

APPENDIX E – GROUNDWATER MONITORING AND CORRECTIVE ACTION

Groundwater Hydrogeologic Monitoring Plan

Supplemental Geologic and Hydrogeologic Information

Supplemental Geologic and Hydrogeologic Information Report No. 2

Groundwater Monitoring Plan-Revision 1

Background Groundwater Monitoring and Statistical Analysis Summary Report

Statistical Analysis Plan-Revision 1

2020 Groundwater Monitoring and Corrective Action Report

2021 Groundwater Monitoring and Corrective Action Report-Revision 1

**GROUNDWATER
HYDROGEOLOGIC MONITORING PLAN**

**COLETO CREEK POWER STATION
FANNIN, TEXAS**

OCTOBER 17, 2017

Prepared for:

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1 INTRODUCTION

1.1 Background

This Hydrogeologic Monitoring Plan (HMP) was prepared to provide background information necessary to support the selection of the groundwater monitoring system to be used to fulfill the groundwater sampling and analysis program requirements of the United States Environmental Protection Agency (USEPA) Final Rule to regulate the disposal of Coal Combustion Residuals (CCR) as solid waste under Subtitle D of the Resource Conservation and Recovery Act [40 *CFR* 257 Subpart D; published in 80 FR 21302-21501, April 17, 2015, referred to hereafter as the CCR Rule] at Coletto Creek Power, LP's coal-fired power station.

The CCR Rule groundwater monitoring and corrective action criteria require an owner or operator of a CCR unit to install a system of monitoring wells and specify procedures for sampling these wells. The groundwater monitoring network must consist of wells that are installed at appropriate locations and depths to provide representative samples from the uppermost aquifer in the immediate vicinity of the CCR unit. The monitoring well network must include at least one (1) upgradient/background well and a minimum of three (3) downgradient wells that represent groundwater that passes the waste boundary of the CCR unit. The well configurations and locations are determined in consideration of site-specific technical information including potential contaminant pathways, and:

1. Aquifer thickness, groundwater flow rate, groundwater flow direction including seasonal and temporal fluctuations in groundwater flow; and
2. Saturated and unsaturated geologic units and fill materials overlying the uppermost aquifer, materials comprising the uppermost aquifer, and materials comprising the confining unit defining the lower boundary of the uppermost aquifer, including, but not limited to, thicknesses, stratigraphy, lithology, hydraulic conductivities, porosities and effective porosities.

This purpose of this HMP is to document the methodologies and rationale behind selection of the Coletto Creek Power Station Primary Ash Pond groundwater monitoring system. The remainder of Section 1 provides a description of the site and a summary of historical investigations. Section 2 details the site geology and hydrogeology. Section 3 provides a discussion of the selected groundwater monitoring network wells and how those wells meet the criteria established in the CCR rules. 40 *CFR* §257.91(f) requires that a qualified professional engineer (PE) certify the groundwater monitoring system. The PE certification is contained in Appendix A.

1.2 Site Location and Description

The Coletto Creek Power Station is a pulverized coal-fired power generation plant commissioned in 1980. The facility is located near the city of Fannin, Goliad County, Texas which is approximately 15 miles southwest of Victoria, Texas (Figure 1). The Coletto Creek Power Station provides electric power to South Texas. A 3,100-acre reservoir was constructed by the Guadalupe-Blanco River Authority to provide cooling water for the plant. CCR, consisting of fly ash and bottom ash, are either shipped off-site for beneficial re-use or managed in an on-site surface impoundment named the Primary Ash Pond. The Primary Ash Pond is subject to the CCR rules codified in 40 *CFR* Part 257 and is the subject of the groundwater monitoring system discussed in this HMP.

1.3 CCR Unit Description

The Primary Ash Pond is an above ground surface impoundment having an approximate surface area of 190 acres and storage capacity of approximately 2,700 acre-feet (S&L, December 1978). Impoundment dikes range from four (4) to 56 feet high with a total length of approximately 12,855 lineal feet. Fly ash from the coal-fired boiler is pneumatically conveyed to storage silos where it is loaded into hopper trucks and transported off-site for beneficial re-use. Off-spec or excess fly ash is sluiced to the Primary Ash Pond. Bottom ash is sluiced directly to the Primary Ash Pond from the boiler. Accumulated bottom ash is then mined from the pond for off-site beneficial re-use.

In the event the water level in the Primary Ash Pond nears maximum operation levels, treated water can be transferred to the adjacent Secondary Pond where it is either allowed to evaporate or is discharged to the Coletto Creek Reservoir as authorized by the facility's Texas Pollutant Discharge Elimination System (TPDES) permit.

1.4 Previous Investigations and Reports

Several groundwater monitoring wells have been installed at the Coletto Creek Power Station for the purpose of evaluating site hydrogeology. Reports that contain well construction details, subsurface geotechnical testing results, and groundwater monitoring data that were reviewed include:

- AECOM, November 2009. Groundwater Quality Assessment Plan, Coletto Creek Power Plant, Fannin, Goliad County, Texas.
- AECOM, March 2012. Geotechnical Stability and Hydraulic Analysis of the Coletto Creek Energy Facility Primary and Secondary Ash Ponds, IPR-GDF SUEZ North America, Coletto Creek Energy Facility, Fannin, Texas.
- Bullock, Bennett & Associates, LLC, October 16, 2017. Letter Report to Rick Coleman of Coletto Creek Power Plant regarding Pneumatic Slug Testing.
- Bullock, Bennett & Associates, LLC, October 10, 2017. Coletto Creek Primary Ash Pond CCR Rule Groundwater Monitoring Sampling and Analysis Plan, Revision 0.
- Sargent & Lundy Engineers, December 1, 1978. "Design and Construction Summary for Coal Pile and Wastewater Pond Facilities, Coletto Creek Power Station Unit 1."

2 GEOLOGY AND HYDROGEOLOGY

A comprehensive subsurface investigation was implemented prior to construction of the Primary Ash Pond and other industrial elements of the facility. A total of approximately 63 soil borings were advanced to depths ranging to approximately 100 ft below ground surface (bgs) at a relatively dense spacing (S&L, December 1978). Soil boring logs and results of geotechnical sampling and analyses were reviewed to identify the site-specific characteristics of the underlying geological strata.

The pre-CCR rule groundwater monitoring network for the Coletto Creek Power Station consisted of eight (8) monitoring wells (MW-1 through MW-8) that were installed in the vicinity of the Primary Ash Pond as it was constructed in 1978. Subsequent investigations in other areas of the power station included installation of additional groundwater monitoring wells that were evaluated during development of this HMP. These additional wells include BV-1, BV-5, BV-10, BV-15, BV-19, BV-21, and BV-22. Construction details and historical groundwater analytical results from these existing wells were reviewed to establish the site's geologic and hydrogeologic setting. Upon review of this information, BBA determined that an additional three wells would be required to address specific requirements outlined in the CCR rules under 40 *CFR* §251.91. Wells MW-9, MW-10, and MW-11 were installed along the downgradient edge of the Primary Ash Pond. The CCR monitoring well network is shown on Figure 2. Non-CCR monitoring wells used to assist in evaluating groundwater flow are shown on Figures 4 through 7.

Soil boring logs advanced as part of historical investigations are contained in their respective reports and available in the Coletto Creek Power Station Operating Record as required. Boring logs for wells MW-9, MW-10, and MW-11 are contained in Appendix B along with the boring logs for the other monitoring wells selected to be part of the CCR groundwater monitoring system as described in Section 3 of this report.

Geologic and hydrogeologic observations from previous and recent investigations are summarized below.

2.1 Geology

2.1.1 Regional Setting

The Coletto Creek Power Station is predominately located on an outcrop of the Lissie Formation (Geologic Atlas of Texas, Revised 1987). The Lissie Formation is approximately middle Pleistocene in age and the atlas describes the formation as “sand, silt, clay and minor amount of gravel; iron oxide and iron manganese nodules common in zone of weathering, in upper part locally calcareous, some concretions of calcium carbonate; surface fairly flat and featureless except for numerous rounded shallow depressions and pimple mounds, lower part very gently rolling.”

The Lissie Formation is generally considered a part of the Houston Group. Within the central coastal plain of Texas, the Lissie Formation's outcrop is a belt ranging from approximately 10 to 20 miles wide (Solis, 1981). Located within the western region of the Gulf Coast Basin, Lissie sediments extend into the subsurface, dipping southeast at 5 to 20 ft per mile (Doering, 1935). Maximum outcrop thickness is estimated to be about 600 ft in East Texas and 400 ft in South Texas (Plummer, 1932).

2.1.2 Site Geology

Subsurface investigations at the site identified the following three primary geologic units beneath the Primary Ash Pond surface impoundment. The following general unit descriptions are based on those presented in AECOM (2009).

Unit 1 - This lithologic stratum consists of cohesive, lower permeability soils, primarily sandy clay and clayey sand with intermittent layers of silty clay. Caliche and calcareous materials (nodules, streaks) are also present, generally in the lower portion of the unit. Unit 1 appears laterally continuous across the area and extends from the original ground surface to depths

of up to 25 ft. This unit varies in thickness depending on site location. Below the Primary Ash Pond, Unit 1 varies in thickness from approximately 11 to 25 ft.

Unit 2 - This unit is the uppermost, permeable water-bearing zone below the Coletto Creek Power Station. It also appears laterally continuous below the site, with a thickness that varies from about 40 to 54 ft. Unit 2 is comprised primarily of sand and silty sand, with intermittent layers of clay bearing soils with varying thickness. The cohesive layers appear discontinuous. The presence of varying silt and clay content within the sandy soils of Unit 2 likely creates variability in the hydraulic conductivity properties of this stratum. Mineralized zones containing caliche and calcareous nodules are prominent within Unit 2.

Unit 3 - Unit 3 underlies Unit 2 forming a basal clay stratum that appears laterally continuous below the area. The soils are primarily clay and silty clay, with some sandy clay zones. Unit 3 is at least 29 ft thick and was not completely penetrated by most geotechnical borings in the area. The thickness and clayey soils of this stratum likely restrict downward migration of groundwater from Unit 2.

The relative positions of the above-described geologic units are illustrated in the generalized geologic cross sections provided in Figure 3. The locations of these cross sections in relation to the Primary Ash Pond are shown on Figure 2.

2.2 Hydrogeology

In order to supplement historical hydrogeologic data, BBA performed pneumatic slug testing at several monitoring wells across the site on June 21-22, 2017. Slug tests are single-well aquifer tests used to estimate horizontal hydraulic conductivity (K_r) and other characteristics of the uppermost aquifer beneath the Primary Ash Pond (Bennett, 2017). The results of that testing are summarized below.

2.2.1 Uppermost Aquifer

40 *CFR* §257.53 defines an aquifer as “a geologic formation, group of formations, or portion of a formation capable of yielding usable quantities of groundwater to wells or springs.” The

uppermost aquifer at the site corresponds to geologic Unit 2. As noted above, Unit 2 is characterized as consisting mostly of sand and silty sand with intermittent discontinuous layers of clay. Mineralized zones containing caliche and calcareous nodules are also prominent throughout this unit. The top of the aquifer is approximately 11 to 25 ft bgs and is 40 to 54 ft thick.

2.2.2 Lower Limit of Aquifer

The lower limit of the aquifer is confined by a stratum consisting primarily of clay and silty clay with periodic sandy clay zones corresponding to geologic Unit 3. Although none of the borings fully penetrated this unit, it is a minimum of 29 ft thick in the area of the Primary Ash Pond. The thickness and nature of this basal unit likely restrict potential downward migration of groundwater from the overlying aquifer.

2.2.3 Hydraulic Conductivity

Pneumatic slug tests were performed on June 21-22, 2017 at six monitoring wells partially penetrating the uppermost aquifer surrounding the Primary Ash Pond. Groundwater in the uppermost aquifer flows to the east and southeast toward Sulphur Creek and the Coletto Creek Reservoir. Three monitoring wells (BV-5, BV-21, BV-22) upgradient or west of the Primary Ash Pond and three wells (MW-9, MW-10, MW-11) downgradient of the Primary Ash Pond were selected for testing. Results of the slug testing from each well are listed in Table 1 for different units of equivalency.

The geometric mean K_r value from all slug tests is 9.46 ft/day (3.35×10^{-3} cm/sec). The overall minimum K_r of 1.45 ft/day (5.14×10^{-4} cm/sec) was estimated for MW-10 and the overall maximum K_r of 38.7 ft/day (1.37×10^{-2} cm/sec) for BV-22. The K_r values from wells upgradient and west of the primary ash pond are higher than the K_r values estimated downgradient of the primary ash pond. The variability in K_r values is likely due to discontinuous cohesive clay soils and varying silt and clay content within the sandy soils.

The hydraulic conductivities for each of the wells tested are within the expected range typical of unconsolidated sandy aquifers. According to Heath (1983), the expected total and effective porosities for a sandy aquifer are approximately 25% and 20%, respectively.

2.2.4 Groundwater Elevations, Flow Direction, and Velocity

Groundwater from wells MW-1 through MW-8 are monitored on a semi-annual basis and reflects seasonal variation of groundwater level and flow trends. Groundwater was originally measured at elevations ranging from 85 to 95 ft when wells MW-1 through MW-8 were first installed in the 1970s. After construction of the Coletto Creek Reservoir, the potentiometric surface rose to near current-day levels which ranged from approximately 100 ft to 115 ft NAVD88 during the most recent groundwater sampling event conducted in May 2017 (BBA, September 2017). The monitoring data indicate minimal seasonal variation of water levels; however, as would be expected water levels fluctuate based on drought conditions with levels ranging to approximately 5 ft lower. Current levels are approximately 2 ft to 5 ft lower than maximums observed in 2010.

The 40 *CFR* Part 257 monitoring well network consists of nine monitoring wells (MW-4, MW-5, MW-6, MW-8, MW-9, MW-10, MW-11, BV-5, and BV-21) installed in the uppermost aquifer as shown on Figure 2. Water levels in the 40 *CFR* Part 257 monitoring well network were measured during eight events from March to July 2017 in order to evaluate seasonal water level fluctuations across the site. A summary of groundwater level measurements for the 40 *CFR* Part 257 monitoring well network is provided in Table 2.

Groundwater flow occurs to the east and southeast across the Primary Ash Pond toward the Coletto Creek Reservoir (Figures 4 through 7). The horizontal hydraulic gradient was determined between wells MW-4 and MW-10 near the northern boundary of the Primary Ash Pond and between wells MW-8 and MW-6 near the southern boundary. The slope of the potentiometric surface between these two well pairs has averaged 0.0027 ft/ft and 0.0029 ft/ft, respectively from March 2017 through July 2017.

Groundwater velocity can be calculated using the following formula:

$$V = K_r (dh/dl)/n_e$$

where V is velocity (ft/day), K_r is hydraulic conductivity (ft/day), dh/dl is the hydraulic gradient (ft/ft), and n_e is the effective porosity of the aquifer (Heath, 1983). An effective porosity of 20% will be used in these calculations (based on typical values for clayey sand) and the calculated geometric mean hydraulic conductivity value as determined from monitoring wells surrounding the Primary Ash Pond (Bennett, 2017)

The average linear velocity through the uppermost aquifer between wells MW-4 and MW-10 is determined as follows:

$$V = 9.46 \text{ ft/day} (0.0027 \text{ ft/ft})/0.20$$

$$V = 0.13 \text{ ft/day}$$

The average linear velocity through the uppermost aquifer between wells MW-8 and MW-6 was calculated as follows:

$$V = 9.46 \text{ ft/day} (0.0029 \text{ ft/ft})/0.20$$

$$V = 0.14 \text{ ft/day}$$

Groundwater potentiometric surface maps for the above-referenced sampling events are included in this report as Figures 4, 5, 6, and 7.

3 GROUNDWATER MONITORING

In 2015, BBA began an assessment of the existing monitoring well networks at Coletto Creek Power Station with respect to the existing CCR units. Included in the assessment was a review of the current placement and number of monitoring wells with respect to the Primary Ash Pond as well as potential locations for new monitoring wells, as appropriate. The discussion below summarizes the results of the assessment and defines the CCR groundwater monitoring network.

3.1 CCR Monitoring Well Network

The 40 *CFR* Part 257 monitoring well network consists of nine monitoring wells installed in the uppermost aquifer. These wells include three upgradient/background wells (BV-5, BV-21, and MW-8) and six downgradient wells (MW-4, MW-5, MW-6, MW-9, MW-10, and MW-11) as shown on Figure 2. Boring logs and monitoring well construction reports for the groundwater monitoring system are provided in Appendix B. Details regarding the procedures and techniques used to fulfill the groundwater sampling and analysis program requirements are found in the *Sampling and Analysis Plan* for the site (BBA, October 2017). Well depths, well screen intervals, depth to groundwater, and monitored units are summarized in Table 3.

3.2 Summary of Groundwater Monitoring Systems

The groundwater monitoring system for the Coletto Creek Primary Ash Pond meets the performance standard set in §257.91 of the Final Rule. Three existing monitoring wells (MW-8, BV-5, and BV-21) have been selected that are at appropriate locations and depths to yield groundwater samples from the uppermost aquifer that accurately represent groundwater that has not been affected by leakage from the CCR units or other aspects of plant operations. Use of three background monitoring wells exceeds the minimum of one upgradient/background well required by §257.91(c)(1).

The six downgradient monitoring wells (MW-4, MW-5, MW-6, MW-9, MW-10, and MW-11) are installed as close as possible to the perimeter of the Primary Ash Pond to ensure that samples reflect groundwater quality at the pond boundary. This number exceeds the three wells required in §257.91(c)(1).

All monitoring wells were installed with screens and casing that maintains the integrity of the borehole. Well screens were packed with sand and annular spaces above the screen between the borehole and casing were sealed to minimize potential for cross contamination of groundwater samples. Documentation of the design, installation, and development of monitoring wells included in the groundwater monitoring system are available in the operating record for the Coletto Creek Power Station. The monitoring system for the Primary Ash Pond has been certified by a qualified professional engineer (see Appendix A).

4 REFERENCES

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TABLES

Table 1. Hydraulic Conductivity Testing Results
Hydrogeologic Monitoring Plan
Coletto Creek Power, LP CCR Rule Groundwater Monitoring
CCR Unit Name: Coletto Creek Primary Ash Pond
Unit ID: 141

| Monitoring Well | K_r (ft/day) | K_r (m/day) | K_r (cm/sec) | K_r (ft/sec) |
|------------------------|-------------------------------|------------------------------|-------------------------------|-------------------------------|
| BV-5 | 24.6 | 7.49 | 8.68E-03 | 2.84E-04 |
| BV-21 | 37.8 | 11.5 | 1.34E-02 | 4.38E-04 |
| BV-22 | 38.7 | 11.8 | 1.37E-02 | 4.48E-04 |
| MW-9 | 3.3 | 1.01 | 1.17E-03 | 3.82E-05 |
| MW-10 | 1.45 | 0.443 | 5.14E-04 | 1.68E-05 |
| MW-11 | 4.17 | 1.27 | 1.47E-03 | 4.82E-05 |

Table 2. Groundwater Levels, March - July, 2017
Hydrogeologic Monitoring Plan
Coletto Creek Power, LP CCR Rule Groundwater Monitoring
CCR Unit Name: Coletto Creek Primary Ash Pond
Unit ID: 141

| Well ID | Top of Casing Well Elevation (ft) (1) | Date Measured | Depth to Water Below Top of Casing (ft) | Water Level Elevation |
|----------------|--|----------------------|--|----------------------------------|
| MW-4 | 137.71 | 3/28/2017 | 29.25 | 108.46 |
| | | 5/9/2017 | 28.94 | 108.77 |
| | | 5/15/2017 | 28.93 | 108.78 |
| | | 6/6/2017 | 28.83 | 108.88 |
| | | 6/20/2017 | 28.94 | 108.77 |
| | | 6/22/2017 | 29.02 | 108.69 |
| | | 7/10/2017 | 29.11 | 108.6 |
| | | 7/18/2017 | 29.15 | 108.56 |
| MW-5 | 122.31 | 3/30/2017 | 20.94 | 101.37 |
| | | 5/10/2017 | 20.3 | 102.01 |
| | | 5/16/2017 | 20.37 | 101.94 |
| | | 6/8/2017 | 20.61 | 101.7 |
| | | 6/21/2017 | 20.87 | 101.44 |
| | | 6/26/2017 | 21 | 101.31 |
| | | 7/11/2017 | 21.21 | 101.1 |
| | | 7/19/2017 | 21.47 | 100.84 |
| MW-6 | 119.22 | 3/29/2017 | 15.76 | 103.46 |
| | | 5/11/2017 | 15.7 | 103.52 |
| | | 5/16/2017 | 15.68 | 103.54 |
| | | 6/7/2017 | 15.92 | 103.3 |
| | | 6/22/2017 | 16.34 | 102.88 |
| | | 6/28/2017 | 16.33 | 102.89 |
| | | 7/12/2017 | 16.76 | 102.46 |
| | | 7/20/2017 | 16.92 | 102.3 |
| MW-8 | 134.72 | 3/28/2017 | 22.6 | 112.12 |
| | | 5/9/2017 | 21.29 | 113.43 |
| | | 5/15/2017 | 21.3 | 113.42 |
| | | 6/6/2017 | 21.25 | 113.47 |
| | | 6/20/2017 | 22.08 | 112.64 |
| | | 6/27/2017 | 22.12 | 112.6 |
| | | 7/10/2017 | 22.5 | 112.22 |
| | | 7/18/2017 | 22.67 | 112.05 |

Table 2. Groundwater Levels, March - July, 2017
Hydrogeologic Monitoring Plan
Coletto Creek Power, LP CCR Rule Groundwater Monitoring
CCR Unit Name: Coletto Creek Primary Ash Pond
Unit ID: 141

| Well ID | Top of Casing Well Elevation (ft) (1) | Date Measured | Depth to Water Below Top of Casing (ft) | Water Level Elevation |
|----------------|--|----------------------|--|----------------------------------|
| MW-9 | 132.3 | 3/30/2017 | 28.31 | 103.99 |
| | | 5/10/2017 | 27.75 | 104.55 |
| | | 5/17/2017 | 29.87 | 102.43 |
| | | 6/7/2017 | 28.2 | 104.1 |
| | | 6/21/2017 | 28.65 | 103.65 |
| | | 6/26/2017 | 28.83 | 103.47 |
| | | 7/11/2017 | 29.12 | 103.18 |
| | | 7/19/2017 | 29.48 | 102.82 |
| MW-10 | 130.4 | 3/30/2017 | 27.9 | 102.5 |
| | | 5/9/2017 | 27.5 | 102.9 |
| | | 5/16/2017 | 27.57 | 102.83 |
| | | 6/8/2017 | 27.68 | 102.72 |
| | | 6/21/2017 | 27.84 | 102.56 |
| | | 6/26/2017 | 27.97 | 102.43 |
| | | 7/11/2017 | 28.14 | 102.26 |
| | | 7/19/2017 | 28.26 | 102.14 |
| MW-11 | 118.66 | 5/10/2017 | 14.3 | 104.36 |
| | | 5/16/2017 | 14.39 | 104.27 |
| | | 6/7/2017 | 14.56 | 104.1 |
| | | 6/21/2017 | 14.85 | 103.81 |
| | | 6/26/2017 | 14.94 | 103.72 |
| | | 7/11/2017 | 15.2 | 103.46 |
| | | 7/19/2017 | 15.31 | 103.35 |
| BV-5 | 135.8 | 3/29/2017 | 29.35 | 106.45 |
| | | 5/11/2017 | 29.11 | 106.69 |
| | | 5/16/2017 | 29.1 | 106.7 |
| | | 6/7/2017 | 29.92 | 105.88 |
| | | 6/20/2017 | 29.18 | 106.62 |
| | | 6/27/2017 | 29.25 | 106.55 |
| | | 7/12/2017 | 29.32 | 106.48 |
| | | 7/18/2017 | 29.41 | 106.39 |

Table 2. Groundwater Levels, March - July, 2017
Hydrogeologic Monitoring Plan
Coletto Creek Power, LP CCR Rule Groundwater Monitoring
CCR Unit Name: Coletto Creek Primary Ash Pond
Unit ID: 141

| Well ID | Top of Casing Well Elevation (ft) (1) | Date Measured | Depth to Water Below Top of Casing (ft) | Water Level Elevation |
|----------------|--|----------------------|--|----------------------------------|
| BV-21 | 131.17 | 3/28/2017 | 19.25 | 111.92 |
| | | 5/9/2017 | 18.54 | 112.63 |
| | | 5/17/2017 | 18.52 | 112.65 |
| | | 6/6/2017 | 18.44 | 112.73 |
| | | 6/20/2017 | 18.76 | 112.41 |
| | | 6/27/2017 | 18.71 | 112.46 |
| | | 7/10/2017 | 18.86 | 112.31 |
| | | 7/18/2017 | 18.9 | 112.27 |

Notes:

ft = feet

1. Top of Casing Elevations are referenced to NAVD88.

Table 3. CCR Monitoring Well Construction Details
Hydrogeologic Monitoring Plan
Coletto Creek Power, LP CCR Rule Groundwater Monitoring
CCR Unit Name: Coletto Creek Primary Ash Pond
Unit ID: 141

| Well ID | MW-4 | MW-5 | MW-6 | MW-8 | MW-9 | MW-10 | MW-11 | BV-5 | BV-21 |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Well Location Latitude | 28° 43' 17.29" N | 28° 43' 13.97" N | 28° 43' 46.56" N | 28° 43' 49.07" N | 28° 43' 26.90" N | 28° 43' 07.64" N | 28° 43' 37.01" N | 28° 43' 16.89" N | 28° 43' 31.90" N |
| Well Location Longitude | 97° 12' 52.27" W | 97° 12' 17.38" W | 97° 12' 17.38" W | 97° 12' 54.39" W | 97° 12' 19.18" W | 97° 12' 28.54" W | 97° 12' 18.36" W | 97° 13' 12.03" W | 97° 13' 00.55" W |
| Well Construction Material | PVC | PVC | PVC | PVC | PVC | PVC | PVC | PVC | PVC |
| Well Diameter (inches) | 4 | 4 | 4 | 4 | 2 | 2 | 2 | 2 | 2 |
| Top of Casing Well Elevation (ft) ⁽¹⁾ | 137.71 | 122.31 | 119.22 | 134.72 | 132.3 | 130.4 | 118.66 | 135.8 | 131.17 |
| Well Depth Below Ground Surface (ft) ⁽²⁾ | 70.1 | 59.27 | 61.15 | 56.88 | 60 | 60 | 49 | 40 | 40 |
| Screen Length (ft) | 19.6 | 19.8 | 19.9 | 19.9 | 20 | 20 | 20 | 10 | 10 |
| Top of Screen Elevation (ft) ⁽³⁾ | 83.8 | 80.1 | 75.1 | 94.8 | 89.3 | 87.6 | 86.8 | 103 | 98.4 |
| Bottom of Screen Elevation (ft) ⁽³⁾ | 64.2 | 60.3 | 55.2 | 74.9 | 69.3 | 67.6 | 66.8 | 93 | 88.4 |
| Well Stick-up Above Ground Surface (ft) | 3.41 | 2.74 | 2.87 | 2.94 | 3 | 2.8 | 2.86 | 2.8 | 2.77 |
| Hydraulic Position of Well ⁽⁴⁾ | D | D | D | U | D | D | D | B | U |

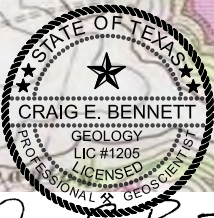
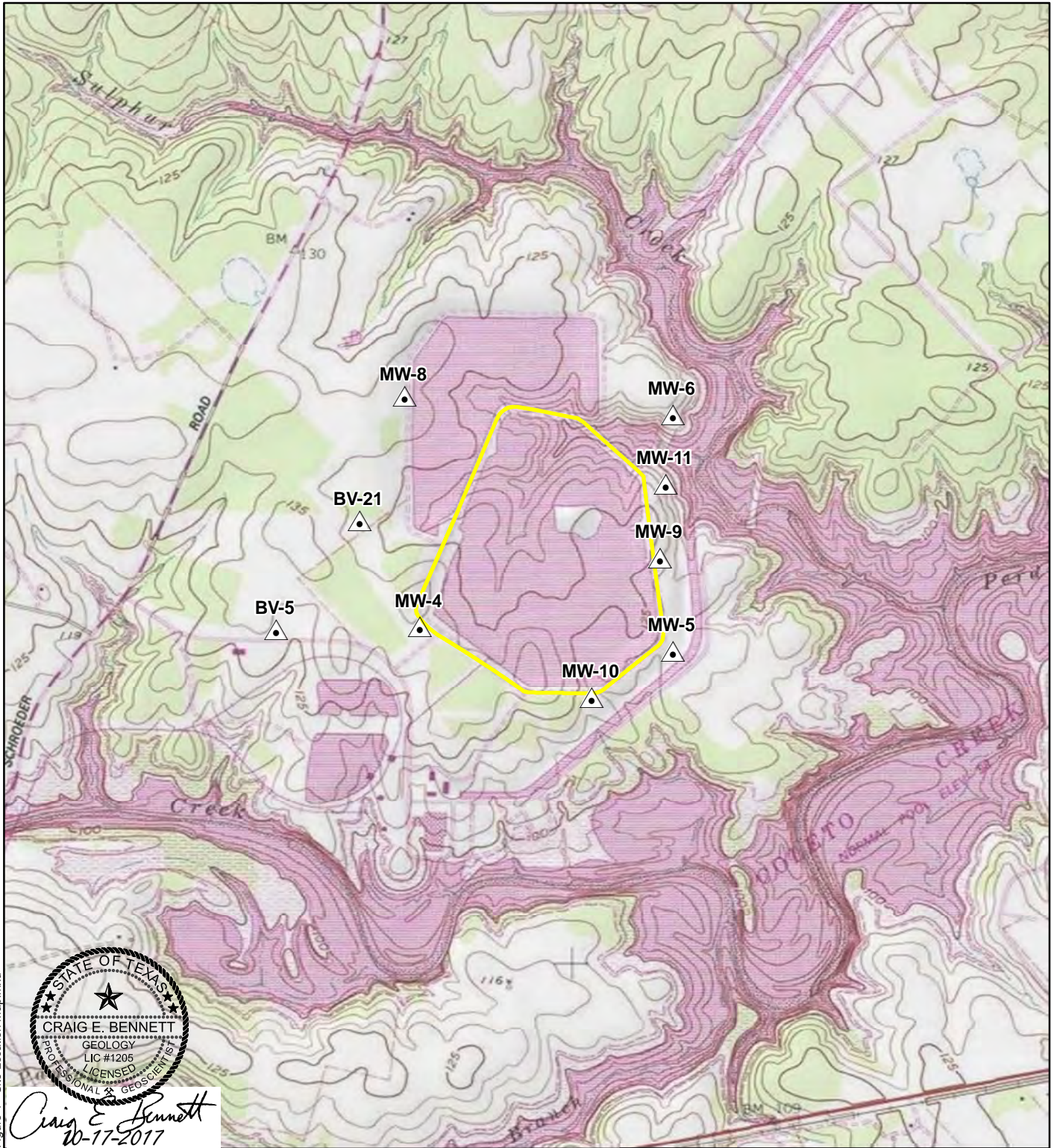
Notes:

PVC = polyvinyl chloride

ft = feet

1. Top of Casing Elevations are referenced to NAVD88.
2. Well Depth Below Ground Surface referenced to ground surface at time of well construction.
3. Top and Bottom of Screen Elevations reported as listed on well construction forms.
4. Background (B), upgradient (U), or downgradient (D)

FIGURES

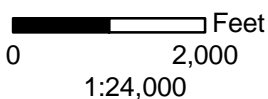


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10-17-2017

Explanation

- ▲ Monitoring Well
- CCR Monitored Unit

Refs/Notes:
DRG of USGS topo quad from
ArcGIS Online Server.



Coletto Creek Power, LP

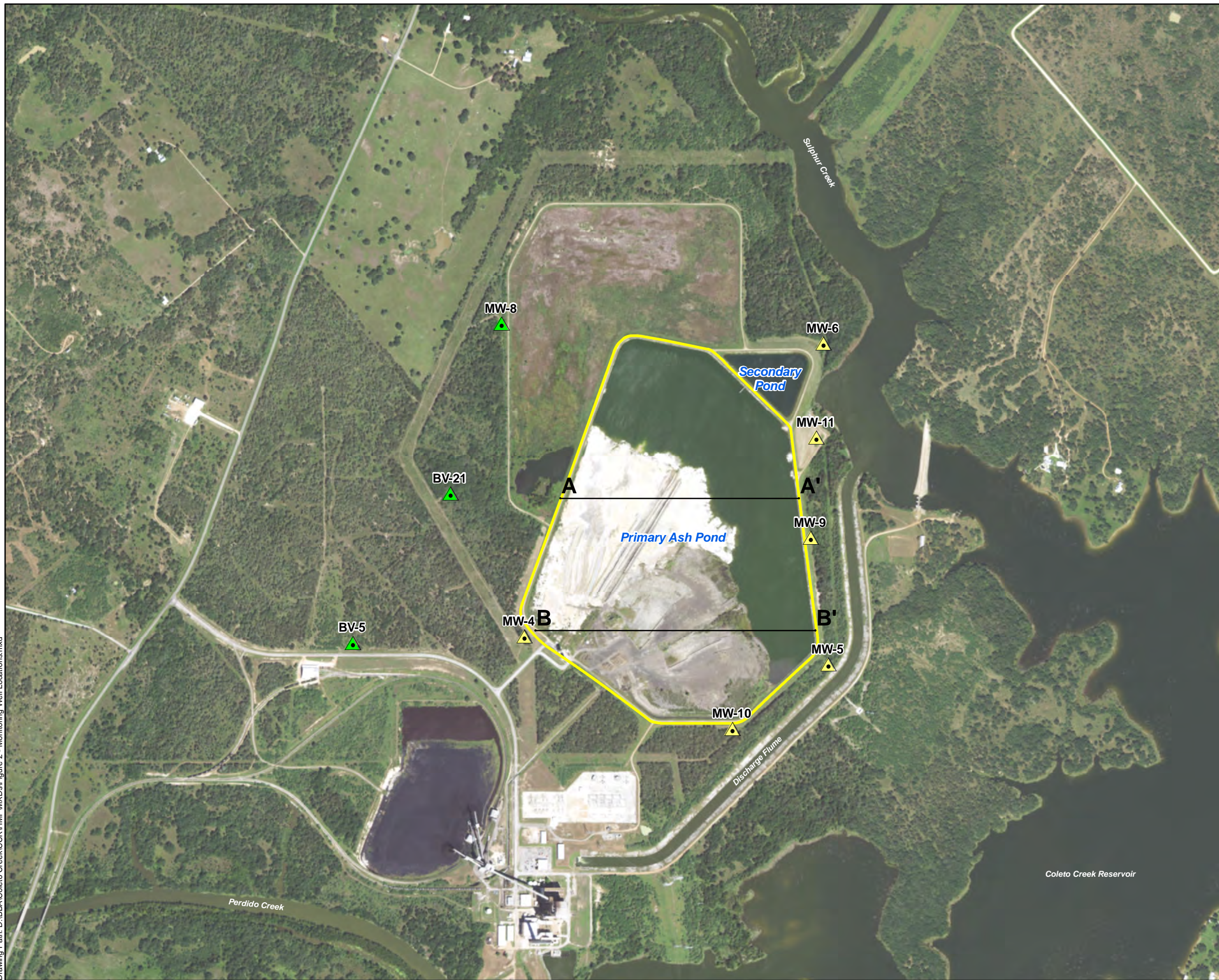
**Figure 1
Site Location Map**

| | | |
|-----------------|--------------|-----------|
| PROJECT: 17251A | BY: EEF | REVISIONS |
| DATE: Sept 2017 | CHECKED: CEB | |




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Engineering and Geoscience
Texas Registrations: Engineering F-8542, Geoscience 50127

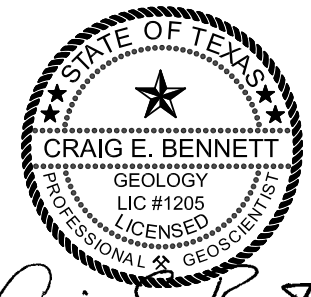
Plot Date: 10/12/2017 - 6:55:07 AM, Plotted by: E.Ficker
Drawing Path: D:\BBA\Coletto Creek\CCCR\HMP\MXDs\Figure 1 - Site Location Map.mxd

Plot Date: 10/13/2017 - 6:10:57 PM. Plotted by: E.Ficker
 Drawing Path: D:\BBA\Coletto Creek\CCR\HMP\MXDs\Figure 2 - Monitoring Well Locations.mxd



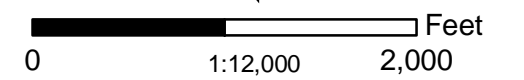
Explanation

-  Downgradient CCR Monitoring Well
-  Upgradient/Background CCR Monitoring Well
-  CCR Monitored Unit



Craig E. Bennett
 10-17-2017

Ref: Orthoimagery from ArGIS World Imagery Server

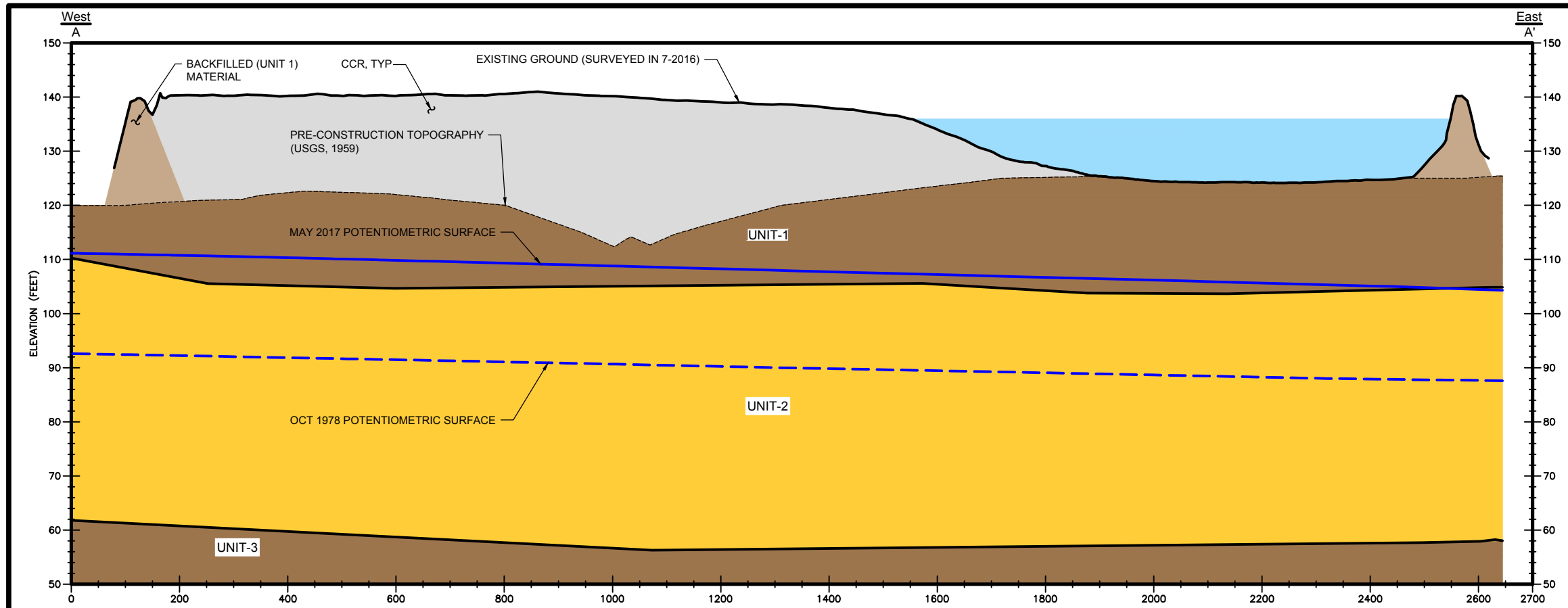


Coletto Creek Power, LP

**Figure 2
 Monitoring Well Locations**

| | | |
|----------------|--------------|-----------|
| PROJECT: 17258 | BY: EEF | REVISIONS |
| DATE: Oct 2017 | CHECKED: CEB | |

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 Texas Registrations: Engineering F-8542, Geoscience 50127



PROFILE A-A' (LOOKING NORTH)
SCALE: 1"=120'(H), 1"=12'(V)

NOTES:

July 2016 bathymetry and topographic surface data collected by Naismith Marine Services of Corpus Christi, Texas.

Unit 1 thickness based on EXHIBIT 3: BORING LOCATION PLAN AND THICKNESS CONTOURS OF INSITU COHESIVE SOILS from Sargent & Lundy (1978).

Original pond bottom depths and site stratigraphy are estimated and interpolated based on data in Sargent & Lundy (1978), 1959 USGS pre-construction topographic data, AECOM (2009), and various post-construction borings located outside of pond footprint.

October 1978 potentiometric surface estimated from data in Sargent & Lundy (1978).

May 2017 potentiometric surface based on groundwater data collected by Coletto Creek Power.

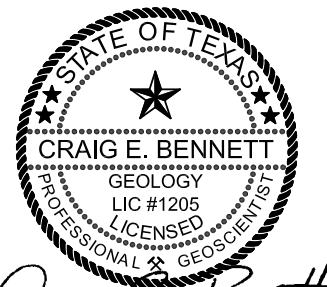
UNIT DESCRIPTIONS:

Unit 1 - Sandy CLAY and Silty CLAY. Surficial unit.

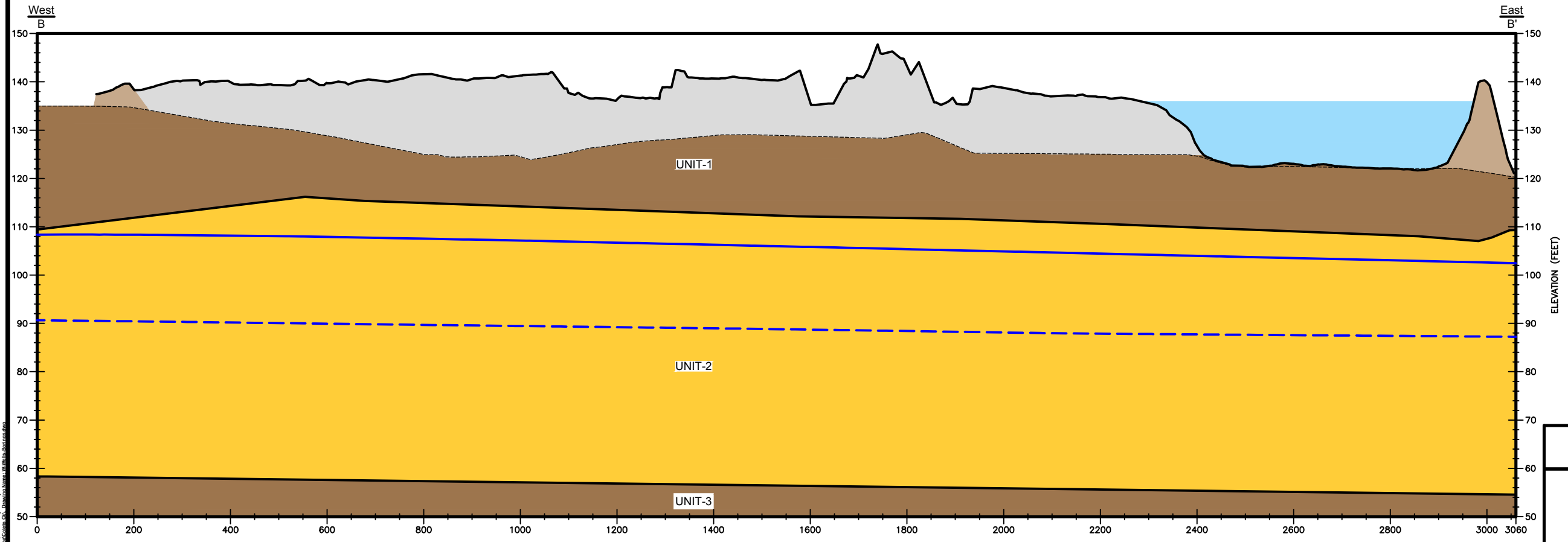
Unit 2 - Sand and Silty SAND with caliche and CLAY/Sandy CLAY lenses. First groundwater-bearing unit.

Unit 3 - CLAY and Silty CLAY. Basal unit.

Unit descriptions based on AECOM (2009).



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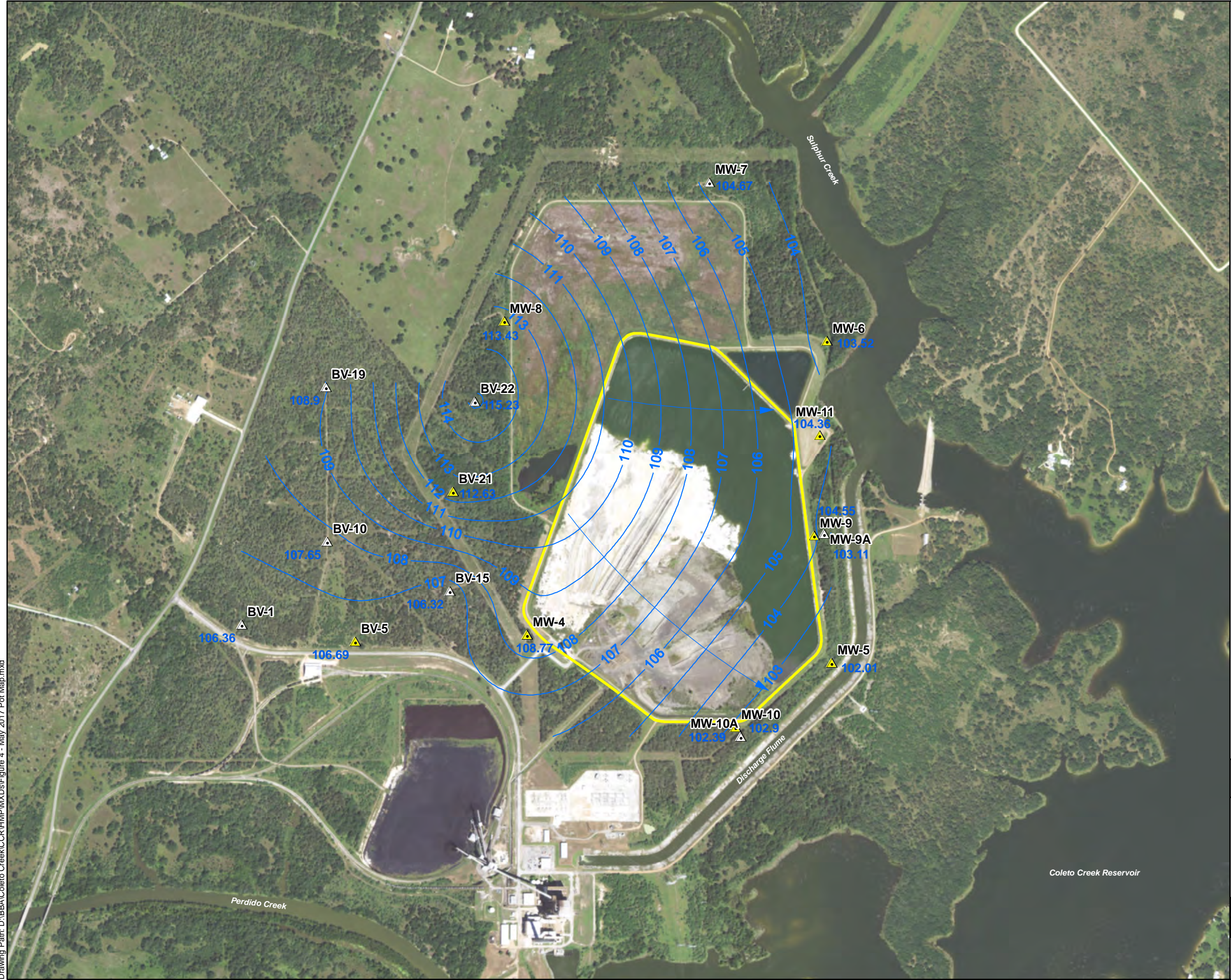


PROFILE B-B' (LOOKING NORTH)
SCALE: 1"=120'(H), 1"=12'(V)

| | | | |
|---|----------------|-------------|--------------|
| Coletto Creek Power, LP | | | |
| FIGURE 3 | | | |
| GENERALIZED GEOLOGIC CROSS SECTIONS A-A' AND B-B' | | | |
| PROJECT: 17258 | DATE: OCT 2017 | BY: RCAD-RR | CHECKED: CBB |
| Bullock, Bennett & Associates, LLC ENGINEERING AND GEOSCIENCE Texas Registrations: Engineering F-8542, Geoscience 50127 | | | |

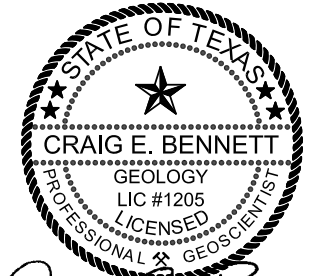
File Date: 10/10/17 - 8:46am. Plotted by: rcad. Project: 17258 - Coletto Creek Power, LP. Profile: A-A' and B-B'. Scale: 1"=120'(H), 1"=12'(V).

Plot Date: 10/12/2017 - 7:02:05 AM. Plotted by: E. Ficker
 Drawing Path: D:\BBA\Coletto Creek\CCR\HMP\MXDs\Figure 4 - May 2017 Pot. Map.mxd



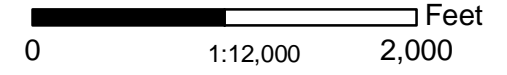
Explanation

- CCR Rule Monitoring Well
- Non-CCR Rule Monitoring Well
- May 2017 Potentiometric Surface Elevation Contour (ft. MSL)
- CCR Monitored Unit
- Groundwater Flow Direction



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 10-17-2017

Ref: Orthoimagery from ArGIS World Imagery Server



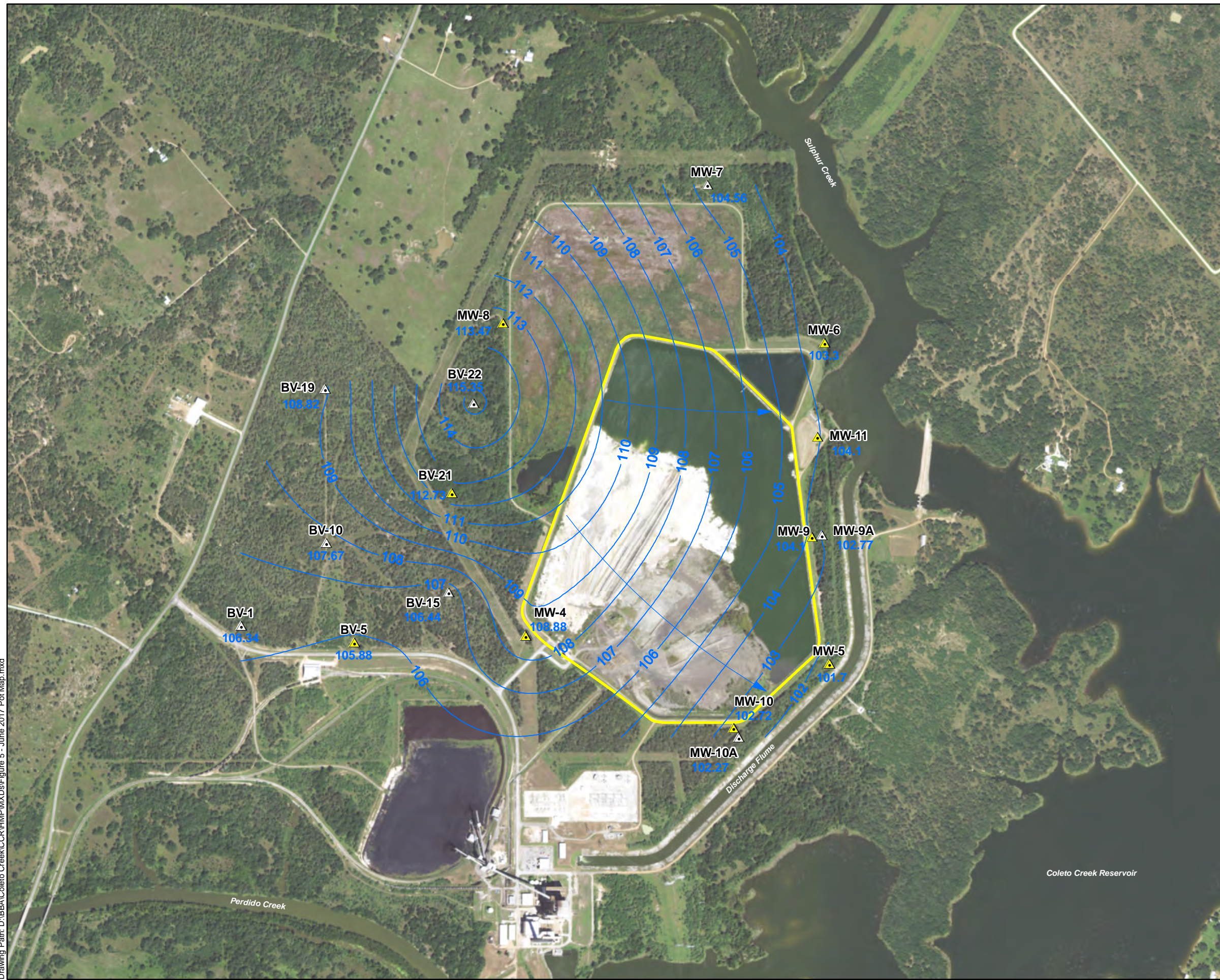
Coletto Creek Power, LP

Figure 4
May 9-11, 2017
Potentiometric Surface Map
Uppermost Aquifer Unit

| | | |
|----------------|--------------|-----------|
| PROJECT: 17258 | BY: EEF | REVISIONS |
| DATE: Oct 2017 | CHECKED: CEB | |

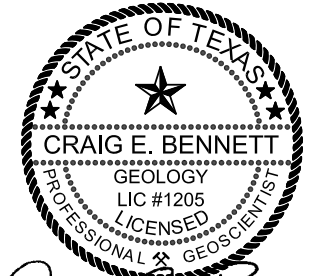
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 Engineering and Geoscience
 Texas Registrations: Engineering F-8542, Geoscience 50127

Plot Date: 10/12/2017 - 7:02:34 AM. Plotted by: E.Ficker
 Drawing Path: D:\BBA\Coletto Creek\CCR\HMP\MXDs\Figure 5 - June 2017 Pot Map.mxd



Explanation

- CCR Rule Monitoring Well
- Non-CCR Rule Monitoring Well
- June 2017 Potentiometric Surface Elevation Contour (ft. MSL)
- CCR Monitored Unit
- Groundwater Flow Direction



Craig E. Bennett
 10-17-2017

Ref: Orthoimagery from ArGIS World Imagery Server



0 1:12,000 2,000 Feet

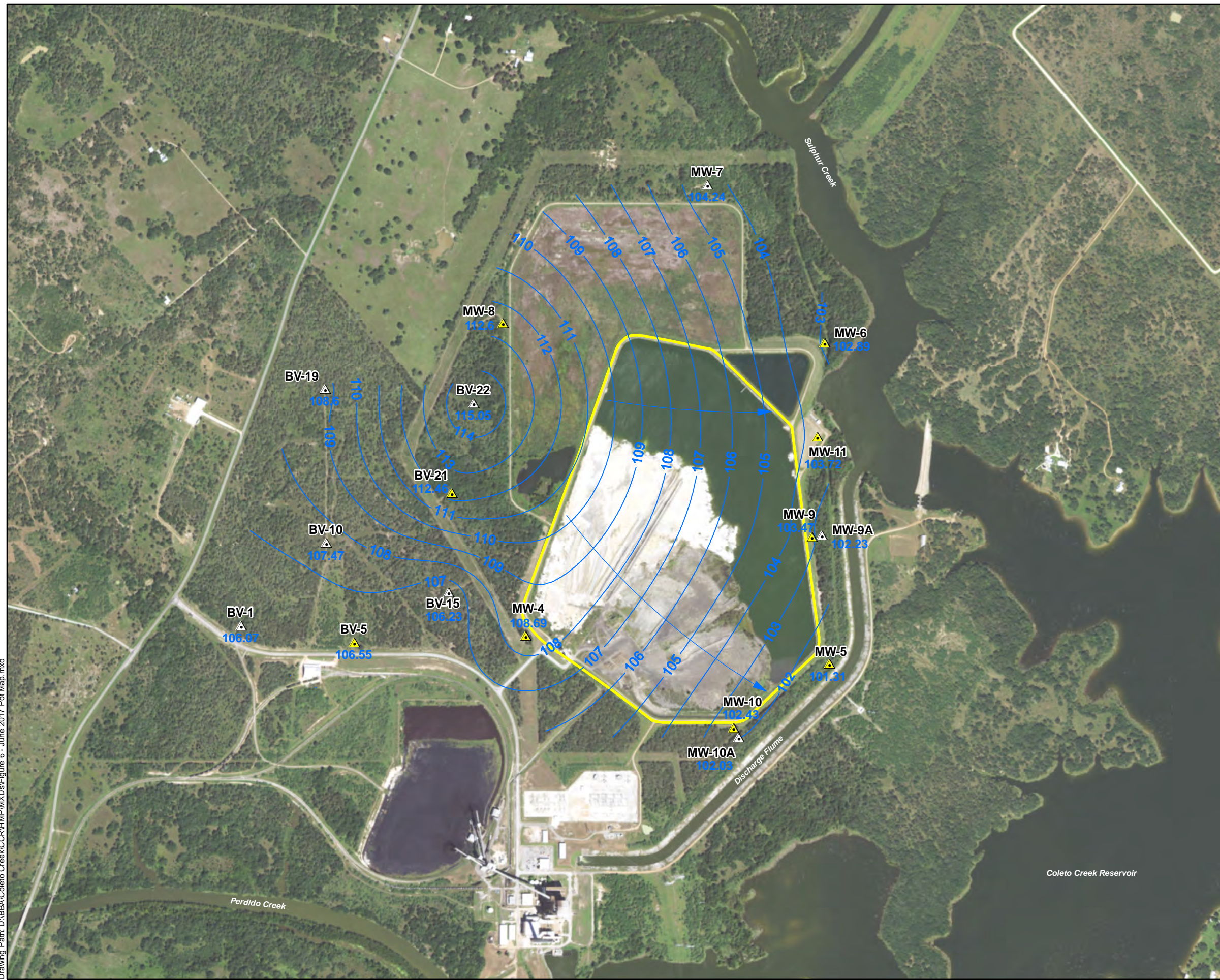
Coletto Creek Power, LP

Figure 5
June 6-8, 2017
Potentiometric Surface Map
Uppermost Aquifer Unit

| | | |
|----------------|--------------|-----------|
| PROJECT: 17258 | BY: EEF | REVISIONS |
| DATE: Oct 2017 | CHECKED: CEB | |

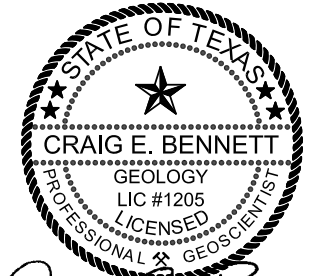
Bullock, Bennett & Associates, LLC
 Engineering and Geoscience
 Texas Registrations: Engineering F-8542, Geoscience 50127

Plot Date: 10/12/2017 - 7:02:59 AM. Plotted by: E.Ficker
 Drawing Path: D:\BBA\Coletto Creek\CCR\HMP\MXDs\Figure 6 - June 2017 Pot Map.mxd



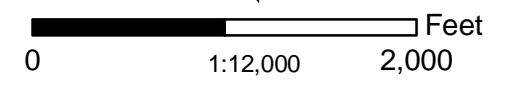
Explanation

- CCR Rule Monitoring Well
- Non-CCR Rule Monitoring Well
- June 2017 Potentiometric Surface Elevation Contour (ft. MSL)
- CCR Monitored Unit
- Groundwater Flow Direction



Craig E. Bennett
 10-17-2017

Ref: Orthoimagery from ArGIS World Imagery Server



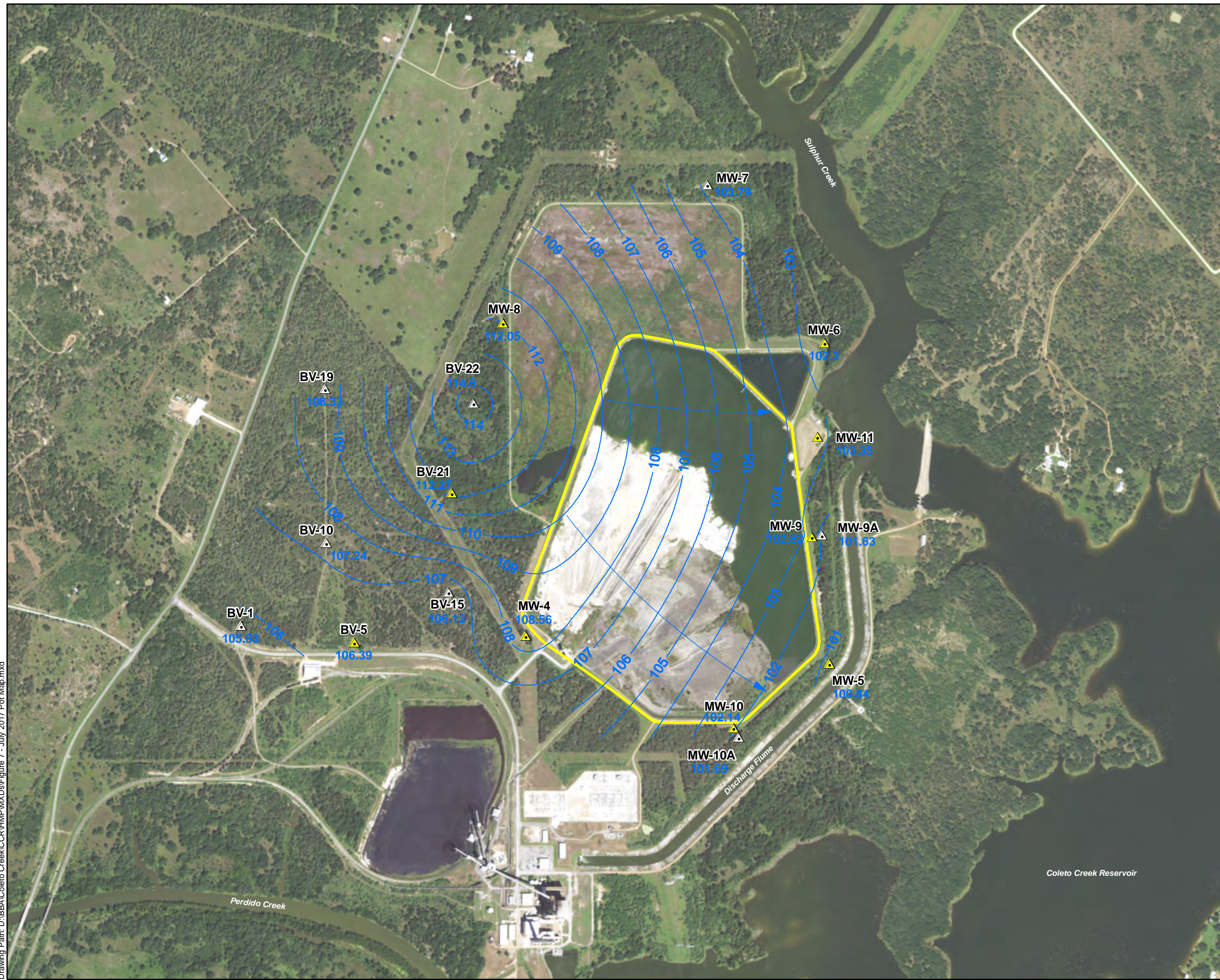
Coletto Creek Power, LP

Figure 6
June 26-28, 2017
Potentiometric Surface Map
Uppermost Aquifer Unit

| | | |
|----------------|--------------|-----------|
| PROJECT: 17258 | BY: EEF | REVISIONS |
| DATE: Oct 2017 | CHECKED: CEB | |

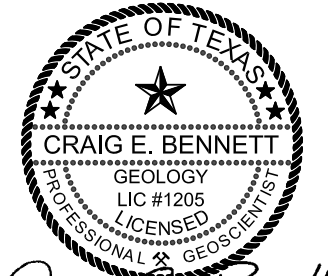
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Plot Date: 10/12/2017 - 7:03:30 AM. Plotted by: E.Ficker
 Drawing Path: D:\BBA\Coletto Creek\CCR\HMP\MXDs\Figure 7 - July 2017 Pot. Map.mxd



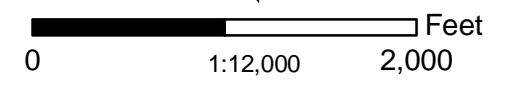
Explanation

- CCR Rule Monitoring Well
- Non-CCR Rule Monitoring Well
- July 2017 Potentiometric Surface Elevation Contour (ft. MSL)
- CCR Monitored Unit
- Groundwater Flow Direction



Craig E. Bennett
 10-17-2017

Ref: Orthoimagery from ArGIS World Imagery Server



Coletto Creek Power, LP

Figure 7
July 18-20, 2017
Potentiometric Surface Map
Uppermost Aquifer Unit

| | | |
|----------------|--------------|-----------|
| PROJECT: 17258 | BY: EEF | REVISIONS |
| DATE: Oct 2017 | CHECKED: CEB | |

Bullock, Bennett & Associates, LLC
 Engineering and Geoscience
 Texas Registrations: Engineering F-8542, Geoscience 50127

APPENDIX A
Monitoring Well System Certification
By A Qualified Professional Engineer

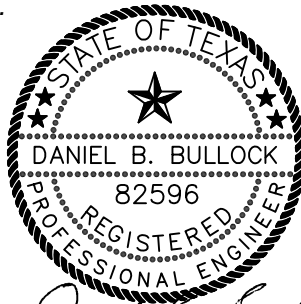
40 CFR Part 257.91(f) Groundwater Monitoring System Certification
CCR Unit: Coletto Creek Power, LP; Coletto Creek Power Station; Coletto Creek Primary Ash Pond

In accordance with Title 40 Code of Federal Regulations (40 CFR) Part 257, Subpart D, Section 257.91(f), the owner or operator of a coal combustion residual (CCR) unit must obtain a certification from a qualified professional engineer stating that the groundwater monitoring system at the CCR unit has been designed and constructed to meet the requirements of 40 CFR § 257.91. If the groundwater monitoring system includes the minimum number of monitoring wells specified in 40 CFR § 257.91(c)(1), the certification must document the basis supporting use of the minimum number of monitoring wells. Further, in accordance with 40 CFR § 257.91(e)(1), when completing the groundwater monitoring system certification, the qualified professional engineer must be given access to documentation regarding the design, installation, development, and decommissioning of any monitoring wells, piezometers and other measurement, sampling, and analytical devices.

The groundwater monitoring system designed and constructed for the Coletto Creek Primary Ash Pond includes more than the minimum number of monitoring wells specified in 40 CFR § 257.91(c)(1). The undersigned has been given access to documentation regarding the design, installation, development, and decommissioning of monitoring wells, piezometers and other measurement, sampling, and analytical devices concerning the Coletto Creek Primary Ash Pond.

I, Daniel B. Bullock, a qualified professional engineer in good standing in the State of Texas, certify that the groundwater monitoring system at the Coletto Creek Primary Ash Pond has been designed and constructed to meet the requirements of 40 CFR § 257.91.

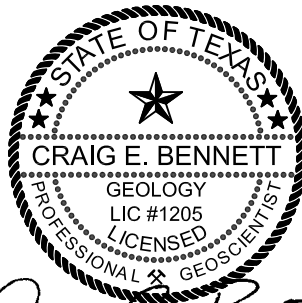
Daniel B. Bullock, P.E.
Qualified Professional Engineer
#82596
Texas
October 17, 2017



Daniel B. Bullock
10-17-2017

I, Craig E. Bennett, a licensed professional geologist in good standing in the State of Texas, certify that the groundwater monitoring system at the Coletto Creek Primary Ash Pond has been designed and constructed to meet the requirements of 40 CFR § 257.91.

Craig E. Bennett, P.G.
Licensed Professional Geologist
#1205
Texas
October 17, 2017



Craig E. Bennett
10-17-2017

APPENDIX B
CCR Groundwater Monitoring Well
System Boring Logs

Appendix B: CCR Groundwater Monitoring Well System Boring Logs

Wells W-4 to W-6 and Well W-8

by Sargent & Lundy Engineers (March and April 1978). These monitoring wells are also designated as MW-4 to MW-6 and MW-8, respectively.

Wells W-9 and W-10

by Bullock, Bennett & Associates, LLC (May 2016). These monitoring wells are also designated as MW-9 and MW-10, respectively.

Well MW-11

by Bullock, Bennett & Associates, LLC (April 2017)

Wells BV-5 and BV-21

by Black & Veatch (August and September 2008)

BORING NO. W-4

| | |
|--|----------------------|
| PROJECT: Calais Canal Rejar Station | |
| CLIENT: Central Water & Light Co. | |
| FEATURE: Recharging Well W-4 | |
| SURFACE ELEVATION: 134.115 | TOTAL DEPTH: 65.5 FT |
| LOCATION: 33405 10100 | |
| DEPTH TO WATER TABLE: 21.0 FT | DATE: 8-3-78 |
| DESIGNED BY: Velocity Testing Laboratories, Inc. | |
| LOGGED BY: Robert E. Lundy | |
| TESTED BY: Velocity Testing Laboratories, Inc. | |

| DEPTH (ft.) | Sample Number | Class of Soil (ASTM) | Moisture (%) | Specific Gravity (G _s) | Void Ratio (e) | Liquid Limit (%) | Plastic Limit (%) | Shrinkage (%) | Soil Description | DEPTH (ft.) |
|-------------|---------------|----------------------|--------------|------------------------------------|----------------|------------------|-------------------|---------------|--|-------------|
| 0 | | | | | | | | | | 34.32 |
| | DT1 | (70) | 16.0 | 60 | 51 | NA | | | SAND, silty, brown. | 37.32 |
| | DT2 | (60) | | | | | | | SAND, silty, medium to fine, brown and yellow. | |
| | DT3 | (100) | 13.2 | | | | | | | |
| | DT4 | (80) | 21.8 | 43 | 59 | NA | | | | |
| | DT5 | (60) | 17.5 | | | | | | | |
| 20 | DS1 | 7-11-40 (100) | | | | | | | - zone of compact sand between 21 Ft and 23 Ft. | 33.32 |
| | DS2 | 14-20-4 (100) | | | | | | | SAND, medium to fine, trace silty, yellow. | 30.32 |
| 30 | DS3 | 20-25-70 (100) | | | | | | | | 29.32 |
| | DS4 | 10-20-1 (100) | | | | | | | CLAY, silty, some medium to fine sand, calcareous, yellow. | 28.32 |
| | DS5 | 10-20-1 (100) | | | | | | | SAND, medium to fine, yellow. | 27.32 |
| | DS6 | 41-49-2 | | | | | | | CLAY, silty and sandy, yellow. | 26.32 |
| | DS7 | 47 (100) | | | | | | | SAND, silty, coarse to fine, trace gravel, yellow. | 25.32 |
| | DS8 | 41-49-2 | | | | | | | - compact layer. | 24.32 |
| | DS9 | 47 (100) | | | | | | | - grades to no gravel, white | 23.32 |
| | DS10 | 10576 (100) | | | | | | | | 22.32 |
| | DS11 | 32-40-70 (100) | | | | | | | - grades to medium to fine. | 21.32 |
| | DS12 | 32-40-70 (100) | | | | | | | - grades to coarse to fine with gravel & shells. | 20.01 |
| 55 | DS13 | 32-40-70 (100) | | | | | | | | 19.32 |
| | DS14 | 32-40-70 (100) | | | | | | | CLAY, sandy, yellow and gray. | 18.01 |
| 60 | DS15 | 32-40-70 (100) | | | | | | | | 17.32 |
| | DS16 | 60-100/2 (100) | | | | | | | SAND and gravel, silty, gray, with compact layers. | 16.32 |
| 65 | DS17 | 60-100/2 (100) | | | | | | | | 15.32 |
| | DS18 | 60-100/2 (100) | | | | | | | CLAY, sandy, gray. | 14.01 |
| | DS19 | 60-100/2 (100) | | | | | | | - grades to yellow | 13.01 |
| 70 | DS20 | 10-37-100/5 (100) | | | | | | | | 12.01 |
| | DS21 | 10-37-100/5 (100) | | | | | | | SAND, silty, coarse to fine, yellow. | 11.01 |
| | DS22 | 10-37-100/5 (100) | | | | | | | Caliche, (C30b) | 10.01 |
| 75 | DS23 | 10-37-100/5 (100) | | | | | | | | 9.01 |
| | DS24 | 10-37-100/5 (100) | | | | | | | SAND, silty, coarse to fine, yellow. | |
| | DS25 | 10-37-100/5 (100) | | | | | | | CLAY, silty, little medium to fine sand, gray and brown with patches of Caliche. | 8.32 |
| 80 | DS26 | 10-37-100/5 (100) | | | | | | | | |
| | DS27 | 10-37-100/5 (100) | | | | | | | | |
| 85 | DS28 | 10-37-100/5 (100) | | | | | | | | |
| | DS29 | 10-37-100/5 (100) | | | | | | | | |
| 90 | | | | | | | | | END OF BORING - 65.5 Ft | 81.32 |
| | | | | | | | | | Groundwater encountered at 61.0 Ft. | |

ATTACHMENT 11

DS. 5

BORING NO. W-5

SHEET 1 OF 2

| DEPTH (ft.) | SAMPLE NUMBER AND TYPE | BLOWS/6" ON SAMPLER (RECOVERY, %) | POCKET PENETROMETER MEASUREMENT (ref.) | FIELD MOISTURE CONTENT (%) | LIQUID LIMIT (%) | PLASTIC LIMIT (%) | OTHER TESTS | CORE RECOVERY (%) | ROD (%) | SYMBOLS | | DESCRIPTION | DEPTH (ft.) | ELEVATION (ft., MSL) |
|-------------|------------------------|-----------------------------------|--|----------------------------|------------------|-------------------|-------------|-------------------|---------|---------|----|---|-------------|----------------------|
| | | | | | | | | | | SC | SM | | | |
| 0 | | | | | | | | | | SC | SM | SAND, silty, brown (topsoil) | 0 | 19.57 |
| | | | | | | | | | | SC | | SAND, clayey, medium to fine, brown. | | 19.07 |
| 5 | ST1 | (75) | | 12.8 | | | SA | | | | | | 5 | 14.07 |
| | ST2 | (83) | | | | | | | | CL | | CLAY, silty, gray, with Caliche. | | |
| | ST3 | (83) | | | | | | | | SC | | SAND, clayey, brown, with layers of Caliche. | | 11.57 |
| 10 | ST4 | (83) | | | | | | | | CL | | CLAY, silty, yellow and white, with lenses and pockets of Caliche. | 10 | 108.57 |
| 16 | ST5 | (78) | | 3.1 | | | SA | | | SP-SH | | SAND, medium to fine, white. | 16 | 104.57 |
| 20 | SS6 | 8-13-20 (100) | | | | | SA | | | | | | 20 | |
| 25 | SS7 | 7-47-100 / 4.5 (100) | | | | | | | | SC | | SAND, clayey, calcareous, white. (Caliche) | 25 | 103.57 |
| 30 | SS8 | 6-13-31 (100) | | | | | | | | SM-SC | | SAND, silty and clayey, white, with lenses and seams of Caliche - grades to gray. | 30 | 100.57 |
| 35 | SS9 | 14-36-31 (100) | | | | | SA | | | | | | 35 | |
| 40 | SS10 | 1-27-31 (100) | | | | | | | | SM | | SAND, silty, coarse to fine, white | 40 | 99.57 99.07 |
| 45 | SS11 | 16-67-100/5.5 (100) | | 34 | 15 | | | | | CL | | CLAY, silty, gray, with seams of Caliche. | 45 | 103.57 |
| 60 | | | | | | | | | | | | | 60 | |

| REVISION | DATE | DESCRIPTION |
|----------|--------------------------|-------------|
| | APPROVED BY | |
| 0 | 10-24-78 D.G. Borland | For Use |
| | | |
| | | |
| | | |

COLETO CREEK POWER STATION
LOG OF BORING W-5

CENTRAL POWER & LIGHT CO.

SARGENT & LUNDY
ENGINEERS

PROJECT NUMBER 4857

| DEPTH (ft.) | SAMPLE NUMBER AND TYPE | BLOWS/6" ON SAMPLER (RECOVERY, %) | POCKET PENETROMETER MEASUREMENT (100) | FIELD MOISTURE CONTENT (%) | LIQUID LIMIT (%) | PLASTIC LIMIT (%) | OTHER TESTS | CORE RECOVERY (%) | ROD (%) | SYMBOLS | DESCRIPTION | DEPTH (ft.) | ELEVATION (ft., MBL) |
|-------------|------------------------|-----------------------------------|---------------------------------------|----------------------------|------------------|-------------------|-------------|-------------------|---------|---------|---|-------------|----------------------|
| | | | | | | | | | | | DESCRIPTION | | |
| 50 | SS12 | 72-100/1 (100) | | | | | SA | | | SM-SC | SAND, silty and clayey, calcareous, white, very dense. (Caliche) | 69.57 | |
| 55 | SS13 | 50-74-130/5.5 (100) | | | | | | | | SM | SAND, silty, white. | 66.57 | |
| 60 | SS14 | 100/3.5 (100) | | | 18 | 14 | SA | | | SM-SC | SAND, silty and clayey, calcareous, white and brown, very dense. (Caliche) | 62.57 | |
| 65 | SS15 | 18-78-100/4.5 (100) | | | | | | | | CL | CLAY, silty, brown. | 53.57 | |
| 70 | SS16 | 9-17-21 (100) | | | | | | | | | END OF BORING - 71.5 Ft Groundwater encountered at 40.0 Ft. and rose to 32.5 Ft. | 48.07 | |
| 75 | | | | | | | | | | | | | |

| REVISION | DATE | DESCRIPTION |
|----------|--------------------------------|-------------|
| 0 | 10-24-78 <i>R.B. Berlin</i> | For Use |
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**COLETO CREEK POWER STATION
LOG OF BORING W-5 (cont'd)**

CENTRAL POWER & LIGHT CO.

SARGENT & LUNDY
ENGINEERS

PROJECT NUMBER 4857

REVISIONS

| NO. | DATE | BY | DESCRIPTION |
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DRAWING RELEASE RECORD

(Signature)

LOC OF BRINGS
S-4 PROJECT I-4
CALLED GREY POWER STATION UNIT 1
CENTRAL POWER & LIGHT COMPANY
CALHOUN COUNTY, TEXAS

SURETT & LUNDY
ENGINEERS
DRAWING NO.
S-1-D
SHEET 8 OF 8

FOR REFERENCE ONLY
SPEC. OCT. - 5/13, 20
11-21-89

REVISIONS

| NO. | DATE | BY | DESCRIPTION |
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DRAWING RELEASE RECORD

(Signature)

LOC OF BRINGS
S-4 PROJECT I-4
CALLED GREY POWER STATION UNIT 1
CENTRAL POWER & LIGHT COMPANY
CALHOUN COUNTY, TEXAS

SURETT & LUNDY
ENGINEERS
DRAWING NO.
S-1-D
SHEET 8 OF 8

FOR REFERENCE ONLY
SPEC. OCT. - 5/13, 20
11-21-89

| NO. | DATE | DEPTH | DIAMETER | WATER TABLE | REMARKS |
|-----|-------|-------|----------|-------------|---------|
| 1 | 09/12 | 20 | 12 | 18 | 1.000 |
| 2 | 09/12 | 30 | 12 | 28 | 1.000 |
| 3 | 09/12 | 40 | 12 | 38 | 1.000 |
| 4 | 09/12 | 50 | 12 | 48 | 1.000 |
| 5 | 09/12 | 60 | 12 | 58 | 1.000 |
| 6 | 09/12 | 70 | 12 | 68 | 1.000 |
| 7 | 09/12 | 80 | 12 | 78 | 1.000 |
| 8 | 09/12 | 90 | 12 | 88 | 1.000 |
| 9 | 09/12 | 100 | 12 | 98 | 1.000 |
| 10 | 09/12 | 110 | 12 | 108 | 1.000 |
| 11 | 09/12 | 120 | 12 | 118 | 1.000 |
| 12 | 09/12 | 130 | 12 | 128 | 1.000 |
| 13 | 09/12 | 140 | 12 | 138 | 1.000 |
| 14 | 09/12 | 150 | 12 | 148 | 1.000 |
| 15 | 09/12 | 160 | 12 | 158 | 1.000 |
| 16 | 09/12 | 170 | 12 | 168 | 1.000 |
| 17 | 09/12 | 180 | 12 | 178 | 1.000 |
| 18 | 09/12 | 190 | 12 | 188 | 1.000 |
| 19 | 09/12 | 200 | 12 | 198 | 1.000 |
| 20 | 09/12 | 210 | 12 | 208 | 1.000 |
| 21 | 09/12 | 220 | 12 | 218 | 1.000 |
| 22 | 09/12 | 230 | 12 | 228 | 1.000 |
| 23 | 09/12 | 240 | 12 | 238 | 1.000 |
| 24 | 09/12 | 250 | 12 | 248 | 1.000 |
| 25 | 09/12 | 260 | 12 | 258 | 1.000 |
| 26 | 09/12 | 270 | 12 | 268 | 1.000 |
| 27 | 09/12 | 280 | 12 | 278 | 1.000 |
| 28 | 09/12 | 290 | 12 | 288 | 1.000 |
| 29 | 09/12 | 300 | 12 | 298 | 1.000 |
| 30 | 09/12 | 310 | 12 | 308 | 1.000 |
| 31 | 09/12 | 320 | 12 | 318 | 1.000 |
| 32 | 09/12 | 330 | 12 | 328 | 1.000 |
| 33 | 09/12 | 340 | 12 | 338 | 1.000 |
| 34 | 09/12 | 350 | 12 | 348 | 1.000 |
| 35 | 09/12 | 360 | 12 | 358 | 1.000 |
| 36 | 09/12 | 370 | 12 | 368 | 1.000 |
| 37 | 09/12 | 380 | 12 | 378 | 1.000 |
| 38 | 09/12 | 390 | 12 | 388 | 1.000 |
| 39 | 09/12 | 400 | 12 | 398 | 1.000 |
| 40 | 09/12 | 410 | 12 | 408 | 1.000 |
| 41 | 09/12 | 420 | 12 | 418 | 1.000 |
| 42 | 09/12 | 430 | 12 | 428 | 1.000 |
| 43 | 09/12 | 440 | 12 | 438 | 1.000 |
| 44 | 09/12 | 450 | 12 | 448 | 1.000 |
| 45 | 09/12 | 460 | 12 | 458 | 1.000 |
| 46 | 09/12 | 470 | 12 | 468 | 1.000 |
| 47 | 09/12 | 480 | 12 | 478 | 1.000 |
| 48 | 09/12 | 490 | 12 | 488 | 1.000 |
| 49 | 09/12 | 500 | 12 | 498 | 1.000 |
| 50 | 09/12 | 510 | 12 | 508 | 1.000 |
| 51 | 09/12 | 520 | 12 | 518 | 1.000 |
| 52 | 09/12 | 530 | 12 | 528 | 1.000 |
| 53 | 09/12 | 540 | 12 | 538 | 1.000 |
| 54 | 09/12 | 550 | 12 | 548 | 1.000 |
| 55 | 09/12 | 560 | 12 | 558 | 1.000 |
| 56 | 09/12 | 570 | 12 | 568 | 1.000 |
| 57 | 09/12 | 580 | 12 | 578 | 1.000 |
| 58 | 09/12 | 590 | 12 | 588 | 1.000 |
| 59 | 09/12 | 600 | 12 | 598 | 1.000 |
| 60 | 09/12 | 610 | 12 | 608 | 1.000 |
| 61 | 09/12 | 620 | 12 | 618 | 1.000 |
| 62 | 09/12 | 630 | 12 | 628 | 1.000 |
| 63 | 09/12 | 640 | 12 | 638 | 1.000 |
| 64 | 09/12 | 650 | 12 | 648 | 1.000 |
| 65 | 09/12 | 660 | 12 | 658 | 1.000 |
| 66 | 09/12 | 670 | 12 | 668 | 1.000 |
| 67 | 09/12 | 680 | 12 | 678 | 1.000 |
| 68 | 09/12 | 690 | 12 | 688 | 1.000 |
| 69 | 09/12 | 700 | 12 | 698 | 1.000 |
| 70 | 09/12 | 710 | 12 | 708 | 1.000 |
| 71 | 09/12 | 720 | 12 | 718 | 1.000 |
| 72 | 09/12 | 730 | 12 | 728 | 1.000 |
| 73 | 09/12 | 740 | 12 | 738 | 1.000 |
| 74 | 09/12 | 750 | 12 | 748 | 1.000 |
| 75 | 09/12 | 760 | 12 | 758 | 1.000 |
| 76 | 09/12 | 770 | 12 | 768 | 1.000 |
| 77 | 09/12 | 780 | 12 | 778 | 1.000 |
| 78 | 09/12 | 790 | 12 | 788 | 1.000 |
| 79 | 09/12 | 800 | 12 | 798 | 1.000 |
| 80 | 09/12 | 810 | 12 | 808 | 1.000 |
| 81 | 09/12 | 820 | 12 | 818 | 1.000 |
| 82 | 09/12 | 830 | 12 | 828 | 1.000 |
| 83 | 09/12 | 840 | 12 | 838 | 1.000 |
| 84 | 09/12 | 850 | 12 | 848 | 1.000 |
| 85 | 09/12 | 860 | 12 | 858 | 1.000 |
| 86 | 09/12 | 870 | 12 | 868 | 1.000 |
| 87 | 09/12 | 880 | 12 | 878 | 1.000 |
| 88 | 09/12 | 890 | 12 | 888 | 1.000 |
| 89 | 09/12 | 900 | 12 | 898 | 1.000 |
| 90 | 09/12 | 910 | 12 | 908 | 1.000 |
| 91 | 09/12 | 920 | 12 | 918 | 1.000 |
| 92 | 09/12 | 930 | 12 | 928 | 1.000 |
| 93 | 09/12 | 940 | 12 | 938 | 1.000 |
| 94 | 09/12 | 950 | 12 | 948 | 1.000 |
| 95 | 09/12 | 960 | 12 | 958 | 1.000 |
| 96 | 09/12 | 970 | 12 | 968 | 1.000 |
| 97 | 09/12 | 980 | 12 | 978 | 1.000 |
| 98 | 09/12 | 990 | 12 | 988 | 1.000 |
| 99 | 09/12 | 1000 | 12 | 998 | 1.000 |
| 100 | 09/12 | 1010 | 12 | 1008 | 1.000 |

NOTES

REFERENCE DRAWINGS

S-2 BOHRING LOCATIONS (LOCATION PLAN)

Bullock, Bennett & Associates, LLC
 165 N. Lampasas Street
 Bertram, TX 78605

LOG OF BORING W-9

(Page 1 of 1)

COLETO CREEK POWER STATION
 FANNIN, TX

Date : 9/15/2015
 Easting : 2543670.9
 Northing : 13451651.2
 Top of Casing
 Elevation : 132.3 ft NAVD 88
 Logger : EEF

Drilling Company : EnviroCore
 Driller : Craig Schena (Lic. #4694)
 Drill Rig : CME75
 Drilling Method : Hollow Stem Auger - 6"
 Sampling Method : Split-Spoon

Project No. 15215

| DEPTH (feet) | Surface Elevation | DESCRIPTION | USCS | GRAPHIC | Recovery (ft/ft) | WELL DIAGRAM/REMARKS |
|--------------|-------------------|---|-------|---------|------------------|---|
| 0.0 | 128 | (0-2.0) - Fill Material: CLAYEY SAND, mottled light gray and reddish brown, moist | SC | | 1.5/2 | Well Construction: Riser -3.0' AGL - 40.0' BGL Neat Cement: 0' - 2.0' BGL Bentonite chips seal: 2.0' - 38.0' BGL Sand Pack: 38.0' - 60.0' BGL Screen: 40.0' - 60.0' BGL Water Level: 25.2' BGL 5-26-16 |
| 5.0 | 124 | (2.0-5.5) - Fill Material: Silty CLAY/Clayey SAND, brownish gray to white, soft to firm, Sand is fine to coarse grained, common caliche gravel, moist | SC/CL | | 2/2 | |
| | | (5.5-10.0) - Silty CLAY, dark gray to gray with orangish brown mottling, firm to hard, medium plasticity, common caliche gravel, minor roots, moist | CL | | 2/2 | |
| 10.0 | 120 | | | | 2/2 | |
| | 116 | | | | 2/2 | |
| 15.0 | 112 | (10.0-20.5) - Predominantly Caliche and Silty CLAY, light gray to white, Caliche is weakly cemented, low plasticity, dry | ML/CL | | 2/2 | |
| | | | | | 2/2 | |
| 20.0 | 108 | (20.5-22.0) - SILTY SAND, very light brownish gray, fine to coarse grained, trace of gravel, moist | SM | | 2/2 | |
| 25.0 | 104 | | | | 2/2 | |
| | 100 | | | | 2/2 | |
| 30.0 | 96 | (22.0-44.0) - SAND, very light orangish brownish to very light gray, fine to coarse grained, slightly silty, wet | SW | | 2/2 | |
| 35.0 | 92 | | | | 2/2 | |
| 40.0 | 88 | | | | 2/2 | |
| 45.0 | 84 | (44.0-47.0) - SILTY SAND, light gray, fine to coarse grained, wet | SM | | 2/2 | |
| 50.0 | 80 | (47.0-54.0) - Silty CLAY/Clayey SAND, light gray, soft to firm, Sand is fine to coarse grained, wet | SC/CL | | 2/2 | |
| 55.0 | 76 | | | | 2/2 | |
| 60.0 | 72 | (54.0-60.0) - Silty, Clayey SAND, gray, fine to coarse grained, wet | SC/SM | | 2/2 | |

Total Boring Depth = 60 ft Below Ground Level; North and Easting Coordinates from NAD-83, South Central Zone

Bullock, Bennett & Associates, LLC
 165 N. Lampasas Street
 Bertram, TX 78605

LOG OF BORING W-10

(Page 1 of 1)

COLETO CREEK POWER STATION
 FANNIN, TX

Date : 9/17/2015
 Easting : 2542864.5
 Northing : 13449694.0
 Top of Casing
 Elevation : 130.4 ft NAVD 88
 Logger : EEF

Drilling Company : EnviroCore
 Driller : Craig Schena (Lic. #4694)
 Drill Rig : CME75
 Drilling Method : Hollow Stem Auger - 6"
 Sampling Method : Split-Spoon

Project No. 15215

| DEPTH (feet) | Surface Elevation | DESCRIPTION | USCS | GRAPHIC | Recovery (ft/ft) | WELL DIAGRAM/REMARKS |
|--------------|-------------------|-------------|------|---------|------------------|----------------------|
|--------------|-------------------|-------------|------|---------|------------------|----------------------|

| | | | | | | |
|------|-----|---|-------|--|-------|---|
| 0.0 | | (0-2.0) - Fill Material: SILTY SAND, fine to coarse grained, brown, clayey, common roots, moist | SM | | 2/2 | <p>Well Construction: Riser -3.0' AGL - 40.0' BGL Neat Cement: 0' - 2.0' BGL Bentonite chips seal: 2.0' - 38.0' BGL Sand Pack: 38.0' - 60.0' BGL Screen: 40.0' - 60.0' BGL</p> <p>Water Level: 24.8' BGL</p> <p><i>Craig E. Bennett</i> 5-26-16</p> |
| 5.0 | 124 | (2.0-8.0) - Silty, Sandy CLAY, mottled organish brown and light gray, firm, medium plasticity, moist | CL | | 1.8/2 | |
| | 120 | | | | 0/2 | |
| | | | | | 1.7/2 | |
| 10.0 | 116 | (8.0-11.0) - Silty CLAY/Clayey SAND, light gray, Sand is medium grained, moist | SC/CL | | 2/2 | |
| | | | | | 1.7/2 | |
| 15.0 | 112 | (11.0-19.0) - SILTY SAND, very light gray, medium to coarse grained, abundant caliche, moist | SM | | 1.8/2 | |
| | | | | | 1.8/2 | |
| | | | | | 1.8/2 | |
| 20.0 | 108 | | | | 1.8/2 | |
| | 104 | (19.0-30.0) - SAND, light gray, medium to coarse grained, occasional gravel, moist | SP | | 1.8/2 | |
| | | | | | 1.8/2 | |
| | 100 | | | | 1.8/2 | |
| 30.0 | 96 | (30.0-32.0) - Silty CLAY/Clayey SAND, light gray, soft to firm, occasional gravel and caliche, medium plasticity, wet | CL/SC | | 1.8/2 | |
| | | (32.0-34.0) - CLAYEY SAND, brownish gray, soft, very fine, wet | SC | | 1.8/2 | |
| 35.0 | 92 | (34.0-36.0) - SILTY SAND, light gray, fine to medium grained, wet | SM | | 1.5/2 | |
| | | | | | 1.8/2 | |
| 40.0 | 88 | | | | 1.8/2 | |
| | 84 | (36.0-52.0) - Silty, Clayey SAND, light gray, fine to coarse grained, wet | SC/SM | | 1.8/2 | |
| | | | | | 1.8/2 | |
| 45.0 | 80 | | | | 2/2 | |
| | | | | | 2/2 | |
| 50.0 | 76 | | | | 1.8/2 | |
| | | | | | 1.8/2 | |
| 55.0 | 72 | (52.0-60.0) - SILTY SAND, light gray, fine to coarse grained, clayey, wet | SM | | 1.8/2 | |
| | | | | | 2/2 | |
| 60.0 | 68 | | | | 1.5/2 | |

Total Boring Depth = 60 ft Below Ground Level; North and Easting Coordinates from NAD-83, South Central Zone

Bullock, Bennett & Associates, LLC
 165 N. Lampasas Street
 Bertram, TX 78605

LOG OF BORING MW-11

(Page 1 of 1)

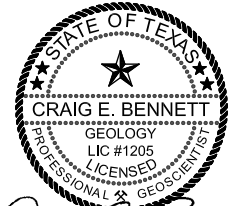
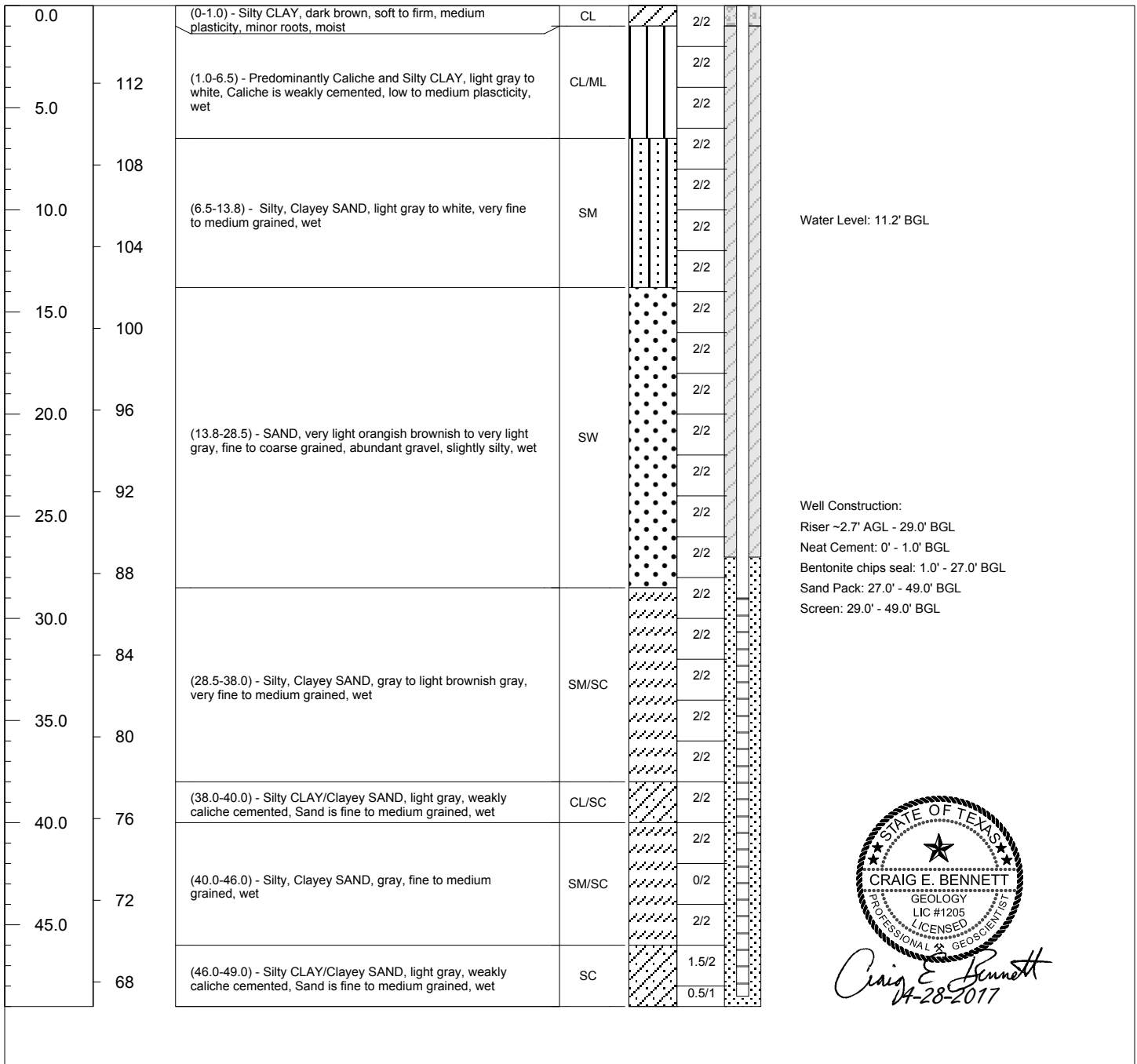
COLETO CREEK POWER STATION
 FANNIN, TX

Date : 4/25/2017
 Easting : 2543727.0
 Northing : 13452676.5
 Top of Casing Elevation : 118.66 ft NAVD 88
 Logger : EEf

Drilling Company : EnviroCore
 Driller : Craig Schena (Lic. #4694)
 Drill Rig : CME75
 Drilling Method : Hollow Stem Auger - 6"
 Sampling Method : Split-Spoon

Project No. 17252

| DEPTH (feet) | Surface Elevation | DESCRIPTION | USCS | GRAPHIC | Recovery (ft/ft) | WELL DIAGRAM/REMARKS |
|--------------|-------------------|-------------|------|---------|------------------|----------------------|
| | 115.8 | | | | | |



Craig E. Bennett
 04-28-2017

Total Boring Depth = 49 ft Below Ground Level; North and Easting Coordinates from NAD-83, South Central Zone



| | | | | |
|--|--|-----------------------------------|---|----------------------------|
| CLIENT International Power America, Inc | | PROJECT Coletto Creek Unit Two | | PROJECT NO. 149116 |
| PROJECT LOCATION Victoria, Texas | | COORDINATES N 327129.3' | GROUND ELEVATION (DATUM) E 2570579.3' 133.0 ft (MSL) | TOTAL DEPTH 80.0 (feet) |
| SURFACE CONDITIONS Grassy, level, tan clayey sand | | COORDINATE SYSTEM State Plane | DATE START 9/16/08 | DATE FINISHED 9/17/08 |

| | | | | | |
|---------------|--|---------------------------|--|----------------------------|-------------|
| SOIL SAMPLING | | LOGGED BY V Bhadriraju | | CHECKED BY V Bhadriraju | APPROVED BY |
|---------------|--|---------------------------|--|----------------------------|-------------|

| ROCK CORING | | | | | | | DEPTH (FEET) | SAMPLE TYPE | ELEVATION (FEET) | GRAPHIC LOG | CLASSIFICATION OF MATERIALS | REMARKS |
|-------------|------------|------------|--------------|--------------|------------------|-----|--------------|-------------|------------------|-------------|---|---|
| CORE SIZE | RUN NUMBER | RUN LENGTH | RUN RECOVERY | RQD RECOVERY | PERCENT RECOVERY | RQD | | | | | | |
| SPT | 1 | 3 | 7 | 11 | 18 | 1.0 | 0 | | 132 | | Clayey SAND; brownish gray; medium dense; moist; fine grained; poorly graded; some roots | Boring advanced w/ 3-1/4" ID hollow stem auger. SPT performed w/ auto hammer. Sand partings are vertical and dry. |
| SPT | 2 | 13 | 11 | 10 | 21 | 1.2 | 2 | | 130 | | @ 3.0'-3.2' yellowish brown fine to medium sand partings; roots grade out | |
| SPT | 3 | 6 | 10 | 13 | 23 | 1.2 | 4 | | 128 | | grading light gray w/ some black mottling | |
| SPT | 4 | 6 | 10 | 13 | 23 | 1.1 | 6 | | 126 | | | |
| CA | 5 | 6 | 14 | 19 | 33 | 1.4 | 8 | | 124 | | grading w/some light brown staining | |
| CA | 5 | 6 | 14 | 19 | 33 | 1.4 | 10 | | 122 | | | |
| SPT | 6 | 13 | 16 | 20 | 36 | 1.5 | 12 | | 120 | | CLAY; white; hard; moist; low plasticity; frequent pockets of gray fine grained clayey sand | |
| SPT | 6 | 13 | 16 | 20 | 36 | 1.5 | 14 | | 118 | | | |
| CA | 7 | 19 | 30 | 28 | 58 | 1.5 | 16 | | 116 | | | |
| CA | 7 | 19 | 30 | 28 | 58 | 1.5 | 18 | | 114 | | grading w/ frequent pockets of gray & light brown clay | |
| CA | 7 | 19 | 30 | 28 | 58 | 1.5 | 20 | | 112 | | SAND; grayish white; moist; fine to medium grained; poorly graded | |
| SPT | 8 | 6 | 8 | 8 | 16 | 1.5 | 22 | | 110 | | | |
| SPT | 8 | 6 | 8 | 8 | 16 | 1.5 | 24 | | 108 | | grading medium dense w/trace angular gravel @ 24.0' gravel grades out | |
| SPT | 9 | 50/5" | - | - | >50 | 0.3 | 26 | | 106 | | | Encountered water @ 25.5' during drilling |
| SPT | 9 | 50/5" | - | - | >50 | 0.3 | 28 | | 104 | | grading very dense @29.2' calcareous sand nodules; some white silt w/ | Sand in augers. Augers being |

1/15/2009 4:19 PM Coletto Creek 2



| | | | | |
|--|--|----------------------------------|---|----------------------------|
| CLIENT International Power America, Inc | | PROJECT Coleta Creek Unit Two | | PROJECT NO. 149116 |
| PROJECT LOCATION Victoria, Texas | | COORDINATES N 327129.3' | GROUND ELEVATION (DATUM) E 2570579.3' 133.0 ft (MSL) | TOTAL DEPTH 80.0 (feet) |
| SURFACE CONDITIONS Grassy, level, tan clayey sand | | COORDINATE SYSTEM State Plane | DATE START 9/16/08 | DATE FINISHED 9/17/08 |

| | | | | |
|---------------|--|---------------------------|----------------------------|-------------|
| SOIL SAMPLING | | LOGGED BY V Bhadriraju | CHECKED BY V Bhadriraju | APPROVED BY |
|---------------|--|---------------------------|----------------------------|-------------|

| SAMPLE TYPE | SAMPLE NUMBER | SET 6 INCHES | 2ND 6 INCHES | 3RD 6 INCHES | N | VALUE | SAMPLE RECOVERY | DEPTH (FEET) | SAMPLE TYPE | ELEVATION (FEET) | GRAPHIC LOG | CLASSIFICATION OF MATERIALS | REMARKS |
|-------------|---------------|--------------|--------------|--------------|---|-------|-----------------|--------------|-------------|------------------|-------------|-----------------------------|---------|
|-------------|---------------|--------------|--------------|--------------|---|-------|-----------------|--------------|-------------|------------------|-------------|-----------------------------|---------|

| CORE SIZE | RUN NUMBER | RUN LENGTH | RUN RECOVERY | RQD RECOVERY | PERCENT RECOVERY | RQD | DEPTH (FEET) | SAMPLE TYPE | ELEVATION (FEET) | GRAPHIC LOG | CLASSIFICATION OF MATERIALS | REMARKS |
|-----------|------------|------------|--------------|--------------|------------------|-----|--------------|-------------|------------------|-------------|-----------------------------|---------|
|-----------|------------|------------|--------------|--------------|------------------|-----|--------------|-------------|------------------|-------------|-----------------------------|---------|

| | | | | | | | | | | | | |
|-----|----|----|----|----|----|-----|----|--|-----|--|---|---|
| | | | | | | | 30 | | 102 | | chalk nodules | driven along w/ spoon. |
| | | | | | | | 32 | | 100 | | | |
| SPT | 10 | 6 | 8 | 10 | 18 | 0.9 | 34 | | 98 | | grading medium dense; wet; fine to medium grained; well graded | Below 28.5' continued w/ rotary wash method using 4" drag bit & bentonite slurry as drilling fluid. Driller reported trace gravel from 28.5'-38.5'. |
| | | | | | | | 36 | | 96 | | | |
| SPT | 11 | 14 | 33 | 38 | 71 | 1.5 | 40 | | 94 | | grading very dense @ 38.5'-39.3' yellow silty clay layer @ 39.3' grading grayish white w/ fine grained sand & some silt | Based on driller's comments. |
| | | | | | | | 42 | | 92 | | Clayey SAND; light gray; dense; moist; fine grained; poorly graded | |
| | | | | | | | 44 | | 90 | | | |
| SPT | 12 | 12 | 16 | 21 | 37 | 1.5 | 48 | | 88 | | grading light brown; silt grades out | |
| | | | | | | | 50 | | 86 | | | |
| | | | | | | | 52 | | 84 | | | |
| SPT | 13 | 12 | 17 | 20 | 37 | 1.5 | 54 | | 82 | | grading fine to medium grained | |
| | | | | | | | 56 | | 80 | | some angular gravel | |
| | | | | | | | 58 | | 78 | | | |
| SPT | 14 | 17 | 40 | 33 | 73 | 0.9 | 60 | | 76 | | grading w/ white fine sand; some clay cementation | Driller reported alternating hard and soft drilling efforts. |
| | | | | | | | 60 | | 74 | | | |

1/15/2009 4:19 PM Coleta Creek 2



| | | | | |
|--|--|----------------------------------|--|----------------------------|
| CLIENT International Power America, Inc | | PROJECT Coleta Creek Unit Two | | PROJECT NO. 149116 |
| PROJECT LOCATION Victoria, Texas | | COORDINATES N 327129.3' | GROUND ELEVATION (DATUM) E 2570579.3' | TOTAL DEPTH 80.0 (feet) |
| SURFACE CONDITIONS Grassy, level, tan clayey sand | | COORDINATE SYSTEM State Plane | DATE START 9/16/08 | DATE FINISHED 9/17/08 |

| | | | | |
|---------------|--|---------------------------|----------------------------|-------------|
| SOIL SAMPLING | | LOGGED BY V Bhadriraju | CHECKED BY V Bhadriraju | APPROVED BY |
|---------------|--|---------------------------|----------------------------|-------------|

| ROCK CORING | | | | | | | | DEPTH (FEET) | SAMPLE TYPE | ELEVATION (FEET) | GRAPHIC LOG | CLASSIFICATION OF MATERIALS | REMARKS |
|-------------|------------|------------|--------------|--------------|------------------|-----|----|--------------|-------------|------------------|--|--|---|
| CORE SIZE | RUN NUMBER | RUN LENGTH | RUN RECOVERY | RQD RECOVERY | PERCENT RECOVERY | RQD | | | | | | | |
| SPT | 16 | 50/4" | - | - | >50 | 0.2 | 64 | | 60.0 | | Silty SAND; white; very dense; moist; fine grained; poorly graded; some pockets of light brown clay; highly cemented | Based on driller's comments & cuttings from rotary wash. | |
| SPT | 17 | 50/3" | - | - | >50 | 0.3 | 70 | | 64 | | grading w/ trace angular to subangular gravel; clay pockets grade to trace | | |
| SPT | 18 | 12 | 17 | 22 | 39 | 1.5 | 74 | | 73.5 | | CLAY; dark tan; hard; moist; low plasticity; some sand @ 74.5' yellowish gray | No clay cuttings in drilling fluid return. | |
| SPT | 19 | 13 | 17 | 22 | 39 | 1.5 | 80 | | | | | | |
| | | | | | | | 82 | | | | | | Bottom of boring @ 80.0'. Water level recorded @ 24.6' after 24 hours. Boring backfilled w/ bentonite pallets to 42.5' on 09/17/08. Piezometer PZ-5 set from 30.0' to 40.0'. Boring backfilled with cement bentonite grout to ground surface. |

1/15/2009 4:19 PM Coleta Creek 2



| | | | | |
|--|--|-----------------------------------|---|----------------------------|
| CLIENT International Power America, Inc | | PROJECT Coletto Creek Unit Two | | PROJECT NO. 149116 |
| PROJECT LOCATION Victoria, Texas | | COORDINATES N 328659.7' | GROUND ELEVATION (DATUM) E 2571578.7' 128.4 ft (MSL) | TOTAL DEPTH 80.0 (feet) |
| SURFACE CONDITIONS Level, loose, silty sand | | COORDINATE SYSTEM State | DATE START 9/8/08 | DATE FINISHED 9/8/08 |

| | | | | |
|---------------|--|----------------------------|----------------------------|-------------|
| SOIL SAMPLING | | LOGGED BY V. Bhadriraju | CHECKED BY V Bhadriraju | APPROVED BY |
|---------------|--|----------------------------|----------------------------|-------------|

| ROCK CORING | | | | | | | | DEPTH (FEET) | SAMPLE TYPE | ELEVATION (FEET) | GRAPHIC LOG | CLASSIFICATION OF MATERIALS | REMARKS |
|-------------|------------|------------|--------------|--------------|------------------|-----|----|--------------|-------------|------------------|--|---|---------|
| CORE SIZE | RUN NUMBER | RUN LENGTH | RUN RECOVERY | RQD RECOVERY | PERCENT RECOVERY | RQD | | | | | | | |
| SPT | 1 | 1 | 2 | 5 | 7 | 0.9 | 0 | | 128 | | SAND; dark brown; loose; moist; fine grained; poorly graded | Boring advanced w/3-1/4" ID hollow stem auger. SPT performed w/auto hammer. | |
| SPT | 2 | 5 | 5 | 6 | 11 | 1.5 | 2 | | 126 | | Clayey SAND; light brown; medium dense; moist; fine grained; poorly graded | | |
| SPT | 3 | 4 | 6 | 9 | 15 | 1.5 | 4 | | 124 | | grading light gray; some black mottling & trace roots | | |
| SPT | 4 | 5 | 6 | 8 | 14 | 1.1 | 6 | | 122 | | grading w/trace chalk nodules; roots grade out | | |
| SPT | 5 | 6 | 8 | 14 | 1.1 | 1.1 | 8 | | 120 | | grading w/frequent seams of chalk nodules | | |
| CA | 5 | 3 | 3 | 4 | 7 | 1.5 | 10 | | 118 | | Clayey SAND; light gray; moist; fine to medium grained; poorly graded; trace gravel | | |
| SPT | 6 | 22 | 50/3 | - | >50 | 0.7 | 12 | | 116 | | grading w/highly cemented calcareous sand | | |
| SPT | 7 | 24 | 50 | 50/4 | >50 | 0.9 | 14 | | 114 | | Silty SAND; grayish white; very dense; moist; fine grained; poorly graded | | |
| SPT | 8 | 5 | 6 | 14 | 20 | 1.5 | 16 | | 112 | | grading orange; wet; fine to medium grained; trace calcareous sand nodules | | |
| SPT | 9 | 20 | 48 | 48 | 96 | 1.5 | 18 | | 110 | | grading orange; wet; fine to medium grained; trace calcareous sand nodules | | |
| SPT | 8 | 5 | 6 | 14 | 20 | 1.5 | 20 | | 108 | | grading orange; wet; fine to medium grained; trace calcareous sand nodules | | |
| SPT | 8 | 5 | 6 | 14 | 20 | 1.5 | 22 | | 106 | | grading orange; wet; fine to medium grained; trace calcareous sand nodules | | |
| SPT | 8 | 5 | 6 | 14 | 20 | 1.5 | 24 | | 104 | | CLAY; light gray; very stiff; moist; high plasticity; some light brown clay pockets | | |
| SPT | 8 | 5 | 6 | 14 | 20 | 1.5 | 26 | | 102 | | SAND; light gray; very dense; wet; fine to coarse grained; well graded; w/trace gravel | | |
| SPT | 8 | 5 | 6 | 14 | 20 | 1.5 | 28 | | 100 | | SAND; light gray; very dense; wet; fine to coarse grained; well graded; w/trace gravel | | |
| SPT | 8 | 5 | 6 | 14 | 20 | 1.5 | 30 | | 100 | | SAND; light gray; very dense; wet; fine to coarse grained; well graded; w/trace gravel | | |

Water encountered during drilling @ 17.6'. Driller reports softer drilling. Below 18.5' continued w/ rotary wash method using 4" drag bit & bentonite slurry as drilling fluid. White silt & fine sand in bottom of SPT-8

1/15/2009 4:19 PM Coletto Creek 2



| | | | | |
|--|--|----------------------------------|---|----------------------------|
| CLIENT International Power America, Inc | | PROJECT Coleto Creek Unit Two | | PROJECT NO. 149116 |
| PROJECT LOCATION Victoria, Texas | | COORDINATES N 328659.7' | GROUND ELEVATION (DATUM) E 2571578.7' 128.4 ft (MSL) | TOTAL DEPTH 80.0 (feet) |
| SURFACE CONDITIONS Level, loose, silty sand | | COORDINATE SYSTEM State | DATE START 9/8/08 | DATE FINISHED 9/8/08 |

| | | | | |
|---------------|--|----------------------------|----------------------------|-------------|
| SOIL SAMPLING | | LOGGED BY V. Bhadriraju | CHECKED BY V Bhadriraju | APPROVED BY |
|---------------|--|----------------------------|----------------------------|-------------|

| | | | | | | |
|-------------|---------------|--------------|--------------|--------------|---------|-----------------|
| SAMPLE TYPE | SAMPLE NUMBER | SET 6 INCHES | 2ND 6 INCHES | 3RD 6 INCHES | N VALUE | SAMPLE RECOVERY |
|-------------|---------------|--------------|--------------|--------------|---------|-----------------|

| | | | | | | | | | | | | |
|-------------|------------|------------|--------------|--------------|------------------|-----|--------------|-------------|------------------|-------------|-----------------------------|---------|
| ROCK CORING | | | | | | | DEPTH (FEET) | SAMPLE TYPE | ELEVATION (FEET) | GRAPHIC LOG | CLASSIFICATION OF MATERIALS | REMARKS |
| CORE SIZE | RUN NUMBER | RUN LENGTH | RUN RECOVERY | RQD RECOVERY | PERCENT RECOVERY | RQD | | | | | | |

| | | | | | | | | | | | | |
|-----|----|-------|-------|-------|-----|-----|------|--|----|--|---|---|
| SPT | 10 | 33 | 50/4" | - | >50 | 0.4 | 30 | | 98 | | grading grayish white; fine grained; poorly graded; w/ trace clay & some gravel | |
| SPT | 11 | 9 | 24 | 40 | 64 | 1.4 | 34 | | 94 | | grading fine to medium grained; clay & gravel grade out | @ 34.0'-35.0' boulder encountered. Hard drilling. Drilled through w/ 4" tricone driller bit. Driller reported limestone in cuttings. Continued w/4" paddle bit. 39.0'- 43.2' driller reported clay like drilling. |
| SPT | 12 | 13 | 39 | 50/4" | >50 | 1.1 | 40 | | 88 | | grading w/occasional light brown clay pockets | |
| CA | 13 | 30 | 45 | 50/5" | >50 | 1.0 | 40.5 | | 88 | | @ 40.5' white clayey silt & some chalk nodules | |
| SPT | 14 | 36 | 50/5" | - | >50 | 1.0 | 42 | | 86 | | Silty CLAY; grayish white; hard; moist; low plasticity; w/ some light gray fine sand pockets | |
| SPT | 15 | 17 | 30 | 32 | 62 | 1.5 | 44 | | 84 | | grading w/limestone nodules | |
| SPT | 16 | 50/4" | - | - | >50 | 0.3 | 47.1 | | 80 | | SAND; light gray; wet; fine grained; poorly graded; highly cemented | |
| | | | | | | | 47.2 | | 80 | | @ 47.2' grading light brown; fine to medium grained; cementation grades out | |
| | | | | | | | 49.0 | | 78 | | Sandy CLAY; grayish white; hard; dry; low plasticity | |
| | | | | | | | 54.0 | | 74 | | SAND; light brown; very dense; wet; fine to medium grained; poorly graded; some gravel & coarse sand sized chalk nodules; occasional light brown clay pockets | |
| | | | | | | | 60 | | 70 | | | |

1/15/2009 4:19 PM Coleto Creek 2



| | | | | |
|--|--|-----------------------------------|---|----------------------------|
| CLIENT International Power America, Inc | | PROJECT Coletto Creek Unit Two | | PROJECT NO. 149116 |
| PROJECT LOCATION Victoria, Texas | | COORDINATES N 328659.7' | GROUND ELEVATION (DATUM) E 2571578.7' 128.4 ft (MSL) | TOTAL DEPTH 80.0 (feet) |
| SURFACE CONDITIONS Level, loose, silty sand | | COORDINATE SYSTEM State | DATE START 9/8/08 | DATE FINISHED 9/8/08 |

| | | | | |
|---------------|--|----------------------------|----------------------------|-------------|
| SOIL SAMPLING | | LOGGED BY V. Bhadriraju | CHECKED BY V Bhadriraju | APPROVED BY |
|---------------|--|----------------------------|----------------------------|-------------|

| ROCK CORING | | | | | | | | DEPTH (FEET) | SAMPLE TYPE | ELEVATION (FEET) | GRAPHIC LOG | CLASSIFICATION OF MATERIALS | REMARKS |
|-------------|------------|------------|--------------|-----|------------------|-----|-------|--------------|-------------|------------------|---|--|--|
| CORE SIZE | RUN NUMBER | RUN LENGTH | RUN RECOVERY | RQD | PERCENT RECOVERY | RQD | | | | | | | |
| SPT | 17 | 11 | 20 | 25 | 45 | 1.5 | 60-64 | | 68 | | @ 60.0' white chalk layer | Clay cuttings from rotary wash | |
| SPT | 18 | 18 | 25 | 25 | 50 | 1.5 | 64-70 | | 66 | | CLAY; yellowish gray; hard; moist; high plasticity | | |
| SPT | 19 | 14 | 27 | 27 | 54 | 1.5 | 70-74 | | 60 | | grading w/frequent partings of grayish white fine sand w/gravel sized chalk nodules | | |
| SPT | 20 | 18 | 18 | 29 | 47 | 1.5 | 74-80 | | 58 | | @ 73.5'-74.0' light brown fine sand partings grade to occasional | | |
| | | | | | | | 80-88 | | 54 | | | SAND; grayish white; dense; moist; fine grained; poorly graded; trace clay | Bottom of boring @ 80.0'. Water level recorded @ 16.3' after 24 hours. Boring backfilled w/ bentonite pallets to 42.5' on 09/09/08. Piezometer PZ-21 set from 30.0' to 40.0'. Boring backfilled with cement bentonite grout to ground surface. |
| | | | | | | | 88-90 | | 50 | | | | |
| | | | | | | | | | 48 | | | | |

1/15/2009 4:19 PM Coletto Creek 2

REPORT

Supplemental Geologic and Hydrogeologic Information

*Coletto Creek Power Station - Primary Ash Pond
Fannin, Texas*

Submitted to:

Coletto Creek Power LLC

Submitted by:

WSP GOLDER

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Suite 325D
Austin, Texas, USA 78746

+1 737 703 3900

31404097.007

November 2022

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| Appendix B | 2021 Groundwater Potentiometric Surface Maps |

1.0 INTRODUCTION

Coletto Creek Power LLC operates the Coletto Creek Power Station (Coletto Creek), a lignite-fired power plant located in Fannin, Goliad County, Texas (the Site) (Figure 1). CCRs including fly ash and bed ash are generated as part of power plant operations. The CCRs are managed/disposed in the Primary Ash Pond onsite or are transported offsite for disposal/beneficial reuse by third-parties.

This report provides geologic and hydrogeologic information to supplement the information provided in the Groundwater Hydrogeologic Monitoring Plan for Coletto Creek (BBA, 2017a).

2.0 SITE GEOLOGY AND HYDROGEOLOGY

The Site is located in the outcrop area of the Pleistocene-aged Lissie Formation, which is described in the Geologic Atlas of Texas (Barnes, 1998) as consisting of sand, silt, clay, and minor amounts of gravel. Extensive soil data collected during several geotechnical and other environmental investigations at the Site (Sargent and Lundy, 1978; AECOM, 2009; AECOM, 2012) indicate that the stratigraphy below the Site and below the Primary Ash Pond is divided into three distinct lithologic units. In order of increasing depth, they are:

- **Unit 1** – This near-surface unit is generally dry and consists primarily of low permeability sandy clay and clayey sand with intermittent layers of silty clay. Unit 1 appears laterally continuous across the Site and extends from ground surface to depths of up to 25 feet below ground surface (bgs). Unit 1 varies in thickness below the Primary Ash Pond from about 11 to 25 feet. The Primary Ash Pond is built on top of the ground surface of Unit 1 and is enclosed by above-grade dikes.
- **Unit 2** – The middle stratigraphic unit is where groundwater is commonly first encountered at the Site, and is considered the uppermost, permeable groundwater-bearing zone/aquifer at the Site. Unit 2 consists primarily of permeable sand and silty sand, with intermittent layers of less permeable clay-bearing soils with varying thickness. This unit appears laterally continuous below the Site, with a thickness that varies from about 40 to 55 feet.
- **Unit 3** – Unit 3 is a basal clay confining stratum that appears laterally continuous at the Site. Unit 3 primarily consists of low permeability clay and silty clay, with some sandy clay zones. Unit 3 is at least 29 feet thick. It was not completely penetrated by most historical soil borings completed at the Site. The clayey soils of this stratum restrict downward migration of groundwater from Unit 2.

AECOM produced geologic cross sections through the Primary Ash Pond area in their 2009 Groundwater Quality Assessment Plan for the Coleto Creek Power Plant (AECOM, 2009). These cross sections, which show the three lithologic units described above, are provided in Appendix 1.

3.0 HYDRAULIC CHARACTERISTICS OF THE SITE LITHOLOGIC UNITS

The uppermost lithologic unit (Unit 1) has low permeability and is generally dry; therefore, it is generally not suitable for groundwater monitoring.

The uppermost aquifer at the Site occurs under unconfined conditions within the middle sand unit (Unit 2). In 2017, Bullock, Bennett & Associates, LLC (BBA) completed single-well aquifer tests (slug tests) at six wells (BV-5, BV-21, BV-22, MW-9, MW-10, and MW-11), which are all screened within the uppermost groundwater-bearing unit at the Site, to evaluate the hydraulic conductivity of the unit. The hydraulic conductivities calculated from the slug test data ranged from 1.37E-02 centimeters per second (cm/s) in BV-22 to 5.14E-04 cm/s in MW-10 (BBA, 2017b). The geometric mean of all slug tests was 3.3E-03 cm/s. These hydraulic conductivity results are typical of lithologic units consisting of fine to medium sand. As described by Domenico and Schwartz (1990), fine to medium sand units typically have hydraulic conductivity values ranging from 5E-01 cm/s to 2E-4 cm/s. Other hydraulic properties of the units at the Site can be estimated based on the lithologic information from soil borings completed at the Site. Typical hydraulic properties for the characteristic lithologic materials of each of the units at the Site are summarized in the table below:

Table 1. Estimated Hydraulic Properties Based on Site-Specific Lithologic Information

| HYDRAULIC PARAMETER | UNIT 1 (Sandy Clay and Clayey Sand) | Unit 2 (Sand and Silty Sand) | Unit 3 (Clay and Silty Clay) |
|--|-------------------------------------|------------------------------|------------------------------|
| Hydraulic Conductivity: (Domenico and Schwartz 1990) | 2E-01 to 1E-08 | 5E-01 cm/s to 2E-4 cm/s | 4.7E-06 cm/s to 1E-08 cm/s |
| Total Porosity: (Morris and Johnson, 1967) | 34% to 61% | 26% to 53% | 34% to 57% |
| Effective Porosity: (Morris and Johnson, 1967) | 6% to 20% | 33% | 6% |

4.0 CCR GROUNDWATER MONITORING SYSTEM

Unit 2 is considered the uppermost aquifer at the Site based on its stratigraphic location, groundwater availability, and characteristically higher hydraulic conductivity/permeability and effective porosity when compared to Unit 1 and Unit 3. The CCR groundwater monitoring well network for the Primary Ash Pond consists of nine monitoring wells each screened within Unit 2. The locations of the CCR monitoring wells are shown on Figure 2.

Groundwater generally flows to the southeast in the vicinity of the Primary Ash Pond. This is demonstrated on the 2021 groundwater potentiometric surface maps presented in Appendix 2. The location of each CCR monitoring well relative to the Primary Ash Pond is as follows:

| Upgradient/Background Wells | Downgradient Wells |
|------------------------------------|---------------------------|
| BV-5 | MW-4 |
| BV-8 | MW-5 |
| BV-21 | MW-6 |
| | MW-9 |
| | MW-10 |
| | MW-11 |

5.0 REFERENCES

- AECOM, 2009. Groundwater Quality Assessment Plan, Coletto Creek Power Plant, Fannin, Goliad County, Texas.
- AECOM, 2012. Geotechnical Stability and Hydraulic Analysis of the Coletto Creek Energy Facility Primary and Secondary Ash Ponds, Coletto Creek Energy Facility, Fannin, Texas.
- Barnes, Virgil E., 1998. Geologic Atlas of Texas, Beeville-Bay City Sheet. Sheet. Texas Bureau of Economic Geology. 1975; revised 1987; reprinted 1998.
- Bullock, Bennett & Associates, LLC (BBA), 2017a. Groundwater Hydrogeologic Monitoring Plan, Coletto Creek Power Station, Fannin, Texas.
- Bullock, Bennett & Associates, LLC (BBA), 2017b. Pneumatic Slug Testing of Select Primary Ash Pond Monitoring Wells, Coletto Creek Power Station, Fannin, Texas.
- Domenico, P.A. and F.W. Schwartz, 1990. *Physical and Chemical Hydrogeology*, John Wiley & Sons, New York, 824 p.
- Morris, D.A. and A.I. Johnson, 1967. Summary of hydrologic and physical properties of rock and soil materials as analyzed by the Hydrologic Laboratory of the U.S. Geological Survey, U.S. Geological Survey Water-Supply Paper 1839-D, 42p.
- Sargent & Lundy Engineers, 1978. Design and Construction Summary for Coal Pile and Wastewater Pond Facilities, Coletto Creek Power Station Unit 1, Report SL-3689.

Signature Page

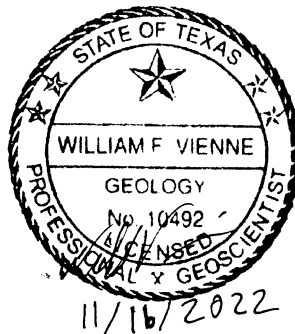
Golder Associates USA, Inc., Member of WSP



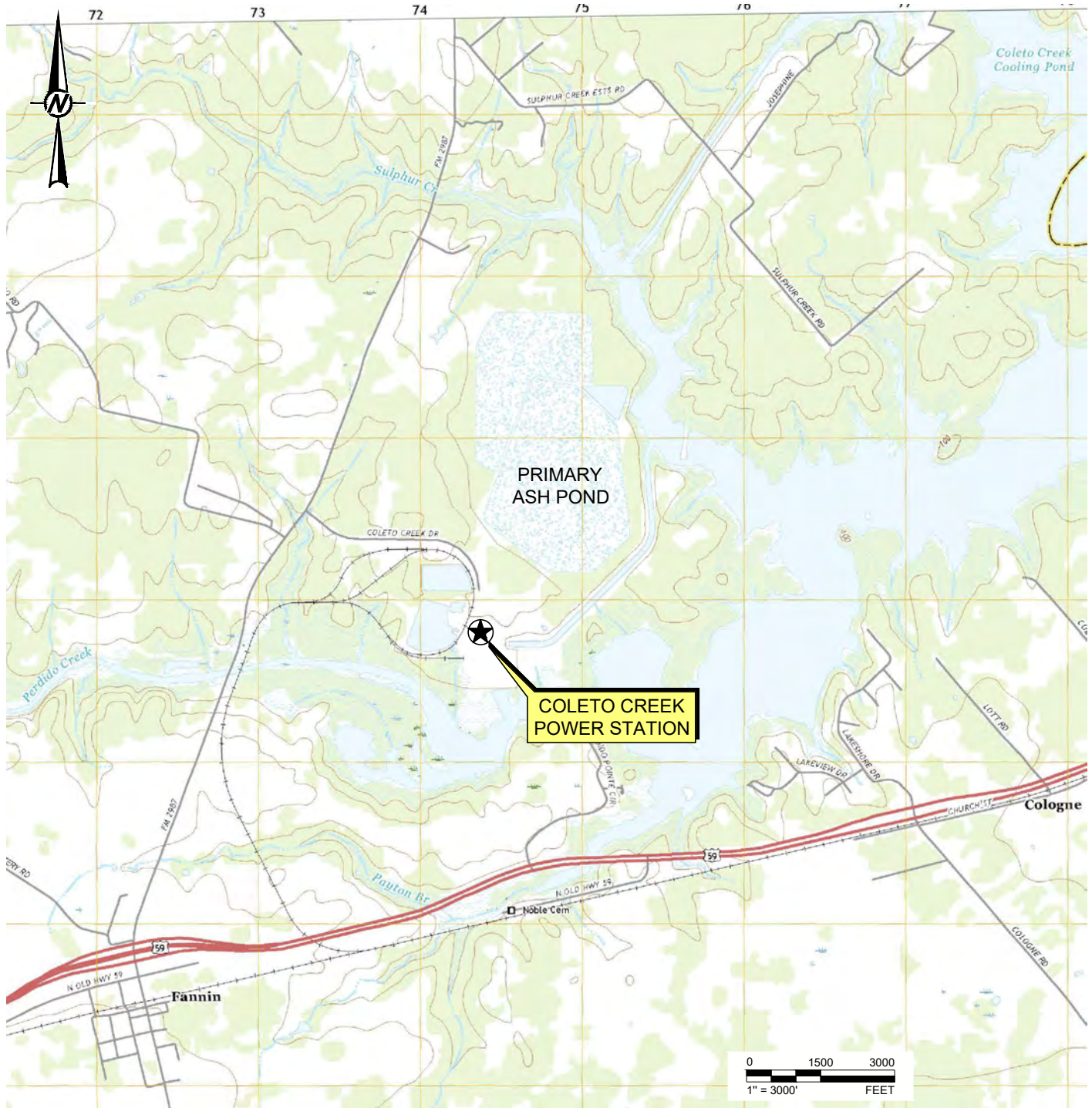
Patrick J. Behling
Principal Engineer



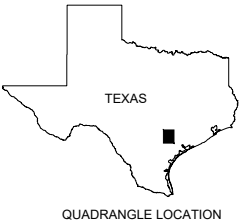
William F. Vienne
Senior Hydrogeologist



FIGURES



REFERENCE(S)
 BASE MAP TAKEN FROM USGS.GOV, FANNIN, TX 7.5 MIN. USGS QUADRANGLE DATED 2019.



CLIENT
 COLETO CREEK POWER LP

PROJECT
 COLETO CREEK POWER STATION
 FANNIN, TEXAS

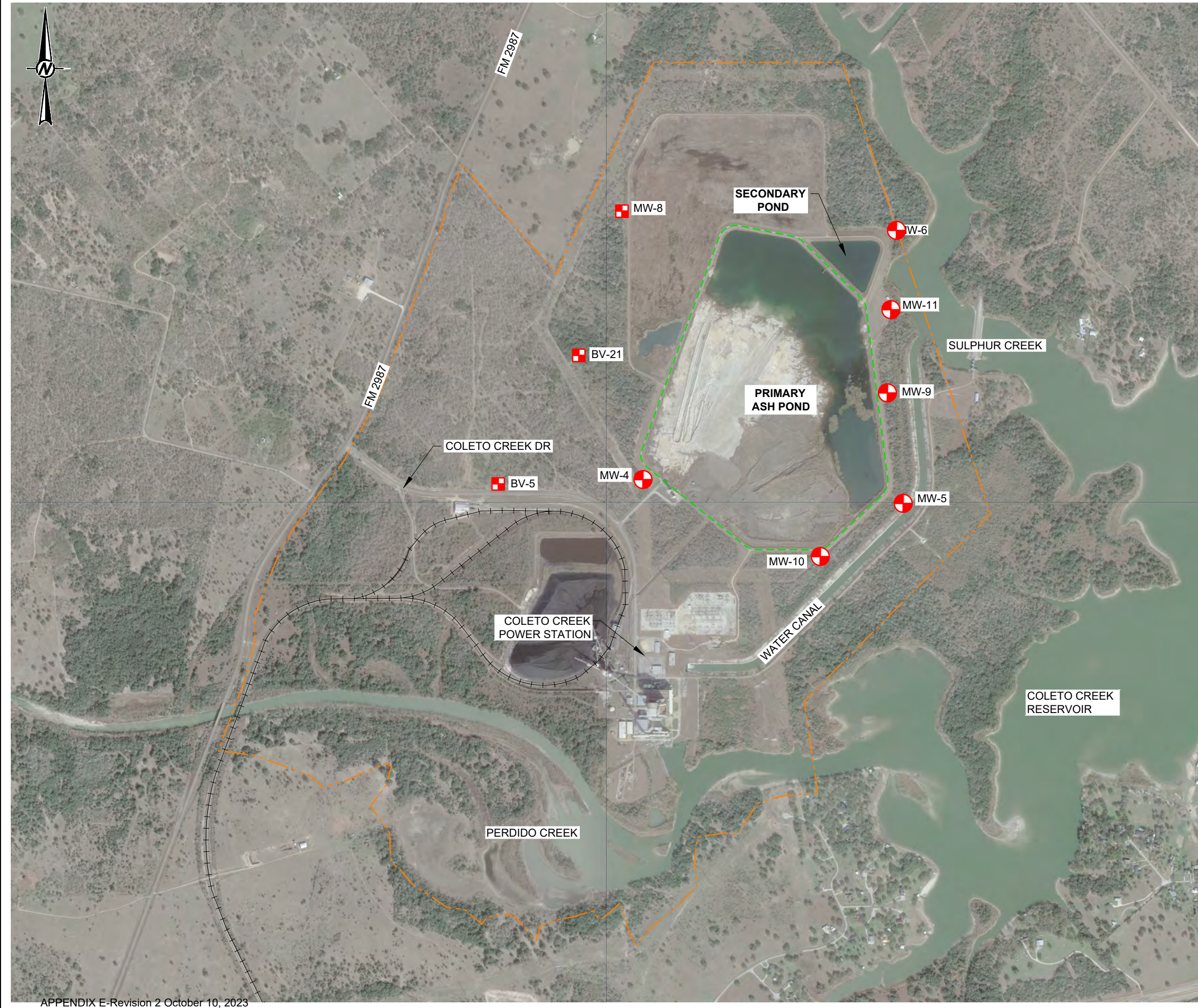
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 SITE LOCATION MAP

| | | |
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| GOLDER | DESIGNED | AJD |
| MEMBER OF WSP | PREPARED | AJD |
| | REVIEWED | WFV |
| | APPROVED | WFV |

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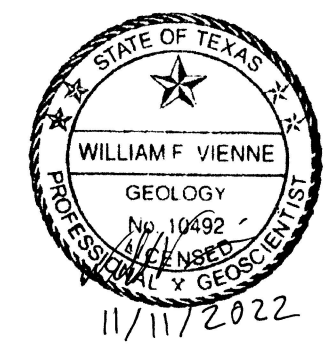
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LEGEND

| | |
|--|----------------------------------|
| | PROPERTY BOUNDARY |
| | CCR MONITORING UNIT |
| | DOWNGRADIENT CCR MONITORING WELL |
| | UPGRADIENT CCR MONITORING WELL |
| | RAILROAD |



REFERENCE(S)
BASE MAP TAKEN FROM GOOGLE EARTH, IMAGERY DATED 1/15/21.



CLIENT
COLETO CREEK POWER LP

PROJECT
COLETO CREEK POWER STATION
FANNIN, TEXAS

TITLE
SITE PLAN

| | | |
|----------------------|------------|------------|
| CONSULTANT | YYYY-MM-DD | 2021-12-14 |
| | DESIGNED | RS |
| MEMBER OF WSP | PREPARED | RS |
| | REVIEWED | WV |
| | APPROVED | WV |

PROJECT NO. 31404097.007 **REV.** 0 **FIGURE** 2

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

APPENDIX A

AECOM (2009) Cross Sections

| NO. | DESCRIPTION | DATE | BY |
|-----|-------------|------|----|
| | | | |
| | | | |
| | | | |
| | | | |

| DESIGNED BY | TCG | DRAWN BY | TCG | CHECKED BY | SLS | APPROVED BY | SLS |
|-------------|-----|----------|-----|------------|-----|-------------|-----|
| | | | | | | | |

AECOM

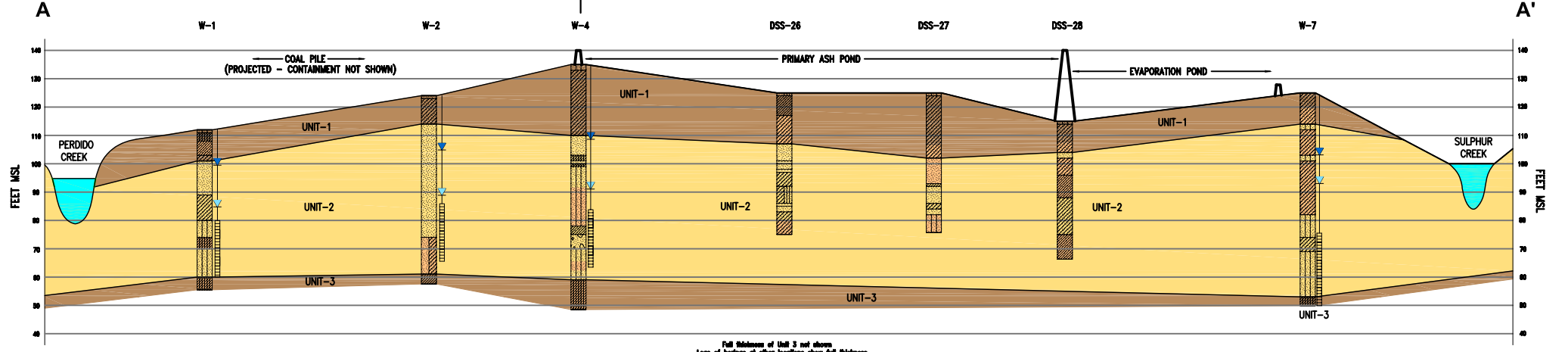
AECOM ENVIRONMENTAL
 4800 LASKY CENTRAL DRIVE, SUITE 600
 HOUSTON, TEXAS 77081-2214
 PHONE: (713) 520-6900
 FAX: (713) 520-6900
 WEB: HTTP://WWW.AECOM.COM

GEOLOGIC CROSS SECTIONS AND MONITOR WELL, PIEZOMETER, AND BORING LOCATION MAP
 COLETA CREEK POWER STATION
 GOLIAD COUNTY, TX

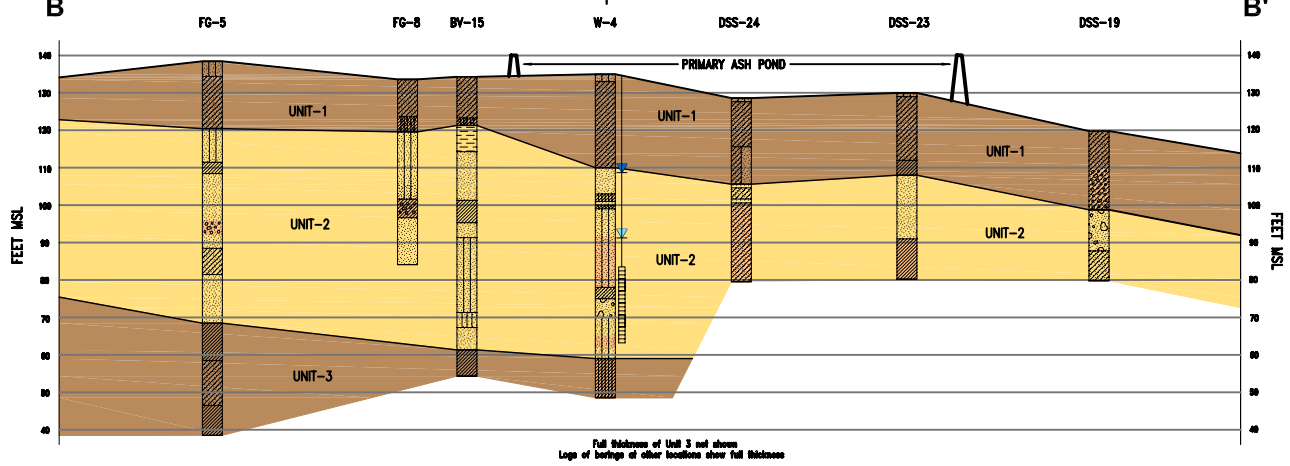
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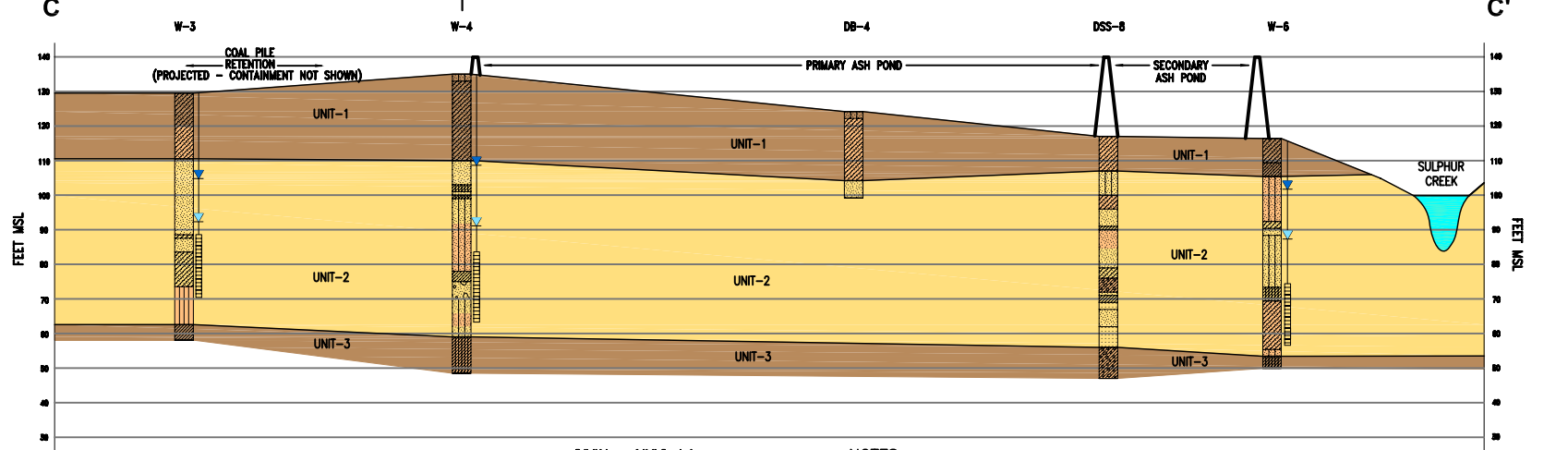
South **North**



West **East**



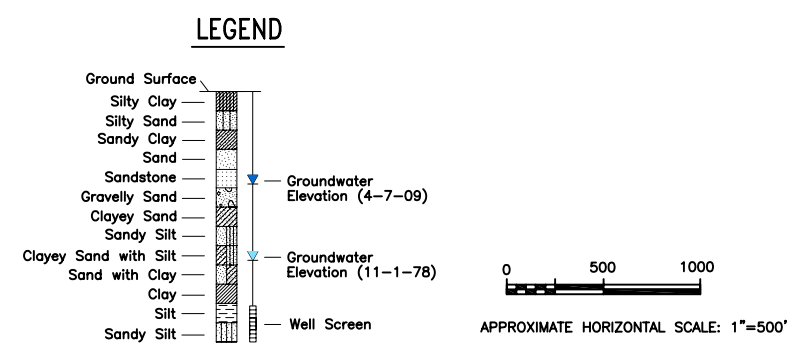
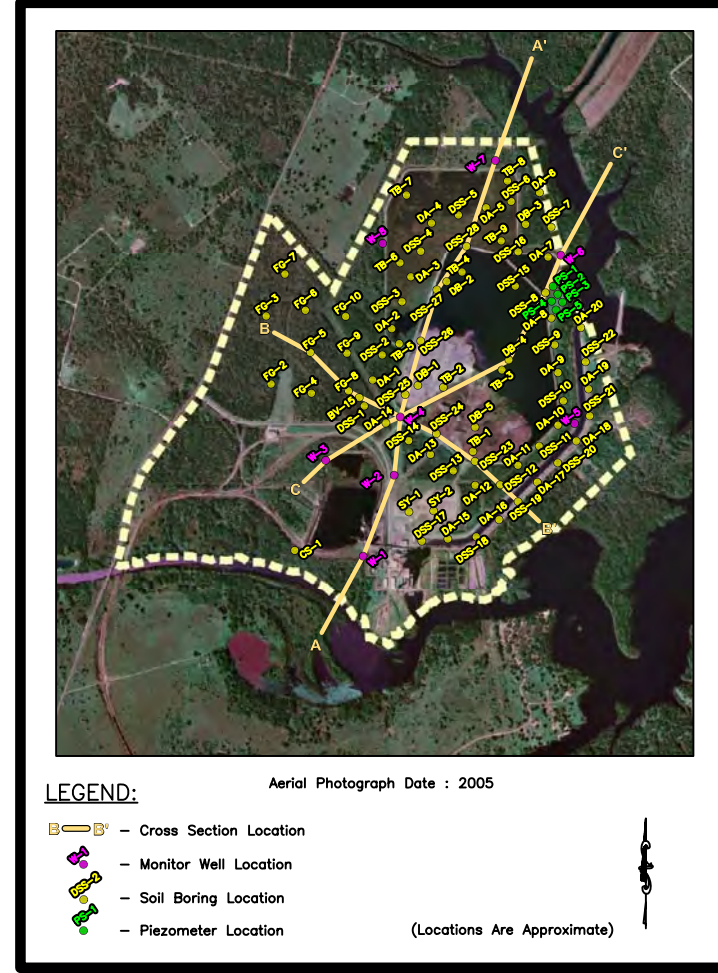
Southwest **Northeast**



LEGEND:

- UNIT 1 - Sandy CLAY and Silty CLAY. Surficial unit.
- UNIT 2 - SAND to Silty SAND with caliche and CLAY/Sandy CLAY lenses. First groundwater-bearing unit.
- UNIT 3 - CLAY to Silty CLAY. Basal unit.
- Caliche.
- With calcareous nodules.

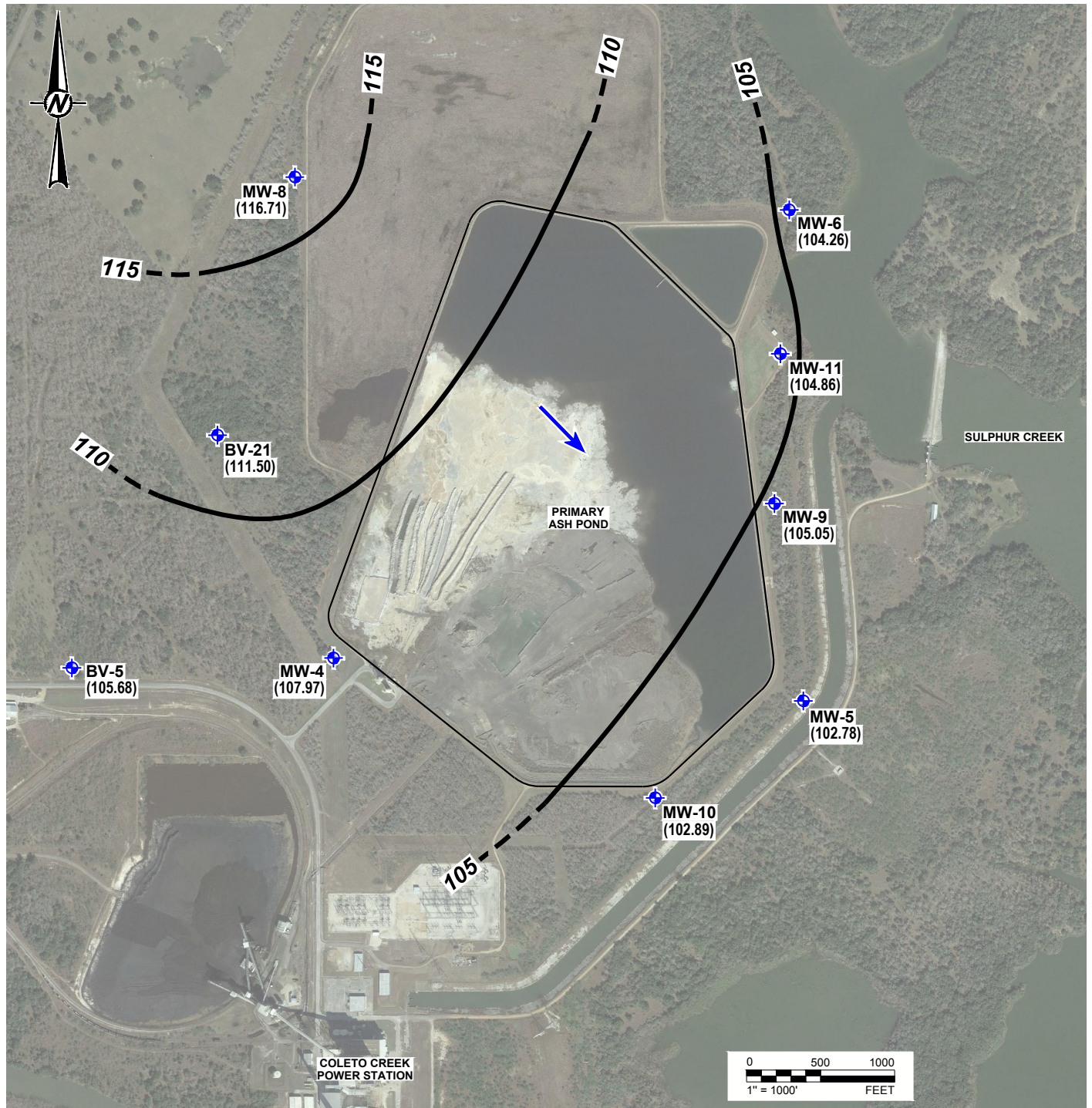
- NOTES:**
- MSL - Mean Sea Level
 - Wells gauged on 11-1-78 and 4-7-09
 - Cross sections and stratigraphy were developed based on information included in reports prepared by Sargent & Lundy Engineers and others
 - Boring locations from drawings prepared by Sargent & Lundy Engineers ("Soils Borings Location Plan, Ash Pond, Flume Channel and Switchyard, Coleta Creek Power Station, Central Power & Light Co., Goliad County, Texas," dated August 25, 1975) and Black & Veatch Corporation ("Combustion Byproduct Storage Area, Subsurface Investigation Location Plan, IPA Coleta Creek, LLC Coleta Creek Unit Two," dated March 11, 2009)
 - Ground surface elevations were interpolated based on surveyed ground surface elevations at boring and well locations
 - Geologic data were interpolated between borings and extrapolated at some locations



APPENDIX B

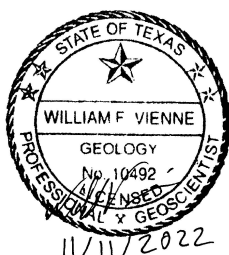
2021 Groundwater Potentiometric Surface Maps

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LEGEND

- CCR MONITORING WELL
- (113.02)** GROUNDWATER POTENTIOMETRIC SURFACE (FT MSL)
- GROUNDWATER POTENTIOMETRIC SURFACE CONTOUR (C.I. = 5 FT)
- INFERRED DIRECTION OF GROUNDWATER FLOW



CLIENT
LUMINANT

PROJECT
**COLETO CREEK POWER STATION
FANNIN, TEXAS**

TITLE
**PRIMARY ASH POND
POTENTIOMETRIC SURFACE MAP
JUNE 2, 2021**

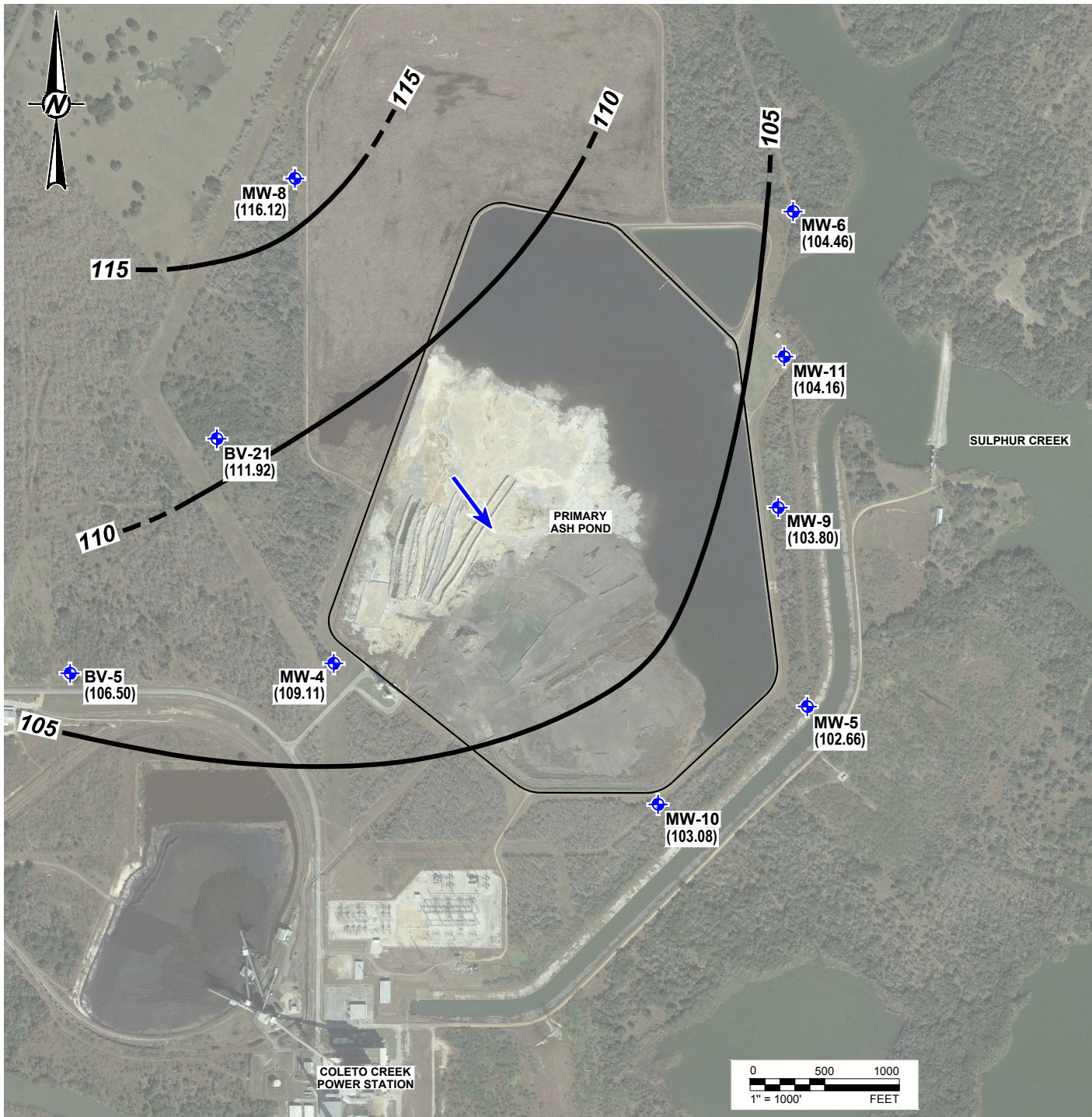
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| DESIGNED | | AJD |
| PREPARED | | AJD |
| REVIEWED | | HD |
| APPROVED | | WV |






REFERENCE(S)
APPENDIX E, Revision 2, October 10, 2023

| | | | |
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| PROJECT NO. | CONTROL | REV. | FIGURE |
| 31404097.007 | | 0 | 1 |

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LEGEND

-  CCR MONITORING WELL
- (113.02)** GROUNDWATER POTENTIOMETRIC SURFACE (FT MSL)
-  GROUNDWATER POTENTIOMETRIC SURFACE CONTOUR (C.I. = 5 FT)
-  INFERRED DIRECTION OF GROUNDWATER FLOW

CLIENT
LUMINANT

PROJECT
**COLETO CREEK POWER STATION
FANNIN, TEXAS**

TITLE
**PRIMARY ASH POND
POTENTIOMETRIC SURFACE MAP
SEPTEMBER 28, 2021**

CONSULTANT

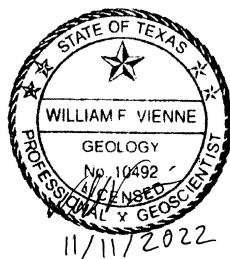
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APPENDIX E, Revision 2, October 10, 2023

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FIGURE 2

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**COAL COMBUSTION RESIDUAL RULE
SUPPLEMENTAL GEOLOGIC AND HYDROGEOLOGIC
INFORMATION REPORT NO. 2**

*PRIMARY ASH POND
COLETO CREEK POWER STATION
FANNIN, TEXAS*

October 6, 2023

Prepared For:

Coletto Creek Power, LLC

Prepared By:

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1.0 INTRODUCTION

Coletto Creek Power, LLC operates the Coletto Creek Power Station (Coletto Creek), a coal-fired power plant located in Fannin, Goliad County, Texas (the Site) (Figure 1). Coal Combustion Residuals (CCRs) including fly ash and bottom ash are generated as part of power plant operations. Bottom ash and fly ash have historically been managed/disposed in the Primary Ash Pond (PAP) onsite. Bottom ash is sluiced directly to the PAP from the unit boiler. Fly ash is pneumatically conveyed from the boiler to storage silos where it is loaded into hopper trucks and transported off-site for beneficial re-use. This report provides geologic and hydrogeologic information to supplement the information in the Coletto Creek Groundwater Hydrogeologic Monitoring Plan (BBA, 2017a).

2.0 SITE GEOLOGY AND HYDROGEOLOGY

The Site is located in the outcrop area of the Pleistocene-aged Lissie Formation, which is described in the Geologic Atlas of Texas (Barnes, 1998) as consisting of sand, silt, clay, and minor amounts of gravel. Extensive soil data collected at the Site indicate that the stratigraphy below the PAP is divided into three distinct lithologic units, which are described below in order of increasing depth.

- **Unit 1** – The PAP is built on top of the ground surface of Unit 1 and is enclosed by above-grade dikes that were constructed using Unit 1 material. Sargent and Lundy prepared a PAP design and construction summary report that evaluated soil borings completed in the footprint of the PAP and surrounding areas (S&L, 1978). Based on soil sample descriptions for the soil borings completed at the Site, Unit 1 generally consists of dry to moist, low permeability sandy clay and silty clay with intermittent clayey sand and caliche. Unit 1 is laterally continuous across the Site and ranges from about 10 to 20 feet thick below the PAP. A “Thickness Map of In-Situ Cohesive Soils” (i.e., Unit 1 thickness map) and PAP boring logs from the S&L design and construction summary report, which demonstrate the general characteristics and laterally continuous nature of Unit 1 at the Site, are reproduced in Appendix A. Laboratory permeability tests conducted on geotechnical samples from Unit 1 ranged from 1.3E-08 to 2.8E-07 centimeters per second (cm/s), with a median of 3.8E-08 cm/s (S&L, 1978), which are values consistent with low permeability clay and silty/sandy clay (Dominico and Schwartz, 1990). Based on the low permeabilities and general dry nature of soil samples collected from Unit 1, this unit is characterized as a hydraulic confining unit overlying the uppermost aquifer at the Site.
- **Unit 2** – Unit 2 comprises the uppermost aquifer at the Site. Unit 2 consists primarily of permeable sand and silty sand, with intermittent layers of less permeable clay-bearing soils with varying thickness. Unit 2 is laterally continuous at the Site with a thickness that varies from about 40 to 54 feet (BBA, 2017a). Bullock, Bennett & Associates, LLC (BBA) completed single-well aquifer tests (slug tests) at six wells (BV-5, BV-21, BV-22, MW-9, MW-10, and MW-11) screened in Unit 2 at the Site in 2017 to evaluate the hydraulic conductivity of the uppermost aquifer (BBA, 2017a). The hydraulic conductivity results of the Unit 2 slug tests ranged from 1.37E-02 cm/s to 5.14E-04 cm/s, which are values consistent with water-bearing units composed of fine to medium sand (Dominico and Schwartz, 1990).
- **Unit 3** – Unit 3 is a basal clay confining stratum that primarily consists of low permeability clay and silty clay with some sandy clay zones. Most of the historical soil borings completed at the Site were not drilled deep enough to encounter Unit 3, but based on the soil borings where it was encountered, Unit 3 appears to be laterally continuous at the Site and is generally greater

than 20 feet thick (BBA, 2017a). The clayey soils of Unit 3 restrict downward migration of groundwater from Unit 2.

Geologic cross sections showing the three lithologic units described above are provided on Figure 2.

3.0 CCR GROUNDWATER MONITORING SYSTEM

Unit 2 is considered the uppermost aquifer at the Site based on its stratigraphic location, groundwater availability, and characteristically higher hydraulic conductivity/permeability when compared to Unit 1 and Unit 3. The CCR groundwater monitoring well system for the PAP, which was certified by a professional engineer in accordance with Section 257.91 of the CCR Rule (BBA, 2017b), consists of nine monitoring wells screened in Unit 2. The locations of the CCR monitoring wells are shown on Figure 1. Groundwater potentiometric surface maps presented in Appendix B indicate that groundwater in the vicinity of the PAP generally flows from the northwest to the southeast toward Coleta Creek Reservoir. The location of each CCR monitoring well relative to the PAP is as follows:

| Upgradient/Background Wells | Downgradient Wells |
|------------------------------------|---------------------------|
| BV-5 | MW-4 |
| BV-21 | MW-5 |
| MW-8 | MW-6 |
| | MW-9 |
| | MW-10 |
| | MW-11 |

The CCR groundwater monitoring wells were installed under the direction of a geoscientist using recognized drilling methods. Soil samples were collected continuously to the base of each monitoring well boring and lithologically logged in the field. All sampling and aquifer characterization methods that were utilized are recognized and accepted methods that provided data at a spatial resolution necessary to adequately characterize the variability of subsurface conditions that control contaminant transport.

The uppermost aquifer occurs under unconfined to semi-confined conditions within the shallow sand and silty sand strata that comprise Unit 2 at the Site. The Site monitoring wells were installed in Unit 2 because that is where the water table was typically encountered during well drilling operations and because the sandy material in Unit 2 constitutes a preferential flow pathway compared to the clay-rich strata in Unit 1 and Unit 3. As described in Section 2.0, single-well aquifer tests (slug tests) were performed at six CCR monitoring wells around the PAP to assess the hydraulic conductivity (i.e., the relative ease at which a fluid moves through a medium) and groundwater flow rates within the uppermost aquifer at the Site. The similarity in hydraulic conductivities in the test wells suggests low spatial variability in permeability and groundwater flow pathways within the uppermost aquifer.

Regular groundwater monitoring activities were performed at the PAP prior to the 2015 effective date of the CCR Rule in accordance with the groundwater monitoring program established as part of the landfill registration with the TCEQ Industrial and Hazardous Waste Permits Section (Solid Waste Registration No. 31911). The PAP groundwater monitoring program was established after construction of the PAP in 1978 and included current CCR groundwater monitoring program wells MW-4 through MW-8, which

were originally named W-4 through W-8 (S&L, 1978). Subsequent investigations in other areas of the power station included installation of additional groundwater monitoring wells, including CCR groundwater monitoring program background wells BV-5 and BV-21. CCR groundwater monitoring program wells MW-9 and MW-10 were installed in 2015, and MW-11 was installed in 2017 to increase the density of monitoring wells on the downgradient edge of the PAP prior to initiating the CCR groundwater monitoring program (BBA, 2017a). In addition to the CCR groundwater monitoring program, Site wells are monitored on a semi-annual basis as part of a Texas Pollutant Discharge Elimination System (TPDES) permit (Permit No. WQ0002159000) groundwater monitoring program that was established in 2010. TPDES groundwater monitoring reports are submitted to the TCEQ on an annual basis.

A summary of the Coleta Creek CCR groundwater monitoring data was provided to the TCEQ Remediation Division on April 8, 2019 in response to a TCEQ letter requesting the data on March 22, 2019. The TCEQ issued a letter dated April 24, 2019 requiring the submittal of a Drinking Water Survey Report associated with the CCR unit. A final Drinking Water Survey Report (Golder, 2019) was submitted to the TCEQ on July 25, 2019, which described the CCR groundwater monitoring well network, summarized the CCR groundwater monitoring data, and inventoried drinking water wells in the area. The Drinking Water Survey Report concluded that no imminent threats to water wells or potentially affected drinking water wells were identified at or in the vicinity of the PAP. The Drinking Water Survey Report was approved by the TCEQ in a letter dated August 15, 2019.

TCEQ has reviewed the PAP monitoring well network on several occasions and has approved the monitoring well network as adequate to assess groundwater quality and potential releases from the PAP. Based on the extensive hydrogeologic evaluations conducted at the Site, the existing CCR groundwater monitoring network is adequate to affectively address spatial variability, accurately represent the quality of groundwater, and detect potential groundwater contamination at the Site.

3.1 Groundwater Potentiometric Surface Elevations

Groundwater potentiometric surface elevations vary across the Site. They are highest in the upgradient wells located west of the PAP and lowest in the downgradient wells located east and southeast of the PAP (see groundwater potentiometric surface maps in Appendix A) . As depicted on the Figure 2 cross sections, groundwater is generally encountered at or near the top of Unit 2.

Groundwater elevations measured in the CCR monitoring wells during the CCR monitoring period (2017 - present) are summarized in Table 1. During this period, groundwater elevations have ranged from a maximum of 116.7 feet above mean sea level (amsl) in upgradient well MW-8 to a minimum of 98.4 feet amsl in downgradient well MW-5. The depth to groundwater below ground surface (and correspondingly below the top of Unit 1) at the CCR monitoring well locations has ranged from 10.7 feet in downgradient well MW-11 to 28.8 feet in downgradient well MW-4 during the CCR monitoring period, which is two to five times greater than the required 5-feet of separation required between groundwater within the uppermost aquifer (i.e., Unit 2) and the base of CCR.

4.0 CCR UNIT PLACEMENT ABOVE THE UPPERMOST AQUIFER

Section 257.60(a) states that, "New CCR landfills, existing and new CCR surface impoundments, and all lateral expansions of CCR units must be constructed with a base that is located no less than 1.52 meters (five feet) above the upper limit of the uppermost aquifer, or must demonstrate that there will not

be an intermittent, recurring, or sustained hydraulic connection between any portion of the base of the CCR unit and the uppermost aquifer due to normal fluctuations in groundwater elevations (including the seasonal high water table).”

As noted in TCEQ Notice of Deficiency No. 3 on the Primary Ash Pond CCR Program Registration Package (TCEQ, 2023), the maximum range of groundwater elevations measured in Site CCR groundwater monitoring wells and the minimum range of the estimated base of the PAP CCR unit overlap. However, a direct comparison of the ranges of groundwater elevations to the base of the PAP is not appropriate to evaluate the CCR unit placement above the uppermost aquifer criteria for the following reasons:

- (1) Groundwater elevations vary across the Site and the maximum measured groundwater elevation of the uppermost aquifer (i.e., Unit 2) does not occur at the location of the lowest bottom elevation (base) of the CCR unit;
- (2) Lithologic and groundwater elevation data indicate groundwater is generally encountered at or near the top of Unit 2; and
- (3) Unit 1 is a laterally continuous confining unit that prevents vertical migration of groundwater from Unit 2 to the PAP. This third point is supported by boring log information that indicates Unit 1 is typically dry to moist and permeability test results (ranging from 1.3E-08 to 2.8E-07 cm/s with a median value of 3.8E-08 cm/s) that indicate Unit 1 has hydraulic conductivity values consistent with low permeability clay and silty/sandy clay.

Based on this information, the PAP meets the CCR Rule requirements for placement above the uppermost aquifer.

5.0 REFERENCES

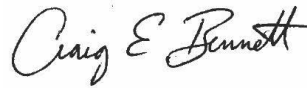
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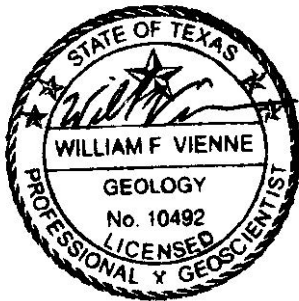
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10/06/2023

TABLES

**TABLE 1
GROUNDWATER ELEVATION SUMMARY
PRIMARY ASH POND AREA
COLETO CREEK POWER STATION**

| Well ID | TOC Elevation (feet amsl) | Casing Stickup (feet ags) | Screen Interval (feet bgs) | Measurement Date | Depth to Water (feet btoc) | Depth to Water (feet bgs) | Water Elevation (feet amsl) |
|-------------------------|------------------------------|------------------------------|-------------------------------|---------------------|-------------------------------|------------------------------|--------------------------------|
| Upgradient Wells | | | | | | | |
| BV-5 | 135.8 | 2.80 | 30-40 | 3/29/2017 | 29.35 | 26.55 | 106.45 |
| | | | | 5/11/2017 | 29.11 | 26.31 | 106.69 |
| | | | | 5/16/2017 | 29.10 | 26.30 | 106.70 |
| | | | | 6/7/2017 | 29.92 | 27.12 | 105.88 |
| | | | | 6/20/2017 | 29.18 | 26.38 | 106.62 |
| | | | | 6/27/2017 | 29.25 | 26.45 | 106.55 |
| | | | | 7/12/2017 | 29.32 | 26.52 | 106.48 |
| | | | | 7/18/2017 | 29.41 | 26.61 | 106.39 |
| | | | | 09/18/18 | 30.33 | 27.53 | 105.47 |
| | | | | 06/03/19 | 28.11 | 25.31 | 107.69 |
| | | | | 10/02/19 | 29.29 | 26.49 | 106.51 |
| | | | | 06/09/20 | 30.01 | 27.21 | 105.79 |
| | | | | 10/06/20 | 30.55 | 27.75 | 105.25 |
| | | | | 06/02/21 | 30.12 | 27.32 | 105.68 |
| | | | | 06/28/21 | 29.30 | 26.50 | 106.50 |
| 05/25/22 | 30.21 | 27.41 | 105.59 | | | | |
| 09/21/22 | 31.18 | 28.38 | 104.62 | | | | |
| 05/26/23 | 31.55 | 28.75 | 104.25 | | | | |
| BV-21 | 131.17 | 2.77 | 30-40 | 3/28/2017 | 19.25 | 16.48 | 111.92 |
| | | | | 5/9/2017 | 18.54 | 15.77 | 112.63 |
| | | | | 5/17/2017 | 18.52 | 15.75 | 112.65 |
| | | | | 6/6/2017 | 18.44 | 15.67 | 112.73 |
| | | | | 6/20/2017 | 18.76 | 15.99 | 112.41 |
| | | | | 6/27/2017 | 18.71 | 15.94 | 112.46 |
| | | | | 7/10/2017 | 18.86 | 16.09 | 112.31 |
| | | | | 7/18/2017 | 18.90 | 16.13 | 112.27 |
| | | | | 09/18/18 | 19.56 | 16.79 | 111.61 |
| | | | | 06/03/19 | 17.85 | 15.08 | 113.32 |
| | | | | 10/02/19 | 19.71 | 16.94 | 111.46 |
| | | | | 06/09/20 | 19.67 | 16.90 | 111.50 |
| | | | | 10/06/20 | 19.75 | 16.98 | 111.42 |
| | | | | 06/02/21 | 19.67 | 16.90 | 111.50 |
| | | | | 09/28/21 | 19.25 | 16.48 | 111.92 |
| 05/25/22 | 23.08 | 20.31 | 108.09 | | | | |
| 09/20/22 | 23.51 | 20.74 | 107.66 | | | | |
| 05/26/23 | 25.00 | 22.23 | 106.17 | | | | |
| MW-8 | 134.72 | 2.94 | 37-57 | 3/28/2017 | 22.60 | 19.66 | 112.12 |
| | | | | 5/9/2017 | 21.29 | 18.35 | 113.43 |
| | | | | 5/15/2017 | 21.30 | 18.36 | 113.42 |
| | | | | 6/6/2017 | 21.25 | 18.31 | 113.47 |
| | | | | 6/20/2017 | 22.08 | 19.14 | 112.64 |
| | | | | 6/27/2017 | 22.12 | 19.18 | 112.60 |
| | | | | 7/10/2017 | 22.50 | 19.56 | 112.22 |
| | | | | 7/18/2017 | 22.67 | 19.73 | 112.05 |
| | | | | 09/18/18 | 20.76 | 17.82 | 113.96 |
| | | | | 06/03/19 | 19.70 | 16.76 | 115.02 |
| | | | | 10/02/19 | 23.13 | 20.19 | 111.59 |
| | | | | 06/09/20 | 19.85 | 16.91 | 114.87 |
| | | | | 10/06/20 | 21.30 | 18.36 | 113.42 |
| | | | | 06/02/21 | 18.01 | 15.07 | 116.71 |
| | | | | 09/28/21 | 18.60 | 15.66 | 116.12 |
| 05/25/22 | 26.20 | 23.26 | 108.52 | | | | |
| 09/20/22 | 25.81 | 22.87 | 108.91 | | | | |
| 05/26/23 | 27.13 | 24.19 | 107.59 | | | | |

**TABLE 1
GROUNDWATER ELEVATION SUMMARY
PRIMARY ASH POND AREA
COLETO CREEK POWER STATION**

| Well ID | TOC Elevation (feet amsl) | Casing Stickup (feet ags) | Screen Interval (feet bgs) | Measurement Date | Depth to Water (feet btoc) | Depth to Water (feet bgs) | Water Elevation (feet amsl) |
|---------------------------|------------------------------|------------------------------|-------------------------------|---------------------|-------------------------------|------------------------------|--------------------------------|
| Downgradient Wells | | | | | | | |
| MW-4 | 137.71 | 3.41 | 50-70 | 3/28/2017 | 29.25 | 25.84 | 108.46 |
| | | | | 5/9/2017 | 28.94 | 25.53 | 108.77 |
| | | | | 5/15/2017 | 28.93 | 25.52 | 108.78 |
| | | | | 6/6/2017 | 28.83 | 25.42 | 108.88 |
| | | | | 6/20/2017 | 28.94 | 25.53 | 108.77 |
| | | | | 6/22/2017 | 29.02 | 25.61 | 108.69 |
| | | | | 7/10/2017 | 29.11 | 25.70 | 108.60 |
| | | | | 7/18/2017 | 29.15 | 25.74 | 108.56 |
| | | | | 09/18/18 | 30.54 | 27.13 | 107.17 |
| | | | | 06/03/19 | 27.92 | 24.51 | 109.79 |
| | | | | 10/02/19 | 29.89 | 26.48 | 107.82 |
| | | | | 06/09/20 | 29.86 | 26.45 | 107.85 |
| | | | | 10/06/20 | 30.65 | 27.24 | 107.06 |
| | | | | 06/02/21 | 29.74 | 26.33 | 107.97 |
| | | | | 09/28/21 | 28.60 | 25.19 | 109.11 |
| 05/25/22 | 31.13 | 27.72 | 106.58 | | | | |
| 09/19/22 | 30.90 | 27.49 | 106.81 | | | | |
| 05/26/23 | 32.18 | 28.77 | 105.53 | | | | |
| MW-5 | 122.31 | 2.74 | 39-59 | 3/30/2017 | 20.94 | 18.20 | 101.37 |
| | | | | 5/10/2017 | 20.30 | 17.56 | 102.01 |
| | | | | 5/16/2017 | 20.37 | 17.63 | 101.94 |
| | | | | 6/8/2017 | 20.61 | 17.87 | 101.70 |
| | | | | 6/21/2017 | 20.87 | 18.13 | 101.44 |
| | | | | 6/26/2017 | 21.00 | 18.26 | 101.31 |
| | | | | 7/11/2017 | 21.21 | 18.47 | 101.10 |
| | | | | 09/18/18 | 22.21 | 19.47 | 100.10 |
| | | | | 06/03/19 | 20.42 | 17.68 | 101.89 |
| | | | | 10/02/19 | 22.12 | 19.38 | 100.19 |
| | | | | 06/09/20 | 22.08 | 19.34 | 100.23 |
| | | | | 10/06/20 | 23.90 | 21.16 | 98.41 |
| | | | | 06/02/21 | 19.53 | 16.79 | 102.78 |
| | | | | 09/28/21 | 19.65 | 16.91 | 102.66 |
| | | | | 05/25/22 | 21.32 | 18.58 | 100.99 |
| 09/20/22 | 20.20 | 17.46 | 102.11 | | | | |
| 05/26/23 | 20.53 | 17.79 | 101.78 | | | | |
| MW-6 | 119.22 | 2.87 | 41-61 | 3/29/2017 | 15.76 | 12.89 | 103.46 |
| | | | | 5/11/2017 | 15.70 | 12.83 | 103.52 |
| | | | | 5/16/2017 | 15.68 | 12.81 | 103.54 |
| | | | | 6/7/2017 | 15.92 | 13.05 | 103.30 |
| | | | | 6/22/2017 | 16.34 | 13.47 | 102.88 |
| | | | | 6/28/2017 | 16.33 | 13.46 | 102.89 |
| | | | | 7/12/2017 | 16.76 | 13.89 | 102.46 |
| | | | | 7/20/2017 | 16.92 | 14.05 | 102.30 |
| | | | | 09/18/18 | 16.76 | 13.89 | 102.46 |
| | | | | 06/03/19 | 15.66 | 12.79 | 103.56 |
| | | | | 10/02/19 | 17.62 | 14.75 | 101.60 |
| | | | | 10/06/20 | 17.90 | 15.03 | 101.32 |
| | | | | 06/02/21 | 14.96 | 12.09 | 104.26 |
| | | | | 09/28/21 | 14.76 | 11.89 | 104.46 |
| | | | | 05/28/22 | 16.38 | 13.51 | 102.84 |
| 09/19/22 | 14.98 | 12.11 | 104.24 | | | | |
| 05/26/23 | 15.99 | 13.12 | 103.23 | | | | |

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GROUNDWATER ELEVATION SUMMARY
PRIMARY ASH POND AREA
COLETO CREEK POWER STATION**

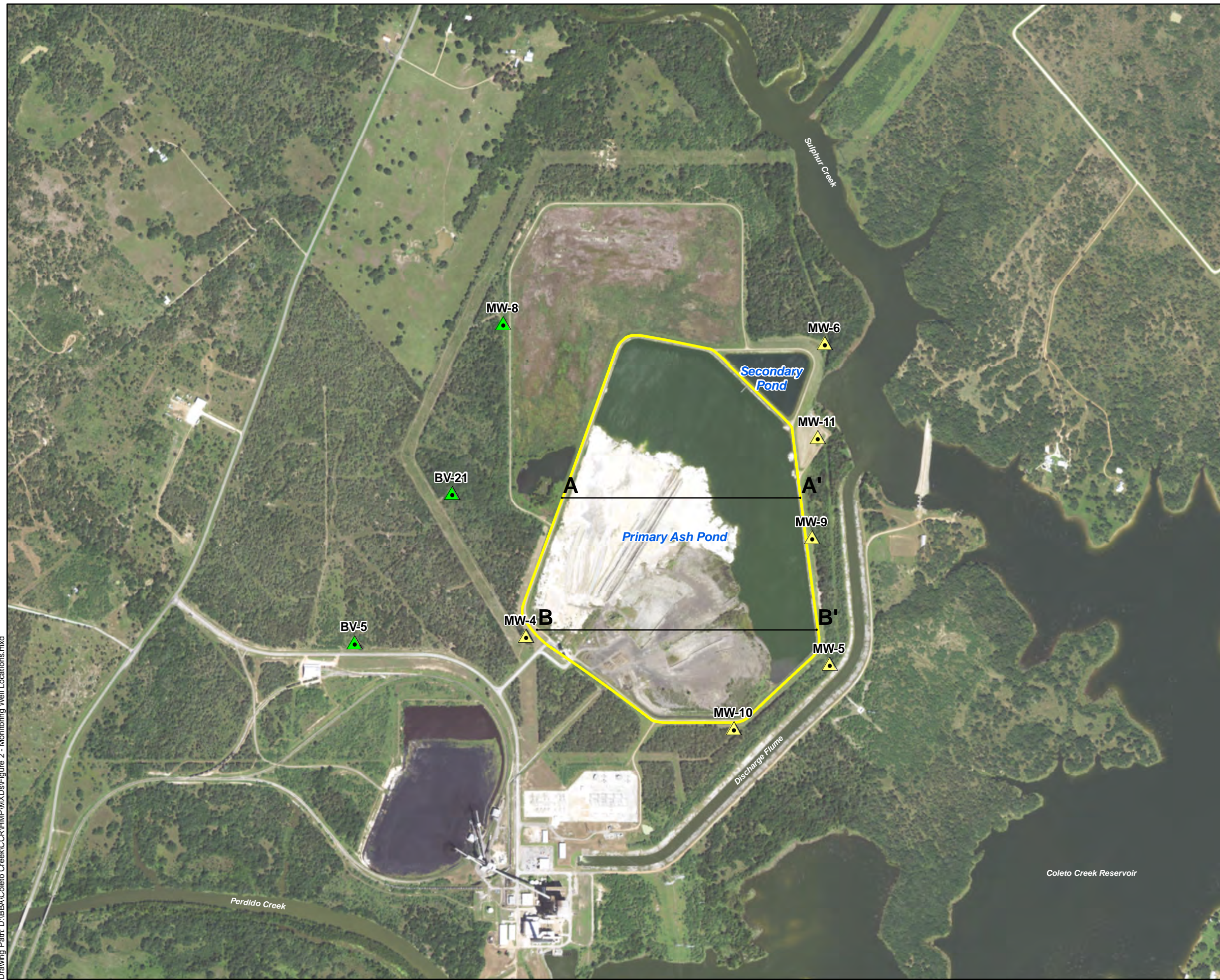
| Well ID | TOC Elevation (feet amsl) | Casing Stickup (feet ags) | Screen Interval (feet bgs) | Measurement Date | Depth to Water (feet btoc) | Depth to Water (feet bgs) | Water Elevation (feet amsl) |
|----------|------------------------------|------------------------------|-------------------------------|---------------------|-------------------------------|------------------------------|--------------------------------|
| MW-9 | 132.30 | 3.00 | 40-60 | 3/30/2017 | 28.31 | 25.31 | 103.99 |
| | | | | 5/10/2017 | 27.75 | 24.75 | 104.55 |
| | | | | 5/17/2017 | 29.87 | 26.87 | 102.43 |
| | | | | 6/7/2017 | 28.20 | 25.20 | 104.10 |
| | | | | 6/21/2017 | 28.65 | 25.65 | 103.65 |
| | | | | 6/26/2017 | 28.83 | 25.83 | 103.47 |
| | | | | 7/11/2017 | 29.12 | 26.12 | 103.18 |
| | | | | 7/19/2017 | 29.48 | 26.48 | 102.82 |
| | | | | 09/18/18 | 30.13 | 27.13 | 102.17 |
| | | | | 06/03/19 | 28.64 | 25.64 | 103.66 |
| | | | | 10/02/19 | 30.47 | 27.47 | 101.83 |
| | | | | 06/09/20 | 29.73 | 26.73 | 102.57 |
| | | | | 10/06/20 | 30.90 | 27.90 | 101.40 |
| | | | | 06/02/21 | 27.25 | 24.25 | 105.05 |
| | | | | 09/28/21 | 28.50 | 25.50 | 103.80 |
| | | | | 05/25/22 | 26.76 | 23.76 | 105.54 |
| 09/19/22 | 26.04 | 23.04 | 106.26 | | | | |
| 05/26/23 | 30.06 | 27.06 | 102.24 | | | | |
| MW-10 | 130.40 | 2.80 | 40-60 | 3/30/2017 | 27.90 | 25.10 | 102.50 |
| | | | | 5/9/2017 | 27.50 | 24.70 | 102.90 |
| | | | | 5/16/2017 | 27.57 | 24.77 | 102.83 |
| | | | | 6/8/2017 | 27.68 | 24.88 | 102.72 |
| | | | | 6/21/2017 | 27.84 | 25.04 | 102.56 |
| | | | | 6/26/2017 | 27.97 | 25.17 | 102.43 |
| | | | | 7/11/2017 | 28.14 | 25.34 | 102.26 |
| | | | | 7/19/2017 | 28.26 | 25.46 | 102.14 |
| | | | | 09/18/18 | 29.15 | 26.35 | 101.25 |
| | | | | 06/03/19 | 27.10 | 24.30 | 103.30 |
| | | | | 08/08/19 | 27.98 | 25.18 | 102.42 |
| | | | | 10/02/19 | 28.81 | 26.01 | 101.59 |
| | | | | 06/09/20 | 29.50 | 26.70 | 100.90 |
| | | | | 10/06/20 | 30.30 | 27.50 | 100.10 |
| | | | | 06/02/21 | 27.51 | 24.71 | 102.89 |
| | | | | 09/28/21 | 27.32 | 24.52 | 103.08 |
| 05/25/22 | 28.40 | 25.60 | 102.00 | | | | |
| 09/20/22 | 28.75 | 25.95 | 101.65 | | | | |
| 05/26/23 | 28.74 | 25.94 | 101.66 | | | | |
| MW-11 | 118.66 | 2.86 | 29-49 | 5/10/2017 | 14.30 | 11.44 | 104.36 |
| | | | | 5/16/2017 | 14.39 | 11.53 | 104.27 |
| | | | | 6/7/2017 | 14.56 | 11.70 | 104.10 |
| | | | | 6/21/2017 | 14.85 | 11.99 | 103.81 |
| | | | | 6/26/2017 | 14.94 | 12.08 | 103.72 |
| | | | | 7/11/2017 | 15.20 | 12.34 | 103.46 |
| | | | | 7/19/2017 | 15.31 | 12.45 | 103.35 |
| | | | | 09/18/18 | 15.22 | 12.36 | 103.44 |
| | | | | 06/03/19 | 14.82 | 11.96 | 103.84 |
| | | | | 10/02/19 | 15.93 | 13.07 | 102.73 |
| | | | | 06/09/20 | 14.54 | 11.68 | 104.12 |
| | | | | 10/06/20 | 15.10 | 12.24 | 103.56 |
| | | | | 06/02/21 | 13.80 | 10.94 | 104.86 |
| | | | | 09/28/21 | 14.50 | 11.64 | 104.16 |
| | | | | 05/25/22 | 13.80 | 10.94 | 104.86 |
| | | | | 09/19/22 | 13.59 | 10.73 | 105.07 |
| 05/26/23 | 15.43 | 12.57 | 103.23 | | | | |

Notes:




Abbreviations: ags - above ground surface; amsl - above mean sea level; bgs - below ground surface; btoc - below top of casing.

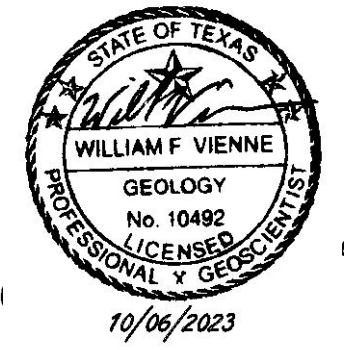
FIGURES

Plot Date: 10/13/2017 - 6:10:57 PM. Plotted by: E.Ficker
 Drawing Path: D:\BBA\Coletto Creek\CCR\HMP\MXDs\Figure 2 - Monitoring Well Locations.mxd

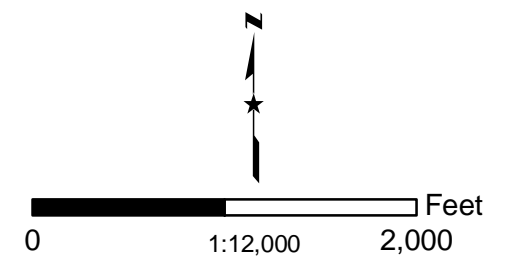


Explanation

-  Downgradient CCR Monitoring Well
-  Upgradient/Background CCR Monitoring Well
-  CCR Monitored Unit



Ref: Orthoimagery from ArGIS World Imagery Server

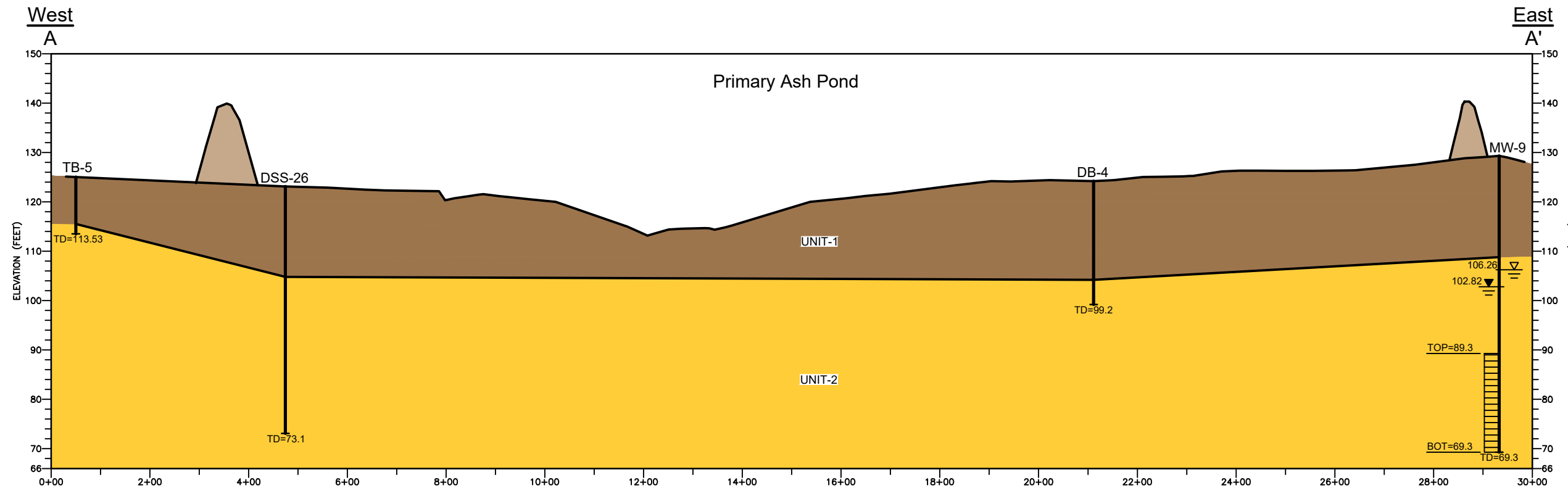


Coletto Creek Power, LLC

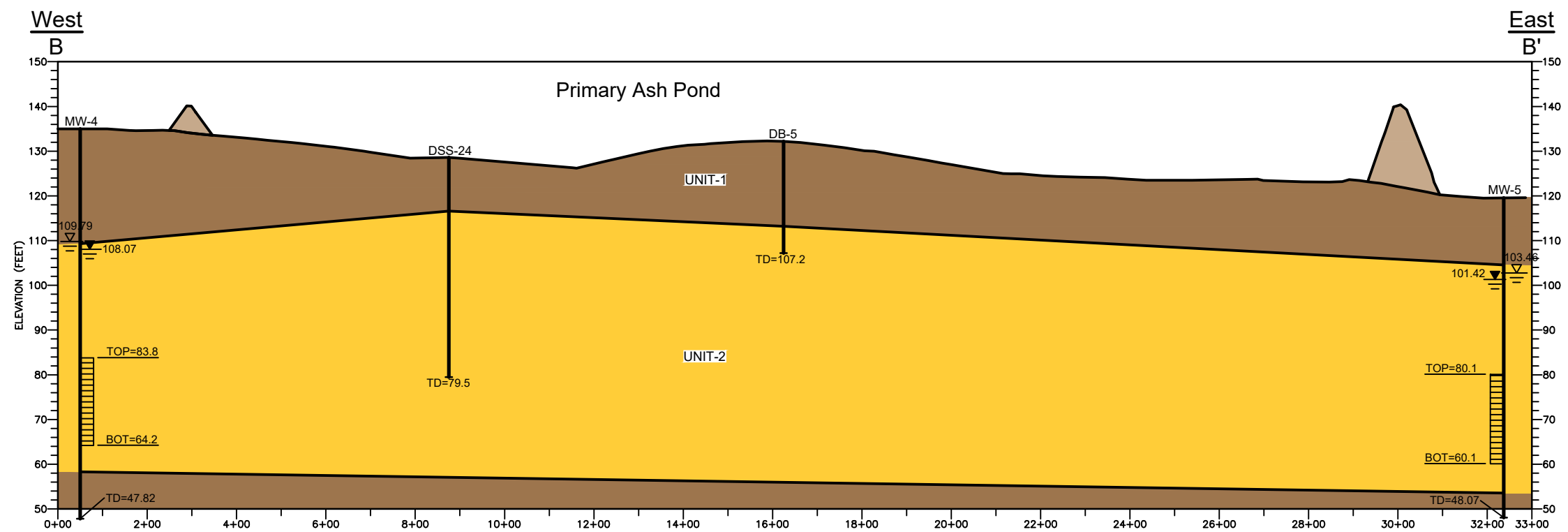
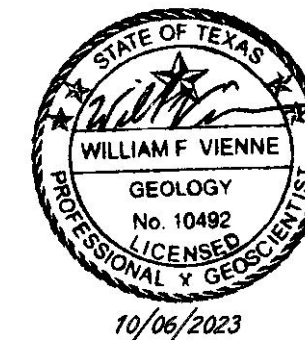
**Figure 1
 Monitoring Well and
 Cross Section Locations**

| | | |
|----------------|--------------|-----------|
| PROJECT: 17258 | BY: EEF | REVISIONS |
| DATE: Oct 2017 | CHECKED: CEB | |

Bullock, Bennett & Associates, LLC
 Engineering and Geoscience
 Texas Registrations: Engineering F-8542, Geoscience 50127



PROFILE B-B' (LOOKING NORTH)
SCALE: 1"=240'(H), 1"=24'(V)



PROFILE C-C' (LOOKING NORTH)
SCALE: 1"=300'(H), 1"=30'(V)

UNIT DESCRIPTIONS:

- Unit 1 - Sandy CLAY and Silty CLAY with some Caliche. Surficial unit.
- Unit 2 - Sand and Silty SAND with caliche and CLAY/Sandy CLAY lenses. First groundwater-bearing unit.
- Unit 3 - CLAY and Silty CLAY. Basal unit.
- Backfilled (Unit 1) Material

NOTES:

Pre-construction topography and site stratigraphy are estimated and interpolated based on data in Sargent & Lundy (1978), pre- and post-construction topographic data, and various post-construction borings located outside of pond footprint.

Max CCR Monitoring Program Groundwater Potentiometric Surface (feet amsl) 2017 to 2023

Average CCR Monitoring Program Groundwater Potentiometric Surface (feet amsl) 2017 to 2023

Coletto Creek Power, LLC

FIGURE 2

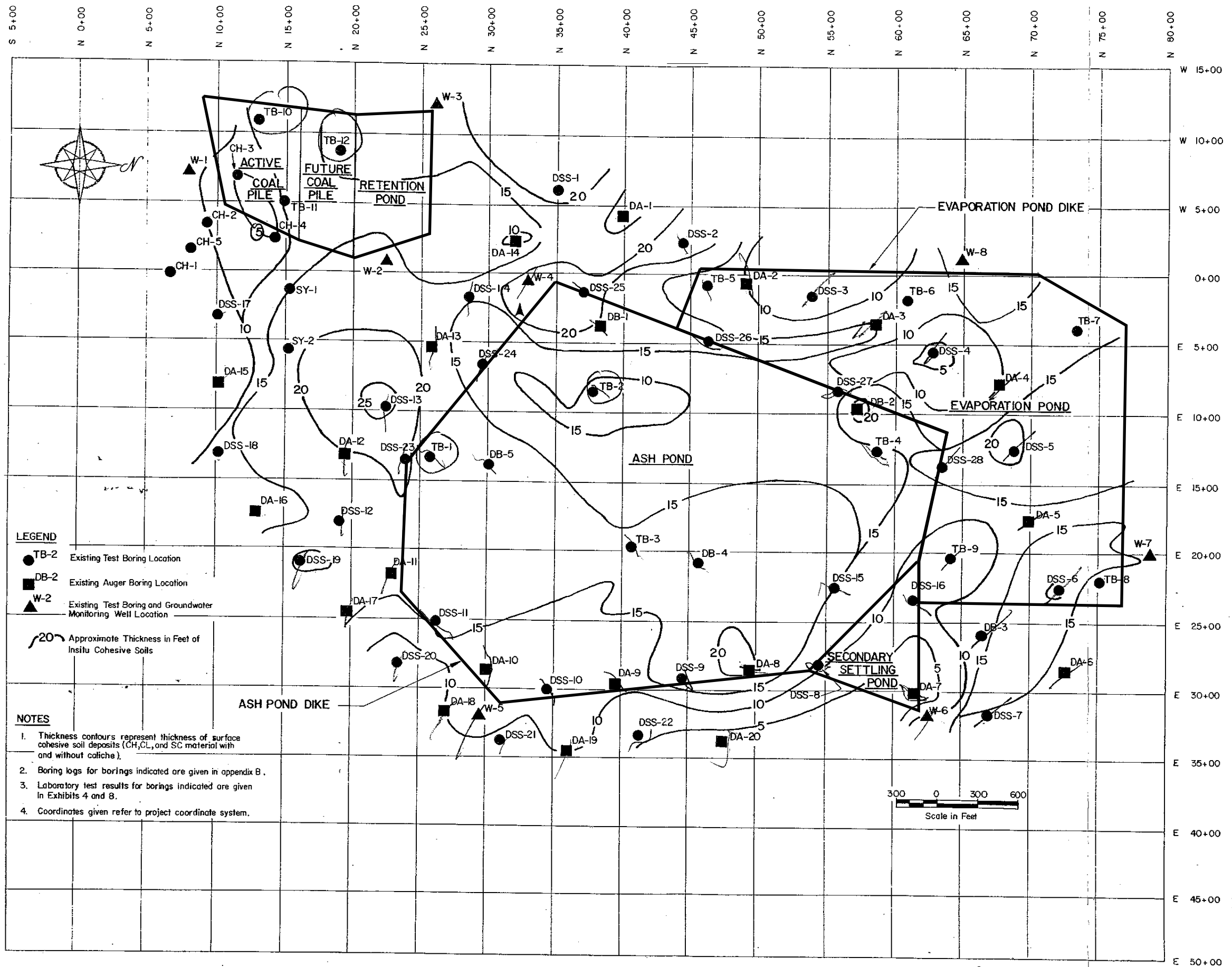
GENERALIZED GEOLOGIC
CROSS SECTIONS A-A' AND B-B'

PROJECT: 23643-07 DATE: AUG 2023 BY: RCAD-RR CHECKED: CBB

Bullock, Bennett & Associates, LLC
ENGINEERING AND GEOSCIENCE
Texas Registrations: Engineering F-8542, Geoscience 50127

APPENDIX A

**S&L (1978) Thickness Map of In-Situ Cohesive Soils” (i.e., Unit 1 thickness map)
and Boring Logs**



BORING LOCATION PLAN AND THICKNESS CONTOURS OF INSITU COHESIVE SOILS



APPENDIX B

**SOIL BORING LOGS FOR COAL PILE AND WASTEWATER
POND FACILITIES**

GENERAL NOTES FOR LOG OF BORINGS

GRANULAR SOILS

| Component | Sieve Size Range | Descriptive Term | Percent By Weight |
|-----------------|------------------------|------------------|-------------------|
| Boulders | > 8 in. | Trace | 0 - 9 |
| Cobbles | 8 in. - 3 in. | Little | 10 - 19 |
| Gravel (Coarse) | 3 in. - 3/4 in. | Some | 20 - 34 |
| Gravel (Fine) | 3/4 in. - #4 (4.75mm.) | And | 35 - 50 |
| Sand (Coarse) | #4 - #10 (2.00mm.) | | |
| Sand (Medium) | #10 - #40 (0.425mm.) | | |
| Sand (Fine) | #40 - #200 (0.074mm.) | | |
| Silt | < #200 | | |

DEGREE OF COMPACTNESS OF GRANULAR SOILS

| N - Blows/ft | Description |
|--------------|-----------------|
| < 4 | Very Loose |
| 4 - 9 | Loose |
| 10 - 29 | Medium Dense |
| 30 - 49 | Dense |
| 50 - 80 | Very Dense |
| > 80 | Extremely Dense |

CONSISTENCY OF COHESIVE SOILS

| N - Blows/ft | Unconfined Compressive Strength, q_u , tsf | Consistency |
|--------------|--|--------------|
| < 2 | $q_u < 0.25$ | Very Soft |
| 2 - 3 | $q_u < 0.50$ | Soft |
| 4 - 7 | $q_u < 1.00$ | Medium Stiff |
| 8 - 15 | $q_u < 2.00$ | Stiff |
| 16 - 32 | $q_u < 4.00$ | Very Stiff |
| > 32 | q_u | Hard |

N = Number of blows of a 140 lb. hammer falling 30 in. required to drive a 2 in. O. D. split-spoon sampler one foot.

INTERMEDIATE SOILS

| Descriptive Term | Plasticity Index |
|--------------------------------------|------------------|
| SILT | 0 - 3 |
| SILT, trace Clay or SAND, trace Clay | 4 - 7 |

COHESIVE SOILS

| Descriptive Term | Plasticity Index |
|------------------------------------|------------------|
| Clayey SILT or ORGANIC Clayey SILT | 8 - 14 |
| Silty CLAY or ORGANIC Silty CLAY | 15 - 30 |
| CLAY or ORGANIC CLAY | > 30 |

SYMBOLS AND ABBREVIATIONS

- Ground water level, at the time of boring operation
- Ground water level, at the time noted, after boring operations
- Double tube core barrel (CB)
- Split spoon sample (SS)
- Shelby tube sample (ST)
- Denison sample (DS)
- Osterberg Piston Tube sample (OS)

RQD INTERPRETATIONS

RQD = Total length of recovered core pieces measuring 4 in. or more in length, expressed as a percentage of the total length of the core run.

| Descriptive Term | RQD, Percentage |
|------------------|-----------------|
| Very Poor | 0 - 25 |
| Poor | 26 - 50 |
| Fair | 51 - 75 |
| Good | 76 - 90 |
| Excellent | 91 - 100 |

- PT Percolation Test
- WPT Water Pressure Test
- VS Vane Shear Test
- SA Sieve Analysis
- P Permeability Test
- U Unconfined Compression Test
- DS Direct Shear Test
- T Triaxial Compression Test
- C Consolidation Test
- DT Dynamic Triaxial Compression Test
- DSS Dynamic Simple Shear Test
- R Resonant Column Test







COLETO CREEK POWER STATION
GENERAL NOTES FOR LOG OF BORINGS

CENTRAL POWER & LIGHT CO.

SARGENT & LUNDY
ENGINEERS

PROJECT NUMBER 4857

SOIL CLASSIFICATION CHART

| MAJOR DIVISIONS | | | GRAPH SYMBOL | LETTER SYMBOL | TYPICAL DESCRIPTION | | |
|---|--|---|---|---------------|---|--|--|
| COARSE GRAINED SOILS More than 50% of material is LARGER than No. 200 sieve size | GRAVEL AND GRAVELLY SOILS CLEAN GRAVELS (little or no fines) | | | GW | Well-graded gravels, gravel-sand mixtures, little or no fines. | | |
| | | | | GP | Poorly-graded gravels, gravel-sand mixtures, little or no fines. | | |
| | | | | GM | Silty gravels, gravel-sand-silt mixture. | | |
| | More than 50% of coarse fraction RETAINED on No. 4 sieve | GRAVELS WITH FINES (appreciable amount of fines) | | | GC | Clayey gravels, gravel-sand-clay mixtures. | |
| | | | SAND AND SANDY SOILS CLEAN SAND (little or no fines) | | | SW | Well-graded sands, gravelly sands, little or no fines. |
| | | | | | | SP | Poorly-graded sands, gravelly sands, little or no fines. |
| More than 50% of coarse fraction PASSING No. 4 sieve | SANDS WITH FINES (appreciable amount of fines) | |  | SM | Silty sands, sand-silt mixtures. | | |
| | | |  | SC | Clayey sands, sand-clay mixtures. | | |
| FINE GRAINED SOILS More than 50% of material is SMALLER than No. 200 sieve size | SILTS AND CLAYS Liquid limit <u>LESS</u> than 50 | |  | ML | Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity. | | |
| | | |  | CL | Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays. | | |
| | | |  | OL | Organic silts and organic silty clays of low plasticity. | | |
| | SILTS AND CLAYS Liquid limit <u>GREATER</u> than 50 | | | MH | Inorganic silts, micaceous or diatomaceous fine sand or silty soils. | | |
| | | |  | CH | Inorganic clays of high plasticity, fat clays. | | |
| | | | | OH | Organic clays of medium to high plasticity, organic silts. | | |
| HIGHLY ORGANIC SOILS | | | | PT | Peat, humus, swamp soils with high organic contents. | | |

NOTES:

1. Dual letter symbols are used on the boring logs to indicate borderline classifications.
2. Graphic symbols are shown for only those soils encountered in the field study.
3. For borderline classifications the graphic symbols shown on the boring logs correspond to the most predominate classification.

COLETO CREEK POWER STATION
SOIL CLASSIFICATION CHART

CENTRAL POWER & LIGHT CO.

SARGENT & LUNDY

ENGINEERS

PROJECT NUMBER 4857

BORING NO. W-1

SHEET 1 OF 2

| DEPTH (ft.) | SAMPLE NUMBER AND TYPE | BLOWS/6" ON SAMPLER (RECOVERY, %) | POCKET PENETROMETER MEASUREMENT (1st) | FIELD MOISTURE CONTENT (%) | LIQUID LIMIT (%) | PLASTIC LIMIT (%) | OTHER TESTS | CORE RECOVERY (%) | RQD (%) | PROJECT INFORMATION | | DEPTH (ft.) | ELEVATION (ft., MSL) |
|-------------|------------------------|-----------------------------------|---------------------------------------|----------------------------|------------------|-------------------|-------------|-------------------|---------|---|---|-------------|----------------------|
| | | | | | | | | | | PROJECT: Coletto Creek Power Station | CLIENT: Central Power & Light Co. | | |
| | | | | | | | | | | FEATURE: Monitoring Well W-1 | | | |
| | | | | | | | | | | SURFACE ELEVATION: 112.0 Ft TOTAL DEPTH: 56.5 Ft | | | |
| | | | | | | | | | | LOCATION: N 8+00 W 7+30 | | | |
| | | | | | | | | | | DEPTH TO WATER DURING DRILLING: 31 Ft DATE: 3-29-78 | | | |
| | | | | | | | | | | DRILLED BY: Trinity Testing Laboratories, Inc. | | | |
| | | | | | | | | | | LOGGED BY: Sargent & Lundy | | | |
| | | | | | | | | | | TESTED BY: Trinity Testing Laboratories, Inc. | | | |
| | | | | | | | | | | SYMBOLS DESCRIPTION | | | |
| 0 | | | | | | | | | | SM | SAND, silty, coarse to fine, brown. | 0 | 112.0 |
| | ST1 | (79) | | 13.9 | 51 | 19 | SA | | | CH | CLAY, silty, some sand, gray. | | 111.2 |
| 5 | | | | | | | | | | | | | 108.0 |
| | ST2 | (88) | | | | | | | | CL | CLAY, sandy, gray, with some Caliche. | 5 | |
| | ST3 | (82) | | 12.3 | | | SA | | | | | | 103.0 |
| 10 | | | | | | | | | | SC | SAND, clayey, medium to fine, gray. | 10 | 101.5 |
| | ST4 | (83) | | 6.0 | 38 | 21 | SA | | | SP-SM | SAND, coarse to fine, little gravel, trace silt, white. | | |
| 15 | | | | | | | | | | | | | 15 |
| | ST5 | (25) | | | | | | | | | | | 15 |
| 20 | | | | | | | | | | | - grades to medium to fine, no gravel. | 20 | 91.5 |
| | SS6 | 2-19-14 (100) | | | | | | | | | | | 20 |
| 25 | | | | | | | | | | SM-SC | SAND, clayey and silty, trace gravel, white. | 25 | 28.5 |
| | SS7 | 4-6-5 (100) | | | | | SA | | | | | | 25 |
| 30 | | | | | | | | | | | | | 30 |
| | SS8 | 5-14-17 (100) | | | | | | | | SM | SAND, silty, medium to fine, gray and brown. | 30 | 30.9 |
| 35 | | | | | | | | | | | | | 35 |
| | SS9 | 15-75-44 (100) | | | | | | | | | | | 35 |
| 40 | | | | | | | | | | CL-ML | CLAY, silty, some fine sand, calcareous, white. (Caliche) | 40 | 74.0 |
| | SS10 | 68-100/6 (100) | | | 19 | 14 | SA | | | | | | 40 |
| 45 | | | | | | | | | | SM | SAND, silty, medium to fine, white. | 45 | 70.0 |
| | SS11 | 19-40-100/3 (100) | | | | | | | | | | | 45 |
| 50 | | | | | | | | | | | - cemented thin layer at 46.3 Ft. | 50 | 62.0 |

| REVISION | DATE | APPROVED BY | DESCRIPTION |
|----------|----------|-------------|-------------|
| 0 | 10-24-78 | D. E. Brown | For Use |
| | | | |
| | | | |
| | | | |
| | | | |

**COLETO CREEK POWER STATION
LOG OF BORING W-1**

CENTRAL POWER & LIGHT CO.



PROJECT NUMBER 4857

| DEPTH (ft.) | SAMPLE NUMBER AND TYPE | BLOWS/8" ON SAMPLER (RECOVERY, %) | POCKET PENETROMETER MEASUREMENT (1in) | FIELD MOISTURE CONTENT (%) | LIQUID LIMIT (%) | PLASTIC LIMIT (%) | OTHER TESTS | CORE RECOVERY (%) | ROD (%) | SYMBOLS | | DEPTH (ft.) | ELEVATION (ft., MSL) |
|-------------|------------------------|-----------------------------------|---------------------------------------|----------------------------|------------------|-------------------|-------------|-------------------|---------|-------------|---|-------------|----------------------|
| | | | | | | | | | | DESCRIPTION | | | |
| 50 | SS12 | 58-70-44 (100) | | | | | | | | SC | SAND, clayey, coarse to fine, white. | 52.0 | 61.0 |
| 55 | SS13 | 10-15-17 (100) | | | | SA | | | | CL | CLAY, silty, trace fine sand, calcareous white to gray. | | |
| 60 | | | | | | | | | | | END OF BORING - 56.5 Ft Groundwater encountered at 31.0 Ft | 55.5 | |

| REVISION | DATE | APPROVED BY | DESCRIPTION |
|----------|----------|-------------|-------------|
| 0 | 10-24-98 | D.G. Malone | For Use |
| | | | |
| | | | |
| | | | |

COLETO CREEK POWER STATION
LOG OF BORING W-1 (cont'd)

CENTRAL POWER & LIGHT CO.

SARGENT & LUNDY
ENGINEERS

BORING NO. W-2

SHEET 1 OF 2


| | |
|--|----------------------|
| PROJECT: Coieto Creek Power Station | |
| CLIENT: Central Power & Light Co. | |
| FEATURE: Monitoring Well W-2 | |
| SURFACE ELEVATION: 124.16 F | TOTAL DEPTH: 66.5 Ft |
| LOCATION: N 22+30 W 1+20 | |
| DEPTH TO WATER DURING DRILLING: 40.5 Ft | DATE: 3-27-78 |
| DRILLED BY: Trinity Testing Laboratories, Inc. | |
| LOGGED BY: Sargent & Lundy | |
| TESTED BY: Trinity Testing Laboratories, Inc. | |

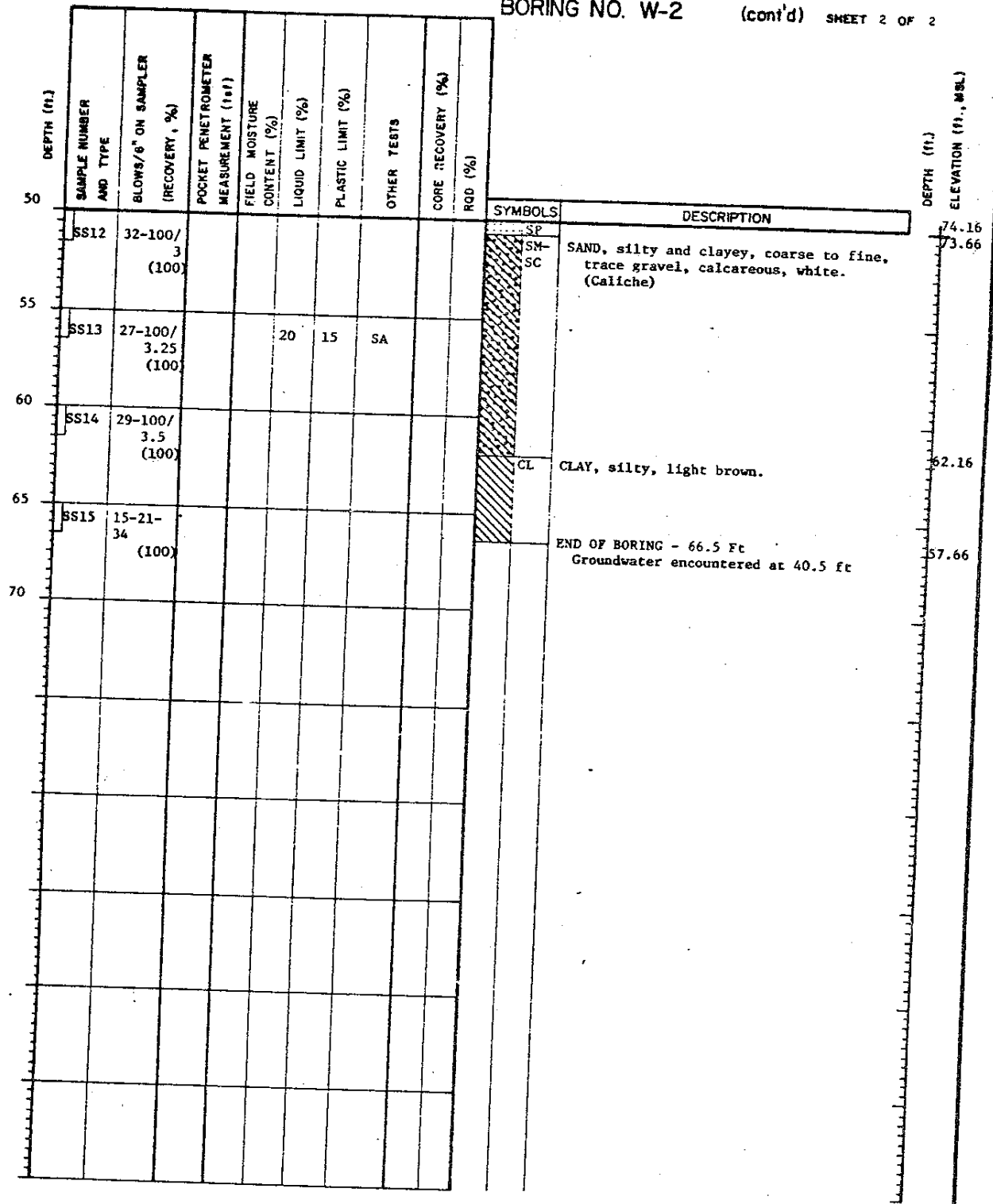
| DEPTH (ft.) | SAMPLE NUMBER AND TYPE | BLOWS/6" ON SAMPLER (RECOVERY, %) | POCKET PENETROMETER MEASUREMENT (lbf.) | FIELD MOISTURE CONTENT (%) | LIQUID LIMIT (%) | PLASTIC LIMIT (%) | OTHER TESTS | CORE RECOVERY (%) | ROD (%) | SYMBOLS | DESCRIPTION | DEPTH (ft.) | ELEVATION (ft., MSL) |
|-------------|------------------------|-----------------------------------|--|----------------------------|------------------|-------------------|-------------|-------------------|---------|---------|--|-------------|----------------------|
| 0 | | | | | | | | | | | | 0 | 124.16 |
| 3 | ST1 | (100) | | | | | | | | SC | SAND, silty, coarse to fine, brown. | 3 | 123.66 |
| 5 | ST2 | (89) | | 14.3 | 48 | 21 | SA | | | | | 5 | |
| 7 | ST3 | (94) | | | | | SA | | | | | 7 | |
| 10 | ST4 | (100) | | | | | | | | | | 10 | |
| 18 | ST5 | (89) | | | | | SA | | | | | 15 | 109.16 |
| 20 | SS6 | 18-16-27 (100) | | | | | | | | SP-SM | SAND, coarse to fine, trace silt, white. | 20 | |
| 26 | SS7 | 11-13-16 (100) | | | | | | | | | | 25 | |
| 30 | SS8 | 14-100 (100) | | | | | | | | SP | SAND, medium to fine, trace silt, white. - cemented 1 ft layer. | 30 | |
| 38 | SS9 | 14-100 (100) | | | | | | | | | | 35 | |
| 40 | SS10 | 19-30-61 (100) | | | | | | | | | | 40 | 83.66 |
| 45 | SS11 | 16-36-43 (100) | | | | | | | | | | 45 | |
| 50 | | | | | | | | | | | | 50 | |

| REVISION | DATE | APPROVED BY | DESCRIPTION |
|----------|----------|----------------|-------------|
| 0 | 10-24-78 | DB [Signature] | For Use |
| | | | |
| | | | |
| | | | |

COLETO CREEK POWER STATION
LOG OF BORING W-2

CENTRAL POWER & LIGHT CO.





| REVISION | DATE | DESCRIPTION |
|----------|------------------------|-------------|
| | APPROVED BY | |
| 0 | 10-24-78 D.C. Dwyer | For Use |
| | | |
| | | |
| | | |

COLETO CREEK POWER STATION
LOG OF BORING W-2 (cont'd)

CENTRAL POWER & LIGHT CO.

SARGENT & LUNDY
ENGINEERS

PROJECT NUMBER 4057

BORING NO. W-3

SHEET 1 OF 2

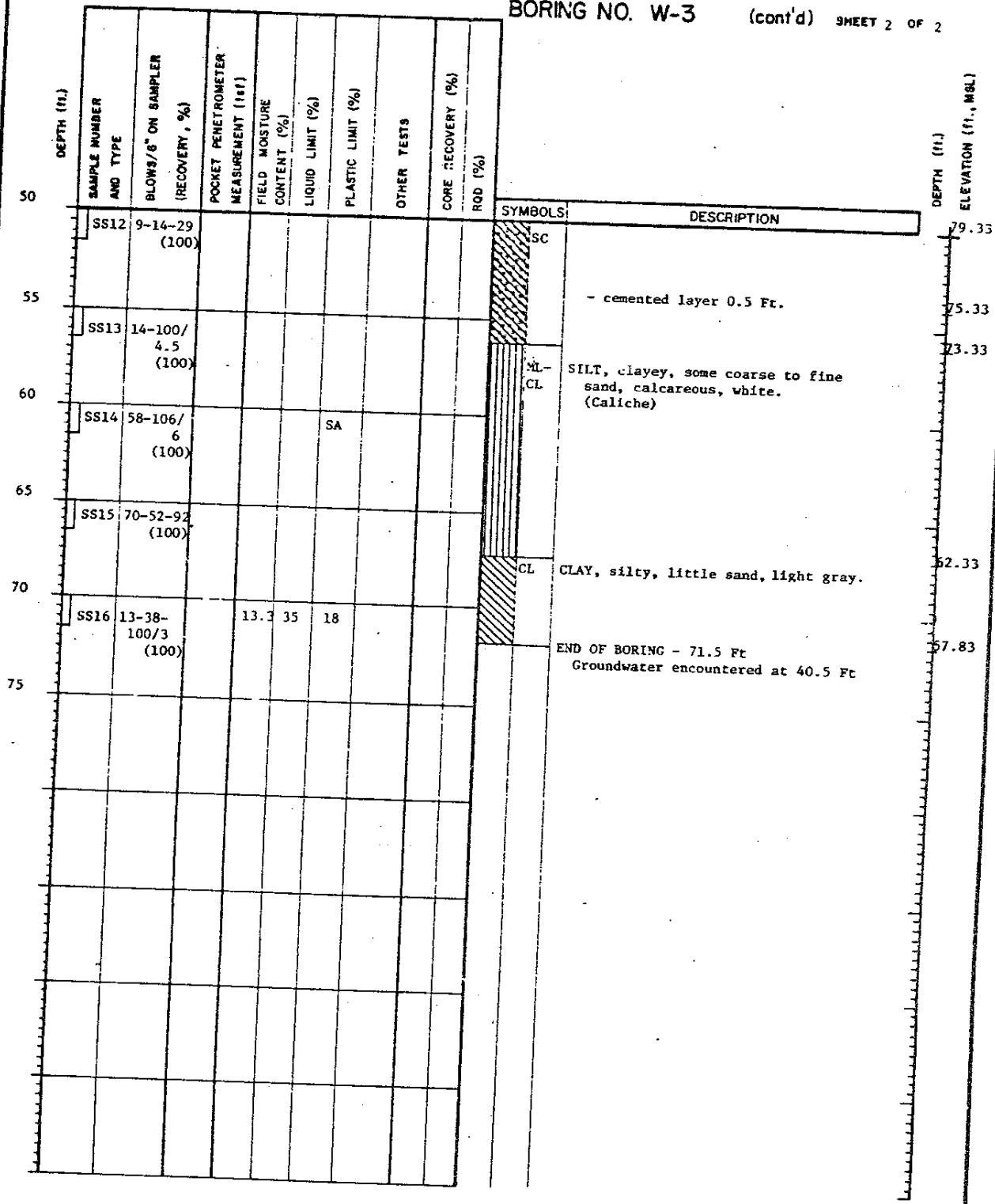
| DEPTH (ft.) | SAMPLE NUMBER AND TYPE | BLOWS/6" ON SAMPLER (RECOVERY, %) | POCKET PENETROMETER MEASUREMENT (10C) | FIELD MOISTURE CONTENT (%) | LIQUID LIMIT (%) | PLASTIC LIMIT (%) | OTHER TESTS | CORE RECOVERY (%) | ROD (%) | PROJECT INFORMATION | | DEPTH (ft.) | ELEVATION (ft., MSL) |
|-------------|------------------------|-----------------------------------|---------------------------------------|----------------------------|------------------|-------------------|-------------|-------------------|---------|---|--|-------------|----------------------|
| | | | | | | | | | | PROJECT: Colero Creek Power Station | CLIENT: Central Power & Light Co. | | |
| 0 | | | | | | | | | | FEATURE: Monitoring Well W-3 | | 0 | 129.33 |
| | | | | | | | | | | SURFACE ELEVATION: 129.33 Ft TOTAL DEPTH: 71.5 Ft | | | |
| | | | | | | | | | | LOCATION: N 25+00 W 12+50 | | | |
| | | | | | | | | | | DEPTH TO WATER DURING DRILLING: 40.5 Ft DATE: 3-28-78 | | | |
| | | | | | | | | | | DRILLED BY: Trinity Testing Laboratories Inc. | | | |
| | | | | | | | | | | LOGGED BY: Sargent & Lundy | | | |
| | | | | | | | | | | TESTED BY: Trinity Testing Laboratories, Inc. | | | |
| | | | | | | | | | | SYMBOLS | DESCRIPTION | | |
| 0 | ST1 | (72) | | 11.9 | 40 | 17 | SA | | | SC | SAND, clayey, medium to fine, brown. - grades to gray. | 0 | 129.33 |
| 5 | ST2 | (89) | | 12.6 | 46 | 18 | SA, P | | | | | 5 | 126.33 |
| 7 | ST3 | (92) | | | | | | | | | | | |
| 10 | ST4 | (88) | | | | | | | | | | 10 | 118.83 |
| 15 | ST5 | (78) | | 3.3 | | NP | | | | | | 15 | 117.33 |
| 20 | SS6 | 7-16-19 (100) | | | | | SA | | | SP-SM | SAND, coarse to fine, trace silt, calcareous, white. | 20 | 110.33 |
| 25 | SS7 | 11-20-30 (100) | | | | | | | | | | 25 | |
| 30 | SS8 | 10-21-39 (100) | | | | | | | | | | 30 | |
| 35 | SS9 | 16-17-17 (100) | | | | | | | | | | 35 | 96.33 |
| 36 | | | | | | | | | | | | 36 | 93.83 |
| 40 | SS10 | 9-17-17 (100) | | | | | | | | SC | SAND, clayey, light brown | 40 | 89.33 |
| 41 | | | | | | | | | | SP-SM | SAND, medium to fine, trace silt, white. - grades to coarse to fine, brown. | 41 | 88.33 |
| 42 | | | | | | | | | | | | 42 | 87.33 |
| 45 | SS11 | 4-9-22 (100) | | | | | SA | | | | | 45 | 85.33 |
| 46 | | | | | | | | | | SC | SAND, clayey, medium to fine, gray. | 46 | 83.83 |
| 50 | | | | | | | | | | | | 50 | |

| REVISION | DATE | DESCRIPTION |
|----------|--------------------------|-------------|
| | APPROVED BY | |
| 0 | 10-20-78 D.G. D. WINE | For Use |
| | | |
| | | |
| | | |

COLETO CREEK POWER STATION LOG OF BORING W-3

CENTRAL POWER & LIGHT CO.





| REVISION | DATE | APPROVED BY | DESCRIPTION |
|----------|----------|-------------------|-------------|
| 0 | 10-24-78 | D. B. [Signature] | For Use |
| | | | |
| | | | |
| | | | |
| | | | |

COLETO CREEK POWER STATION
LOG OF BORING W-3 (cont'd)

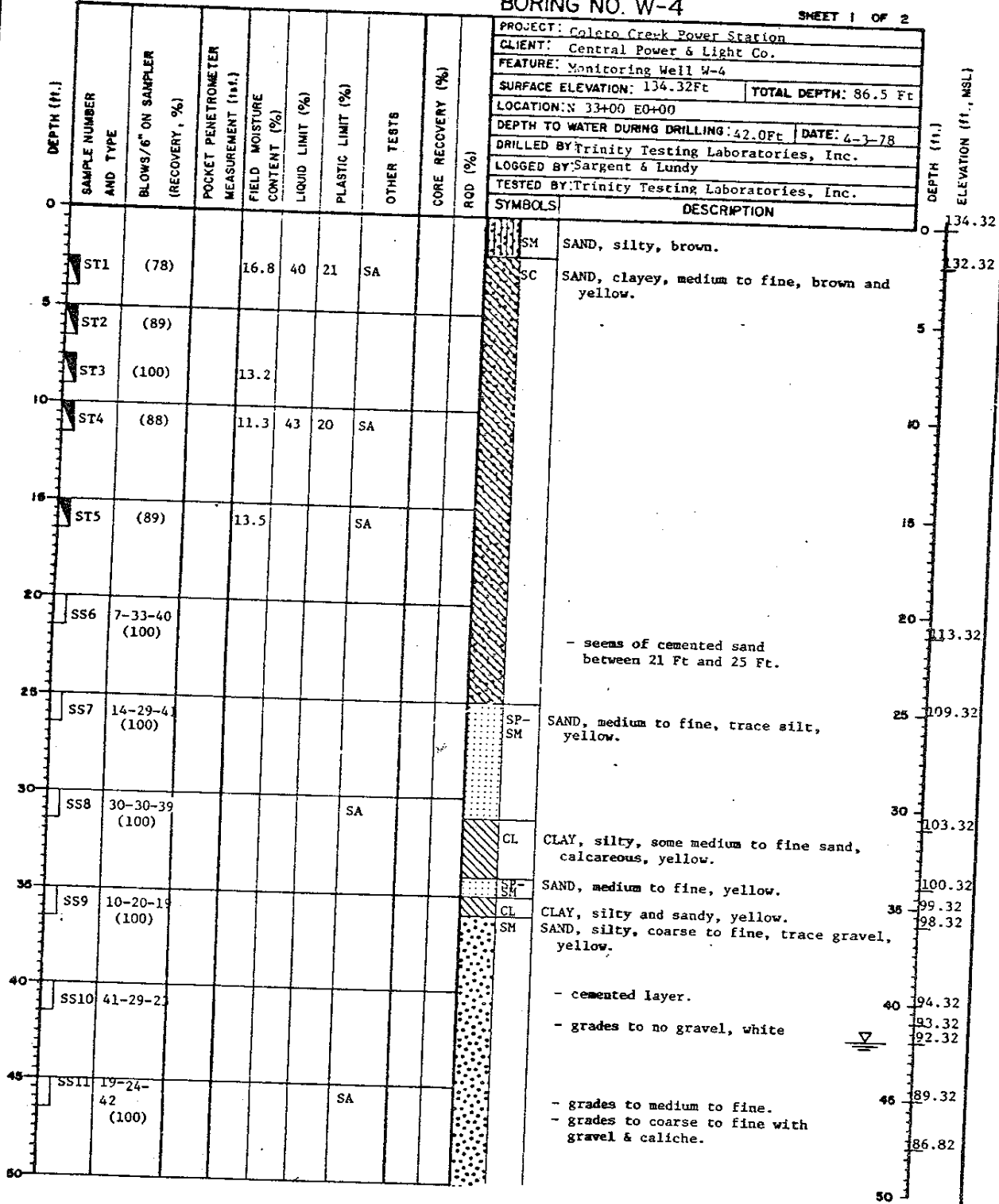
CENTRAL POWER & LIGHT CO.

SARGENT & LUNDY
ENGINEERS

PROJECT NUMBER 4857

BORING NO. W-4


SHEET 1 OF 2



| REVISION | DATE | DESCRIPTION |
|----------|------------------------------|-------------|
| | APPROVED BY | |
| 0 | 16-24-78 D.E. [Signature] | For Use |
| | | |
| | | |
| | | |

COLETO CREEK POWER STATION
LOG OF BORING W-4

CENTRAL POWER & LIGHT CO.



| DEPTH (ft.) | SAMPLE NUMBER AND TYPE | BLOWS/8" ON SAMPLER (RECOVERY, %) | POCKET PENETROMETER MEASUREMENT (100f) | FIELD MOISTURE CONTENT (%) | LIQUID LIMIT (%) | PLASTIC LIMIT (%) | OTHER TESTS | CORE RECOVERY (%) | ROD (%) | SYMBOLS | | DESCRIPTION | DEPTH (ft.) | ELEVATION (ft., MSL) |
|-------------|------------------------|-----------------------------------|--|----------------------------|------------------|-------------------|-------------|-------------------|---------|---------|--|--|-------------|----------------------|
| | | | | | | | | | | | | | | |
| 50 | SS12 | 106/6 (100) | | | | | | | | SM | | | 84.32 | |
| 55 | SS13 | 32-48-26 (100) | | | | | | | | CL | | CLAY, sandy, yellow and gray. | 76.82 | |
| 60 | SS14 | 23-38-34 (100) | | | | | SA | | | SC-GC | | SAND and Gravel, clayey, gray, with cemented layers. | 74.32 | |
| 65 | SS15 | 48-100/2 (100) | | | | | | | | CL | | CLAY, sandy, gray. - grades to yellow | 69.32 | |
| 70 | SS16 | 18-37-100/5 (100) | | | | | SA | | | SM | | SAND, silty, coarse to fine, yellow. | 66.82 | |
| 75 | SS17 | 22-46-66 (100) | | | | | SA | | | ML | | Caliche, (Chalk) | 62.32 | |
| 80 | SS18 | 19-42-56 (100) | | 46 | 23 | | SA | | | SM | | SAND, silty, coarse to fine, yellow. | 60.82 | |
| 85 | SS19 | 32-53-84 (100) | | | | | | | | CL | | CLAY, silty, little medium to fine sand, gray and brown with pockets of Caliche. | 58.32 | |
| 90 | | | | | | | | | | | | END OF BORING - 86.5 Ft Groundwater encountered at 42.0 Ft. | 47.82 | |

| REVISION | DATE | DESCRIPTION |
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| | APPROVED BY | |
| 0 | 10-24-78 D. G. B. [Signature] | For Use |
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COLETO CREEK POWER STATION
LOG OF BORING W-4 (cont'd)

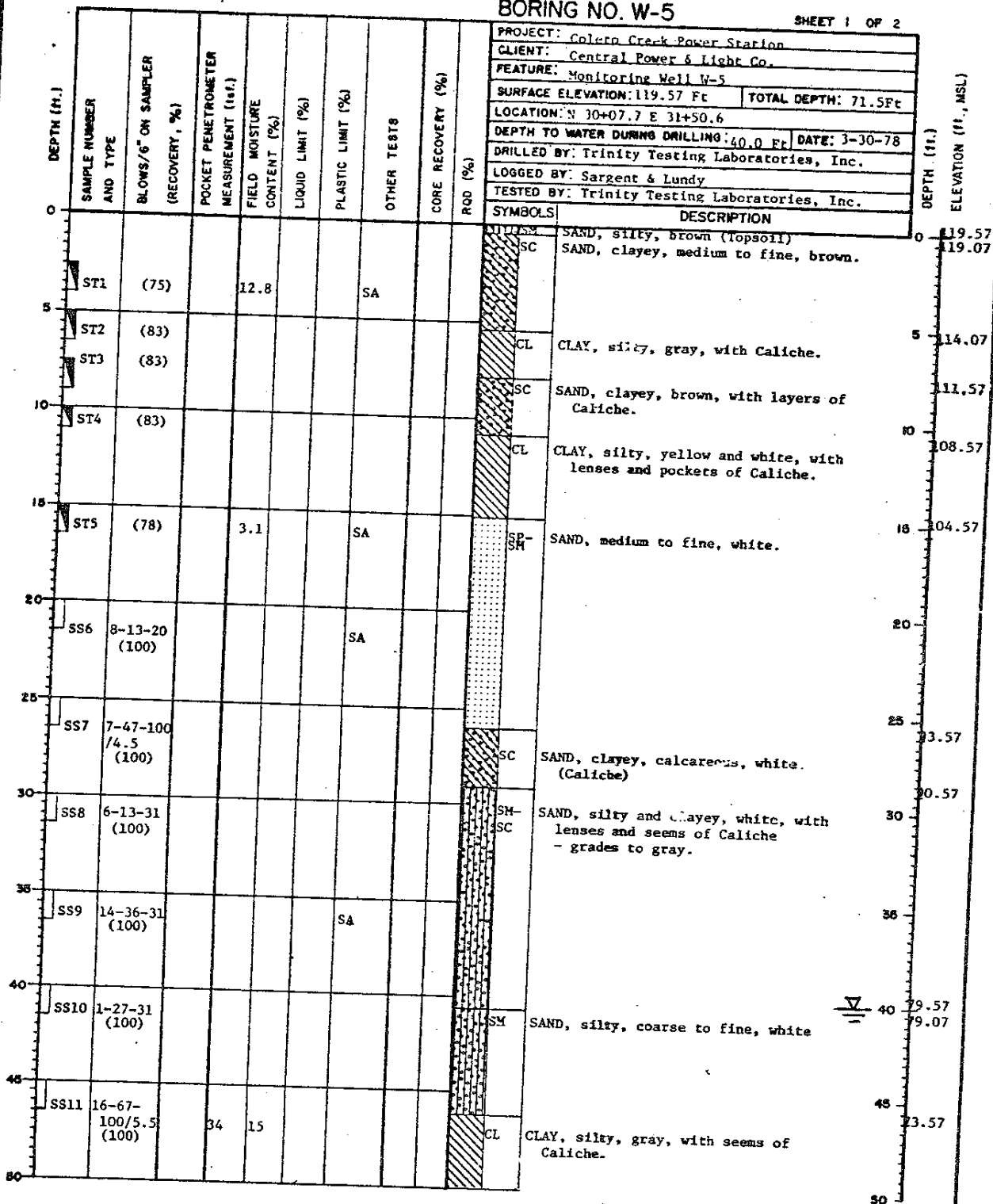
CENTRAL POWER & LIGHT CO.

SARGENT & LUNDY
ENGINEERS

PROJECT NUMBER 4857

BORING NO. W-5

SHEET 1 OF 2



| REVISION | DATE | DESCRIPTION |
|----------|-------------------------|-------------|
| | APPROVED BY | |
| 0 | 10-24-78 D.G. Berlin | For Use |
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**COLETO CREEK POWER STATION
LOG OF BORING W-5**

CENTRAL POWER & LIGHT CO.

SARGENT & LUNDY
ENGINEERS

PROJECT NUMBER 4657

| DEPTH (ft.) | SAMPLE NUMBER AND TYPE | BLOWS/6" ON SAMPLER (RECOVERY, %) | POCKET PENETROMETER MEASUREMENT (not) | FIELD MOISTURE CONTENT (%) | LIQUID LIMIT (%) | PLASTIC LIMIT (%) | OTHER TESTS | CORE RECOVERY (%) | ROD (%) | SYMBOLS | | DESCRIPTION | DEPTH (ft.) | ELEVATION (ft., MSL) |
|-------------|------------------------|-----------------------------------|---------------------------------------|----------------------------|------------------|-------------------|-------------|-------------------|---------|---------|----|--|-------------|----------------------|
| | | | | | | | | | | SM-SC | CL | | | |
| 50 | SS12 | 72-100/ 1 (100) | | | | | SA | | | SM-SC | | SAND, silty and clayey, calcareous, white, very dense. (Caliche) | 69.57 | |
| 55 | SS13 | 50-74- 130/5.5 (100) | | | | | | | | SM | | SAND, silty, white. | 66.57 | |
| 60 | SS14 | 100/3.5 (100) | | 18 | 14 | SA | | | | SM-SC | | SAND, silty and clayey, calcareous, white and brown, very dense. (Caliche) | 62.57 | |
| 65 | SS15 | 18-78- 100/4.5 (100) | | | | | | | | CL | | CLAY, silty, brown. | 53.57 | |
| 70 | SS16 | 9-17-21 (100) | | | | | | | | | | END OF BORING - 71.5 Ft | 48.07 | |
| 75 | | | | | | | | | | | | Groundwater encountered at 40.0 Ft. and rose to 32.5 Ft. | | |

| REVISION | DATE | DESCRIPTION |
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| | APPROVED BY | |
| 0 | 10-24-78 R.G. Borlind | For Use |
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COLETO CREEK POWER STATION
LOG OF BORING W-5 (cont'd)

CENTRAL POWER & LIGHT CO.



PROJECT NUMBER 4857

BORING NO. W-6

SHEET 1 OF 2

| DEPTH (ft.) | SAMPLE NUMBER AND TYPE | BLOWS/6" ON SAMPLER (RECOVERY, %) | POCKET PENETROMETER MEASUREMENT (101.) | FIELD MOISTURE CONTENT (%) | LIQUID LIMIT (%) | PLASTIC LIMIT (%) | OTHER TESTS | CORE RECOVERY (%) | ROD (%) | SYMBOLS | | DESCRIPTION | DEPTH (ft.) | ELEVATION (ft., MSL) |
|-------------|------------------------|-----------------------------------|--|----------------------------|------------------|-------------------|-------------|-------------------|---------|---------|----|---|-------------|----------------------|
| | | | | | | | | | | SC | CL | | | |
| 0 | | | | | | | | | | SC | | SAND, clayey, brown. | 0 | 116.35 |
| 5 | ST1 | (64) | | 13.6 | 60 | 29 | SA | | | | | - grades to yellow-brown. - grades to yellow with Caliche. | 5 | 112.35 |
| | ST2 | (86) | | | | | | | | | | | | |
| | ST3 | (81) | | 13.2 | 32 | 21 | SA | | | CL | | CLAY, sandy, yellow-brown. | 10 | 109.85 108.85 |
| | ST4 | (78) | | | | | | | | | | | | |
| | ST5 | (69) | | 3.4 | | | SA | | | SM-SC | | SAND, silty and clayey, yellow and white with Caliche. | 15 | 105.35 |
| 20 | SS6 | 14-20-20 (100) | | | | | | | | | | | | |
| 25 | SS7 | 9-22-28 (100) | | | | | | | | SC | | SAND, clayey, yellow-gray. | 25 | 92.35 |
| | | | | | | | | | | SP-SM | | SAND, coarse to fine, white to yellow. | 30 | 90.35 87.35 |
| | SS8 | 8-16-26 (100) | | | | | | | | SM | | SAND, silty, trace gravel, white with layer of clayey sand. | 35 | |
| | SS9 | 9-41-100/5 (100) | | | | | | | | | | | | |
| 40 | SS10 | 13-55-44 (100) | | | | | | | | | | | | |
| 45 | SS11 | 76-100/5 (100) | | 18 | 12 | | | | | CL-ML | | CLAY, silty and sandy, yellow gray. | 45 | 73.85 |
| 50 | | | | | | | | | | SC | | SAND, clayey, gray, with Caliche. | 50 | 68.85 |

| REVISION | DATE | APPROVED BY | DESCRIPTION |
|----------|----------|---------------|-------------|
| 0 | 11-24-78 | D. G. Beckler | For Use |
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COLETO CREEK POWER STATION
LOG OF BORING W-6

CENTRAL POWER & LIGHT CO.



| DEPTH (ft.) | SAMPLE NUMBER AND TYPE | BLOWS/6" ON SAMPLER (RECOVERY, %) | POCKET PENETROMETER MEASUREMENT (1e1f) | FIELD MOISTURE CONTENT (%) | LIQUID LIMIT (%) | PLASTIC LIMIT (%) | OTHER TESTS | CORE RECOVERY (%) | ROD (%) | SYMBOLS | DESCRIPTION | DEPTH (ft.) | ELEVATION (ft., MBL) |
|-------------|------------------------|-----------------------------------|--|----------------------------|------------------|-------------------|-------------|-------------------|---------|-----------|--|-------------|----------------------|
| | | | | | | | | | | | | | |
| 50 | SS12 | 11-21-57 (100) | | | | | SA | | | SC | | 66.35 | |
| 55 | SS13 | 21-100/ 55 (100) | | | | | | | | | - grades to yellow-gray. | 58.85 | |
| 60 | SS14 | 37-100 (100) | | | | | | | | SH- SC | SAND, silty and clayey, white. | 55.35 | |
| 65 | SS15 | 7-16-26 (100) | | | | | | | | CL | CLAY, silty, gray-pink. | 53.85 | |
| 70 | | | | | | | | | | | END OF BORING- 66.5 Ft Groundwater encountered at 38.0 Ft | 49.85 | |

| REVISION | DATE | DESCRIPTION |
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| | APPROVED BY | |
| 0 | 10-24-74 D. B. Baskin | For Use |
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COLETO CREEK POWER STATION
LOG OF BORING W-6 (cont'd)

CENTRAL POWER & LIGHT CO.

SARGENT & LUNDY
ENGINEERS

BORING NO. W-7

SHEET 1 OF 2

| DEPTH (ft.) | SAMPLE NUMBER AND TYPE | BLOWS/6" ON SAMPLER (RECOVERY, %) | POCKET PENETROMETER MEASUREMENT (lbf.) | FIELD MOISTURE CONTENT (%) | LIQUID LIMIT (%) | PLASTIC LIMIT (%) | OTHER TESTS | CORE RECOVERY (%) | RQD (%) | SYMBOLS | | DESCRIPTION | DEPTH (ft.) | ELEVATION (ft., MSL) |
|-------------|------------------------|-----------------------------------|--|----------------------------|------------------|-------------------|-------------|-------------------|---------|---------|----|---|-------------|----------------------|
| | | | | | | | | | | SC | SM | | | |
| 0 | | | | | | | | | | SC | | SAND, clayey, medium to fine, brown - grades to yellow with layers of Caliche. | 0 | 126.99 |
| 5 | ST1 | (89) | | 10.9 | 45 | 21 | SA | | | | | | 5 | 123.49 |
| 10 | ST2 | (96) | | | | | | | | | | | 10 | 119.99 |
| 15 | ST3 | (78) | | 12.8 | 41 | 20 | SA | | | | | | 15 | 117.49 |
| 20 | ST4 | (86) | | | | | | | | | | | 20 | 110.99 |
| 25 | ST5 | | | 9.1 | | | SA | | | | | | 25 | 108.99 |
| 30 | SS6 | 3-6-26 (100) | | | | | SA | | | | | | 30 | 105.99 |
| 35 | SS7 | 14-51-68 (100) | | | | | | | | | | | 35 | 103.99 |
| 40 | SS8 | 8-37-52 (100) | | | | | | | | | | | 40 | 91.99 |
| 45 | SS9 | 8-13-19 (100) | | | 28 | 15 | SA | | | | | | 45 | 84.49 |
| 50 | SS10 | 7-37-43 (100) | | | | | | | | | | | 50 | |
| | SS11 | 12-26-26 (100) | | | | | SA | | | | | | | |

PROJECT: Colero Creek Power Station
 CLIENT: Central Power & Light Co.
 FEATURE: Monitoring Well W-7
 SURFACE ELEVATION: 126.99 Ft TOTAL DEPTH: 75.13 Ft
 LOCATION: N 79+20 E 19+00
 DEPTH TO WATER DURING DRILLING: 35.0 Ft DATE: 4-4-78
 DRILLED BY: Trinity Testing Laboratories, Inc.
 LOGGED BY: Trinity Testing Laboratories, Inc.
 TESTED BY: Trinity Testing Laboratories, Inc.

| REVISION | DATE | DESCRIPTION |
|----------|-----------------------------------|-------------|
| | APPROVED BY | |
| 0 | 10-24-78 D. G. B... For Use | |
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COLETO CREEK POWER STATION
 LOG OF BORING W-7

CENTRAL POWER & LIGHT CO.

SARGENT & LUNDY
 ENGINEERS

| DEPTH (ft.) | SAMPLE NUMBER AND TYPE | BLOWS/8" ON SAMPLER (RECOVERY, %) | POCKET PENETROMETER MEASUREMENT (1st) | FIELD MOISTURE CONTENT (%) | LIQUID LIMIT (%) | PLASTIC LIMIT (%) | OTHER TESTS | CORE RECOVERY (%) | ROD (%) | SYMBOLS | | DESCRIPTION | DEPTH (ft.) | ELEVATION (ft., MSL) |
|-------------|------------------------|-----------------------------------|---------------------------------------|----------------------------|------------------|-------------------|-------------|-------------------|---------|---------|--|---|-------------|----------------------|
| | | | | | | | | | | | | | | |
| 50 | SS12 | 15-16-50 (100) | | | | | | | | SC | | SAND, clayey. | 76.99 | 76.49 |
| 55 | SS13 | 10-21-29 (100) | | | | | | | | SM | | SAND, silty, coarse to fine, with and without little gravel, white. | 71.49 | |
| 60 | SS14 | 19-42-73 (100) | | | | | SA | | | | | | | |
| 65 | SS15 | 17-100/ ⁵ (0) | | | | | | | | | | - cemented layer. | 61.49 | |
| 70 | SS16 | 100/ 2.5 (0) | | | | | | | | CL | | CLAY, silty, gray, very hard: | 55.99 | |
| 75 | SS17 | 100/1.5 (0) | | | | | | | | | | END OF BORING - 75.13 Ft Groundwater encountered at 35.0 Ft. | 51.86 | |
| 80 | | | | | | | | | | | | | | |

| REVISION | DATE | DESCRIPTION |
|----------|---------------------------|-------------|
| | APPROVED BY | |
| 0 | 10-24-28 D. G. Burling | For Use |
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COLETO CREEK POWER STATION
LOG OF BORING W-7 (cont'd)

CENTRAL POWER & LIGHT CO.

SARGENT & LUNDY
ENGINEERS

PROJECT NUMBER 4857

BORING NO. W-8

SHEET 1 OF 2

| DEPTH (ft.) | SAMPLE NUMBER AND TYPE | BLOWS/6" ON SAMPLER (RECOVERY, %) | POCKET PENETROMETER MEASUREMENT (101) | FIELD MOISTURE CONTENT (%) | LIQUID LIMIT (%) | PLASTIC LIMIT (%) | OTHER TESTS | CORE RECOVERY (%) | RQD (%) | SYMBOLS | | DESCRIPTION | DEPTH (ft.) | ELEVATION (ft., MSL) |
|-------------|------------------------|-----------------------------------|---------------------------------------|----------------------------|------------------|-------------------|-------------|-------------------|---------|---------|----|--|-------------|----------------------|
| | | | | | | | | | | SC | CL | | | |
| 0 | | | | | | | | | | SC | | SAND, clayey, medium to fine, brown. | 0 | 131.78 |
| 5 | ST1 | (92) | | 7.2 | 33 | 15 | SA | | | | | | 5 | |
| 8 | ST2 | (97) | | | | | | | | | | | 8 | |
| 10 | ST3 | (77) | | 16.8 | 48 | 18 | SA | | | CL | | CLAY, silty, and sandy, calcareous, white, (Caliche) | 10 | 124.78 |
| 15 | ST4 | (94) | | | | | | | | | | | 15 | |
| 18 | ST5 | (96) | | 8.4 | | | SA | | | SC | | SAND, clayey, medium to fine, calcareous light brown to white. | 18 | 116.78 |
| 20 | SS6 | 6-9-12 (100) | | | | | | | | SM | | SAND, silty, medium to fine, light brown to gray. | 20 | 111.78 |
| 25 | SS7 | 11-28-42 (100) | | | | | | | | | | | 25 | |
| 30 | SS8 | 100/6.5 (100) | | | | | SA | | | | | | 30 | |
| 35 | SS9 | 30-25-86 (100) | | | | | | | | CL | | CLAY, silty, brown. | 35 | 95.78 |
| 40 | SS10 | 6-14-22 (100) | | | | | SA | | | SC | | SAND, clayey, coarse to fine, gray. | 40 | 91.78 |
| 45 | SS11 | -23-26 (100) | | | | | SA | | | SH | | SAND, silty, gray, with clayey sand layers. | 45 | 87.78 |
| 50 | | | | | | | | | | | | | 50 | |

| REVISION | DATE | DESCRIPTION |
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| | APPROVED BY | |
| 0 | 10-24-20 D.G. Berlin | For Use |
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**COLETO CREEK POWER STATION
LOG OF BORING W-8**

CENTRAL POWER & LIGHT CO.



PROJECT NUMBER 4857

| DEPTH (ft.) | SAMPLE NUMBER AND TYPE | BLOWS/6" ON SAMPLER (RECOVERY, %) | POCKET PENETROMETER MEASUREMENT (1st) | FIELD MOISTURE CONTENT (%) | LIQUID LIMIT (%) | PLASTIC LIMIT (%) | OTHER TESTS | CORE RECOVERY (%) | RQD (%) | SYMBOLS | | DESCRIPTION | DEPTH (ft.) | ELEVATION (ft., MBL.) |
|-------------|------------------------|-----------------------------------|---------------------------------------|----------------------------|------------------|-------------------|-------------|-------------------|---------|---------|--|---|-------------|-----------------------|
| | | | | | | | | | | | | | | |
| 50 | SS12 | 43-100/1 (100) | | | | | | | | SM | | | 81.78 | |
| 55 | SS13 | 30-47-96 (100) | | | | | | | | SC | | SAND, clayey, gray, vary hard. | 74.78 | |
| 60 | SS14 | 100/3 (100) | | | | | SA | | | | | | | |
| 65 | SS15 | 100/1 (100) | | | | | | | | CL | | CLAY, silt, light brown to white with Caliche, very hard. | 64.78 | |
| 70 | SS16 | 28-47-52 (100) | | 45 | 20 | | SA | | | | | | | |
| 75 | SS17 | 17-54-41 (100) | | | | | | | | | | | | |
| 80 | SS18 | 14-36-50 (100) | | | | | | | | | | | | |
| 85 | | | | | | | | | | | | END OF BORING - 81.5 Ft Groundwater encountered at 42.0 Ft | 50.28 | |

| REVISION | DATE | DESCRIPTION |
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| | APPROVED BY | |
| 0 | 10-24-78 D.G. Beding | For Use |
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COLETO CREEK POWER STATION
LOG OF BORING W-8 (cont'd)

CENTRAL POWER & LIGHT CO.

SARGENT & LUNDY
ENGINEERS

PROJECT NUMBER 4857

BORING NO. TB-1

SHEET 1 OF 1

| DEPTH (ft.) | SAMPLE NUMBER AND TYPE | BLOWS/6" ON SAMPLER (RECOVERY, %) | POCKET PENETROMETER MEASUREMENT (1st.) | FIELD MOISTURE CONTENT (%) | LIQUID LIMIT (%) | PLASTIC LIMIT (%) | OTHER TESTS | CORE RECOVERY (%) | ROD (%) | SYMBOLS | | DESCRIPTION | DEPTH (ft.) | ELEVATION (ft., MSL) |
|-------------|------------------------|-----------------------------------|--|----------------------------|------------------|-------------------|-------------|-------------------|---------|---------|--|--|-------------|----------------------|
| | | | | | | | | | | SC | | | | |
| 0 | ST 1 (76) | | | 10.1 | 34 | 19 | SA, P | | | SC | | SAND, clayey, medium to fine, brown with seems of gray fine sand. - grades to gray with no seems. | 0 | 130.88 |
| 2 | ST 2 (75) | | | | 34 | 17 | SA | | | | | | 2 | 127.88 |
| 5 | ST 3 (91) | | | 13.4 | 40 | 20 | SA, P | | | | | | 5 | |
| 8 | ST 4 (81) | | | | | | | | | | | | 8 | |
| 10 | ST 5 (88) | | | | 41 | 14 | SA | | | | | - grades to light gray. | 10 | |
| 17 | ST 6 (97) | | | | | | | | | | | END OF BORING - 16.5 Feet. Groundwater not encountered. | 17 | 117.38 |
| 16.5 | | | | | | | | | | | | | 16.5 | 113.88 |

| REVISION | DATE | DESCRIPTION |
|----------|------------------------|-------------|
| 0 | 12-24-78 D.C. Lundy | For Use |
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COLETO CREEK POWER STATION
LOG OF BORING TB-1

CENTRAL POWER & LIGHT CO.



PROJECT NUMBER 4857

BORING NO. TB-2

SHEET 1 OF 1

| DEPTH (ft.) | SAMPLE NUMBER AND TYPE | BLOWS/6" ON SAMPLER (RECOVERY, %) | POCKET PENETROMETER MEASUREMENT (lbf.) | FIELD MOISTURE CONTENT (%) | LIQUID LIMIT (%) | PLASTIC LIMIT (%) | OTHER TESTS | CORE RECOVERY (%) | ROD (%) | SYMBOLS | | DEPTH (ft.) | ELEVATION (ft., MSL) |
|-------------|------------------------|-----------------------------------|--|----------------------------|------------------|-------------------|-------------|-------------------|---------|---------|--|-------------|----------------------|
| | | | | | | | | | | CH | DESCRIPTION | | |
| 0 | ST 1 | (72) | | | 74 | 23 | SA, P | | | CH | CLAY, sandy, brown | 0 | 117.64 |
| 4 | ST 2 | (67) | | 9.8 | 36 | 18 | SA | | | SC | SAND, clayey, medium to fine, brown. - grade to coarse to fine. | 4 | 116.10 |
| 8 | ST 3 | (89) | | | 37 | 20 | SA | | | | | 8 | 112.60 |
| 10 | ST 4 | (33) | | | | | | | | SP-SM | SAND, coarse to fine, trace silt, brown. | 10 | 110.10 |
| 11.5 | ST 5 | (42) | | | | | | | | | END OF BORING - 11.5 Ft Groundwater not encountered. | 11.5 | 106.10 |

| REVISION | DATE | DESCRIPTION |
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| | APPROVED BY | |
| 0 | 11-24-78 D. G. B. [Signature] | For Use |
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**COLETO CREEK POWER STATION
LOG OF BORING TB-2**

CENTRAL POWER & LIGHT CO.

SARGENT & LUNDY
ENGINEERS

PROJECT NUMBER 4857

BORING NO. TB-3

SHEET 1 OF 1

| DEPTH (ft.) | SAMPLE NUMBER AND TYPE | BLOWS/6" ON SAMPLER (RECOVERY, %) | POCKET PENETROMETER MEASUREMENT (ret.) | FIELD MOISTURE CONTENT (%) | LIQUID LIMIT (%) | PLASTIC LIMIT (%) | OTHER TESTS | CORE RECOVERY (%) | ROD (%) | SYMBOLS | DESCRIPTION | DEPTH (ft.) | ELEVATION (ft., MSL) |
|-------------|------------------------|-----------------------------------|--|----------------------------|------------------|-------------------|-------------|-------------------|---------|---------|---|-------------|----------------------|
| 0 | ST 1 | (83) | | | 45 | 17 | SA | | | ML | SILT, sandy, brown. | 0 | 122.80 |
| | ST 2 | (89) | | 11.2 | 40 | 19 | SA | | | SC | SAND, clayey, medium to fine, gray and brown. | | 122.30 |
| 5 | ST 3 | (88) | | 10.9 | 40 | 19 | SA,P | | | | | 5 | |
| | ST 4 | (88) | | | 41 | 16 | SA | | | | | | |
| 10 | ST 5 | (97) | | | | | | | | | - grade to coarse to fine, white and brown. | 10 | 112.80 |
| 16 | ST 6 | (97) | | | | | | | | | END OF BORING - 16.5 Ft Groundwater not encountered. | 15 | 106.3 |
| 20 | | | | | | | | | | | | 20 | |
| 25 | | | | | | | | | | | | 25 | |
| 30 | | | | | | | | | | | | 30 | |
| 36 | | | | | | | | | | | | 35 | |
| 40 | | | | | | | | | | | | 40 | |
| 48 | | | | | | | | | | | | 45 | |
| 60 | | | | | | | | | | | | 50 | |

| REVISION | DATE | DESCRIPTION |
|----------|----------------------------|-------------|
| 0 | 11-21-73 D. L. B. - 200 | For Use |
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**COLETO CREEK POWER STATION
LOG OF BORING TB-3**

CENTRAL POWER & LIGHT CO.

SARGENT & LUNDY
ENGINEERS

PROJECT NUMBER 4857

BORING NO. TB-4

SHEET 1 OF 1

| DEPTH (ft.) | SAMPLE NUMBER AND TYPE | BLOWS/6" ON SAMPLER (RECOVERY, %) | POCKET PENETROMETER MEASUREMENT (1st/1) | FIELD MOISTURE CONTENT (%) | LIQUID LIMIT (%) | PLASTIC LIMIT (%) | OTHER TESTS | CORE RECOVERY (%) | ROD (%) | SYMBOLS | | DESCRIPTION | DEPTH (ft.) | ELEVATION (ft., MSL) |
|-------------|------------------------|-----------------------------------|---|----------------------------|------------------|-------------------|-------------|-------------------|---------|---------|----|--|-------------|----------------------|
| | | | | | | | | | | SP | SC | | | |
| 0 | ST 1 | (72) | | | | | | | | SP | SC | SAND, coarse to fine, light brown. SAND, clayey, medium to fine, brown. | 0 | 121.34 120.84 |
| 5 | ST 2 | (75) | | 13.240 | | 18 | SA, P | | | | | | 5 | |
| 8 | ST 3 | (91) | | | | | SA | | | | | | 8 | |
| 10 | ST 4 | (83) | | 11.237 | | 18 | SA | | | | | - grades to calcareous, coarse to fine, white. (Caliche). | 10 | 113.84 |
| 15 | ST 5 | (78) | | | | | | | | | | - grades to brown with pockets of caliche. | 15 | 108.84 |
| 18 | ST 6 | (44) | | | | | | | | SP | | SAND, coarse to fine, trace gravel, white. | 18 | 107.34 |
| 18.5 | | | | | | | | | | | | END OF BORING - 16.5 Ft Groundwater not encountered. | 18.5 | 104.84 |
| 20 | | | | | | | | | | | | | 20 | |
| 25 | | | | | | | | | | | | | 25 | |
| 30 | | | | | | | | | | | | | 30 | |
| 35 | | | | | | | | | | | | | 35 | |
| 40 | | | | | | | | | | | | | 40 | |
| 45 | | | | | | | | | | | | | 45 | |
| 50 | | | | | | | | | | | | | 50 | |

| REVISION | DATE | DESCRIPTION |
|----------|---------------------------------|-------------|
| 0 | 10-24-78 D.E. S. [Signature] | For Use |
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**COLE TO CREEK POWER STATION
LOG OF BORING TB-4**

CENTRAL POWER & LIGHT CO.

SARGENT & LUNDY
ENGINEERS

PROJECT NUMBER 4857

BORING NO. TB-5

SHEET 1 OF 1

| DEPTH (ft.) | SAMPLE NUMBER AND TYPE | BLOWS/6" ON SAMPLER (RECOVERY, %) | POCKET PENETROMETER MEASUREMENT (1st) | FIELD MOISTURE CONTENT (%) | LIQUID LIMIT (%) | PLASTIC LIMIT (%) | OTHER TESTS | CORE RECOVERY (%) | ROD (%) | SYMBOLS | | DESCRIPTION | DEPTH (ft.) | ELEVATION (ft., MSL) |
|-------------|------------------------|-----------------------------------|---------------------------------------|----------------------------|------------------|-------------------|-------------|-------------------|---------|---------|----|---|-------------|----------------------|
| | | | | | | | | | | SC | SP | | | |
| 0 | ST 1 | (89) | | | 30 | 14 | SA | | | SC | | SAND, clayey, coarse to fine, brown and gray. | 0 | 125.03 |
| | ST 2 | (100) | | | 29 | 14 | SA | | | | | | | |
| 5 | ST 3 | (89) | | | | | | | | | | - grades to gray and white. | 5 | 119.03 |
| | ST 4 | (97) | | 15.7 | 44 | 18 | SA,P | | | | | | | |
| 10 | ST 5 | (100) | | | | | | | | SP | | SAND, medium to fine, white. END OF BORING - 11.5 Ft Groundwater not encountered. | 10 | 114.53 |
| | | | | | | | | | | | | | | 113.53 |
| 15 | | | | | | | | | | | | | 15 | |
| 20 | | | | | | | | | | | | | 20 | |
| 25 | | | | | | | | | | | | | 25 | |
| 30 | | | | | | | | | | | | | 30 | |
| 35 | | | | | | | | | | | | | 35 | |
| 40 | | | | | | | | | | | | | 40 | |
| 45 | | | | | | | | | | | | | 45 | |
| 50 | | | | | | | | | | | | | 50 | |

| REVISION | DATE | DESCRIPTION |
|----------|----------------------------|-------------|
| | APPROVED BY | |
| 0 | 10-24-78 D. C. Brouhard | For Use |
| | | |
| | | |
| | | |

**COLETO CREEK POWER STATION
LOG OF BORING TB-5**

CENTRAL POWER & LIGHT CO.



BORING NO. TB-6

SHEET 1 OF 1

| DEPTH (ft.) | SAMPLE NUMBER AND TYPE | BLOWS/6" ON SAMPLER (RECOVERY, %) | POCKET PENETROMETER MEASUREMENT (1st.) | FIELD MOISTURE CONTENT (%) | LIQUID LIMIT (%) | PLASTIC LIMIT (%) | OTHER TESTS | CORE RECOVERY (%) | ROD (%) | METADATA | |
|-------------|------------------------|-----------------------------------|--|----------------------------|------------------|-------------------|-------------|-------------------|---------|--|---|
| | | | | | | | | | | DEPTH (ft.) | ELEVATION (ft., MSL) |
| 0 | | | | | | | | | | PROJECT: Coleto Creek Power Station | CLIENT: Central Power & Light Co. |
| | | | | | | | | | | FEATURE: Evaporation Pond In-situ Lining | SURFACE ELEVATION: 124.21 Ft |
| | | | | | | | | | | LOCATION: N 61 + 00 E 1 + 00 | TOTAL DEPTH: 11.5 Ft |
| | | | | | | | | | | DEPTH TO WATER DURING DRILLING: Dry | DATE: 3-21-78 |
| | | | | | | | | | | DRILLED BY: Trinity Testing Laboratories, Inc. | |
| | | | | | | | | | | LOGGED BY: Sargent & Lundy | |
| | | | | | | | | | | TESTED BY: Trinity Testing Laboratories, Inc. | |
| | | | | | | | | | | SYMBOLS | DESCRIPTION |
| 0 | ST 1 | (89) | | | 49 | 21 | SA | | | SC | SAND, clayey, coarse to fine, trace gravel, light brown to white. |
| 2.71 | ST 2 | (50) | | | | | | | | CL | CLAY, sandy, calcareous, white. (Calache) |
| 5 | ST 3 | (100) | | 15.8 | 36 | 17 | SA | | | | - grades to some coarse to fine sand. |
| 10 | ST 4 | (100) | | | | | | | | | |
| 11.5 | SS5 | 33-44-39 (100) | | | | | | | | | END OF BORING - 11.5 Ft Groundwater not encountered. |

| REVISION | DATE | DESCRIPTION |
|----------|---------------------|-------------|
| | APPROVED BY | |
| | 11-24-78 | |
| | D.G. H. [Signature] | |
| | | |
| | | |
| | | |
| | | |

COLETO CREEK POWER STATION
LOG OF BORING TB-6

CENTRAL POWER & LIGHT CO.

SARGENT & LUNDY
 ENGINEERS

PROJECT NUMBER 4857

BORING NO. TB-7

SHEET 1 OF 1

| DEPTH (ft.) | SAMPLE NUMBER AND TYPE | BLOWS/6" ON SAMPLER (RECOVERY, %) | POCKET PENETROMETER MEASUREMENT (1st.) | FIELD MOISTURE CONTENT (%) | LIQUID LIMIT (%) | PLASTIC LIMIT (%) | OTHER TESTS | CORE RECOVERY (%) | ROD (%) | METADATA | | DEPTH (ft.) | ELEVATION (ft., MSL) |
|-------------|------------------------|-----------------------------------|--|----------------------------|------------------|-------------------|-------------|-------------------|---------|-------------------------------------|--|-------------|----------------------|
| | | | | | | | | | | PROJECT: Coieto Creek Power Station | CLIENT: Central Power & Light Co. | | |
| 0 | ST 1 | (83) | | | 45 | 18 | SA | | | SYMBOLS | DESCRIPTION | 0 | 124.14 |
| | ST 2 | (88) | | 12.9 | 41 | 10 | SA,P | | | SC | SAND, clayey, coarse to fine, light brown. | | 122.64 |
| 5 | ST 3 | (94) | | | | | | | | CL | CLAY, silty, and medium to fine sand, light brown. | 5 | 118.14 |
| | ST 4 | | | | | | | | | SC | SAND, clayey, coarse to fine, light brown to light gray. - grades to white. - grades to trace of gravel. | | |
| 10 | ST 5 | (94) | | | | | SA | | | | END OF BORING - 11.5 Ft Groundwater not encountered. | 10 | 112.64 |
| 15 | | | | | | | | | | | | 15 | |
| 20 | | | | | | | | | | | | 20 | |
| 25 | | | | | | | | | | | | 25 | |
| 30 | | | | | | | | | | | | 30 | |
| 35 | | | | | | | | | | | | 35 | |
| 40 | | | | | | | | | | | | 40 | |
| 45 | | | | | | | | | | | | 45 | |
| 50 | | | | | | | | | | | | 50 | |

| REVISION | DATE | APPROVED BY | DESCRIPTION |
|----------|----------|------------------|-------------|
| 0 | 10-24-88 | D.C. [Signature] | For Use |
| | | | |
| | | | |
| | | | |

**COLETO CREEK POWER STATION
LOG OF BORING TB-7**

CENTRAL POWER & LIGHT CO.



PROJECT NUMBER 4857

BORING NO. TB-8

SHEET 1 OF 1

| DEPTH (ft.) | SAMPLE NUMBER AND TYPE | BLOWS/6" ON SAMPLER (RECOVERY, %) | POCKET PENETROMETER MEASUREMENT (psf) | FIELD MOISTURE CONTENT (%) | LIQUID LIMIT (%) | PLASTIC LIMIT (%) | OTHER TESTS | CORE RECOVERY (%) | ROD (%) | SYMBOLS | | DESCRIPTION | DEPTH (ft.) | ELEVATION (ft., MSL) |
|-------------|------------------------|-----------------------------------|---------------------------------------|----------------------------|------------------|-------------------|-------------|-------------------|---------|---------|----|--|-------------|----------------------|
| | | | | | | | | | | CL | SC | | | |
| 0 | ST 1 | (89) | | | | NP | SA | | | CL | CL | CLAY, sandy, trace gravel, brown. | 0 | 124.13 |
| | | | | | | | | | | SW | SW | SAND, silty, trace gravel, brown. | | 123.13 |
| | ST 2 | (92) | | | | | | | | CL | CL | CLAY, sandy, calcareous, trace gravel, brown to white. (Caliche) | | 122.63 |
| 5 | ST 3 | (69) | | | 30 | 15 | SA | | | | | | 5 | |
| | ST 4 | (100) | | | | | | | | SC | SC | SAND, clayey, calcareous, white. (Caliche). | | 116.63 |
| 10 | ST 5 | (89) | | | | | | | | | | | 10 | |
| | | | | | | | | | | | | END OF BORING - 11.5 Ft Groundwater not encountered | | 112.63 |
| 15 | | | | | | | | | | | | | 15 | |
| 20 | | | | | | | | | | | | | 20 | |
| 25 | | | | | | | | | | | | | 25 | |
| 30 | | | | | | | | | | | | | 30 | |
| 35 | | | | | | | | | | | | | 35 | |
| 40 | | | | | | | | | | | | | 40 | |
| 45 | | | | | | | | | | | | | 45 | |
| 50 | | | | | | | | | | | | | 50 | |

| REVISION | DATE | DESCRIPTION |
|----------|------------------------------|-------------|
| | APPROVED BY | |
| 0 | 11-24-78 D.G. [Signature] | For Use |
| | | |
| | | |
| | | |

COLETO CREEK POWER STATION
LOG OF BORING TB-8

CENTRAL POWER & LIGHT CO.

SARGENT & LUNDY
 ENGINEERS

PROJECT NUMBER 4857

BORING NO. TB-9

SHEET 1 OF 1

| DEPTH (ft.) | SAMPLE NUMBER AND TYPE | BLOWS/6" ON SAMPLER (RECOVERY, %) | POCKET PENETROMETER MEASUREMENT (in.) | FIELD MOISTURE CONTENT (%) | LIQUID LIMIT (%) | PLASTIC LIMIT (%) | OTHER TESTS | CORE RECOVERY (%) | ROD (%) | SYMBOLS | DESCRIPTION | DEPTH (ft.) | ELEVATION (ft., MSL) |
|-------------|------------------------|-----------------------------------|---------------------------------------|----------------------------|------------------|-------------------|-------------|-------------------|---------|---------|--|-------------|----------------------|
| | | | | | | | | | | | | | |
| 0 | ST 1 | (92) | | 46 | 21 | SA, P | | | | SC | SAND, clayey, coarse to fine, brown. | 0 | 124.23 |
| | ST 2 | (69) | | 46 | 13 | SA | | | | | - grades to medium to fine brown and gray. | | |
| 5 | ST 3 | (88) | | | | | | | | SM | SAND, silty, trace gravel and clay, gray. | 5 | 118.23 |
| | ST 4 | (80) | | | | | | | | | - grades to trace organic material and roots, gray to black. | | 115.73 |
| 10 | ST 5 | (92) | | | | | | | | SC | SAND, clayey, calcareous, trace gravel, white. | 10 | 112.73 |
| | | | | | | | | | | | END OF BORING- 11.5 Ft Groundwater not encountered | | |
| 16 | | | | | | | | | | | | 16 | |
| 20 | | | | | | | | | | | | 20 | |
| 25 | | | | | | | | | | | | 25 | |
| 30 | | | | | | | | | | | | 30 | |
| 35 | | | | | | | | | | | | 35 | |
| 40 | | | | | | | | | | | | 40 | |
| 45 | | | | | | | | | | | | 45 | |
| 50 | | | | | | | | | | | | 50 | |

| REVISION | DATE | DESCRIPTION |
|----------|------------------------|-------------|
| | APPROVED BY | |
| 0 | 11-21-78 D.G. Brown | For Use |
| | | |
| | | |
| | | |

COLETO CREEK POWER STATION
LOG OF BORING TB-9

CENTRAL POWER & LIGHT CO.

SARGENT & LUNDY
 ENGINEERS

PROJECT NUMBER 4857

BORING NO. TB-10

SHEET 1 OF 1

| | | | | | | | | | | | | | |
|-------------|------------------------|-----------------------------------|---------------------------------------|----------------------------|------------------|-------------------|-------------|-------------------|---------|---------|--|-------------|----------------------|
| DEPTH (ft.) | SAMPLE NUMBER AND TYPE | BLOWS/6" ON SAMPLER (RECOVERY, %) | POCKET PENETROMETER MEASUREMENT (if.) | FIELD MOISTURE CONTENT (%) | LIQUID LIMIT (%) | PLASTIC LIMIT (%) | OTHER TESTS | CORE RECOVERY (%) | ROD (%) | SYMBOLS | DESCRIPTION | DEPTH (ft.) | ELEVATION (ft., MSL) |
| 0 | | | | | | | | | | GW | GRAVEL, sandy, (stockpile) | 0 | 118.43 |
| 5 | ST 1 | (94) | | | | | | | | SC | SAND, clayey, medium to fine, light brown. | 5 | |
| | ST 2 | (94) | | 12.1 | 46 | 19 | SA, P | | | | | | |
| | ST 3 | (94) | | | 59 | 18 | SA. | | | | | | |
| 10 | ST 4 | (97) | | | | | | | | | | 10 | 108.43 |
| | | | | | | | | | | | | | 106.93 |

- grades to light gray.
 END OF BORING - 11.5 Ft
 Groundwater not encountered.

| REVISION | DATE | DESCRIPTION |
|----------|------------------------|-------------|
| | APPROVED BY | |
| 0 | 11-24-78 D.C. Brown | For Use |
| | | |
| | | |
| | | |

COLETO CREEK POWER STATION
LOG OF BORING TB-10

CENTRAL POWER & LIGHT CO.

SARGENT & LUNDY
ENGINEERS

BORING NO. TB-II

SHEET 1 OF 1

| DEPTH (ft.) | SAMPLE NUMBER AND TYPE | BLOWS/6" ON SAMPLER (RECOVERY, %) | POCKET PENETROMETER MEASUREMENT (w/1.) | FIELD MOISTURE CONTENT (%) | LIQUID LIMIT (%) | PLASTIC LIMIT (%) | OTHER TESTS | CORE RECOVERY (%) | ROD (%) | SYMBOLS: DESCRIPTION | | DEPTH (ft.) | ELEVATION (ft., MSL) |
|-------------|------------------------|-----------------------------------|--|----------------------------|------------------|-------------------|-------------|-------------------|---------|----------------------|---|-------------|----------------------|
| | | | | | | | | | | SC | DESCRIPTION | | |
| 0 | | | | | | | | | | SC | SAND, clayey, medium to fine, light brown and gray. (fill) - grades to trace finegravel. | 0 | 117.6 |
| 5 | ST 1 | (75) | | 12.0 | 35 | 17 | SA | | | | | 5 | 115.10 |
| 10 | ST 2 | (88) | | | | | | | | | | 10 | |
| 15 | ST 3 | (92) | | 42 | | 16 | SA | | | | | 15 | |
| 20 | ST 4 | (89) | | | | | SA | | | | | 20 | |
| 25 | | | | | | | | | | | | 25 | |
| 30 | | | | | | | | | | | | 30 | |
| 35 | | | | | | | | | | | | 35 | |
| 40 | | | | | | | | | | | | 40 | |
| 45 | | | | | | | | | | | | 45 | |
| 50 | | | | | | | | | | | | 50 | |

END OF BORING - 11.5 Ft
Groundwater not encountered.

| REVISION | DATE | DESCRIPTION |
|----------|------------------------|-------------|
| 0 | 11-24-78 D.G. Brown | For Use |
| | | |
| | | |
| | | |
| | | |

COLETO CREEK POWER STATION
LOG OF BORING TB-II

CENTRAL POWER & LIGHT CO.



BORING NO. TB-12

SHEET 1 OF 1

| DEPTH (ft.) | SAMPLE NUMBER AND TYPE | BLOWS/6" ON SAMPLER (RECOVERY, %) | POCKET PENETROMETER MEASUREMENT (lbf.) | FIELD MOISTURE CONTENT (%) | LIQUID LIMIT (%) | PLASTIC LIMIT (%) | OTHER TESTS | CORE RECOVERY (%) | ROD (%) | PROJECT INFORMATION | | DEPTH (ft.) | ELEVATION (ft., MSL) |
|-------------|------------------------|-----------------------------------|--|----------------------------|------------------|-------------------|-------------|-------------------|---------|--|--|-------------|----------------------|
| | | | | | | | | | | PROJECT: | DESCRIPTION: | | |
| | | | | | | | | | | PROJECT: Coleto Creek Power Station | DESCRIPTION: Cool Pile Area | | |
| | | | | | | | | | | CLIENT: Central Power & Light Co. | | | |
| | | | | | | | | | | FEATURE: Cool Pile Area | | | |
| | | | | | | | | | | SURFACE ELEVATION: 124.07 Ft | TOTAL DEPTH: 16.5 Ft | | |
| | | | | | | | | | | LOCATION: N 19 + 00 W 9 00 | | | |
| | | | | | | | | | | DEPTH TO WATER DURING DRILLING: | DATE: 3-24-78 | | |
| | | | | | | | | | | DRILLED BY: Trinity Testing Laboratories, Inc. | | | |
| | | | | | | | | | | LOGGED BY: Sargent & Lundy | | | |
| | | | | | | | | | | TESTED BY: Trinity Testing Laboratories, Inc. | | | |
| | | | | | | | | | | SYMBOLS | | DESCRIPTION | |
| 0 | ST 1 | (100) | | | | | SA | | | SC | SAND, clayey, some gravel, redish brown. - grades to trace gravel, white. | 0 | 124.07 |
| | ST 2 | (0) | | | | | | | | | - grades to no gravel, brown. | 5 | 123.07 |
| 5 | ST 3 | (75) | | | 30 | 12 | SA | | | | | 5 | 119.07 |
| | ST 4 | (97) | | | 36 | 19 | SA, P | | | | | 10 | |
| 10 | ST 5 | (94) | | | | | | | | | | 10 | |
| | | | | | | | | | | | END OF BORING - 16.5 Ft Groundwater not encountered. | 18 | |
| 18 | ST 6 | (86) | | | | | | | | | | 18 | 107.5 |
| 20 | | | | | | | | | | | | 20 | |
| 25 | | | | | | | | | | | | 25 | |
| 30 | | | | | | | | | | | | 30 | |
| 35 | | | | | | | | | | | | 35 | |
| 40 | | | | | | | | | | | | 40 | |
| 45 | | | | | | | | | | | | 45 | |
| 50 | | | | | | | | | | | | 50 | |

| REVISION | DATE | DESCRIPTION |
|----------|-------------------------|-------------|
| | APPROVED BY | |
| 0 | 10-26-78 D.E. Fisher | For Use |
| | | |
| | | |
| | | |
| | | |




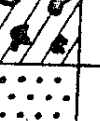
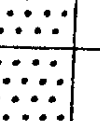
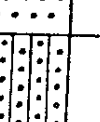






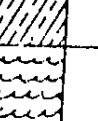
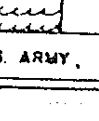

COLETO CREEK POWER STATION
LOG OF BORING TB-12

CENTRAL POWER & LIGHT CO.

SARGENT & LUNDY
ENGINEERS

PROJECT NUMBER 4857

KEY TO CLASSIFICATION USED ON LOGS

| MAJOR DIVISIONS | | GROUP SYMBOLS | DESCRIPTIONS | | |
|--|---|---|---|---|---|
| COARSE-GRAINED SOILS More Than Half of Material is LARGER Than No. 200 Sieve Size. | GRAVELS More Than Half of Coarse Fraction is LARGER Than No. 4 Sieve Size. | GW |  | Well-Graded Gravels, Gravel-Sand Mixtures, Little or no Fines. | |
| | | GP |  | Poorly-Graded Gravels, Gravel-Sand Mixtures, Little or no Fines. | |
| | | GM |  | Silty Gravels, Gravel-Sand-Silt Mixtures. | |
| | | GC |  | Clayey Gravels, Gravel-Sand-Clay Mixtures. | |
| | SANDS More Than Half of Coarse Fraction is SMALLER Than No. 4 Sieve Size. | SW |  | Well-Graded Sands, Gravelly Sands, Little or no Fines. | |
| | | SP |  | Poorly-Graded Sands, Gravelly Sands, Little or no Fines. | |
| | | SM |  | Silty Sands, Sand-Silt Mixtures. | |
| | | SC |  | Clayey Sands, Sand-Clay Mixtures. | |
| | FINE-GRAINED SOILS More Than Half of Material is SMALLER Than No. 200 Sieve Size. | SILTS and CLAYS Liquid Limit Less Than 50 Liquid Limit Greater Than 50 | ML |  | Inorganic Silts & Very Fine Sands, Rock Flour, Silty or Clayey Fine Sands or Clayey Silts with Slight Plasticity. |
| | | | CL |  | Inorganic Clays of Low to Medium Plasticity, Gravelly Clays, Sandy Clays, Silty Clays, Lean Clays. |
| OL | | |  | Organic Silts & Organic Silty Clays of Low Plasticity. | |
| MH | | |  | Inorganic Silts, Micaceous or Diatomaceous Fine Sand or Silty Soils, Elastic Silts. | |
| CH | | |  | Inorganic Clays of High Plasticity, Fat Clays. | |
| OH | | |  | Organic Clays of Medium to High Plasticity, Organic Silts. | |
| Highly Organic Soils | | Pt |  | Peat & Other Highly Organic Soils | |

Ref. (Unified Soil Classification System) Corps of Engineers, U.S. ARMY, T.M. NO. 3-357

| LOG OF BORING FOR Coletto Creek Power Station | | | | Sheet 1 of 2 | | | | |
|---|--------|--------|---|--|-----------------|--------------------|-----------|-------------|
| DATE: April 13, 1976 | | | | BORING NO. CH-1 | | | | |
| PROJECT LOCATION: Fannin, Texas | | | | TYPE: Core | | LOCATION: See Plat | | |
| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT Sample Number | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
| | | | | Ground surface elevation = 114.6 | | | | |
| | | | | Brown silty sand (SM) | | | 113.1 | |
| 5 | | | 28 J-1 | Light gray and tan clayey sand (SC) | | | | |
| 10 | | | 34 J-2 | | | | 102.6 | |
| 15 | | | 73 J-3 | Light gray and tan clayey sand w/scattered gravel (SC) | | | 97.1 | |
| | | | | | | | 96.6 | |
| 20 | | | 66 J-4 | Tan sand and gravel (SP) | | | | |
| | | | | Light gray and tan clayey sand w/scattered gravel (SC) | | | 90.6 | |
| 25 | | | 19 J-5 | | | | | |
| | | | | Tan and yellowish tan silty sand (SM) | | | | |
| 30 | | | 19 J-6 | | | | | |
| 35 | | | 22 J-7 | | | | 77.6 | |
| 40 | | | 69 J-8 | Tan sand, coarse grained w/scattered gravel (SP) | | | 74.6 | |
| | | | | Continued on next page | | | | |

**LOG OF BORING
FOR
Coletto Creek Power Station**

Sheet 2 of 2

DATE: April 13, 1976

PROJECT LOCATION: Fannin, Texas

TYPE: Core

BORING NO. CH-1, Cont'd
LOCATION: See Plat

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample Number | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|--|--------|--------|------------------|---------------|---|--------------|----------------|-----------|-------------|
| | | | | | tan sand, coarse grained w/scattered gravel (SP) | | | 72.6 | |
| 45 | | 100 | | J-9 | 55/6", 45/1" Light gray and tan clayey sand w/caliche particles (SC) | | | | |
| 50 | | 74 | | J-10 | | | | | |
| 55 | | 100 | | J-11 | 60/6", 40/2-1/2" | | | | |
| 60 | | 100 | | J-12 | 50/6", 50/6" | | | 54.6 | |
| | | | | | Total depth of boring - 60.0 feet | | | | |
| <p><u>NOTES:</u></p> <p>Project No. 4857</p> <p>Boring Started: 4/12/76 - 1:00 p.m.</p> <p>Boring Completed: 4/12/76 - 4:30 p.m.</p> <p>Driller: Joe Castleberry</p> <p align="center"><u>WATER OBSERVATIONS</u></p> <p>Drilling fluid was used from the ground surface down and did not disperse.</p> | | | | | | | | | |

LOG OF BORING
FOR

Sheet 1 of 2

Coletto Creek Power Station

DATE: April 13, 1976

PROJECT LOCATION: Fannin, Texas

TYPE: Core

BORING NO. CH-2

LOCATION: See Plat

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample Number | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|---------------|---|--------------|----------------|-----------|-------------|
| | | | | | Ground surface elevation 115.7 | | | | |
| | | | | | Brown silty sand (SM) | | | 114.2 | |
| 5 | | | 24 | J-1 | Light gray clayey sand w/white calcium nodules (SC) | | | 103.7 | |
| 10 | | | 28 | J-2 | | | | | |
| 15 | | | 58 | J-3 | Light gray and tan clayey sand w/calcareous nodules and yellowish tan sand (SC) | | | 94.7 | |
| 20 | | | 48 | J-4 | | | | | |
| 25 | | | 22 | J-5 | Light gray clay (CH) | | | 93.7 | |
| 30 | | | 11 | J-6 | Light gray and tan silty sand w/scattered caliche particles (SM) | | | 82.2 | |
| 35 | | | 22 | J-7 | | | | | |
| | | | | | Yellow and gray clay (CH) | | | 81.7 | |
| 40 | | | 30 | J-8 | Tan sand w/scattered gravel and yellowish tan clayey sand lenses (SP) | | | 75.7 | |
| | | | | | | | | | |
| | | | | | Continued on next page | | | | |

LOG OF BORING
FOR

Sheet 2 of 2

Coletto Creek Power Station

DATE: April 13, 1976

BORING NO. CH-2, Cont'd

PROJECT LOCATION: Fannin, Texas

TYPE: Core

LOCATION: See Plat

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample Number | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|--|--------|--------|------------------|---------------|---|--------------|----------------|-----------|-------------|
| | | | | | Tan sand w/scattered gravel and yellowish tan clayey sand lenses (SP) | | | 72.7 | |
| 45 | | ⊗ | 100 | J-9 | 100/6" Tan sand w/gravel and yellowish tan clay lenses (SP) | | | | |
| 50 | | ⊗ | 100 | J-10 | 30/6", 70/6" | | | 65.7 | |
| <p>Total depth of boring = 50.0 feet</p> <p><u>NOTES:</u></p> <p>Project No. 4857</p> <p>Boring Started: 4/13/76 - 2:00 p.m.</p> <p>Boring Completed: 4/13/76 - 4:30 p.m.</p> <p>Driller: Joe Castleberry</p> <p><u>WATER OBSERVATIONS</u></p> <p>Drilling fluid was used from the ground surface down and the fluid did not disperse.</p> | | | | | | | | | |

LOG OF BORING FOR Coletto Creek Power Station

Sheet 1 of 1

DATE: April 14, 1976

BORING NO. CH-3

PROJECT LOCATION: Fannin, Texas

TYPE: Core

LOCATION: See Plat

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample Number | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|---------------|---|--------------|----------------|-----------|-------------|
| | | | | | Ground surface elevation = 113.0 | | | | |
| | | | | | Brown silty sand (SM) | | | 112.0 | |
| 5 | | X | 33 | J-1 | Tan clayey sand (SC) | | | 105.5 | |
| 10 | | X | 26 | J-2 | Tan clay lense (CH) | | | | |
| 15 | | X | 45 | J-3 | Light tan sand, coarse grained, w/scattered gravel and caliche particles (SP) | | | | |
| 20 | | X | 47 | J-4 | | | | | |
| 25 | | X | 25 | J-5 | | | | | |
| 30 | | X | 24 | J-6 | | | | 83.0 | |
| | | | | | Total depth of boring = 30.0 feet | | | | |
| | | | | | <u>NOTES:</u> | | | | |
| | | | | | Project No. 4857 | | | | |
| | | | | | Boring Started: 4/14/76 - 10:30 a.m. | | | | |
| | | | | | Boring Completed: 4/14/76 - 12:00 p.m. | | | | |
| | | | | | Driller: Joe Castleberry | | | | |
| | | | | | <u>WATER OBSERVATIONS</u> | | | | |
| | | | | | Drilling fluid was used from the ground surface down and did not disperse. | | | | |

LOG OF BORING
FOR
Coletto Creek Power Station

Sheet 1 of 3

DATE: April 13, 1976

PROJECT LOCATION: Fannin, Texas

TYPE: Core

BORING NO. CH-4
LOCATION: See Plat

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample Number | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|---------------|--|--------------|----------------|-----------|-------------|
| | | | | | Ground surface elevation = 120.6 | | | | |
| | | | | | Brown silty sand (SM) | | | 119.6 | |
| 5 | | 27 | | J-1 | Tan clayey sand w/red streaks (SC) | | | | |
| 10 | | 22 | | J-2 | | | | 111.6 | |
| 15 | | 37 | | J-3 | Tan silty sand w/scattered clayey sand lenses (SM) | | | | |
| 20 | | 49 | | J-4 | Light gray and tan sand w/scattered gravel (SP) | | | 102.6 | |
| 25 | | 30 | | J-5 | | | | | |
| 30 | | 28 | | J-6 | Tan and light gray silty sand (SM) | | | | |
| 35 | | 17 | | J-7 | Light gray clayey sand (SC) | | | | |
| | | | | | Tan and light gray silty sand (SM) | | | | |
| 40 | | 23 | | J-8 | | | | 87.1 | |
| | | | | | | | | 80.6 | |
| | | | | | Continued on next page | | | | |

LOG OF BORING
FOR

Sheet 2 of 3

Coletto Creek Power Station

DATE: April 13, 1976

PROJECT LOCATION: Fannin, Texas

TYPE: Core

BORING NO. CH-4, Cont'd
LOCATION: See Plat

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample Number | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------------------|--------|--------|------------------|---------------|--|--------------|----------------|-----------|-------------|
| | | | | | Tan and light gray silty sand (SM) | | | 77.6 | |
| 45 | | X | 100 | J-9 | 5 1/6", 49/5-1/2" | | | | |
| | | | | | Tan sand, coarse grained, w/gravel (SP) | | | | |
| 50 | | X | 100 | J-10 | 100/5-1/2" | | | | |
| | | | | | Began drilling 4/14/76 | | | | |
| | | | | | | | | 68.2 | |
| 55 | | X | 67 | J-11 | Light gray and tan clayey sand w/caliche and scattered gravel (SC) | | | | |
| | | | | | | | | 62.1 | |
| 60 | | X | 57 | J-12 | Tan and light tan clay w/scattered black specks (CH) | | | | |
| 65 | | X | 60 | J-13 | | | | | |
| 70 | | X | 49 | J-14 | | | | | |
| 75 | | | | S-1 | | | | | |
| 80 | | | | S-2 | | | | 40.6 | |
| Continued on next page | | | | | | | | | |

LOG OF BORING
FOR
Coletto Creek Power Station

Sheet 3 of 3

DATE: April 14, 1976

PROJECT LOCATION: Fannin, Texas

TYPE: Core

BORING NO. CH-4, Cont'd

LOCATION: See Plat

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample Number | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|---------------|--|--------------|----------------|-----------|-------------|
| 85 | | | | | Tan and light tan clay w/scattered black specks (CH) | | | 37.1 | |
| 85 | | X | 67 | J-15 | Light gray and tan sand (SP) | | | 34.6 | |
| 90 | | | | S-3 | Tan and light tan clay w/scattered black specks (CH) | | | | |
| 95 | | X | 61 | J-16 | | | | | |
| 100 | | | | S-4 | | | | 20.6 | |
| | | | | | Total depth of boring = 100.0 feet | | | | |
| | | | | | <u>NOTES:</u> | | | | |
| | | | | | Project No. 4857 | | | | |
| | | | | | Boring Started: 4/13/76 - 5:00 p.m. | | | | |
| | | | | | Boring Completed: 4/14/76 - 9:30 a.m. | | | | |
| | | | | | Driller: Joe Castleberry | | | | |
| | | | | | <u>WATER OBSERVATIONS</u> | | | | |
| | | | | | Drilling fluid was used from the ground surface down and did not disperse. | | | | |

LOG OF BORING
FOR
Coleta Creek Power Station

Sheet 1 of 2

DATE: April 13, 1976

BORING NO. CH-5

PROJECT LOCATION: Fannin, Texas

TYPE: Core

LOCATION: See Plat

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample Number | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|---------------|--------|--------|---------------------|------------------|--|-----------------|-------------------|-----------|-------------|
| | | | | | Ground surface elevation = 116.5 | | | | |
| | | | | | Brown silty sand (SM) | | | 114.5 | |
| 5 | | X | 34 | J-1 | Brown, tan and light gray clayey sand w/red streaks and scattered gravel (SC) | | | 109.5 | |
| 10 | | X | 29 | J-2 | Light gray and tan clayey sand w/scattered gravel (SC) | | | | |
| 15 | | X | 55 | J-3 | | | | | |
| 20 | | X | 37 | J-4 | | | | 97.5 | |
| 25 | | X | 31 | J-5 | Light gray and tan clay w/sand lenses, caliche nodules and wood particles (CH) | | | 90.5 | |
| 30 | | X | 67 | J-6 | Tan sand, coarse grained (SP) | | | | |
| 35 | | | | | Drilled past 35.0 foot depth by accident and did not take a sample. | | | | |
| 40 | | | | | | | | 76.5 | |
| | | | | | Continued on next page | | | | |

| LOG OF BORING FOR Coletto Creek Power Station | | | | | | Sheet 2 of 2 | | | |
|---|--------|---------------------------------|------------------|---|----------------------|---|----------------|-----------|-------------|
| DATE: April 13, 1976 | | PROJECT LOCATION: Fannin, Texas | | TYPE: Core | | BORING NO. CH-5, Cont'd LOCATION: See Plat | | | |
| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample Number | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
| 45 | | 38 | J-7 | Tan sand, coarse grained (SP) | | | 72.5 | | |
| 45 | | 75 | J-8 | Yellowish tan clayey sand w/caliche (SC) | | | 70.0 | | |
| 50 | | 39 | J-9 | Light gray clayey sand w/caliche nodules (SC) | | | 66.5 | | |
| <p>Total depth of boring = 50.0 feet</p> <p><u>NOTES:</u></p> <p>Project No. 4857</p> <p>Boring Started: 4/13/76 - 7:00 a.m.</p> <p>Boring Completed: 4/13/76 - 10:00 a.m.</p> <p>Driller: Joe Castleberry</p> <p><u>WATER OBSERVATIONS</u></p> <p>Drilling fluid was used from the ground surface down and did not disperse.</p> | | | | | | | | | |

LOG OF BORING
FOR
COLETO CREEK POWER STATION

Sheet 1 of 2

DATE: June 5, 1975

BORING NO. DSS-1

PROJECT LOCATION: Fannin, Texas

TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|--------------------------|---|--------------|----------------|-----------|-------------|
| | | | | | Ground Surface Elevation=135.2 Ft. | | | | |
| 5 | | X | 19 | -J-1 | Brown and Tan Clayey Sand (SC) | | | | |
| | | X | 80 | -J-2 | | | | | |
| 10 | | X | 17 | -J-3 | Light Gray and Tan Clayey Sand w/Scattered Lignite Particles and Calcium Pockets (SC) | | | 127.7 | |
| 15 | | X | 30 | -J-4 | | | | | |
| 20 | | X | 34 | -J-5 | | | | | |
| 25 | | X | 33 | -J-6 | Light Gray and Tan Sand (SP) | | | 112.2 | |
| 30 | | X | 38 | -J-7 | | | | | |
| 35 | | X | 82 | -J-8 | | | | 99.9 | |
| | 0/0 | | | | Tan Caliche and Gravel | | | 98.9 | |
| | | | | | Tan Sand w/Calcium Pockets (SP) | | | | |
| 40 | | X | 100 | -J-9, 61/6.00", 39/2.00" | | | | | |
| | | | | CONTINUED | | | | | |

LOG OF BORING
FOR
COLETO CREEK POWER STATION

Sheet 2 of 2

DATE: June 5, 1975

PROJECT LOCATION: Fannin, Texas TYPE: Core

BORING NO. DSS-1
LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|------------|--|--------------|----------------|-----------|-------------|
| | | | | | Tan Sand w/Calcium Pockets (SP) | | | 92.2 | |
| 45 | | X | 100 | -J-10 | 44/6.00", 56/3.00" | | | | |
| | | | | | Tan Sand (SP) | | | 86.7 | |
| 50 | | X | 64 | -J-11 | Light Gray and Yellowish Tan Sandy Clay (CL) | | | 84.7 | |
| | | | | | Total Depth of Boring = 50.5 Feet | | | | |
| | | | | | <u>Notes:</u> | | | | |
| | | | | | Project No. 4857 | | | | |
| | | | | | Boring Started: June 5, 1975 3:00 pm | | | | |
| | | | | | Boring Completed: June 5, 1975 5:15 pm | | | | |
| | | | | | Driller: Joe Castleberry | | | | |
| | | | | | <u>Water Observations</u> | | | | |
| | | | | | Drilling fluid was used from the ground surface down and the fluid did not disperse. | | | | |
| | | | | | <u>Grout Record</u> | | | | |
| | | | | | Date: June 5, 1975 | | | | |
| | | | | | W. C. = 1.5/1.0 Cu. Ft. Water/Sack | | | | |
| | | | | | Bentonite = 5.0%/Sack of Cement | | | | |
| | | | | | Volume Mixed = 6.0 Cu. Ft. | | | | |
| | | | | | Volume Used = 6.0 Cu. Ft. | | | | |
| | | | | | Cement 3 Sacks, Bentonite 1/2 Sack | | | | |
| | | | | | Grout Time: 2 Hours | | | | |
| | | | | | <u>Clearing</u> | | | | |
| | | | | | 2.5 Hours | | | | |

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| LOG OF BORING FOR COLETO CREEK POWER STATION | | | | | | | Sheet 1 of 2 | | |
|--|--------|--------|------------------|-----------------------------------|--|--------------------|----------------|-----------|-------------|
| DATE: June 5, 1975 | | | | BORING NO. DSS-2 | | | | | |
| PROJECT LOCATION: Fannin, Texas | | | | TYPE: Core | | LOCATION: See Plan | | | |
| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
| | | | | | Ground Surface Elevation=126.3 Ft. | | | | |
| 5 | | | 25 | J-1 | Brown, Light Gray, and Tan Clayey Sand w/Lignite and Caliche Particles (SC) | | | | |
| | | | 32 | J-2 | | | | 119.3 | |
| 10 | | | 30 | J-3 | Light Gray Clayey Sand and White Calcium w/Lignite Particles (Caliche) | | | | |
| 15 | | | 50 | J-4 | | | | 108.3 | |
| 20 | | | 38 | J-5 | Light Gray and Yellowish Tan Clayey Sand w/Scattered Gravel and Sand Lenses (SC) | | | | |
| 25 | | | 71 | J-6 | | | | 98.8 | |
| | | | | | Tan Sandstone | | | 97.8 | |
| 30 | | | 60 | J-7 | Light Gray and Tan Sand w/Scattered Gravel (SP) | | | 95.8 | |
| | | | | | Tan Sand and Gravel (SP) | | | 93.8 | |
| 35 | | | 100 | J-8, 40/6.00", 60/6.00" | Light Gray and Yellow Sandy Clay w/Caliche (CL) | | | 87.8 | |
| 40 | | | 100 | J-9, 22/6.00", 50/6.00", 28/2.00" | Light Tan Sand w/Caliche Layers (SP) | | | | |
| CONTINUED | | | | | | | | | |

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LOG OF BORING
FOR

Sheet 2 of 2

COLETO CREEK POWER STATION

DATE: June 5, 1975

BORING NO. DSS-2

PROJECT LOCATION: Fannin, Texas

TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|--|--------|--------|------------------|-----------------|--|--------------|----------------|-----------|-------------|
| 45 | | | 100 | J-10, 100/6.00" | Light Tan Sand w/Caliche Layers (SP) | | | 78.3 | |
| 50 | | | 100 | J-11, 100/6.00" | Light Gray and Tan Clayey Sand w/Caliche Layers (SC) | | | 76.8 | |
| <p>Total Depth of Boring = 49.5 Feet</p> <p><u>Notes:</u> Project No. 4857 Boring Started: June 5, 1975 9:00 am Boring Completed: June 5, 1975 12:00 noon Driller: Joe Castleberry</p> <p><u>Water Observations</u> Drilling fluid was used from the ground surface down and the fluid did not disperse.</p> <p><u>Grout Record</u> Date: June 5, 1975 W. C. = 1.5/1.0 Cu. Ft. Water/Sack Bentonite = 5.0%/Sack of Cement Volume Mixed = 6.0 Cu. Ft. Volume Used = 6.0 Cu. Ft. Cement 3 Sacks, Bentonite 1/2 Sack Grout Time: 2 Hours</p> <p><u>Clearing</u> 1 Hour</p> | | | | | | | | | |

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LOG OF BORING
FOR
COLETO CREEK POWER STATION

DATE: June 18, 1975

PROJECT LOCATION: Fannin, Texas

TYPE: Auger

BORING NO. DSS-3

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|------------|--|--------------|----------------|-----------|-------------|
| | | | | | Ground Surface Elevation=125.0 Ft. | | | | |
| | | | | J-1 | Brown Clayey Sand (SM) | | | 124.0 | |
| | | | | J-2 | Brown Clayey Sand (SC) | | | | |
| | | | | J-3 | | | | 121.0 | |
| 5 | | | | J-4 | Tan and Gray Clayey Sand w/ Calcareous Particles and Nodules (SC) | | | 118.0 | |
| | | | | J-5 | Tan Silty Sand (SM) | | | 116.0 | |
| 10 | | | | J-6 | Light Tan Silty Sand w/Sandstone Layers (SM) | | | 113.0 | |
| | | | | J-7 | Tan Silty Sand w/Sandstone Lenses and Layers and Gravel (SM) | | | 111.0 | |
| 15 | | | | J-8 | Light Tan Clayey Sand and White Calcium (Caliche) | | | 107.0 | |
| | | | | J-9 | Tan Silty Sand w/Scattered Gravel and Sandstone Lenses and Layers (SM) | | | 105.0 | |
| 20 | | | | J-10 | Tan Sandstone | | | 104.7 | |
| 25 | | | | | Total Depth of Boring = 20.3 Feet Auger would not penetrate the sandstone deeper. | | | | |
| | | | | | <u>Notes:</u> Project No. 4857 Boring Started: June 18, 1975 10:00 am Boring Completed: June 18, 1975 11:00 am Driller: George Whitehead | | | | |
| | | | | | <u>Water Observations</u> Boring was drilled without fluid and groundwater was not encountered. | | | | |
| | | | | | <u>Grout Record</u> Date: June 19, 1975 Volume Mixed = 15.0 Cu. Ft. Concrete Volume Used = 15.0 Cu. Ft. Concrete Grout Time: 1 Hour Clearing Time: None | | | | |

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| LOG OF BORING FOR COLETO CREEK POWER STATION | | | | | | | | | |
|--|--------|--------|------------------|-------------------------------------|---|--------------|----------------|-----------|-------------|
| DATE: June 18, 1975 | | | | | BORING NO. DSS-4 | | | | |
| PROJECT LOCATION: Fannin, Texas | | | | | TYPE: Core w/ Permeability Tests | | | | |
| PROJECT LOCATION: Fannin, Texas | | | | | LOCATION: See Plan. | | | | |
| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
| | | | | | Ground Surface Elevation=126.5 Ft. | | | | |
| 5 | | X | 16 | - J-1 | Light Gray, Tan, and Brown Clayey Sand w/Sand Lenses, Scattered Lignite Particles, and Caliche Nodules (SC) | | | 120.5 | |
| | | X | 22 | - J-2 | | | | | |
| 10 | | X | 14 | - J-3 | Light Gray and Tan Sand w/ Scattered Caliche Nodules (SP) | | | 113.0 | |
| 15 | | X | 100 | - J-4, 45/6.00", 55/2.00" | Light Gray and Yellowish Tan Clayey Sand w/Caliche (SC) | | | 109.5 | |
| 20 | | X | 100 | - J-5, 100/6.00" | Light Gray Clayey Sand and White Calcium (Caliche) | | | 103.5 | |
| 25 | | X | 100 | - J-6, 60/6.00", 40/1.00" | Light Gray Clayey Sand and White Calcium w/Gravel (Caliche) | | | 98.5 | |
| 30 | | X | 100 | - J-7, 30/6.00", 70/4.00" | Tan Sand (SP) | | | 93.0 | |
| 35 | | X | 21 | - J-8 | Light Gray Clay w/Sand Lenses (CH) | | | 88.5 | |
| 40 | | X | 100 | - J-9, 18/6.00", 60/6.00", 22/3.00" | Tan Silty Sand (SM) | | | | |
| | | | | | CONTINUED | | | | |

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LOG OF BORING
FOR

Sheet 2 of 2

COLETO CREEK POWER STATION

DATE: June 18, 1975

BORING NO: DSS-4

PROJECT LOCATION: Fannin, Texas

TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE | | | | |
|---|--------------------|--------|------------------|------------|---|--------------|----------------|-----------|-------------|--------------------|--------------------|----------|-----------|
| 45 | | | 30 | -J-10 | Tan Silty Sand (SM) | | | 80.5 | | | | | |
| 50 | | | 100 | -J-11 | Light Gray Clayey Sand w/Tan Streaks and Caliche Nodules (SC) 39/6.00", 61/5.00" | | | 76.6 | | | | | |
| <p>Total Depth of Boring = 49.9 Feet</p> <p><u>Notes:</u> Project No. 4857 Boring Started: June 18, 1975 10:00 am Boring Completed: June 18, 1975 8:30 am Driller: Joe Castleberry</p> <p><u>Water Observations</u> Boring hole was open to 34.0 feet and was dry on June 19, 1975 at 7:30 a.m.</p> <p><u>Grout Record</u> Date: June 19, 1975 8:30 to 10:30 am W.C. = 1.5/1.0 Cu. Ft. Water/Sack Bentonite = 5.0%/Sack of Cement Volume Mixed = 14.0 Cu. Ft. Volume Used = 14.0 Cu. Ft. Cement 7 Sacks, Bentonite 1/2 Sack Grouting Time: 2 Hours</p> <p><u>Clearing</u> None</p> <p><u>Permeability Tests</u></p> <table border="0"> <tr> <td><u>Test Depths</u></td> <td><u>Test Depths</u></td> </tr> <tr> <td>0.5- 2.0</td> <td>25.5-27.0</td> </tr> </table> <p>Testing Time: 10 Hours</p> | | | | | | | | | | <u>Test Depths</u> | <u>Test Depths</u> | 0.5- 2.0 | 25.5-27.0 |
| <u>Test Depths</u> | <u>Test Depths</u> | | | | | | | | | | | | |
| 0.5- 2.0 | 25.5-27.0 | | | | | | | | | | | | |

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LOG OF BORING
FOR

Sheet 1 of 2

COLETO CREEK POWER STATION

DATE: June 17, 1975

BORING NO. DSS-5

PROJECT LOCATION: Fannin, Texas

TYPE: Core w/

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | PERMEABILITY TESTS | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|---------------|--------|--------|---------------------|------------------------------------|---|--------------------|-----------------|-------------------|-----------|-------------|
| | | | | | | | | | | |
| | | | | | Ground Surface Elevation=125.8 Ft. | | | | | |
| 5 | | 31 | | -J-1 | Reddish Tan, Brown, and Light Gray Clayey Sand (SC) | | | | | |
| | | 28 | | -J-2 | | | | | 119.8 | |
| 10 | | 60 | | -J-3 | Light Gray Clayey Sand and White Calcium (Caliche) | | | | | |
| 15 | | 100 | | -J-4, 30/6.00", 43/6.00", 27/3.00" | | | | | 109.8 | |
| 20 | | 39 | | -J-5 | Light Gray Clay w/Tan Streaks, Black Specks, and Scattered Calcium Nodules (CH) | | | | | |
| 25 | | 61 | | -J-6 | | | | | 101.6 | |
| 30 | | 42 | | -J-7 | Tan Sand w/Scattered Gravel, Caliche Particles, and Clayey Sand Layers (SP) | | | | | |
| 35 | | 45 | | -J-8 | | | | | | |
| 40 | | 36 | | -J-9 | Light Gray Clayey Sand w/Tan Streaks (SC) | | | | 87.8 | |
| | | | | | CONTINUED | | | | | |

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LOG OF BORING
FOR

Sheet 2 of 2

COLETO CREEK POWER STATION

DATE: June 17, 1975

BORING NO. DSS-5

PROJECT LOCATION: Fannin, Texas TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE | | | |
|--------------------|--------------------|--------|------------------|---------------------------|---|--------------------|--------------------|-----------|-------------|--|--|--|
| | | | | | Light Gray Clayey Sand w/Tan Streaks (SC) | | | 83.8 | | | | |
| 45 | | | 100 | -J-10, 18/6.00", 82/1.00" | | | | | | | | |
| 50 | | | 45 | -J-11 | Light Gray and Tan Clayey Sand w/Caliche Nodules and Sand Layers (SC) | | | 75.3 | | | | |
| 55 | | | | | <p>Total Depth of Boring = 50.5 Feet</p> <p><u>Notes:</u> Project No. 4857 Boring Started: June 17, 1975 7:30 am Boring Completed: June 17, 1975 5:30 pm Driller: Joe Castleberry</p> <p><u>Water Observations</u> Drilling fluid was used from the ground surface down and the fluid did not disperse</p> <p><u>Grout Record</u> Date: June 18, 1975 7:30 to 9:30 am W.C. = 1.5/1.0 Cu. Ft. Water/Sack Bentonite = 5.0%/Sack of Cement Volume Mixed = 14.0 Cu. Ft. Volume Used = 14.0 Cu. Ft. Cement 7 Sacks, Bentonite 1/2 Sack Grouting Time: 2 Hours</p> <p><u>Clearing</u> None</p> <p><u>Permeability Tests</u> <table border="0"> <tr> <td><u>Test Depths</u></td> <td><u>Test Depths</u></td> </tr> <tr> <td>5.5-7.5</td> <td>40.5-42.0</td> </tr> </table> Testing Time: 7 Hours</p> | <u>Test Depths</u> | <u>Test Depths</u> | 5.5-7.5 | 40.5-42.0 | | | |
| <u>Test Depths</u> | <u>Test Depths</u> | | | | | | | | | | | |
| 5.5-7.5 | 40.5-42.0 | | | | | | | | | | | |

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LOG OF BORING
FOR
COLETO CREEK POWER STATION

Sheet 1 of 2

DATE: June 13, 1975

BORING NO. DSS-6

PROJECT LOCATION: Fannin, Texas

TYPE: Core w/

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | PERMEABILITY TESTS | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|---------------|--------|--------|---------------------|--------------------------|---|--------------------|-----------------|-------------------|-----------|-------------|
| | | | | | | | | | | |
| | | | | | Ground Surface Elevation=121.8 Ft. | | | | | |
| 5 | | 8 | | -J-1 | Light Gray, Tan, and Brown Clayey Sand (SC) | | | | | |
| | | 28 | | -J-2 | Tan Clayey Sand w/Caliche (SC) | | | | 116.8 | |
| | | | | | | | | | 113.3 | |
| 10 | | 26 | | -J-3 | Light Gray and Tan Clayey Sand and White Calcium (Caliche) | | | | | |
| 15 | | 52 | | -J-4 | | | | | | |
| 20 | | 100 | | -J-5, 40/6.00", 60/2.00" | 100/0" Tan Sandstone | | | | 102.9 | |
| | | | | | Light Gray Clay and White Calcium (Caliche) | | | | 102.4 | |
| 25 | | 50 | | -J-6 | Tan Sand (SP) | | | | | |
| 30 | | 26 | | -J-7 | | | | | 92.3 | |
| 35 | | 50 | | -J-8 | Light Gray and Tan Clayey Sand (SC) | | | | 83.8 | |
| 40 | | | | | CONTINUED | | | | | |

B-51

**LOG OF BORING
FOR**

Sheet 2 of 2

COLETO CREEK POWER STATION

DATE: June 13, 1975

BORING NO. DSS-6

PROJECT LOCATION: Fannin, Texas

TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE | | | | | | |
|--------------------|------------------------------------|--------|------------------|------------|--|--------------|----------------|-----------|-------------|--------------------|--------------------|----------|-----------|-----------|-----------|
| | (Symbol: Diagonal lines with dots) | | | | Light Gray and Tan Clayey Sand (SC) | | | 78.8 | | | | | | | |
| 45 | | X | 17 | - J-9 | Light Gray Clayey Sand w/ Scattered Caliche and Gravel (SC) | | | | | | | | | | |
| 50 | | X | 100 | - J-10 | | | | 71.3 | | | | | | | |
| 55 | | | | | <p>Total Depth of Boring = 50.5 Feet</p> <p><u>Notes:</u> Project No. 4857 Boring Started: June 13, 1975 7:30 am Boring Completed: June 16, 1975 4:00 pm Driller: Joe Castleberry</p> <p style="text-align: center;"><u>Water Observations</u> Drilling fluid was used from the ground surface down and it did not disperse.</p> <p style="text-align: center;"><u>Grout Record</u> Date: June 16, 1975 4:00 to 6:00 pm W.C. = 1.5/1.0 Cu. Ft. Water/Sack Bentonite = 5.0%/Sack of Cement Volume Mixed = 14.0 Cu. Ft. Volume Used = 14.0 Cu. Ft. Cement 7 Sacks, Bentonite 1/2 Sack Grouting Time: 2 Hours</p> <p style="text-align: center;"><u>Clearing</u> None</p> <p style="text-align: center;"><u>Permeability Tests</u></p> <table style="width: 100%; border: none;"> <tr> <td style="border: none;"><u>Test Depths</u></td> <td style="border: none;"><u>Test Depths</u></td> </tr> <tr> <td style="border: none;">6.0- 7.5</td> <td style="border: none;">30.5-32.0</td> </tr> <tr> <td style="border: none;">15.5-17.0</td> <td style="border: none;">45.5-46.5</td> </tr> </table> <p>Testing Time: 10 Hours</p> | | | | | <u>Test Depths</u> | <u>Test Depths</u> | 6.0- 7.5 | 30.5-32.0 | 15.5-17.0 | 45.5-46.5 |
| <u>Test Depths</u> | <u>Test Depths</u> | | | | | | | | | | | | | | |
| 6.0- 7.5 | 30.5-32.0 | | | | | | | | | | | | | | |
| 15.5-17.0 | 45.5-46.5 | | | | | | | | | | | | | | |

LOG OF BORING
FOR

Sheet 1 of 3

COLETO CREEK POWER STATION

DATE: June 3, 1975

BORING NO. DSS-7

PROJECT LOCATION: Fannin, Texas

TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|--------------------------|---|--------------|----------------|-----------|-------------|
| | | | | | Ground Surface Elevation=119.4 Ft. | | | | |
| | | | | | Brown Clayey Sand (SC) | | | 117.9 | |
| 5 | | | 23 | -J-1 | Tan Clayey Sand and White Calcium (Caliche) | | | | |
| | | | | -S-1 | | | | | |
| 10 | | | 75 | -J-2 | | | | 108.4 | |
| 15 | | | 68 | -J-3 | Light Gray and Tan Clayey Sand w/Caliche Particles (SC) | | | 101.4 | |
| 20 | | | 100 | -J-4, 50/6.00", 50/3.00" | Tan Sand (SP) | | | 96.9 | |
| 25 | | | | -S-2 | Light Gray Clayey Sand w/Yellow Streaks and Caliche Particles (SC) | | | 92.9 | |
| 30 | | | 46 | -J-5 | Tan and Light Gray Sand w/ Scattered Gravel and Clayey Sand Lenses (SP) | | | | |
| | | | | | CONTINUED | | | | |

LOG OF BORING
FOR
COLETO CREEK POWER STATION

Sheet 2 of 3

DATE: June 3, 1975

BORING NO. DSS-7

PROJECT LOCATION: Fannin, Texas

TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------------------------|--------|------------------|-----------------------------------|--|--------------|----------------|-----------|-------------|
| 35 | [Symbol: Dotted] | X | 100 | J-6, 33/6.00", 51/6.00", 16/1.00" | Tan and Light Gray Sand w/Scattered Gravel and Clayey Sand Lenses (SP) | | | | |
| 40 | [Symbol: Dotted] | X | 39 | J-7 | | | | 77.4 | |
| 45 | [Symbol: Dotted] | X | 61 | J-8, J-9 | Light Gray Clayey Sand (SC) | | | 74.9 | |
| 50 | [Symbol: Diagonal lines] | X | 100 | J-10, 75/6.00", 25/2.00" | Light Gray and Yellow Sandy Clay w/Caliche (CL) | | | 67.4 | |
| 55 | [Symbol: Diagonal lines] | X | 100 | J-11, 100/4.00" | Light Gray Clayey Sand and White Calcium (Caliche) | | | 60.9 | |
| 60 | [Symbol: Dotted] | X | 100 | 70/6.00", 30/2.00" | Light Gray and Tan Sand (SP) | | | | |
| CONTINUED | | | | | | | | | |

LOG OF BORING
FOR
COLETO CREEK POWER STATION

Sheet 3 of 3

DATE: June 3, 1975

BORING NO. DSS-7

PROJECT LOCATION: Fannin, Texas

TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|--|--------|--------|------------------|------------|------------------------------------|--------------|----------------|-----------|-------------|
| | | | | | Light Gray and Tan Sand (SP) | | | 55.4 | |
| 65 | | | 100 | -100/0.00" | Tan Sandstone | | | 53.9 | |
| | | | | | Light Gray and Tan Sandy Clay (CL) | | | | |
| 70 | | | | S-3 | | | | 49.4 | |
| <p>Total Depth of Boring = 70.0 Feet</p> <p><u>Notes:</u> Project No. 4857 Boring Started: June 3, 1975 4:30 pm Boring Completed: June 4, 1975 10:00 am Driller: Joe Castleberry</p> <p><u>Water Observations</u> Drilling fluid was used from the ground surface down and the fluid did not disperse.</p> <p><u>Grout Record</u> Date: June 4, 1975 W. C. = 1.5/1.0 Cu. Ft. Water/Sack Bentonite = 5.0%/Sack of Cement Volume Mixed = 10.0 Cu. Ft. Volume Used = 10.0 Cu. Ft. Cement 5 Sacks, Bentonite 1/2 Sack Grout Time: 2 Hours</p> <p><u>Clearing</u> 1 Hour</p> | | | | | | | | | |

B-55

LOG OF BORING
FOR
COLETO CREEK POWER STATION

Sheet 1 of 3

DATE: June 2, 1975

PROJECT LOCATION: Fannin, Texas TYPE: Core

BORING NO. DSS-8

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|------------|--|--------------|----------------|-----------|-------------|
| | | | | | Ground Surface Elevation=117.2 Ft. | | | | |
| 5 | | X | 23 | -J-1 | Light Gray and Tan Clayey Sand and White Calcium (Caliche) | | | | |
| | | | | -S-1 | | | | | |
| 10 | | X | 60 | -J-2 | | | | 106.7 | |
| | | | | | Light Tan Silty Sand w/Scattered Sandstone Lenses (S.M) | | | | |
| 15 | | X | 100 | J-3 | LJ-3, 22/6.00", 35/6.00", 43/4.50" | | | 100.2 | |
| | | | | | Light Tan Clayey Sand and White Calcium w/Scattered Gravel (Caliche) | | | | |
| 20 | | X | 100 | J-4 | LJ-4, 14/6.00", 46/6.00", 40/1.00" | | | 96.2 | |
| | | | | | Light Gray Sand w/Sandstone Lenses (SP) | | | | |
| 25 | | X | 100 | J-5 | LJ-5, 43/6.00", 57/1.00" | | | 91.2 | |
| | | | | | Light Gray Clay | | | 90.2 | |
| | | | | | Tan Sand w/Caliche Layers (SP) | | | | |
| 30 | | X | 100 | J-6 | J-6, 31/6.00", 69/4.00" | | | | |
| | | | | | CONTINUED | | | | |

LOG OF BORING
FOR

COLETO CREEK POWER STATION

DATE: June 2, 1975

BORING NO. DSS-8

PROJECT LOCATION: Fannin, Texas

TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|------------|---|--------------|----------------|-----------|-------------|
| | | | | | Tan Sand w/Caliche Layers (SP) | | | 85.2 | |
| 35 | | X | 40 | -J-7 | Tan and Light Gray Sand w/ Scattered Gravel (SP) | | | | |
| 40 | | X | 78 | -J-8 | Light Tan Clayey Sand w/Black Specks | | | 78.7 | |
| | | | | | Yellow and Light Tan Clay w/Light Gray Clayey Sand Layers and Caliche Nodules (CH) | | | 76.2 | |
| 45 | | X | 82 | -J-9 | Tan Sand | | | 72.2 | |
| | | | | | Light Gray Clay | | | 71.2 | |
| 50 | | | 100 | -J-10 | Light Gray and Tan Sandstone | | | 68.7 | |
| | | | | | Light Tan Sand w/Black Specks, Clayey Sand Layers, Calcareous Particles, and Scattered Gravel and Sandstone Layers (SP) | | | 67.2 | |
| 55 | | X | 100 | -J-11 | Light Gray and Yellowish Tan Sandstone | | | 61.7 | |
| 60 | | | 100 | -100/4.50" | | | | | |

CONTINUED

LOG OF BORING
FOR

Sheet 3 of 3

COLETO CREEK POWER STATION



DATE: June 2, 1975

BORING NO. DSS-8

PROJECT LOCATION: Fannin, Texas

TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|--|---|--------|------------------|------------|--|--------------|----------------|-----------|-------------|
| | | | | | Light Gray and Yellowish Tan Sandstone | | | 56.2 | |
| 65 |  | X | 100 | -J-12, | 17/6.00", 30/6.00", 53/5.00" | | | | |
| | | | | | Tan and Light Tan Clay w/Black Specks, Sand Lenses, and Caliche Nodules (CH) | | | | |
| 70 |  | X | 100 | -J-13, | 34/6.00", 66/5.00" | | | 47.2 | |
| Total Depth of Boring = 70.0 Feet | | | | | | | | | |
| <u>Notes:</u> | | | | | | | | | |
| Project No. 4857 | | | | | | | | | |
| Boring Started: June 2, 1975 5:30 pm | | | | | | | | | |
| Boring Completed: June 3, 1975 11:30 am | | | | | | | | | |
| Driller: Graham Davis | | | | | | | | | |
| <u>Water Observations</u> | | | | | | | | | |
| Drilling fluid was used from the ground surface down and the fluid did not disperse. | | | | | | | | | |
| <u>Grout Record</u> | | | | | | | | | |
| Date: June 3, 1975 | | | | | | | | | |
| W. C. = 1.5/1.0 Cu. Ft. Water/Sack | | | | | | | | | |
| Bentonite = 5.0%/Sack of Cement | | | | | | | | | |
| Volume Mixed = 12.0 Cu. Ft. | | | | | | | | | |
| Volume Used = 12.0 Cu. Ft. | | | | | | | | | |
| Cement 6 Sacks, Bentonite 1/2 Sack | | | | | | | | | |
| Grout Time: 4 Hours | | | | | | | | | |
| <u>Clearing</u> | | | | | | | | | |
| 2 Hours | | | | | | | | | |

LOG OF BORING
FOR

Sheet 1 of 3

COLETO CREEK POWER STATION

DATE: June 2, 1975

BORING NO. DSS-9

PROJECT LOCATION: Fannin, Texas

TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | IN-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|-------------------|------------------------------------|--|--------------|----------------|-----------|-------------|
| | | | | | Ground Surface Elevation=124.3 Ft. | | | | |
| 5 | | X | 13 | -J-1 | Brown, Tan, and Red Clayey Sand (SC) | | | | |
| | | | | -S-1 | | | | 117.3 | |
| 10 | | X | 100 | -J-2, 35/6.00", 50/6.00", 15/1.50" | Light Gray Clayey Sand and White Calcium (Caliche) | | | | |
| 15 | | | | -S-2 | | | | 105.8 | |
| 20 | | X | 28 | -J-3 | Tan Silty Sand w/Yellowish Tan Streaks (SM) | | | | |
| 25 | | | | -J-4 | Tan Sand (SP) | | | 102.3 | |
| 30 | | X | 100 | -J-5, 40/6.00", 50/6.00", 10/0.50" | Light Gray Clayey Sand and White Calcium w/Sand Lenses (Caliche) | | | | |
| | | | | | | | | 96.3 | |
| | | | | | CONTINUED | | | | |

LOG OF BORING
FOR

Sheet 2 of 3

COLETO CREEK POWER STATION

DATE: June 2, 1975

BORING NO. DSS-9

PROJECT LOCATION: Fannin, Texas

TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|------------|--|--------------|----------------|-----------|-------------|
| | 0/0 | | | | Light Gray Clayey Sand and White Calcium w/Sand Lenses (Caliche) | | | 91.3 | |
| 35 | | | 100 | J-6 | 40/6.00", 50/6.00", 10/1.50" | | | 88.3 | |
| 40 | | | | S-3 | Light Gray and Tan Clayey Sand w/Caliche Particles (SC) | | | | |
| 45 | | | 31 | J-7 | | | | | |
| 50 | | | | S-4 | | | | | |
| 55 | | | 100 | -100/0.00" | Tan Sandstone w/Sand Lenses | | | 72.3 | |
| | 0/0 | | | | Light Gray and Tan Clayey Sand and White Calcium (Caliche) | | | 69.3 | |
| 60 | 0/0 | | 82 | J-8 | | | | | |
| | | | | | CONTINUED | | | | |

B-60

LOG OF BORING
FOR

Sheet 3 of 3

COLETO CREEK POWER STATION

DATE: June 2, 1975

BORING NO. DSS-9

PROJECT LOCATION: Fannin, Texas

TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|-----------------|---|--------------|----------------|-----------|-------------|
| 65 | 0/0 | | 100 | -J-9, 100/4.00" | Light Gray and Tan Clayey Sand and White Calcium (Caliche) | | | 59.3 | |
| | | | | | Tan Sandstone | | | 58.3 | |
| 70 | | | 28 | -J-10 | Light Gray and Tan Sandy Clay (CL) | | | 53.8 | |
| 75 | | | | | Total Depth of Boring = 70.5 Feet | | | | |
| | | | | | Notes: Project No. 4857 Boring Started: June 2, 1975 7:30 am Boring Completed: June 2, 1975 10:45 am Driller: Joe Castleberry | | | | |
| | | | | | Water Observations Drilling fluid was used from the ground surface down and the fluid did not disperse. | | | | |
| | | | | | Grout Record Date: June 2, 1975 W. C. = 1.5/1.0 Cu. Ft. Water/Sack Bentonite = 5.0%/Sack of Cement Volume Mixed = 10.0 Cu. Ft. Volume Used = 10.0 Cu. Ft. Cement 5 Sacks, Bentonite 1/2 Sack Grout Time: 2.5 Hours | | | | |
| | | | | | Clearing None | | | | |

B-61

LOG OF BORING
FOR

Sheet 1 of 2

COLETO CREEK POWER STATION

DATE: May 30, 1975

BORING NO. DSS-10

PROJECT LOCATION: Fannin, Texas

TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|------------------------------------|--|--------------|----------------|-----------|-------------|
| | | | | | Ground Surface Elevation=119.8 Ft. | | | | |
| | | | 20 | LJ-1 | Tan and Brown Sandy Clay w/Red Streaks (CL) | | | 116.3 | |
| 5 | | | | -S-1 | Tan and Gray Sandy Clay w/Red Streaks and Caliche Nodules (CL) | | | 111.3 | |
| 10 | | | 22 | -J-2 | Tan and Gray Clay w/Clayey Sand Layers, Black Specks, Yellow Streaks, and Caliche Nodules (CH) | | | 107.8 | |
| | | | | | Tan Sandstone | | | 107.3 | |
| 15 | | | 17 | -J-3 | Tan Sand w/Scattered Gravel (SP) | | | 101.8 | |
| 20 | | | 82 | -J-4 | Tan Sand, Coarse-Grained, w/Gravel (SP) | | | 98.8 | |
| 25 | | | 56 | -J-5 | Light Tan Clay w/Sand Lenses, Sandstone Layers, and Caliche Nodules (CH) | | | 94.3 | |
| 30 | | | 100 | -J-6, 25/6.00", 48/6.00", 27/2.00" | Tan Sand, Coarse-Grained, w/Clayey Sand Lenses and Gravel (SP) | | | | |
| | | | | | CONTINUED | | | | |

LOG OF BORING
FOR
COLETO CREEK POWER STATION

Sheet 2 of 2

DATE: May 30, 1975

BORING NO. DSS-10

PROJECT LOCATION: Fannin, Texas

TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE | | | | | | |
|--|-------------|--------------|------------------|------------|--|--------------|----------------|-----------|-------------|-------------|-------------|--------------|--|--|--|
| | | | | | Tan Sand, Coarse-Grained, w/ Clayey Sand Lenses and Gravel (SP) | | | 88.3 | | | | | | | |
| 35 | | | 57 | -J-7 | Light Tan Clayey Sand and Tan Sand w/ Yellow Streaks and Black Specks (SC) | | | 83.8 | | | | | | | |
| 40 | | | | -S-2 | Light Tan Sandy Clay w/ Scattered Gravel (CL) | | | 78.8 | | | | | | | |
| 45 | | | 90 | -J-8 | Light Tan Clay w/ Yellow Streaks and Caliche Nodules (CH) | | | | | | | | | | |
| 50 | | | | -S-3 | | | | 70.6 | | | | | | | |
| <p>Total Depth of Boring = 49.2 Feet</p> <p><u>Notes:</u></p> <p>Project No. 4857 Boring Started: 5-30-75 8:00 a.m. Boring Completed: 5-30-75 10:00 a.m. Driller: Graham Davis</p> <p><u>Water Observations</u></p> <table border="0"> <tr> <td><u>Date</u></td> <td><u>Time</u></td> <td><u>Depth</u></td> </tr> <tr> <td colspan="3">Drilling fluid was used from the ground surface down and the fluid did not disperse.</td> </tr> </table> <p><u>Grout Record</u></p> <p>Date: 5-30-75 10:00 a.m. to 12:00 noon W. C. = 1.5/1.0 Cu. Ft. Water/Sack Bentonite = 5.0%/Sack of Cement Volume Mixed = 8.0 Cu. Ft. Volume Used = 8.0 Cu. Ft. Cement 4 Sacks, Bentonite 1/2 Sack Grouting = 2 Hours</p> <p><u>Clearing</u></p> <p>1/2 Hour</p> | | | | | | | | | | <u>Date</u> | <u>Time</u> | <u>Depth</u> | Drilling fluid was used from the ground surface down and the fluid did not disperse. | | |
| <u>Date</u> | <u>Time</u> | <u>Depth</u> | | | | | | | | | | | | | |
| Drilling fluid was used from the ground surface down and the fluid did not disperse. | | | | | | | | | | | | | | | |

LOG OF BORING
FOR
COLETO CREEK POWER STATION

Sheet 1 of 3

DATE: June 3, 1975

BORING NO. DSS-11

PROJECT LOCATION: Fannin, Texas TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Pocket Pen. T/af | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|---------------------------|--|--------------|----------------|-----------|-------------|
| | | | | | Ground Surface Elevation=121.4 Ft. | | | | |
| 5 | | | 18 | -J-1 | Brown, Tan, and Red Clayey Sand (SC) | | | 115.4 | |
| | | | | -S-1 | | | | | |
| 10 | | | 27 | -J-2 | Light Gray and Tan Clayey Sand w/ Calcium Pockets (SC) | | | 110.4 | |
| 15 | | | 46 | -J-3 | Light Tan Clayey Sand (SC) | | | 105.4 | |
| 20 | | | 76 | -J-4 | Light Gray and Tan Sand w/ Scattered Caliche Lenses (SP) | | | 101.4 | |
| 25 | | | 100 | -J-5, 100/3.00" | Light Gray and Tan Sandstone w/ Sand Lenses and Layers | | | 93.4 | |
| 30 | | | 100 | -J-6, 42/6", 35/6", 23/3" | Tan Sand (SP) | | | 91.9 | |
| | | | | | Light Gray and Tan Clayey Sand (SC) | | | | |
| | | | | | CONTINUED | | | | |

LOG OF BORING
FOR
COLETO CREEK POWER STATION

Sheet 2 of 3

DATE: June 4, 1975

PROJECT LOCATION: Fannin, Texas

TYPE: Core

BORING NO. DSS-11

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|-------------------------------------|--|--------------|----------------|-----------|-------------|
| | | | | | Light Gray and Tan Clayey Sand (SC) | | | | |
| 35 | | X | 77 | -J-7 | Light Gray Clayey Sand w/Sandstone Lenses and Scattered Caliche Particles (SC) | | | 87.6 | |
| 40 | | X | 100 | -J-8, 20/6.00", 80/3.00" | Light Gray Sand (SP) | | | 83.9 | |
| 45 | | X | 100 | -J-9, 45/6.00", 55/6.00" | Light Gray and Tan Clayey Sand and White Calcium (Caliche) | | | 79.4 | |
| 50 | | X | 100 | -J-10, 17/6.00", 43/6.00", 40/5.50" | | | | | |
| 55 | | X | 100 | -J-11, 38/6.00", 62/2.00" | Light Gray Clayey Sand w/Sandstone Lenses (SC) | | | 69.4 | |
| | | | | | Tan Sandstone | | | 66.4 | |
| 60 | | X | 39 | -J-12 | Light Gray and Tan Clayey Sand (SC) | | | 62.9 | |
| CONTINUED | | | | | | | | | |

LOG OF BORING
FOR

Sheet 3 of 3

COLETO CREEK POWER STATION

DATE: June 4, 1975

BORING NO. DSS-11

PROJECT LOCATION: Fannin, Texas

TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|--|--------|--------|------------------|------------|-------------------------------------|--------------|----------------|-----------|-------------|
| | | | | | Light Gray and Tan Clayey Sand (SC) | | | 58.4 | |
| 65 | | | 43 | J-13 | Light Tan Clayey Sand (SC) | | | 54.4 | |
| | | | | | Tan Sand (SP) | | | 52.1 | |
| 70 | | | 100 | J-14 | 100/4.00" | | | | |
| Total Depth of Boring = 69.3 Feet | | | | | | | | | |
| <p><u>Notes:</u> Project No. 4857 Boring Started: June 3, 1975 4:00 pm Boring Completed: June 4, 1975 12:00 noon Driller: Graham Davis</p> | | | | | | | | | |
| <p><u>Water Observations</u> Drilling fluid was used from the ground surface down and the fluid did not disperse.</p> | | | | | | | | | |
| <p><u>Grout Record</u> Date: June 4, 1975 W.C. = 1.5/1.0 Cu. Ft. Water/Sack Bentonite = 5.0%/Sack of Cement Volume Mixed = 12.0 Cu. Ft. Volume Used = 12.0 Cu. Ft. Cement 6 Sacks, Bentonite 1/2 Sack Grout Time: 2 Hours <u>Clearing</u> 2.5 Hours</p> | | | | | | | | | |

LOG OF BORING
FOR
COLETO CREEK POWER STATION

Sheet 1 of 2

DATE: June 6, 1975

BORING NO. DSS-12

PROJECT LOCATION: Fannin, Texas

TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|------------------------------------|--|--------------|----------------|-----------|-------------|
| | | | | | Ground Surface Elevation=125.2 Ft. | | | | |
| | | | | | Brown and Tan Clayey Sand (SC) | | | | |
| | | | 34 | -J-1 | | | | 122.2 | |
| 5 | | | 22 | -J-2 | Light Gray and Tan Clayey Sand w/ Scattered Lignite Particles (SC) | | | | |
| 10 | | | 22 | -J-3 | | | | 113.2 | |
| 15 | | | 47 | -J-4 | Light Gray and Tan Clayey Sand w/Caliche Layers (SC) | | | 108.2 | |
| 20 | | | 37 | -J-5 | Light Gray and Tan Sand w/ Scattered Gravel (SP) | | | | |
| 25 | | | 100 | -J-6, 18/6.00", 39/6.00", 43/4.50" | | | | 97.2 | |
| | | | | | Tan and Gray Clay (CH) | | | 96.2 | |
| 30 | | | 86 | -J-7 | Light Gray and Tan Sand w/ Scattered Gravel (SP) | | | 92.2 | |
| 35 | | | 61 | -J-8 | Light Gray and Tan Clayey Sand (SC) | | | | |
| 40 | | | 100 | -J-9, 20/6.00", 54/6.00", 26/1.50" | | | | | |
| | | | | | CONTINUED | | | | |

LOG OF BORING
FOR

Sheet 2 of 2

COLETO CREEK POWER STATION

DATE: June 6, 1975

BORING NO. DSS-12

PROJECT LOCATION: Fannin, Texas

TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|--|--------|--------|------------------|---------------------------|---------------------------------------|--------------|----------------|-----------|-------------|
| 45 | | X | 100 | -J-10, 39/6.00", 61/3.00" | Light Gray and Tan Clayey Sand (SC) | | | 79.2 | |
| 50 | | X | 100 | -J-11, 67/6.00", 33/4.50" | Light Gray and Yellow Sandy Clay (CL) | | | 75.8 | |
| Total Depth of Boring = 49.4 Feet | | | | | | | | | |
| <u>Notes:</u> | | | | | | | | | |
| Project No. 4857 | | | | | | | | | |
| Boring Started: June 6, 1975 7:30 am | | | | | | | | | |
| Boring Completed: June 6, 1975 10:15 am | | | | | | | | | |
| Driller: Joe Castleberry | | | | | | | | | |
| <u>Water Observations</u> | | | | | | | | | |
| Drilling fluid was used from the ground surface down and the fluid did not disperse. | | | | | | | | | |
| <u>Grout Record</u> | | | | | | | | | |
| Date: June 6, 1975 | | | | | | | | | |
| W.C. = 1.5/1.0 Cu. Ft. Water/Sack | | | | | | | | | |
| Bentonite = 5.0%/Sack of Cement | | | | | | | | | |
| Volume Mixed = 8.0 Cu. Ft. | | | | | | | | | |
| Volume Used = 8.0 Cu. Ft. | | | | | | | | | |
| Cement 4 Sacks, Bentonite 1/2 Sack | | | | | | | | | |
| Grout Time: 2 Hours | | | | | | | | | |
| <u>Clearing</u> | | | | | | | | | |
| 2.5 Hours | | | | | | | | | |

LOG OF BORING
FOR

Sheet 1 of 2

COLETO CREEK POWER STATION

DATE: June 5, 1975

BORING NO. DSS-13

PROJECT LOCATION: Fannin, Texas

TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|------------------------------------|--|--------------|----------------|-----------|-------------|
| | | | | | Ground Surface Elevation=128.1 Ft. | | | | |
| | | | | | Brown Clayey Sand (SC) | | | 126.1 | |
| 5 | | | 17 | -J-1 | | | | | |
| | | | 25 | -J-2 | Tan Clayey Sand w/Scattered Lignite and Caliche Particles (SC) | | | 121.1 | |
| 10 | | | 21 | -J-3 | Tan and Light Gray Clayey Sand w/ Scattered Lignite and Caliche Particles (SC) | | | 116.1 | |
| 15 | | | 41 | -J-4 | Tan and Light Gray Clayey Sand and White Calcium w/Yellow Streaks and Black Specks (Caliche) | | | | |
| 20 | | | 68 | -J-5 | | | | | |
| 25 | | | 100 | -J-6, 19/6.00", 46/6.00", 35/4.50" | | | | 101.1 | |
| 30 | | | 78 | -J-7 | Light Tan Sand w/Scattered Gravel (SP) | | | 95.1 | |
| 35 | | | 100 | -J-8, 87/6.00", 13/0.50" | | | | | |
| | | | | | Tan and Light Gray Clayey Sand (SC) | | | | |
| 40 | | | 100 | -J-9 | | | | | |
| | | | | | CONTINUED | | | | |

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LOG OF BORING
FOR

Sheet 2 of 2

COLETO CREEK POWER STATION

DATE: June 5, 1975

BORING NO. DSS-13

PROJECT LOCATION: Fannin, Texas

TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|--|--------|--------|------------------|------------|---|--------------|----------------|-----------|-------------|
| | | | | | Tan and Light Gray Clayey Sand (SC) | | | 86.1 | |
| 45 | | | | -S-1 | Light Tan Clayey Sand w/Scattered Sandstone Lenses (SC) | | | | |
| 50 | | | 100 | -J-10 | 85/6.00", 15/0.50" | | | 78.1 | |
| Total Depth of Boring = 50.0 Feet | | | | | | | | | |
| <u>Notes:</u> | | | | | | | | | |
| Project No. 4857 | | | | | | | | | |
| Boring Started: June 5, 1975 9:30 am | | | | | | | | | |
| Boring Completed: June 5, 1975 12:30 pm | | | | | | | | | |
| Driller: Graham Davis | | | | | | | | | |
| <u>Water Observations</u> | | | | | | | | | |
| Drilling fluid was used from the ground surface down and the fluid did not disperse. | | | | | | | | | |
| <u>Grout Record</u> | | | | | | | | | |
| Date: June 5, 1975 | | | | | | | | | |
| W.C. = 1.5/1.0 Cu. Ft. Water/Sack | | | | | | | | | |
| Bentonite = 5.0%/Sack of Cement | | | | | | | | | |
| Volume Mixed = 6.0 Cu. Ft. | | | | | | | | | |
| Volume Used = 6.0 Cu. Ft. | | | | | | | | | |
| Cement 3 Sacks, Bentonite 1/2 Sack | | | | | | | | | |
| Grout Time: 4 Hours | | | | | | | | | |
| <u>Clearing</u> | | | | | | | | | |
| 3.5 Hours | | | | | | | | | |

LOG OF BORING
FOR

Sheet 1 of 2

COLETO CREEK POWER STATION

DATE: June 4, 1975

BORING NO. DSS-14

PROJECT LOCATION: Fannin, Texas

TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|------------------------------------|---|--------------|----------------|-----------|-------------|
| | | | | | Ground Surface Elevation=128.7 Ft. | | | | |
| | | | 20 | -J-1 | Tan Clayey Sand (SC) | | | 125.7 | |
| 5 | | | 21 | -J-2 | Light Gray and Tan Clayey Sand w/ Black Specks and Scattered Caliche Particles (SC) | | | | |
| 10 | | | 32 | -J-3 | | | | 118.7 | |
| | | | 100 | -J-4, 19/6.00", 51/6.00", 30/4.00" | Tan and Light Gray Clayey Sand and White Calcium w/Black Specks (Caliche | | | 112.2 | |
| 15 | | | 18 | -J-5 | Yellowish Tan Sand (SP) | | | 106.7 | |
| 20 | | | 37 | -J-6 | Tan Sand (SP) | | | 101.7 | |
| 25 | | | 49 | -J-7 | Tan Sand w/Scattered Gravel (SP) | | | | |
| 30 | | | 70 | -J-8 | | | | | |
| 35 | | | 56 | -J-9 | | | | | |
| 40 | | | | | CONTINUED | | | | |

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LOG OF BORING
FOR
COLETO CREEK POWER STATION

Sheet 2 of 2

DATE: June 4, 1975

BORING NO. DSS-14

PROJECT LOCATION: Fannin, Texas

TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|---|--------------------------|--------|------------------|-------------------------------------|-------------------------------------|--------------|----------------|-----------|-------------|
| 45 | [Symbol: Diagonal lines] | X | 100 | -J-10, 19/6.00", 45/6.00", 33/3.50" | Tan Sand w/Scattered Gravel (SP) | | | 88.2 | |
| | | | | | Light Gray and Tan Clayey Sand (SC) | | | 86.2 | |
| | | | | | Tan Sand w/Clayey Sand Layers (SP) | | | 83.7 | |
| 50 | [Symbol: Dotted] | X | 100 | -J-11, 100/3.00" | Tan Sand (SP) | | | 79.9 | |
| | | | | | Tan Sandstone | | | 78.7 | |
| <p>Total Depth of Boring = 50.0 Feet</p> <p><u>Notes:</u> Project No. 4857 Boring Started: June 4, 1975 2:30 pm Boring Completed: June 4, 1975 4:30 pm Driller: Graham Davis</p> <p><u>Water Observations</u> Drilling fluid was used from the ground surface down and the fluid did not disperse.</p> <p><u>Grout Record</u> Date: June 4, 1975 W. C. = 1.5/1.0 Cu. Ft. Water/Sack Bentonite = 5.0%/Sack of Cement Volume Mixed = 8.0 Cu. Ft. Volume Used = 8.0 Cu. Ft. Cement 4 Sacks, Bentonite 1/2 Sack Grout Time: 2 Hours</p> <p><u>Clearing</u> 2 Hours</p> | | | | | | | | | |

LOG OF BORING
FOR

Sheet 1 of 3

GOLETO CREEK POWER STATION

DATE: June 3, 1975

BORING NO. DSS-15

PROJECT LOCATION: Fannin, Texas

TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|--------------------------|---|--------------|----------------|-----------|-------------|
| | | | | | Ground Surface Elevation=117.4 Ft. | | | | |
| 5 | 0/0 | X | 20 | -J-1 | Light Gray and Tan Clayey Sand w/White Calcium (Caliche) | | | | |
| | | | | -S-1 | | | | | |
| 10 | 0/0 | X | 45 | -J-2 | | | | | |
| 15 | 0/0 | | | -S-2 | | | | 102.4 | |
| 20 | 0/0 | X | 69 | -J-3 | Light Tan Sand w/Scattered Gravel and Caliche Lenses (SP) | | | | |
| 25 | 0/0 | X | 52 | -J-4 | Tan Sand w/Scattered Gravel Layers (SP) | | | 95.4 | |
| 30 | 0/0 | X | 100 | -J-5, 45/6.00", 55/2.00" | | | | | |
| | | | | | CONTINUED | | | | |

LOG OF BORING
FOR
COLETO CREEK POWER STATION

Sheet 2 of 3

DATE: June 3, 1975

PROJECT LOCATION: Fannin, Texas

TYPE: Core

BORING NO. DSS-15

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|---------------|--------|--------|---------------------|---------------------|---|-----------------|-------------------|-----------|-------------|
| 35 | | X | 49 | +J-6 | Tan Sand w/Scattered Gravel Layers (SP) | | | | |
| 40 | | X | 40 | -J-7 | | | | | |
| 45 | | | 42 | | | | | | |
| 50 | | X | 100 | -J-8, 100/6.00" | Light Gray and Tan Clayey Sand w/Caliche (SC) | | | 70.4 | |
| 55 | | X | 100 | -J-9, 100/1.00" | Light Gray and Yellow Sandstone w/Sand Lenses and Layers | | | 66.4 | |
| 60 | | X | 100 | -33/6.00", 67/3.00" | | | | | |
| CONTINUED | | | | | | | | | |

LOG OF BORING
FOR

Sheet 3 of 3

COLETO CREEK POWER STATION

DATE: June 3, 1975

BORING NO. DSS-15

PROJECT LOCATION: Fannin, Texas

TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|---------------------------|---|--------------|----------------|-----------|-------------|
| 65 | | | 100 | -J-10, 100/3.00" | Light Gray and Yellow Sandstone w/Sand Lenses and Layers | | | 54.9 | |
| | | | | -S-3 | Light Gray and Yellowish Tan Clayey Sand (SC) | | | | |
| 70 | | | 100 | -J-11, 55/6.00", 45/3.00" | | | | 47.5 | |
| | | | | | Total Depth of Boring = 70.0 Feet | | | | |
| | | | | | <p><u>Notes:</u> Project No. 4857 Boring Started: June 2, 1975 7:30 am Boring Completed: June 3, 1975 10:30 am Driller: Joe Castleberry</p> <p><u>Water Observations</u> Drilling fluid was used from the ground surface down and the fluid did not disperse.</p> <p><u>Grout Record</u> Date: June 3, 1975 W.C. = 1.5/1.0 Cu. Ft. Water/Sack Bentonite = 5.0%/Sack of Cement Volume Mixed = 10.0 Cu. Ft. Volume Used = 10.0 Cu. Ft. Cement 5 Sacks, Bentonite 1/2 Sack Grout Time: 2.5 Hours</p> <p><u>Clearing</u> 3 Hours</p> | | | | |

B-75

LOG OF BORING
FOR
COLETO CREEK POWER STATION

Sheet 1 of 4

DATE: June 4, 1975

BORING NO. DSS-16

PROJECT LOCATION: Fannin, Texas

TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | M-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|------------|---|--------------|----------------|-----------|-------------|
| | | | | | Ground Surface Elevation=106.1 Ft. | | | | |
| | | X | 13 | -J-1 | Brown and Tan Clayey Sand w/ Caliche (SC) | | | 103.1 | |
| 5 | | X | 21 | -J-2 | Brown Clayey Sand and White Calcium (Caliche) | | | 98.1 | |
| 10 | | | | -S-1 | Tan Sand w/Caliche Layers (SP) | | | | |
| 15 | | X | 60 | -J-3 | | | | 90.1 | |
| 20 | | X | 55 | -J-4 | Yellow, Tan, and Light Gray Sandy Clay (CL) | | | | |
| 25 | | | | -S-2 | | | | | |
| 30 | | X | 57 | -J-5 | Light Gray Clayey Sand (SC) | | | 78.1 | |
| | | | | | CONTINUED | | | | |

**LOG OF BORING
FOR**

Sheet 2 of 4

COLETO CREEK POWER STATION

DATE: June 4, 1975

BORING NO. DSS-16

PROJECT LOCATION: Fannin, Texas

TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|---------------|--------|--------|---------------------|--------------------------|--|-----------------|-------------------|-----------|-------------|
| | | | | | Light Gray Clayey Sand(SC) | | | 75.1 | |
| 35 | | | 84 | -J-6 | Yellowish Tan and Light Gray Clayey Sand w/Caliche (SC) | | | | |
| 40 | | | 100 | -J-7, 100/4.00" | | | | 65.1 | |
| 45 | | | 100 | -J-8, 80/6.00", 20/1.00" | Light Gray Clayey Sand and White Calcium (Caliche) | | | | |
| 50 | | | 100 | -100/1.00" | | | | | |
| 55 | | | 100 | -J-9, 72/6.00", 28/2.00" | | | | 50.1 | |
| 60 | | | | -S-3 | Tan and Light Gray Sandy Clay (CL) | | | | |
| | | | | | CONTINUED | | | | |

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LOG OF BORING
FOR

Sheet 3 of 4

COLETO CREEK POWER STATION

DATE: June 4, 1975

BORING NO. DSS-16

PROJECT LOCATION: Fannin, Texas

TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|-------------------------------------|---|--------------|----------------|-----------|-------------|
| 65 | | 73 | | -J-10 | Tan and Light Gray Sandy Clay (CL) | | | 40.1 | |
| 70 | | 100 | | -J-11, 31/6.00", 48/6.00", 21/3.00" | Light Gray Clayey Sand (SC) | | | 33.6 | |
| 75 | | 52 | | -J-12 | Tan and Light Gray Sandy Clay w/Black Specks (CL) | | | | |
| 80 | | 53 | | -J-13 | | | | | |
| 85 | | | | -S-4 | | | | | |
| 90 | | 44 | | -J-14 | | | | | |
| | | | | | CONTINUED | | | | |

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LOG OF BORING
FOR
COLETO CREEK POWER STATION

Sheet 4 of 4

DATE: June 4, 1975

BORING NO. DSS-16

PROJECT LOCATION: Fannin, Texas

TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|------------|---|--------------|----------------|-----------|-------------|
| 95 | | | | -S-5 | Tan and Light Gray Sandy Clay w/ Black Specks | | | | |
| 100 | | | 56 | -J-15 | | | | 5.6 | |
| 105 | | | | | <p>Total Depth of Boring = 100.5 Feet</p> <p><u>Notes:</u> Project No. 4857 Boring Started: June 4, 1975 12:30 pm Boring Completed: June 4, 1975 6:00 pm Driller: Joe Castleberry</p> <p><u>Water Observations</u> Drilling fluid was used from the ground surface down and the fluid did not disperse.</p> <p><u>Grout Record</u> Date: June 4, 1975 W.C. = 1.5/1.0 Cu. Ft. Water/Sack Bentonite = 5.0%/Sack of Cement Volume Mixed = 12.0 Cu. Ft. Volume Used = 12.0 Cu. Ft. Cement 6 Sacks, Bentonite 1/2 Sack Grout Time: 2.5 Hours</p> <p><u>Clearing</u> 4 Hours</p> | | | | |

LOG OF BORING
FOR

Sheet 1 of 2

COLETO CREEK POWER STATION

DATE: May 15, 1975

PROJECT LOCATION: Fannin, Texas

TYPE: Core

BORING NO. DSS-17

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|------------|---|--------------|----------------|-----------|-------------|
| | | | | | Ground Surface Elevation=120.9 Ft. | | | | |
| | | 28 | | -J-1 | Tan Silty Sand (SM) | | | 118.5 | |
| 5 | | | | | Tan, Light Tan, and Yellow Clayey Sand (SC) | | | 115.9 | |
| | | 28 | | -J-2 | Tan, Light Tan, and Red Clayey Sand (SC) | | | 113.4 | |
| | | | | | Tan, Light Tan, and Red Sand (SP) | | | 112.7 | |
| 10 | | 50 | | -J-3 | Tan and Light Tan Clayey Sand w/ Scattered Red Streaks (SC) | | | | |
| | | 64 | | | Tan and Light Tan Sand, Coarse-Grained (SP) | | | 105.9 | |
| | | | | | Tan, Brown, and Red Sand and Gravel (SP) | | | 105.3 | |
| | | | | | Tan and Light Tan Sand, Coarse-Grained (SP) | | | 104.9 | |
| 20 | | 64 | | -J-4 | Tan and Light Tan Sand, Coarse-Grained (SP) | | | 101.9 | |
| | | | | -J-5 | Tan and Light Tan Sand and Gravel (SP) | | | | |
| 25 | | 49 | | -J-6 | Tan and Light Tan Clayey Sand w/ Black Specks (SC) | | | 94.9 | |
| 30 | | | | | CONTINUED | | | | |

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LOG OF BORING
FOR

Sheet 2 of 2

COLETO CREEK POWER STATION

DATE: May 15, 1975

BORING NO. DSS-17

PROJECT LOCATION: Fannin, Texas

TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE | | | | | | |
|--|-------------|--------------|------------------|------------|--|--------------|----------------|-----------|-------------|-------------|-------------|--------------|---|--|--|
| 35 | | X | 22 | J-7 | Tan and Light Tan Clayey Sand w/ Black Specks (SC) | | | | | | | | | | |
| | | X | 42 | J-8 | | | | 82.9 | | | | | | | |
| 40 | | X | 100 | J-9 | Tan and Light Tan Sand w/Gravel (SP) | | | 79.9 | | | | | | | |
| Total Depth of Boring = 41.0 Feet | | | | | | | | | | | | | | | |
| <p><u>Notes:</u></p> <p>Project No. 4857 Boring Started: 5-15-75 2:00 p. m. Boring Completed: 5-15-75 6:30 p. m. Driller: Tim Carl</p> <p style="text-align: center;"><u>Water Observations</u></p> <table border="0"> <thead> <tr> <th><u>Date</u></th> <th><u>Time</u></th> <th><u>Depth</u></th> </tr> </thead> <tbody> <tr> <td colspan="3">Drilling fluid was used in advancing the boring from the ground surface down and it did not disperse.</td> </tr> </tbody> </table> <p style="text-align: center;"><u>Grout Record</u></p> <p>Date: 5-16-75 8:30 a. m. to 10:30 a. m. W. C. = 1.5/1.0 Cu. Ft. Water/Sack Bentonite 5.0%/Sack of Cement Volume Mixed = 12.0 Cu. Ft. Volume Used = 12.0 Cu. Ft. Cement 6 Sacks, Bentonite 1/2 Sack Grouting = 2 Hours</p> <p style="text-align: center;"><u>Clearing</u></p> <p>1/2 Hour</p> | | | | | | | | | | <u>Date</u> | <u>Time</u> | <u>Depth</u> | Drilling fluid was used in advancing the boring from the ground surface down and it did not disperse. | | |
| <u>Date</u> | <u>Time</u> | <u>Depth</u> | | | | | | | | | | | | | |
| Drilling fluid was used in advancing the boring from the ground surface down and it did not disperse. | | | | | | | | | | | | | | | |
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LOG OF BORING
FOR

Sheet 1 of 2

COLETO CREEK POWER STATION

DATE: May 16, 1975

PROJECT LOCATION: Fannin, Texas TYPE: Core

BORING NO. DSS-18
LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|------------|--|--------------|----------------|----------------|-------------|
| | | | | | Ground Surface Elevation=117.8 Ft. | | | | |
| | | | | S-1 | Tan Silty Sand (SM) | | | 117.3 | |
| 5 | | | | | Tan, Gray, and Red Sandy Clay (CL) | | | | |
| | | 31 | | J-1 | Tan and Red Clayey Sand (SC) | | | 112.8 111.3 | |
| 10 | | | | | Light Tan Clayey Sand w/Tan Streaks and Black Specks (SC) | | | | |
| | | 37 | | J-2 | | | | | |
| 15 | | | | | Light Tan Sand, Coarse-Grained, w/Gravel and Scattered Clayey Sand Layers (SP) | | | 103.3 | |
| | | 56 | | J-3 | | | | | |
| 20 | | | | | Tan and Light Tan Sand, Coarse-Grained, w/Black Specks (SP) | | | 99.8 | |
| | | 35 | | J-4 | | | | | |
| 25 | | | | | Tan and Light Tan Sand, Coarse-Grained, w/Black Specks and Clayey Sand Layers (SP) | | | 91.5 | |
| | | 49 | | J-5 | | | | | |
| 30 | | | | | Tan and Yellow Clayey Sand and Gravel (SC) | | | 89.8 | |
| | | | | | CONTINUED | | | | |

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LOG OF BORING
FOR

Sheet 2 of 2

COLETO CREEK POWER STATION

DATE: May 16, 1975

PROJECT LOCATION: Fannin, Texas

TYPE: Core

BORING NO. DSS-18

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|---------------|--------|--------|---------------------|---------------|---|-----------------|-------------------|-----------|-------------|
| | | | | 23 | -J-6, J-7 | | | | |
| | | | | | W.S. 5-19-75 | | | 87.0 | |
| | | | | | Tan and Yellow Clayey Sand and Gravel (SC) | | | 86.6 | |
| | | | | | Light Tan and Yellow Clay (CH) | | | 86.3 | |
| 35 | | | | 17 | -J-8 | | | | |
| | | | | | Tan, Light Tan, and Yellow Sand w/Gravel (SP) | | | 79.8 | |
| 40 | | | | 12 | -J-9 | | | | |
| | | | | | Tan and Light Tan Sand w/Black Specks (SP) | | | 76.3 | |
| | | | | | Total Depth of Boring = 41.5 Feet | | | | |
| | | | | | <u>Notes:</u> | | | | |
| | | | | | Project No. 4857 | | | | |
| | | | | | Boring Started: 5-16-75 10:15 a.m. | | | | |
| | | | | | Boring Completed: 5-16-75 5:00 p.m. | | | | |
| | | | | | Driller: Tim Carl | | | | |
| | | | | | <u>Water Observations</u> | | | | |
| | | | | | <u>Date</u> | <u>Time</u> | <u>Depth</u> | | |
| | | | | | 5-19-75 | 8:00 a.m. | 30.8' | | |
| | | | | | Drilling fluid was used in advancing the boring below the 2.5-foot depth. | | | | |
| | | | | | <u>Grout Record</u> | | | | |
| | | | | | Date: 5-19-75 8:45 a.m. to 10:45 a.m. | | | | |
| | | | | | W.C. = 1.5/1.0 Cu. Ft. Water/Sack | | | | |
| | | | | | Bentonite = 5.0%/Sack of Cement | | | | |
| | | | | | Volume Mixed = 12.0 Cu. Ft. | | | | |
| | | | | | Volume Used = 12.0 Cu. Ft. | | | | |
| | | | | | Cement 6 Sacks, Bentonite 1/2 Sack | | | | |
| | | | | | Grouting = 2 Hours | | | | |
| | | | | | <u>Clearing</u> | | | | |
| | | | | | None | | | | |
| 45 | | | | | | | | | |

B-83

LOG OF BORING
FOR

Sheet 1 of 2

COLETO CREEK POWER STATION

DATE: June 5, 1975

BORING NO. DSS-19

PROJECT LOCATION: Fannin, Texas TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N. BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|-------------------|------------|--|--------------|----------------|-----------|-------------|
| | | | | | Ground Surface Elevation=119.6 Ft. | | | | |
| | | | 23 | J-1 | Brown, Tan, and Light Gray Clayey Sand (SC) | | | 116.6 | |
| 5 | | | 21 | J-2 | Light Gray and Tan Clayey Sand w/ Scattered Lignite Particles (SC) | | | | |
| 10 | | | 25 | J-3 | | | | 107.6 | |
| 15 | | | 78 | J-4 | Light Gray Clayey Sand w/Scattered Caliche Nodules (SC) | | | | |
| 20 | | | 100 | J-5 | Tan Clayey Sand w/Scattered Gravel and Caliche Nodules (SC) | | | 102.6 | |
| | | | | | J-5, 34/6.00", 50/6.00", 16/2.00" | | | 98.6 | |
| 25 | | | 52 | J-6 | Tan and Light Tan Sand w/Scattered Gravel (SP) | | | | |
| 30 | | | 16 | J-7 | | | | | |
| | | | | | CONTINUED | | | | |

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LOG OF BORING
FOR

Sheet 2 of 2

COLETO CREEK POWER STATION

DATE: June 5, 1975

BORING NO. DSS-19

PROJECT LOCATION: Fannin, Texas

TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|---|--------|--------|------------------|--|--------------|----------------|-----------|-------------|
| | | | | Tan and Light Tan Sand w/Scattered Gravel (SP) | | | 87.6 | |
| 35 | | X | 74 | -J-8 Tan Sand w/Scattered Clayey Sand Lenses and Gravel (SP) | | | 81.6 | |
| 40 | | | | -S-1 Tan and Light Gray Clayey Sand (SC) | | | 79.6 | |
| <p>Total Depth of Boring = 40.0 Feet</p> <p><u>Notes:</u> Project No. 4857 Boring Started: June 5, 1975 3:00 pm Boring Completed: June 5, 1975 5:00 pm Driller: Graham Davis</p> <p><u>Water Observations</u> Drilling fluid was used in advancing the boring from the ground surface down and the fluid did not disperse.</p> <p><u>Grout Record</u> Date: June 5, 1975 W. C. = 1.5/1.0 Cu. Ft. Water/Sack Bentonite = 5.0%/Sack of Cement Volume Mixed = 6.0 Cu. Ft. Volume Used = 6.0 Cu. Ft. Cement 3 Sack, Bentonite 1/2 Sack Grout Time: 2 Hours</p> <p><u>Clearing</u> 1 Hour</p> | | | | | | | | |

LOG OF BORING
FOR

Sheet 1 of 2

COLETO CREEK POWER STATION

DATE: May 29, 1975

BORING NO. DSS-20

PROJECT LOCATION: Fannin, Texas TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|------------|--|--------------|----------------|-----------|-------------|
| | | | | | Ground Surface Elevation=116.6 Ft. | | | | |
| | | | | | Tan Sand (SP) | | | 115.1 | |
| | | | 15 | -J-1 | Tan and Brown Sandy Clay w/ Black Specks and Red Streaks (CL) | | | 113.6 | |
| 5 | | | | -S-1 | Light Tan Clayey Sand (SC) | | | 109.1 | |
| | | | 24 | -J-2 | Tan Sand w/Scattered Gravel (SP) | | | 105.1 | |
| 10 | | | | | Light Tan Clay (CH) | | | 104.1 | |
| | | | 44 | -J-3 | Light Tan Sand w/Scattered Gravel (SP) | | | 100.6 | |
| 15 | | | | | Light Tan Clay (CH) | | | 99.6 | |
| | | | 28 | -J-4 | Tan Sand, Coarse-Grained, w/ Gravel (SP) | | | | |
| 20 | | | | | | | | | |
| | | | 56 | -J-5 | | | | | |
| 25 | | | | | | | | | |
| | | | 66 | -J-6 | Light Tan Clayey Sand w/Black Specks, Yellow Streaks, and Caliche Nodules (SC) | | | 88.1 | |
| 30 | | | | | | | | 86.6 | |
| | | | | | CONTINUED | | | | |

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LOG OF BORING
FOR

Sheet 2 of 2

COLETO CREEK POWER STATION

DATE: May 29, 1975

BORING NO. DSS-20

PROJECT LOCATION: Fannin, Texas TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE | | | | | | |
|---|--------|--------|------------------|------------|---|--------------|----------------|-----------|-------------|------|------|-------|--|--|--|
| 35 | | | 71 | J-7 | Light Tan Sandy Clay w/Black Streaks, Yellow Streaks, and Caliche Nodules (CL) | | | 83.1 | | | | | | | |
| 40 | | | | S-2 | Light Tan Clayey Sand w/Black Specks, Yellow Streaks, Sand Lenses, and Caliche Nodules (SC) | | | 77.3 | | | | | | | |
| <p>Total Depth of Boring = 39.3 Feet</p> <p><u>Notes:</u></p> <p>Project No. 4857 Boring Started: 5-29-75 1:00 p.m. Boring Completed: 5-29-75 4:00 p.m.</p> <p>Driller: Graham Davis</p> <p><u>Water Observations</u></p> <table border="1"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Depth</th> </tr> </thead> <tbody> <tr> <td colspan="3">Drilling fluid was used from the ground surface down and the fluid did not disperse.</td> </tr> </tbody> </table> <p><u>Grout Record</u></p> <p>Date: 5-29-75 4:00 p.m. to 6:00 p.m.</p> <p>W.C. = 1.5/1.0 Cu. Ft. Water/Sack Bentonite = 5.0%/Sack of Cement Volume Mixed = 8.0 Cu. Ft. Volume Used = 8.0 Cu. Ft. Cement 4 Sacks, Bentonite 1/2 Sack Grouting = 2 Hours</p> <p><u>Clearing</u></p> <p>1/2 Hour</p> | | | | | | | | | | Date | Time | Depth | Drilling fluid was used from the ground surface down and the fluid did not disperse. | | |
| Date | Time | Depth | | | | | | | | | | | | | |
| Drilling fluid was used from the ground surface down and the fluid did not disperse. | | | | | | | | | | | | | | | |

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**LOG OF BORING
FOR
COLETO CREEK POWER STATION**

Sheet 1 of 2

DATE: May 30, 1975

BORING NO. DSS-21

PROJECT LOCATION: Fannin, Texas TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|------------------------------------|---|--------------|----------------|-----------|-------------|
| | | | | | Ground Surface Elevation=118.3 Ft. | | | | |
| | | | | | Brown Sand (SP) | | | 116.3 | |
| | | | 12 | -J-1 | Brown Clayey Sand w/Red Streaks (SC) | | | 114.3 | |
| 5 | | | | -S-1 | Light Tan Sandy Clay w/Yellow Streaks (CL) | | | 112.3 | |
| | | | | | Tan Sand (SP) | | | 111.3 | |
| 10 | | | 30 | -J-2 | Light Tan Clayey Sand w/Black Specks and Caliche Nodules (SC) | | | 107.3 | |
| | | | | | Tan Sand w/Black Specks and Scattered Caliche Nodules (SP) | | | | |
| 15 | | | 14 | -J-3 | | | | | |
| | | | | | | | | 99.3 | |
| 20 | | | 100 | -J-4, 23/6.00", 63/6.00", 14/0.50" | Tan Sand, Coarse-Grained, w/Gravel and Caliche Gravel (SP) | | | 97.3 | |
| | | | | | | | | | |
| 25 | | | 100 | -J-5, 45/6.00", 55/3.00" | Light Tan Sand w/Scattered Gravel (SP) | | | | |
| | | | | | | | | 89.3 | |
| 30 | | | 100 | -J-6, 100/6.00" | Light Tan Sand, Coarse-Grained, w/Scattered Gravel (SP) | | | | |
| | | | | | CONTINUED | | | | |

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LOG OF BORING
FOR

Sheet 2 of 2

COLETO CREEK POWER STATION

DATE: May 30, 1975

PROJECT LOCATION: Fannin, Texas

TYPE: Core

BORING NO. DSS-21

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|------------|--|--------------|----------------|--------------|-------------|
| | | | | | Light Tan Sand, Coarse-Grained, w/Scattered Gravel (SP) | | | 86.3 | |
| 35 | | | | S-2 | Light Tan Clayey Sand (SC) | | | | |
| 40 | | | 79 | J-7 | Light Tan Sand w/Gravel (SP) | | | 79.3 77.8 | |
| 45 | | | | | Total Depth of Boring = 40.5 Feet | | | | |
| | | | | | <u>Notes:</u> Project No. 4857 Boring Started: 5-30-75 8:00 a.m. Boring Completed: 5-30-75 10:00 a.m. Driller: Joe Castleberry | | | | |
| | | | | | <u>Water Observations</u> | | | | |
| | | | | | <u>Date</u> <u>Time</u> <u>Depth</u> | | | | |
| | | | | | Drilling fluid was used from the ground surface down and the fluid did not disperse. | | | | |
| | | | | | <u>Grout Record</u> | | | | |
| | | | | | Date: 5-30-75 10:00 a.m. to 12:00 noon | | | | |
| | | | | | W. C. = 1.5/1.0 Cu. Ft. Water/Sack | | | | |
| | | | | | Bentonite = 5.0%/Sack of Cement | | | | |
| | | | | | Volume Mixed = 6.0 Cu. Ft. | | | | |
| | | | | | Volume Used = 6.0 Cu. Ft. | | | | |
| | | | | | Cement 3 Sacks, Bentonite 1/2 Sack | | | | |
| | | | | | Grouting = 2 Hours | | | | |
| | | | | | <u>Clearing</u> | | | | |
| | | | | | None | | | | |

B-89

LOG OF BORING
FOR
COLETO CREEK POWER STATION

Sheet 1 of 2

DATE: June 2, 1975

PROJECT LOCATION: Fannin, Texas

TYPE: Core

BORING NO. DSS-22

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Pocket Pen. T/sf | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|--------------------------|--|--------------|----------------|-----------|-------------|
| | | | | | Ground Surface Elevation=115.3 Ft. | | | | |
| 5 | | | 9 | -J-1 | Light Gray, Tan, and Red Clayey Sand (SC) | | | 108.8 | |
| | | | | -S-1 | | | | 107.1 | |
| | | | | | Light Gray Sand (SP) | | | 105.3 | |
| 10 | | | 58 | -J-2 | Light Gray Clayey Sand and White Calcium (Caliche) | | | 101.3 | |
| | | | | | Tan Sand (SP) | | | | |
| 15 | | | 100 | -J-3, 32/6.00", 68/5.00" | | | | | |
| | | | | J-4 | Tan Clayey Sand and White Calcium (Caliche) | | | | |
| 20 | | | 100 | -J-5 J-6 | | | | 93.5 | |
| 25 | | | 100 | -J-7, 100/5.00" | | | | | |
| | | | | | Tan Sand and Gravel (SP) | | | | |
| 30 | | | 73 | -J-8 | | | | | |
| | | | | | CONTINUED | | | | |

LOG OF BORING
FOR
COLETO CREEK POWER STATION

Sheet 2 of 2

DATE: June 2, 1975

BORING NO. DSS-22

PROJECT LOCATION: Fannin, Texas

TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Pocket Pen. T/sf | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|--|--------|--------|------------------|------------------|-------------------------------------|--------------|----------------|-----------|-------------|
| 35 | | X | 70 | -J-9 | Tan Sand and Gravel (SP) | | | 78.3 | |
| 40 | | X | 100 | -J-10, 100/3.50" | Light Gray and Tan Clayey Sand (SC) | | | 76.5 | |
| <p>Total Depth of Boring = 38.8 Feet</p> <p><u>Notes:</u> Project No. 4857 Boring Started: June 2, 1975 10:45 am Boring Completed: June 2, 1975 1:30 pm Driller: Graham Davis</p> <p><u>Water Observations</u> Drilling fluid was used from the ground surface down and the fluid did not disperse.</p> <p><u>Grout Record</u> Date: June 2, 1975 W.C. = 1.5/1.0 Cu. Ft. Water/Sack Bentonite = 5.0%/Sack of Cement Volume Mixed = 8.0 Cu. Ft. Volume Used = 8.0 Cu. Ft. Cement 4 Sacks, Bentonite 1/2 Sack Grout Time: 2 Hours</p> <p><u>Clearing</u> None</p> | | | | | | | | | |

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LOG OF BORING
FOR

Sheet 1 of 2

COLETO CREEK POWER STATION

DATE: June 26, 1975

BORING NO. DSS-23

PROJECT LOCATION: Fannin, Texas

TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|------------|---|--------------|----------------|-----------|-------------|
| | | | | | Ground Surface Elevation=129.0 Ft. | | | | |
| | | | | | Tan Silty Sand (SM) | | | 128.0 | |
| 5 | | X | 19 | J-1 | Brown, Tan, and Light Gray Clayey Sand w/Red Streaks (SC) | | | | |
| 10 | | X | 25 | J-2 | | | | | |
| 15 | | X | 25 | J-3 | | | | | |
| 20 | | X | 23 | J-4 | Light Gray and Tan Clay w/Black Specks (CH) | | | 110.5 | |
| 25 | | X | 29 | J-5 | Tan Sand (SP) | | | 107.0 | |
| 30 | | X | 44 | J-6 | | | | | |
| 35 | | X | 94 | J-7 | 8" of Tan and Yellow Sandstone at 35.0' | | | | |
| 40 | | X | 48 | J-8 | Tan and Light Gray Clay w/ Caliche (CH) | | | 89.5 | |
| CONTINUED | | | | | | | | | |

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LOG OF BORING
FOR

Sheet 2 of 2

COLETO CREEK POWER STATION



DATE: June 26, 1975

BORING NO. DSS-23

PROJECT LOCATION: Fannin, Texas

TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|--|---|--------|------------------|------------------------------------|--|--------------|----------------|-----------|-------------|
| 45 |  | X | 45 | J-9 | Tan and Light Gray Clay w/ Caliche (CH) | | | | |
| 50 |  | X | 100 | J-10, 30/6.00", 50/6.00", 20/3.00" | | | | 79.2 | |
| <p>Total Depth of Boring = 49.8 Feet</p> <p><u>Notes:</u> Project No. 4857 Boring Started: June 26, 1975 10:00 am Boring Completed: June 26, 1975 4:50 pm Driller: Jenkins Bishop</p> <p><u>Water Observations</u> Drilling fluid was bailed to the 28.0-foot depth. The hole was open to the 39.0-foot depth and the water surface was at 34.6 feet on June 27, 1975.</p> <p><u>Grout Record</u> Date: June 27, 1975 W. C. = 1.5/1.0 Cu. Ft. Water/Sack Bentonite = 5.0%/Sack of Cement Volume Mixed = 14.0 Cu. Ft. Volume Used = 14.0 Cu. Ft. Cement 7 Sacks, Bentonite 1/2 Sack Grout Time: 2 Hours</p> <p><u>Clearing</u> 4 Hours</p> <p><u>Permeability Tests</u> 24.0'-25.5' Test Time: 5 Hours</p> | | | | | | | | | |

LOG OF BORING
FOR
COLETO CREEK POWER STATION

Sheet 1 of 2

DATE: June 24, 1975

PROJECT LOCATION: Fannin, Texas TYPE: Core

BORING NO. DSS-24
LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | M-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|------------|--|--------------|----------------|----------------|-------------|
| | | | | | Ground Surface Elevation=128.6 Ft. | | | | |
| | | | | | Tan Silty Sand (SM) | | | 127.6 | |
| 5 | | 10 | | J-1 | Light Gray and Tan Clayey Sand w/ Scattered Lignite and Calcium Particles (SC) | | | | |
| 10 | | 17 | | J-2 | | | | | |
| 15 | | 35 | | J-3 | Tan Sand w/Clayey Sand Lenses (SP) | | | 116.6 | |
| 20 | | 35 | | J-4 | | | | | |
| 25 | | 46 | | J-5 | Tan Sandstone Tan Clayey Sand (SC) | | | 106.2 104.6 | |
| 30 | | 100 | | J-6 | Tan Sandstone Tan Clayey Sand w/Scattered Gravel and Caliche Lenses (SC) | | | 101.6 100.6 | |
| 35 | | 100 | | J-7 | | | | | |
| 40 | | 104 | | J-8 | Light Gray and Tan Clayey Sand w/ Caliche Particles and Layers (SC) | | | 92.1 | |
| | | | | | CONTINUED | | | | |

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LOG OF BORING
FOR

Sheet 2 of 2

COLETO CREEK POWER STATION

DATE: June 24, 1975

BORING NO. DSS-24

PROJECT LOCATION: Fannin, Texas

TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|--|--------|--------|------------------|---------------------------|---|--------------|----------------|-----------|-------------|
| 45 | | X | 100 | -J-9, 57/6.00", 43/3.00" | Light Gray and Tan Clayey Sand w/ Caliche Particles and Layers (SC) | | | | |
| 50 | | X | 100 | -J-10, 56/6.00", 44/1.00" | | | | 79.5 | |
| <p>Total Depth of Boring = 49.1 Feet</p> <p><u>Notes:</u> Project No. 4857 Boring Started: June 24, 1975 2:30 pm Boring Completed: June 24, 1975 5:30 pm Driller: Jenkins Bishop</p> <p><u>Water Observations</u> Drilling fluid was bailed to the 40.0-foot depth. The hole was open to 26.0 feet and the water surface was at the 21.8-foot depth on June 26 and 27, 1975.</p> <p><u>Grout Record</u> Date: June 27, 1975 W. C. = 1.5/1.0 Cu. Ft. Water/Sack Bentonite = 5.0%/Sack of Cement Volume Mixed = 6.0 Cu. Ft. Volume Used = 6.0 Cu. Ft. Cement 3 Sacks, Bentonite 1/2 Sack Grout Time: 2 Hours</p> <p><u>Clearing</u> 2 Hours</p> | | | | | | | | | |

LOG OF BORING
FOR

Sheet 1 of 2

COLETO CREEK POWER STATION

DATE: June 25, 1975

PROJECT LOCATION: Fannin, Texas

TYPE: Core

BORING NO. DSS-25

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|------------|--|--------------|----------------|-----------|-------------|
| | | | | | Ground Surface Elevation=138.6 Ft. | | | | |
| | | | | | Tan Silty Sand (SM) | | | 137.6 | |
| 5 | | X | 68 | -J-1 | Tan and Gray Clayey Sand w/Red and Yellow Streaks (SC) | | | | |
| 10 | | X | 31 | -J-2 | | | | | |
| 15 | | X | 30 | -J-3 | | | | | |
| 20 | | X | 19 | -J-4 | Light Gray and Tan Clayey Sand w/ Scattered Small Lignite Particles (SC) | | | 121.6 | |
| 25 | | X | 55 | -J-5 | Light Gray and Tan Sand w/ Scattered Gravel (SP) | | | 115.6 | |
| 30 | | X | 52 | -J-6 | | | | | |
| 35 | | X | 17 | -J-7 | | | | | |
| 40 | | X | 19 | -J-8 | | | | | |
| | | | | | CONTINUED | | | | |

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LOG OF BORING
FOR

Sheet 2 of 2

COLETO CREEK POWER STATION

DATE: June 25, 1975

BORING NO. DSS-25

PROJECT LOCATION: Fannin, Texas

TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|------------|---|--------------|----------------|-----------|-------------|
| | | | | | Light Gray and Tan Sand w/ Scattered Gravel (SP) | | | 96.6 | |
| 45 | | X | 26 | -J-9 | Tan Sand w/Clayey Sand Layers (SP) | | | | |
| | | | | | - 6" Clay Layer at 47.0' | | | 91.1 | |
| 50 | | X | 100 | -J-10 | Light Gray and Tan Silty Sand w/ Caliche Layers (SM) | | | 88.5 | |
| | | | | | Total Depth of Boring = 50.1 Feet | | | | |
| | | | | | <u>Notes:</u> Project No. 4857 Boring Started: June 25, 1975 12:30 pm Boring Completed: June 26, 1975 9:30 am Driller: Jenkins Bishop | | | | |
| | | | | | <u>Water Observations</u> Drilling fluid was used from the ground surface down. The hole was open to 40.0 feet and was dry on June 27, 1975. | | | | |
| | | | | | <u>Grout Record</u> Date: June 27, 1975 W. C. = 1.5/1.0 Cu. Ft. Water/Sack Bentonite = 5.0%/Sack of Cement Volume Mixed = 14.0 Cu. Ft. Volume Used = 14.0 Cu. Ft. Cement 7 Sacks, Bentonite 1/2 Sack Grout Time: 2 Hours | | | | |
| | | | | | <u>Clearing</u> 2.5 Hours | | | | |
| | | | | | <u>Permeability Tests</u> 29.0'-30.5' Test Time: 6.75 Hours Lost 28' of Casing in Hole. | | | | |
| | | | | | B-97 | | | | |

LOG OF BORING
FOR

Sheet 1 of 2

COLETO CREEK POWER STATION

DATE: June 24, 1975

BORING NO. DSS-26

PROJECT LOCATION: Fannin, Texas

TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|-------------------------|--|--------------|----------------|-----------|-------------|
| | | | | | Ground Surface Elevation=123.1 Ft. | | | | |
| | | | | | Tan Silty Sand (SM) | | | 122.1 | |
| 5 | | X | 15 | J-1 | Brown, Tan, and Light Gray Sandy Clay (CL) | | | | |
| 10 | | X | 35 | J-2 | Light Gray Clayey Sand and White Calcium (Caliche) | | | 115.1 | |
| 15 | | X | 75 | J-3 | | | | | |
| 20 | | X | 42 | J-4 | Tan and Brown Sand (SP) | | | 104.8 | |
| 25 | | X | 100 | -100/0.00" | Tan Sandstone | | | 99.8 | |
| | | X | 60 | J-5 | Tan and Yellow Sand w/Scattered Gravel (SP) | | | 98.8 | |
| | | | | | Tan Sandstone | | | 96.1 | |
| | | | | | | | | 95.6 | |
| 30 | | X | 100 | J-6, 45/6.00", 55/4.00" | Tan Sand w/Clayey Sand Lenses (SP) | | | 89.6 | |
| 35 | | X | 18 | J-7 | Light Gray Clayey Sand (SC) | | | 84.6 | |
| 40 | | X | 100 | | Tan Sandstone | | | 84.1 | |
| | | | | | Light Tan Sand w/Sandstone Lenses (SP) | | | | |
| | | | | J-8, 30/6.00", 70/3.00" | | | | | |
| CONTINUED | | | | | | | | | |

B-98

LOG OF BORING
FOR

Sheet 2 of 2

COLETO CREEK POWER STATION

DATE: June 24, 1975

BORING NO. DSS-26

PROJECT LOCATION: Fannin, Texas

TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|--------------------------|--|--------------|----------------|-----------|-------------|
| | | | | | Light Tan Sand w/Sandstone Lenses (SP) | | | 81.1 | |
| 45 | | | 100 | -J-9, 57/6.00", 43/3.00" | Yellowish Tan and Light Gray Clayey Sand (SC) | | | 76.1 | |
| 50 | | | 47 | -J-10 | Light Gray Clayey Sand and White Calcium (Caliche) | | | 73.1 | |
| | | | | | Total Depth of Boring = 50.0 Feet | | | | |
| | | | | | <p><u>Notes:</u> Project No. 4857 Boring Started: June 24, 1975 9:45 am Boring Completed: June 24, 1975 12:45 pm Driller: Jenkins Bishop</p> | | | | |
| | | | | | <p><u>Water Observations</u> Drilling fluid was bailed to the 35.0-foot depth. The hole was open to the 32.3-foot depth and the water surface was at the 32.2-foot depth on June 25 and June 26, 1975.</p> | | | | |
| | | | | | <p><u>Grout Record</u> Date: June 27, 1975 W. C. = 1.5/1.0 Cu. Ft. Water/Sack Bentonite = 5.0%/Sack of Cement Volume Mixed = 6.0 Cu. Ft. Volume Used = 6.0 Cu. Ft. Cement 3 Sacks, Bentonite 1/2 Sack Grout Time: 2 Hours</p> | | | | |
| | | | | | <p><u>Clearing</u> 1/2 Hour</p> | | | | |
| | | | | | <p><u>Stand-By</u> 5 Hours on June 23, 1975 for Right-of-Entry Clearance. 1.5 Hours on June 24, 1975 for Surveyed Location of Boring.</p> | | | | |
| | | | | | B-99 | | | | |

LOG OF BORING
FOR

COLETO CREEK POWER STATION

DATE: June 25, 1975

BORING NO. DSS-27

PROJECT LOCATION: Fannin, Texas

TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|-------------------------------------|---|--------------|----------------|-----------|-------------|
| | | | | | Ground Surface Elevation=123.5 Ft. | | | | |
| | | | | | Tan Silty Sand | | | 122.5 | |
| 5 | | X | 13 | - J-1 | Brown, Tan, and Light Gray Clayey Sand w/Scattered Red Streaks and Lignite Particles (SC) | | | 115.5 | |
| 10 | | X | 100 | - J-2, 55/6.00", 45/5.00" | Light Tan Clayey Sand and White Calcium (Caliche) | | | 110.5 | |
| 15 | | X | 14 | - J-3 | Tan Sand w/Scattered Clayey Sand Lenses (SP) | | | | |
| 20 | | X | 63 | - J-4 | | | | | |
| 25 | | X | 100 | - J-5, 26/6.00", 50/6.00", 24/2.00" | Light Tan and Gray Sand w/ Sandstone and Caliche Lenses (SP) | | | 100.5 | |
| 30 | | X | 100 | - J-6, 21/6.00", 55/6.00", 29/3.00" | | | | | |
| | | | | | Hard Rock Layer at 30.0' | | | | |
| | | | | | Tan Clay | | | 91.5 | |
| | | | | | | | | 90.5 | |
| 35 | | X | 100 | - J-7, 35/6.00", 50/6.00", 15/4.00" | Tan Sand and Gravel (SP) | | | | |
| 40 | | X | 53 | - J-8 | Tan, Light Gray, and Yellow Clayey Sand (SC) | | | 84.5 | |
| | | | | | CONTINUED | | | | |

B-100

LOG OF BORING
FOR

Sheet 2 of 2

COLETO CREEK POWER STATION

DATE: June 25, 1975

BORING NO. DSS-27

PROJECT LOCATION: Fannin, Texas TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|--|--------|--------|------------------|------------|--|--------------|----------------|-----------|-------------|
| | | | | | Tan, Light Gray, and Yellow Clayey Sand (SC) | | | 82.5 | |
| | | | | | Tan Sand and Gravel (SP) | | | 80.5 | |
| 45 | | | | 100 | -J-9, 100/6.00" | | | | |
| | | | | | Tan and Light Gray Silty Sand w/ Caliche Lenses (SM) | | | | |
| 50 | | | | 100 | -J-10, 40/6.00", 60/4.00" | | | 74.2 | |
| Total Depth of Boring = 49.3 Feet | | | | | | | | | |
| <p><u>Notes:</u> Project No. 4857 Boring Started: June 25, 1975 9:30 am Boring Completed: June 25, 1975 11:30 am Driller: Jenkins Bishop</p> | | | | | | | | | |
| <p><u>Water Observations</u> Drilling fluid was bailed to the 30.0-foot depth. The hole was open to 40.0 feet and the water surface was at 32.5 feet on June 26, 1975.</p> | | | | | | | | | |
| <p><u>Grout Record</u> Date: June 27, 1975 W. C. = 1.5/1.0 Cu. Ft. Water/Sack Bentonite = 5.0%/Sack of Cement Volume Mixed = 6.0 Cu. Ft. Volume Used = 6.0 Cu. Ft. Cement 3 Sacks, Bentonite 1/2 Sack Grout Time: 2 Hours</p> | | | | | | | | | |
| <p><u>Clearing</u> 1 Hour</p> | | | | | | | | | |
| B-101 | | | | | | | | | |

LOG OF BORING
FOR

Sheet 1 of 2

COLETO CREEK POWER STATION

DATE: June 26, 1975

PROJECT LOCATION: Fannin, Texas

TYPE: Core

BORING NO. DSS-28

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|------------|---|--------------|----------------|-----------|-------------|
| | | | | | Ground Surface Elevation=115.9 Ft. | | | | |
| | | | | | Tan Silty Sand (SM) | | | 114.9 | |
| 5 | | X | 12 | -J-1 | Brown, Tan, and Gray Clayey Sand (SC) | | | | |
| 10 | | X | 13 | -J-2 | Tan Clayey Sand and White Calcium (Caliche) | | | 108.9 | |
| | | | | | Tan and Gray Sand (SP) | | | 104.9 | |
| 15 | | X | 41 | -J-3 | Tan and Gray Clayey Sand and Caliche (SC) | | | 102.4 | |
| 20 | | X | 45 | -J-4 | Tan and Gray Sandy Clay w/ Caliche (CL) | | | 95.4 | |
| 25 | | X | 37 | -J-5 | Tan and Gray Clayey Sand (SC) | | | 88.9 | |
| 30 | | X | 40 | -J-6 | Tan and Gray Sand and Gravel w/ Clayey Sand Layers (SP) | | | 85.9 | |
| 35 | | X | 16 | -J-7 | Tan and Gray Sandy Clay w/ Caliche Layers (CL) | | | 76.1 | |
| 40 | | X | 52 | -J-8 | | | | | |
| | | | | | CONTINUED | | | | |

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**LOG OF BORING
FOR
COLETO CREEK POWER STATION**

Sheet 2 of 2

DATE: June 26, 1975

BORING NO. DSS-28

PROJECT LOCATION: Fannin, Texas

TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|---|-----------|--------|------------------|------------|--|--------------|----------------|-----------|-------------|
| 45 | [Hatched] | [X] | 100 | | Tan and Gray Sandy Clay w/Caliche Layers (CL) | | | 71.4 | [Scale] |
| | | | | | - Light Tan Sandstone at 43.5'-44.5' | | | | |
| | | | | | - J-9, 50/6.00", 50/3.00" | | | | |
| 50 | [Hatched] | [X] | 100 | | Tan and Gray Sandy Clay w/Caliche and Calcium Pockets (CL) | | | 67.2 | [Scale] |
| | | | | | - J-10, 100/2.00" | | | | |
| <p>Total Depth of Boring = 48.7 Feet</p> <p><u>Notes:</u> Project No. 4857 Boring Started: June 26, 1975 5:30 pm Boring Completed: June 26, 1975 7:30 pm Driller: Jenkins Bishop</p> <p align="center"><u>Water Observations</u> Drilling fluid was used from the ground surface down and the fluid did not disperse.</p> <p align="center"><u>Grout Record</u> Date: June 26, 1975 W.C. = 1.5/1.0 Cu. Ft. Water/Sack Bentonite = 5.0%/Sack of Cement Volume Mixed = 6.0 Cu. Ft. Volume Used = 6.0 Cu. Ft. Cement 3 Sacks, Bentonite 1/2 Sack Grout Time: 2 Hours</p> <p align="center"><u>Clearing</u> 1 Hour</p> | | | | | | | | | |

B-103

LOG OF BORING
FOR
COLETO CREEK POWER STATION

DATE: June 11, 1975

PROJECT LOCATION: Fannin, Texas

TYPE: Auger

BORING NO. DA-1

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | M-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|------------|--|--------------|----------------|-----------|-------------|
| | | | | | Ground Surface Elevation=130.4 Ft. | | | | |
| | | | | -J-1 | Brown Silty Sand (SM) | | | 128.9 | |
| | | | | -J-2 | Tan and Light Gray Clayey Sand w/ Red Streaks (SC) | | | 127.4 | |
| 5 | | | | -J-3 | Tan Clayey Sand w/Black Specks and Scattered Caliche Particles (SC) | | | 123.4 | |
| | | | | -J-4 | Light Gray Clay and White Calcium (Caliche) | | | | |
| 10 | | | | -J-5 | | | | | |
| | | | | -J-6 | Tan Silty Sand w/Scattered Yellow Streaks (SM) | | | 115.9 | |
| 15 | | | | -J-7 | | | | | |
| | | | | -J-8 | Light Tan Sand (SP) | | | 111.4 | |
| 20 | | | | -J-9 | | | | 109.9 | |
| | | | | -J-10 | Reddish Tan and Light Tan Sand w/Scattered Gravel (SP) | | | 109.4 | |
| 25 | | | | -J-11 | | | | 105.4 | |
| | | | | -J-12 | Reddish Tan Sand, Coarse-Grained, w/Scattered Gravel (SP) | | | 102.4 | |
| 30 | | | | | | | | 100.4 | |
| | | | | | Light Tan Sand w/Scattered Gravel and Caliche (SP) | | | | |
| | | | | | Total Depth of Boring = 30.0 Feet | | | | |
| | | | | | Notes: | | | | |
| | | | | | Project No. 4857 | | | | |
| | | | | | Boring Started: June 11, 1975 10:00 am | | | | |
| | | | | | Boring Completed: June 11, 1975 11:00 am | | | | |
| | | | | | Driller: George Whitehead | | | | |
| | | | | | <u>Water Observations</u> | | | | |
| | | | | | Boring was advanced without fluid and groundwater was not encountered. | | | | |
| | | | | | <u>Grout Record</u> | | | | |
| | | | | | Date: June 17, 1975 | | | | |
| | | | | | Volume Mixed = 25.0 Cu. Ft. Concrete | | | | |
| | | | | | Volume Used = 25.0 Cu. Ft. Concrete | | | | |
| | | | | | Grout Time: 1 Hour | | | | |
| | | | | | Clearing Time: 1/2 Hour | | | | |

**LOG OF BORING
FOR
COLETO CREEK POWER STATION**

DATE: June 9, 1975

PROJECT LOCATION: Fannin, Texas

TYPE: Auger

BORING NO. DA-2

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|------------|---|--------------|----------------|-----------|-------------|
| | | | | | Ground Surface Elevation = 123.4 Ft. | | | | |
| | | | | -J-1 | Brown Clayey Sand w/Red Streaks (SC) | | | | |
| | | | | -J-2 | | | | 119.9 | |
| 5 | | | | -J-3 | Light Gray and Tan Clayey Sand (SC) | | | | |
| | | | | -J-4 | | | | | |
| | | | | -J-5 | | | | | |
| 10 | | | | -J-6 | | | | 113.4 | |
| | | | | -J-7 | Light Tan Silty Sand w/Scattered Gravel (SM) | | | | |
| | | | | -J-8 | | | | | |
| 15 | | | | -J-9 | | | | | |
| | | | | -J-10 | Yellowish Tan Sand w/Scattered Gravel (SP) | | | 104.4 | |
| 20 | | | | -J-11 | | | | 101.9 | |
| | | | | -J-12 | Light Gray and Tan Sandy Clay (CL) | | | | |
| 25 | | | | | | | | 94.9 | |
| 30 | | | | -J-13 | Yellowish Tan Clayey Sand (SC) | | | 93.4 | |
| | | | | | Total Depth of Boring = 30.0 Feet <u>Notes:</u> Project No. 4857 Boring Started: June 9, 1975 5:30 pm Boring Completed: June 10, 1975 10:00 am Driller: Joe Castleberry <u>Water Observations</u> Boring was advanced without fluid and groundwater was not encountered. <u>Grout Record</u> Date: June 10, 1975 10:00 am-12:00 noon Volume Mixed = 6.0 Cu. Ft. Volume Used = 6.0 Cu. Ft. Cement 3 Sacks, Bentonite 1/2 Sack Grout Time: 1 Hour Clearing Time: 1 Hour | | | | |

LOG OF BORING
FOR
COLETO CREEK POWER STATION

Sheet 1 of 2

DATE: June 19, 1975

BORING NO. DA-3

PROJECT LOCATION: Fannin, Texas

TYPE: Split-Spoon w/

LOCATION: Sec Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | PERMEABILITY TESTS | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|---------------|--------|--------|---------------------|-----------------------------------|---|--------------------|-----------------|-------------------|-----------|-------------|
| | | | | | | | | | | |
| | | | | | Ground Surface Elevation=127.6 Ft. | | | | | |
| 5 | | 36 | | J-1 | Reddish Tan, Brown, and Light Gray Clayey Sand w/Scattered Lignite Particles and Caliche Nodules (SC) | | | | | |
| | | 40 | | J-2 | | | | | 121.1 | |
| 10 | | 100 | | J-3, 26/6.00", 74/6.00" | Light Gray Clayey Sand and White Calcium w/Scattered Gravel (Caliche) | | | | | |
| 15 | | 100 | | J-4, 14/6.00", 34/6.00", 52/3.00" | | | | | | |
| 20 | | 100 | | J-5, 22/6.00", 30/6.00", 44/5.00" | Light Gray and Tan Sand w/ Caliche Lenses (SP) | | | | 107.6 | |
| 25 | | 100 | | J-6, 5/6.00", 55/6.00", 40/3.00" | | | | | | |
| | | | | | Tan Sandstone | | | | 100.1 | |
| 30 | | 100 | | -100/1.00" | Light Gray Clayey Sand (SC) | | | | 97.6 | |
| | | | | | Light Gray Clay w/Tan Streaks and Calcium Nodules (CH) | | | | 96.1 | |
| 35 | | 34 | | J-7 | | | | | | |
| | | | | | Light Gray and Tan Sand (SP) | | | | 90.1 | |
| 40 | | 66 | | J-8 | | | | | 87.6 | |
| | | | | | CONTINUED | | | | | |

B-106

LOG OF BORING
FOR

Sheet 2 of 2

COLETO CREEK POWER STATION

DATE: June 19, 1975

BORING NO. DA-3

PROJECT LOCATION: Fannin, Texas

TYPE: Split-Spoon

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE | | | | | | |
|---------------|---------------|--------|------------------|------------|--|---------------|----------------|-----------|-------------|-----------|--|--|--|--|--|
| 45 | | X | 74 | -J-9 | Light Gray Clay w/Tan Streaks and Calcium Nodules (CH) | | | 81.1 | | | | | | | |
| 50 | | X | 21 | -J-10 | Tan Sand w/Scattered Clay and Gravel Lenses (SP) | | | 77.1 | | | | | | | |
| 55 | | | | | <p>Total Depth of Boring = 50.5 Feet</p> <p><u>Notes:</u> Project No. 4857 Boring Started: June 19, 1975 11:00 am Boring Completed: June 19, 1975 5:00 pm Driller: Joe Castleberry</p> <p><u>Water Observations</u> Drilling fluid was used in advancing the boring from the ground surface down and the fluid did not disperse.</p> <p><u>Grout Record</u> Date: June 19, 1975 5:00 - 7:00 pm W.C. = 1.5/1.0 Cu. Ft. Water/Sack Bentonite = 5.0%/Sack of Cement Volume Mixed = 14.0 Cu. Ft. Volume Used = 14.0 Cu. Ft. Cement 7 Sacks, Bentonite 1/2 Sack Grouting: 2 Hours</p> <p><u>Clearing</u> None</p> <p><u>Permeability Tests</u></p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td><u>Depths</u></td> <td><u>Depths</u></td> </tr> <tr> <td>24.5-26.0</td> <td>35.5-37.0</td> </tr> <tr> <td>30.0-31.5</td> <td></td> </tr> </table> <p>Testing Time: 6 Hours</p> | <u>Depths</u> | <u>Depths</u> | 24.5-26.0 | 35.5-37.0 | 30.0-31.5 | | | | | |
| <u>Depths</u> | <u>Depths</u> | | | | | | | | | | | | | | |
| 24.5-26.0 | 35.5-37.0 | | | | | | | | | | | | | | |
| 30.0-31.5 | | | | | | | | | | | | | | | |
| | | | | | B-107 | | | | | | | | | | |

**LOG OF BORING
FOR
COLETO CREEK POWER STATION**

DATE: June 18, 1975

BORING NO. DA-4

PROJECT LOCATION: Fannin, Texas

TYPE: Auger

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|---|--------|--------|------------------|------------|--|--------------|----------------|-----------|-------------|
| | | | | | Ground Surface Elevation=124.3 Ft. | | | | |
| | | | | -J-1 | Tan Clayey Sand (SC) | | | 123.3 | |
| | | | | -J-2 | Brown Clayey Sand (SC) | | | 123.1 | |
| | | | | -J-3 | Tan Clayey Sand (SC) | | | 120.3 | |
| 5 | | | | -J-4 | Tan and Light Gray Clayey Sand w/Red and Yellow Streaks (SC) | | | 119.3 | |
| | | | | -J-5 | Tan and Light Gray Clayey Sand (SC) | | | 116.3 | |
| 10 | | | | -J-6 | Tan Clayey Sand (SC) | | | 113.3 | |
| | | | | -J-7 | Light Tan Silty Sand w/Scattered Gravel (SM) | | | | |
| 15 | | | | -J-8 | | | | 108.3 | |
| | | | | -J-9 | Tan Silty Sand w/Gray and Yellow Clay Lenses and Calcium Pockets (SM) | | | 107.3 | |
| | | | | -J-10 | Light Tan Caliche w/Brown Clay Lenses, Sandstone, and Caliche Rock (Caliche) | | | 106.3 | |
| 20 | | | | -J-11 | Yellowish Tan Silty Sand w/Scattered Gravel (SM) | | | | |
| | | | | -J-12 | Tan Silty Sand w/Scattered Gravel (SM) | | | | |
| 25 | | | | | Sandstone Layer at 25.0' | | | | |
| | | | | -J-13 | | | | 95.5 | |
| | | | | | Sandstone Layer at 28.5' | | | 95.3 | |
| 30 | | | | -J-14 | Tan Silty Sand w/Yellow and Tan Clay Lenses (SM) | | | 94.3 | |
| | | | | | Yellow and Tan Sandy Clay (CL) | | | | |
| <p>Total Depth of Boring = 30.0 Feet</p> <p><u>Notes:</u></p> <p>Project No. 4857 Boring Started: June 18, 1975 8:00 am Boring Completed: June 18, 1975 9:00 am Driller: George Whitehead</p> <p style="text-align: center;"><u>Water Observations</u></p> <p>Boring was drilled without water and groundwater was not encountered.</p> <p style="text-align: center;"><u>Grout Record</u></p> <p>Date: June 19, 1975 Volume Mixed = 23.0 Cu. Ft. Concrete Volume Used = 23.0 Cu. Ft. Concrete Grout Time: 1 Hour Clearing Time: None</p> | | | | | | | | | |

Tapp-Hamilton & Assoc. Inc.

**LOG OF BORING
FOR
COLETO CREEK POWER STATION**

DATE: June 18, 1975

BORING NO. DA-5

PROJECT LOCATION: Fannin, Texas

TYPE: Auger

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N - BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|--------------------|------------|--|--------------|----------------|-----------|-------------|
| | | | | | Ground Surface Elevation=124.3 Ft. | | | | |
| | | | | -J-1 | Tan Silty Sand (SM) | | | 123.3 | |
| | | | | -J-2 | Tan, Light Gray, and Red Clayey Sand (SC) | | | | |
| 5 | | | | -J-3 | Tan Clayey Sand w/Calcium Pockets (SC) | | | 119.3 | |
| | | | | -J-4 | Light Tan Clayey Sand and White Calcium (Caliche) | | | 117.3 | |
| 10 | | | | -J-5 | | | | | |
| | | | | -J-6 | Light Tan Silty Sand w/Loosely Cemented Sandstone Layers (SM) | | | 109.8 | |
| 15 | | | | -J-7 | | | | | |
| | | | | -J-8 | Light Tan Silty Sand w/Sandstone Lenses and Scattered Gravel (SM) | | | 104.3 | |
| 20 | | | | -J-9 | Tan Sand w/Scattered Gravel and Sandstone Lenses (SP) | | | 101.3 | |
| | | | | -J-10 | | | | | |
| 25 | | | | -J-11 | | | | | |
| 30 | | | | | Total Depth of Boring = 30.0 Feet | | | 94.3 | |
| | | | | | Notes: Project No. 4857 Boring Started: June 18, 1975 9:00 am Boring Completed: June 18, 1975 10:00 am Driller: George Whitehead | | | | |
| | | | | | <u>Water Observations</u> | | | | |
| | | | | | Boring was drilled without fluid and groundwater was not encountered. | | | | |
| | | | | | <u>Grout Record</u> | | | | |
| | | | | | Date: June 19, 1975 Volume Mixed = 23.0 Cu. Ft. Concrete Volume Used = 23.0 Cu. Ft. Concrete Grout Time: 1 Hour Clearing Time: None | | | | |
| | | | | | B-109 | | | | |

LOG OF BORING
FOR
COLETO CREEK POWER STATION

DATE: June 12, 1975

PROJECT LOCATION: Fannin, Texas

TYPE: Auger

BORING NO. DA-6

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|------------|---|--------------|----------------|-----------|-------------|
| | | | | | Ground Surface Elevation=117.0 Ft. | | | | |
| | | | | J-1 | Brown Silty Sand (SM) | | | 116.3 | |
| | | | | J-2 | Reddish Tan, Brown, and Light Gray Clayey Sand (SC) | | | | |
| 5 | | | | J-3 | Light Tan Clayey Sand and White Calcium w/Caliche Nodules (Caliche) | | | 113.0 | |
| | | | | J-4 | | | | | |
| 10 | | | | J-5 | | | | 105.0 | |
| | | | | J-6 | Tan Silty Sand w/Scattered Gravel (SM) | | | 101.0 | |
| 15 | | | | J-7 | Tan Sand w/Gravel, Caliche Particles, and Scattered Clayey Sand Layers (SP) | | | | |
| | | | | J-8 | | | | 95.0 | |
| 20 | | | | J-9 | Tan Sand, Coarse-Grained, w/ Scattered Gravel (SP) | | | | |
| | | | | | | | | 91.0 | |
| 25 | | | | | | | | | |
| 30 | | | | | Total Depth of Boring = 26.0 Feet Excessive caving occurred below 22.0 feet and drilling was halted at 26.0 feet. | | | | |
| | | | | | Notes: Project No. 4857 Boring Started: June 12, 1975 4:35 pm Boring Completed: June 12, 1975 5:13 pm Driller: George Whitehead <u>Water Observations</u> Boring was advanced without drilling fluid and groundwater was not encountered. <u>Grout Record</u> Date: June 17, 1975 Volume Mixed = 23.0 Cu. Ft. Concrete Volume Used = 23.0 Cu. Ft. Concrete Grout Time: 1 Hour Clearing Time: None | | | | |
| | | | | | B-110 | | | | |

LOG OF BORING
FOR
COLETO CREEK POWER STATION

DATE: June 12, 1975

BORING NO. DA-7

PROJECT LOCATION: Fannin, Texas

TYPE: Auger

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE | |
|------------|--------|--------|------------------|---|---|--------------|----------------|-----------|-------------|--|
| | | | | | Ground Surface Elevation=110.2 Ft. | | | | | |
| | | | | J-1 | Dark Gray Clayey Silt w/ Calcareous Particles (ML) | | | 109.7 | | |
| 5 | | | | J-2 | Light Tan Silty Sand w/Caliche Particles and Scattered Sandstone Gravel (Caliche) | | | | | |
| | | | | J-3 | | | | | | |
| | | | | J-4 | | | | 102.2 | | |
| 10 | | | | J-5 | Light Tan Silty Sand w/Sandstone Layers, Caliche Particles, and Quartz Gravel (Caliche) | | | | | |
| | | | | J-6 | | | | | | |
| 15 | | | | J-7 | Tan and Light Gray Clayey Sand w/ Scattered Gravel and Caliche Particles (SC) | | | 94.2 | | |
| | | | | | Light Tan Silty Sand w/Scattered Clayey Sand Lenses (SM) | | | 91.2 | | |
| 20 | | | | J-8 | | | | 90.2 | | |
| | | | | J-9 | Tan and Light Gray Clayey Sand w/Yellow Streaks (SC) | | | | | |
| 25 | | | | | ▼ W.S. 6-12-75 | | | 86.2 | | |
| | | | | | Light Gray Clayey Sand w/Scattered Caliche Particles and Sandstone Gravel (SC) | | | 84.2 | | |
| | | | | | | | | 82.2 | | |
| 30 | | | | <p>Total Depth of Boring = 28.0 Feet Excessive caving occurred below 26.0 feet and drilling was halted at 28.0 feet.</p> <p><u>Notes:</u> Project No. 4857 Boring Started: June 12, 1975 1:30 pm Boring Completed: June 12, 1975 2:45 pm Driller: George Whitehead</p> <p><u>Water Observations</u> Water surface was encountered at 26.0 feet on June 12, 1975, and it was at 20.0 feet on June 17, 1975.</p> <p><u>Grout Record</u> Date: June 17, 1975 Volume Mixed = 24.0 Cu. Ft. Concrete Volume Used = 24.0 Cu. Ft. Concrete Grout Time: 1 Hour Clearing Time: 1 Hour</p> | | | | | | |

LOG OF BORING
FOR
COLETO CREEK POWER STATION

DATE: June 11, 1975

PROJECT LOCATION: Fannin, Texas

TYPE: Auger

BORING NO. DA-8

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|------------|--|--------------|----------------|-----------|-------------|
| | | | | | Ground Surface Elevation=123.7 Ft. | | | | |
| | | | | -J-1 | Brown, Red, and Light Gray Clayey Sand (SC) | | | 122.7 | |
| 5 | | | | -J-2 | Light Gray and Tan Clayey Sand w/Red Streaks (SC) | | | 119.2 | |
| | | | | -J-3 | Light Brown Clay and White Calcium (Caliche) | | | 115.7 | |
| 10 | | | | -J-4 | Tan Clayey Sand w/Scattered Caliche Particles and Calcium Nodules (SC) | | | 112.7 | |
| 15 | | | | -J-5 | Light Gray Clay and White Calcium (Caliche) | | | | |
| | | | | -J-6 | Tan Clayey Sand w/Scattered Caliche Particles (SC) | | | 105.7 | |
| 20 | | | | -J-7 | Light Tan Silty Sand (SM) | | | 102.7 | |
| | | | | -J-8 | | | | | |
| 25 | | | | -J-9 | Tan Sand w/Scattered Sandstone Lenses and Gravel (SP) | | | 98.7 | |
| | | | | -J-10 | Tan Sand w/Clayey Sand Lenses (SP) | | | 95.7 | |
| 30 | | | | | Tan Sandstone | | | 93.9 | |
| | | | | | | | | 93.7 | |
| | | | | | Total Depth of Boring = 30.0 Feet | | | | |
| | | | | | <u>Notes:</u> | | | | |
| | | | | | Project No. 4857 | | | | |
| | | | | | Boring Started: June 11, 1975 5:30 pm | | | | |
| | | | | | Boring Completed: June 11, 1975 6:20 pm | | | | |
| | | | | | Driller: George Whitehead | | | | |
| | | | | | <u>Water Observations</u> | | | | |
| | | | | | Boring was advanced without fluid and groundwater was not encountered | | | | |
| | | | | | <u>Grout Record</u> | | | | |
| | | | | | Date: June 17, 1975 | | | | |
| | | | | | Volume Mixed = 24.0 Cu. Ft. Concrete | | | | |
| | | | | | Volume Used = 24.0 Cu. Ft. Concrete | | | | |
| | | | | | Grout Time: 1 Hour | | | | |

LOG OF BORING
FOR
COLETO CREEK POWER STATION

DATE: June 12, 1975

PROJECT LOCATION: Fannin, Texas

TYPE: Auger

BORING NO. DA-9

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE | |
|------------|--------|--------|------------------|--|--|--------------|----------------|-----------|-------------|--|
| | | | | | Ground Surface Elevation=122.8 Ft. | | | | | |
| | | | | J-1 | Brown Silty Sand (SM) | | | 122.3 | | |
| | | | | J-2 | Brown, Red, and Light Gray Clayey Sand (SC) | | | 119.3 | | |
| 5 | | | | J-3 | Tan and Light Gray Clayey Sand and White Calcium (Caliche) | | | | | |
| | | | | J-4 | Tan and Light Gray Clayey Sand and White Calcium w/Caliche Gravel (Caliche) | | | 113.8 | | |
| 10 | | | | J-5 | Light Tan Silty Sand (SM) | | | 107.8 | | |
| | | | | J-6 | Tan Sand w/Scattered Gravel (SP) | | | 105.0 | | |
| 15 | | | | J-7 | Light Tan Sandstone (Hard) | | | 104.8 | | |
| 20 | | | | | Total Depth of Boring = 18.0 Feet Auger would not penetrate the sandstone deeper. | | | | | |
| | | | | <p><u>Notes:</u> Project No. 4857 Boring Started: June 12, 1975 8:30 am Boring Completed: June 12, 1975 9:10 am Driller: George Whitehead</p> <p><u>Water Observations</u> Boring was advanced without fluid and groundwater was not encountered.</p> <p><u>Grout Record</u> Date: June 18, 1975 Volume Mixed = 14.0 Cu. Ft. Concrete Volume Used = 14.0 Cu. Ft. Concrete Grout Time: 1 Hour Clearing Time: 1/2 Hour</p> | | | | | | |

B-113

**LOG OF BORING
FOR
COLETO CREEK POWER STATION**

DATE: June 11, 1975

PROJECT LOCATION: Fannin, Texas TYPE: Auger

BORING NO. DA-10
LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|------------|--|--------------|----------------|-----------|-------------|
| | | | | | Ground Surface Elevation=119.5 Ft. | | | | |
| | | | | -J-1 | Brown and Yellowish Tan Clayey Sand (SC) | | | 116.5 | |
| 5 | | | | -J-2 | Light Gray and Tan Clayey Sand w/ Scattered Calcium Nodules (SC) | | | 112.5 | |
| 10 | | | | -J-3 | Tan Clayey Sand w/Gravel (SC) | | | 106.5 | |
| 15 | | | | -J-4 | Tan Silty Sand (SM) | | | 101.5 | |
| | | | | -J-5 | | | | | |
| 20 | | | | -J-6 | Light Tan Silty Sand w/Scattered Gravel (SM) | | | 97.0 | |
| 25 | | | | -J-7 | Tan Sand w/Scattered Gravel and Clayey Sand Lenses (SP) | | | 94.5 | |
| | | | | | Tan Sand w/Scattered Gravel, Sandstone Lenses, and Clayey Sand Lenses (SP) | | | 93.5 | |
| 30 | | | | -J-8 | Yellowish Tan Sand w/Scattered Gravel (SP) | | | 91.0 | |
| | | | | | Tan Sandstone | | | 90.8 | |

Total Depth of Boring = 28.7 Feet
Auger would not penetrate the sandstone deeper.

Notes:

Project No. 4857
Boring Started: June 11, 1975 3:30 pm
Boring Completed: June 11, 1975 3:55 pm
Driller: George Whitehead

Water Observations

Boring was advanced without fluid and groundwater was not encountered.

Grout Record

Date: June 18, 1975
Volume Mixed = 20.0 Cu. Ft. Concrete
Volume Used = 20.0 Cu. Ft. Concrete
Grout Time: 1 Hour Clearing Time: 1 Hour

**LOG OF BORING
FOR
COLETO CREEK POWER STATION**

DATE: June 11, 1975

PROJECT LOCATION: Fannin, Texas

TYPE: Auger

BORING NO. DA-11

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE | |
|------------|--------|--------|------------------|--|---|--------------|----------------|-----------|-------------|--|
| | | | | | Ground Surface Elevation=127.5 Ft. | | | | | |
| | | | | -J-1 | Brown, Red, and Tan Silty Clayey Sand (SM-SC) | | | 125.5 | | |
| 5 | | | | -J-2 | Tan and Light Gray Clayey Sand w/ Black Specks and Scattered Red Streaks (SC) | | | 121.5 | | |
| 10 | | | | -J-3 | Light Gray and Tan Clayey Sand w/ Black Specks and Scattered Caliche (SC) | | | 116.5 | | |
| 15 | | | | -J-4 | Tan Clayey Sand w/Black Specks (SC) | | | 113.0 | | |
| | | | | -J-5 | Light Gray Clay and Calcium (Caliche) | | | 109.5 | | |
| 20 | | | | -J-6 | Tan Silty Sand (SM) | | | 106.5 | | |
| | | | | -J-7 | Tan Sand w/Scattered Gravel (SP) | | | 102.2 | | |
| 25 | | | | -J-8 | Tan Sandstone | | | 102.0 | | |
| 30 | | | | Total Depth of Boring = 25.5 Feet Auger would not penetrate sandstone deeper. Notes: Project No. 4857 Boring Started: June 11, 1975 1:00 pm Boring Completed: June 11, 1975 1:40 pm Driller: George Whitehead <u>Water Observations</u> Boring was advanced without fluid and groundwater was not encountered. <u>Grout Record</u> Date: June 18, 1975 Volume Mixed = 18.0 Cu. Ft. Concrete Volume Used = 18.0 Cu. Ft. Concrete Grout Time: 1 Hour Clearing Time: 1 Hour | | | | | | |

B-115

LOG OF BORING
FOR
COLETO CREEK POWER STATION

DATE: June 13, 1975

PROJECT LOCATION: Fannin, Texas

TYPE: Auger

BORING NO. DA-12

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|---|--------|--------|------------------|------------|--|--------------|----------------|-----------|-------------|
| | | | | | Ground Surface Elevation=124.8 Ft. | | | | |
| | | | | J-1 | Brown Silty Sand (SM) | | | 124.3 | |
| | | | | J-2 | Tan, Red, and Light Gray Clayey Sand (SC) | | | 121.8 | |
| 5 | | | | J-3 | Light Gray and Tan Clayey Sand (SC) | | | | |
| | | | | J-4 | | | | | |
| 10 | | | | J-5 | | | | 114.8 | |
| | | | | J-6 | Tan and Light Gray Clayey Sand and White Calcium w/Caliche Gravel (Caliche) | | | 111.3 | |
| 15 | | | | J-7 | Tan Clayey Sand and White Calcium and Scattered Gravel (Caliche) | | | 109.3 | |
| | | | | J-8 | Tan and Red Clayey Sand (SC) | | | 107.3 | |
| 20 | | | | J-9 | Light Gray Clayey Sand and White Calcium w/Scattered Red Streaks (Caliche) | | | 104.8 | |
| | | | | J-9 | Light Gray Clayey Sand w/Sandstone Lenses and Scattered Red Streaks (SC) | | | 102.8 | |
| 25 | | | | J-10 | Yellowish Tan and Light Gray Clay w/Scattered Calcium and Black Specks (Hard) (CH) | | | 98.8 | |
| 30 | | | | J-11 | | | | | |
| <p>Total Depth of Boring = 26.0 Feet Auger would not penetrate the hard clay deeper.</p> <p><u>Notes:</u> Project No. 4857 Boring Started: June 13, 1975 3:45 pm Boring Completed: June 13, 1975 4:45 pm Driller: George Whitehead</p> <p><u>Water Observations</u> Boring was advanced without fluid and groundwater was not encountered.</p> <p><u>Grout Record</u> Date: June 17, 1975 Volume Mixed = 22.0 Cu. Ft. Concrete Volume Used = 22.0 Cu. Ft. Concrete Grout Time: 1 Hour Clearing Time: 2 Hrs.</p> | | | | | | | | | |

LOG OF BORING
FOR
COLETO CREEK POWER STATION

DATE: June 13, 1975

PROJECT LOCATION: Fannin, Texas

TYPE: Auger

BORING NO. DA-13

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | M-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|------------|--|--------------|----------------|-----------|-------------|
| | | | | | Ground Surface Elevation=128.0 Ft. | | | | |
| | | | | J-1 | Brown Silty Sand (SM) | | | 127.5 | |
| | | | | -J-2 | Brown and Tan Clayey Sand w/Red Streaks (SC) | | | 125.0 | |
| 5 | | | | -J-3 | Gray Clayey Sand w/Red and Black Specks and Calcium Particles (SC) | | | 123.0 | |
| | | | | -J-4 | Light Gray Clayey Sand w/Black Specks, Red Streaks, and Calcium Nodules (SC) | | | | |
| 10 | | | | -J-5 | | | | 118.0 | |
| | | | | -J-6 | Tan Clayey Sand (SC) | | | 117.0 | |
| | | | | -J-7 | Light Gray Clayey Sand w/Calcium Nodules and Black Specks (SC) | | | 116.0 | |
| | | | | -J-8 | Light Gray and Yellow Clayey Sand w/Scattered Gravel (SC) | | | 114.0 | |
| 15 | | | | -J-9 | Light Gray Clayey Sand and White Calcium (Caliche) | | | | |
| | | | | -J-10 | Tan Sand, Slightly Clayey (SP) | | | 110.0 | |
| | | | | -J-11 | | | | 106.0 | |
| | | | | -J-12 | Yellowish Tan Sand, Coarse-Grained, w/Scattered Gravel, Clayey Sand Layers, and Caliche Particles (SP) | | | 104.0 | |
| 25 | | | | -J-13 | Tan Sand w/Sandstone Layers (SP) | | | 103.2 | |
| | | | | | Tan Sandstone | | | 103.0 | |

Total Depth of Boring = 25.0 Feet

Auger would not penetrate the sandstone deeper.

Notes:

Project No. 4857

Boring Started: June 13, 1975 2:30 pm

Boring Completed: June 13, 1975 3:15 pm

Driller: George Whitehead

Water Observations

Boring was advanced without fluid and groundwater was not encountered.

Grout Record

Date: June 17, 1975

Volume Mixed = 22.0 Cu. Ft. Concrete

Volume Used = 22.0 Cu. Ft. Concrete

Grout Time: 1 Hour Clearing Time: 1.5 Hrs.

LOG OF BORING
FOR
COLETO CREEK POWER STATION

DATE: June 11, 1975

PROJECT LOCATION: Fannin, Texas

TYPE: Auger

BORING NO. DA-14

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|------------|---|--------------|----------------|-----------|-------------|
| | | | | | Ground Surface Elevation=132.6 Ft. | | | | |
| | | | | -J-1 | Tan Silty Sand (SM) | | | 131.6 | |
| | | | | -J-2 | Tan Clayey Sand w/Red Streaks (SC) | | | 129.6 | |
| 5 | | | | -J-3 | Light Tan Silty Sand (Loosely Cemented) (SM) | | | 128.6 | |
| | | | | -J-4 | Light Gray Clayey Sand w/Tan and Red Streaks (SC) | | | 125.6 | |
| 10 | | | | -J-5 | Light Gray and Tan Clayey Sand w/Caliche (SC) | | | | |
| | | | | -J-6 | | | | 121.1 | |
| 15 | | | | -J-7 | Light Gray Clay and White Calcium (Caliche) | | | | |
| | | | | -J-8 | | | | | |
| | | | | -J-9 | | | | | |
| 20 | | | | -J-10 | Tan Silty Sand w/Scattered Gravel (SM) | | | 112.6 | |
| | | | | -J-11 | | | | | |
| 25 | | | | -J-12 | | | | | |
| | | | | -J-13 | | | | | |
| 30 | | | | | Tan Sandstone | | | 104.3 | |
| | | | | | | | | 104.1 | |
| | | | | | Total Depth of Boring = 28.5 Feet Auger would not penetrate the sandstone deeper. <u>Notes:</u> Project No. 4857 Boring Started: June 11, 1975 8:00 am Boring Completed: June 11, 1975 9:45 am Driller: George Whitehead <u>Water Observations</u> Boring was advanced without fluid and groundwater was not encountered <u>Grout Record</u> Date: June 17, 1975 Volume Mixed = 25.0 Cu. Ft. Concrete Volume Used = 25.0 Cu. Ft. Concrete Grout Time: 1 Hour Clearing Time: 1 Hour | | | | |

LOG OF BORING
FOR
COLETO CREEK POWER STATION

DATE: June 18, 1975

PROJECT LOCATION: Fannin, Texas

TYPE: Auger

BORING NO. DA-15

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|------------|--|--------------|----------------|-----------|-------------|
| | | | | | Ground Surface Elevation = 117.3 Ft. | | | | |
| | | | | -J-1 | Tan Silty Sand (SM) | | | | |
| 5 | | | | -J-2 | Tan Silty Sand w/Tan, Gray, and Red Clayey Sand Lenses (SM) | | | 114.3 | |
| | | | | -J-3 | Tan and Gray Clayey Sand w/ Yellow Streaks (SC) | | | 112.3 | |
| | | | | -J-4 | Light Brown Sand (SP) | | | 111.3 | |
| 10 | | | | -J-5 | Tan Sand (SP) | | | 109.3 | |
| | | | | -J-6 | Tan Sand w/Scattered Gravel (SP) | | | 107.3 | |
| 15 | | | | -J-7 | Light Tan Sand (SP) | | | 103.3 | |
| | | | | -J-8 | Tan Sand w/Clay Lenses (SP) | | | 101.3 | |
| 20 | | | | -J-9 | Light Gray and Yellow Clayey Sand (SC) | | | 99.3 | |
| | | | | -J-9 | Light Tan Sand (SP) | | | 97.3 | |
| | | | | -J-9 | Light Brown Sand (Moist) (SP) | | | 96.3 | |
| 25 | | | | -J-10 | Tan, Light Gray, and Yellow Clayey Sand w/Clay Lenses and Sand Lenses (SC) | | | 92.8 | |
| | | | | -J-11 | | | | | |
| 30 | | | | -J-12 | | | | | |
| | | | | | Total Depth of Boring = 30.0 Feet | | | 87.3 | |
| | | | | | Notes: | | | | |
| | | | | | Project No. 4857 | | | | |
| | | | | | Boring Started: June 18, 1975 1:00 pm | | | | |
| | | | | | Boring Completed: June 18, 1975 2:00 pm | | | | |
| | | | | | Driller: George Whitehead | | | | |
| | | | | | <u>Water Observations</u> | | | | |
| | | | | | Boring was drilled without fluid and groundwater was not encountered. | | | | |
| | | | | | <u>Grout Record</u> | | | | |
| | | | | | Date: June 19, 1975 | | | | |
| | | | | | Volume Mixed = 23.0 Cu. Ft. Concrete | | | | |
| | | | | | Volume Used = 23.0 Cu. Ft. Concrete | | | | |
| | | | | | Grouting Time: 1 Hour | | | | |
| | | | | | Clearing Time: 1 Hour | | | | |

LOG OF BORING
FOR
COLETO CREEK POWER STATION

DATE: June 18, 1975

BORING NO. DA-16

PROJECT LOCATION: Fannin, Texas

TYPE: Auger

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|------------|--|--------------|----------------|-----------|-------------|
| | | | | | Ground Surface Elevation=118.8 Ft. | | | | |
| | | | | -J-1 | Brown Silty Sand (SM) | | | 117.8 | |
| | | | | LJ-2 | Tan and Light Gray Clayey Sand w/ Yellow Streaks (SC) | | | 115.8 | |
| 5 | | | | -J-3 | Tan and Light Gray Clayey Sand w/Red and Yellow Streaks (SC) | | | | |
| | | | | -J-4 | | | | 109.8 | |
| 10 | | | | -J-5 | Light Gray and Tan Clayey Sand w/ Black Specks (SC) | | | 106.8 | |
| | | | | LJ-6 | Light Gray Clay w/Calcium Pockets (CH) | | | 105.8 | |
| 15 | | | | -J-7 | Tan Silty Sand (SM) | | | 103.8 | |
| | | | | | Tan Sand (SP) | | | 102.8 | |
| | | | | LJ-8 | Tan and Gray Sand w/Gravel (SP) | | | 101.8 | |
| 20 | | | | -J-9 | Light Tan Silty Sand (SM) | | | 99.8 | |
| | | | | LJ-10 | Tan and Yellow Sand w/Scattered Gravel and Clay Lenses (SP) | | | 97.8 | |
| 25 | | | | -J-11 | Light Tan Silty Sand (SM) | | | | |
| | | | | -J-12 | Light Gray and Tan Clayey Sand (SC) | | | 92.8 | |
| | | | | -J-13 | Light Gray Clayey Sand and White Calcium (Caliche) | | | 90.8 | |
| 30 | | | | -J-14 | | | | 88.8 | |
| | | | | | Total Depth of Boring = 30.0 Feet | | | | |
| | | | | | <u>Notes:</u> | | | | |
| | | | | | Project No. 4857 | | | | |
| | | | | | Boring Started: June 18, 1975 2:00 pm | | | | |
| | | | | | Boring Completed: June 18, 1975 3:00 pm | | | | |
| | | | | | Driller: George Whitehead | | | | |
| | | | | | <u>Water Observations</u> | | | | |
| | | | | | Boring was drilled without fluid and groundwater was not encountered. | | | | |
| | | | | | <u>Grout Record</u> | | | | |
| | | | | | Date: June 19, 1975 | | | | |
| | | | | | Volume Mixed = 23.0 Cu. Ft. Concrete | | | | |
| | | | | | Volume Used = 23.0 Cu. Ft. Concrete | | | | |
| | | | | | Grout Time: 1 Hour | | | | |
| | | | | | Clearing Time: None | | | | |
| | | | | | B-120 | | | | |

**LOG OF BORING
FOR
COLETO CREEK POWER STATION**

DATE: June 11, 1975

BORING NO. DA-17

PROJECT LOCATION: Fannin, Texas TYPE: Auger

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE | |
|------------|--------|--------|------------------|---|--|--------------|----------------|-----------|-------------|--|
| | | | | | Ground Surface Elevation=123.3 Ft. | | | | | |
| | | | | -J-1 | Tan Silty Sand (SM) | | | 121.8 | | |
| 5 | | | | -J-2 | Tan and Light Gray Clayey Sand w/Red Streaks (SC) | | | 118.3 | | |
| | | | | -J-3 | Light Gray and Tan Clayey Sand w/Red Streaks and Black Specks (SC) | | | 114.3 | | |
| 10 | | | | -J-4 | Red, Light Gray, and Tan Clayey Sand (SC) | | | 111.3 | | |
| | | | | -J-5 | Tan Clayey Sand w/Scattered Red Streaks (SC) | | | | | |
| 15 | | | | -J-6 | | | | 105.8 | | |
| | | | | -J-7 | Tan Sand, Slightly Clayey, w/Gravel and Red Streaks (SP) | | | 103.3 | | |
| 20 | | | | -J-8 | Light Tan Silty Sand, Slightly Clayey (SM) | | | 100.3 | | |
| | | | | -J-9 | Red, Tan, and Light Gray Clayey Sand w/Gravel (SC) | | | | | |
| 25 | | | | -J-10 | | | | 95.3 | | |
| | | | | -J-11 | Tan Silty Sand (SM) | | | 93.3 | | |
| 30 | | | | Total Depth of Boring = 30.0 Feet | | | | | | |
| | | | | <u>Notes:</u> Project No. 4857 Boring Started: June 11, 1975 1:45 pm Boring Completed: June 11, 1975 2:45 pm Driller: George Whitehead <u>Water Observations</u> Boring was advanced without fluid and groundwater was not encountered. <u>Grout Record</u> Date: June 18, 1975 Volume Mixed = 23.0 Cu. Ft. Concrete Volume Used = 23.0 Cu. Ft. Concrete Grout Time: 1 Hour Clearing Time: 1/2 Hour | | | | | | |

LOG OF BORING
FOR
COLETO CREEK POWER STATION

DATE: June 11, 1975

BORING NO. DA-18

PROJECT LOCATION: Fannin, Texas

TYPE: Auger

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|------------|---|--------------|----------------|-----------|-------------|
| | | | | | Ground Surface Elevation=118.8 Ft. | | | | |
| | | | | J-1 | Brown, Tan, and Light Gray Clayey Sand (SC) | | | 116.3 | |
| 5 | | | | J-2 | Tan and Light Gray Clayey Sand w/ Scattered Red Specks and Gravel (SC) | | | 113.8 | |
| | | | | J-3 | Light Gray and Tan Clayey Sand w/ Black Specks and Calcium Nodules (SC) | | | 110.8 | |
| 10 | | | | J-4 | Light Gray Clay and White Calcium (Caliche) | | | 108.8 | |
| | | | | J-5 | Tan and Light Gray Silty Sand, Slightly Clayey (SM) | | | | |
| 15 | | | | J-6 | Tan Sand w/ Brown Gravel (SP) | | | 103.8 | |
| | | | | J-7 | Light Gray Clay and White Calcium w/ Caliche and Gravel (Caliche) | | | 102.8 | |
| | | | | J-8 | Light Tan Sand (SP) | | | 100.8 | |
| 20 | | | | J-9 | Tan Sand w/ Scattered Gravel and Clayey Sand Lenses (SP) | | | 96.8 | |
| | | | | J-10 | Light Tan Sand (SP) | | | 94.8 | |
| 25 | | | | J-11 | Light Tan Sand w/ Scattered Gravel and Caliche (SP) | | | 90.8 | |
| 30 | | | | | | | | 88.8 | |
| | | | | | Total Depth of Boring = 30.0 Feet | | | | |
| | | | | | <u>Notes:</u> | | | | |
| | | | | | Project No. 4857 | | | | |
| | | | | | Boring Started: June 11, 1975 2:45 pm | | | | |
| | | | | | Boring Completed: June 11, 1975 3:20 pm | | | | |
| | | | | | Driller: George Whitehead | | | | |
| | | | | | <u>Water Observations</u> | | | | |
| | | | | | Boring was advanced without fluid and groundwater was not encountered. | | | | |
| | | | | | <u>Grout Record</u> | | | | |
| | | | | | Date: June 18, 1975 | | | | |
| | | | | | Volume Mixed = 22.0 Cu. Ft. Concrete | | | | |
| | | | | | Volume Used = 22.0 Cu. Ft. Concrete | | | | |
| | | | | | Grout Time: 1 Hour | | | | |
| | | | | | Clearing Time: 1/2 Hour | | | | |

LOG OF BORING
FOR
COLETO CREEK POWER STATION

DATE: June 11, 1975

BORING NO. DA-19

PROJECT LOCATION: Fannin, Texas

TYPE: Auger

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE | | |
|------------|--------|--------|------------------|--|---|--------------|----------------|-----------|-------------|--|--|
| | | | | | Ground Surface Elevation=117.7 Ft. | | | | | | |
| | | | | -J-1 | Brown Sandy Silt (ML) | | | 116.2 | | | |
| | | | | -J-2 | Reddish Brown Clayey Sand (SC) | | | 113.7 | | | |
| 5 | | | | -J-3 | Tan and Light Gray Clayey Sand w/Red Streaks (SC) | | | 109.2 | | | |
| 10 | | | | -J-4 | Light Gray Clay and White Calcium (Caliche) | | | 105.7 | | | |
| | | | | -J-5 | Tan to Light Tan Sand (SP) | | | 102.7 | | | |
| 15 | | | | -J-6 | Tan Sand w/Scattered Sandstone Lenses (SP) | | | 98.2 | | | |
| 20 | | | | -J-7 | Tan Sand w/Scattered Gravel and Caliche (SP) | | | | | | |
| | | | | -J-8 | | | | | | | |
| 25 | | | | -J-9 | | | | 91.7 | | | |
| 30 | | | | Total Depth of Boring = 26.0 Feet Excessive caving occurred below 12.0 feet and drilling was halted at 26.0 feet. Notes: Project No. 4857 Boring Started: June 11, 1975 4:30 pm Boring Completed: June 11, 1975 5:15 pm Driller: George Whitehead Water Observations Boring was advanced without fluid and groundwater was not encountered. Grout Record Date: June 17, 1975 Volume Mixed = 21.0 Cu. Ft. Concrete Volume Used = 21.0 Cu. Ft. Concrete Grout Time: 1 Hour Clearing Time: None | | | | | | | |

LOG OF BORING
FOR
COLETO CREEK POWER STATION

DATE: June 13, 1975

PROJECT LOCATION: Fannin, Texas

TYPE: Auger

BORING NO. DA-20

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|------------|---|--------------|----------------|-----------|-------------|
| | | | | | Ground Surface Elevation=103.4 Ft. | | | | |
| | | | | J-1 | Dark Brown Sandy Silt (ML) | | | 102.9 | |
| | | | | J-2 | Tan Sandy Clay and White Calcium (Caliche) | | | 101.4 | |
| 5 | | | | J-3 | Tan Sandy Silt w/Scattered Gravel (ML) | | | 99.4 | |
| | | | | J-4 | Tan and Light Tan Silty Sand w/Scattered Gravel and Caliche Nodules (SM) | | | 96.4 | |
| 10 | | | | J-5 | Tan Sandy Silt and White Calcium w/Scattered Gravel (Caliche) | | | 92.4 | |
| | | | | J-6 | Tan Clayey Sand w/Caliche and Scattered Gravel (SC) | | | 90.4 | |
| 15 | | | | J-7 | Light Tan and Tan Sand w/Scattered Gravel (SP) | | | | |
| | | | | J-8 | | | | | |
| 20 | | | | J-9 | Light Tan and Yellow Sand, Coarse-Grained, w/Scattered Gravel (SP) | | | 83.4 | |
| | | | | J-10 | | | | 79.4 | |
| 25 | | | | | W.S. 6-13-75 | | | 78.4 | |
| | | | | J-11 | Light Gray and Tan Clayey Sand w/Small Roots (SC) | | | | |
| | | | | | Tan Sand, Coarse-Grained (SP) | | | 76.4 | |
| 30 | | | | | Total Depth of Boring = 27.0 Feet Drilled halted due to excessive caving. | | | | |
| | | | | | <u>Notes:</u> Project No. 4857 Boring Started: June 13, 1975 8:45 am Boring Completed: June 13, 1975 9:50 am Driller: George Whitehead | | | | |
| | | | | | <u>Water Observations</u> Groundwater was encountered at 25.0 feet below the ground surface. | | | | |
| | | | | | <u>Grout Record</u> Date: June 17, 1975 Volume Mixed = 23.0 Cu. Ft. Concrete Volume Used = 23.0 Cu. Ft. Concrete Grout Time: 1 Hour Clearing Time: 3 Hours | | | | |

LOG OF BORING
FOR
COLETO CREEK POWER STATION

DATE: June 11, 1975

PROJECT LOCATION: Fannin, Texas

TYPE: Auger

BORING NO. DB-1

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|------------|---|--------------|----------------|-----------|-------------|
| | | | | | Ground Surface Elevation=132.1 Ft. | | | | |
| | | | | -J-1 | Reddish Tan and Tan Clayey Sand (SC) | | | 128.6 | |
| 5 | | | | -J-2 | Light Gray and Tan Clayey Sand w/Red Streaks (SC) | | | | |
| | | | | -J-3 | | | | | |
| 10 | | | | -J-4 | Red, Light Gray, and Tan Clayey Sand w/Scattered Lignite Particles (SC) | | | 123.1 | |
| | | | | -J-5 | | | | 120.1 | |
| | | | | -J-6 | Tan Clayey Sand (SC) | | | 117.1 | |
| 15 | | | | -J-7 | Tan Clayey Sand and White Calcium w/Scattered Gravel (Caliche) | | | | |
| | | | | -J-8 | | | | 112.6 | |
| 20 | | | | -J-9 | Light Tan Sandstone, Hard, w/ Scattered Gravel | | | 111.1 | |
| | | | | -J-9 | Light Tan Sand w/Scattered Gravel (SP) | | | 110.1 | |
| 25 | | | | -J-10 | Light Tan Sandstone, Hard, w/ Scattered Gravel | | | 108.6 | |
| | | | | -J-11 | | | | | |

Total Depth of Boring = 23.5 Feet
Auger would not penetrate the sandstone deeper.

Notes:

Project No. 4857

Boring Started: June 11, 1975 11:05 am

Boring Completed: June 11, 1975 12:00 noon

Driller: George Whitehead

Water Observations

Boring was advanced without fluid and groundwater was not encountered.

Grout Record

Date: June 17, 1975

Volume Mixed = 34.0 Cu. Ft. Concrete

Volume Used = 34.0 Cu. Ft. Concrete

Grout Time: 1 Hour Clearing Time: None

Large Bag Samples

Sample Depths

0.0- 3.0 9.0-14.0

4.0- 9.0 15.0-19.5

LOG OF BORING
FOR
COLETO CREEK POWER STATION

DATE: June 12, 1975

PROJECT LOCATION: Fannin, Texas

TYPE: Auger

BORING NO. DB-2

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE | |
|------------|--------|--------|------------------|---|--|--------------|----------------|----------------|-------------|--|
| | | | | | Ground Surface Elevation=124.8 Ft. | | | | | |
| | | | | J-1 | Brown Silty Sand (SM) | | | 124.3 | | |
| 5 | | | | J-2 | Brown, Tan, and Light Gray Clayey Sand (SC) | | | | | |
| | | | | J-3 | Brown and Tan Clayey Sand and White Calcium (Caliche) | | | 119.8 | | |
| 10 | | | | J-4 | Tan Clayey Sand and White Calcium w/Caliche Gravel (Caliche) | | | 115.8 | | |
| | | | | J-5 | | | | | | |
| 15 | | | | J-6 | Tan Clayey Sand w/Scattered Gravel and Caliche (SC) | | | 110.8 | | |
| | | | | J-7 | | | | | | |
| 20 | | | | J-8 | | | | | | |
| | | | | J-9 | Tan and Light Gray Caliche, Hard, w/Black Specks | | | 102.8 101.8 | | |
| 25 | | | | Total Depth of Boring = 23.0 Feet Auger would not penetrate the caliche deeper. <u>Notes:</u> Project No. 4857 Boring Started: June 12, 1975 11:30 am Boring Completed: June 12, 1975 12:15 pm Driller: George Whitehead <u>Water Observations</u> Boring was advanced without fluid and groundwater was not encountered. <u>Grout Record</u> Date: June 17, 1975 Volume Mixed = 33.0 Cu. Ft. Concrete Volume Used = 33.0 Cu. Ft. Concrete Grout Time: 1 Hour Clearing Time: 1 Hour <u>Large Bag Samples</u> Sample Depths 0.5-4.0 9.0-13.0 5.0-9.0 14.0-18.0 B-126 | | | | | | |

LOG OF BORING
FOR
COLETO CREEK POWER STATION

DATE: June 12, 1975

PROJECT LOCATION: Fannin, Texas TYPE: Auger

BORING NO. DB-3

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|------------|--|--------------|----------------|-----------|-------------|
| | | | | | Ground Surface Elevation=119.3 Ft. | | | | |
| | | | | -J-1 | Dark Brown Sandy Clay (CL) | | | | |
| 5 | | | | -J-2 | Tan and Brown Clayey Sand w/Red Streaks (SC) | | | 117.3 | |
| | | | | -J-3 | Tan and Light Gray Clayey Sand and White Calcium w/Caliche Gravel and Loosely Cemented Zones (Caliche) | | | 113.3 | |
| 10 | | | | -J-4 | | | | | |
| | | | | -J-5 | Tan Silty Sand w/Scattered Gravel and Calcium Nodules (SM) | | | 105.3 | |
| 15 | | | | -J-6 | Tan Sand w/Gravel (SP) | | | 101.3 | |
| | | | | -J-7 | Tan Sandstone w/Gravel (Loosely Cemented) | | | 99.3 | |
| 20 | | | | | Tan Sandstone, Hard | | | 98.3 | |
| | | | | | | | | 98.0 | |
| 25 | | | | | Total Depth of Boring = 21.3 Feet Auger would not penetrate sandstone deep deeper. | | | | |
| | | | | | <u>Notes:</u> Project No. 4857 Boring Started: June 12, 1975 3:30 pm Boring Completed: June 12, 1975 4:10 pm Driller: George Whitehead | | | | |
| | | | | | <u>Water Observations</u> Boring was advanced without fluid and did not encounter groundwater. | | | | |
| | | | | | <u>Grout Record</u> Date: June 17, 1975 Volume Mixed = 32.0 Cu. Ft. Concrete Volume Used = 32.0 Cu. Ft. Concrete Grout Time: 1 Hr. Clearing: 1.75 Hrs. | | | | |
| | | | | | <u>Large Bag Samples</u> Sample Depths 0.0- 2.0 7.0-14.0 2.0- 6.0 14.0-18.0 | | | | |
| | | | | | B-127 | | | | |

LOG OF BORING
FOR
COLETO CREEK POWER STATION

DATE: June 9, 1975

PROJECT LOCATION: Fannin, Texas

TYPE: Auger

BORING NO. DB-4

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|------------|--|--------------|----------------|-----------|-------------|
| | | | | | Ground Surface Elevation=124.2 Ft. | | | | |
| | | | | -J-1 | Brown Silty Sand (SM) | | | | |
| | | | | -J-2 | Brown, Tan, and Red Clayey Sand (SC) | | | 122.7 | |
| 5 | | | | -J-3 | Brown, Tan, and Light Gray Clayey Sand (SC) | | | 120.7 | |
| | | | | -J-4 | | | | 119.7 | |
| | | | | -J-5 | Light Tan Clayey Sand and White Calcium (Caliche) | | | | |
| 10 | | | | -J-6 | | | | | |
| | | | | -J-7 | | | | | |
| 15 | | | | -J-8 | | | | | |
| | | | | -J-9 | Light Tan Sand w/Scattered Gravel (SP) | | | 104.2 | |
| 20 | | | | -J-10 | | | | | |
| | | | | -J-11 | | | | | |
| 25 | | | | -J-12 | | | | | |
| | | | | | Total Depth of Boring = 25.0 Feet | | | 99.2 | |
| | | | | | Notes: | | | | |
| | | | | | Project No. 4857 | | | | |
| | | | | | Boring Started: June 9, 1975 1:15 pm | | | | |
| | | | | | Boring Completed: June 9, 1975 3:15 pm | | | | |
| | | | | | Driller: Joe Castleberry | | | | |
| | | | | | <u>Water Observations</u> | | | | |
| | | | | | Boring was advanced without fluid and groundwater was not encountered. | | | | |
| | | | | | <u>Grout Record</u> | | | | |
| | | | | | Date: June 9, 1975 | | | | |
| | | | | | Volume Mixed = 6.0 Cu. Ft. | | | | |
| | | | | | Volume Used = 6.0 Cu. Ft. | | | | |
| | | | | | Cement 3 Sacks, Bentonite 1/2 Sack | | | | |
| | | | | | Grout Time: 2 Hours | | | | |
| | | | | | Clearing Time: None | | | | |

B-128

**LOG OF BORING
FOR
COLETO CREEK POWER STATION**

DATE: June 12, 1975

BORING NO. DB-5

PROJECT LOCATION: Fannin, Texas

TYPE: Auger

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|---|--------|--------|---------------------|---------------|---|-----------------|-------------------|-----------|-------------|
| | | | | | Ground Surface Elevation=132.2 Ft. | | | | |
| | | | | J-1 | Reddish Tan Sand (SP) | | | 131.7 | |
| | | | | J-2 | Tan, Light Gray, and Red Clayey Sand (SC) | | | 128.7 | |
| 5 | | | | J-3 | Light Tan Clayey Sand w/Scattered Red Streaks (SC) | | | 124.2 | |
| 10 | | | | J-4 | Light Tan and Red Clayey Sand (SC) | | | 117.7 | |
| 15 | | | | J-5 | | | | 113.2 | |
| | | | | J-6 | Tan Clayey Sand w/Sand Layers and Scattered Gravel (SC) | | | 109.7 | |
| 20 | | | | J-7 | Light Tan Sand w/Scattered Clayey Sand Lenses (SP) | | | 109.2 | |
| | | | | J-8 | Tan Clayey Sand w/Gravel (SC) | | | 108.2 | |
| 25 | | | | J-9 | Tan Clayey Sand (SC) | | | 107.2 | |
| | | | | | Light Tan Silty Sand (SM) | | | | |
| Total Depth of Boring = 25.0 Feet | | | | | | | | | |
| <u>Notes:</u> | | | | | | | | | |
| Project No. 4857 | | | | | | | | | |
| Boring Started: June 12, 1975 10:20 am | | | | | | | | | |
| Boring Completed: June 12, 1975 11:00 am | | | | | | | | | |
| Driller: George Whitehead | | | | | | | | | |
| <u>Water Observations</u> | | | | | | | | | |
| Boring was drilled without fluid and groundwater was not encountered. | | | | | | | | | |
| <u>Grout Record</u> | | | | | | | | | |
| Date: June 18, 1975 | | | | | | | | | |
| Volume Mixed = 35.0 Cu. Ft. Concrete | | | | | | | | | |
| Volume Used = 35.0 Cu. Ft. Concrete | | | | | | | | | |
| Grout Time: 1 Hour Clearing Time: 2.5 Hours | | | | | | | | | |
| <u>Large Bag Samples</u> | | | | | | | | | |
| Sample Depths | | | | | | | | | |
| 1.0- 3.0 4.0- 7.0 | | | | | | | | | |
| 9.0-13.0 15.0-18.0 | | | | | | | | | |
| 19.0-22.0 | | | | | | | | | |

**LOG OF BORING
FOR
COLETO CREEK POWER STATION**

Sheet 1 of 3

DATE: May 15, 1975

PROJECT LOCATION: Fannin, Texas

TYPE: Core

BORING NO. SY-1

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|---------------|--------|--------|---------------------|---------------|--|-----------------|-------------------|-----------|-------------|
| | | | | | Ground Surface Elevation=125.5 Ft. | | | | |
| | | | 8 | J-1, J-2 | Light Tan Sand w/Clayey Sand Layers (SM) | | | 124.0 | |
| 5 | | | | | Light Tan and Brown Sandy Clay w/Red Streaks (CL) | | | 121.5 | |
| | | | | S-1 | Light Tan Clayey Sand w/Brown Sandy Clay Lenses, Red Streaks, and Caliche Particles (SC) | | | 118.5 | |
| 10 | | | 36 | J-3 | Light Tan Clayey Sand w/Caliche Nodules and Black Specks (SC) | | | | |
| 15 | | | 44 | J-4 | | | | 109.0 | |
| 20 | | | 44 | J-5 | Light Tan Sand, Coarse-Grained, w/Gravel (SP) | | | 102.5 | |
| | | | | | Tan Sand w/Caliche (SP) | | | 100.0 | |
| 25 | | | 100 | J-6, J-7 | 45/6.00", 55/6.00" | | | 96.0 | |
| | | | | | Yellow and Light Tan Sand and Gravel w/Clayey Sand Lenses (SP) | | | 95.5 | |
| 30 | | | 60 | J-7, J-8 | Light Tan and Tan Sandy Clay w/ Clayey Sand Layers, Caliche Nodules, and Black Specks (CL) | | | | |
| | | | | | CONTINUED | | | | |

LOG OF BORING
FOR
COLETO CREEK POWER STATION

Sheet 2 of 3

DATE: May 15, 1975

BORING NO. SY-1

PROJECT LOCATION: Fannin, Texas

TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|------------|--|--------------|----------------|-----------|-------------|
| | | | | | Light Tan and Tan Sandy Clay w/ Clayey Sand Layers, Caliche Nodules, and Black Specks (CL) | | | 93.5 | |
| 35 | | | | S-2 | Light Tan Clayey Sand w/Light Tan Sand Layers, Yellow Streaks, and Caliche Gravel (SC) | | | 86.5 | |
| 40 | | | 64 | J-9 | Light Tan Clayey Sand w/Caliche Nodules and Black Specks (SC) | | | 82.5 | |
| 45 | | | 49 | J-10, J-11 | Yellow and Light Tan Sandy Clay w/ Caliche Nodules and Black Specks (CL) | | | 80.5 | |
| | | | | | Light Tan Clayey Sand w/Sand Layers and Black Specks (SC) | | | 78.5 | |
| 50 | | | 100 | J-12 | Yellow and Light Tan Sandstone Light Tan Clayey Sand w/Sandstone 100/6.00" Lenses, Caliche Nodules, and Black Specks (SC) | | | 77.0 | |
| 55 | | | 100 | J-13 | Light Tan Sand w/Gravel, Clayey Sand Lenses, and Black Specks (SP) 45/6.00", 55/6.00" | | | 73.5 | |
| 60 | | | 63 | J-14 | Light Tan Clayey Sand w/Light Tan Sand, Caliche Particles, Yellow Streaks, and Black Specks (SC) | | | 66.5 | |
| CONTINUED | | | | | | | | | |

LOG OF BORING
FOR

Sheet 3 of 3

COLETO CREEK POWER STATION

DATE: May 15, 1975

BORING NO. SY-1

PROJECT LOCATION: Fannin, Texas

TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|---|--------|--------|------------------|------------|--|--------------|----------------|-----------|-------------|
| | | | | | Light Tan Clayey Sand w/Light Tan Sand, Caliche Particles, Yellow Streaks, and Black Specks (SC) | | | 62.5 | |
| 65 | | X | 50 | -J-15 | Light Tan Clay w/Tan Streaks, Calcium Pockets, and Black Specks (CH) | | | 56.5 | |
| 70 | | | | -S-3 | Light Tan and Tan Clay w/Black Specks (CH) | | | 55.4 | |
| 75 | | X | 42 | -J-16 | Light Tan and Tan Sandy Clay w/Black Specks (CL) | | | 50.0 | |
| Total Depth of Boring = 75.5 Feet | | | | | | | | | |
| <u>Notes:</u> | | | | | | | | | |
| Project No. 4857 | | | | | | | | | |
| Boring Started: May 15, 1975 1:30 p.m. | | | | | | | | | |
| Boring Completed: May 15, 1975 5:00 p.m. | | | | | | | | | |
| Driller: Joe Castleberry | | | | | | | | | |
| <u>Water Observations</u> | | | | | | | | | |
| <u>Date</u> <u>Time</u> <u>Depth</u> | | | | | | | | | |
| Advanced boring with drilling fluid from the ground surface down and it did not disperse. | | | | | | | | | |
| <u>Grout Record</u> | | | | | | | | | |
| Date: 5-16-75 8:00 a.m. to 10:00 a.m. | | | | | | | | | |
| W. C. = 1.5/1.0 Cu. Ft. Water/Sack | | | | | | | | | |
| Bentonite = 5.0%/Sack of Cement | | | | | | | | | |
| Volume Mixed = 12.0 Cu. Ft. | | | | | | | | | |
| Volume Used = 12.0 Cu. Ft. | | | | | | | | | |
| Cement 6 Sacks, Bentonite 1/2 Sack | | | | | | | | | |
| Grouting 2 Hours | | | | | | | | | |
| <u>Clearing</u> | | | | | | | | | |
| None | | | | | | | | | |
| B-132 | | | | | | | | | |

LOG OF BORING
FOR

Sheet 1 of 3

COLETO CREEK POWER STATION

DATE: May 16, 1975

BORING NO. SY-2

PROJECT LOCATION: Fannin, Texas

TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|------------------------------------|---|--------------|----------------|-----------|-------------|
| | | | | | Ground Surface Elevation=125.2 Ft. | | | | |
| 5 | | X | 33 | -J-1 | Tan Sandy Clay w/Red-Brown Streaks, Clayey Sand Lenses, and Black Specks (CL) | | | 121.2 | |
| | | | | -S-1 | Light Tan Sandy Clay w/Red Streaks, Clayey Sand Lenses, and Black Specks (CL) | | | 116.2 | |
| 10 | | X | 28 | -J-2 | Light Tan Clayey Sand w/Sand Lenses and Black Specks (SC) | | | 111.2 | |
| 15 | | X | 27 | -J-3 | Light Tan Clayey Sand w/Yellow Streaks, Sand Lenses, and Black Specks (SC) | | | 106.2 | |
| 20 | | | | | Light Tan Sand, Coarse-Grained, w/Gravel and Black Specks (SP) | | | | |
| 25 | | X | 100 | -J-4, 21/6.00", 40/6.00", 39/5.00" | | | | | |
| 30 | | X | 80 | -J-5 | Light Tan Sand w/Black Specks (SP) | | | 96.2 | |
| | | | | | CONTINUED | | | | |

B-133

LOG OF BORING
FOR
COLETO CREEK POWER STATION

Sheet 2 of 3

DATE: May 16, 1975

BORING NO. SY-2

PROJECT LOCATION: Fannin, Texas

TYPE: Core

LOCATION: See Plan

| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|---------------|--------|--------|---------------------|-------------------------|--|-----------------|-------------------|-----------|-------------|
| | | | | | Light Tan Sand w/Black Specks (SP) | | | 92.2 | |
| 35 | | X | 100 | J-6, 43/6.00", 57/6.00" | Light Tan Clay w/Black Specks and Caliche Nodules (CL) | | | 88.2 | |
| 40 | | X | 100 | J-7, 28/6.00", 72/5.00" | Light Tan Sandy Clay w/Yellow Streaks, Black Specks, and Calcium Pockets (CL) | | | 81.2 | |
| 45 | | X | 62 | J-8 | Light Tan Clayey Sand w/Yellow Streaks, Black Specks, and Caliche Nodules (SC) | | | 76.2 | |
| 50 | | X | 100 | J-9, 27/6.00", 73/4.00" | Light Gray Clay w/Tan Streaks, Black Specks, and Caliche Nodules (CH) | | | 73.2 | |
| | | | | | Yellow and Light Tan Sandstone | | | 72.2 | |
| 55 | | X | 100 | J-10, 100/5.00" | Light Tan Sand w/Gravel and Sandstone Lenses (SP) | | | 66.2 | |
| 60 | | X | 100 | J-11, 100/4.00" | Light Gray and Light Tan Sand w/Yellow Streaks and Caliche Particles (SP) | | | | |
| CONTINUED | | | | | | | | | |

B-134

LOG OF BORING
FOR

Sheet 3 of 3

COLETO CREEK POWER STATION

DATE: May 16, 1975

BORING NO. SY-2

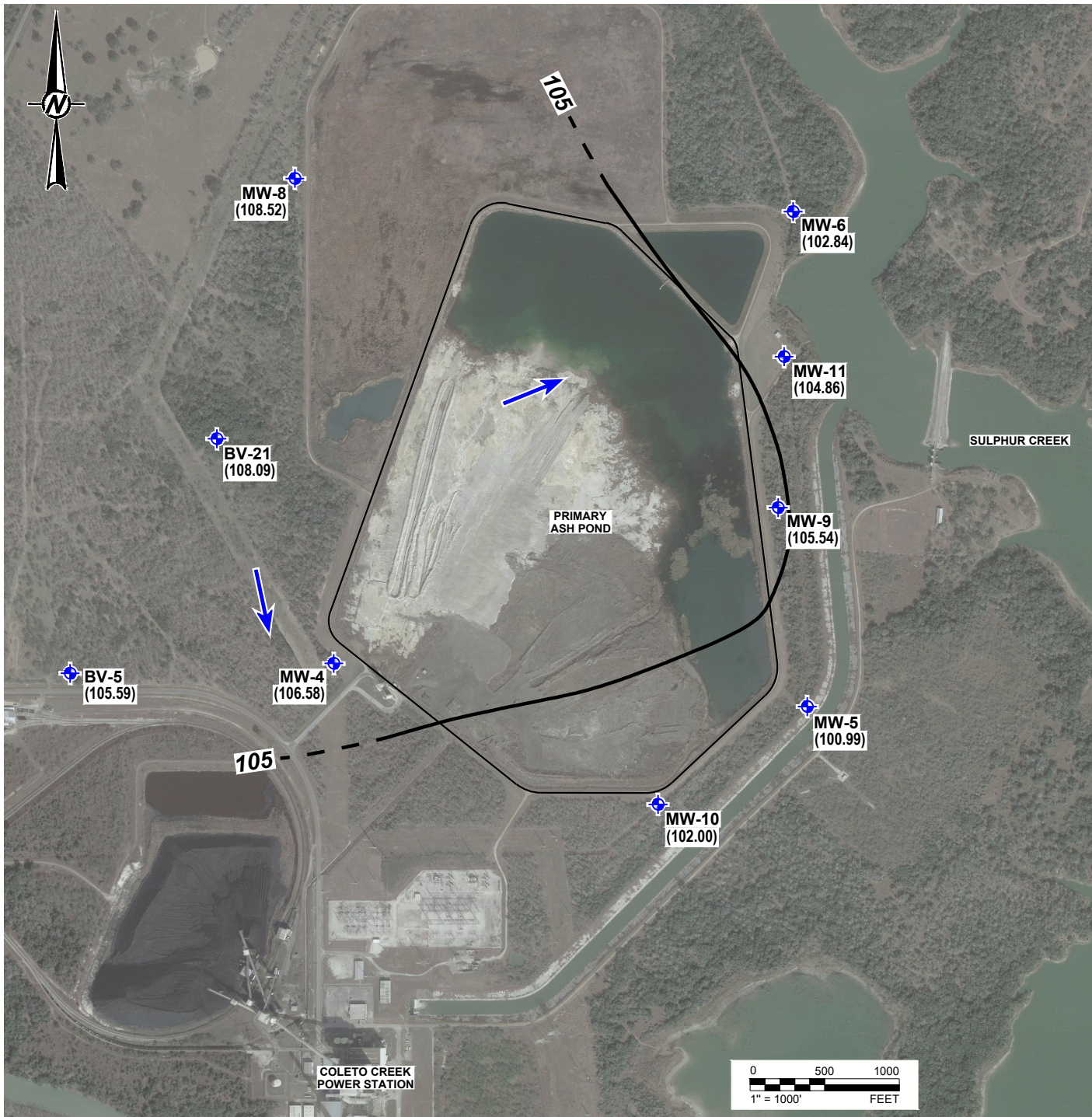
PROJECT LOCATION: Fannin, Texas

TYPE: Core




LOCATION: See Plan

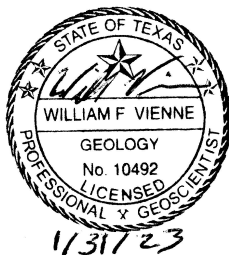
| DEPTH FEET | SYMBOL | SAMPLE | N-BLOWS PER FOOT | Sample No. | MATERIAL DESCRIPTION | CORE DRILLED | CORE RECOVERED | ELEVATION | DEPTH SCALE |
|------------|--------|--------|------------------|------------------|---|--------------|----------------|--------------|-------------|
| 65 | | | 100 | -J-12, 100/6.00" | Light Gray and Tan Sand w/Yellow Streaks and Caliche Particles (SP) | | | 61.2 | |
| | | | | | Light Tan Clayey Sand w/Black Specks and Calcium Pockets (SC) | | | 57.2 | |
| 70 | | | | -S-2 | Light Tan Clay w/Sand Lenses, Tan Streaks, and Black Specks (CH) | | | | |
| 75 | | | 50 | -J-13 | Light Tan Sandy Clay w/Light Gray and Tan Streaks, Caliche Particles, and Black Specks (CL) | | | 51.2 49.7 | |
| 80 | | | | | Total Depth of Boring = 75.5 Feet | | | | |
| | | | | | <u>Notes:</u> Project No. 4857 Boring Started: 5-16-75 10:00 a.m. Boring Completed: 5-16-75 4:00 p.m. Driller: Joe Castleberry | | | | |
| | | | | | <u>Water Observations</u> | | | | |
| | | | | | <u>Date</u> <u>Time</u> <u>Depth</u> Drilling fluid was used from the ground surface down and it did not disperse. | | | | |
| | | | | | <u>Grout Record</u> | | | | |
| | | | | | Date: 5-19-75 8:00 a.m. to 11:00 a.m. W. C. = 1.5/1.0 Cu. Ft. Water/Sack Bentonite = 5.0%/Sack of Cement Volume Mixed = 14.0 Cu. Ft. Volume Used = 14.0 Cu. Ft. Cement 7 Sacks, Bentonite 1/2 Sack Grouting = 3 Hours | | | | |
| | | | | | <u>Clearing</u> 1-1/5 Hours | | | | |
| | | | | | B-135 | | | | |

APPENDIX B
2022 Groundwater Potentiometric Surface Maps



LEGEND

-  CCR MONITORING WELL
- (113.02)** GROUNDWATER POTENTIOMETRIC SURFACE (FT MSL)
-  GROUNDWATER POTENTIOMETRIC SURFACE CONTOUR (C.I. = 5 FT)
-  INFERRED DIRECTION OF GROUNDWATER FLOW



CLIENT
LUMINANT

PROJECT
**COLETO CREEK POWER STATION
FANNIN, TEXAS**

TITLE
**PRIMARY ASH POND
POTENTIOMETRIC SURFACE MAP
MAY 25, 2022**




| | | |
|--|------------|------------|
| CONSULTANT | YYYY-MM-DD | 2022-12-20 |
|  | DESIGNED | TNB |
| | PREPARED | TNB |
| | REVIEWED | JJ |
| | APPROVED | WV |

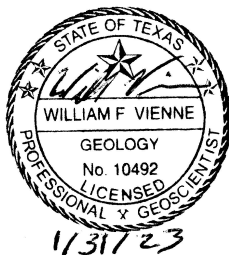
REFERENCE(S)
APPENDIX E, Revision 2, October 10, 2023
BASE MAP TAKEN FROM GOOGLE EARTH, MAP DATE: JANUARY 15, 2021.

PROJECT NO. 31404097.009
REV. 0
FIGURE 1



LEGEND

-  CCR MONITORING WELL
- (113.02)** GROUNDWATER POTENTIOMETRIC SURFACE (FT MSL)
-  GROUNDWATER POTENTIOMETRIC SURFACE CONTOUR (C.I. = 5 FT)
-  INFERRED DIRECTION OF GROUNDWATER FLOW



CLIENT
LUMINANT

PROJECT
**COLETO CREEK POWER STATION
FANNIN, TEXAS**

TITLE
**PRIMARY ASH POND
POTENTIOMETRIC SURFACE MAP
SEPTEMBER 20, 2022**

CONSULTANT



| | |
|------------|------------|
| YYYY-MM-DD | 2023-01-10 |
| DESIGNED | AJD |
| PREPARED | AJD |
| REVIEWED | WFV |
| APPROVED | WFV |

REFERENCE(S)
APPENDIX E, Revision 2, October 10, 2023
BASE MAP TAKEN FROM GOOGLE EARTH, MAP DATE: JANUARY 15, 2021.

PROJECT NO.
31404097.009

REV.
0

FIGURE
2

REPORT

Groundwater Monitoring Plan - Revision 1

*Coleto Creek Power Station - Primary Ash Pond
Fannin, Texas*

Submitted to:

Coleto Creek Power

Submitted by:

WSP GOLDER

1601 S MoPac Expressway

Suite 325D

Austin, Texas, USA 78746

+1 737 703 3900

31404097.007

November 2022

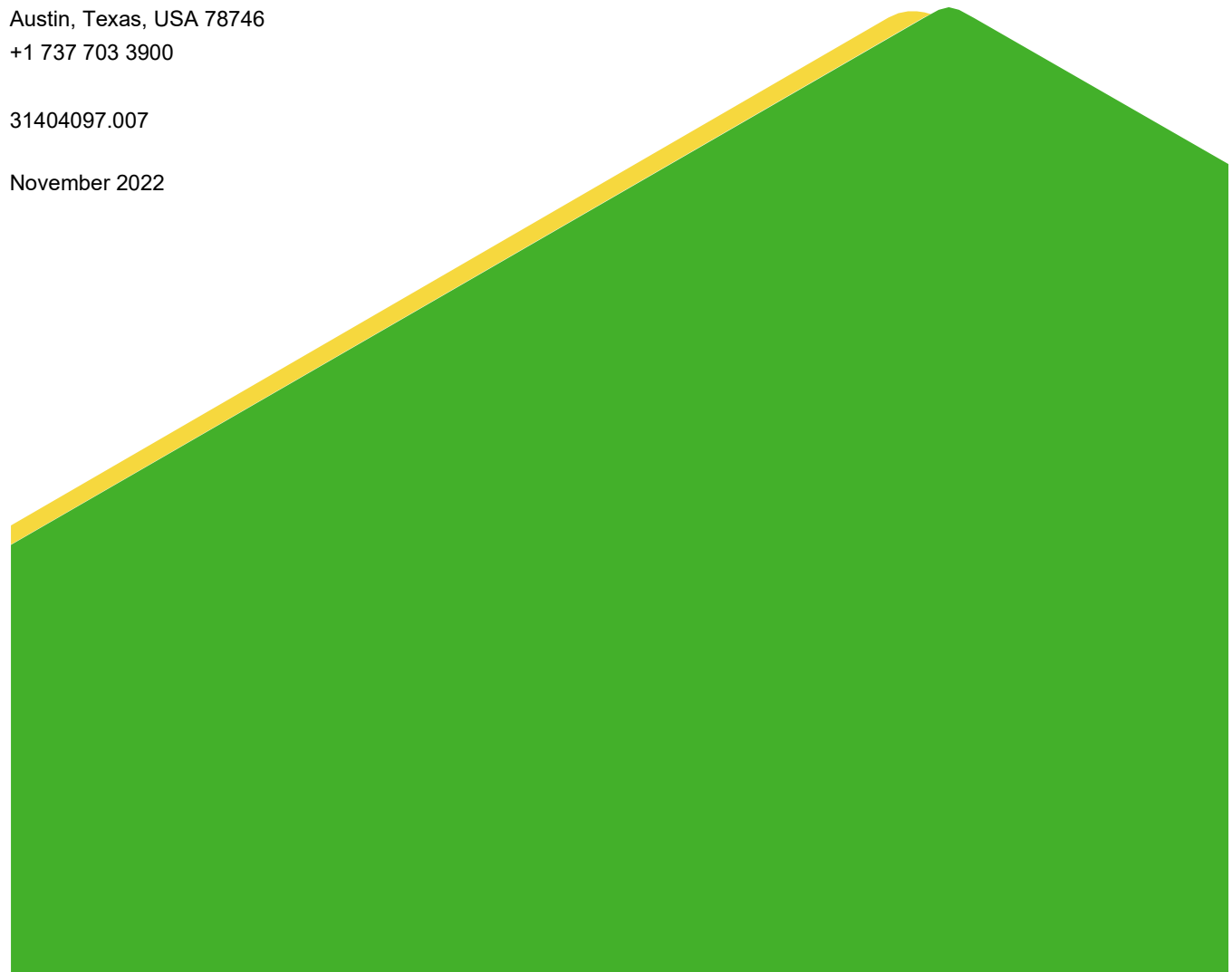


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- Figure 2 Site Plan

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- Appendix A CCR Monitoring Well Logs

DOCUMENT REVISION RECORD

| Issue No. | Date | Details of Revisions |
|-------------------|---------------|---|
| Revision 0 | January 2022 | Original Document |
| Revision 1 | November 2022 | Signed/sealed report and added professional geoscientist seal to figures that contain geological interpretations (e.g., boring logs), addressed sample shipment and quality assurance/quality control procedures, specified that the rate and direction of groundwater flow will be determined each sampling event, provided additional information on the statistical methods used to develop background values and evaluate sample data, specified that Alternate Source Demonstrations must be certified by a professional engineer, and updated groundwater protection standard information for cobalt, lithium, molybdenum |

1.0 INTRODUCTION

Coletto Creek Power operates the Coletto Creek Power Station (Coletto Creek), a lignite-fired power plant located in Fannin, Goliad County, Texas (the Site) (Figure 1). CCRs including fly ash and bed ash are generated as part of power plant operations. The CCRs are managed/disposed in the Primary Ash Pond (PAP) onsite or are transported offsite for disposal/beneficial reuse by third-parties.

The CCR Rule (40 CFR 257 Subpart D - *Standards for the Receipt of Coal Combustion Residuals in Landfills and Surface Impoundments*) has been promulgated by the EPA to regulate the management and disposal of CCRs as solid waste under Resource Conservation and Recovery Act (RCRA) Subtitle D. The CCR Rule establishes national minimum criteria for existing and new CCR landfills, existing and new CCR surface impoundments, and lateral expansions to landfills/impoundments. The PAP is considered an “existing surface impoundment” under 40 CFR 257.53.

A groundwater monitoring plan was previously developed for the Site in accordance with Sections 257.90 through 257.95 of the CCR Rule. The CCR groundwater monitoring system at the Site was certified by a professional engineer in accordance with Section 257.91 of the CCR Rule as part of a separate report. This revised groundwater monitoring plan updates and replaces the previous groundwater monitoring plan.

1.1 CCR Unit Groundwater Monitoring Applicability

Section 257.90 of the CCR Rule requires that existing CCR landfills and surface impoundments be in compliance with the following groundwater monitoring requirements:

- Install a groundwater monitoring system as required under Section 257.91;
- Develop a groundwater sampling and analysis program to include selection of the statistical procedures to be used for evaluating groundwater monitoring data as required under Section 257.93;
- Initiate a detection monitoring program to include obtaining a minimum of eight independent samples for each background and downgradient monitoring well as required under Section 257.94; and
- Begin evaluating the groundwater monitoring data for statistically significant increases over background levels for the constituents listed in Appendix III of this part as required under Section 257.94.

Once a groundwater monitoring system and groundwater monitoring program has been established at the CCR unit, the owner or operator must conduct groundwater monitoring and, if necessary, corrective action throughout the active life and post-closure care period of the CCR unit. In the event of a release from a CCR unit, the owner or operator must take all necessary measures to control the source(s) of releases so as to reduce or eliminate, to the maximum extent feasible, further releases of contaminants into the environment.

For existing CCR landfills and surface impoundments, the owner or operator must prepare an annual groundwater monitoring and corrective action report to document the status of the groundwater monitoring and corrective action program for the CCR unit for the previous calendar year.

1.2 Groundwater Sampling and Analysis Requirements

The CCR Rule establishes groundwater sampling and analysis criteria that are designed to create consistency and ensure that monitoring results provide accurate representations of groundwater quality at the CCR groundwater monitoring wells. A sampling and analysis program must be developed for each unit that includes procedures and techniques for sample collection, sample preservation and shipment, analytical procedures, chain of custody control, and quality assurance and quality control. Depending on the constituents and concentrations detected, groundwater monitoring at each CCR unit may consist of detection monitoring (Section 257.94) only or a combination of detection monitoring and assessment monitoring (Section 257.95). Selected technical groundwater sampling and analysis criteria are described in detail below; however, the complete CCR Rule should be referenced for notification requirements and other criteria.

1.2.1 Groundwater Elevations

Groundwater elevations must be measured in each well immediately prior to purging, each time groundwater is sampled.

1.2.2 General Groundwater Analytical Requirements

The CCR groundwater monitoring program must include sampling and analytical methods that are appropriate for groundwater sampling and that accurately measure hazardous constituents and other monitoring parameters in groundwater samples. The EPA publication *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846)*, is EPA'S official compendium of analytical and sampling methods that have been evaluated and approved for use in complying with the RCRA

regulations (EPA, 2015).

Groundwater monitoring under the CCR Rule includes analyses for inorganic parameters and metals. All metals analyses must be reported as “total recoverable metals” to capture both the particulate fraction and dissolved fraction of metals in the groundwater. The CCR Rule stipulates that groundwater samples cannot be field filtered prior to analysis.

1.2.3 Background Groundwater Quality Determination

Background groundwater quality must be established in a hydraulically upgradient or background well(s) for each of the groundwater constituents required in the detection monitoring or assessment monitoring program that applies to the CCR unit. Background groundwater quality may be established at wells that are not located hydraulically upgradient from the CCR unit if the samples accurately represent the quality of background groundwater that has not been affected by leakage from the CCR unit.

1.2.4 Detection Monitoring Requirements

Groundwater detection monitoring must be performed at each CCR unit (CCR Rule Section 257.94). The following constituents must be included in the detection monitoring program (from Appendix III to the CCR Rule):

- Boron
- Calcium
- Chloride
- Fluoride
- pH
- Sulfate
- Total Dissolved Solids (TDS)

The monitoring frequency for these constituents must be at least semi-annual during the active life of the CCR unit and post-closure period. The reported concentrations of the detection monitoring constituents must be compared to the respective CCR unit background concentration developed for each constituent. If a statistically significant increase over background levels is determined for one or more of the constituents listed above at any monitoring well at the CCR unit waste boundary, within 90 days the owner or operator must:

- Establish an assessment monitoring program as described in Section 257.95 of the Rule, or
- Demonstrate that a source other than the CCR unit caused the statistically significant increase over background levels for a constituent or that the statistically significant increase resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality. If a successful demonstration is completed within the 90-day period, the owner or operator of the CCR unit may continue with the detection monitoring program.

1.2.5 Assessment Monitoring Requirements

Assessment monitoring is required under the CCR Rule whenever a statistically significant increase over background levels has been detected for one or more of the detection monitoring constituents listed above (CCR Rule Section 257.95). The following constituents must be included in the assessment monitoring program (from Appendix IV to the CCR Rule):

- Antimony
- Arsenic
- Barium
- Beryllium
- Cadmium
- Chromium
- Cobalt
- Fluoride
- Lead
- Lithium
- Mercury
- Molybdenum
- Selenium
- Thallium
- Radium 226 and 228 combined

Within 90 days of triggering an assessment monitoring program, and annually thereafter, the owner or operator of the CCR unit must sample and analyze the groundwater for all assessment monitoring constituents (Appendix IV) listed above. At least one sample must be collected from each well associated with the CCR unit.

Within 90 days of obtaining the results from the initial assessment monitoring sampling event, the owner or operator of the CCR unit must resample all wells associated with the CCR unit, conduct analyses for all detection monitoring parameters (Appendix III) and for those assessment monitoring constituents (Appendix IV) that have been detected as part of assessment monitoring. At least one

sample must be collected from each well associated with the CCR unit. This monitoring must be performed on at least a semi-annual basis thereafter. The owner or operator of a CCR unit may demonstrate the need for an alternative monitoring frequency for repeated sampling and analysis for these constituents during the active life and the post-closure care period based on the availability of groundwater. If there is not adequate groundwater flow to sample wells semi-annually, the alternative frequency shall be no less than annual.

Within 90 days of obtaining the results from the initial assessment monitoring sampling event, groundwater protection standards (GWPSs) must be established for all assessment monitoring constituents (Appendix IV) detected in the CCR unit monitoring wells. The GWPS shall be:

- For constituents for which a federal maximum contaminant level (MCL) has been established under 40 CFR 141.62 and 141.66, the MCL for that constituent; or
- For constituents for which an MCL has not been established, the background concentration or approved regional screening level for the constituent established in accordance with CCR Rule Section 257.91; or
- For constituents for which the background level is higher than the MCL, the background concentration.

Following are the GWPSs have been established for the assessment monitoring constituents (Appendix IV) at the Site:

| Constituent | GWPS (mg/L) |
|--------------------|--------------------|
| Antimony | 0.006 |
| Arsenic | 0.128 |
| Barium | 2.0 |
| Beryllium | 0.004 |
| Cadmium | 0.005 |
| Chromium | 0.10 |
| Cobalt | 0.0499 |
| Fluoride | 4.0 |
| Lead | 0.015 |
| Lithium | 0.04 |
| Mercury | 0.002 |
| Molybdenum | 0.10 |
| Selenium | 0.05 |

| Constituent | GWPS (mg/L) |
|-------------------------|------------------------|
| Thallium | 0.002 |
| Radium 226/228 Combined | 5 pCi/L* |

* pCi/L = picocuries per liter

If the concentrations of all detection monitoring constituents (Appendix III) and assessment monitoring constituents (Appendix IV) are shown to be statistically at or below background values for two consecutive sampling events, the owner or operator may return to performing only detection monitoring of the CCR unit. If the concentrations of any detection monitoring constituents (Appendix III) and assessment monitoring constituents (Appendix IV) are shown to be statistically above background values, but all concentrations are below their respective GWPS, the owner or operator must continue assessment monitoring of the CCR Unit.

Within 90 days of finding that any of the assessment monitoring constituents (Appendix IV) have been detected at a statistically significant level exceeding their respective GWPS, the owner or operator of the CCR unit must either:

- Initiate an assessment of corrective measures for the CCR unit (CCR Rule Section 257.96); or
- Demonstrate that a source other than the CCR unit caused the contamination, or that the statistically significant increase resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality. If a successful demonstration is made, the owner or operator must continue assessment monitoring. If a successful demonstration has not been made at the end of the 90 day period, the owner or operator of the CCR unit must initiate an assessment of corrective measures for the CCR unit.

If one or more assessment monitoring constituents (Appendix IV) are detected at statistically significant levels above their respective GWPS, the owner or operator of the CCR unit must characterize the nature and extent of the release. Characterization of the release includes the following minimum measures:

- Install additional monitoring wells necessary to define the contaminant plume(s);
- Collect data on the nature and estimated quantity of material released including specific information on the assessment monitoring constituents (Appendix IV) and the levels at which they are present in the material released;
- Install at least one additional monitoring well at the facility boundary in the direction of contaminant migration and sample this well for all detection monitoring parameters (Appendix

III) and for those assessment monitoring constituents (Appendix IV) that have been detected as part of assessment monitoring. This monitoring must be performed on at least a semi-annual basis thereafter.

- Sample all CCR unit wells for all detection monitoring parameters (Appendix III) and for those assessment monitoring constituents (Appendix IV) that have been detected as part of assessment monitoring. This monitoring must be performed on at least a semi-annual basis thereafter.

If an assessment of corrective measures is required as a result of assessment monitoring, and if the CCR unit being monitored is considered an existing unlined CCR surface impoundment under the CCR Rule, then the CCR unit is required to retrofit or close in accordance with the applicable parts of the CCR Rule.

1.3 Groundwater Statistical Evaluation Procedures

Statistical analysis of the groundwater monitoring data is required as part of detection monitoring and assessment monitoring under the CCR Rule. One of the following statistical methods must be used to evaluate groundwater monitoring data for each monitored constituent:

- A parametric analysis of variance followed by multiple comparison procedures to identify statistically significant evidence of contamination. The method must include estimation and testing of the contrasts between each compliance well's mean and the background mean levels for each constituent; or
- An analysis of variance based on ranks followed by multiple comparison procedures to identify statistically significant evidence of contamination. The method must include estimation and testing of the contrasts between each compliance well's median and the background median levels for each constituent; or
- A tolerance or prediction interval procedure in which an interval for each constituent is established from the distribution of the background data. The level of each constituent in each compliance well is compared to the upper tolerance or prediction limit established from the background data; or
- A control chart approach that gives control limits for each constituent; or
- Another statistical test method that meets the performance standards.

Any statistical method chosen must comply with the following performance standards:

- The statistical method used to evaluate groundwater monitoring data shall be appropriate for the distribution of constituents. Probability distributions of data values shall use parametric methods, and non-probability distributions of data values shall use non-parametric methods. If

the distribution of the constituents is shown to be inappropriate for a probability theory test, the data must be transformed or a distribution-free (non-parametric) theory test must be used. If the distributions for the constituents differ, more than one statistical method may be needed;

- If an individual well comparison procedure is used to compare an individual compliance well constituent concentration with background constituent concentrations or a GWPS the test shall be done at a Type I error level no less than 0.01 for each testing period. If a multiple comparison procedure is used, the Type I experiment wise error rate for each testing period shall be no less than 0.05; however, the Type I error of no less than 0.01 for individual well comparison must be maintained. This performance standard does not apply to tolerance intervals, prediction intervals, or control charts;
- If a control chart approach is used to evaluate groundwater monitoring data, the specific type of chart and its associated parameter values shall be such that this approach is at least as effective as any other approach in this section for evaluating groundwater data. The parameter values shall be determined after considering the number of samples in the background database, the data distribution, and the range of the concentration values for each constituent of concern;
- If a tolerance interval or a prediction interval is used to evaluate groundwater monitoring data, the levels of confidence and, for tolerance intervals, the percentage of the population that the interval must contain, shall be such that this approach is at least as effective as any other approach in this section for evaluating groundwater data. These parameters shall be determined after considering the number of samples in the background database, the data distribution, and the range of the concentration values for each constituent of concern;
- The statistical method must account for data below the limit of detection with one or more statistical procedures that shall be at least as effective as any other approach in this section for evaluating groundwater data. Any practical quantitation limit that is used in the statistical method shall be the lowest concentration level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions that are available to the facility; and
- If necessary, the statistical method must include procedures to control or correct for seasonal and spatial variability as well as temporal correlation in the data.

The owner/operator of the CCR unit must determine if there has been a statistically significant increase over background (detection monitoring) or GWPSs (assessment monitoring) for each constituent required in the particular groundwater monitoring program that applies to the CCR unit. The determination of statistical increase over GWPSs for each constituent at each monitoring well must be made within 90 days after completing sampling and analysis.

2.0 GROUNDWATER MONITORING PROCEDURES

This section describes groundwater sampling and analysis procedures for monitoring the CCR unit wells to comply with the requirements of 40 CFR 257.90 - 257.95 of the CCR Rule.

2.1 Primary Ash Pond Groundwater Monitoring System

The CCR groundwater monitoring system at the Primary Ash Pond consists of the following monitoring wells:

| Upgradient/Background Wells | Downgradient Wells |
|------------------------------------|---------------------------|
| BV-5 | MW-4 |
| BV-8 | MW-5 |
| BV-21 | MW-6 |
| | MW-9 |
| | MW-10 |
| | MW-11 |

A detailed Site Plan showing the locations of the CCR monitoring wells is provided on Figure 2. Boring logs for the wells are provided in Appendix A.

2.2 Groundwater Sampling Procedures

2.2.1 Equipment Assembly and Preparation

Activities that occur during groundwater sampling are summarized as follows:

- pre-arrangement of sample analytical requests with analytical testing laboratory;
- assembly and preparation of sampling equipment and supplies;
- groundwater sampling;
- water-level measurements;
- well purging;
- field parameter measurements;
- sample collection;
- sample preservation;
- sample labeling;
- completion of sample records;
- completion of chain-of-custody records; and
- sample shipment.

Prior to each sampling event, equipment to be used is assembled, properly cleaned and its operating condition verified. In addition, all record-keeping materials are prepared. Sampling procedures are conducted in general accordance with EPA SW-846 methods.

Decontamination of all non-disposable or non-dedicated field measurement, purging, and sampling equipment are performed for each sampling event before any purging/sampling activities begin, after each well is sampled, and at the end of the sampling event. Decontamination procedures are summarized below:

- (1) Wash equipment with low-residue soap and/or detergent solution.
- (2) Rinse with distilled water; and
- (3) Repeat steps (1) and (2) above, as necessary.

2.2.2 General Groundwater Sampling Procedures

Prior to collecting samples, each well is inspected for signs of damage to the well protective casing and well pad. Each field instrument is calibrated according to the manufacturer's instructions prior to use.

Special care should be exercised to prevent contamination of the groundwater and extracted samples during the sampling activities. The primary way in which such contamination can occur is contact with improperly cleaned equipment. To prevent such contamination, all non-dedicated sampling equipment is thoroughly cleaned before and between uses at different sampling locations. In addition to the use of properly cleaned equipment, a new pair of disposable latex (or similar) gloves is worn for each well.

2.2.3 Groundwater Level Measurements

Groundwater levels are measured prior to purging the wells. Using a pre-cleaned water level meter, the groundwater surface is measured from the casing datum to the nearest 0.01-foot. Total depth measurements are also collected on, at least, an annual basis. The rate and direction of groundwater flow should be determined for each groundwater monitoring event.

2.2.4 Well Purging and Sampling

Well purging and sampling is conducted using either a submersible pump or peristaltic pump in accordance with standard low flow sampling procedures. The sampler withdraws water in a manner that minimized stress (drawdown) to the system to the extent practicable. When the pump intake is located within the screened interval, the water pumped is drawn in directly from the formation with little mixing of casing water or disturbance to the sampling zone. Thus, sample results are more representative of the constituents present in the groundwater.

Purging rates during sample collection are generally performed at 0.5 liters per minute (L/min) or less. Field parameters (pH, temperature, conductivity and turbidity) are measured to evaluate when the well is adequately purged. Turbidity in the samples should be minimized as much as possible. By using minimal pumping rates, dedicated equipment whenever possible, and positioning the intake for the sample tubing or submersible pump off of the bottom of the well.

For groundwater samples, at least three field measurements should be taken during the course of purging the well. If the parameters have not stabilized at that time, field measurements and purging will continue until two consecutive readings have stabilized to within the following limits:

- Temperature: +/-1° C
- pH: +/-0.1 pH units
- Specific conductance: +/-10%
- Turbidity: +/- 10%

Sample extraction is accomplished by using the pump that was previously used to purge the well. The sample bottle is filled directly from the pump line. The pumping rate and parameter measurements are recorded on groundwater sampling forms in the field. If a well goes dry during purging, sampling is performed after the well has sufficiently recharged to allow sample collection.

Groundwater samples will not be filtered in the field prior to collection in accordance with Section 257.93(i) of the CCR Rule.

2.2.5 Container, Labels, and Shipment

Samples are collected in laboratory-supplied containers. The following information is legibly and indelibly written on the label:

- project identification;
- sample identification;
- name or initials of collector;
- date and time of collection;
- analysis requested; and
- sample preservative, if applicable.

After the samples are collected, the sample containers are placed in a cooler or similar container, preserved with ice, and shipped to the laboratory for analysis.

2.2.6 Chain-of-Custody Control

After samples are collected, chain-of-custody procedures are followed to establish a written record concerning sample movement between the sampling site and the testing laboratory. Each shipping container has a chain-of-custody form completed by the sampling personnel packing the samples. The chain-of-custody form for each container is completed and sealed in the shipping container.

2.3 Analytical Procedures

The laboratory analytical methods utilized for the analysis of detection monitoring and assessment monitoring programs are appropriate and commonly utilized EPA methodologies, or other similar standard methodologies. Typical methodologies used to analyze the detection and assessment program constituents are presented below:

Detection Monitoring Program (Appendix III Constituents)

- Boron and calcium by EPA Method SW6020;
- Chloride, fluoride, and sulfate by EPA Method E300;
- pH by Standard Method M4500-H + B (field measurement); and
- TDS by Standard Method M2540.

Assessment Monitoring Program (Appendix IV Constituents)

- Antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, lead, lithium, molybdenum, selenium, and thallium by EPA Method SW6020;
- Fluoride EPA Method E300;
- Mercury by EPA Method SW7470; and
- Radium 226 and 228 by EPA Methods 904.0/SW9320 Modified and 903.1 Modified.

All metals analyses shall be reported as “total recoverable metals” in accordance with Section 257.93(1) of the CCR Rule. Filtering of samples prior to analysis is not permitted.

2.3.1 Data Quality Assurance/Quality Control

A quality assurance/quality control (QA/QC) program will be implemented to confirm the validity of the analytical results. Laboratory QC samples will include method blanks, laboratory control samples, and matrix spike/matrix spike duplicates. Field QC samples will include one field duplicate per sampling event. The selected laboratory must have in place documented quality assurance protocols and quality control checks to demonstrate the laboratory’s procedures and practices are consistent with the National Environmental Laboratory Accreditation Conference (NELAC) standards. Potential issues regarding the quality of the data should be evaluated through the examination of:

- The project objectives;
- Laboratory review checklist and associated exceptions report;
- The reportable data; and
- The field notes and data associated with the sampling event(s).

In the case where quality control criteria are outside applicable limits, a summary must be presented that indicates the affected samples, the quality control parameter reviewed, the qualifiers and bias code(s) applied to the data point, and the determination made concerning the usability of data.

3.0 STATISTICAL EVALUATION PROCEDURES

The following statistical evaluation approaches were selected to demonstrate groundwater compliance under the CCR Rule:

- Use of interwell data evaluations, which compare new sample data to data from upgradient or background monitoring wells.
- Use of upper prediction limits (UPLs) to develop site-specific background concentrations for all Appendix III and Appendix IV constituents. This approach is a common statistical method used to evaluate groundwater compliance for Subtitle D landfill facilities and is one of the approved options for groundwater quality data statistical evaluation under the CCR Rule.
- After every detection monitoring event, Appendix III constituent concentrations from each well are compared to background UPLs to ascertain if a statistically significant increase above background exists. Background UPLs are based on a 1-of-2 resampling approach, meaning that if zero or one concentration measurement from a series of two independent samples collected from a well do not exceed the appropriate UPL, then a statistically significant increase over background has not occurred at a CCR unit.
- If in assessment monitoring, the 95% lower confidence limit of the mean (LCL) is calculated after each assessment monitoring event for each Appendix IV constituent. The set of data used to calculate LCLs is based on current and historical constituent concentrations. A statistically significant increase over the GWPS has occurred at a CCR unit when the LCL for at least one assessment monitoring constituent at a well is greater than the appropriate GWPS.

The statistical evaluation procedures proposed for the groundwater data conforms with the Rule requirements described in Section 1.3, as well as the Statistical Analysis Plan for the Site (Golder, 2022), EPA's *Unified Guidance: Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities* (EPA, 2009), and the American Society for Testing and Materials (ASTM) standard D6312-17, *Developing Appropriate Statistical Approaches for Groundwater Detection Monitoring Programs at waste Disposal Facilities* (ASTM, 2017).

Eight independent groundwater samples were evaluated for each Appendix III parameter at each well to statistically establish detection monitoring prediction limits. Eight independent groundwater samples were also evaluated for each Appendix IV parameter at each well to establish assessment monitoring GWPSs.

- For constituents for which a federal maximum contaminant level (MCL) has been established, the MCL for that constituent; or
- For constituents for which an MCL has not been established, the background concentration (prediction limit) or approved regional screening standard for the constituent; or

- For constituents for which the background level (prediction limit) is higher than the MCL, the background concentration (prediction limit) for the constituent.

4.0 DETECTION MONITORING DATA EVALUATION

CCR groundwater detection monitoring will be performed on a semi-annual basis during the active life of the CCR units and during the post-closure period. Each CCR monitoring well will be sampled for the following Appendix III constituents as part of the detection monitoring program:

- Boron
- Calcium
- Chloride
- Fluoride
- pH
- Sulfate
- Total Dissolved Solids (TDS)

Sampling and analytical procedures will be as described in previous sections of this plan.

After each detection monitoring event, the reported concentrations of the detection monitoring constituents at each well will be compared to the background concentration prediction limits developed for each constituent as described in Section 3 of this plan to ascertain if a statistically significant increase above background concentrations does or no does not exist. Possible outcomes from comparing the detection monitoring constituent concentrations in each well to their respective background concentration prediction limits are as follows:

- All detection monitoring constituent concentrations in each well are less than or equal to their respective background concentration prediction limits in the well; or
- One or more detection monitoring constituent concentrations in each well are above their respective background concentration prediction limits in the well.

4.1 No Statistically Significant Increase Over Background Concentrations

The background concentration prediction limits were developed based on a one-of-two resampling approach, meaning that if concentrations in at least one sample in a series of two independent samples collected from a well do not exceed their prediction limits, then a statistically significant increase over background concentrations has not occurred. This conclusion will be reached if the data indicate either of the following:

- All detection monitoring constituent concentrations in each well are less than or equal to their respective background concentration prediction limits; or
- One or more detection monitoring constituent concentration in any well is above the respective background concentration prediction limits. If this occurs, the well or wells with concentrations above the prediction limits will be resampled and analyzed for the detection monitoring constituent or constituents that exceed the prediction limits. If the resample indicates that the target detection monitoring constituent concentrations in the well or wells are less than or equal to their respective background concentration prediction limits, then it can be concluded that a statistically significant increase over background concentrations for all detection monitoring constituents does not exist, since concentrations in one sample of the two independent samples do not exceed their prediction limits.

If the groundwater monitoring data indicate that a statistically significant increase over background does not exist at the CCR wells, detection monitoring at all CCR wells will continue on a semi-annual basis.

4.2 Statistically Significant Increase Over Background Concentrations

If one or more detection monitoring constituent concentrations in any well is above the respective background concentration prediction limit in both the original detection monitoring sample and the resample, then a statistically significant increase over background concentrations for the target detection monitoring constituents can be concluded. If a statistically significant increase is indicated, within 90 days the owner/operator must:

- Establish an assessment monitoring program as described in this plan, or
- Demonstrate that a source other than the CCR unit caused the statistically significant increase over background levels for a constituent, or that the statistically significant increase resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality. The demonstration must be summarized in a report that is certified by a professional engineer. If a successful demonstration is completed within the 90-day period, the owner or operator of the CCR unit may continue with the detection monitoring program.

5.0 ASSESSMENT MONITORING DATA EVALUATION

CCR groundwater assessment monitoring will be performed at the groundwater monitoring system whenever a statistically significant increase over GWPS has been confirmed for one or more of the detection monitoring constituents listed in this plan. Within 90 days of triggering the assessment monitoring program, and annually thereafter, each CCR monitoring well in the groundwater monitoring system will be sampled for the following Appendix IV parameters as part of the assessment monitoring program:

- Antimony
- Arsenic
- Barium
- Beryllium
- Cadmium
- Chromium
- Cobalt
- Fluoride
- Lead
- Lithium
- Mercury
- Molybdenum
- Selenium
- Thallium
- Radium 226 and 228 combined

Sampling and analytical procedures will be as described in previous sections of this plan.

Within 90 days of obtaining the results from the initial assessment monitoring sampling event, all wells in the groundwater monitoring system will be resampled and analyzed for:

- All Appendix III detection monitoring parameters; and
- The Appendix IV assessment monitoring parameters that were detected as part of the assessment monitoring event.

This monitoring will be performed on at least a semi-annual basis thereafter, unless the owner/operator can demonstrate the need for an alternative monitoring frequency for repeated sampling and analysis for these constituents during the active life and the post-closure care period based on the availability of groundwater. If there is not adequate groundwater flow to sample wells semi-annually, the alternative frequency shall be no less than annual.

Within 90 days of obtaining the results from the initial assessment monitoring sampling event, GWPSs will be established for all Appendix IV assessment monitoring constituents that were detected in the groundwater monitoring system wells as follows:

- For constituents for which a federal maximum contaminant level (MCL) has been established, the MCL for that constituent; or
- For constituents for which an MCL has not been established, the background concentration or approved regional background levels for the constituent; or
- For constituents for which the background level is higher than the MCL, the background concentration for the constituent.

The 95% LCL of each Appendix IV constituent concentration at each well will be compared to the GWPSs established for each constituent to ascertain if a statistically significant increase above the GWPS does or does not exist.

5.1 No Statistically Significant Increase Over Groundwater Protection Standards

If the groundwater monitoring data indicate that a statistically significant increase over GWPS does not exist at the CCR wells, all wells in the groundwater monitoring system will be sampled on a semi-annual basis and analyzed for:

- All Appendix III detection monitoring parameters; and
- The Appendix IV assessment monitoring parameters that were detected as part of the initial assessment monitoring event.

This monitoring will be performed on at least a semi-annual basis unless the owner/operator can demonstrate the need for an alternative monitoring frequency for repeated sampling and analysis for these constituents during the active life and the post-closure care period based on the availability of groundwater.

If the concentrations of all Appendix III detection monitoring constituents and Appendix IV assessment monitoring constituents are shown to be statistically at or below background values for two consecutive assessment monitoring sampling events, assessment monitoring will be terminated and detection monitoring as described in this plan will resume. If the concentrations of any Appendix III detection monitoring constituents and Appendix IV assessment monitoring constituents are shown to be

statistically above background values, but all concentrations are below their respective GWPSs, assessment monitoring will continue.

5.2 Statistically Significant Increase Over Groundwater Protection Standards

If a statistically significant increase over GWPSs for any Appendix IV assessment monitoring constituent is confirmed, within 90 days of the initial assessment monitoring event, the owner/operator will either:

- Initiate an assessment of corrective measures for the CCR unit in accordance with CCR Rule Section 257.96; or
- Demonstrate that a source other than the CCR unit caused the contamination, or that the statistically significant increase resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality. The demonstration must be summarized in a report that is certified by a professional engineer. If a successful demonstration is made, the owner or operator must continue assessment monitoring. If a successful demonstration has not been made at the end of the 90 day period, the owner or operator of the CCR unit must initiate an assessment of corrective measures for the CCR unit.

If one or more Appendix IV assessment monitoring constituents are detected at statistically significant levels above their respective GWPS in any sampling event, and if a source other than the CCR unit cannot be demonstrated to have caused the contamination, a release from the CCR unit is likely and the nature and extent of the release will be further characterized as follows:

- Install additional monitoring wells necessary to define the contaminant plume(s);
- Collect data on the nature and estimated quantity of material released including specific information on the Appendix IV assessment monitoring constituents and the levels at which they are present in the material released;
- Install at least one additional monitoring well at the facility boundary in the direction of contaminant migration and sample this well for all Appendix III detection monitoring parameters and for those Appendix IV assessment monitoring constituents that have been detected as part of assessment monitoring. This monitoring must be performed on at least a semi-annual basis thereafter.
- Sample all CCR unit wells for all Appendix III detection monitoring parameters and for those Appendix IV assessment monitoring constituents that have been detected as part of assessment monitoring. This monitoring must be performed on at least a semi-annual basis thereafter.

6.0 REPORTING REQUIREMENTS

The results of the CCR groundwater monitoring program will be reported each year in an Annual Groundwater Monitoring and Corrective Action Report. The annual report will document the status of the groundwater monitoring and corrective action program, summarize key actions completed, describe any problems encountered, discuss actions to resolve the problems, and project key activities for the upcoming year. At a minimum, the Annual Groundwater Monitoring and Corrective Action Report will contain the following information:

- A map, aerial image, or diagram showing the CCR unit and all background (or upgradient) and downgradient monitoring wells, to include the well identification numbers, that are part of the groundwater monitoring program for the CCR unit;
- Identification of any monitoring wells that were installed or decommissioned during the preceding year, along with a narrative description of why those actions were taken;
- In addition to all the monitoring data obtained under CCR Rule Sections 257.90 through 257.98, a summary including the number of groundwater samples that were collected for analysis for each background and downgradient well, the dates the samples were collected, and whether the sample was required by the detection monitoring or assessment monitoring programs;
- A narrative discussion of any transition between monitoring programs (e.g., the date and circumstances for transitioning from detection monitoring to assessment monitoring in addition to identifying the constituent(s) detected at a statistically significant increase over background levels); and
- Other information required to be included in the annual report as specified in CCR Rule Sections 257.90 through 257.98.

The Groundwater Monitoring and Corrective Action Reports must be placed in the facility operating record no later than January 31 of the year following completion of the groundwater monitoring program from the preceding calendar year.

7.0 REFERENCES

ASTM, 2017. Standard Guide for Developing Appropriate Statistical Approaches for Groundwater Detection Monitoring Programs at Waste Disposal Facilities - D6312-17.

EPA, 2015. Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846). On-Line.

EPA, 2009. Unified Guidance Document: Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, EPA 530/R-09-007, March.

Golder Associates USA, Inc. (Golder), 2022. Statistical Analysis Plan, Revision No. 1, Coletto Creek Primary Ash Pond. November 16.

SIGNATURE PAGE

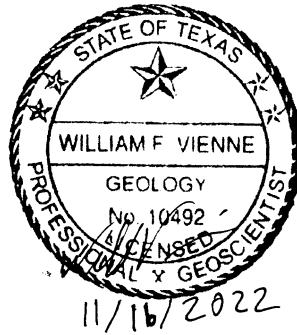
Golder Associates Inc., Member of WSP



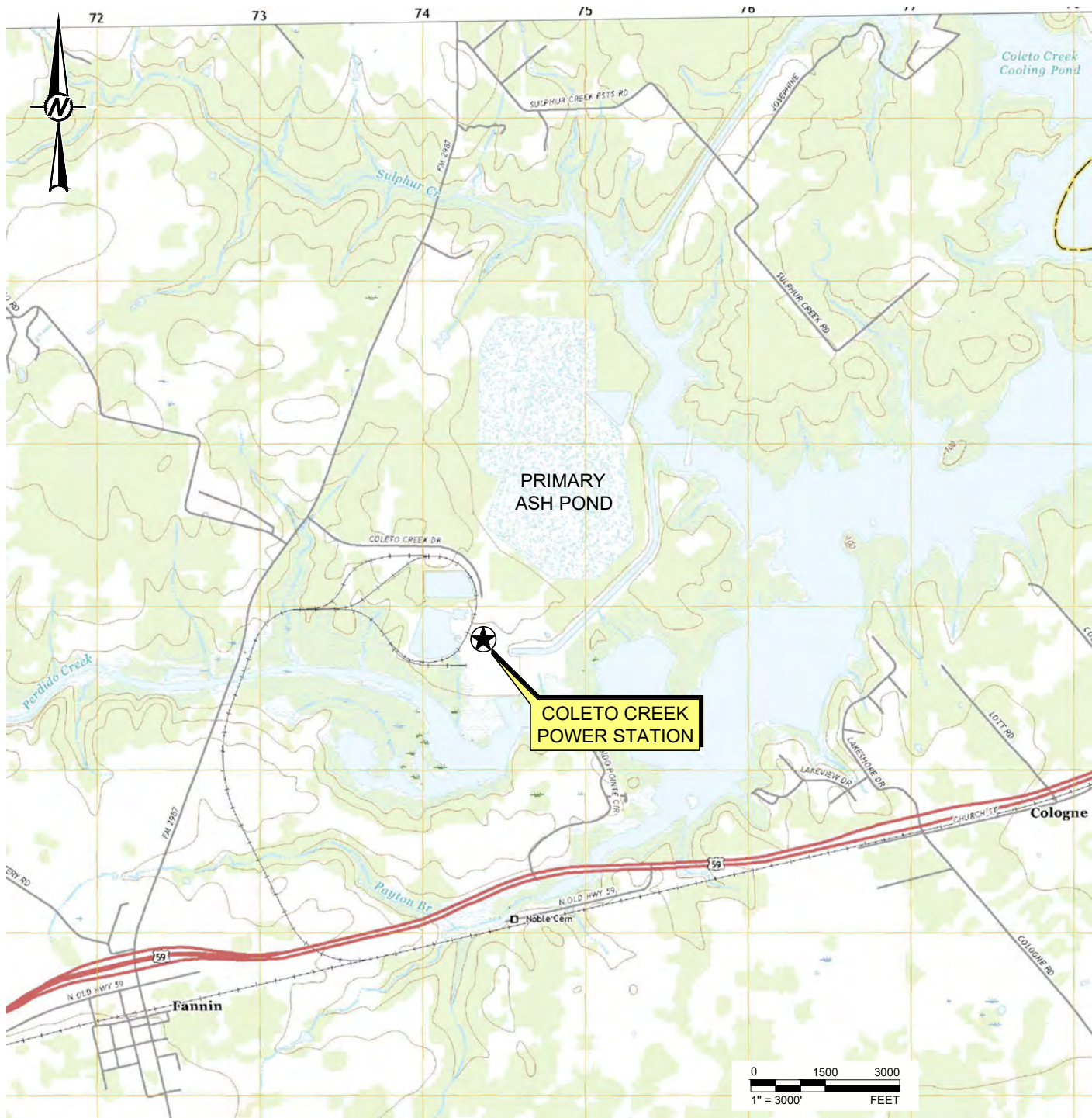
Patrick J. Behling
Principal Engineer



William F. Vienne
Senior Hydrogeologist



FIGURES



REFERENCE(S)
 BASE MAP TAKEN FROM USGS.GOV, FANNIN, TX 7.5 MIN. USGS QUADRANGLE DATED 2019.

CLIENT
 COLETO CREEK POWER LP

PROJECT
 COLETO CREEK POWER STATION
 FANNIN, TEXAS

TITLE
 SITE LOCATION MAP

| | | |
|-------------------|------------|------------|
| CONSULTANT | YYYY-MM-DD | 2021-12-07 |
| | DESIGNED | AJD |
| | PREPARED | AJD |
| | REVIEWED | WFV |
| | APPROVED | WFV |

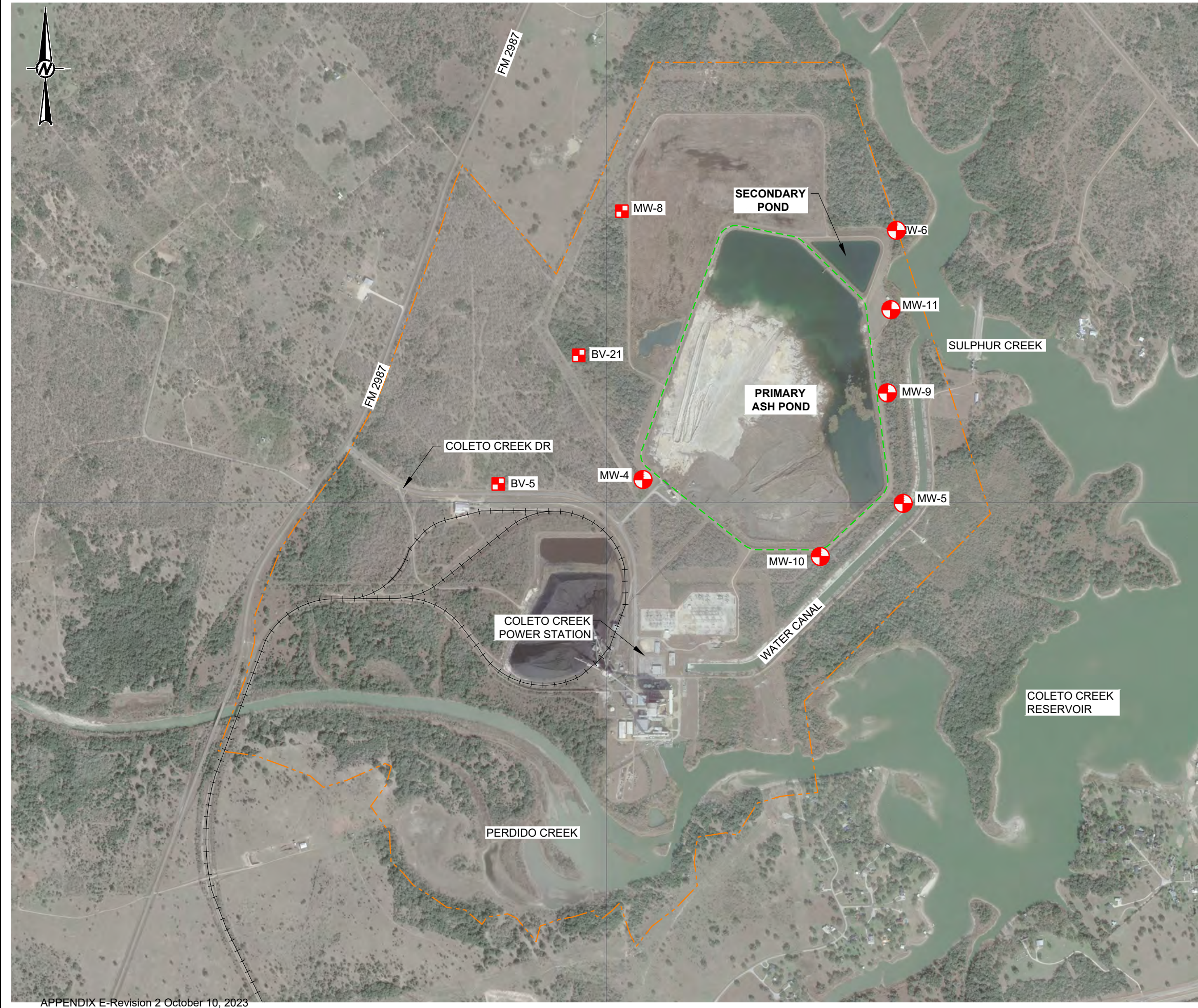
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|--------------------|----------------|-------------|---------------|
| PROJECT NO. | CONTROL | REV. | FIGURE |
| 20142034 | | 0 | 1 |



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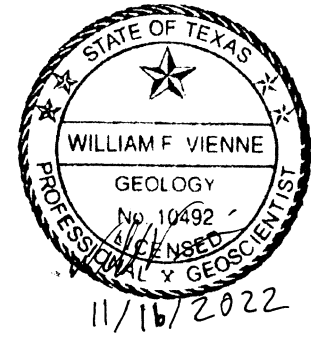
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LEGEND

- PROPERTY BOUNDARY
- CCR MONITORING UNIT
- DOWNGRADIENT CCR MONITORING WELL
- UPGRADIENT CCR MONITORING WELL
- RAILROAD



REFERENCE(S)
BASE MAP TAKEN FROM GOOGLE EARTH, IMAGERY DATED 1/15/21.



CLIENT
COLETO CREEK POWER LP

PROJECT
COLETO CREEK POWER STATION
FANNIN, TEXAS

TITLE
SITE PLAN

| | | |
|------------|------------|------------|
| CONSULTANT | YYYY-MM-DD | 2021-12-14 |
| | DESIGNED | RS |
| | PREPARED | RS |
| | REVIEWED | WFV |
| | APPROVED | WFV |

PROJECT NO. 20142034 REV. 0 FIGURE 2

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

APPENDIX A

CCR Monitoring Well Logs



| | | | | |
|--|--|-----------------------------------|--|--|
| CLIENT International Power America, Inc | | PROJECT Coletto Creek Unit Two | | PROJECT NO. 149116 |
| PROJECT LOCATION Victoria, Texas | | COORDINATES N 327129.3' | GROUND ELEVATION (DATUM) E 2570579.3' | TOTAL DEPTH 133.0 ft (MSL) 80.0 (feet) |
| SURFACE CONDITIONS Grassy, level, tan clayey sand | | COORDINATE SYSTEM State Plane | DATE START 9/16/08 | DATE FINISHED 9/17/08 |

| | | | | |
|---------------|--|---------------------------|----------------------------|-------------|
| SOIL SAMPLING | | LOGGED BY V Bhadriraju | CHECKED BY V Bhadriraju | APPROVED BY |
|---------------|--|---------------------------|----------------------------|-------------|

| SAMPLE TYPE | SAMPLE NUMBER | SET 6 INCHES | 2ND 6 INCHES | 3RD 6 INCHES | N VALUE | SAMPLE RECOVERY | DEPTH (FEET) | SAMPLE TYPE | ELEVATION (FEET) | GRAPHIC LOG | CLASSIFICATION OF MATERIALS | REMARKS |
|-------------|---------------|--------------|--------------|--------------|------------------|-----------------|--------------|-------------|------------------|-------------|---|---|
| | | | | | | | | | | | | |
| CORE SIZE | RUN NUMBER | RUN LENGTH | RUN RECOVERY | RQD RECOVERY | PERCENT RECOVERY | RQD | | | | | | |
| SPT | 1 | 3 | 7 | 11 | 18 | 1.0 | 0 | | 132 | | Clayey SAND; brownish gray; medium dense; moist; fine grained; poorly graded; some roots | Boring advanced w/ 3-1/4" ID hollow stem auger. SPT performed w/ auto hammer. Sand partings are vertical and dry. |
| SPT | 2 | 13 | 11 | 10 | 21 | 1.2 | 2 | | 130 | | @ 3.0'-3.2' yellowish brown fine to medium sand partings; roots grade out | |
| SPT | 3 | 6 | 10 | 13 | 23 | 1.2 | 4 | | 128 | | grading light gray w/ some black mottling | |
| SPT | 4 | 6 | 10 | 13 | 23 | 1.1 | 6 | | 126 | | | |
| SPT | 4 | 6 | 10 | 13 | 23 | 1.1 | 8 | | 124 | | | |
| CA | 5 | 6 | 14 | 19 | 33 | 1.4 | 10 | | 122 | | grading w/some light brown staining | |
| SPT | 6 | 13 | 16 | 20 | 36 | 1.5 | 12 | | 120 | | CLAY; white; hard; moist; low plasticity; frequent pockets of gray fine grained clayey sand | |
| SPT | 6 | 13 | 16 | 20 | 36 | 1.5 | 14 | | 118 | | | |
| CA | 7 | 19 | 30 | 28 | 58 | 1.5 | 16 | | 116 | | grading w/ frequent pockets of gray & light brown clay | |
| CA | 7 | 19 | 30 | 28 | 58 | 1.5 | 18 | | 114 | | | |
| SPT | 8 | 6 | 8 | 8 | 16 | 1.5 | 20 | | 112 | | SAND; grayish white; moist; fine to medium grained; poorly graded | |
| SPT | 8 | 6 | 8 | 8 | 16 | 1.5 | 22 | | 110 | | | |
| SPT | 8 | 6 | 8 | 8 | 16 | 1.5 | 24 | | 108 | | grading medium dense w/trace angular gravel @ 24.0' gravel grades out | |
| SPT | 8 | 6 | 8 | 8 | 16 | 1.5 | 26 | | 106 | | Encountered water @ 25.5' during drilling | |
| SPT | 8 | 6 | 8 | 8 | 16 | 1.5 | 28 | | 104 | | | |
| SPT | 8 | 6 | 8 | 8 | 16 | 1.5 | 30 | | 102 | | grading very dense @ 29.2' calcareous sand nodules; some white silt w/ | |

1/15/2009 4:19 PM Coletto Creek 2



| | | | | |
|--|--|-----------------------------------|--|--|
| CLIENT International Power America, Inc | | PROJECT Coletto Creek Unit Two | | PROJECT NO. 149116 |
| PROJECT LOCATION Victoria, Texas | | COORDINATES N 327129.3' | GROUND ELEVATION (DATUM) E 2570579.3' | TOTAL DEPTH 133.0 ft (MSL) 80.0 (feet) |
| SURFACE CONDITIONS Grassy, level, tan clayey sand | | COORDINATE SYSTEM State Plane | DATE START 9/16/08 | DATE FINISHED 9/17/08 |

| | | | | |
|---------------|--|---------------------------|----------------------------|-------------|
| SOIL SAMPLING | | LOGGED BY V Bhadriraju | CHECKED BY V Bhadriraju | APPROVED BY |
|---------------|--|---------------------------|----------------------------|-------------|

| | | | | | | | | | | | | |
|-------------|---------------|--------------|--------------|--------------|---------|-----------------|--------------|-------------|------------------|-------------|-----------------------------|---------|
| SAMPLE TYPE | SAMPLE NUMBER | SET 6 INCHES | 2ND 6 INCHES | 3RD 6 INCHES | N VALUE | SAMPLE RECOVERY | DEPTH (FEET) | SAMPLE TYPE | ELEVATION (FEET) | GRAPHIC LOG | CLASSIFICATION OF MATERIALS | REMARKS |
|-------------|---------------|--------------|--------------|--------------|---------|-----------------|--------------|-------------|------------------|-------------|-----------------------------|---------|

| | | | | | | | | | | | | |
|-------------|------------|------------|--------------|--------------|------------------|-----|--------------|-------------|------------------|-------------|-----------------------------|---------|
| ROCK CORING | | | | | | | DEPTH (FEET) | SAMPLE TYPE | ELEVATION (FEET) | GRAPHIC LOG | CLASSIFICATION OF MATERIALS | REMARKS |
| CORE SIZE | RUN NUMBER | RUN LENGTH | RUN RECOVERY | RQD RECOVERY | PERCENT RECOVERY | RQD | | | | | | |

| | | | | | | | | | | | | |
|-----|----|----|----|----|----|-----|----|--|-----|--|---|--|
| SPT | 10 | 6 | 8 | 10 | 18 | 0.9 | 30 | | 102 | | chalk nodules | driven along w/ spoon. Below 28.5' continued w/ rotary wash method using 4" drag bit & bentonite slurry as drilling fluid. Driller reported trace gravel from 28.5'-38.5'. |
| | | | | | | | 32 | | 100 | | grading medium dense; wet; fine to medium grained; well graded | |
| SPT | 11 | 14 | 33 | 38 | 71 | 1.5 | 34 | | 98 | | grading very dense @ 38.5'-39.3' yellow silty clay layer @ 39.3' grading grayish white w/ fine grained sand & some silt | Based on driller's comments. |
| | | | | | | | 36 | | 96 | | Clayey SAND; light gray; dense; moist; fine grained; poorly graded | |
| SPT | 12 | 12 | 16 | 21 | 37 | 1.5 | 38 | | 94 | | | |
| | | | | | | | 40 | | 92 | | | |
| SPT | 13 | 12 | 17 | 20 | 37 | 1.5 | 42 | | 90 | | grading light brown; silt grades out | |
| | | | | | | | 44 | | 88 | | | |
| | | | | | | | 46 | | 86 | | | |
| SPT | 14 | 17 | 40 | 33 | 73 | 0.9 | 48 | | 84 | | grading fine to medium grained | |
| | | | | | | | 50 | | 82 | | some angular gravel | |
| | | | | | | | 52 | | 80 | | | |
| | | | | | | | 54 | | 78 | | grading w/ white fine sand; some clay cementation | Driller reported alternating hard and soft drilling efforts. |
| | | | | | | | 56 | | 76 | | | |
| | | | | | | | 58 | | 74 | | | |
| | | | | | | | 60 | | 72 | | | |

1/15/2009 4:19 PM Coletto Creek 2



| | | | | |
|--|--|-----------------------------------|--|--|
| CLIENT International Power America, Inc | | PROJECT Coletto Creek Unit Two | | PROJECT NO. 149116 |
| PROJECT LOCATION Victoria, Texas | | COORDINATES N 327129.3' | GROUND ELEVATION (DATUM) E 2570579.3' | TOTAL DEPTH 133.0 ft (MSL) 80.0 (feet) |
| SURFACE CONDITIONS Grassy, level, tan clayey sand | | COORDINATE SYSTEM State Plane | DATE START 9/16/08 | DATE FINISHED 9/17/08 |

| | | | | |
|---------------|--|---------------------------|----------------------------|-------------|
| SOIL SAMPLING | | LOGGED BY V Bhadriraju | CHECKED BY V Bhadriraju | APPROVED BY |
|---------------|--|---------------------------|----------------------------|-------------|

| SAMPLE TYPE | SAMPLE NUMBER | SET 6 INCHES | 2ND 6 INCHES | 3RD 6 INCHES | N VALUE | SAMPLE RECOVERY | DEPTH (FEET) | SAMPLE TYPE | ELEVATION (FEET) | GRAPHIC LOG | CLASSIFICATION OF MATERIALS | REMARKS |
|-------------|---------------|--------------|--------------|--------------|---------|-----------------|--------------|-------------|------------------|-------------|-----------------------------|---------|
|-------------|---------------|--------------|--------------|--------------|---------|-----------------|--------------|-------------|------------------|-------------|-----------------------------|---------|

| CORE SIZE | RUN NUMBER | RUN LENGTH | RUN RECOVERY | RQD RECOVERY | PERCENT RECOVERY | RQD | DEPTH (FEET) | SAMPLE TYPE | ELEVATION (FEET) | GRAPHIC LOG | CLASSIFICATION OF MATERIALS | REMARKS |
|-----------|------------|------------|--------------|--------------|------------------|-----|--------------|-------------|------------------|-------------|-----------------------------|---------|
|-----------|------------|------------|--------------|--------------|------------------|-----|--------------|-------------|------------------|-------------|-----------------------------|---------|

| | | | | | | | | | | | | |
|-----|----|-------|----|----|-----|-----|----|--|------|--|--|---|
| SPT | 16 | 50/4" | - | - | >50 | 0.2 | 60 | | 60.0 | | Silty SAND; white; very dense; moist; fine grained; poorly graded; some pockets of light brown clay; highly cemented | Based on driller's comments & cuttings from rotary wash. |
| SPT | 17 | 50/3" | - | - | >50 | 0.3 | 64 | | 64 | | grading w/ trace angular to subangular gravel; clay pockets grade to trace | |
| SPT | 18 | 12 | 17 | 22 | 39 | 1.5 | 74 | | 73.5 | | CLAY; dark tan; hard; moist; low plasticity; some sand @ 74.5' yellowish gray | No clay cuttings in drilling fluid return. |
| SPT | 19 | 13 | 17 | 22 | 39 | 1.5 | 78 | | 80 | | | |
| | | | | | | | 80 | | 82 | | | Bottom of boring @ 80.0'. Water level recorded @ 24.6' after 24 hours. Boring backfilled w/ bentonite pallets to 42.5' on 09/17/08. Piezometer PZ-5 set from 30.0' to 40.0'. Boring backfilled with cement bentonite grout to ground surface. |

1/15/2009 4:19 PM Coletto Creek 2



| | | | | |
|--|--|-----------------------------------|--|--|
| CLIENT International Power America, Inc | | PROJECT Coletto Creek Unit Two | | PROJECT NO. 149116 |
| PROJECT LOCATION Victoria, Texas | | COORDINATES N 328659.7' | GROUND ELEVATION (DATUM) E 2571578.7' | TOTAL DEPTH 128.4 ft (MSL) 80.0 (feet) |
| SURFACE CONDITIONS Level, loose, silty sand | | COORDINATE SYSTEM State | DATE START 9/8/08 | DATE FINISHED 9/8/08 |

| | | | | |
|---------------|--|----------------------------|----------------------------|-------------|
| SOIL SAMPLING | | LOGGED BY V. Bhadriraju | CHECKED BY V Bhadriraju | APPROVED BY |
|---------------|--|----------------------------|----------------------------|-------------|

| SAMPLE TYPE | SAMPLE NUMBER | SET 6 INCHES | 2ND 6 INCHES | 3RD 6 INCHES | N VALUE | SAMPLE RECOVERY | DEPTH (FEET) | SAMPLE TYPE | ELEVATION (FEET) | GRAPHIC LOG | CLASSIFICATION OF MATERIALS | REMARKS |
|-------------|---------------|--------------|--------------|--------------|---------|-----------------|--------------|-------------|------------------|-------------|--|---|
| | | | | | | | | | | | | |
| SPT | 1 | 1 | 2 | 5 | 7 | 0.9 | 0 | | 128 | | SAND; dark brown; loose; moist; fine grained; poorly graded | Boring advanced w/3-1/4" ID hollow stem auger. SPT performed w/auto hammer. |
| SPT | 2 | 5 | 5 | 6 | 11 | 1.5 | 2 | | 126 | | Clayey SAND; light brown; medium dense; moist; fine grained; poorly graded | |
| SPT | 3 | 4 | 6 | 9 | 15 | 1.5 | 4 | | 124 | | grading light gray; some black mottling & trace roots | |
| SPT | 4 | 5 | 6 | 8 | 14 | 1.1 | 6 | | 122 | | grading w/trace chalk nodules; roots grade out | |
| SPT | 5 | 6 | 8 | 14 | 14 | 1.1 | 8 | | 120 | | grading w/frequent seams of chalk nodules | |
| CA | 5 | 3 | 3 | 4 | 7 | 1.5 | 10 | | 118 | | Clayey SAND; light gray; moist; fine to medium grained; poorly graded; trace gravel | |
| | | | | | | | 12 | | 116 | | grading w/highly cemented calcareous sand | |
| SPT | 6 | 22 | 50/3 | - | >50 | 0.7 | 14 | | 114 | | Silty SAND; grayish white; very dense; moist; fine grained; poorly graded | |
| | | | | | | | 16 | | 112 | | | |
| SPT | 7 | 24 | 50 | 50/4 | >50 | 0.9 | 18 | | 110 | | grading orange; wet; fine to medium grained; trace calcareous sand nodules | |
| | | | | | | | 20 | | 108 | | | |
| | | | | | | | 22 | | 106 | | | |
| SPT | 8 | 5 | 6 | 14 | 20 | 1.5 | 24 | | 104 | | CLAY; light gray; very stiff; moist; high plasticity; some light brown clay pockets | Water encountered during drilling @ 17.6'. Driller reports softer drilling. Below 18.5' continued w/ rotary wash method using 4" drag bit & bentonite slurry as drilling fluid. White silt & fine sand in bottom of SPT-8 |
| | | | | | | | 26 | | 102 | | SAND; light gray; very dense; wet; fine to coarse grained; well graded; w/trace gravel | |
| | | | | | | | 28 | | 100 | | | |
| SPT | 9 | 20 | 48 | 48 | 36 | 0.9 | 30 | | 100 | | | |



| | | | | |
|--|--|-----------------------------------|--|--|
| CLIENT International Power America, Inc | | PROJECT Coletto Creek Unit Two | | PROJECT NO. 149116 |
| PROJECT LOCATION Victoria, Texas | | COORDINATES N 328659.7' | GROUND ELEVATION (DATUM) E 2571578.7' | TOTAL DEPTH 128.4 ft (MSL) 80.0 (feet) |
| SURFACE CONDITIONS Level, loose, silty sand | | COORDINATE SYSTEM State | DATE START 9/8/08 | DATE FINISHED 9/8/08 |

| | | | | |
|---------------|--|----------------------------|----------------------------|-------------|
| SOIL SAMPLING | | LOGGED BY V. Bhadriraju | CHECKED BY V Bhadriraju | APPROVED BY |
|---------------|--|----------------------------|----------------------------|-------------|

| SAMPLE TYPE | SAMPLE NUMBER | SET 6 INCHES | 2ND 6 INCHES | 3RD 6 INCHES | N VALUE | SAMPLE RECOVERY | DEPTH (FEET) | SAMPLE TYPE | ELEVATION (FEET) | GRAPHIC LOG | CLASSIFICATION OF MATERIALS | REMARKS |
|-------------|---------------|--------------|--------------|--------------|---------|-----------------|--------------|-------------|------------------|-------------|-----------------------------|---------|
|-------------|---------------|--------------|--------------|--------------|---------|-----------------|--------------|-------------|------------------|-------------|-----------------------------|---------|

| CORE SIZE | RUN NUMBER | RUN LENGTH | RUN RECOVERY | RQD RECOVERY | PERCENT RECOVERY | RQD | DEPTH (FEET) | SAMPLE TYPE | ELEVATION (FEET) | GRAPHIC LOG | CLASSIFICATION OF MATERIALS | REMARKS |
|-----------|------------|------------|--------------|--------------|------------------|-----|--------------|-------------|------------------|-------------|-----------------------------|---------|
|-----------|------------|------------|--------------|--------------|------------------|-----|--------------|-------------|------------------|-------------|-----------------------------|---------|

| | | | | | | | | | | | | |
|-----|----|-------|-------|-------|-----|-----|----|--|----|--|---|---|
| | | | | | | | 30 | | 98 | | grading grayish white; fine grained; poorly graded; w/ trace clay & some gravel | |
| | | | | | | | 32 | | 96 | | | |
| SPT | 10 | 33 | 50/4" | - | >50 | 0.4 | 34 | | 94 | | grading fine to medium grained; clay & gravel grade out | @ 34.0'-35.0' boulder encountered. Hard drilling. Drilled through w/ 4" tricone driller bit. Driller reported limestone in cuttings. Continued w/4" paddle bit. 39.0'- 43.2' driller reported clay like drilling. |
| | | | | | | | 36 | | 92 | | | |
| SPT | 11 | 9 | 24 | 40 | 64 | 1.4 | 40 | | 88 | | grading w/occasional light brown clay pockets | |
| | | | | | | | 42 | | 86 | | @ 40.5' white clayey silt & some chalk nodules | |
| | | | | | | | 44 | | 84 | | Silty CLAY; grayish white; hard; moist; low plasticity; w/ some light gray fine sand pockets | |
| SPT | 12 | 13 | 39 | 50/4" | >50 | 1.1 | 46 | | 82 | | grading w/limestone nodules | |
| CA | 13 | 30 | 45 | 50/5" | >50 | 1.0 | 48 | | 80 | | SAND; light gray; wet; fine grained; poorly graded; highly cemented | |
| SPT | 14 | 36 | 50/5" | - | >50 | 1.0 | 50 | | 78 | | @ 47.2' grading light brown; fine to medium grained; cementation grades out | |
| | | | | | | | 52 | | 76 | | Sandy CLAY; grayish white; hard; dry; low plasticity | |
| | | | | | | | 54 | | 74 | | | |
| SPT | 15 | 17 | 30 | 32 | 62 | 1.5 | 56 | | 72 | | | |
| | | | | | | | 58 | | 70 | | | |
| SPT | 16 | 50/4" | | | >50 | 1.0 | 60 | | 68 | | SAND; light brown; very dense; wet; fine to medium grained; poorly graded; some gravel & coarse sand sized chalk nodules; occasional light brown clay pockets | |

1/15/2009 4:19 PM Coletto Creek 2



| | | | | |
|--|--|-----------------------------------|--|--|
| CLIENT International Power America, Inc | | PROJECT Coletto Creek Unit Two | | PROJECT NO. 149116 |
| PROJECT LOCATION Victoria, Texas | | COORDINATES N 328659.7' | GROUND ELEVATION (DATUM) E 2571578.7' | TOTAL DEPTH 128.4 ft (MSL) 80.0 (feet) |
| SURFACE CONDITIONS Level, loose, silty sand | | COORDINATE SYSTEM State | DATE START 9/8/08 | DATE FINISHED 9/8/08 |

| | | | | |
|---------------|--|----------------------------|----------------------------|-------------|
| SOIL SAMPLING | | LOGGED BY V. Bhadriraju | CHECKED BY V Bhadriraju | APPROVED BY |
|---------------|--|----------------------------|----------------------------|-------------|

| SAMPLE TYPE | SAMPLE NUMBER | SET 6 INCHES | 2ND 6 INCHES | 3RD 6 INCHES | N VALUE | SAMPLE RECOVERY | DEPTH (FEET) | SAMPLE TYPE | ELEVATION (FEET) | GRAPHIC LOG | CLASSIFICATION OF MATERIALS | REMARKS |
|-------------|---------------|--------------|--------------|--------------|---------|-----------------|--------------|-------------|------------------|-------------|---|--|
| | | | | | | | | | | | | |
| SPT | 17 | 11 | 20 | 25 | 45 | 1.5 | 60 | | 68 | | @ 60.0' white chalk layer | Clay cuttings from rotary wash |
| | | | | | | | 62 | | 66 | | CLAY; yellowish gray; hard; moist; high plasticity | |
| SPT | 18 | 18 | 25 | 25 | 50 | 1.5 | 64 | | 64 | | grading w/frequent partings of grayish white fine sand w/gravel sized chalk nodules | |
| | | | | | | | 66 | | 62 | | | |
| SPT | 19 | 14 | 27 | 27 | 54 | 1.5 | 68 | | 60 | | @ 73.5'-74.0' light brown fine sand partings grade to occasional | |
| | | | | | | | 70 | | 58 | | | |
| SPT | 20 | 18 | 18 | 29 | 47 | 1.5 | 74 | | 54 | | SAND; grayish white; dense; moist; fine grained; poorly graded; trace clay | |
| | | | | | | | 76 | | 52 | | | |
| | | | | | | | 78 | | 50 | | | |
| | | | | | | | 80 | | 48 | | | Bottom of boring @ 80.0'. Water level recorded @ 16.3' after 24 hours. Boring backfilled w/ bentonite pallets to 42.5' on 09/09/08. Piezometer PZ-21 set from 30.0' to 40.0'. Boring backfilled with cement bentonite grout to ground surface. |
| | | | | | | | 82 | | 46 | | | |
| | | | | | | | 84 | | 44 | | | |
| | | | | | | | 86 | | 42 | | | |
| | | | | | | | 88 | | 40 | | | |
| | | | | | | | 90 | | | | | |

1/15/2009 4:19 PM Coletto Creek 2

BORING NO. W-4

PROJECT: Calaca Creek Power Station
 CLIENT: Central Power & Light Co.
 PLANT: Sanitation Hall No. 3
 SURFACE ELEVATION: 134.1375 TOTAL DEPTH: 06.5 Ft
 LOCATION: S 33408 E0100
 DEPTH TO WATER TABLE MEANS: 11.0 ft DATE: 2-2-78
 OWNED BY: Trinity Testing Laboratories, Inc.
 LOGGED BY: Margaret S. Lundy
 TESTED BY: Trinity Testing Laboratories, Inc.

| DEPTH (ft.) | SAMPLE NUMBER AND TYPE | DISTANCE FROM SURFACE (ft.) | DEPTH (ft.) | DESCRIPTION | ELEVATION (ft., sea level) |
|-------------|------------------------|-----------------------------|-------------|-------------|----------------------------|
| 0 | | | 0 | SM | 130.32 |
| | | | 0.5 | SC | 129.32 |
| 0 | 871 (78) | 26.0 | 80 | SM | |
| 0 | 872 (89) | | | | |
| 10 | 873 (100) | 13.2 | | | |
| 10 | 874 (82) | 11.3 | 43 | SM | |
| 10 | 875 (69) | 13.5 | | SM | |
| 20 | 886 7-25-40 (100) | | | | 13.32 |
| 20 | 887 14-20-4 (100) | | | SM | 09.32 |
| 30 | 888 28-30-39 (100) | | | SM | 103.32 |
| 30 | 889 10-20-4 (100) | | | SM | 100.32 |
| | | | | SM | 98.32 |
| 40 | 8910 61-29-2 | | | | 94.32 |
| | | | | | 93.32 |
| 50 | 8911 17-21-42 (100) | | | SM | 99.32 |
| | | | | | 96.02 |
| 60 | 8912 108/5 (100) | | | SM | 94.32 |
| 55 | 8913 32-50-20 (100) | | | CL | 78.02 |
| 60 | 8914 13-30-34 (100) | | | SM | JA.32 |
| 65 | 8915 60-100/2 (100) | | | CL | 59.32 |
| | | | | | 60.03 |
| 70 | 8916 10-37-109/5 (100) | | | SM | 64.03 |
| | | | | SH | 60.03 |
| 75 | 8917 22-66-64 (100) | | | CL | 58.32 |
| 80 | 8918 10-62-36 (100) | | | SM | |
| 85 | 8919 32-33-64 (100) | | | | |
| 90 | | | | | |

SAND, silty, brown.
 SAND, clayey, medium to fine, brown and yellow.
 - some of cemented sand between 21 ft and 23 ft.
 SAND, medium to fine, trace silt, yellow.
 CLAY, silty, some medium to fine sand, calcareous, yellow.
 SAND, medium to fine, yellow.
 CLAY, silty and sandy, yellow.
 SAND, silty, coarse to fine, trace gravel, yellow.
 - cemented layers.
 - grades to no gravel, white
 - grades to medium to fine.
 - grades to coarse to fine with gravel & calcite.
 CLAY, sandy, yellow and gray.
 SAND and gravel, clayey, prop. with cemented layers.
 CLAY, sandy, gray.
 - grades to yellow
 SAND, silty, coarse to fine, yellow.
 Calcite, (chalk)
 SAND, silty, coarse to fine, yellow.
 CLAY, silty, little medium to fine sand, gray and brown with patches of calcite.
 END OF BORING - 06.5 Ft
 Groundwater encountered at 62.0 ft.

ATTACHMENT 11

Pls. 5

BORING NO. W-5

SHEET 1 OF 2

| DEPTH (ft.) | SAMPLE NUMBER AND TYPE | BLOWS/6" ON SAMPLER (RECOVERY, %) | POCKET PENETROMETER MEASUREMENT (10t.) | FIELD MOISTURE CONTENT (%) | LIQUID LIMIT (%) | PLASTIC LIMIT (%) | OTHER TESTS | CORE RECOVERY (%) | ROD (%) | SYMBOLS | | DESCRIPTION | DEPTH (ft.) | ELEVATION (ft., MSL) | |
|-------------|------------------------|-----------------------------------|--|----------------------------|------------------|-------------------|-------------|-------------------|---------|---------|----|--|---|----------------------|----------------|
| | | | | | | | | | | SC | SM | | | | |
| 0 | | | | | | | | | | SC | SM | SAND, silty, brown (topsoil) SAND, clayey, medium to fine, brown. | 0 | 19.57 19.07 | |
| 5 | ST1 | (75) | | 12.8 | | | SA | | | | | | 5 | 14.07 | |
| | ST2 | (83) | | | | | | | | | | CL | CLAY, silty, gray, with Caliche. | | |
| | ST3 | (83) | | | | | | | | | | SC | SAND, clayey, brown, with layers of Caliche. | | 11.57 |
| 10 | ST4 | (83) | | | | | | | | | | CL | CLAY, silty, yellow and white, with lenses and pockets of Caliche. | 10 | 08.57 |
| 16 | ST5 | (78) | | 3.1 | | | SA | | | | | SM | SAND, medium to fine, white. | 16 | 04.57 |
| 20 | SS6 | 8-13-20 (100) | | | | | SA | | | | | | | 20 | |
| 25 | SS7 | 7-47-100 /4.5 (100) | | | | | | | | | | SC | SAND, clayey, calcareous, white. (Caliche) | 25 | 3.57 |
| 30 | SS8 | 6-13-31 (100) | | | | | | | | | | SM-SC | SAND, silty and clayey, white, with lenses and seems of Caliche - grades to gray. | 30 | 0.57 |
| 35 | SS9 | 14-36-31 (100) | | | | | SA | | | | | | | 35 | |
| 40 | SS10 | 1-27-31 (100) | | | | | | | | | | SM | SAND, silty, coarse to fine, white | 40 | 79.57 79.07 |
| 45 | SS11 | 16-67-100/5.5 (100) | | 34 | 15 | | | | | | | CL | CLAY, silty, gray, with seems of Caliche. | 45 | 13.57 |
| 50 | | | | | | | | | | | | | 50 | | |

| REVISION | DATE | DESCRIPTION |
|----------|-------------------------|-------------|
| | APPROVED BY | |
| 0 | 10-24-78 D.G. Berlin | For Use |
| | | |
| | | |
| | | |

**COLETO CREEK POWER STATION
LOG OF BORING W-5**

CENTRAL POWER & LIGHT CO.

SARGENT & LUNDY
ENGINEERS

PROJECT NUMBER 4857

| DEPTH (ft.) | SAMPLE NUMBER AND TYPE | BLOWS/6" ON SAMPLER (RECOVERY, %) | POCKET PENETROMETER MEASUREMENT (tsf) | FIELD MOISTURE CONTENT (%) | LIQUID LIMIT (%) | PLASTIC LIMIT (%) | OTHER TESTS | CORE RECOVERY (%) | ROD (%) | SYMBOLS | | DESCRIPTION | DEPTH (ft.) | ELEVATION (ft., MBL) |
|-------------|------------------------|-----------------------------------|---------------------------------------|----------------------------|------------------|-------------------|-------------|-------------------|---------|---------|--|--|-------------|----------------------|
| | | | | | | | | | | | | | | |
| 50 | SS12 | 72-100/1 (100) | | | | | SA | | | SM-SC | | SAND, silty and clayey, calcareous, white, very dense. (Caliche) | 59.57 | |
| 55 | SS13 | 50-74-130/5.5 (100) | | | | | | | | SM | | SAND, silty, white. | 66.57 | |
| 60 | SS14 | 100/3.5 (100) | | | 18 | 14 | SA | | | SM-SC | | SAND, silty and clayey, calcareous, white and brown, very dense. (Caliche) | 62.57 | |
| 65 | SS15 | 18-78-100/4.5 (100) | | | | | | | | CL | | CLAY, silty, brown. | 53.57 | |
| 70 | SS16 | 9-17-21 (100) | | | | | | | | | | END OF BORING - 71.5 Ft | 48.07 | |
| 75 | | | | | | | | | | | | Groundwater encountered at 40.0 Ft. and rose to 32.5 Ft. | | |

| REVISION | DATE | DESCRIPTION |
|----------|-------------------------|-------------|
| | APPROVED BY | |
| 0 | 10-24-78 R.G. Boddal | For Use |
| | | |
| | | |
| | | |

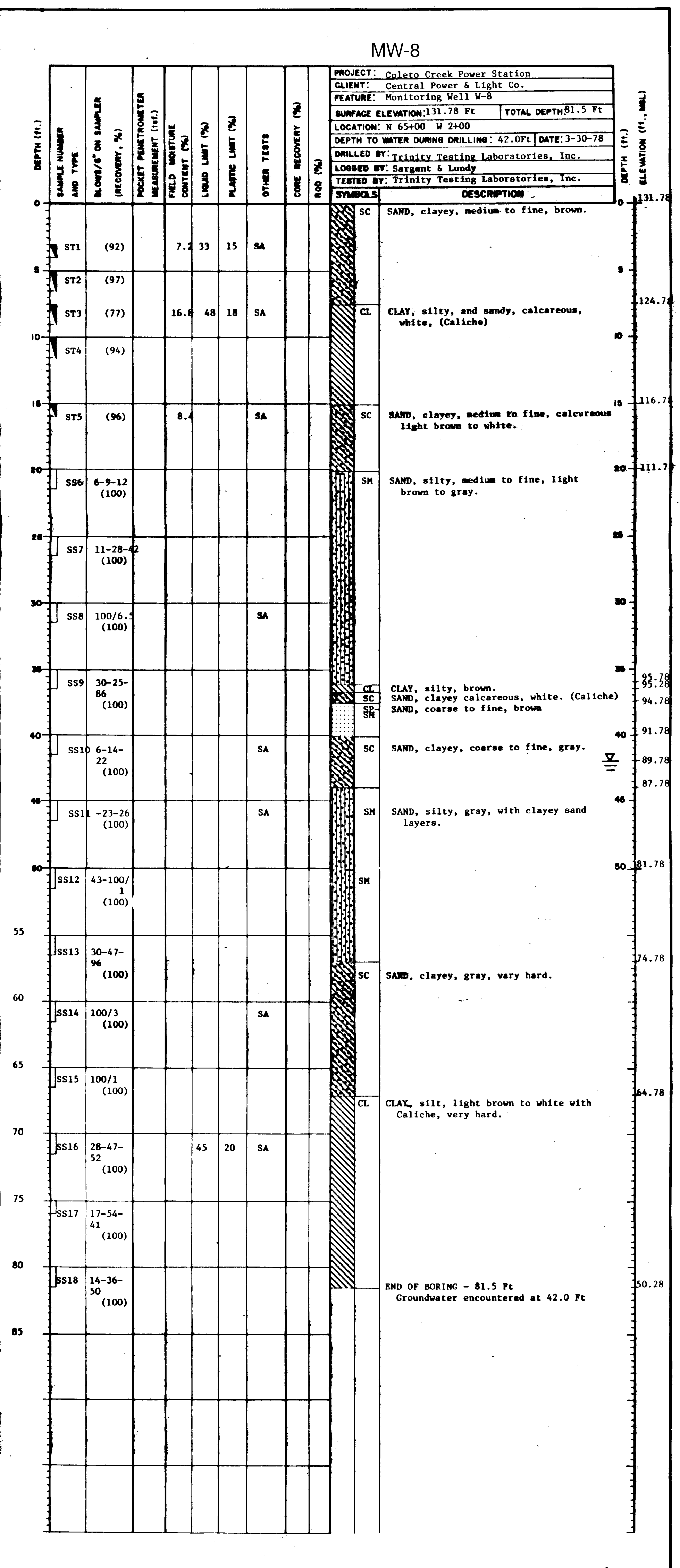
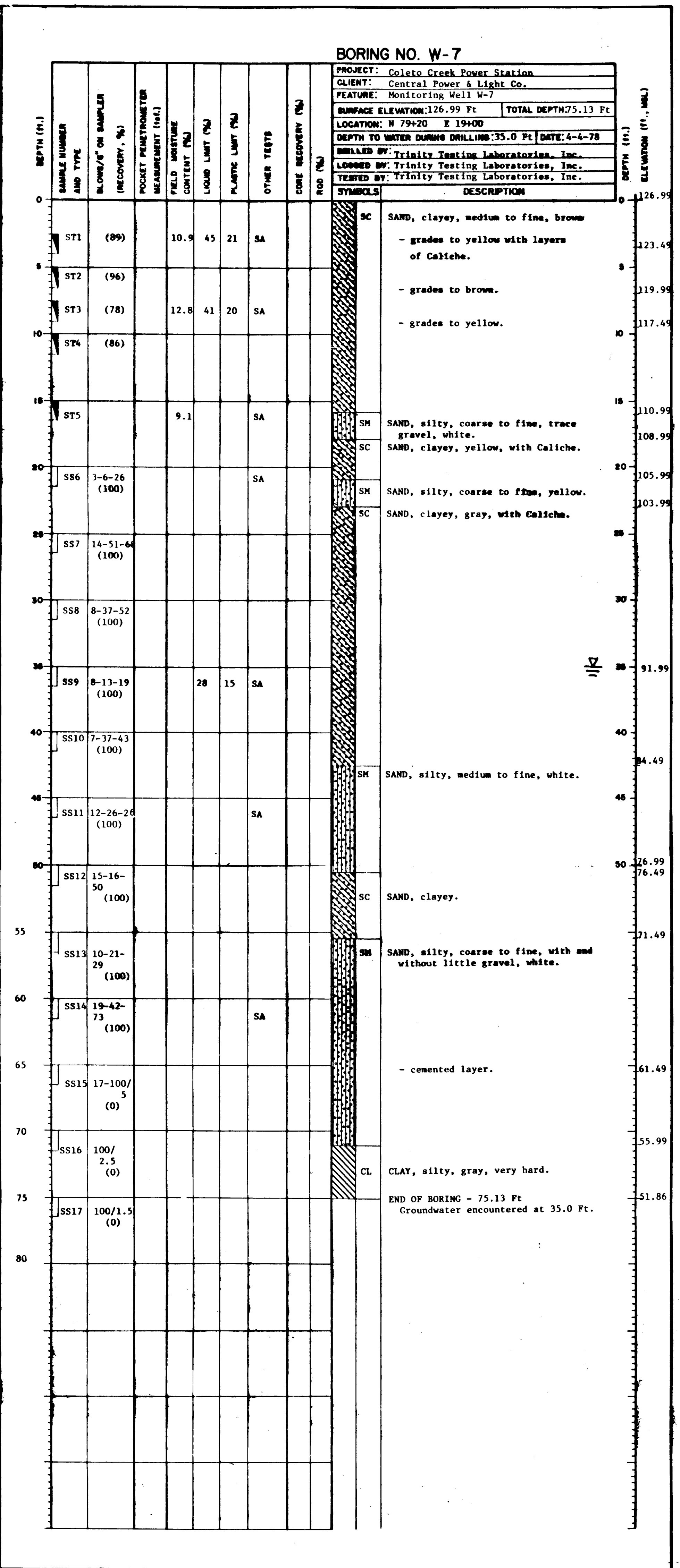
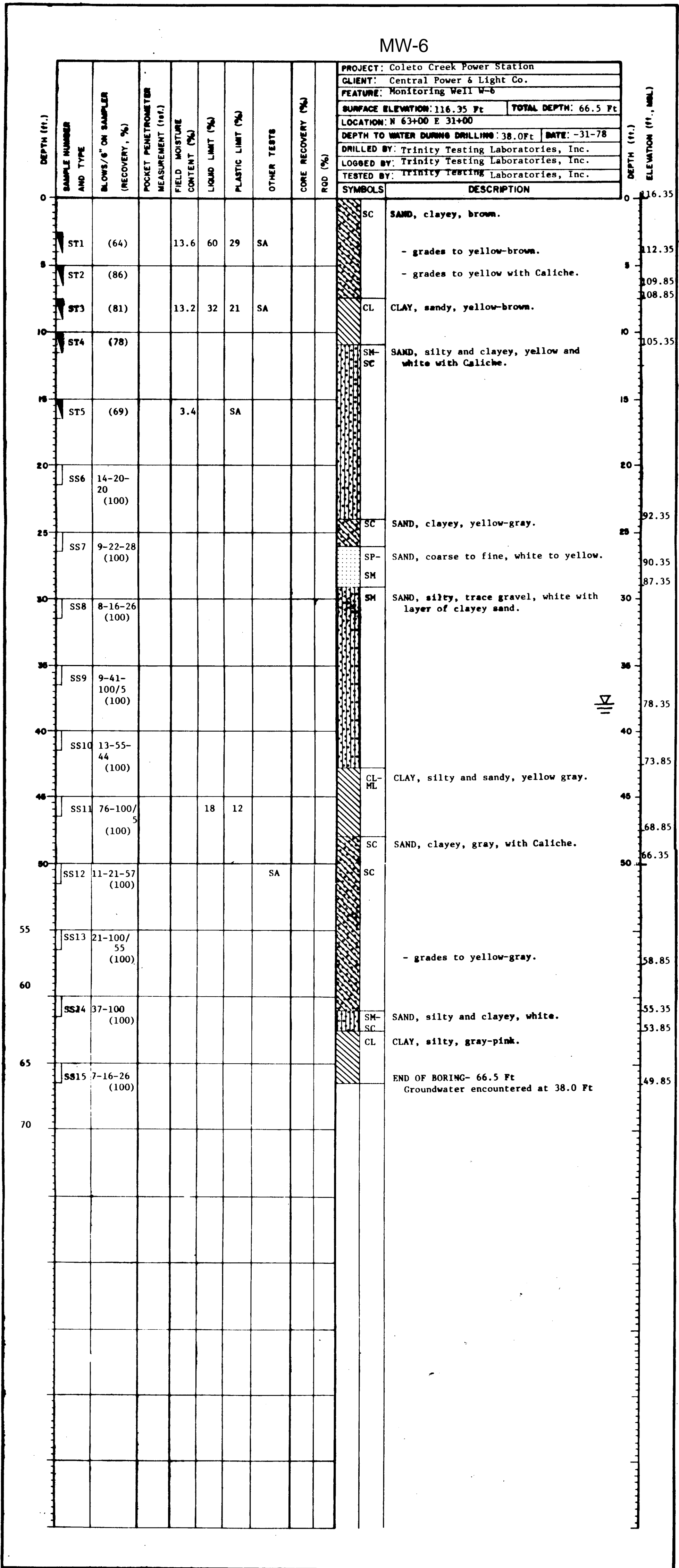
COLETO CREEK POWER STATION
LOG OF BORING W-5 (cont'd)

CENTRAL POWER & LIGHT CO.

SARGENT & LUNDY
ENGINEERS

PROJECT NUMBER 4857

APPENDIX E Revision 2 October 10, 2023



NOTES

REFERENCE DRAWINGS

S-2 SOILS BORINGS LOCATION PLAN

FOR REFERENCE ONLY
SPEC. CC 2-513.20
11-21-80

| DRAWING RELEASE RECORD | | | | | DRAWING RELEASE RECORD | | | | | SCALE | | PROJECT NUMBER | | LOG OF BORINGS | | SARGENT & LUNDY | | |
|------------------------|------------|----------|----------|----------|------------------------|------|------|------------|----------|----------------|----------|----------------|------|----------------|----------------|---|-------------|------|
| REV. | DATE RELD. | PREPARED | REVIEWED | APPROVED | PURPOSE | FILM | REV. | DATE RELD. | PREPARED | REVIEWED | APPROVED | PURPOSE | FILM | SCALE | PROJECT NUMBER | LOG OF BORINGS | DRAWING NO. | REV. |
| | | | | | | | A | 09-08-80 | Chas... | R. A. McDaniel | John ... | FOR RECORD | | NONE | 4827 | W-6 THROUGH W-8 COLETO CREEK POWER STATION UNIT 1 CENTRAL POWER & LIGHT COMPANY GOLIAD COUNTY, TEXAS | S-10 | A |

Bullock, Bennett & Associates, LLC
 165 N. Lampasas Street
 Bertram, TX 78605

LOG OF BORING W-9

(Page 1 of 1)

COLETO CREEK POWER STATION
 FANNIN, TX

Date : 9/15/2015
 Easting : 2543670.9
 Northing : 13451651.2
 Top of Casing
 Elevation : 132.3 ft NAVD 88
 Logger : EEF

Drilling Company : EnviroCore
 Driller : Craig Schena (Lic. #4694)
 Drill Rig : CME75
 Drilling Method : Hollow Stem Auger - 6"
 Sampling Method : Split-Spoon

Project No. 15215

| DEPTH (feet) | Surface Elevation | DESCRIPTION | USCS | GRAPHIC | Recovery (ft/ft) | WELL DIAGRAM/REMARKS |
|--------------|-------------------|---|-------|---------|------------------|---|
| 0.0 | 128 | (0-2.0) - Fill Material: CLAYEY SAND, mottled light gray and reddish brown, moist | SC | | 1.5/2 | Well Construction: Riser -3.0' AGL - 40.0' BGL Neat Cement: 0' - 2.0' BGL Bentonite chips seal: 2.0' - 38.0' BGL Sand Pack: 38.0' - 60.0' BGL Screen: 40.0' - 60.0' BGL Water Level: 25.2' BGL 5-26-16 |
| 5.0 | 124 | (2.0-5.5) - Fill Material: Silty CLAY/Clayey SAND, brownish gray to white, soft to firm, Sand is fine to coarse grained, common caliche gravel, moist | SC/CL | | 2/2 | |
| | | (5.5-10.0) - Silty CLAY, dark gray to gray with orangish brown mottling, firm to hard, medium plasticity, common caliche gravel, minor roots, moist | CL | | 2/2 | |
| 10.0 | 120 | | | | 2/2 | |
| 15.0 | 116 | | | | 2/2 | |
| | 112 | (10.0-20.5) - Predominantly Caliche and Silty CLAY, light gray to white, Caliche is weakly cemented, low plasticity, dry | ML/CL | | 2/2 | |
| 20.0 | 108 | | | | 2/2 | |
| | 104 | (20.5-22.0) - SILTY SAND, very light brownish gray, fine to coarse grained, trace of gravel, moist | SM | | 2/2 | |
| 25.0 | 100 | | | | 2/2 | |
| 30.0 | 96 | (22.0-44.0) - SAND, very light orangish brownish to very light gray, fine to coarse grained, slightly silty, wet | SW | | 2/2 | |
| 35.0 | 92 | | | | 2/2 | |
| 40.0 | 88 | | | | 2/2 | |
| 45.0 | 84 | (44.0-47.0) - SILTY SAND, light gray, fine to coarse grained, wet | SM | | 2/2 | |
| 50.0 | 80 | (47.0-54.0) - Silty CLAY/Clayey SAND, light gray, soft to firm, Sand is fine to coarse grained, wet | SC/CL | | 2/2 | |
| 55.0 | 76 | | | | 2/2 | |
| 60.0 | 72 | (54.0-60.0) - Silty, Clayey SAND, gray, fine to coarse grained, wet | SC/SM | | 2/2 | |

Total Boring Depth = 60 ft Below Ground Level; North and Easting Coordinates from NAD-83, South Central Zone

Bullock, Bennett & Associates, LLC
 165 N. Lampasas Street
 Bertram, TX 78605

LOG OF BORING W-10

(Page 1 of 1)

COLETO CREEK POWER STATION
 FANNIN, TX

Date : 9/17/2015
 Easting : 2542864.5
 Northing : 13449694.0
 Top of Casing
 Elevation : 130.4 ft NAVD 88
 Logger : EEF

Drilling Company : EnviroCore
 Driller : Craig Schena (Lic. #4694)
 Drill Rig : CME75
 Drilling Method : Hollow Stem Auger - 6"
 Sampling Method : Split-Spoon

Project No. 15215

| DEPTH (feet) | Surface Elevation | DESCRIPTION | USCS | GRAPHIC | Recovery (ft/ft) | WELL DIAGRAM/REMARKS |
|--------------|-------------------|-------------|------|---------|------------------|----------------------|
|--------------|-------------------|-------------|------|---------|------------------|----------------------|

| | | | | | | |
|------|-----|---|-------|--|-------|---|
| 0.0 | | (0-2.0) - Fill Material: SILTY SAND, fine to coarse grained, brown, clayey, common roots, moist | SM | | 2/2 | <p>Well Construction: Riser ~3.0' AGL - 40.0' BGL Neat Cement: 0' - 2.0' BGL Bentonite chips seal: 2.0' - 38.0' BGL Sand Pack: 38.0' - 60.0' BGL Screen: 40.0' - 60.0' BGL</p> <p>Water Level: 24.8' BGL</p> <p><i>Craig E. Bennett</i> CRAIG E. BENNETT GEOLOGY LIC. # 1205 LICENSED PROFESSIONAL GEOSCIENTIST</p> |
| 5.0 | 124 | (2.0-8.0) - Silty, Sandy CLAY, mottled organish brown and light gray, firm, medium plasticity, moist | CL | | 1.0/2 | |
| | 120 | | | | 0/2 | |
| | 116 | | | | 1.7/2 | |
| 10.0 | | (8.0-11.0) - Silty CLAY/Clayey SAND, light gray, Sand is medium grained, moist | SC/CL | | 2/2 | |
| | 112 | | | | 1.7/2 | |
| | 108 | | | | 1.8/2 | |
| 15.0 | | (11.0-19.0) - SILTY SAND, very light gray, medium to coarse grained, abundant caliche, moist | SM | | 1.8/2 | |
| | 104 | | | | 1.8/2 | |
| | 100 | | | | 1.8/2 | |
| 20.0 | | (19.0-30.0) - SAND, light gray, medium to coarse grained, occasional gravel, moist | SP | | 1.8/2 | |
| | 96 | | | | 1.8/2 | |
| | 92 | | | | 1.8/2 | |
| 30.0 | | (30.0-32.0) - Silty CLAY/Clayey SAND, light gray, soft to firm, occasional gravel and caliche, medium plasticity, wet | CL/SC | | 1.8/2 | |
| | 88 | | | | 1.8/2 | |
| | 84 | | | | 1.8/2 | |
| 35.0 | | (32.0-34.0) - CLAYEY SAND, brownish gray, soft, very fine, wet | SC | | 1.8/2 | |
| | 80 | | | | 1.8/2 | |
| | 76 | | | | 2/2 | |
| 40.0 | | (34.0-36.0) - SILTY SAND, light gray, fine to medium grained, wet | SM | | 1.5/2 | |
| | 72 | | | | 1.8/2 | |
| | 68 | | | | 1.8/2 | |
| 45.0 | | (36.0-52.0) - Silty, Clayey SAND, light gray, fine to coarse grained, wet | SC/SM | | 1.8/2 | |
| | 72 | | | | 1.8/2 | |
| | 68 | | | | 2/2 | |
| 50.0 | | | | | 1.8/2 | |
| | 68 | | | | 1.8/2 | |
| 55.0 | | (52.0-60.0) - SILTY SAND, light gray, fine to coarse grained, clayey, wet | SM | | 2/2 | |
| 60.0 | | | | | 1.5/2 | |

Total Boring Depth = 60 ft Below Ground Level; North and Easting Coordinates from NAD-83, South Central Zone

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LOG OF BORING MW-11

(Page 1 of 1)

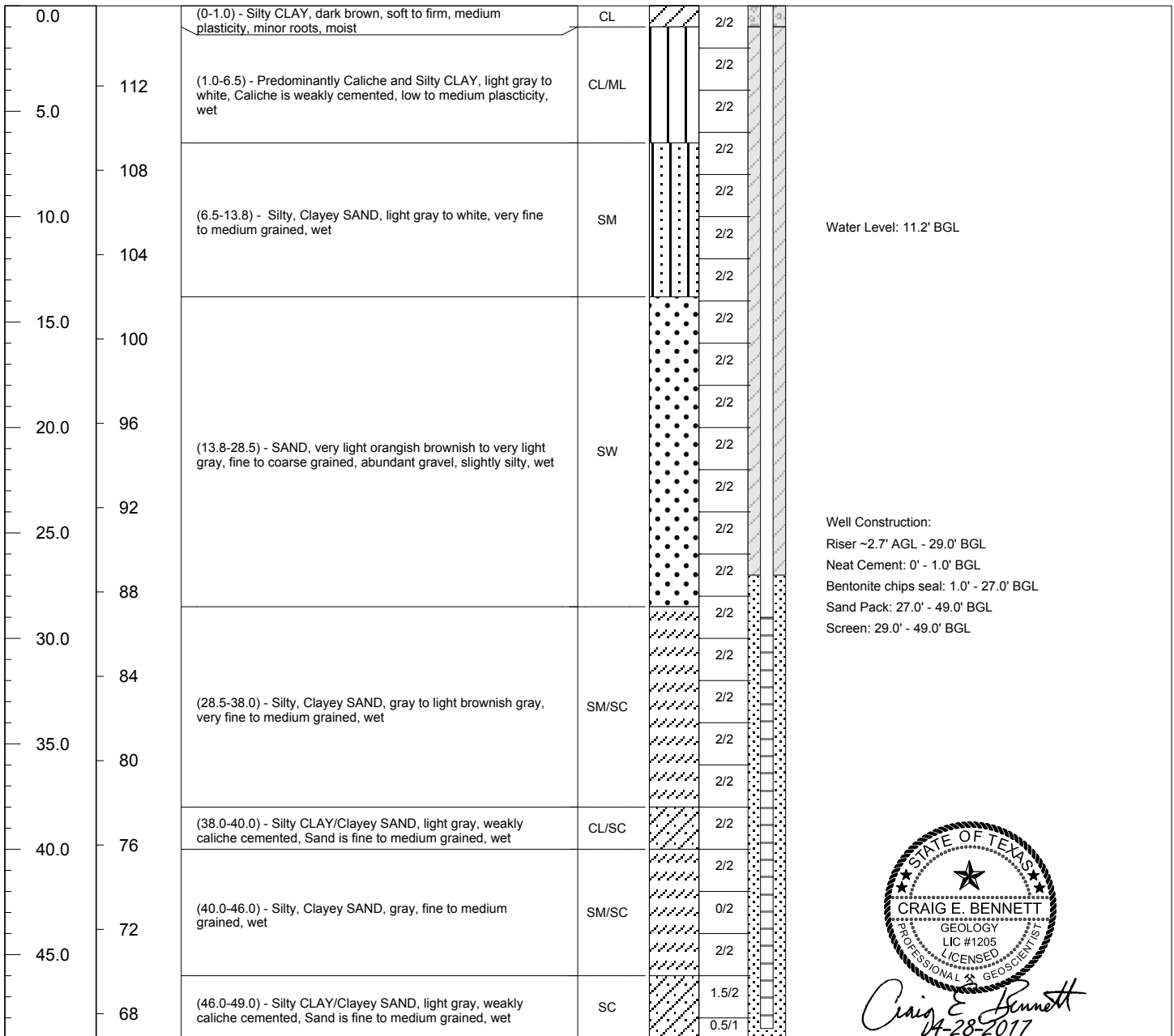
COLETO CREEK POWER STATION
 FANNIN, TX

Date : 4/25/2017
 Easting : 2543727.0
 Northing : 13452676.5
 Top of Casing Elevation : 118.66 ft NAVD 88
 Logger : EEF

Drilling Company : EnviroCore
 Driller : Craig Schemm (Lic. #4694)
 Drill Rig : CME75
 Drilling Method : Hollow Stem Auger - 6"
 Sampling Method : Split-Spoon

Project No. 17252

| DEPTH (feet) | Surface Elevation | DESCRIPTION | USCS | GRAPHIC | Recovery (ft/ft) | WELL DIAGRAM/REMARKS |
|--------------|-------------------|-------------|------|---------|------------------|----------------------|
| | 115.8 | | | | | |



Total Boring Depth = 49 ft Below Ground Level; North and Easting Coordinates from NAD-83, South Central Zone

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**COAL COMBUSTION RESIDUAL RULE
BACKGROUND GROUNDWATER MONITORING AND
STATISTICAL ANALYSIS SUMMARY REPORT**

*PRIMARY ASH POND
COLETO CREEK POWER STATION
FANNIN, TEXAS*

October 6, 2023

Prepared For:

Coleto Creek Power, LLC

Prepared By:

Bullock, Bennett & Associates, LLC
165 N. Lampasas Street
Bertram, Texas 78605

Texas Engineering Firm Registration No. F-8542
Texas Geoscience Firm Registration No. 50127

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1.0 INTRODUCTION

Coletto Creek Power, LLC operates the Coletto Creek Power Station (Coletto Creek), a coal-fired power plant located in Fannin, Goliad County, Texas (the Site) (Figure 1). CCRs including fly ash and bottom ash are generated as part of power plant operations. Bottom ash and fly ash have historically been managed/disposed in the Primary Ash Pond (PAP) onsite. Bottom ash is sluiced directly to the PAP from the unit boiler. Fly ash is pneumatically conveyed from the boiler to storage silos where it is loaded into hopper trucks and transported off-site for beneficial re-use.

The CCR Rule (Title 40 Code of Federal Regulations (CFR) Section 257 Subpart D - *Standards for the Receipt of Coal Combustion Residuals in Landfills and Surface Impoundments*) has been promulgated by the United States Environmental Protection Agency (USEPA) to regulate the management and disposal of CCRs as solid waste under Resource Conservation and Recovery Act (RCRA) Subtitle D. The final CCR Rule was published in the Federal Register on April 17, 2015. The effective date of the CCR Rule is October 19, 2015. TCEQ adopted portions of the Federal CCR Rule at Title 30 Texas Administrative Code (TAC) Chapter 352 (Texas CCR Rule). The USEPA published its final approval of the Texas CCR rule on June 28, 2021 and the Texas CCR Rule became effective on July 28, 2021. It adopts and incorporates by reference the Federal CCR Program requirements for groundwater monitoring at 30 TAC Sections 352.901 through 352.951.

The CCR Rule establishes national minimum criteria for existing and new CCR landfills, existing and new CCR surface impoundments, and lateral expansions to landfills/impoundments. Section 257.93(d) of the CCR Rule requires that the owner or operator of the CCR unit must establish background groundwater quality in a hydraulically upgradient or background well(s) for each of the constituents required in the particular groundwater monitoring program that applies to the CCR unit as determined under Section 257.94(a) (*Detection Monitoring Program*) and Section 257.95(a) (*Assessment Monitoring Program*). Section 257.94(b) of the CCR Rule requires that a minimum of eight independent groundwater samples from each background and downgradient well associated with a CCR unit be collected and analyzed for the constituents listed in Appendix III and IV to Part 257 no later than October 17, 2017. This report presents a summary of the sampling and analytical activities performed to establish background groundwater quality at the Site.

1.1 CCR Unit Description

The Primary Ash Pond is an aboveground surface impoundment having an approximate surface area of 190 acres and storage capacity of approximately 2,700 acre-feet (S&L, December 1978). Approximately 12,855 linear feet of above-grade earthen dikes surround the impoundment. Bottom ash and fly ash have historically been managed/disposed in the Primary Ash Pond (PAP) onsite. Bottom ash is sluiced directly to the PAP from the unit boiler. Fly ash is pneumatically conveyed from the boiler to storage silos where it is loaded into hopper trucks and transported off-site for beneficial re-use.

1.2 Local Geology and Hydrogeology

The Site is located in the outcrop area of the Pleistocene-aged Lissie Formation within the western region of the Gulf Coast Basin (Barnes, 1998). The Lissie Formation sediments dip to southeast at 5 to 20 feet per mile and consist of sand, silt, clay, and minor amounts of gravel (Doering, 1935). Extensive soil data collected at the Site indicate that the stratigraphy below the PAP is divided into three distinct lithologic units, which are described below in order of increasing depth:

- **Unit 1** – The PAP is built on top of the ground surface of Unit 1 and is enclosed by above-grade dikes that were constructed using Unit 1 material. Sargent and Lundy prepared a PAP design and construction summary report that evaluated soil borings completed in the footprint of the PAP and surrounding areas (S&L, 1978). Based on soil sample descriptions for the soil borings completed at the Site, Unit 1 generally consists of dry to moist, low permeability sandy clay and silty clay with intermittent clayey sand and caliche.
- **Unit 2** – Unit 2 comprises the uppermost aquifer at the Site. Unit 2 consists primarily of permeable sand and silty sand, with intermittent layers of less permeable clay-bearing soils with varying thickness.
- **Unit 3** – Unit 3 is a basal clay confining stratum that primarily consists of low permeability clay and silty clay with some sandy clay zones.

1.3 Primary Ash Pond Groundwater Monitoring System

Unit 2 is considered the uppermost aquifer at the Site based on its stratigraphic location, groundwater availability, and characteristically higher hydraulic conductivity/permeability and effective porosity when compared to Unit 1 and Unit 3. The CCR groundwater monitoring well

network for the Primary Ash Pond consists of nine monitoring wells each screened within Unit 2. The locations of the CCR monitoring wells are shown on Figure 1. Groundwater generally flows to the south and east in the vicinity of the Primary Ash Pond. This is demonstrated on the groundwater potentiometric surface maps presented in Appendix A, which were constructed using groundwater elevation data collected during the baseline monitoring period. The location of each CCR monitoring well relative to the Primary Ash Pond is as follows:

| Upgradient/Background Wells | Downgradient Wells |
|------------------------------------|---------------------------|
| BV-5 | MW-4 |
| BV-8 | MW-5 |
| BV-21 | MW-6 |
| | MW-9 |
| | MW-10 |
| | MW-11 |

2.0 BACKGROUND GROUNDWATER MONITORING PROGRAM

This section describes groundwater sampling and analysis procedures used for the background monitoring events.

2.1 Groundwater Sampling Procedures

Groundwater sampling to establish background was performed by Coletto Creek environmental compliance staff in accordance with the Groundwater Sampling and Analysis Plan (BBA, 2017). Water levels were measured in each well to the nearest 0.01-foot prior to purging or sampling the wells. The wells were purged using low-flow methods until field water quality parameters stabilized, after which a groundwater sample was collected in a laboratory-supplied container. After the samples were collected, the sample containers were placed in a cooler or similar container, preserved with ice, and delivered to the laboratory for analysis.

2.2 Analytes and Analytical Procedures

Groundwater samples collected during the background period were analyzed for the constituents listed in Appendix III and IV to Part 257, including:

| Appendix III Constituents | Appendix IV Constituents |
|------------------------------|----------------------------------|
| Boron | Arsenic |
| Calcium | Barium |
| Chloride | Beryllium |
| Fluoride | Cadmium |
| pH | Chromium |
| Sulfate | Cobalt |
| Total Dissolved Solids (TDS) | Fluoride |
| | Lead |
| | Lithium |
| | Mercury |
| | Molybdenum |
| | Selenium |
| | Thallium |
| | Radium 226 and 228 (combined) |

The laboratory methods used to analyze the background samples were as follows:

Appendix III Constituents

- Boron and calcium by USEPA Method SW6020;
- Chloride, fluoride, and sulfate by USEPA Method E300;
- pH by Standard Method M4500-H + B (field measurement); and
- TDS by Standard Method M2540.

Appendix IV Constituents

- Antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, lead, lithium, molybdenum, selenium, and thallium by USEPA Method SW6020;
- Fluoride USEPA Method E300;
- Mercury by USEPA Method SW7470; and
- Radium 226 and 228 by USEPA Methods 904.0/SW9320 Modified and 903.1 Modified.

All metals analyses were reported as “total recoverable metals” in accordance with Section 257.93(1) of the CCR Rule. Samples were not filtered prior to analysis.

2.3 Background Groundwater Monitoring Sampling Results

Eight background groundwater monitoring events were performed using the Primary Ash Pond CCR monitoring well system from March 2017 through July 2017. The laboratory analytical reports for the background samples are presented in Appendix B and the background sample data are summarized in Appendix C, Table C-1 (Appendix III constituents) and Table C-2 (Appendix IV constituents).

2.4 Establishing Background Assessment Levels

The following statistical evaluation approach was selected to develop background groundwater quality assessment levels for the Site:

- Use of interwell data evaluations, which compare new sample data to data from upgradient or background monitoring wells.
- Use of upper prediction limits (UPLs) to develop site-specific background concentrations for all Appendix III and Appendix IV constituents. This approach is a common statistical method used to evaluate groundwater compliance for Subtitle D landfill facilities and is one of the approved options for groundwater quality data statistical evaluations under the CCR Rule.

Documentation on the statistical procedures used to establish background UPLs is presented in Appendix C.

3.0 DETECTION AND ASSESSMENT MONITORING DATA EVALUATION PROCEDURES

Statistical analysis of groundwater monitoring data is required as part of detection monitoring and assessment monitoring under Section 257.93 of the CCR Rule. Section 257.93 of the CCR Rule provides several options for statistically evaluating the groundwater data. The owner or operator of the CCR unit must select one of the following statistical methods specified in paragraphs (f)(1) through (5) of Section 257.93 to use in evaluating groundwater monitoring data for each specified constituent:

- (1) A parametric analysis of variance followed by multiple comparison procedures to identify statistically significant evidence of contamination. The method must include estimation and testing of the contrasts between each compliance well's mean and the background mean levels for each constituent.
- (2) An analysis of variance based on ranks followed by multiple comparison procedures to identify statistically significant evidence of contamination. The method must include estimation and testing of the contrasts between each compliance well's median and the background median levels for each constituent.
- (3) A tolerance or prediction interval procedure, in which an interval for each constituent is established from the distribution of the background data and the level of each constituent in each compliance well is compared to the upper tolerance or prediction limit.
- (4) A control chart approach that gives control limits for each constituent.
- (5) Another statistical test method that meets the performance standards of paragraph (g) of this section.

The following statistical evaluation approaches were selected to demonstrate groundwater compliance for the Primary Ash Pond under the CCR Rule:

- Use of interwell data evaluations, which compare new sample data to data from upgradient or background monitoring wells.
- Use of UPLs to develop site-specific background concentrations for all Appendix III and Appendix IV constituents. This approach is a common statistical method used to evaluate groundwater compliance for Subtitle D landfill facilities and is one of the approved options for groundwater quality data statistical evaluations under the CCR Rule.
- After every detection monitoring event, Appendix III constituent concentrations from each well are compared to background UPLs to ascertain if a statistically significant increase above background exists. Background UPLs are based on a 1-of-2 resampling approach, meaning that if one or more constituent concentrations in a compliance well

are above their respective background concentration, a resample can be collected to validate or invalidate the background concentration exceedance.

- If in assessment monitoring, the 95% lower confidence limit of the mean (LCL) is calculated after each assessment monitoring event for each Appendix IV constituent. The data set used to calculate LCLs is based on current and historical constituent concentrations. A statistically significant level over the Groundwater Protection Standard (GWPS) has occurred at a CCR unit when the LCL for at least one assessment monitoring constituent at a well is greater than the appropriate GWPS. Development of the GWPSs is discussed in Section 3.2 and statistical methods used to develop LCLs are discussed in Appendix C.

The selected statistical evaluation procedures conform with the CCR Rule requirements, as well as the Statistical Analysis Plan for the Site (WSP Golder, 2022), USEPA's *Unified Guidance: Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities* (USEPA, 2009), and the American Society for Testing and Materials (ASTM) standard D6312-17, *Developing Appropriate Statistical Approaches for Groundwater Detection Monitoring Programs at waste Disposal Facilities* (ASTM, 2017).

3.1 Detection Monitoring Data Evaluation

After every detection monitoring event, the constituent concentrations from each downgradient well are compared to the background UPLs to ascertain if a statistically significant increase above background exists. The Appendix III detection monitoring prediction limits are summarized in Table 1. Documentation on the statistical procedures used to establish background groundwater quality prediction limits is presented in Appendix C. Background UPLs are based on a 1-of-2 resampling approach, meaning that if zero or one concentration measurements from a series of two independent samples collected from a well do not exceed the appropriate UPL, then a statistically significant increase over background has not occurred at the CCR unit. This conclusion will be reached if the data indicate either of the following:

- All detection monitoring constituent concentrations in a compliance well are less than or equal to their respective background UPL; or
- At least one detection monitoring constituent concentration in a well is above the respective background UPL. If this occurs, the well or wells with constituent concentration(s) above the background UPL(s) may be resampled and analyzed for the detection monitoring constituent(s) with exceedances. If the resample indicates that the target detection monitoring constituent concentration(s) in the well or wells is less than or equal to their respective background UPL(s), then it can be concluded that a statistically significant increase over background for all detection monitoring constituents has not occurred since concentrations in one sample of the two independent samples do not

exceed the appropriate background UPL(s).

If the groundwater monitoring data indicate that a statistically significant increase over background has not occurred at the CCR wells, then detection monitoring at all CCR wells will continue on a semi-annual basis.

If one or more detection monitoring constituent concentrations in any well is above the respective background UPL in both the original detection monitoring sample and the resample, then a statistically significant increase over background for the target detection monitoring constituents can be concluded. In accordance with Section 257.94(e), if a statistically significant increase is indicated, within 90 days the owner/operator shall:

- Establish an assessment monitoring program, or
- Demonstrate that a source other than the CCR unit caused the statistically significant increase over the background UPL for a constituent, or that the statistically significant increase resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality. Per 30 TAC Section 352.941, in making an alternative source demonstration, the owner or operator must:
 - Notify the TCEQ executive director, and any local pollution agency with jurisdiction that has requested to be notified, in writing within 14 days that the owner or operator intends to make an alternative source demonstration; and
 - Within 90 days of making a determination of a statistically significant increase over the background value for any Appendix III constituent, submit a report prepared and certified in accordance with 30 TAC Section 352.4 (relating to Engineering and Geoscientific Information) to the TCEQ executive director and any local pollution agency with jurisdiction that has requested to be notified, demonstrating that a source other than a CCR unit caused the statistically significant increase or that the statistically significant increase resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality.

3.2 Assessment Monitoring Data Evaluation

Assessment monitoring will be performed at a CCR unit's groundwater monitoring system after a statistically significant increase over background has been confirmed for one or more of the detection monitoring constituents and the statistically significant increase cannot be attributed to a source other than the CCR unit. Within 90 days of obtaining the results from the initial assessment monitoring sampling event, GWPSs will be established for all Appendix IV assessment monitoring constituents as follows:

- For constituents for which an MCL has been established, the GWPS is the highest of the MCL, UPL, or reporting limit for each constituent; or
- For constituents for which an MCL has not been established, the GWPS is the higher of the UPL, reporting limit, or the EPA regional screening level (RSL) for each constituent.

The GWPS for each Appendix IV constituent is presented in Table 2.

The 95% LCL for each Appendix IV constituent concentration at each well is compared to the GWPS established for each constituent to ascertain if a statistically significant level above the GWPS does or does not exist. A statistically significant level is indicated if the LCL exceeds the GWPS. Additional information on the development of Appendix IV constituent LCLs is provided in Appendix C.

In accordance with Section 257.95(g)(3), if a statistically significant level over GWPSs for any Appendix IV assessment monitoring constituent is confirmed, within 90 days of the initial assessment monitoring event, the owner/operator will either:

- Initiate an assessment of corrective measures for the CCR unit in accordance with Section 257.96; or
- Demonstrate that a source other than the CCR unit caused the statistically significant level over the background UPL for a constituent, or that the statistically significant level resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality. Per 30 TAC Section 352.951, in making an alternative source demonstration, the owner or operator must:
 - Notify the TCEQ executive director, and any local pollution agency with jurisdiction that has requested to be notified, in writing within 14 days that the owner or operator intends to make an alternative source demonstration; and
 - Within 90 days of making a determination of a statistically significant level over the GWPS of any Appendix IV constituent, submit a report prepared and certified

in accordance with 30 TAC Section 352.4 (relating to Engineering and Geoscientific Information) to the TCEQ executive director, and any local pollution agency with jurisdiction that has requested to be notified, demonstrating that a source other than a CCR unit caused the exceedance or that the exceedance resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality.

If one or more Appendix IV assessment monitoring constituents are detected at statistically significant levels above their respective GWPS in any sampling event, and if a source other than the CCR unit cannot be demonstrated to have caused the exceedance, the nature and extent of the potential release should be further characterized as follows in accordance with Section 257.95(g)(1):

- Install additional monitoring wells necessary to define the contaminant plume(s);
- Collect data on the nature and estimated quantity of material released including specific information on the Appendix IV assessment monitoring constituents and the levels at which they are present in the material released;
- Install at least one additional monitoring well at the facility boundary in the direction of contaminant migration and sample this well for all Appendix III detection monitoring parameters and for those Appendix IV assessment monitoring constituents that have been detected as part of assessment monitoring. This monitoring must be performed on at least a semi-annual basis thereafter; and
- Sample all wells in accordance with Section 257.95(d)(1) to characterize the nature and extent of the release.

4.0 REFERENCES

ASTM, 2017. Standard Guide for Developing Appropriate Statistical Approaches for Groundwater Detection Monitoring Programs at Waste Disposal Facilities - D6312-17.

Bullock, Bennett & Associates, LLC (BBA), 2017. Groundwater Sampling and Analysis Plan, Coletto Creek Primary Ash Pond, Coletto Creek Power Station, Fannin, Texas.

Doering, J., 1935. Post-Fleming Surface Formations of Coastal Southeast Texas and South Louisiana. AAPG Bulletin, Vol. 19, No. 5, p. 651-688.

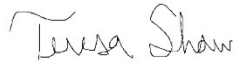
Golder, 2022. Coal Combustion Residual Rule, Statistical Analysis Plan, Revision No. 1, Coletto Creek Primary Ash Pond, Fannin, Texas.

Sargent & Lundy Engineers, 1978. Design and Construction Summary for Coal Pile and Wastewater Pond Facilities, Coletto Creek Power Station Unit 1, Report SL-3689.

USEPA, 2009. Unified Guidance Document: Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, EPA 530/R-09-007, March.

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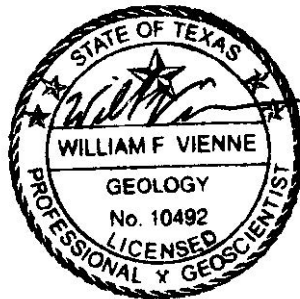
Bullock, Bennett & Associates, LLC



Teresa Shaw
Senior Statistician



William Vienne, P.G.
Senior Hydrogeologist



10/06/2023

Tables

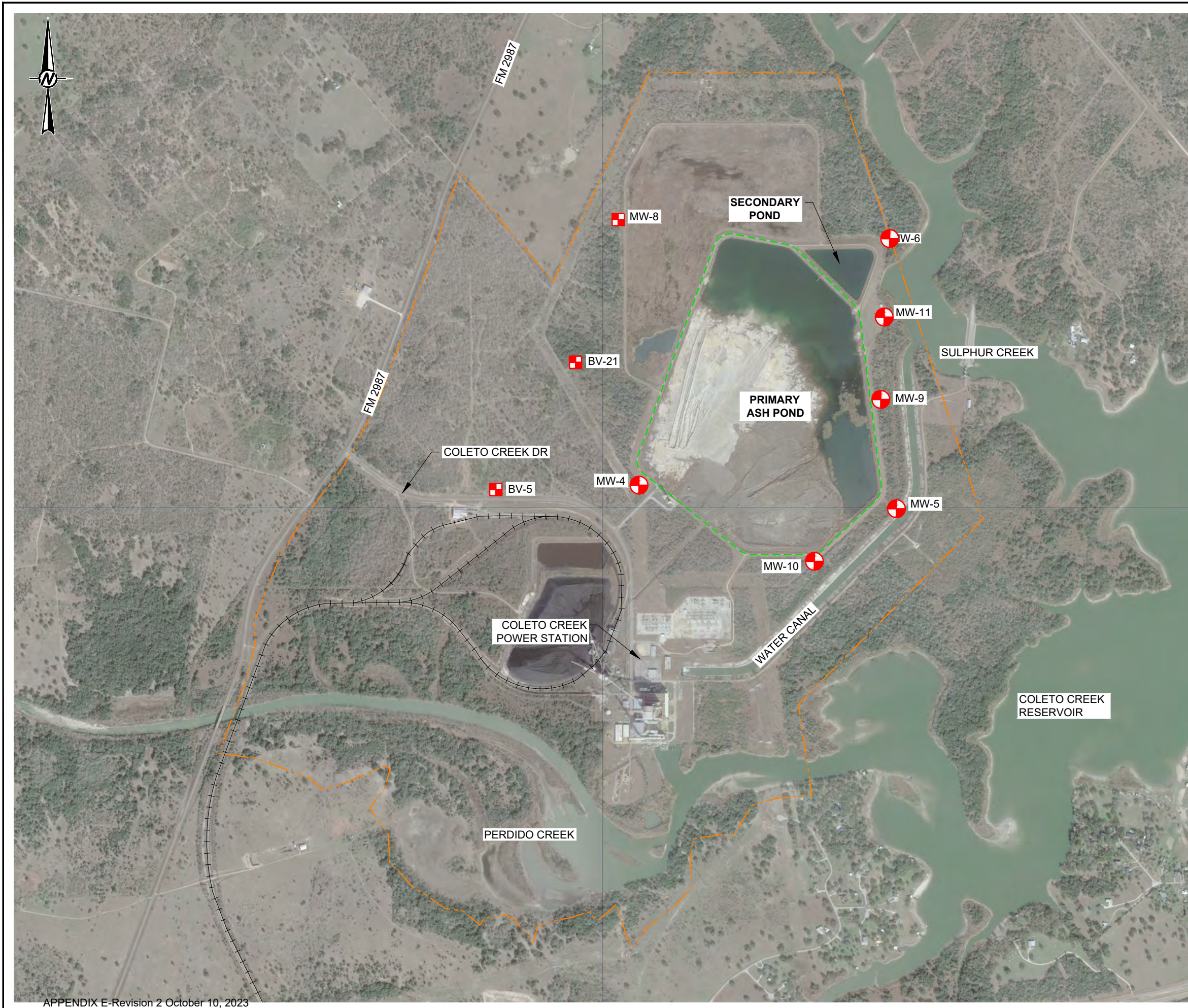
Table 1
Appendix III Groundwater Background
Coletto Creek Primary Ash Pond

| Parameter | Statistical Background Value |
|-------------------------------|-------------------------------------|
| Boron (mg/L) | 1.3 |
| Calcium (mg/L) | 140 |
| Chloride (mg/L) | 120 |
| Fluoride (mg/L) | 0.61 |
| field pH (s.u.) | 6.5 7.3 |
| Sulfate (mg/L) | 150 |
| Total Dissolved Solids (mg/L) | 970 |

Table 2
Groundwater Protection Standards
Coletto Creek Primary Ash Pond

| Parameter | Groundwater Protection Standard |
|------------------------|--|
| Antimony (mg/L) | 0.0060 |
| Arsenic (mg/L) | 0.13 |
| Barium (mg/L) | 2.0 |
| Beryllium (mg/L) | 0.0040 |
| Cadmium (mg/L) | 0.0050 |
| Chromium (mg/L) | 0.10 |
| Cobalt (mg/L) | 0.050 |
| Fluoride (mg/L) | 4.0 |
| Lead (mg/L) | 0.015 |
| Lithium (mg/L) | 0.040 |
| Mercury (mg/L) | 0.0020 |
| Molybdenum (mg/L) | 0.10 |
| Selenium (mg/L) | 0.050 |
| Thallium (mg/L) | 0.0020 |
| Radium 226+228 (pCi/L) | 5.0 |

Figures



LEGEND

- - - PROPERTY BOUNDARY
- - - CCR MONITORING UNIT
- ⊕ DOWNGRADIENT CCR MONITORING WELL
- ⊞ UPGRADIENT CCR MONITORING WELL
- + + + + RAILROAD

REFERENCE(S)
 BASE MAP TAKEN FROM GOOGLE EARTH, IMAGERY DATED 1/15/21.



Coletto Creek Power

Figure 1
SITE PLAN

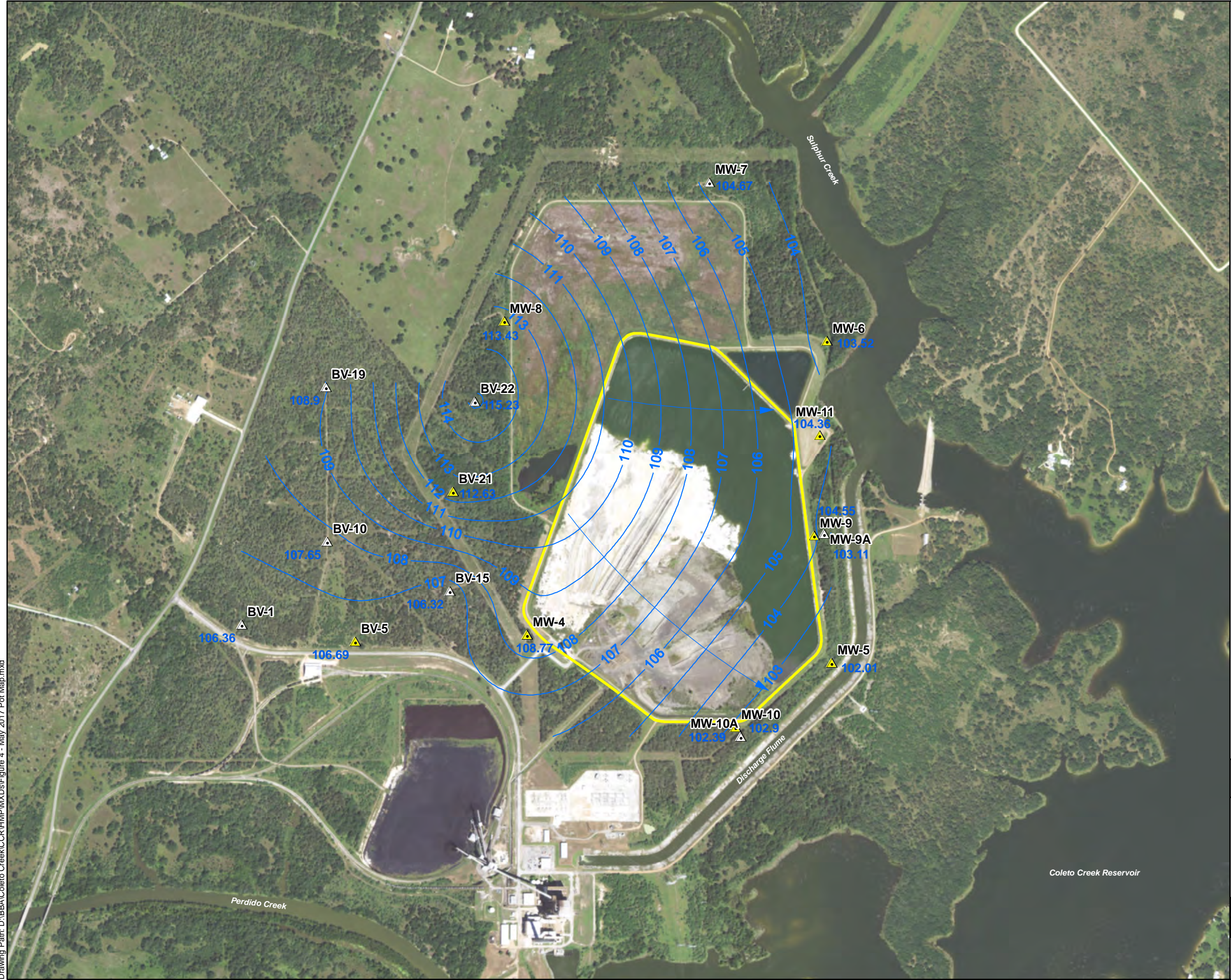
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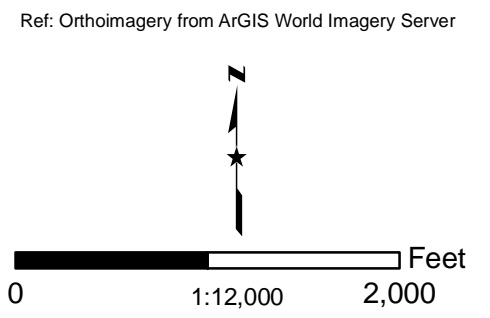
Appendix A

Groundwater Potentiometric Surface Maps (BBA, 2017)

Plot Date: 10/12/2017 - 7:02:05 AM, Plotted by: E.Ficker
 Drawing Path: D:\BBA\Coletto Creek\CCR\HMP\MXDs\Figure 4 - May 2017 Pot. Map.mxd



- Explanation**
- ▲ CCR Rule Monitoring Well
 - ▲ Non-CCR Rule Monitoring Well
 - 105 May 2017 Potentiometric Surface Elevation Contour (ft. MSL)
 - CCR Monitored Unit
 - ➔ Groundwater Flow Direction



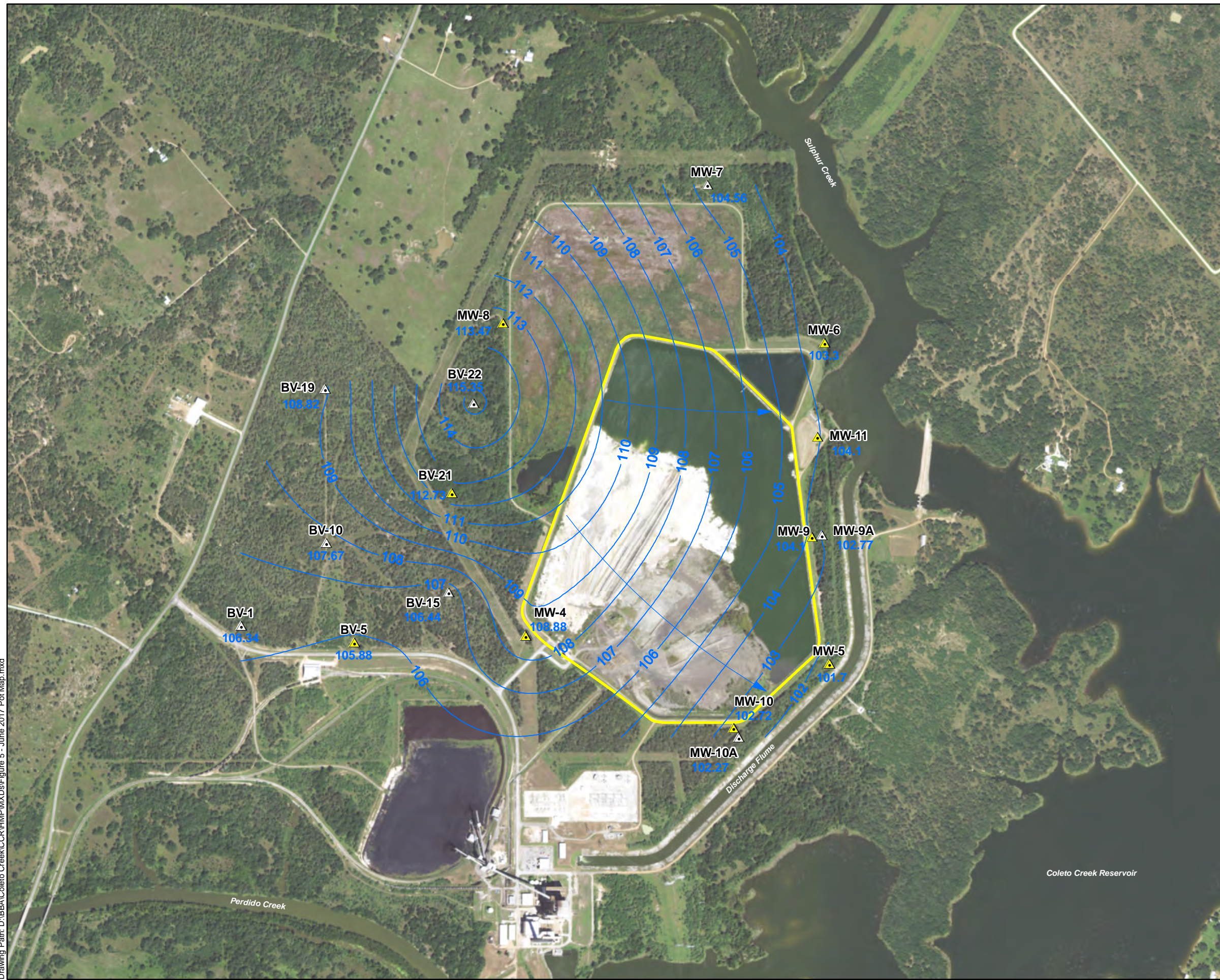
Coletto Creek Power, LP

Figure 4
May 9-11, 2017
Potentiometric Surface Map
Uppermost Aquifer Unit

| | | |
|----------------|--------------|-----------|
| PROJECT: 17258 | BY: EEF | REVISIONS |
| DATE: Oct 2017 | CHECKED: CEB | |

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Plot Date: 10/12/2017 - 7:02:34 AM. Plotted by: E.Ficker
 Drawing Path: D:\BBA\Coletto Creek\CCR\HMP\MXDs\Figure 5 - June 2017 Pot Map.mxd



- Explanation**
- CCR Rule Monitoring Well
 - Non-CCR Rule Monitoring Well
 - June 2017 Potentiometric Surface Elevation Contour (ft. MSL)
 - CCR Monitored Unit
 - Groundwater Flow Direction

Ref: Orthoimagery from ArGIS World Imagery Server

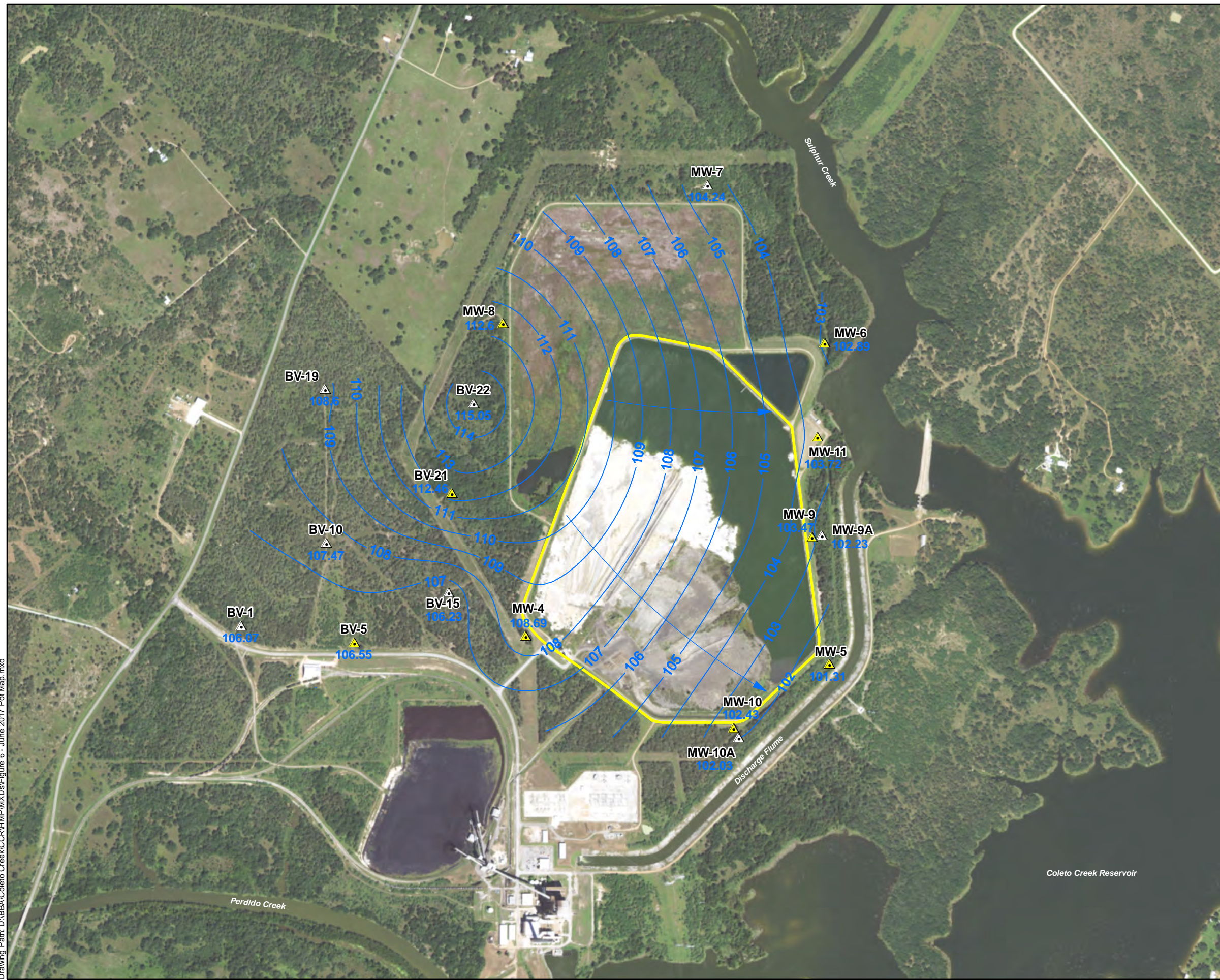
Coletto Creek Power, LP

**Figure 5
 June 6-8, 2017
 Potentiometric Surface Map
 Uppermost Aquifer Unit**

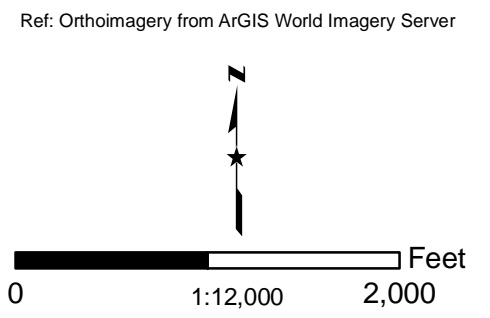
| | | |
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| PROJECT: 17258 | BY: EEF | REVISIONS |
| DATE: Oct 2017 | CHECKED: CEB | |

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Plot Date: 10/12/2017 - 7:02:59 AM. Plotted by: E.Ficker
 Drawing Path: D:\BBA\Coletto Creek\CCR\HMP\MXDs\Figure 6 - June 2017 Pot Map.mxd



- Explanation**
- ▲ CCR Rule Monitoring Well
 - ▲ Non-CCR Rule Monitoring Well
 - 105 June 2017 Potentiometric Surface Elevation Contour (ft. MSL)
 - CCR Monitored Unit
 - Groundwater Flow Direction



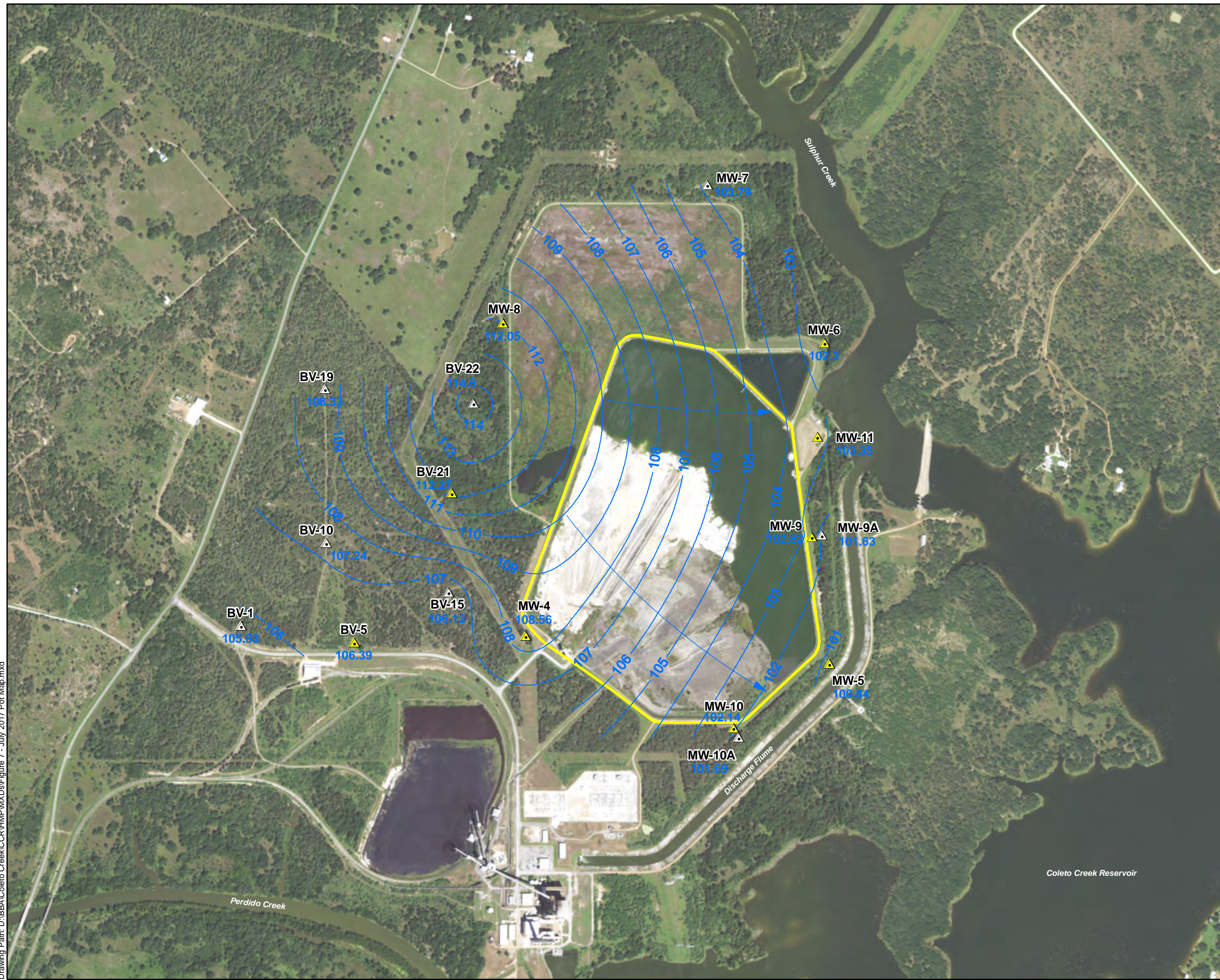
Coletto Creek Power, LP

Figure 6
June 26-28, 2017
Potentiometric Surface Map
Uppermost Aquifer Unit

| | | |
|----------------|--------------|-----------|
| PROJECT: 17258 | BY: EEF | REVISIONS |
| DATE: Oct 2017 | CHECKED: CEB | |

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 Engineering and Geoscience
 Texas Registrations: Engineering F-8542, Geoscience 50127

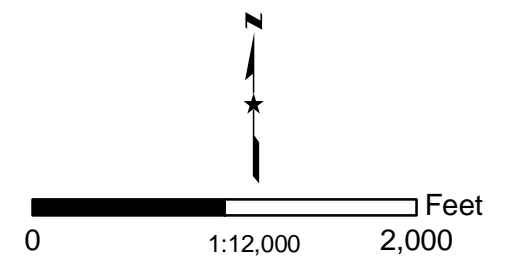
Plot Date: 10/12/2017 - 7:03:30 AM. Plotted by: E.Ficker
 Drawing Path: D:\BBA\Coletto Creek\CCR\HMP\MXDs\Figure 7 - July 2017 Pot. Map.mxd



Explanation

- CCR Rule Monitoring Well
- Non-CCR Rule Monitoring Well
- July 2017 Potentiometric Surface Elevation Contour (ft. MSL)
- CCR Monitored Unit
- Groundwater Flow Direction

Ref: Orthoimagery from ArGIS World Imagery Server



Coletto Creek Power, LP

**Figure 7
 July 18-20, 2017
 Potentiometric Surface Map
 Uppermost Aquifer Unit**

| | | |
|----------------|--------------|-----------|
| PROJECT: 17258 | BY: EEF | REVISIONS |
| DATE: Oct 2017 | CHECKED: CEB | |

Bullock, Bennett & Associates, LLC
 Engineering and Geoscience
 Texas Registrations: Engineering F-8542, Geoscience 50127

Appendix B
Laboratory Analytical Reports

BatchNo: 53213

SAMPLE REPORT



T104704328-17-14

Business

Coletto Creek Power - R Coleman
PO Box 8
Fannin TX 77960
Att: Rick Coleman



Laboratory

B Environmental, LLC.
1606 E Brazos, Suite D
Victoria TX 77901
ph. 361-572-8224

Reference Information

Project: CCR Sampling
Printed: Wednesday,
May 03, 2017

Re: Coletto Creek Power - R Coleman

Dear: Rick Coleman

Attached are the results for sample(s) received on 3/28/2017

The analytical results relate only to the samples tested.

All supporting quality data meets the requirements of NELAC unless noted in the case narrative section of the report.

This report contains 39 pages (including the cover page)

If you have any questions concerning this report, please do not hesitate to call (361) 572-8224 or Fax us at (361) 572-4115

Respectfully Submitted,

Kevin Baros

Laboratory Director



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Batch No: 53213

Sample Receipt Checklist

Date Received: 3/28/2017

Project: CCR Sampling Received By: Vahrenkamp

Login completed by: Vahrenkamp 3/28/2017
Signature LoginDate:

Carrier Name Walk In

- Shipping container/cooler in good condition? YES NO Not Present
- Custody seals intact on shipping container/cooler? YES NO Not Present
- Custody seals intact on sample bottles? YES NO Not Present
- Chain of Custody present? YES NO
- Chain of Custody signed when relinquished and received YES NO
- Chain of Custody agrees with sample labels? YES NO
- Samples in proper container/bottles? YES NO
- Sample containers intact? YES NO
- Sufficient sample volume for indicated tests? YES NO
- All samples received within holding times? YES NO
- Container/Temp Blank - temperature in compliance? YES NO >0 <6 °C On Ice
- Water - VOA vials have zero headspace? Bubble < 6mm? YES NO No VOA Vials submitted
- Water - pH acceptable upon receipt? YES NO Not Applicable

*TEMP 9.8/9.4 pH Adjusted? No Checked By L. Vahrenkamp

Any No and/or N/A (not applicable) response must be detailed in the comments section below.

Client contacted PersonContacted
Contacted by: Date Contacted:

Regarding

Comments
Therm #3. HNO3 Lot # 2-42-12. pH Paper Lot # 2-25-6. The samples were received the same day they were collected and were in the process of cooling.

Corrective Action



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BatchNo: 53213

Sample Report Information



| | | | |
|------------------------------|-------------------------|-----------------|---------------|
| Sample ID: S170871632 | Client ID: Blank | Sampler: | Client |
|------------------------------|-------------------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman
Study: Water
Project: CCR Sampling
Location: Blank
Notes:

Batch No: 53213
Sampled: 3/28/2017 3:26 PM
Type: Grab
Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | < 1 | mg/L | EPA 300 | K Baros | 3/30/2017 2:24 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | < 20 | mg/L | SM 2320 B | | 4/3/2017 13:03 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 3/30/2017 13:46 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | < 20 | mg/L | SM 2320 B | | 3/30/2017 13:46 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | < 0.25 | mg/L | EPA 300 | K Baros | 3/30/2017 2:24 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 5.47 | SU | SM 4500-H+B | C Watts | 3/28/2017 17:20 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | < 25 | mg/L | SM2540C | C Watts | 3/31/2017 17:00 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 4/3/2017 13:03 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | < 1 | mg/L | EPA 300 | K Baros | 3/30/2017 2:24 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 4/20/2017 7:46 | | | | | | <input checked="" type="checkbox"/> ARS International |



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Sample Report Information



| | | | |
|------------------------------|------------------------|-----------------|---------------|
| Sample ID: S170871635 | Client ID: MW 8 | Sampler: | Client |
|------------------------------|------------------------|-----------------|---------------|

Client: Coleto Creek Power - R Coleman
Study: Water

Batch No: 53213
Sampled: 3/28/2017 3:06 PM

Project: CCR Sampling

Location: MW #8

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 79 | mg/L | EPA 300 | K Baros | 3/29/2017 15:36 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 268 | mg/L | SM 2320 B | | 3/30/2017 13:56 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 10 | mg/L | SM 2320 B | | 3/30/2017 13:56 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 268 | mg/L | SM 2320 B | | 3/30/2017 13:56 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.49 | mg/L | EPA 300 | K Baros | 3/29/2017 15:36 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 6.94 | SU | SM 4500-H+B | C Watts | 3/28/2017 17:20 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 626 | mg/L | SM2540C | C Watts | 3/31/2017 17:00 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 4/3/2017 16:01 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 76 | mg/L | EPA 300 | K Baros | 3/29/2017 15:36 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 4/20/2017 7:46 | | | | | | <input checked="" type="checkbox"/> ARS International |



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BatchNo: 53213

Sample Report Information



| | | | |
|------------------------------|-----------------------|-----------------|---------------|
| Sample ID: S170871637 | Client ID: Dup | Sampler: | Client |
|------------------------------|-----------------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman
Study: Water

Batch No: 53213
Sampled: 3/28/2017 12:00 AM

Project: CCR Sampling

Location: Dup

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 79 | mg/L | EPA 300 | K Baros | 3/29/2017 20:03 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 267 | mg/L | SM 2320 B | | 3/30/2017 14:05 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 10 | mg/L | SM 2320 B | | 3/30/2017 14:05 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 267 | mg/L | SM 2320 B | | 3/30/2017 14:05 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.48 | mg/L | EPA 300 | K Baros | 3/29/2017 20:03 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 6.93 | SU | SM 4500-H+B | C Watts | 3/28/2017 17:20 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 628 | mg/L | SM2540C | C Watts | 3/31/2017 17:00 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | c | # | | | 4/4/2017 12:20 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 76 | mg/L | EPA 300 | K Baros | 3/29/2017 20:03 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | c | # | | | 4/20/2017 7:46 | | | | | <input checked="" type="checkbox"/> | ARS International |



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Sample Report Information



| | | | |
|------------------------------|------------------------|-----------------|---------------|
| Sample ID: S170871638 | Client ID: MW 4 | Sampler: | Client |
|------------------------------|------------------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman
Study: Water

Batch No: 53213
Sampled: 3/28/2017 11:27 AM

Project: CCR Sampling

Location: MW #4

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 102 | mg/L | EPA 300 | K Baros | 3/30/2017 1:07 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 248 | mg/L | SM 2320 B | | 3/30/2017 14:15 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 10 | mg/L | SM 2320 B | | 3/30/2017 14:15 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 248 | mg/L | SM 2320 B | | 3/30/2017 14:15 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.61 | mg/L | EPA 300 | K Baros | 3/30/2017 1:07 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 6.96 | SU | SM 4500-H+B | C Watts | 3/28/2017 17:20 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 794 | mg/L | SM2540C | C Watts | 3/31/2017 17:00 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 4/4/2017 12:22 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 157 | mg/L | EPA 300 | K Baros | 3/30/2017 1:07 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 4/20/2017 7:47 | | | | | <input checked="" type="checkbox"/> | ARS International |



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BatchNo: 53213

Sample Report Information



| | | | |
|------------------------------|-------------------------|-----------------|---------------|
| Sample ID: S17087163A | Client ID: BV 15 | Sampler: | Client |
|------------------------------|-------------------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman
Study: Water
Project: CCR Sampling
Location: BV 15
Notes:

Batch No: 53213
Sampled: 3/28/2017 1:08 PM
Type: Grab
Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 64 | mg/L | EPA 300 | K Baros | 3/29/2017 18:08 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 179 | mg/L | SM 2320 B | | 3/30/2017 14:21 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 10 | mg/L | SM 2320 B | | 3/30/2017 14:21 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 179 | mg/L | SM 2320 B | | 3/30/2017 14:21 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.82 | mg/L | EPA 300 | K Baros | 3/29/2017 18:08 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.31 | SU | SM 4500-H+B | C Watts | 3/28/2017 17:20 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 550 | mg/L | SM2540C | C Watts | 3/31/2017 17:00 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 4/4/2017 12:25 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 96 | mg/L | EPA 300 | K Baros | 3/29/2017 18:08 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 4/20/2017 7:47 | | | | | | <input checked="" type="checkbox"/> ARS International |



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Sample Report Information



| | | | | | |
|-------------------|-------------------|-------------------|--------------|-----------------|---------------|
| Sample ID: | S17087163B | Client ID: | BV 21 | Sampler: | Client |
|-------------------|-------------------|-------------------|--------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman

Batch No: 53213

Study: Water

Sampled: 3/28/2017

1:48 PM

Project: CCR Sampling

Location: BV 21

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 36 | mg/L | EPA 300 | K Baros | 3/29/2017 21:57 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 227 | mg/L | SM 2320 B | | 3/30/2017 14:29 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 10 | mg/L | SM 2320 B | | 3/30/2017 14:29 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 227 | mg/L | SM 2320 B | | 3/30/2017 14:29 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.61 | mg/L | EPA 300 | K Baros | 3/29/2017 21:57 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.07 | SU | SM 4500-H+B | C Watts | 3/28/2017 17:20 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 490 | mg/L | SM2540C | C Watts | 3/31/2017 17:00 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 4/4/2017 12:27 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 69 | mg/L | EPA 300 | K Baros | 3/29/2017 21:57 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 4/20/2017 7:47 | | | | | | <input checked="" type="checkbox"/> ARS International |



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Sample Report Information



| | | | | | |
|-------------------|-------------------|-------------------|--------------|-----------------|---------------|
| Sample ID: | S17087163C | Client ID: | BV 22 | Sampler: | Client |
|-------------------|-------------------|-------------------|--------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman

Batch No: 53213

Study: Water

Sampled: 3/28/2017

2:31 PM

Project: CCR Sampling

Location: BV 22

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 29 | mg/L | EPA 300 | K Baros | 3/30/2017 4:18 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 240 | mg/L | SM 2320 B | | 3/30/2017 14:38 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 10 | mg/L | SM 2320 B | | 3/30/2017 14:38 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 240 | mg/L | SM 2320 B | | 3/30/2017 14:38 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.52 | mg/L | EPA 300 | K Baros | 3/30/2017 4:18 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.15 | SU | SM 4500-H+B | C Watts | 3/28/2017 17:20 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 452 | mg/L | SM2540C | C Watts | 3/31/2017 17:00 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 4/4/2017 12:29 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 48 | mg/L | EPA 300 | K Baros | 3/30/2017 4:18 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 4/20/2017 7:47 | | | | | | <input checked="" type="checkbox"/> ARS International |



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QA Summary Report

| Parameter | ID | Result | Ref Value | Amt Added | LOQ | Qualifier | Control | Flag | Comments |
|------------------------------------|------------|-----------|-----------|-----------|------|-----------|---------|----------|-------------------------------|
| Method Blank | | | | | | | | | |
| - Chloride, IC | Q170941245 | <1mg/L | 0 | | | 1 | 1 | | Blank Acceptable. |
| 3/29/2017 14:20 | | | | | | | | | |
| Fluoride, IC | Q170941245 | <0.25mg/L | 0 | | 0.25 | | 0.25 | | Blank Acceptable. |
| 3/29/2017 14:20 | | | | | | | | | |
| Solids, Total Dissolved | Q170931326 | <25mg/L | 0 | | 10 | | 25 | | Blank Acceptable. |
| 3/31/2017 17:00 | | | | | | | | | |
| Sulfate, IC | Q170941245 | <1mg/L | 0 | | | 1 | 1 | | Blank Acceptable. |
| 3/29/2017 14:20 | | | | | | | | | |
| Duplicate | | | | | | | | | |
| pH (Standard Units) | Q170880810 | 6.92SU | 6.94 | | | 2 | 0.3% | 20 | Duplicate RPD Acceptable. |
| 3/28/2017 17:20 | | | | | | | | | |
| Solids, Total Dissolved | Q170931327 | 458mg/L | 452 | | 10 | 1.3% | | 20 | Duplicate RPD Acceptable. |
| 3/31/2017 17:00 | | | | | | | | | |
| Laboratory Control Standard | | | | | | | | | |
| - Chloride, IC | Q170941246 | 26.2mg/L | 25 | | | 1 | 104.8% | 80 - 120 | Standard Recovery Acceptable. |
| 3/29/2017 14:58 | | | | | | | 4.7% | 20 | Standard RPD Acceptable. |
| Fluoride, IC | Q170941246 | 2.1mg/L | 2 | | 0.25 | 105.0% | | 80 - 120 | Standard Recovery Acceptable. |
| 3/29/2017 14:58 | | | | | | 4.9% | | 20 | Standard RPD Acceptable. |
| pH (Standard Units) | Q170880809 | 7.01SU | 7 | | | 2 | 100.1% | 80 - 120 | Standard Recovery Acceptable. |
| 3/28/2017 17:20 | | | | | | | 0.1% | 20 | Standard RPD Acceptable. |
| Sulfate, IC | Q170941246 | 26.6mg/L | 25 | | | 1 | 106.4% | 80 - 120 | Standard Recovery Acceptable. |
| 3/29/2017 14:58 | | | | | | | 6.2% | 20 | Standard RPD Acceptable. |
| Matrix Spike | | | | | | | | | |
| - Chloride, IC | Q17094124A | 288mg/L | 278 | 250 | | 1 | 104.0% | 80 - 120 | Spike Recovery Acceptable. |
| 3/30/2017 5:34 | | | | | | | 3.5% | 20 | Spike RPD Acceptable. |
| Fluoride, IC | Q17094124A | 19.9mg/L | 20.55 | 20 | 0.25 | 96.8% | | 80 - 120 | Spike Recovery Acceptable. |
| 3/30/2017 5:34 | | | | | | 3.2% | | 20 | Spike RPD Acceptable. |
| Sulfate, IC | Q17094124A | 306mg/L | 297.1 | 250 | | 1 | 103.6% | 70 - 130 | Spike Recovery Acceptable. |
| 3/30/2017 5:34 | | | | | | | 3.0% | 20 | Spike RPD Acceptable. |
| Matrix Spike Dup | | | | | | | | | |
| - Chloride, IC | Q17094124B | 288mg/L | 278.4 | 250 | | 1 | 103.8% | 80 - 120 | Spike Recovery Acceptable. |
| 3/30/2017 6:12 | | | | | | | 3.4% | 20 | Spike RPD Acceptable. |
| Fluoride, IC | Q17094124B | 19.9mg/L | 20.55 | 20 | 0.25 | 96.8% | | 80 - 120 | Spike Recovery Acceptable. |
| 3/30/2017 6:12 | | | | | | 3.2% | | 20 | Spike RPD Acceptable. |
| Sulfate, IC | Q17094124B | 308mg/L | 297.1 | 250 | | 1 | 104.4% | 70 - 130 | Spike Recovery Acceptable. |
| 3/30/2017 6:12 | | | | | | | 3.6% | 20 | Spike RPD Acceptable. |



B Environmental, LLC.

1606 E Brazos, Suite D

Victoria TX

77901

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B Environmental, LLC.
1606 E Brazos, Suite D


BatchNo:

53213

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Victoria TX 77901

Flag and Qualifier Legend

 *Negative - Result Detected*


MDL = Method Detection Limit

DF = Dilution Factor

 *Caution - Problem Detected*


LOQ = Limit of Quantitation

j = Analyte detected between MDL and LOQ

 *Warning - Null Value*

S = surrogate standard out of limit

H = sample out of hold time

 **MS, MSD, RPD- Failure may occur due to matrix interference, data released per QA plan**

Wednesday, May 03, 2017

B Environmental - LDMS QA Report Summary

Note:

THANK YOU!



B Environmental, LLC.

1606 E Brazos, Suite D

Victoria TX

77901

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DHL Analytical, Inc.

Date: 05-Apr-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Lab Order: 1703229

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition and Standard Methods.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives except where noted in the following. For Total Metals Analysis, the recoveries of up to four analytes for the Matrix Spike and Matrix Spike Duplicate (1703221-01A MS/MSD) were below the method control limits. This is flagged accordingly in the QC Summary Report. These analytes were within method control limits in the associated LCS. No further corrective action was taken.

For Total Metals Analysis, the recovery of Boron for the Post Digestion Spike (1703221-01A PDS) was below the method control limits. This is flagged accordingly in the QC Summary Report. This analyte was within method control limits in the associated SD. No further corrective action was taken.

For Total/Dissolved Metals Analysis, the results of dissolved Lithium/Molybdenum for four samples was slightly higher than the results of total Lithium/Molybdenum. The results were within acceptable analytical variation limits. No further corrective action was taken.

DHL Analytical, Inc.

Date: 05-Apr-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (53213)
Lab Order: 1703229

Client Sample ID: Blank
Lab ID: 1703229-01
Alternate ID: S170871632
Collection Date: 03/28/17 03:26 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|------|---------------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | | Analyst: CVD | | |
| Dissolved Lithium | <0.00500 | 0.00500 | 0.0100 | | mg/L | 1 | 04/03/17 02:01 PM |
| Dissolved Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/03/17 02:01 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | | Analyst: CVD | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 04/03/17 01:03 PM |
| Arsenic | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/03/17 01:03 PM |
| Barium | <0.00300 | 0.00300 | 0.0100 | | mg/L | 1 | 04/03/17 01:03 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/03/17 01:03 PM |
| Boron | 0.0196 | 0.0100 | 0.0300 | J | mg/L | 1 | 04/03/17 01:03 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/03/17 01:03 PM |
| Calcium | <0.100 | 0.100 | 0.300 | | mg/L | 1 | 04/03/17 03:59 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/03/17 01:03 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 04/03/17 01:03 PM |
| Lead | 0.000429 | 0.000300 | 0.00100 | J | mg/L | 1 | 04/03/17 01:03 PM |
| Lithium | <0.00500 | 0.00500 | 0.0100 | | mg/L | 1 | 04/03/17 01:03 PM |
| Magnesium | <0.100 | 0.100 | 0.300 | | mg/L | 1 | 04/03/17 01:03 PM |
| Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/03/17 01:03 PM |
| Potassium | <0.100 | 0.100 | 0.300 | | mg/L | 1 | 04/03/17 01:03 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/03/17 01:03 PM |
| Sodium | <0.100 | 0.100 | 0.300 | | mg/L | 1 | 04/03/17 03:59 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 04/03/17 01:03 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | Analyst: AH | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 04/04/17 12:15 PM |
| ALKALINITY | | M2320 B | | | Analyst: BTJ | | |
| Alkalinity, Bicarbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.31 | 1 | 03/30/17 01:46 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.31 | 1 | 03/30/17 01:46 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.31 | 1 | 03/30/17 01:46 PM |
| Alkalinity, Total (As CaCO3) | <20.0 | 20.0 | 20.0 | | mg/L @ pH 4.31 | 1 | 03/30/17 01:46 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit

B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 05-Apr-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (53213)
Lab Order: 1703229

Client Sample ID: MW 8
Lab ID: 1703229-02
Alternate ID: S170871635
Collection Date: 03/28/17 03:06 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|-----------|----------------|----------|------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | | | | Analyst: CVD |
| Dissolved Lithium | 0.0115 | 0.00500 | 0.0100 | | mg/L | 1 | 04/03/17 02:03 PM |
| Dissolved Molybdenum | 0.0154 | 0.00200 | 0.00500 | | mg/L | 1 | 04/03/17 02:03 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | | | | Analyst: CVD |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 04/03/17 01:05 PM |
| Arsenic | 0.00839 | 0.00200 | 0.00500 | | mg/L | 1 | 04/03/17 01:05 PM |
| Barium | 0.0623 | 0.00300 | 0.0100 | | mg/L | 1 | 04/03/17 01:05 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/03/17 01:05 PM |
| Boron | 1.20 | 0.0100 | 0.0300 | | mg/L | 1 | 04/03/17 01:05 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/03/17 01:05 PM |
| Calcium | 7.76 | 0.100 | 0.300 | | mg/L | 1 | 04/03/17 04:01 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/03/17 01:05 PM |
| Cobalt | 0.0236 | 0.00300 | 0.00500 | | mg/L | 1 | 04/03/17 01:05 PM |
| Lead | 0.000835 | 0.000300 | 0.00100 | J | mg/L | 1 | 04/03/17 01:05 PM |
| Lithium | 0.0111 | 0.00500 | 0.0100 | | mg/L | 1 | 04/03/17 01:05 PM |
| Magnesium | 12.9 | 0.100 | 0.300 | | mg/L | 1 | 04/03/17 01:05 PM |
| Molybdenum | 0.0154 | 0.00200 | 0.00500 | | mg/L | 1 | 04/03/17 01:05 PM |
| Potassium | 0.954 | 0.100 | 0.300 | | mg/L | 1 | 04/03/17 01:05 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/03/17 01:05 PM |
| Sodium | 8.96 | 0.100 | 0.300 | | mg/L | 1 | 04/03/17 04:01 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 04/03/17 01:05 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | | | Analyst: AH |
| Mercury | <0.000800 | 0.000800 | 0.000200 | | mg/L | 1 | 04/04/17 12:18 PM |
| ALKALINITY | | M2320 B | | | | | Analyst: BTJ |
| Alkalinity, Bicarbonate (As CaCO3) | 268 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 03/30/17 01:56 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 03/30/17 01:56 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 03/30/17 01:56 PM |
| Alkalinity, Total (As CaCO3) | 268 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 03/30/17 01:56 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 05-Apr-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (53213)
Lab Order: 1703229

Client Sample ID: Dup
Lab ID: 1703229-03
Alternate ID: S170871637
Collection Date: 03/28/17
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | | | | Analyst: CVD |
| Dissolved Lithium | 0.0106 | 0.00500 | 0.0100 | | mg/L | 1 | 04/03/17 02:05 PM |
| Dissolved Molybdenum | 0.0154 | 0.00200 | 0.00500 | | mg/L | 1 | 04/03/17 02:05 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | | | | Analyst: CVD |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 04/03/17 01:07 PM |
| Arsenic | 0.00830 | 0.00200 | 0.00500 | | mg/L | 1 | 04/03/17 01:07 PM |
| Barium | 0.0623 | 0.00300 | 0.0100 | | mg/L | 1 | 04/03/17 01:07 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/03/17 01:07 PM |
| Boron | 1.25 | 0.0100 | 0.0300 | | mg/L | 1 | 04/03/17 01:07 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/03/17 01:07 PM |
| Calcium | 7.92 | 0.100 | 0.300 | | mg/L | 1 | 04/03/17 04:02 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/03/17 01:07 PM |
| Cobalt | 0.0240 | 0.00300 | 0.00500 | | mg/L | 1 | 04/03/17 01:07 PM |
| Lead | 0.00156 | 0.000300 | 0.00100 | | mg/L | 1 | 04/03/17 01:07 PM |
| Lithium | 0.0115 | 0.00500 | 0.0100 | | mg/L | 1 | 04/03/17 01:07 PM |
| Magnesium | 13.1 | 0.100 | 0.300 | | mg/L | 1 | 04/03/17 01:07 PM |
| Molybdenum | 0.0155 | 0.00200 | 0.00500 | | mg/L | 1 | 04/03/17 01:07 PM |
| Potassium | 0.968 | 0.100 | 0.300 | | mg/L | 1 | 04/03/17 01:07 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/03/17 01:07 PM |
| Sodium | 9.15 | 0.100 | 0.300 | | mg/L | 1 | 04/03/17 04:02 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 04/03/17 01:07 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | | | Analyst: AH |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 04/04/17 12:20 PM |
| ALKALINITY | | M2320 B | | | | | Analyst: BTJ |
| Alkalinity, Bicarbonate (As CaCO3) | 267 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 03/30/17 02:05 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 03/30/17 02:05 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 03/30/17 02:05 PM |
| Alkalinity, Total (As CaCO3) | 267 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 03/30/17 02:05 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 05-Apr-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (53213)
Lab Order: 1703229

Client Sample ID: MW 4
Lab ID: 1703229-04
Alternate ID: S170871638
Collection Date: 03/28/17 11:27 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: CVD | | | |
| Dissolved Lithium | 0.0179 | 0.00500 | 0.0100 | | mg/L | 1 | 04/03/17 02:06 PM |
| Dissolved Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/03/17 02:06 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: CVD | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 04/03/17 01:08 PM |
| Arsenic | 0.00738 | 0.00200 | 0.00500 | | mg/L | 1 | 04/03/17 01:08 PM |
| Barium | 0.0575 | 0.00300 | 0.0100 | | mg/L | 1 | 04/03/17 01:08 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/03/17 01:08 PM |
| Boron | 0.287 | 0.0100 | 0.0300 | | mg/L | 1 | 04/03/17 01:08 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/03/17 01:08 PM |
| Calcium | 9.14 | 0.100 | 0.300 | | mg/L | 1 | 04/03/17 04:04 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/03/17 01:08 PM |
| Cobalt | 0.00670 | 0.00300 | 0.00500 | | mg/L | 1 | 04/03/17 01:08 PM |
| Lead | 0.000563 | 0.000300 | 0.00100 | J | mg/L | 1 | 04/03/17 01:08 PM |
| Lithium | 0.0192 | 0.00500 | 0.0100 | | mg/L | 1 | 04/03/17 01:08 PM |
| Magnesium | 18.2 | 0.100 | 0.300 | | mg/L | 1 | 04/03/17 01:08 PM |
| Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/03/17 01:08 PM |
| Potassium | 1.38 | 0.100 | 0.300 | | mg/L | 1 | 04/03/17 01:08 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/03/17 01:08 PM |
| Sodium | 11.1 | 0.100 | 0.300 | | mg/L | 1 | 04/03/17 04:04 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 04/03/17 01:08 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 04/04/17 12:22 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 248 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 03/30/17 02:15 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 03/30/17 02:15 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 03/30/17 02:15 PM |
| Alkalinity, Total (As CaCO3) | 248 | 20.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 03/30/17 02:15 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern
 J Analyte detected between MDL and RL
 MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 05-Apr-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (53213)
Lab Order: 1703229

Client Sample ID: BV 15
Lab ID: 1703229-05
Alternate ID: S17087163A
Collection Date: 03/28/17 01:08 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|------|----------------|----|---------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | | | | Analyst: CVD |
| Dissolved Lithium | 0.00670 | 0.00500 | 0.0100 | J | mg/L | 1 | 04/03/17 02:08 PM |
| Dissolved Molybdenum | 0.0183 | 0.00200 | 0.00500 | | mg/L | 1 | 04/03/17 02:08 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | | | | Analyst: CVD |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 04/03/17 01:10 PM |
| Arsenic | 0.00864 | 0.00200 | 0.00500 | | mg/L | 1 | 04/03/17 01:10 PM |
| Barium | 0.0525 | 0.00300 | 0.0100 | | mg/L | 1 | 04/03/17 01:10 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/03/17 01:10 PM |
| Boron | 1.32 | 0.0100 | 0.0300 | | mg/L | 1 | 04/03/17 01:10 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/03/17 01:10 PM |
| Calcium | 6.49 | 0.100 | 0.300 | | mg/L | 1 | 04/03/17 04:06 PM |
| Chromium | 0.00213 | 0.00200 | 0.00500 | J | mg/L | 1 | 04/03/17 01:10 PM |
| Cobalt | 0.0139 | 0.00300 | 0.00500 | | mg/L | 1 | 04/03/17 01:10 PM |
| Lead | 0.00475 | 0.000300 | 0.00100 | | mg/L | 1 | 04/03/17 01:10 PM |
| Lithium | 0.00833 | 0.00500 | 0.0100 | J | mg/L | 1 | 04/03/17 01:10 PM |
| Magnesium | 9.33 | 0.100 | 0.300 | | mg/L | 1 | 04/03/17 01:10 PM |
| Molybdenum | 0.0180 | 0.00200 | 0.00500 | | mg/L | 1 | 04/03/17 01:10 PM |
| Potassium | 1.14 | 0.100 | 0.300 | | mg/L | 1 | 04/03/17 01:10 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/03/17 01:10 PM |
| Sodium | 7.81 | 0.100 | 0.300 | | mg/L | 1 | 04/03/17 04:06 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 04/03/17 01:10 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | | | Analyst: AH |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 04/04/17 12:25 PM |
| ALKALINITY | | M2320 B | | | | | Analyst: BTJ |
| Alkalinity, Bicarbonate (As CaCO3) | 179 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 03/30/17 02:21 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 03/30/17 02:21 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 03/30/17 02:21 PM |
| Alkalinity, Total (As CaCO3) | 179 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 03/30/17 02:21 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 05-Apr-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (53213)
Lab Order: 1703229

Client Sample ID: BV 21
Lab ID: 1703229-06
Alternate ID: S17087163B
Collection Date: 03/28/17 01:48 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|------|----------------|----|---------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | | | | Analyst: CVD |
| Dissolved Lithium | <0.00500 | 0.00500 | 0.0100 | | mg/L | 1 | 04/03/17 02:10 PM |
| Dissolved Molybdenum | 0.00303 | 0.00200 | 0.00500 | J | mg/L | 1 | 04/03/17 02:10 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | | | | Analyst: CVD |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 04/03/17 01:12 PM |
| Arsenic | 0.0954 | 0.00200 | 0.00500 | | mg/L | 1 | 04/03/17 01:12 PM |
| Barium | 0.0963 | 0.00300 | 0.0100 | | mg/L | 1 | 04/03/17 01:12 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/03/17 01:12 PM |
| Boron | 0.651 | 0.0100 | 0.0300 | | mg/L | 1 | 04/03/17 01:12 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/03/17 01:12 PM |
| Calcium | 6.89 | 0.100 | 0.300 | | mg/L | 1 | 04/03/17 04:08 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/03/17 01:12 PM |
| Cobalt | 0.00830 | 0.00300 | 0.00500 | | mg/L | 1 | 04/03/17 01:12 PM |
| Lead | 0.000668 | 0.000300 | 0.00100 | J | mg/L | 1 | 04/03/17 01:12 PM |
| Lithium | 0.00628 | 0.00500 | 0.0100 | J | mg/L | 1 | 04/03/17 01:12 PM |
| Magnesium | 8.45 | 0.100 | 0.300 | | mg/L | 1 | 04/03/17 01:12 PM |
| Molybdenum | 0.00295 | 0.00200 | 0.00500 | J | mg/L | 1 | 04/03/17 01:12 PM |
| Potassium | 0.756 | 0.100 | 0.300 | | mg/L | 1 | 04/03/17 01:12 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/03/17 01:12 PM |
| Sodium | 6.39 | 0.100 | 0.300 | | mg/L | 1 | 04/03/17 04:08 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 04/03/17 01:12 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | | | Analyst: AH |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 04/04/17 12:27 PM |
| ALKALINITY | | M2320 B | | | | | Analyst: BTJ |
| Alkalinity, Bicarbonate (As CaCO3) | 227 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 03/30/17 02:29 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 03/30/17 02:29 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 03/30/17 02:29 PM |
| Alkalinity, Total (As CaCO3) | 227 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 03/30/17 02:29 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 05-Apr-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR Sampling (53213)
Lab Order: 1703229

Client Sample ID: BV 22
Lab ID: 1703229-07
Alternate ID: S17087163C
Collection Date: 03/28/17 02:31 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: CVD | | | |
| Dissolved Lithium | 0.00682 | 0.00500 | 0.0100 | J | mg/L | 1 | 04/03/17 02:12 PM |
| Dissolved Molybdenum | 0.00780 | 0.00200 | 0.00500 | | mg/L | 1 | 04/03/17 02:12 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: CVD | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 04/03/17 01:14 PM |
| Arsenic | 0.00698 | 0.00200 | 0.00500 | | mg/L | 1 | 04/03/17 01:14 PM |
| Barium | 0.0466 | 0.00300 | 0.0100 | | mg/L | 1 | 04/03/17 01:14 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/03/17 01:14 PM |
| Boron | 0.650 | 0.0100 | 0.0300 | | mg/L | 1 | 04/03/17 01:14 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/03/17 01:14 PM |
| Calcium | 6.76 | 0.100 | 0.300 | | mg/L | 1 | 04/03/17 04:10 PM |
| Chromium | 0.00247 | 0.00200 | 0.00500 | J | mg/L | 1 | 04/03/17 01:14 PM |
| Cobalt | 0.00340 | 0.00300 | 0.00500 | J | mg/L | 1 | 04/03/17 01:14 PM |
| Lead | 0.00135 | 0.000300 | 0.00100 | | mg/L | 1 | 04/03/17 01:14 PM |
| Lithium | 0.00764 | 0.00500 | 0.0100 | J | mg/L | 1 | 04/03/17 01:14 PM |
| Magnesium | 10.3 | 0.100 | 0.300 | | mg/L | 1 | 04/03/17 01:14 PM |
| Molybdenum | 0.00765 | 0.00200 | 0.00500 | | mg/L | 1 | 04/03/17 01:14 PM |
| Potassium | 0.946 | 0.100 | 0.300 | | mg/L | 1 | 04/03/17 01:14 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/03/17 01:14 PM |
| Sodium | 6.25 | 0.100 | 0.300 | | mg/L | 1 | 04/03/17 04:10 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 04/03/17 01:14 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 04/04/17 12:29 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 240 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 03/30/17 02:38 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 03/30/17 02:38 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 03/30/17 02:38 PM |
| Alkalinity, Total (As CaCO3) | 240 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 03/30/17 02:38 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 05-Apr-17

CLIENT: B-Environmental
 Work Order: 1703229
 Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_170404A

The QC data in batch 79772 applies to the following samples: 1703229-01A, 1703229-02A, 1703229-03A, 1703229-04A, 1703229-05A, 1703229-06A, 1703229-07A

| | | | | | | | | | | |
|-----------|------------|-----------|-------------------|----------------|----------------------|------------|-----------|------|----------|------|
| Sample ID | MB-79772 | Batch ID: | 79772 | TestNo: | SW7470A | Units: | mg/L | | | |
| SampType: | MBLK | Run ID: | CETAC2_HG_170404A | Analysis Date: | 4/4/2017 12:09:11 PM | Prep Date: | 3/30/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | <0.0000800 | 0.000200 | | | | | | | | |

| | | | | | | | | | | |
|-----------|-----------|-----------|-------------------|----------------|----------------------|------------|-----------|------|----------|------|
| Sample ID | LCS-79772 | Batch ID: | 79772 | TestNo: | SW7470A | Units: | mg/L | | | |
| SampType: | LCS | Run ID: | CETAC2_HG_170404A | Analysis Date: | 4/4/2017 12:11:27 PM | Prep Date: | 3/30/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | 0.00195 | 0.000200 | 0.00200 | 0 | 97.5 | 85 | 115 | | | |

| | | | | | | | | | | |
|-----------|------------|-----------|-------------------|----------------|----------------------|------------|-----------|------|----------|------|
| Sample ID | LCSD-79772 | Batch ID: | 79772 | TestNo: | SW7470A | Units: | mg/L | | | |
| SampType: | LCSD | Run ID: | CETAC2_HG_170404A | Analysis Date: | 4/4/2017 12:13:43 PM | Prep Date: | 3/30/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | 0.00198 | 0.000200 | 0.00200 | 0 | 99.0 | 85 | 115 | 1.53 | 15 | |

| | | | | | | | | | | |
|-----------|----------------|-----------|-------------------|----------------|----------------------|------------|-----------|------|----------|------|
| Sample ID | 1703238-05B SD | Batch ID: | 79772 | TestNo: | SW7470A | Units: | mg/L | | | |
| SampType: | SD | Run ID: | CETAC2_HG_170404A | Analysis Date: | 4/4/2017 12:47:46 PM | Prep Date: | 3/30/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | <0.000400 | 0.00100 | 0 | 0 | | | | 0 | 10 | |

| | | | | | | | | | | |
|-----------|-----------------|-----------|-------------------|----------------|----------------------|------------|-----------|------|----------|------|
| Sample ID | 1703238-05B PDS | Batch ID: | 79772 | TestNo: | SW7470A | Units: | mg/L | | | |
| SampType: | PDS | Run ID: | CETAC2_HG_170404A | Analysis Date: | 4/4/2017 12:50:02 PM | Prep Date: | 3/30/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | 0.00239 | 0.000200 | 0.00250 | 0 | 95.6 | 85 | 115 | | | |

| | | | | | | | | | | |
|-----------|----------------|-----------|-------------------|----------------|----------------------|------------|-----------|------|----------|------|
| Sample ID | 1703238-05B MS | Batch ID: | 79772 | TestNo: | SW7470A | Units: | mg/L | | | |
| SampType: | MS | Run ID: | CETAC2_HG_170404A | Analysis Date: | 4/4/2017 12:52:18 PM | Prep Date: | 3/30/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | 0.00199 | 0.000200 | 0.00200 | 0 | 99.5 | 80 | 120 | | | |

| | | | | | | | | | | |
|-----------|-----------------|-----------|-------------------|----------------|----------------------|------------|-----------|------|----------|------|
| Sample ID | 1703238-05B MSD | Batch ID: | 79772 | TestNo: | SW7470A | Units: | mg/L | | | |
| SampType: | MSD | Run ID: | CETAC2_HG_170404A | Analysis Date: | 4/4/2017 12:54:34 PM | Prep Date: | 3/30/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | 0.00203 | 0.000200 | 0.00200 | 0 | 102 | 80 | 120 | 1.99 | 15 | |

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
 J Analyte detected between MDL and RL MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
 RL Reporting Limit S Spike Recovery outside control limits
 J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1703229
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170403B

The QC data in batch 79771 applies to the following samples: 1703229-01A, 1703229-02A, 1703229-03A, 1703229-04A, 1703229-05A, 1703229-06A, 1703229-07A

| | | | |
|---------------------------|--------------------------------|--|-----------------------------|
| Sample ID MB-79771 | Batch ID: 79771 | TestNo: SW6020A | Units: mg/L |
| SampType: MBLK | Run ID: ICP-MS5_170403B | Analysis Date: 4/3/2017 12:19:00 PM | Prep Date: 3/30/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|-----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | <0.000800 | 0.00250 | | | | | | | | |
| Arsenic | <0.00200 | 0.00500 | | | | | | | | |
| Barium | <0.00300 | 0.0100 | | | | | | | | |
| Beryllium | <0.000300 | 0.00100 | | | | | | | | |
| Boron | <0.0100 | 0.0300 | | | | | | | | |
| Cadmium | <0.000300 | 0.00100 | | | | | | | | |
| Calcium | <0.100 | 0.300 | | | | | | | | |
| Chromium | <0.00200 | 0.00500 | | | | | | | | |
| Cobalt | <0.00300 | 0.00500 | | | | | | | | |
| Lead | <0.000300 | 0.00100 | | | | | | | | |
| Lithium | <0.00500 | 0.0100 | | | | | | | | |
| Magnesium | <0.100 | 0.300 | | | | | | | | |
| Molybdenum | <0.00200 | 0.00500 | | | | | | | | |
| Potassium | <0.100 | 0.300 | | | | | | | | |
| Selenium | <0.00200 | 0.00500 | | | | | | | | |
| Thallium | <0.000500 | 0.00150 | | | | | | | | |

| | | | |
|----------------------------|--------------------------------|--|-----------------------------|
| Sample ID LCS-79771 | Batch ID: 79771 | TestNo: SW6020A | Units: mg/L |
| SampType: LCS | Run ID: ICP-MS5_170403B | Analysis Date: 4/3/2017 12:21:00 PM | Prep Date: 3/30/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.188 | 0.00250 | 0.200 | 0 | 94.0 | 80 | 120 | | | |
| Arsenic | 0.192 | 0.00500 | 0.200 | 0 | 95.9 | 80 | 120 | | | |
| Barium | 0.193 | 0.0100 | 0.200 | 0 | 96.7 | 80 | 120 | | | |
| Beryllium | 0.189 | 0.00100 | 0.200 | 0 | 94.4 | 80 | 120 | | | |
| Boron | 0.191 | 0.0300 | 0.200 | 0 | 95.4 | 80 | 120 | | | |
| Cadmium | 0.185 | 0.00100 | 0.200 | 0 | 92.3 | 80 | 120 | | | |
| Calcium | 4.72 | 0.300 | 5.00 | 0 | 94.3 | 80 | 120 | | | |
| Chromium | 0.193 | 0.00500 | 0.200 | 0 | 96.6 | 80 | 120 | | | |
| Cobalt | 0.199 | 0.00500 | 0.200 | 0 | 99.3 | 80 | 120 | | | |
| Lead | 0.190 | 0.00100 | 0.200 | 0 | 94.8 | 80 | 120 | | | |
| Lithium | 0.190 | 0.0100 | 0.200 | 0 | 94.8 | 80 | 120 | | | |
| Magnesium | 4.85 | 0.300 | 5.00 | 0 | 97.0 | 80 | 120 | | | |
| Molybdenum | 0.181 | 0.00500 | 0.200 | 0 | 90.3 | 80 | 120 | | | |
| Potassium | 4.75 | 0.300 | 5.00 | 0 | 95.1 | 80 | 120 | | | |
| Selenium | 0.194 | 0.00500 | 0.200 | 0 | 97.2 | 80 | 120 | | | |
| Thallium | 0.196 | 0.00150 | 0.200 | 0 | 97.8 | 80 | 120 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL

DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1703229
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170403B

| | | | |
|-------------------------------|--------------------------------|--|-----------------------------|
| Sample ID: LCS-D-79771 | Batch ID: 79771 | TestNo: SW6020A | Units: mg/L |
| SampType: LCS-D | Run ID: ICP-MS5_170403B | Analysis Date: 4/3/2017 12:23:00 PM | Prep Date: 3/30/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | 0.189 | 0.00250 | 0.200 | 0 | 94.7 | 80 | 120 | 0.701 | 15 | |
| Arsenic | 0.194 | 0.00500 | 0.200 | 0 | 97.0 | 80 | 120 | 1.17 | 15 | |
| Barium | 0.196 | 0.0100 | 0.200 | 0 | 98.1 | 80 | 120 | 1.41 | 15 | |
| Beryllium | 0.192 | 0.00100 | 0.200 | 0 | 96.2 | 80 | 120 | 1.97 | 15 | |
| Boron | 0.198 | 0.0300 | 0.200 | 0 | 98.9 | 80 | 120 | 3.59 | 15 | |
| Cadmium | 0.187 | 0.00100 | 0.200 | 0 | 93.7 | 80 | 120 | 1.57 | 15 | |
| Calcium | 4.73 | 0.300 | 5.00 | 0 | 94.5 | 80 | 120 | 0.195 | 15 | |
| Chromium | 0.197 | 0.00500 | 0.200 | 0 | 98.7 | 80 | 120 | 2.17 | 15 | |
| Cobalt | 0.201 | 0.00500 | 0.200 | 0 | 100 | 80 | 120 | 1.01 | 15 | |
| Lead | 0.194 | 0.00100 | 0.200 | 0 | 96.9 | 80 | 120 | 2.16 | 15 | |
| Lithium | 0.201 | 0.0100 | 0.200 | 0 | 101 | 80 | 120 | 6.02 | 15 | |
| Magnesium | 4.88 | 0.300 | 5.00 | 0 | 97.6 | 80 | 120 | 0.596 | 15 | |
| Molybdenum | 0.183 | 0.00500 | 0.200 | 0 | 91.3 | 80 | 120 | 1.13 | 15 | |
| Potassium | 4.77 | 0.300 | 5.00 | 0 | 95.3 | 80 | 120 | 0.242 | 15 | |
| Selenium | 0.196 | 0.00500 | 0.200 | 0 | 98.2 | 80 | 120 | 1.02 | 15 | |
| Thallium | 0.202 | 0.00150 | 0.200 | 0 | 101 | 80 | 120 | 3.25 | 15 | |

| | | | |
|----------------------------------|--------------------------------|--|-----------------------------|
| Sample ID: 1703221-01A SD | Batch ID: 79771 | TestNo: SW6020A | Units: mg/L |
| SampType: SD | Run ID: ICP-MS5_170403B | Analysis Date: 4/3/2017 12:28:00 PM | Prep Date: 3/30/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|----------|---------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | <0.00400 | 0.0125 | 0 | 0 | | | | 0 | 10 | |
| Arsenic | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Barium | 0.0357 | 0.0500 | 0 | 0.0357 | | | | 0.053 | 10 | |
| Beryllium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Boron | 0.388 | 0.150 | 0 | 0.358 | | | | 7.90 | 10 | |
| Cadmium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Chromium | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Cobalt | <0.0150 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Lead | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Lithium | 0.136 | 0.0500 | 0 | 0.135 | | | | 0.050 | 10 | |
| Molybdenum | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Selenium | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Thallium | <0.00250 | 0.00750 | 0 | 0 | | | | 0 | 10 | |

| | | | |
|-----------------------------------|--------------------------------|--|-----------------------------|
| Sample ID: 1703221-01A PDS | Batch ID: 79771 | TestNo: SW6020A | Units: mg/L |
| SampType: PDS | Run ID: ICP-MS5_170403B | Analysis Date: 4/3/2017 12:45:00 PM | Prep Date: 3/30/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.200 | 0.00250 | 0.200 | 0 | 100 | 80 | 120 | | | |
| Arsenic | 0.191 | 0.00500 | 0.200 | 0 | 95.5 | 80 | 120 | | | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1703229
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170403B

| | | | |
|----------------------------------|--------------------------------|--|-----------------------------|
| Sample ID 1703221-01A PDS | Batch ID: 79771 | TestNo: SW6020A | Units: mg/L |
| SampType: PDS | Run ID: ICP-MS5_170403B | Analysis Date: 4/3/2017 12:45:00 PM | Prep Date: 3/30/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Barium | 0.228 | 0.0100 | 0.200 | 0.0357 | 96.2 | 80 | 120 | | | |
| Beryllium | 0.189 | 0.00100 | 0.200 | 0 | 94.6 | 80 | 120 | | | |
| Boron | 0.497 | 0.0300 | 0.200 | 0.358 | 69.3 | 80 | 120 | | | S |
| Cadmium | 0.182 | 0.00100 | 0.200 | 0 | 90.9 | 80 | 120 | | | |
| Chromium | 0.198 | 0.00500 | 0.200 | 0 | 99.2 | 80 | 120 | | | |
| Cobalt | 0.191 | 0.00500 | 0.200 | 0 | 95.3 | 80 | 120 | | | |
| Lead | 0.190 | 0.00100 | 0.200 | 0 | 94.8 | 80 | 120 | | | |
| Lithium | 0.322 | 0.0100 | 0.200 | 0.135 | 93.4 | 80 | 120 | | | |
| Molybdenum | 0.187 | 0.00500 | 0.200 | 0 | 93.7 | 80 | 120 | | | |
| Selenium | 0.183 | 0.00500 | 0.200 | 0 | 91.6 | 80 | 120 | | | |
| Thallium | 0.199 | 0.00150 | 0.200 | 0 | 99.6 | 80 | 120 | | | |

| | | | |
|---------------------------------|--------------------------------|--|-----------------------------|
| Sample ID 1703221-01A MS | Batch ID: 79771 | TestNo: SW6020A | Units: mg/L |
| SampType: MS | Run ID: ICP-MS5_170403B | Analysis Date: 4/3/2017 12:47:00 PM | Prep Date: 3/30/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.194 | 0.00250 | 0.200 | 0 | 97.2 | 80 | 120 | | | |
| Arsenic | 0.190 | 0.00500 | 0.200 | 0 | 95.1 | 80 | 120 | | | |
| Barium | 0.234 | 0.0100 | 0.200 | 0.0357 | 99.0 | 80 | 120 | | | |
| Beryllium | 0.192 | 0.00100 | 0.200 | 0 | 96.2 | 80 | 120 | | | |
| Boron | 0.515 | 0.0300 | 0.200 | 0.358 | 78.3 | 80 | 120 | | | S |
| Cadmium | 0.183 | 0.00100 | 0.200 | 0 | 91.4 | 80 | 120 | | | |
| Calcium | 437 | 0.300 | 5.00 | 447 | -187 | 80 | 120 | | | S |
| Chromium | 0.196 | 0.00500 | 0.200 | 0 | 97.9 | 80 | 120 | | | |
| Cobalt | 0.190 | 0.00500 | 0.200 | 0 | 95.1 | 80 | 120 | | | |
| Lead | 0.192 | 0.00100 | 0.200 | 0 | 95.8 | 80 | 120 | | | |
| Lithium | 0.330 | 0.0100 | 0.200 | 0.135 | 97.1 | 80 | 120 | | | |
| Magnesium | 128 | 0.300 | 5.00 | 125 | 47.4 | 80 | 120 | | | S |
| Molybdenum | 0.187 | 0.00500 | 0.200 | 0 | 93.4 | 80 | 120 | | | |
| Potassium | 14.4 | 0.300 | 5.00 | 9.74 | 93.6 | 80 | 120 | | | |
| Selenium | 0.181 | 0.00500 | 0.200 | 0 | 90.5 | 80 | 120 | | | |
| Thallium | 0.205 | 0.00150 | 0.200 | 0 | 102 | 80 | 120 | | | |

| | | | |
|----------------------------------|--------------------------------|--|-----------------------------|
| Sample ID 1703221-01A MSD | Batch ID: 79771 | TestNo: SW6020A | Units: mg/L |
| SampType: MSD | Run ID: ICP-MS5_170403B | Analysis Date: 4/3/2017 12:49:00 PM | Prep Date: 3/30/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|-----------|--------|---------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | 0.196 | 0.00250 | 0.200 | 0 | 97.9 | 80 | 120 | 0.714 | 15 | |
| Arsenic | 0.194 | 0.00500 | 0.200 | 0 | 97.2 | 80 | 120 | 2.17 | 15 | |
| Barium | 0.235 | 0.0100 | 0.200 | 0.0357 | 99.7 | 80 | 120 | 0.594 | 15 | |
| Beryllium | 0.197 | 0.00100 | 0.200 | 0 | 98.7 | 80 | 120 | 2.48 | 15 | |

- | | | |
|--------------------|--|---|
| Qualifiers: | B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified |
|--------------------|--|---|

CLIENT: B-Environmental
Work Order: 1703229
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170403B

| Sample ID | 1703221-01A MSD | Batch ID: | 79771 | TestNo: | SW6020A | Units: | mg/L | | | |
|------------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|-------|----------|------|
| SampType: | MSD | Run ID: | ICP-MS5_170403B | Analysis Date: | 4/3/2017 12:49:00 PM | Prep Date: | 3/30/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 0.532 | 0.0300 | 0.200 | 0.358 | 87.0 | 80 | 120 | 3.33 | 15 | |
| Cadmium | 0.186 | 0.00100 | 0.200 | 0 | 92.8 | 80 | 120 | 1.55 | 15 | |
| Calcium | 446 | 0.300 | 5.00 | 447 | -6.81 | 80 | 120 | 2.04 | 15 | S |
| Chromium | 0.200 | 0.00500 | 0.200 | 0 | 99.9 | 80 | 120 | 2.02 | 15 | |
| Cobalt | 0.196 | 0.00500 | 0.200 | 0 | 97.8 | 80 | 120 | 2.78 | 15 | |
| Lead | 0.197 | 0.00100 | 0.200 | 0 | 98.3 | 80 | 120 | 2.53 | 15 | |
| Lithium | 0.335 | 0.0100 | 0.200 | 0.135 | 99.6 | 80 | 120 | 1.50 | 15 | |
| Magnesium | 130 | 0.300 | 5.00 | 125 | 101 | 80 | 120 | 2.07 | 15 | |
| Molybdenum | 0.193 | 0.00500 | 0.200 | 0 | 96.3 | 80 | 120 | 3.03 | 15 | |
| Potassium | 14.5 | 0.300 | 5.00 | 9.74 | 95.6 | 80 | 120 | 0.685 | 15 | |
| Selenium | 0.188 | 0.00500 | 0.200 | 0 | 93.9 | 80 | 120 | 3.64 | 15 | |
| Thallium | 0.209 | 0.00150 | 0.200 | 0 | 105 | 80 | 120 | 2.17 | 15 | |

| Sample ID | MB-79771 | Batch ID: | 79771 | TestNo: | SW6020A | Units: | mg/L | | | |
|-----------|----------|-----------|-----------------|----------------|---------------------|------------|-----------|------|----------|------|
| SampType: | MBLK | Run ID: | ICP-MS5_170403B | Analysis Date: | 4/3/2017 3:08:00 PM | Prep Date: | 3/30/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Sodium | <0.100 | 0.300 | | | | | | | | |

| Sample ID | LCS-79771 | Batch ID: | 79771 | TestNo: | SW6020A | Units: | mg/L | | | |
|-----------|-----------|-----------|-----------------|----------------|---------------------|------------|-----------|------|----------|------|
| SampType: | LCS | Run ID: | ICP-MS5_170403B | Analysis Date: | 4/3/2017 3:09:00 PM | Prep Date: | 3/30/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Sodium | 5.16 | 0.300 | 5.00 | 0 | 103 | 80 | 120 | | | |

| Sample ID | LCSD-79771 | Batch ID: | 79771 | TestNo: | SW6020A | Units: | mg/L | | | |
|-----------|------------|-----------|-----------------|----------------|---------------------|------------|-----------|-------|----------|------|
| SampType: | LCSD | Run ID: | ICP-MS5_170403B | Analysis Date: | 4/3/2017 3:11:00 PM | Prep Date: | 3/30/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Sodium | 5.16 | 0.300 | 5.00 | 0 | 103 | 80 | 120 | 0.142 | 15 | |

| Sample ID | 1703221-01A SD | Batch ID: | 79771 | TestNo: | SW6020A | Units: | mg/L | | | |
|-----------|----------------|-----------|-----------------|----------------|---------------------|------------|-----------|-------|----------|------|
| SampType: | SD | Run ID: | ICP-MS5_170403B | Analysis Date: | 4/3/2017 3:16:00 PM | Prep Date: | 3/30/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Calcium | 450 | 150 | 0 | 452 | | | | 0.479 | 10 | |
| Magnesium | 134 | 150 | 0 | 134 | | | | 0.063 | 10 | |
| Sodium | 101 | 150 | 0 | 91.6 | | | | 9.35 | 10 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1703229
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170403B

| | | | | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|---------------------|------------|-----------|------|----------|------|
| Sample ID | 1703221-01A PDS | Batch ID: | 79771 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | PDS | Run ID: | ICP-MS5_170403B | Analysis Date: | 4/3/2017 3:34:00 PM | Prep Date: | 3/30/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|-----------|-----|------|-----|------|------|----|-----|--|--|--|
| Calcium | 917 | 30.0 | 500 | 452 | 93.0 | 80 | 120 | | | |
| Magnesium | 656 | 30.0 | 500 | 134 | 104 | 80 | 120 | | | |
| Sodium | 609 | 30.0 | 500 | 91.6 | 103 | 80 | 120 | | | |

| | | | | | | | | | | |
|-----------|----------------|-----------|-----------------|----------------|---------------------|------------|-----------|------|----------|------|
| Sample ID | 1703221-01A MS | Batch ID: | 79771 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | MS | Run ID: | ICP-MS5_170403B | Analysis Date: | 4/3/2017 4:15:00 PM | Prep Date: | 3/30/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|--------|------|------|------|------|------|----|-----|--|--|---|
| Sodium | 92.6 | 3.00 | 5.00 | 90.0 | 52.3 | 80 | 120 | | | S |
|--------|------|------|------|------|------|----|-----|--|--|---|

| | | | | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|---------------------|------------|-----------|------|----------|------|
| Sample ID | 1703221-01A MSD | Batch ID: | 79771 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | MSD | Run ID: | ICP-MS5_170403B | Analysis Date: | 4/3/2017 4:17:00 PM | Prep Date: | 3/30/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|--------|------|------|------|------|-----|----|-----|------|----|--|
| Sodium | 95.2 | 3.00 | 5.00 | 90.0 | 104 | 80 | 120 | 2.76 | 15 | |
|--------|------|------|------|------|-----|----|-----|------|----|--|

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1703229
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170403B

The QC data in batch 79781 applies to the following samples: 1703229-01B, 1703229-02B, 1703229-03B, 1703229-04B, 1703229-05B, 1703229-06B, 1703229-07B

| Sample ID MB-79781 | Batch ID: 79781 | TestNo: SW6020A | Units: mg/L | | | | | | | |
|---------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: MBLK | Run ID: ICP-MS5_170403B | Analysis Date: 4/3/2017 1:51:00 PM | Prep Date: 3/30/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | <0.00500 | 0.0100 | | | | | | | | |
| Molybdenum | <0.00200 | 0.00500 | | | | | | | | |

| Sample ID LCS-79781 | Batch ID: 79781 | TestNo: SW6020A | Units: mg/L | | | | | | | |
|----------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: LCS | Run ID: ICP-MS5_170403B | Analysis Date: 4/3/2017 1:52:00 PM | Prep Date: 3/30/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.211 | 0.0100 | 0.200 | 0 | 105 | 80 | 120 | | | |
| Molybdenum | 0.188 | 0.00500 | 0.200 | 0 | 93.9 | 80 | 120 | | | |

| Sample ID LCSD-79781 | Batch ID: 79781 | TestNo: SW6020A | Units: mg/L | | | | | | | |
|-----------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|-------|----------|------|
| SampType: LCSD | Run ID: ICP-MS5_170403B | Analysis Date: 4/3/2017 1:54:00 PM | Prep Date: 3/30/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.213 | 0.0100 | 0.200 | 0 | 107 | 80 | 120 | 1.07 | 15 | |
| Molybdenum | 0.188 | 0.00500 | 0.200 | 0 | 93.9 | 80 | 120 | 0.070 | 15 | |

| Sample ID 1703221-01B SD | Batch ID: 79781 | TestNo: SW6020A | Units: mg/L | | | | | | | |
|---------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: SD | Run ID: ICP-MS5_170403B | Analysis Date: 4/3/2017 1:59:00 PM | Prep Date: 3/30/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.146 | 0.0500 | 0 | 0.143 | | | | 2.20 | 10 | |
| Molybdenum | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |

| Sample ID 1703221-01B PDS | Batch ID: 79781 | TestNo: SW6020A | Units: mg/L | | | | | | | |
|----------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: PDS | Run ID: ICP-MS5_170403B | Analysis Date: 4/3/2017 2:17:00 PM | Prep Date: 3/30/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.342 | 0.0100 | 0.200 | 0.143 | 99.7 | 80 | 120 | | | |
| Molybdenum | 0.188 | 0.00500 | 0.200 | 0 | 94.1 | 80 | 120 | | | |

| Sample ID 1703221-01B MS | Batch ID: 79781 | TestNo: SW6020A | Units: mg/L | | | | | | | |
|---------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: MS | Run ID: ICP-MS5_170403B | Analysis Date: 4/3/2017 2:19:00 PM | Prep Date: 3/30/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.348 | 0.0100 | 0.200 | 0.143 | 102 | 80 | 120 | | | |
| Molybdenum | 0.191 | 0.00500 | 0.200 | 0 | 95.6 | 80 | 120 | | | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1703229
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170403B

| Sample ID | 1703221-01B MSD | Batch ID: | 79781 | TestNo: | SW6020A | Units: | mg/L | | | |
|------------|-----------------|-----------|-----------------|----------------|---------------------|------------|-----------|-------|----------|------|
| SampType: | MSD | Run ID: | ICP-MS5_170403B | Analysis Date: | 4/3/2017 2:20:00 PM | Prep Date: | 3/30/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.349 | 0.0100 | 0.200 | 0.143 | 103 | 80 | 120 | 0.502 | 15 | |
| Molybdenum | 0.194 | 0.00500 | 0.200 | 0 | 96.8 | 80 | 120 | 1.26 | 15 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL

DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1703229
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_170330B

The QC data in batch 79766 applies to the following samples: 1703229-01C, 1703229-02C, 1703229-03C, 1703229-04C, 1703229-05C, 1703229-06C, 1703229-07C

Sample ID **MB-79766** Batch ID: **79766** TestNo: **M2320 B** Units: **mg/L @ pH 4.2**
 SampType: **MBLK** Run ID: **TITRATOR_170330B** Analysis Date: **3/30/2017 10:23:00 AM** Prep Date: **3/30/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Total (As CaCO3) | <20.0 | 20.0 | | | | | | | | |

Sample ID **LCS-79766** Batch ID: **79766** TestNo: **M2320 B** Units: **mg/L @ pH 4.05**
 SampType: **LCS** Run ID: **TITRATOR_170330B** Analysis Date: **3/30/2017 10:27:00 AM** Prep Date: **3/30/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Total (As CaCO3) | 54.1 | 20.0 | 50.00 | 0 | 108 | 74 | 129 | | | |

Sample ID **1703218-01B-DUP** Batch ID: **79766** TestNo: **M2320 B** Units: **mg/L @ pH 4.52**
 SampType: **DUP** Run ID: **TITRATOR_170330B** Analysis Date: **3/30/2017 11:13:00 AM** Prep Date: **3/30/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | 279 | 20.0 | 0 | 279.9 | | | | 0.250 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | 279 | 20.0 | 0 | 279.9 | | | | 0.250 | 20 | |

Sample ID **1703218-02B-DUP** Batch ID: **79766** TestNo: **M2320 B** Units: **mg/L @ pH 4.54**
 SampType: **DUP** Run ID: **TITRATOR_170330B** Analysis Date: **3/30/2017 11:55:00 AM** Prep Date: **3/30/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | 493 | 20.0 | 0 | 490.1 | | | | 0.590 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | 493 | 20.0 | 0 | 490.1 | | | | 0.590 | 20 | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified



2609 North River Road, Port Allen, Louisiana 70767
 1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-00843

Request or PO Number: N/A

Client Sample ID: S170871632 (BATCH 53213)

ARS Sample ID: ARS1-17-00843-005

Sample Collection Date: 03/28/17

Date Received: 04/03/17

Sample Matrix: Aqueous

Report Date: 04/28/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 1.063 | 0.302 | 0.161 | 0.062 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 04/20/17 7:46 | SCAUSEY | 109% |
| Ra-228 | 0.905 | 0.755 | 1.199 | 0.557 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 04/13/17 13:03 | SCAUSEY | 105% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-00843

Request or PO Number: N/A

Client Sample ID: S170871635 (BATCH 53213)

ARS Sample ID: ARS1-17-00843-006

Sample Collection Date: 03/28/17

Date Received: 04/03/17

Sample Matrix: Aqueous

Report Date: 04/28/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.208 | 0.141 | 0.185 | 0.073 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 04/20/17 7:46 | SCAUSEY | 98% |
| Ra-228 | 0.244 | 0.748 | 1.310 | 0.609 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 04/13/17 13:03 | SCAUSEY | 88% |

Project Manager Review

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ARS Sample Delivery Group: AR51-17-00843

Request or PO Number: N/A

Client Sample ID: S170871637 (BATCH 53213)

ARS Sample ID: AR51-17-00843-007

Sample Collection Date: 03/28/17

Date Received: 04/03/17

Sample Matrix: Aqueous

Report Date: 04/28/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.102 | 0.109 | 0.168 | 0.065 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 04/20/17 7:46 | SCAUSEY | 103% |
| Ra-228 | 1.245 | 0.765 | 1.141 | 0.528 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 04/13/17 13:03 | SCAUSEY | 95% |

Project Manager Review

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2609 North River Road, Port Allen, Louisiana 70767
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ARS Sample Delivery Group: ARS1-17-00843

Request or PO Number: N/A

Client Sample ID: S170871638 (BATCH 53213)

ARS Sample ID: ARS1-17-00843-001

Sample Collection Date: 03/28/17

Date Received: 04/03/17

Sample Matrix: Aqueous

Report Date: 04/28/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.319 | 0.156 | 0.149 | 0.055 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 04/20/17 7:47 | SCAUSEY | 102% |
| Ra-228 | 0.141 | 0.703 | 1.249 | 0.579 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 04/13/17 13:03 | SCAUSEY | 89% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-00843

Request or PO Number: N/A

Client Sample ID: S17087163A (BATCH 53213)

ARS Sample ID: ARS1-17-00843-002

Sample Collection Date: 03/28/17

Date Received: 04/03/17

Sample Matrix: Aqueous

Report Date: 04/28/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.421 | 0.175 | 0.144 | 0.054 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 04/20/17 7:47 | SCAUSEY | 97% |
| Ra-228 | 0.607 | 0.698 | 1.153 | 0.534 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 04/13/17 13:03 | SCAUSEY | 91% |

Project Manager Review

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LELAP Certificate# 01949



2609 North River Road, Port Allen, Louisiana 70767
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ARS Sample Delivery Group: ARS1-17-00843

Request or PO Number: N/A

Client Sample ID: S17087163B (BATCH 53213)

ARS Sample ID: ARS1-17-00843-003

Sample Collection Date: 03/28/17

Date Received: 04/03/17

Sample Matrix: Aqueous

Report Date: 04/28/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.434 | 0.176 | 0.140 | 0.052 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 04/20/17 7:47 | SCAUSEY | 101% |
| Ra-228 | 0.956 | 0.729 | 1.139 | 0.527 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 04/13/17 13:03 | SCAUSEY | 100% |

Project Manager Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

LELAP Certificate# 01949



2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-00843

Request or PO Number: N/A

Client Sample ID: S17087163C (BATCH 53213)

ARS Sample ID: ARS1-17-00843-004

Sample Collection Date: 03/28/17

Date Received: 04/03/17

Sample Matrix: Aqueous

Report Date: 04/28/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.284 | 0.151 | 0.178 | 0.072 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 04/20/17 7:47 | SCAUSEY | 108% |
| Ra-228 | 0.334 | 0.704 | 1.214 | 0.565 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 04/13/17 13:03 | SCAUSEY | 110% |

Project Manager Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

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QC Results Report

2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

Sample Delivery Group: ARS1-17-00843;853

Laboratory Control Sample Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | LCS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|----------------------|
| ARS1-B17-00642 | LCS | RA-226 | 27.896 | 4.493 | 0.089 | 27.577 | N/A | pCi/L | ARS-010/EPA 903 | 4/20/17 7:46 | SC | 101 | 75%-125% |
| ARS1-B17-00642 | LCS | RA-228 | 37.823 | 6.300 | 1.095 | 39.784 | N/A | pCi/L | ARS-010/EPA 904 | 4/20/17 7:46 | SC | 95 | 75%-125% |

Blank Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|
| ARS1-B17-00642 | MBL | RA-226 | 0.003 | 0.042 | 0.091 | NA | U | pCi/L | ARS-010/EPA 903 | 4/20/17 7:46 | SC |
| ARS1-B17-00642 | MBL | RA-228 | 0.249 | 0.353 | 0.672 | NA | U | pCi/L | ARS-010/EPA 904 | 4/20/17 7:46 | SC |

RER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | RER | RER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-00642 | LCSD | RA-226 | 27.896 | 4.493 | 33.893 | 5.448 | N/A | pCi/L | ARS-010/EPA 903 | 4/20/17 7:46 | SC | 0.60 | < 1 |
| ARS1-B17-00642 | LCSD | RA-228 | 37.823 | 6.300 | 37.670 | 6.267 | N/A | pCi/L | ARS-010/EPA 904 | 4/20/17 7:46 | SC | 0.01 | < 1 |

DER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | DER | DER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-00642 | LCSD | RA-226 | 27.896 | 4.493 | 33.893 | 5.448 | N/A | pCi/L | ARS-010/EPA 903 | 4/20/17 7:46 | SC | 1.70 | < 3 |
| ARS1-B17-00642 | LCSD | RA-228 | 37.823 | 6.300 | 37.670 | 6.267 | N/A | pCi/L | ARS-010/EPA 904 | 4/20/17 7:46 | SC | 0.03 | < 3 |

Project Manager Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of ARS International.

LELAP Certificate# 01949

NELAP Certificate # E87558



2609 North River Road • Port Allen, Louisiana 70767

1 (800) 401-4277 • Fax (225) 381-2986

Notes (Case Narrative):

Comments:

- 1.0) All MDA/MDC values are calculated on a sample specific basis.
- 2.0) Soil and Sludge analysis are reported on a wet basis or an as received basis unless otherwise indicated.
- 3.0) Data in this report are within the limits of uncertainty specified in the reference method unless otherwise specified.
- 4.0) Modified analysis procedures are procedures that are modified to meet the certain specifications. An example may be the use of a water method to analyze a solid matrix due to the lack of an officially recognized procedure for the analysis of the solid matrix. Modified analyses are indicated by the subsequent addition of "m" to the procedure number (i.e. 900.0M).
- 5.0) Total activity is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring radioactive decay chains and other prominent radioactive nuclides. Total activity may be lower than the actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not representative of nuclides that emit solely alpha or beta particles.
- 6.0) Ra-228 is determined via secular equilibrium with its daughter, Actinium 228 (Gamma Spectroscopy only).
- 7.0) U-238 is determined via secular equilibrium with its daughter, Thorium 234 (Gamma Spectroscopy only).
- 8.0) All gamma spectroscopy was performed utilizing high purity germanium detectors (HPGe).
- 9.0) ARS makes every attempt to match sample density to calibrated density; however, in some cases, it is not practical or possible to do so and data results may be affected (Gamma Spectroscopy only).
- 10.0) Gamma spectroscopy results are calculated values based on the ORTEC® GammaVision ENV32 Analysis Engine.
- 11.0) ACLASS DOD and ISO 17025 certification applies only to the following analytes and methods: Gross Alpha and Gross Beta (EPA 900, SM7110B&C, SW846 9310); Radium 226 (EPA 903, EPA 903.1, SM 7500 Ra-B, SW846 9315); Radium 228 (EPA 904, SM 7500 Ra-B SW846 9320); Iodine-131(EPA 901.1); Uranium by ICPMS (EPA 200.8); Strontium 89/90 (EPA 905, Eichrom SRW01, HASL 300 Sr-03-RC); Tritium (EPA 906, EPA 906M); Gamma Emitters (EPA 901.1, SM7120B, HASL 300 Ga-01-R); Americium-241, Curium 242/244, Plutonium 239/240 and 241, Thorium 228/230/232, Uranium 234/233 and 238 (Eichrom ACW03 VBS); Lead 210 (HASL 300 Pb-01-RC, Eichrom OTW01); Polonium 210 (HASL 300 Po-01-RC, HASL 300 Po-02-RC); Technetium-99 (Eichrom TCW02, Eichrom TCS01M).

Method References:

- 1.0) EPA 600/4-80-032; Prescribed Procedures for the Measurements of Radioactivity in Drinking Water, August 1980.
- 2.0) Standard Methods for the Examination of Water and Wastewater (On-Line Edition)
- 3.0) EPA SW-846; Test Methods for Evaluating Solid Waste, (On-Line edition)
- 4.0) EPA 600/4/79-020; Methods for Chemical Analysis of Water and Waste, March 1983.
- 5.0) HASL 300; The Procedures Manual of the Environmental Measurements Laboratory, Volume I, 28th Edition February, 1997.

Definitions:

| | |
|----------|---|
| CRDL | Contract Required Detection Limit |
| CSU | Combined Standard Uncertainty |
| DLC | Decision Level Concentration (ANSI N42.23) or critical level |
| DO | Duplicate Original |
| DUP | Method Duplicate |
| LCS/LCSD | Laboratory Control Sample/Laboratory Control Sample Duplicate |
| MDA | Minimum Detectable Activity |
| MDC | (Minimum Detectable Concentration) minimum concentration of the analyte that ARS can detect utilizing the specific analysis |
| MBL | Method Blank |
| MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| N/A | Not Applicable |
| NP | Not Provided |
| NR | Not Referenced |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |

Data Qualifiers:

| | |
|----|--|
| B | The analyte is found in both the associated method blank and the sample. This flag indicates probable blank contamination. |
| D | Sample analysis accomplished through dilution. |
| J | The reported result is an estimated value above the limit of detection but outside of quantitation range (e.g., matrix interference was observed). |
| Q | One or more quality control criteria failed (e.g., LCS recovery, surrogate spike recovery, or CCV recovery). |
| U | Activity is below the MDC, MDA, MDL, or LOD |
| N | The analyte is a tentatively identified compound using mass spectrometry or any non-customer requested compounds that are tentatively identified. |
| * | LCS/LCSD or MS/MSD fails RPD criteria. |
| S | Spike |
| SC | Subcontracted out to another qualified laboratory |
| H | Holding time exceeded |

LELAP Cert# 01949

NELAP Cert# E87558

ARS-059-010
Revision: 9.1
Revision Date: 03-14-2017



Chain of Custody Record

Batch # 53213

TEMP UN-C: 9.8

Page 1 of 2

Customer / Report Information
 Name: Coleto Creek Power
 Attention: Rick Coleman
 Address: PO#:
 Project: CCR Sampling
 Comments:

Billing Information
 Address:
 Check box if Billing is the same as Report Information
 THERM ID# 3
 TEMP Corr: 9.4

Phone: 361-788-5145
FAX:
EMAIL: Richard.Coleman@wppa.com
 Requested Analysis: B, Ca, Fe, Pb, Se, Ti, Mg, K, Na + Hg
 Confirmed By: [Signature]

| Sample Information | Collected | Matrix | Container | Preservative | Custody Seals Present | | |
|--------------------|-----------|--------|-----------|--------------|---|--------------------------|------|
| | | | | | | Client / Field Sample ID | Date |
| Blank | 3-28-11 | 152b | G W | P 6 1L / 500 | Metals* Cl, F, SO4 PH TDS Ra 226/230 AIK: Tot. Cd Bicarb Diss. Li + Mo | S170871632 | |
| MW 8 | 3-28-11 | 150b | | | | S170871635 | |
| Dup | 3-28-11 | | | | | S170871637 | |

Required Turnaround: Routine (6-10 Business Days) Expedite / Rush: 1 Business Day 2 Business Days 3 Business Days 5 Business Days Other

Surcharge will apply to RUSH/AT Authorized By: Container Type: P=Plastic, G=Glass, V=VOA, O=Other Carrier ID: _____

Relinquished By: [Signature] Date: 3-28-11 Time: 1550 Received By: [Signature] Date: 3/28/11 Time: 1550

Relinquished By: [Signature] Date: 3-28-11 Time: 1630 Received By: [Signature] Date: 3/28/11 Time: 1630

Relinquished By: [Signature] Date: _____ Time: _____ Received By: [Signature] Date: _____ Time: _____

1606 E Brazos Suite D, Victoria, Texas 77901 Ph. (361) 572-8224 Fax (361) 572-4115 Toll Free 1-800-460-8223 Form #1000-0-2 REV 1.2 Email: kbenviro@suddenlinkmail.com www.benviro.com

Fluoride: 0.25 mg/L; Metals*: B, Ca, Sb, As, Ba, Br, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, Mg, K, Na + Hg



Chain of Custody Record

Batch # 53213

TEMP UN-C: 9.8

Page 2 of 2

Customer / Report Information
 Name: Colorado Creek Power
 Attention: Pick Coleman
 Address: PO #:

Billing Information
 Address: Check box if Billing is the same as Report Information
 Attention: POA Sampling
 Project: CEA Sampling
 Comments:

Phone: 361-788-5145 **FAX:**
EMAIL: Richard.coleman@durean.com
 Requested Analysis:
 Completed By: Laboratory:

| Client / Field Sample ID | Collected | | Matrix | Container | Preservative | Custody Seals Present |
|--------------------------|-----------|------|--------|----------------|--|---|
| | Date | Time | | | | |
| mw 4 | 3-28-17 | 1127 | G W | P 6 1L 500 250 | <input checked="" type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCl <input type="checkbox"/> Na2SO3 <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | Yes <input type="checkbox"/> No <input type="checkbox"/> Intract <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> LAB Sample Number |
| BV 15 | 3-28-17 | 1308 | | | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCl <input type="checkbox"/> Na2SO3 <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | Yes <input type="checkbox"/> No <input type="checkbox"/> Intract <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> LAB Sample Number |
| BV 21 | 3-28-17 | 1348 | | | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCl <input type="checkbox"/> Na2SO3 <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | Yes <input type="checkbox"/> No <input type="checkbox"/> Intract <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> LAB Sample Number |
| BV 22 | 3-28-17 | 1431 | | | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCl <input type="checkbox"/> Na2SO3 <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | Yes <input type="checkbox"/> No <input type="checkbox"/> Intract <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> LAB Sample Number |

1606 E Brazos Suite D, Victoria, Texas 77901 Ph. (361) 572-8224 Fax (361) 572-4115 Toll Free 1-800-460-8223 Form #1000-0-2-REV 1.2 Email: kbenviron@suddenlinkmail.com www.benvironmental.net

Fluoride: 0.25 mg/L; Metals: B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, Mg, K, Na + Hg

BatchNo: 53245

SAMPLE REPORT



T104704328-17-14

Business

Coletto Creek Power - R Coleman
PO Box 8
Fannin TX 77960
Att: Rick Coleman



Laboratory

B Environmental, LLC.
1606 E Brazos, Suite D
Victoria TX 77901
ph. 361-572-8224

Reference Information

Project: CCR Sampling
Printed: Wednesday,
May 03, 2017

Re: Coletto Creek Power - R Coleman

Dear: Rick Coleman

Attached are the results for sample(s) received on 3/29/2017

The analytical results relate only to the samples tested.
All supporting quality data meets the requirements of NELAC unless noted in the case narrative section of the report.

This report contains 42 pages (including the cover page)

If you have any questions concerning this report, please do not hesitate to call (361) 572-8224 or Fax us at (361) 572-4115

Respectfully Submitted,

Kevin Baros
Laboratory Director



B Environmental, LLC. 1606 E Brazos, Suite D Victoria TX 77901

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B Environmental, LLC.
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Victoria TX 77901

BatchNo: 53245

Batch No:

Sample Receipt Checklist

Date Received:

Project Received By:

Login completed by:

Carrier Name

- YES NO Not Present
- YES NO Not Present
- YES NO Not Present
- YES NO
- YES NO
- YES NO
- YES NO
- YES NO
- YES NO
- YES NO
- YES NO >0 <6 °C On Ice
- YES NO No VOA Vials submitted
- YES NO Not Applicable

*TEMP pH Adjusted? Checked By

Any No and/or N/A (not applicable) response must be detailed in the comments section below.

Client contacted Person Contacted
Contacted by: Date Contacted:

Regarding

Comments

Corrective Action



B Environmental, LLC. 1606 E Brazos, Suite D Victoria TX 77901

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B Environmental, LLC.

BatchNo:

53245

1606 E Brazos, Suite D

Victoria TX 77901

Sample Report Information



| | | | | | |
|-------------------|-------------------|-------------------|--------------|-----------------|---------------|
| Sample ID: | S170881623 | Client ID: | BV-19 | Sampler: | Client |
|-------------------|-------------------|-------------------|--------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman

Batch No: 53245

Study: Water

Sampled: 3/29/2017

9:56 AM

Project: CCR Sampling

Location: BV-19

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 94 | mg/L | EPA 300 | K Baros | 3/30/2017 21:18 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 280 | mg/L | SM 2320 B | | 4/3/2017 10:14 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 4/3/2017 10:14 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 280 | mg/L | SM 2320 B | | 4/3/2017 10:14 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.53 | mg/L | EPA 300 | K Baros | 3/30/2017 21:18 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.14 | SU | SM 4500-H+B | C Watts | 3/29/2017 16:45 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 546 | mg/L | SM2540C | C Watts | 4/3/2017 16:00 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 4/4/2017 10:45 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 43 | mg/L | EPA 300 | K Baros | 3/30/2017 21:18 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 4/17/2017 9:40 | | | | | | <input checked="" type="checkbox"/> ARS International |



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BatchNo: 53245

Sample Report Information



| | | | |
|------------------------------|-------------------------|-----------------|---------------|
| Sample ID: S17088162A | Client ID: BV-10 | Sampler: | Client |
|------------------------------|-------------------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman
 Study: Water
 Project: CCR Sampling
 Location: BV-10
 Notes:

Batch No: 53245
 Sampled: 3/29/2017 10:38 AM
 Type: Grab
 Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| .- Chloride, IC | 86 | mg/L | EPA 300 | K Baros | 3/30/2017 23:50 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 290 | mg/L | SM 2320 B | | 4/3/2017 10:24 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 4/3/2017 10:24 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 290 | mg/L | SM 2320 B | | 4/3/2017 10:24 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.81 | mg/L | EPA 300 | K Baros | 3/30/2017 23:50 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.73 | SU | SM 4500-H+B | C Watts | 3/29/2017 16:45 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 618 | mg/L | SM2540C | C Watts | 4/3/2017 16:00 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 4/4/2017 10:47 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 86 | mg/L | EPA 300 | K Baros | 3/30/2017 23:50 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 4/17/2017 9:40 | | | | | <input checked="" type="checkbox"/> | ARS International |



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 Victoria TX 77901

BatchNo: 53245

Sample Report Information



| | | | | | |
|------------|-------------------|------------|-------------|----------|---------------|
| Sample ID: | S17088162B | Client ID: | BV-5 | Sampler: | Client |
|------------|-------------------|------------|-------------|----------|---------------|

Client: Coletto Creek Power - R Coleman
 Study: Water

Batch No: 53245
 Sampled: 3/29/2017 12:45 PM

Project: CCR Sampling

Location: BV-5

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 118 | mg/L | EPA 300 | K Baros | 3/30/2017 23:12 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 384 | mg/L | SM 2320 B | | 4/3/2017 10:38 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 4/3/2017 10:38 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 384 | mg/L | SM 2320 B | | 4/3/2017 10:38 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.54 | mg/L | EPA 300 | K Baros | 3/30/2017 23:12 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.19 | SU | SM 4500-H+B | C Watts | 3/29/2017 16:45 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 860 | mg/L | SM2540C | C Watts | 4/3/2017 16:00 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 4/4/2017 10:49 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 147 | mg/L | EPA 300 | K Baros | 3/30/2017 23:12 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 4/17/2017 9:40 | | | | | <input checked="" type="checkbox"/> | ARS International |



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 Victoria TX 77901

BatchNo: 53245

Sample Report Information



| | | | | | |
|------------|------------|------------|------|----------|--------|
| Sample ID: | S17088162C | Client ID: | BV-1 | Sampler: | Client |
|------------|------------|------------|------|----------|--------|

Client: Coletto Creek Power - R Coleman

Study: Water

Batch No: 53245

Sampled: 3/29/2017 1:21 PM

Project: CCR Sampling

Location: BV-1

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| .- Chloride, IC | 138 | mg/L | EPA 300 | K Baros | 3/30/2017 18:45 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 392 | mg/L | SM 2320 B | | 4/3/2017 10:52 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 4/3/2017 10:52 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 392 | mg/L | SM 2320 B | | 4/3/2017 10:52 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.8 | mg/L | EPA 300 | K Baros | 3/30/2017 18:45 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.53 | SU | SM 4500-H+B | C Watts | 3/29/2017 16:45 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 956 | mg/L | SM2540C | C Watts | 4/3/2017 16:00 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 4/4/2017 10:51 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 185 | mg/L | EPA 300 | K Baros | 3/30/2017 18:45 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 4/17/2017 9:40 | | | | | <input checked="" type="checkbox"/> | ARS International |



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BatchNo: 53245

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Sample Report Information



| | | |
|------------------------------|------------------------|------------------------|
| Sample ID: S17088162D | Client ID: MW-6 | Sampler: Client |
|------------------------------|------------------------|------------------------|

Client: Coletto Creek Power - R Coleman
Study: Water

Batch No: 53245
Sampled: 3/29/2017 2:16 PM

Project: CCR Sampling

Location: MW #6

Type: Grab
Matrix: Water

Notes:

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 69 | mg/L | EPA 300 | K Baros | 3/30/2017 16:51 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 181 | mg/L | SM 2320 B | | 4/3/2017 10:59 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 4/3/2017 10:59 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 181 | mg/L | SM 2320 B | | 4/3/2017 10:59 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.38 | mg/L | EPA 300 | K Baros | 3/30/2017 16:51 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.41 | SU | SM 4500-H+B | C Watts | 3/29/2017 16:45 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 510 | mg/L | SM2540C | C Watts | 4/3/2017 16:00 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 4/4/2017 10:32 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 99 | mg/L | EPA 300 | K Baros | 3/30/2017 16:51 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 4/17/2017 9:40 | | | | | | <input checked="" type="checkbox"/> ARS International |



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BatchNo: 53245

Sample Report Information



| | | | |
|------------------------------|------------------------|-----------------|---------------|
| Sample ID: S17088162E | Client ID: MW-7 | Sampler: | Client |
|------------------------------|------------------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman
Study: Water

Batch No: 53245
Sampled: 3/29/2017 3:01 PM

Project: CCR Sampling

Location: MW #7

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| .- Chloride, IC | 91 | mg/L | EPA 300 | K Baros | 3/31/2017 1:44 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 250 | mg/L | SM 2320 B | | 4/3/2017 11:15 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 4/3/2017 11:15 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 250 | mg/L | SM 2320 B | | 4/3/2017 11:15 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.6 | mg/L | EPA 300 | K Baros | 3/31/2017 1:44 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.42 | SU | SM 4500-H+B | C Watts | 3/29/2017 16:45 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 560 | mg/L | SM2540C | C Watts | 4/3/2017 16:00 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 4/4/2017 11:07 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 75 | mg/L | EPA 300 | K Baros | 3/31/2017 1:44 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 4/17/2017 7:34 | | | | | <input checked="" type="checkbox"/> | ARS International |



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BatchNo: 53245

Sample Report Information



| | | | |
|------------------------------|-----------------------|-----------------|---------------|
| Sample ID: S17088162F | Client ID: Dup | Sampler: | Client |
|------------------------------|-----------------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman
 Study: Water
 Project: CCR Sampling
 Location: Dup
 Notes:

Batch No: 53245
 Sampled: 3/29/2017 12:00 AM
 Type: Grab
 Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 91 | mg/L | EPA 300 | K Baros | 3/31/2017 2:22 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 250 | mg/L | SM 2320 B | | 4/3/2017 11:25 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 4/3/2017 11:25 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 250 | mg/L | SM 2320 B | | 4/3/2017 11:25 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.59 | mg/L | EPA 300 | K Baros | 3/31/2017 2:22 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.37 | SU | SM 4500-H+B | C Watts | 3/29/2017 16:45 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 568 | mg/L | SM2540C | C Watts | 4/3/2017 16:00 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 4/4/2017 11:09 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 75 | mg/L | EPA 300 | K Baros | 3/31/2017 2:22 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 4/17/2017 7:34 | | | | | | <input checked="" type="checkbox"/> ARS International |



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QA Summary Report

| Parameter | ID | Result | Ref Value | Amt Added | LOQ | Qualifier | Control | Flag | Comments |
|------------------------------------|------------|-----------|-----------|-----------|------|-----------|----------|------|-------------------------------|
| Method Blank | | | | | | | | | |
| - Chloride, IC | Q170941254 | <1mg/L | 0 | | 1 | | 1 | | Blank Acceptable. |
| 3/30/2017 14:56 | | | | | | | | | |
| Fluoride, IC | Q170941254 | <0.25mg/L | 0 | | 0.25 | | 0.25 | | Blank Acceptable. |
| 3/30/2017 14:56 | | | | | | | | | |
| Nitrate/Nitrite-N | Q170941254 | <0.08ppm | 0 | | 0.08 | | 0.08 | | Blank Acceptable. |
| 3/30/2017 14:56 | | | | | | | | | |
| Solids, Total Dissolved | Q170941424 | <25mg/L | 0 | | 10 | | 25 | | Blank Acceptable. |
| 4/3/2017 16:00 | | | | | | | | | |
| Sulfate, IC | Q170941254 | <1mg/L | 0 | | 1 | | 1 | | Blank Acceptable. |
| 3/30/2017 14:56 | | | | | | | | | |
| Duplicate | | | | | | | | | |
| pH (Standard Units) | Q170891047 | 7.44SU | 7.41 | | 2 | 0.4% | 20 | | Duplicate RPD Acceptable. |
| 3/29/2017 16:45 | | | | | | | | | |
| Solids, Total Dissolved | Q170941425 | 514mg/L | 510 | | 10 | 0.8% | 20 | | Duplicate RPD Acceptable. |
| 4/3/2017 16:00 | | | | | | | | | |
| Laboratory Control Standard | | | | | | | | | |
| - Chloride, IC | Q170941255 | 26.2mg/L | 25 | | 1 | 104.8% | 80 - 120 | | Standard Recovery Acceptable. |
| 3/30/2017 15:35 | | | | | | 4.7% | 20 | | Standard RPD Acceptable. |
| Fluoride, IC | Q170941255 | 2.1mg/L | 2 | | 0.25 | 105.0% | 80 - 120 | | Standard Recovery Acceptable. |
| 3/30/2017 15:35 | | | | | | 4.9% | 20 | | Standard RPD Acceptable. |
| Nitrate/Nitrite-N | Q170941255 | 1.09ppm | 1.06 | | 0.08 | 102.8% | 80 - 120 | | Standard Recovery Acceptable. |
| 3/30/2017 15:35 | | | | | | 2.8% | 20 | | Standard RPD Acceptable. |
| pH (Standard Units) | Q170891046 | 7.01SU | 7 | | 2 | 100.1% | 80 - 120 | | Standard Recovery Acceptable. |
| 3/29/2017 16:45 | | | | | | 0.1% | 20 | | Standard RPD Acceptable. |
| Sulfate, IC | Q170941255 | 26.7mg/L | 25 | | 1 | 106.8% | 80 - 120 | | Standard Recovery Acceptable. |
| 3/30/2017 15:35 | | | | | | 6.6% | 20 | | Standard RPD Acceptable. |
| Matrix Spike | | | | | | | | | |
| - Chloride, IC | Q17094125A | 88mg/L | 87 | 25 | 1 | 104.0% | 80 - 120 | | Spike Recovery Acceptable. |
| 3/30/2017 17:29 | | | | | | 1.1% | 20 | | Spike RPD Acceptable. |
| Fluoride, IC | Q17094125A | 2.26mg/L | 2.34 | 2 | 0.25 | 96.0% | 80 - 120 | | Spike Recovery Acceptable. |
| 3/30/2017 17:29 | | | | | | 3.5% | 20 | | Spike RPD Acceptable. |
| Nitrate/Nitrite-N | Q17094125A | 1.05ppm | 1.06 | 1.06 | 0.08 | 99.1% | 80 - 120 | | Spike Recovery Acceptable. |
| 3/3/2017 17:29 | | | | | | 0.9% | 20 | | Spike RPD Acceptable. |
| Sulfate, IC | Q17094125A | 115mg/L | 114.6 | 25 | 1 | 101.6% | 70 - 130 | | Spike Recovery Acceptable. |
| 3/30/2017 17:29 | | | | | | 0.3% | 20 | | Spike RPD Acceptable. |



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BatchNo:

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| Parameter | ID | Result | Ref Value | Amt Added | LOQ | Qualifier | Control | Flag | Comments |
|-------------------------|------------|----------|-----------|-----------|------|-----------|----------|------|----------------------------|
| Matrix Spike Dup | | | | | | | | | |
| Chloride, IC | Q17094125B | 87.9mg/L | 87 | 25 | 1 | 103.6% | 80 - 120 | | Spike Recovery Acceptable. |
| 3/30/2017 18:07 | | | | | | 1.0% | 20 | | Spike RPD Acceptable. |
| Fluoride, IC | Q17094125B | 2.27mg/L | 2.34 | 2 | 0.25 | 96.5% | 80 - 120 | | Spike Recovery Acceptable. |
| 3/30/2017 18:07 | | | | | | 3.0% | 20 | | Spike RPD Acceptable. |
| Nitrate/Nitrite-N | Q17094125B | 1.05ppm | 1.06 | 1.06 | 0.08 | 99.1% | 80 - 120 | | Spike Recovery Acceptable. |
| 3/27/2017 18:07 | | | | | | 0.9% | 20 | | Spike RPD Acceptable. |
| Sulfate, IC | Q17094125B | 115mg/L | 114.6 | 25 | 1 | 101.6% | 70 - 130 | | Spike Recovery Acceptable. |
| 3/30/2017 18:07 | | | | | | 0.3% | 20 | | Spike RPD Acceptable. |

Flag and Qualifier Legend

| | | | |
|---|--|--|---|
|  | Negative - Result Detected | MDL = Method Detection Limit | DF = Dilution Factor |
|  | Caution - Problem Detected | LOQ = Limit of Quantitation | j = Analyte detected between MDL and LOQ |
|  | Warning - Null Value | S = surrogate standard out of limit | H = sample out of hold time |
|  | MS, MSD, RPD- Failure may occur due to matrix interference, data released per QA plan | | |

Wednesday, May 03, 2017

B Environmental - LDMS QA Report Summary

Note:

THANK YOU!



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DHL Analytical, Inc.

Date: 07-Apr-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Lab Order: 1703259

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition and Standard Methods.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives except where noted in the following. For Total Metals Analysis, for Batch 79805, the recoveries of three analytes for the Matrix Spike and Matrix Spike Duplicate (1703259-05 MS/MSD) were outside of the method control limits. These are flagged accordingly in the QC Summary Report. These analytes were within method control limits in the associated LCS. No further corrective action was taken.

For Mercury Analysis, the recovery of the Post Digestion Spike (1703259-05 PDS) was below the method control limits. This is flagged accordingly in the QC Summary Report. The associated Serial Dilution was within method control limits. No further corrective action was taken.

For Total/ Dissolved Metals Analysis, the results of Dissolved Lithium/Molybdenum for five of the samples was slightly greater than the results of Total Lithium/Molybdenum. These results are within acceptable analytical variation limits. No further corrective action was taken.

DHL Analytical, Inc.

Date: 07-Apr-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (53245)
Lab Order: 1703259

Client Sample ID: BV-19
Lab ID: 1703259-01
Alternate ID: S170881623
Collection Date: 03/29/17 09:56 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: CVD | | | |
| Dissolved Lithium | 0.0129 | 0.00500 | 0.0100 | | mg/L | 1 | 04/06/17 12:45 PM |
| Dissolved Molybdenum | 0.00548 | 0.00200 | 0.00500 | | mg/L | 1 | 04/06/17 12:45 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 04/04/17 10:45 AM |
| Arsenic | 0.00861 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 10:45 AM |
| Barium | 0.0799 | 0.00300 | 0.0100 | | mg/L | 1 | 04/04/17 10:45 AM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 10:45 AM |
| Boron | 0.789 | 0.100 | 0.300 | | mg/L | 10 | 04/05/17 10:42 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 10:45 AM |
| Calcium | 80.1 | 1.00 | 3.00 | | mg/L | 10 | 04/05/17 10:42 AM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 10:45 AM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 04/04/17 10:45 AM |
| Lead | 0.000368 | 0.000300 | 0.00100 | J | mg/L | 1 | 04/04/17 10:45 AM |
| Lithium | 0.0124 | 0.00500 | 0.0100 | | mg/L | 1 | 04/04/17 10:45 AM |
| Magnesium | 20.3 | 0.100 | 0.300 | | mg/L | 1 | 04/04/17 10:45 AM |
| Molybdenum | 0.00547 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 10:45 AM |
| Potassium | 0.662 | 0.100 | 0.300 | | mg/L | 1 | 04/04/17 10:45 AM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 10:45 AM |
| Sodium | 75.3 | 1.00 | 3.00 | | mg/L | 10 | 04/05/17 10:42 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 04/04/17 10:45 AM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 04/05/17 10:16 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 280 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 04/03/17 10:14 AM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 04/03/17 10:14 AM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 04/03/17 10:14 AM |
| Alkalinity, Total (As CaCO3) | 280 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 04/03/17 10:14 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern
 J Analyte detected between MDL and RL
 MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 07-Apr-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (53245)
Lab Order: 1703259

Client Sample ID: BV-10
Lab ID: 1703259-02
Alternate ID: S17088162A
Collection Date: 03/29/17 10:38 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: CVD | | | |
| Dissolved Lithium | 0.0112 | 0.00500 | 0.0100 | | mg/L | 1 | 04/06/17 12:47 PM |
| Dissolved Molybdenum | 0.00775 | 0.00200 | 0.00500 | | mg/L | 1 | 04/06/17 12:47 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 04/04/17 10:47 AM |
| Arsenic | 0.0132 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 10:47 AM |
| Barium | 0.0514 | 0.00300 | 0.0100 | | mg/L | 1 | 04/04/17 10:47 AM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 10:47 AM |
| Boron | 1.20 | 0.200 | 0.600 | | mg/L | 20 | 04/05/17 10:44 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 10:47 AM |
| Calcium | 40.8 | 2.00 | 6.00 | | mg/L | 20 | 04/05/17 10:44 AM |
| Chromium | 0.00486 | 0.00200 | 0.00500 | J | mg/L | 1 | 04/04/17 10:47 AM |
| Cobalt | 0.231 | 0.00300 | 0.00500 | | mg/L | 1 | 04/04/17 10:47 AM |
| Lead | 0.00478 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 10:47 AM |
| Lithium | 0.0109 | 0.00500 | 0.0100 | | mg/L | 1 | 04/04/17 10:47 AM |
| Magnesium | 8.01 | 0.100 | 0.300 | | mg/L | 1 | 04/04/17 10:47 AM |
| Molybdenum | 0.00814 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 10:47 AM |
| Potassium | 0.839 | 0.100 | 0.300 | | mg/L | 1 | 04/04/17 10:47 AM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 10:47 AM |
| Sodium | 171 | 2.00 | 6.00 | | mg/L | 20 | 04/05/17 10:44 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 04/04/17 10:47 AM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 04/05/17 10:18 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 290 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 04/03/17 10:24 AM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 04/03/17 10:24 AM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 04/03/17 10:24 AM |
| Alkalinity, Total (As CaCO3) | 290 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 04/03/17 10:24 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 07-Apr-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (53245)
Lab Order: 1703259

Client Sample ID: BV-5
Lab ID: 1703259-03
Alternate ID: S17088162B
Collection Date: 03/29/17 12:45 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: CVD | | | |
| Dissolved Lithium | 0.0207 | 0.00500 | 0.0100 | | mg/L | 1 | 04/06/17 12:49 PM |
| Dissolved Molybdenum | 0.00908 | 0.00200 | 0.00500 | | mg/L | 1 | 04/06/17 12:49 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 04/04/17 10:49 AM |
| Arsenic | 0.00856 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 10:49 AM |
| Barium | 0.0451 | 0.00300 | 0.0100 | | mg/L | 1 | 04/04/17 10:49 AM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 10:49 AM |
| Boron | 1.15 | 0.200 | 0.600 | | mg/L | 20 | 04/05/17 10:46 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 10:49 AM |
| Calcium | 90.5 | 2.00 | 6.00 | | mg/L | 20 | 04/05/17 10:46 AM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 10:49 AM |
| Cobalt | 0.0497 | 0.00300 | 0.00500 | | mg/L | 1 | 04/04/17 10:49 AM |
| Lead | 0.000929 | 0.000300 | 0.00100 | J | mg/L | 1 | 04/04/17 10:49 AM |
| Lithium | 0.0206 | 0.00500 | 0.0100 | | mg/L | 1 | 04/04/17 10:49 AM |
| Magnesium | 18.7 | 0.100 | 0.300 | | mg/L | 1 | 04/04/17 10:49 AM |
| Molybdenum | 0.00925 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 10:49 AM |
| Potassium | 0.222 | 0.100 | 0.300 | J | mg/L | 1 | 04/04/17 10:49 AM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 10:49 AM |
| Sodium | 181 | 2.00 | 6.00 | | mg/L | 20 | 04/05/17 10:46 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 04/04/17 10:49 AM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 04/05/17 10:20 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 384 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 04/03/17 10:38 AM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 04/03/17 10:38 AM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 04/03/17 10:38 AM |
| Alkalinity, Total (As CaCO3) | 384 | 20.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 04/03/17 10:38 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 07-Apr-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (53245)
Lab Order: 1703259

Client Sample ID: BV-1
Lab ID: 1703259-04
Alternate ID: S17088162C
Collection Date: 03/29/17 01:21 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|------|----------------|----|---------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | | | | Analyst: CVD |
| Dissolved Lithium | 0.0162 | 0.00500 | 0.0100 | | mg/L | 1 | 04/06/17 12:51 PM |
| Dissolved Molybdenum | 0.00455 | 0.00200 | 0.00500 | J | mg/L | 1 | 04/06/17 12:51 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | | | | Analyst: SP |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 04/04/17 10:51 AM |
| Arsenic | 0.0109 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 10:51 AM |
| Barium | 0.0467 | 0.00300 | 0.0100 | | mg/L | 1 | 04/04/17 10:51 AM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 10:51 AM |
| Boron | 1.35 | 0.200 | 0.600 | | mg/L | 20 | 04/05/17 10:48 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 10:51 AM |
| Calcium | 64.8 | 2.00 | 6.00 | | mg/L | 20 | 04/05/17 10:48 AM |
| Chromium | 0.00939 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 10:51 AM |
| Cobalt | 0.404 | 0.00300 | 0.00500 | | mg/L | 1 | 04/04/17 10:51 AM |
| Lead | 0.00682 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 10:51 AM |
| Lithium | 0.0153 | 0.00500 | 0.0100 | | mg/L | 1 | 04/04/17 10:51 AM |
| Magnesium | 11.0 | 0.100 | 0.300 | | mg/L | 1 | 04/04/17 10:51 AM |
| Molybdenum | 0.00476 | 0.00200 | 0.00500 | J | mg/L | 1 | 04/04/17 10:51 AM |
| Potassium | 0.601 | 0.100 | 0.300 | | mg/L | 1 | 04/04/17 10:51 AM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 10:51 AM |
| Sodium | 268 | 2.00 | 6.00 | | mg/L | 20 | 04/05/17 10:48 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 04/04/17 10:51 AM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | | | Analyst: AH |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 04/05/17 10:22 AM |
| ALKALINITY | | M2320 B | | | | | Analyst: BTJ |
| Alkalinity, Bicarbonate (As CaCO3) | 392 | 10.0 | 20.0 | | mg/L @ pH 4.54 | 1 | 04/03/17 10:52 AM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.54 | 1 | 04/03/17 10:52 AM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.54 | 1 | 04/03/17 10:52 AM |
| Alkalinity, Total (As CaCO3) | 392 | 20.0 | 20.0 | | mg/L @ pH 4.54 | 1 | 04/03/17 10:52 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 07-Apr-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (53245)
Lab Order: 1703259

Client Sample ID: MW-6
Lab ID: 1703259-05
Alternate ID: S17088162D
Collection Date: 03/29/17 02:16 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: CVD | | | |
| Dissolved Lithium | 0.00925 | 0.00500 | 0.0100 | J | mg/L | 1 | 04/06/17 12:37 PM |
| Dissolved Molybdenum | 0.00693 | 0.00200 | 0.00500 | | mg/L | 1 | 04/06/17 12:37 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 04/04/17 10:32 AM |
| Arsenic | 0.00827 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 10:32 AM |
| Barium | 0.0900 | 0.00300 | 0.0100 | | mg/L | 1 | 04/04/17 10:32 AM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 10:32 AM |
| Boron | 1.67 | 0.100 | 0.300 | | mg/L | 10 | 04/05/17 10:32 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 10:32 AM |
| Calcium | 73.9 | 1.00 | 3.00 | | mg/L | 10 | 04/05/17 10:32 AM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 10:32 AM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 04/04/17 10:32 AM |
| Lead | 0.000996 | 0.000300 | 0.00100 | J | mg/L | 1 | 04/04/17 10:32 AM |
| Lithium | 0.00981 | 0.00500 | 0.0100 | J | mg/L | 1 | 04/04/17 10:32 AM |
| Magnesium | 9.29 | 0.100 | 0.300 | | mg/L | 1 | 04/04/17 10:32 AM |
| Molybdenum | 0.00749 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 10:32 AM |
| Potassium | 0.918 | 0.100 | 0.300 | | mg/L | 1 | 04/04/17 10:32 AM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 10:32 AM |
| Sodium | 71.6 | 1.00 | 3.00 | | mg/L | 10 | 04/05/17 10:32 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 04/04/17 10:32 AM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 04/05/17 10:25 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 181 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 04/03/17 10:59 AM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 04/03/17 10:59 AM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 04/03/17 10:59 AM |
| Alkalinity, Total (As CaCO3) | 181 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 04/03/17 10:59 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 07-Apr-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR (53245)
Lab Order: 1703259

Client Sample ID: MW-7
Lab ID: 1703259-06
Alternate ID: S17088162E
Collection Date: 03/29/17 03:01 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: CVD | | | |
| Dissolved Lithium | 0.00817 | 0.00500 | 0.0100 | J | mg/L | 1 | 04/06/17 12:52 PM |
| Dissolved Molybdenum | 0.00754 | 0.00200 | 0.00500 | | mg/L | 1 | 04/06/17 12:52 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 04/04/17 11:07 AM |
| Arsenic | 0.00978 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:07 AM |
| Barium | 0.0951 | 0.00300 | 0.0100 | | mg/L | 1 | 04/04/17 11:07 AM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 11:07 AM |
| Boron | 0.925 | 0.200 | 0.600 | | mg/L | 20 | 04/05/17 10:50 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 11:07 AM |
| Calcium | 64.8 | 2.00 | 6.00 | | mg/L | 20 | 04/05/17 10:50 AM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:07 AM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 04/04/17 11:07 AM |
| Lead | 0.000698 | 0.000300 | 0.00100 | J | mg/L | 1 | 04/04/17 11:07 AM |
| Lithium | 0.0105 | 0.00500 | 0.0100 | | mg/L | 1 | 04/04/17 11:07 AM |
| Magnesium | 10.2 | 0.100 | 0.300 | | mg/L | 1 | 04/04/17 11:07 AM |
| Molybdenum | 0.00993 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:07 AM |
| Potassium | 1.32 | 0.100 | 0.300 | | mg/L | 1 | 04/04/17 11:07 AM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:07 AM |
| Sodium | 115 | 2.00 | 6.00 | | mg/L | 20 | 04/05/17 10:50 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 04/04/17 11:07 AM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 04/05/17 10:36 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 250 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 04/03/17 11:15 AM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 04/03/17 11:15 AM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 04/03/17 11:15 AM |
| Alkalinity, Total (As CaCO3) | 250 | 20.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 04/03/17 11:15 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 07-Apr-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR (53245)
Lab Order: 1703259

Client Sample ID: Dup
Lab ID: 1703259-07
Alternate ID: S17088162F
Collection Date: 03/29/17
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: CVD | | | |
| Dissolved Lithium | 0.0100 | 0.00500 | 0.0100 | | mg/L | 1 | 04/06/17 12:54 PM |
| Dissolved Molybdenum | 0.00956 | 0.00200 | 0.00500 | | mg/L | 1 | 04/06/17 12:54 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 04/04/17 11:09 AM |
| Arsenic | 0.00982 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:09 AM |
| Barium | 0.0956 | 0.00300 | 0.0100 | | mg/L | 1 | 04/04/17 11:09 AM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 11:09 AM |
| Boron | 0.922 | 0.200 | 0.600 | | mg/L | 20 | 04/05/17 10:52 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 11:09 AM |
| Calcium | 64.7 | 2.00 | 6.00 | | mg/L | 20 | 04/05/17 10:52 AM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:09 AM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 04/04/17 11:09 AM |
| Lead | 0.000636 | 0.000300 | 0.00100 | J | mg/L | 1 | 04/04/17 11:09 AM |
| Lithium | 0.00993 | 0.00500 | 0.0100 | J | mg/L | 1 | 04/04/17 11:09 AM |
| Magnesium | 10.2 | 0.100 | 0.300 | | mg/L | 1 | 04/04/17 11:09 AM |
| Molybdenum | 0.0100 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:09 AM |
| Potassium | 1.31 | 0.100 | 0.300 | | mg/L | 1 | 04/04/17 11:09 AM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:09 AM |
| Sodium | 115 | 2.00 | 6.00 | | mg/L | 20 | 04/05/17 10:52 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 04/04/17 11:09 AM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 04/05/17 10:38 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 250 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 04/03/17 11:25 AM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 04/03/17 11:25 AM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 04/03/17 11:25 AM |
| Alkalinity, Total (As CaCO3) | 250 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 04/03/17 11:25 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 07-Apr-17

CLIENT: B-Environmental
Work Order: 1703259
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_170405A

The QC data in batch 79830 applies to the following samples: 1703259-01A, 1703259-02A, 1703259-03A, 1703259-04A, 1703259-05A, 1703259-06A, 1703259-07A

| | | | |
|---------------------------|----------------------------------|--|----------------------------|
| Sample ID MB-79830 | Batch ID: 79830 | TestNo: SW7470A | Units: mg/L |
| SampType: MBLK | Run ID: CETAC2_HG_170405A | Analysis Date: 4/5/2017 10:02:26 AM | Prep Date: 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|------------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | <0.0000800 | 0.000200 | | | | | | | | |

| | | | |
|----------------------------|----------------------------------|--|----------------------------|
| Sample ID LCS-79830 | Batch ID: 79830 | TestNo: SW7470A | Units: mg/L |
| SampType: LCS | Run ID: CETAC2_HG_170405A | Analysis Date: 4/5/2017 10:06:58 AM | Prep Date: 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00208 | 0.000200 | 0.00200 | 0 | 104 | 85 | 115 | | | |

| | | | |
|-----------------------------|----------------------------------|--|----------------------------|
| Sample ID LCSD-79830 | Batch ID: 79830 | TestNo: SW7470A | Units: mg/L |
| SampType: LCSD | Run ID: CETAC2_HG_170405A | Analysis Date: 4/5/2017 10:09:15 AM | Prep Date: 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00192 | 0.000200 | 0.00200 | 0 | 96.0 | 85 | 115 | 8.00 | 15 | |

| | | | |
|---------------------------------|----------------------------------|--|----------------------------|
| Sample ID 1703259-05A SD | Batch ID: 79830 | TestNo: SW7470A | Units: mg/L |
| SampType: SD | Run ID: CETAC2_HG_170405A | Analysis Date: 4/5/2017 10:27:21 AM | Prep Date: 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|-----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | <0.000400 | 0.00100 | 0 | 0 | | | | 0 | 10 | |

| | | | |
|----------------------------------|----------------------------------|--|----------------------------|
| Sample ID 1703259-05A PDS | Batch ID: 79830 | TestNo: SW7470A | Units: mg/L |
| SampType: PDS | Run ID: CETAC2_HG_170405A | Analysis Date: 4/5/2017 10:29:37 AM | Prep Date: 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00209 | 0.000200 | 0.00250 | 0 | 83.6 | 85 | 115 | | | S |

| | | | |
|---------------------------------|----------------------------------|--|----------------------------|
| Sample ID 1703259-05A MS | Batch ID: 79830 | TestNo: SW7470A | Units: mg/L |
| SampType: MS | Run ID: CETAC2_HG_170405A | Analysis Date: 4/5/2017 10:31:53 AM | Prep Date: 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00170 | 0.000200 | 0.00200 | 0 | 85.0 | 80 | 120 | | | |

| | | | |
|----------------------------------|----------------------------------|--|----------------------------|
| Sample ID 1703259-05A MSD | Batch ID: 79830 | TestNo: SW7470A | Units: mg/L |
| SampType: MSD | Run ID: CETAC2_HG_170405A | Analysis Date: 4/5/2017 10:34:09 AM | Prep Date: 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00176 | 0.000200 | 0.00200 | 0 | 88.0 | 80 | 120 | 3.47 | 15 | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1703259
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170404A

The QC data in batch 79805 applies to the following samples: 1703259-01A, 1703259-02A, 1703259-03A, 1703259-04A, 1703259-05A, 1703259-06A, 1703259-07A

| | | | |
|---------------------------|--------------------------------|--|----------------------------|
| Sample ID MB-79805 | Batch ID: 79805 | TestNo: SW6020A | Units: mg/L |
| SampType: MBLK | Run ID: ICP-MS4_170404A | Analysis Date: 4/4/2017 10:24:00 AM | Prep Date: 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|-----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | <0.000800 | 0.00250 | | | | | | | | |
| Arsenic | <0.00200 | 0.00500 | | | | | | | | |
| Barium | <0.00300 | 0.0100 | | | | | | | | |
| Beryllium | <0.000300 | 0.00100 | | | | | | | | |
| Cadmium | <0.000300 | 0.00100 | | | | | | | | |
| Calcium | <0.100 | 0.300 | | | | | | | | |
| Chromium | <0.00200 | 0.00500 | | | | | | | | |
| Cobalt | <0.00300 | 0.00500 | | | | | | | | |
| Lead | <0.000300 | 0.00100 | | | | | | | | |
| Lithium | <0.00500 | 0.0100 | | | | | | | | |
| Magnesium | <0.100 | 0.300 | | | | | | | | |
| Molybdenum | <0.00200 | 0.00500 | | | | | | | | |
| Potassium | <0.100 | 0.300 | | | | | | | | |
| Selenium | <0.00200 | 0.00500 | | | | | | | | |
| Sodium | <0.100 | 0.300 | | | | | | | | |
| Thallium | <0.000500 | 0.00150 | | | | | | | | |

| | | | |
|----------------------------|--------------------------------|--|----------------------------|
| Sample ID LCS-79805 | Batch ID: 79805 | TestNo: SW6020A | Units: mg/L |
| SampType: LCS | Run ID: ICP-MS4_170404A | Analysis Date: 4/4/2017 10:26:00 AM | Prep Date: 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.192 | 0.00250 | 0.200 | 0 | 96.1 | 80 | 120 | | | |
| Arsenic | 0.198 | 0.00500 | 0.200 | 0 | 99.0 | 80 | 120 | | | |
| Barium | 0.197 | 0.0100 | 0.200 | 0 | 98.3 | 80 | 120 | | | |
| Beryllium | 0.203 | 0.00100 | 0.200 | 0 | 102 | 80 | 120 | | | |
| Cadmium | 0.200 | 0.00100 | 0.200 | 0 | 100 | 80 | 120 | | | |
| Calcium | 4.63 | 0.300 | 5.00 | 0 | 92.6 | 80 | 120 | | | |
| Chromium | 0.205 | 0.00500 | 0.200 | 0 | 102 | 80 | 120 | | | |
| Cobalt | 0.207 | 0.00500 | 0.200 | 0 | 104 | 80 | 120 | | | |
| Lead | 0.198 | 0.00100 | 0.200 | 0 | 99.1 | 80 | 120 | | | |
| Lithium | 0.200 | 0.0100 | 0.200 | 0 | 99.9 | 80 | 120 | | | |
| Magnesium | 4.94 | 0.300 | 5.00 | 0 | 98.8 | 80 | 120 | | | |
| Molybdenum | 0.193 | 0.00500 | 0.200 | 0 | 96.4 | 80 | 120 | | | |
| Potassium | 4.88 | 0.300 | 5.00 | 0 | 97.6 | 80 | 120 | | | |
| Selenium | 0.202 | 0.00500 | 0.200 | 0 | 101 | 80 | 120 | | | |
| Sodium | 4.98 | 0.300 | 5.00 | 0 | 99.5 | 80 | 120 | | | |
| Thallium | 0.197 | 0.00150 | 0.200 | 0 | 98.5 | 80 | 120 | | | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1703259
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170404A

| | | | | | | | |
|-----------|------------|-----------|-----------------|----------------|----------------------|------------|----------|
| Sample ID | LCSD-79805 | Batch ID: | 79805 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | LCSD | Run ID: | ICP-MS4_170404A | Analysis Date: | 4/4/2017 10:28:00 AM | Prep Date: | 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | 0.194 | 0.00250 | 0.200 | 0 | 97.1 | 80 | 120 | 1.04 | 15 | |
| Arsenic | 0.199 | 0.00500 | 0.200 | 0 | 99.6 | 80 | 120 | 0.627 | 15 | |
| Barium | 0.200 | 0.0100 | 0.200 | 0 | 100 | 80 | 120 | 1.76 | 15 | |
| Beryllium | 0.210 | 0.00100 | 0.200 | 0 | 105 | 80 | 120 | 3.00 | 15 | |
| Cadmium | 0.203 | 0.00100 | 0.200 | 0 | 102 | 80 | 120 | 1.58 | 15 | |
| Calcium | 4.65 | 0.300 | 5.00 | 0 | 92.9 | 80 | 120 | 0.371 | 15 | |
| Chromium | 0.207 | 0.00500 | 0.200 | 0 | 103 | 80 | 120 | 0.840 | 15 | |
| Cobalt | 0.208 | 0.00500 | 0.200 | 0 | 104 | 80 | 120 | 0.154 | 15 | |
| Lead | 0.200 | 0.00100 | 0.200 | 0 | 100 | 80 | 120 | 1.06 | 15 | |
| Lithium | 0.206 | 0.0100 | 0.200 | 0 | 103 | 80 | 120 | 3.17 | 15 | |
| Magnesium | 5.00 | 0.300 | 5.00 | 0 | 100 | 80 | 120 | 1.28 | 15 | |
| Molybdenum | 0.197 | 0.00500 | 0.200 | 0 | 98.4 | 80 | 120 | 1.99 | 15 | |
| Potassium | 4.94 | 0.300 | 5.00 | 0 | 98.8 | 80 | 120 | 1.19 | 15 | |
| Selenium | 0.202 | 0.00500 | 0.200 | 0 | 101 | 80 | 120 | 0.072 | 15 | |
| Sodium | 4.99 | 0.300 | 5.00 | 0 | 99.7 | 80 | 120 | 0.204 | 15 | |
| Thallium | 0.199 | 0.00150 | 0.200 | 0 | 99.3 | 80 | 120 | 0.833 | 15 | |

| | | | | | | | |
|-----------|----------------|-----------|-----------------|----------------|----------------------|------------|----------|
| Sample ID | 1703259-05A SD | Batch ID: | 79805 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | SD | Run ID: | ICP-MS4_170404A | Analysis Date: | 4/4/2017 10:34:00 AM | Prep Date: | 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|----------|---------|-----------|----------|------|----------|-----------|-------|----------|------|
| Antimony | <0.00400 | 0.0125 | 0 | 0 | | | | 0 | 10 | |
| Arsenic | <0.0100 | 0.0250 | 0 | 0.00827 | | | | 0 | 10 | |
| Barium | 0.0897 | 0.0500 | 0 | 0.0900 | | | | 0.327 | 10 | |
| Beryllium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Cadmium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Chromium | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Cobalt | <0.0150 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Lead | <0.00150 | 0.00500 | 0 | 0.000996 | | | | 0 | 10 | |
| Lithium | <0.0250 | 0.0500 | 0 | 0.00981 | | | | 0 | 10 | |
| Magnesium | 9.69 | 1.50 | 0 | 9.30 | | | | 4.14 | 10 | |
| Molybdenum | <0.0100 | 0.0250 | 0 | 0.00749 | | | | 0 | 10 | |
| Potassium | 0.930 | 1.50 | 0 | 0.918 | | | | 1.27 | 10 | |
| Selenium | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Thallium | <0.00250 | 0.00750 | 0 | 0 | | | | 0 | 10 | |

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|----------------------|------------|----------|
| Sample ID | 1703259-05A PDS | Batch ID: | 79805 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | PDS | Run ID: | ICP-MS4_170404A | Analysis Date: | 4/4/2017 10:53:00 AM | Prep Date: | 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.205 | 0.00250 | 0.200 | 0 | 102 | 80 | 120 | | | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1703259
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170404A

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|----------------------|------------|----------|
| Sample ID | 1703259-05A PDS | Batch ID: | 79805 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | PDS | Run ID: | ICP-MS4_170404A | Analysis Date: | 4/4/2017 10:53:00 AM | Prep Date: | 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|----------|------|----------|-----------|------|----------|------|
| Arsenic | 0.204 | 0.00500 | 0.200 | 0.00827 | 98.0 | 80 | 120 | | | |
| Barium | 0.292 | 0.0100 | 0.200 | 0.0900 | 101 | 80 | 120 | | | |
| Beryllium | 0.192 | 0.00100 | 0.200 | 0 | 95.9 | 80 | 120 | | | |
| Cadmium | 0.198 | 0.00100 | 0.200 | 0 | 98.9 | 80 | 120 | | | |
| Chromium | 0.203 | 0.00500 | 0.200 | 0 | 102 | 80 | 120 | | | |
| Cobalt | 0.204 | 0.00500 | 0.200 | 0 | 102 | 80 | 120 | | | |
| Lead | 0.201 | 0.00100 | 0.200 | 0.000996 | 100 | 80 | 120 | | | |
| Lithium | 0.200 | 0.0100 | 0.200 | 0.00981 | 95.3 | 80 | 120 | | | |
| Magnesium | 13.8 | 0.300 | 5.00 | 9.29 | 90.4 | 80 | 120 | | | |
| Molybdenum | 0.199 | 0.00500 | 0.200 | 0.00749 | 96.0 | 80 | 120 | | | |
| Potassium | 5.97 | 0.300 | 5.00 | 0.918 | 101 | 80 | 120 | | | |
| Selenium | 0.200 | 0.00500 | 0.200 | 0 | 99.9 | 80 | 120 | | | |
| Thallium | 0.197 | 0.00150 | 0.200 | 0 | 98.7 | 80 | 120 | | | |

| | | | | | | | |
|-----------|----------------|-----------|-----------------|----------------|----------------------|------------|----------|
| Sample ID | 1703259-05A MS | Batch ID: | 79805 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | MS | Run ID: | ICP-MS4_170404A | Analysis Date: | 4/4/2017 10:55:00 AM | Prep Date: | 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|----------|------|----------|-----------|------|----------|------|
| Antimony | 0.193 | 0.00250 | 0.200 | 0 | 96.4 | 80 | 120 | | | |
| Arsenic | 0.205 | 0.00500 | 0.200 | 0.00827 | 98.3 | 80 | 120 | | | |
| Barium | 0.288 | 0.0100 | 0.200 | 0.0900 | 98.9 | 80 | 120 | | | |
| Beryllium | 0.188 | 0.00100 | 0.200 | 0 | 94.1 | 80 | 120 | | | |
| Cadmium | 0.194 | 0.00100 | 0.200 | 0 | 97.2 | 80 | 120 | | | |
| Calcium | 77.2 | 0.300 | 5.00 | 73.8 | 67.5 | 80 | 120 | | | |
| Chromium | 0.197 | 0.00500 | 0.200 | 0 | 98.5 | 80 | 120 | | | S |
| Cobalt | 0.201 | 0.00500 | 0.200 | 0 | 101 | 80 | 120 | | | |
| Lead | 0.201 | 0.00100 | 0.200 | 0.000996 | 100 | 80 | 120 | | | |
| Lithium | 0.197 | 0.0100 | 0.200 | 0.00981 | 93.6 | 80 | 120 | | | |
| Magnesium | 13.9 | 0.300 | 5.00 | 9.29 | 91.6 | 80 | 120 | | | |
| Molybdenum | 0.199 | 0.00500 | 0.200 | 0.00749 | 95.9 | 80 | 120 | | | |
| Potassium | 5.84 | 0.300 | 5.00 | 0.918 | 98.5 | 80 | 120 | | | |
| Selenium | 0.203 | 0.00500 | 0.200 | 0 | 101 | 80 | 120 | | | |
| Sodium | 72.8 | 0.300 | 5.00 | 69.6 | 63.8 | 80 | 120 | | | |
| Thallium | 0.199 | 0.00150 | 0.200 | 0 | 99.5 | 80 | 120 | | | S |

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|----------------------|------------|----------|
| Sample ID | 1703259-05A MSD | Batch ID: | 79805 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | MSD | Run ID: | ICP-MS4_170404A | Analysis Date: | 4/4/2017 10:57:00 AM | Prep Date: | 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|---------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | 0.194 | 0.00250 | 0.200 | 0 | 97.2 | 80 | 120 | 0.870 | 15 | |
| Arsenic | 0.205 | 0.00500 | 0.200 | 0.00827 | 98.3 | 80 | 120 | 0.030 | 15 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1703259
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170404A

| | | | |
|-----------------------------------|--------------------------------|--|----------------------------|
| Sample ID: 1703259-05A MSD | Batch ID: 79805 | TestNo: SW6020A | Units: mg/L |
| SampType: MSD | Run ID: ICP-MS4_170404A | Analysis Date: 4/4/2017 10:57:00 AM | Prep Date: 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|----------|------|----------|-----------|-------|----------|------|
| Barium | 0.292 | 0.0100 | 0.200 | 0.0900 | 101 | 80 | 120 | 1.28 | 15 | |
| Beryllium | 0.189 | 0.00100 | 0.200 | 0 | 94.4 | 80 | 120 | 0.266 | 15 | |
| Cadmium | 0.196 | 0.00100 | 0.200 | 0 | 97.8 | 80 | 120 | 0.688 | 15 | |
| Calcium | 77.7 | 0.300 | 5.00 | 73.8 | 78.1 | 80 | 120 | 0.682 | 15 | S |
| Chromium | 0.197 | 0.00500 | 0.200 | 0 | 98.6 | 80 | 120 | 0.111 | 15 | |
| Cobalt | 0.201 | 0.00500 | 0.200 | 0 | 100 | 80 | 120 | 0.113 | 15 | |
| Lead | 0.203 | 0.00100 | 0.200 | 0.000996 | 101 | 80 | 120 | 0.632 | 15 | |
| Lithium | 0.195 | 0.0100 | 0.200 | 0.00981 | 92.8 | 80 | 120 | 0.755 | 15 | |
| Magnesium | 13.9 | 0.300 | 5.00 | 9.29 | 91.7 | 80 | 120 | 0.042 | 15 | |
| Molybdenum | 0.201 | 0.00500 | 0.200 | 0.00749 | 96.7 | 80 | 120 | 0.821 | 15 | |
| Potassium | 5.82 | 0.300 | 5.00 | 0.918 | 98.0 | 80 | 120 | 0.448 | 15 | |
| Selenium | 0.203 | 0.00500 | 0.200 | 0 | 101 | 80 | 120 | 0.150 | 15 | |
| Sodium | 72.5 | 0.300 | 5.00 | 69.6 | 56.5 | 80 | 120 | 0.499 | 15 | S |
| Thallium | 0.200 | 0.00150 | 0.200 | 0 | 100 | 80 | 120 | 0.520 | 15 | |

| | | |
|--------------------|--|---|
| Qualifiers: | B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified |
|--------------------|--|---|

CLIENT: B-Environmental
Work Order: 1703259
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170405A

The QC data in batch 79805 applies to the following samples: 1703259-01A, 1703259-02A, 1703259-03A, 1703259-04A, 1703259-05A, 1703259-06A, 1703259-07A

| | | | | | | | | | | |
|---------------------------|--------------------------------|--|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID MB-79805 | Batch ID: 79805 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: MBLK | Run ID: ICP-MS4_170405A | Analysis Date: 4/5/2017 10:24:00 AM | Prep Date: 4/3/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | <0.0100 | 0.0300 | | | | | | | | |

| | | | | | | | | | | |
|----------------------------|--------------------------------|--|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID LCS-79805 | Batch ID: 79805 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: LCS | Run ID: ICP-MS4_170405A | Analysis Date: 4/5/2017 10:26:00 AM | Prep Date: 4/3/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 0.205 | 0.0300 | 0.200 | 0 | 102 | 80 | 120 | | | |

| | | | | | | | | | | |
|-----------------------------|--------------------------------|--|----------------------------|---------|------|----------|-----------|-------|----------|------|
| Sample ID LCSD-79805 | Batch ID: 79805 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: LCSD | Run ID: ICP-MS4_170405A | Analysis Date: 4/5/2017 10:28:00 AM | Prep Date: 4/3/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 0.206 | 0.0300 | 0.200 | 0 | 103 | 80 | 120 | 0.589 | 15 | |

| | | | | | | | | | | |
|---------------------------------|--------------------------------|--|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1703259-05A SD | Batch ID: 79805 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: SD | Run ID: ICP-MS4_170405A | Analysis Date: 4/5/2017 10:34:00 AM | Prep Date: 4/3/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 1.73 | 1.50 | 0 | 1.67 | | | | 3.63 | 10 | |
| Calcium | 75.3 | 15.0 | 0 | 73.9 | | | | 1.92 | 10 | |
| Sodium | 74.3 | 15.0 | 0 | 71.6 | | | | 3.69 | 10 | |

| | | | | | | | | | | |
|----------------------------------|--------------------------------|--|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1703259-05A PDS | Batch ID: 79805 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: PDS | Run ID: ICP-MS4_170405A | Analysis Date: 4/5/2017 10:54:00 AM | Prep Date: 4/3/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 3.88 | 0.300 | 2.00 | 1.67 | 110 | 80 | 120 | | | |
| Calcium | 124 | 3.00 | 50.0 | 73.9 | 100 | 80 | 120 | | | |
| Sodium | 127 | 3.00 | 50.0 | 71.6 | 111 | 80 | 120 | | | |

| | | | | | | | | | | |
|---------------------------------|--------------------------------|--|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1703259-05A MS | Batch ID: 79805 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: MS | Run ID: ICP-MS4_170405A | Analysis Date: 4/5/2017 10:56:00 AM | Prep Date: 4/3/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 1.94 | 0.300 | 0.200 | 1.67 | 137 | 80 | 120 | | | S |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1703259
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170405A

| Sample ID: 1703259-05A MSD | Batch ID: 79805 | TestNo: SW6020A | Units: mg/L | | | | | | | |
|-----------------------------------|--------------------------------|--|----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: MSD | Run ID: ICP-MS4_170405A | Analysis Date: 4/5/2017 10:58:00 AM | Prep Date: 4/3/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 1.91 | 0.300 | 0.200 | 1.67 | 123 | 80 | 120 | 1.50 | 15 | S |

Qualifiers:

| | | | |
|----|---|-----|---------------------------------------|
| B | Analyte detected in the associated Method Blank | DF | Dilution Factor |
| J | Analyte detected between MDL and RL | MDL | Method Detection Limit |
| ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| RL | Reporting Limit | S | Spike Recovery outside control limits |
| J | Analyte detected between SDL and RL | N | Parameter not NELAC certified |

CLIENT: B-Environmental
Work Order: 1703259
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170406B

The QC data in batch 79865 applies to the following samples: 1703259-01B, 1703259-02B, 1703259-03B, 1703259-04B, 1703259-05B, 1703259-06B, 1703259-07B

| | | | |
|---------------------------|--------------------------------|--|----------------------------|
| Sample ID MB-79865 | Batch ID: 79865 | TestNo: SW6020A | Units: mg/L |
| SampType: MBLK | Run ID: ICP-MS5_170406B | Analysis Date: 4/6/2017 12:30:00 PM | Prep Date: 4/5/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Lithium | <0.00500 | 0.0100 | | | | | | | | |
| Molybdenum | <0.00200 | 0.00500 | | | | | | | | |

| | | | |
|----------------------------|--------------------------------|--|----------------------------|
| Sample ID LCS-79865 | Batch ID: 79865 | TestNo: SW6020A | Units: mg/L |
| SampType: LCS | Run ID: ICP-MS5_170406B | Analysis Date: 4/6/2017 12:31:00 PM | Prep Date: 4/5/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Lithium | 0.200 | 0.0100 | 0.200 | 0 | 100 | 80 | 120 | | | |
| Molybdenum | 0.190 | 0.00500 | 0.200 | 0 | 94.8 | 80 | 120 | | | |

| | | | |
|-----------------------------|--------------------------------|--|----------------------------|
| Sample ID LCSD-79865 | Batch ID: 79865 | TestNo: SW6020A | Units: mg/L |
| SampType: LCSD | Run ID: ICP-MS5_170406B | Analysis Date: 4/6/2017 12:33:00 PM | Prep Date: 4/5/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Lithium | 0.206 | 0.0100 | 0.200 | 0 | 103 | 80 | 120 | 3.04 | 15 | |
| Molybdenum | 0.193 | 0.00500 | 0.200 | 0 | 96.5 | 80 | 120 | 1.82 | 15 | |

| | | | |
|---------------------------------|--------------------------------|--|----------------------------|
| Sample ID 1703259-05B SD | Batch ID: 79865 | TestNo: SW6020A | Units: mg/L |
| SampType: SD | Run ID: ICP-MS5_170406B | Analysis Date: 4/6/2017 12:38:00 PM | Prep Date: 4/5/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|---------|--------|-----------|---------|------|----------|-----------|------|----------|------|
| Lithium | <0.0250 | 0.0500 | 0 | 0.00925 | | | | 0 | 10 | |
| Molybdenum | <0.0100 | 0.0250 | 0 | 0.00693 | | | | 0 | 10 | |

| | | | |
|----------------------------------|--------------------------------|--|----------------------------|
| Sample ID 1703259-05B PDS | Batch ID: 79865 | TestNo: SW6020A | Units: mg/L |
| SampType: PDS | Run ID: ICP-MS5_170406B | Analysis Date: 4/6/2017 12:56:00 PM | Prep Date: 4/5/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Lithium | 0.202 | 0.0100 | 0.200 | 0.00925 | 96.4 | 80 | 120 | | | |
| Molybdenum | 0.193 | 0.00500 | 0.200 | 0.00693 | 92.9 | 80 | 120 | | | |

| | | | |
|---------------------------------|--------------------------------|--|----------------------------|
| Sample ID 1703259-05B MS | Batch ID: 79865 | TestNo: SW6020A | Units: mg/L |
| SampType: MS | Run ID: ICP-MS5_170406B | Analysis Date: 4/6/2017 12:58:00 PM | Prep Date: 4/5/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Dissolved Lithium | 0.205 | 0.0100 | 0.200 | 0.00925 | 97.8 | 80 | 120 | | | |
| Dissolved Molybdenum | 0.198 | 0.00500 | 0.200 | 0.00693 | 95.4 | 80 | 120 | | | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1703259
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170406B

| Sample ID: 1703259-05B MSD | Batch ID: 79865 | TestNo: SW6020A | Units: mg/L | | | | | | | |
|----------------------------|-------------------------|-------------------------------------|---------------------|---------|------|----------|-----------|-------|----------|------|
| SampType: MSD | Run ID: ICP-MS5_170406B | Analysis Date: 4/6/2017 12:59:00 PM | Prep Date: 4/5/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Dissolved Lithium | 0.197 | 0.0100 | 0.200 | 0.00925 | 93.8 | 80 | 120 | 3.99 | 15 | |
| Dissolved Molybdenum | 0.198 | 0.00500 | 0.200 | 0.00693 | 95.3 | 80 | 120 | 0.079 | 15 | |

| | | | | |
|--------------------|----|---|-----|---------------------------------------|
| Qualifiers: | B | Analyte detected in the associated Method Blank | DF | Dilution Factor |
| | J | Analyte detected between MDL and RL | MDL | Method Detection Limit |
| | ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| | RL | Reporting Limit | S | Spike Recovery outside control limits |
| | J | Analyte detected between SDL and RL | N | Parameter not NELAC certified |

CLIENT: B-Environmental
Work Order: 1703259
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_170403A

The QC data in batch 79803 applies to the following samples: 1703259-01C, 1703259-02C, 1703259-03C, 1703259-04C, 1703259-05C, 1703259-06C, 1703259-07C

| | | | |
|---------------------------|---------------------------------|---|------------------------------|
| Sample ID MB-79803 | Batch ID: 79803 | TestNo: M2320 B | Units: mg/L @ pH 4.34 |
| SampType: MBLK | Run ID: TITRATOR_170403A | Analysis Date: 4/3/2017 9:09:00 AM | Prep Date: 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Total (As CaCO3) | <20.0 | 20.0 | | | | | | | | |

| | | | |
|----------------------------|---------------------------------|---|------------------------------|
| Sample ID LCS-79803 | Batch ID: 79803 | TestNo: M2320 B | Units: mg/L @ pH 4.22 |
| SampType: LCS | Run ID: TITRATOR_170403A | Analysis Date: 4/3/2017 9:13:00 AM | Prep Date: 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Total (As CaCO3) | 50.2 | 20.0 | 50.00 | 0 | 100 | 74 | 129 | | | |

| | | | |
|----------------------------------|---------------------------------|--|-----------------------------|
| Sample ID 1703258-01C-DUP | Batch ID: 79803 | TestNo: M2320 B | Units: mg/L @ pH 4.5 |
| SampType: DUP | Run ID: TITRATOR_170403A | Analysis Date: 4/3/2017 10:04:00 AM | Prep Date: 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | 111 | 20.0 | 0 | 113.7 | | | | 2.76 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | 111 | 20.0 | 0 | 113.7 | | | | 2.76 | 20 | |

| | | | |
|----------------------------------|---------------------------------|--|------------------------------|
| Sample ID 1703259-05C-DUP | Batch ID: 79803 | TestNo: M2320 B | Units: mg/L @ pH 4.52 |
| SampType: DUP | Run ID: TITRATOR_170403A | Analysis Date: 4/3/2017 11:06:00 AM | Prep Date: 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | 180 | 20.0 | 0 | 181.2 | | | | 0.720 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | 180 | 20.0 | 0 | 181.2 | | | | 0.720 | 20 | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified



2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-00842

Client Sample ID: S170881623 (BATCH 53245)

Sample Collection Date: 03/29/17

Sample Matrix: Aqueous

Percent Solids: N/A

Request or PO Number: N/A

ARS Sample ID: ARS1-17-00842-001

Date Received: 04/03/17

Report Date: 04/28/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.299 | 0.159 | 0.162 | 0.060 | NP | B | pCi/L | ARS-010/EPA 903.0/904.0 | 04/17/17 9:40 | SCAUSEY | 92% |
| Ra-228 | 0.688 | 0.736 | 1.206 | 0.559 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 04/10/17 12:44 | SCAUSEY | 85% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-00842

Request or PO Number: N/A

Client Sample ID: S17088162A (BATCH 53245)

ARS Sample ID: ARS1-17-00842-002

Sample Collection Date: 03/29/17

Date Received: 04/03/17

Sample Matrix: Aqueous

Report Date: 04/28/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.566 | 0.203 | 0.143 | 0.053 | NP | B | pCi/L | ARS-010/EPA 903.0/904.0 | 04/17/17 9:40 | SCAUSEY | 97% |
| Ra-228 | 0.405 | 0.614 | 1.039 | 0.481 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 04/10/17 12:44 | SCAUSEY | 95% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-00842

Request or PO Number: N/A

Client Sample ID: S17088162B (BATCH 53245)

ARS Sample ID: ARS1-17-00842-003

Sample Collection Date: 03/29/17

Date Received: 04/03/17

Sample Matrix: Aqueous

Report Date: 04/28/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.272 | 0.159 | 0.174 | 0.064 | NP | B | pCi/L | ARS-010/EPA 903.0/904.0 | 04/17/17 9:40 | SCAUSEY | 80% |
| Ra-228 | 1.231 | 0.891 | 1.377 | 0.638 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 04/10/17 12:44 | SCAUSEY | 74% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-00842

Request or PO Number: N/A

Client Sample ID: S17088162C (BATCH 53245)

ARS Sample ID: ARS1-17-00842-004

Sample Collection Date: 03/29/17

Date Received: 04/03/17

Sample Matrix: Aqueous

Report Date: 04/28/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.251 | 0.151 | 0.190 | 0.077 | NP | B | pCi/L | ARS-010/EPA 903.0/904.0 | 04/17/17 9:40 | SCAUSEY | 93% |
| Ra-228 | 0.770 | 0.781 | 1.273 | 0.593 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 04/10/17 12:44 | SCAUSEY | 85% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-00842

Request or PO Number: N/A

Client Sample ID: S17088162D (BATCH 53245)

ARS Sample ID: ARS1-17-00842-005

Sample Collection Date: 03/29/17

Date Received: 04/03/17

Sample Matrix: Aqueous

Report Date: 04/28/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.296 | 0.155 | 0.164 | 0.063 | NP | B | pCi/L | ARS-010/EPA 903.0/904.0 | 04/17/17 9:40 | SCAUSEY | 98% |
| Ra-228 | 0.713 | 0.732 | 1.194 | 0.554 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 04/10/17 12:43 | SCAUSEY | 87% |

Project Manager Review

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2609 North River Road, Port Allen, Louisiana 70757

1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-00839

Client Sample ID: S17088162E (BATCH 53245)

Sample Collection Date: 03/29/17

Sample Matrix: Aqueous

Percent Solids: N/A

Request or PO Number: N/A

ARS Sample ID: ARS1-17-00839-001

Date Received: 03/31/17

Report Date: 04/28/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.318 | 0.141 | 0.125 | 0.046 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 04/17/17 7:34 | SCAUSEY | 102% |
| Ra-228 | 0.520 | 0.645 | 1.074 | 0.497 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 04/07/17 13:23 | SCAUSEY | 99% |

Project Manager Review

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2609 North River Road, Port Allen, Louisiana 70767
 1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-00839

Request or PO Number: N/A

Client Sample ID: S17088162F (BATCH 53245)

ARS Sample ID: ARS1-17-00839-002

Sample Collection Date: 03/29/17

Date Received: 03/31/17

Sample Matrix: Aqueous

Report Date: 04/28/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.540 | 0.193 | 0.133 | 0.049 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 04/17/17 7:34 | SCAUSEY | 94% |
| Ra-228 | 0.958 | 0.770 | 1.214 | 0.562 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 04/07/17 13:23 | SCAUSEY | 92% |

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Project Manager Review

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1 (800) 401-4277 FAX (225) 381-2996

QC Results Report

Sample Delivery Group: ARS1-17-00825;839;840

Laboratory Control Sample Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | LCS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|----------------------|
| ARS1-B17-00590 | LCS | RA-226 | 23.519 | 3.793 | 0.080 | 27.623 | N/A | pCi/L | ARS-010/EPA 903 | 4/17/17 7:34 | SC | 85 | 75%-125% |
| ARS1-B17-00590 | LCS | RA-228 | 34.549 | 5.771 | 1.052 | 39.784 | N/A | pCi/L | ARS-010/EPA 904 | 4/17/17 7:34 | SC | 87 | 75%-125% |

Blank Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|
| ARS1-B17-00590 | MBL | RA-226 | 0.018 | 0.044 | 0.082 | NA | U | pCi/L | ARS-010/EPA 903 | 4/17/17 7:34 | SC |
| ARS1-B17-00590 | MBL | RA-228 | -0.034 | 0.340 | 0.618 | NA | U | pCi/L | ARS-010/EPA 904 | 4/17/17 7:34 | SC |

RER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | RER | RER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-00590 | LCSD | RA-226 | 23.519 | 3.793 | 26.740 | 4.308 | N/A | pCi/L | ARS-010/EPA 903 | 4/17/17 7:34 | SC | 0.40 | < 1 |
| ARS1-B17-00590 | LCSD | RA-228 | 34.549 | 5.771 | 36.569 | 6.096 | N/A | pCi/L | ARS-010/EPA 904 | 4/17/17 7:34 | SC | 0.17 | < 1 |

DER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | DER | DER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-00590 | LCSD | RA-226 | 23.519 | 3.793 | 26.740 | 4.308 | N/A | pCi/L | ARS-010/EPA 903 | 4/17/17 7:34 | SC | 1.12 | < 3 |
| ARS1-B17-00590 | LCSD | RA-228 | 34.549 | 5.771 | 36.569 | 6.096 | N/A | pCi/L | ARS-010/EPA 904 | 4/17/17 7:34 | SC | 0.48 | < 3 |

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NELAP Certificate # E87558



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QC Results Report

Sample Delivery Group: ARS1-17-00842

Laboratory Control Sample Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1(2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | LCS Acceptance Range |
|----------------|---------|---------|------------------|-----------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|----------------------|
| ARS1-B17-00603 | LCS | Ra-226 | 23.353 | 3.775 | 0.089 | 27.583 | N/A | pCi/L | ARS-010/EPA 903 | 4/17/17 9:40 | SC | 85 | 75%-125% |
| ARS1-B17-00603 | LCS | Ra-228 | 35.649 | 5.940 | 1.038 | 39.784 | N/A | pCi/L | ARS-010/EPA 904 | 4/17/17 9:40 | SC | 90 | 75%-125% |

Blank Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1(2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician |
|----------------|---------|---------|------------------|-----------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|
| ARS1-B17-00603 | MBL | Ra-226 | 0.355 | 0.123 | 0.091 | NA | | pCi/L | ARS-010/EPA 903 | 4/17/17 9:40 | SC |
| ARS1-B17-00603 | MBL | Ra-228 | 0.327 | 0.385 | 0.637 | NA | U | pCi/L | ARS-010/EPA 904 | 4/17/17 9:40 | SC |

RER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1(2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | RER | RER Acceptance Range |
|----------------|---------|----------------------|----------|-----------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-00603 | LCSD | Ra-226 | 23.353 | 3.775 | 23.951 | 3.875 | N/A | pCi/L | ARS-010/EPA 903 | 4/17/17 9:40 | SC | 0.08 | < 1 |
| ARS1-B17-00603 | LCSD | Ra-228 | 35.649 | 5.940 | 34.642 | 5.774 | N/A | pCi/L | ARS-010/EPA 904 | 4/17/17 9:40 | SC | 0.09 | < 1 |

DER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1(2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | DER | DER Acceptance Range |
|----------------|---------|----------------------|----------|-----------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-00603 | LCSD | Ra-226 | 23.353 | 3.775 | 23.951 | 3.875 | N/A | pCi/L | ARS-010/EPA 903 | 4/17/17 9:40 | SC | 0.22 | < 3 |
| ARS1-B17-00603 | LCSD | Ra-228 | 35.649 | 5.940 | 34.642 | 5.774 | N/A | pCi/L | ARS-010/EPA 904 | 4/17/17 9:40 | SC | 0.24 | < 3 |

Matrix Spike

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1(2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery(%) | MS Acceptance Range |
|----------------|---------|---------|------------------|-----------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|---------------------|---------------------|
| ARS1-B17-00603 | MS | Ra-226 | 28.495 | 4.607 | 0.091 | 27.147 | N/A | pCi/L | ARS-010/EPA 903 | 4/17/17 9:40 | SC | 105 | 60%-140% |
| ARS1-B17-00603 | MSD | Ra-226 | 28.182 | 4.538 | 0.070 | 27.605 | N/A | pCi/L | ARS-010/EPA 903 | 4/17/17 9:40 | SC | 102 | 60%-140% |
| ARS1-B17-00603 | MS | Ra-228 | 25.252 | 4.236 | 0.705 | 26.501 | N/A | pCi/L | ARS-010/EPA 904 | 4/17/17 9:40 | SC | 95 | 60%-140% |
| ARS1-B17-00603 | MSD | Ra-228 | 27.091 | 4.489 | 0.748 | 26.949 | N/A | pCi/L | ARS-010/EPA 904 | 4/17/17 9:40 | SC | 101 | 60%-140% |

Project Manager Review

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LELAP Certificate# 01949

NELAP Certificate # E87558



2609 North River Road • Port Allen, Louisiana 70767

1 (800) 401-4277 • Fax (225) 381-2996

Notes (Case Narrative):

Comments:

- 1.0) All MDA/MDC values are calculated on a sample specific basis.
- 2.0) Soil and Sludge analysis are reported on a wet basis or an as received basis unless otherwise indicated.
- 3.0) Data in this report are within the limits of uncertainty specified in the reference method unless otherwise specified.
- 4.0) Modified analysis procedures are procedures that are modified to meet the certain specifications. An example may be the use of a water method to analyze a solid matrix due to the lack of an officially recognized procedure for the analysis of the solid matrix. Modified analyses are indicated by the subsequent addition of "m" to the procedure number (i.e. 900.0M).
- 5.0) Total activity is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring radioactive decay chains and other prominent radioactive nuclides. Total activity may be lower than the actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not representative of nuclides that emit solely alpha or beta particles.
- 6.0) Ra-228 is determined via secular equilibrium with its daughter, Actinium 228 (Gamma Spectroscopy only).
- 7.0) U-238 is determined via secular equilibrium with its daughter, Thorium 234 (Gamma Spectroscopy only).
- 8.0) All gamma spectroscopy was performed utilizing high purity germanium detectors (HPGe).
- 9.0) ARS makes every attempt to match sample density to calibrated density; however, in some cases, it is not practical or possible to do so and data results may be affected (Gamma Spectroscopy only).
- 10.0) Gamma spectroscopy results are calculated values based on the ORTEC® GammaVision ENV32 Analysis Engine.
- 11.0) ACLASS DOD and ISO 17025 certification applies only to the following analytes and methods: Gross Alpha and Gross Beta (EPA 900, SM7110B&C, SW846 9310); Radium 226 (EPA 903, EPA 903.1, SM 7500 Ra-B, SW846 9315); Radium 228 (EPA 904, SM 7500 Ra-B SW846 9320); Iodine-131(EPA 901.1); Uranium by ICPMS (EPA 200.8); Strontium 89/90 (EPA 905, Eichrom SRW01, HASL 300 Sr-03-RC); Tritium (EPA 906, EPA 906M); Gamma Emitters (EPA 901.1, SM7120B, HASL 300 Ga-01-R); Americium-241, Curium 242/244, Plutonium 239/240 and 241, Thorium 228/230/232, Uranium 234/233 and 238 (Eichrom ACW03 VBS); Lead 210 (HASL 300 Pb-01-RC, Eichrom OTW01); Polonium 210 (HASL 300 Po-01-RC, HASL 300 Po-02-RC); Technetium-99 (Eichrom TCW02, Eichrom TCS01M).

Method References:

- 1.0) EPA 600/4-80-032; Prescribed Procedures for the Measurements of Radioactivity in Drinking Water, August 1980.
- 2.0) Standard Methods for the Examination of Water and Wastewater (On-Line Edition)
- 3.0) EPA SW-846; Test Methods for Evaluating Solid Waste, (On-Line edition)
- 4.0) EPA 600/4/79-020; Methods for Chemical Analysis of Water and Waste, March 1983.
- 5.0) HASL 300; The Procedures Manual of the Environmental Measurements Laboratory, Volume I, 28th Edition February, 1997.

Definitions:

| | |
|----------|---|
| CRDL | Contract Required Detection Limit |
| CSU | Combined Standard Uncertainty |
| DLC | Decision Level Concentration (ANSI N42.23) or critical level |
| DO | Duplicate Original |
| DUP | Method Duplicate |
| LCS/LCSD | Laboratory Control Sample/Laboratory Control Sample Duplicate |
| MDA | Minimum Detectable Activity |
| MDC | (Minimum Detectable Concentration) minimum concentration of the analyte that ARS can detect utilizing the specific analysis |
| MBL | Method Blank |
| MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| N/A | Not Applicable |
| NP | Not Provided |
| NR | Not Referenced |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |

Data Qualifiers:

| | |
|----|--|
| B | The analyte is found in both the associated method blank and the sample. This flag indicates probable blank contamination. |
| D | Sample analysis accomplished through dilution. |
| J | The reported result is an estimated value above the limit of detection but outside of quantitation range (e.g., matrix interference was observed). |
| Q | One or more quality control criteria failed (e.g., LCS recovery, surrogate spike recovery, or CCV recovery). |
| U | Activity is below the MDC, MDA, MDL, or LOD |
| N | The analyte is a tentatively identified compound using mass spectrometry or any non-customer requested compounds that are tentatively identified. |
| * | LCS/LCSD or MS/MSD fails RPD criteria. |
| S | Spike |
| SC | Subcontracted out to another qualified laboratory |
| H | Holding time exceeded |

ARS-059-010
Revision: 9.1
Revision Date: 03-14-2017

LELAP Cert# 01949

NELAP Cert# E87558



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1 (800) 401-4277 • Fax (225) 381-2996

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- 2.0) Standard Methods for the Examination of Water and Wastewater (On-Line Edition)
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- 5.0) HASL 300; The Procedures Manual of the Environmental Measurements Laboratory, Volume I, 28th Edition February, 1997.

Definitions:

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| CSU | Combined Standard Uncertainty |
| DLC | Decision Level Concentration (ANSI N42.23) or critical level |
| DO | Duplicate Original |
| DUP | Method Duplicate |
| LCS/LCSD | Laboratory Control Sample/Laboratory Control Sample Duplicate |
| MDA | Minimum Detectable Activity |
| MDC | (Minimum Detectable Concentration) minimum concentration of the analyte that ARS can detect utilizing the specific analysis |
| MBL | Method Blank |
| MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| N/A | Not Applicable |
| NP | Not Provided |
| NR | Not Referenced |
| LOD | Limit of Detection |
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Data Qualifiers:

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| B | The analyte is found in both the associated method blank and the sample. This flag indicates probable blank contamination. |
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| U | Activity is below the MDC, MDA, MDL, or LOD |
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| * | LCS/LCSD or MS/MSD fails RPD criteria. |
| S | Spike |
| SC | Subcontracted out to another qualified laboratory |
| H | Holding time exceeded |

LELAP Cert# 01949

NELAP Cert# E87558

ARS-059-010
Revision: 9.1
Revision Date: 03-14-2017



Chain of Custody Record

Batch # **53249**

TEMP UN-C: **13.4**

Page **1** of **2**

Customer / Report Information
 Name: **COLE CREEK POWER**
 Attention: **PICK COLEMAN**
 Address: **PO#:**
 Comments: **CCR sampling**

Billing Information
 Check box if Billing is the same as Report Information
 Address: **Richard Coleman**
 Phone: **361-798-5145**
 FAX: **361-798-5145**
 EMAIL: **Richard.Coleman@denvir.com**
 Requested Analysis: **DAA C F B E**
 Collected By: **LABORATORY**

THERM ID# 3
TEMP CORR: 17.0

| Sample Information | Collected | Matrix | Container | Preservative | Custody Seals Present |
|--------------------|-----------|--|-----------|--------------|---|
| | | | | | |
| Collected By: | | DW - Drinking H2O S - Solid WW - Waste H2O SL - Sludge L - Liquid W - Water | | | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| | | | | | Intact Yes <input type="checkbox"/> No <input type="checkbox"/> |
| | | | | | LAB Sample Number |

| Sample ID | Date | Time | Matrix | Container | Size | Preservative | Analysis | Remarks |
|-----------|---------|------|--------|-----------|------|---|--|------------|
| BV-19 | 3-29-17 | 956 | G | W | 1L | <input checked="" type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | Metals* Cl, F, SO4 PH TDS Ra 226 & 228 ALK: Tot Carb Bicarb Diss. Li+Mo | S170881623 |
| BV-10 | 3-29-17 | 1038 | | | | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | XXXXXX | S17088162A |
| BV-5 | 3-29-17 | 1245 | | | | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | XXXXXX | S17088162B |
| BV-1 | 3-29-17 | 1321 | | | | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | XXXXXX | S17088162C |
| MW-6 | 3-29-17 | 1416 | | | | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | XXXXXX | S17088162D |
| MW-6 | 3-29-17 | 1416 | | | | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | XXXXXX | |
| MW-6 | 3-29-17 | 1416 | | | | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | XXXXXX | |

Required Turnaround: Routine (6-10 Business Days) Expedite / Rush: 1 Business Day 2 Business Days 3 Business Days 5 Business Days Other _____

REMARKS:

Surcharge will apply to RUSH TAT Authorized By:

| | | | | | |
|--------------------|---------|-------|--------------------|---------|-------|
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
| <i>[Signature]</i> | 3-29-17 | 1535 | <i>[Signature]</i> | 3/29/17 | 1535 |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
| <i>[Signature]</i> | 3/29/17 | 1620 | <i>[Signature]</i> | 3/29/17 | 1620 |

1606 E Brazos Suite D, Victoria, Texas 77901
 Phone: (361) 572-8224 Fax: (361) 572-4115 Toll Free: 1-800-460-8223 Form #1000-0-2 REV 1.2 Email: kbenvir@suddenlinkmail.com www.denvir.com
 Fluoride: 0.25 mg/L Metals: B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Sr, Tl, Na, K, Al, Na, + Hg



Chain of Custody Record

Batch # _____ TEMP UN-C: 17.9 Page 2 of 2

| | | | |
|---|------------------|---|------------------------|
| Customer / Report Information | | Billing Information | |
| Name: <u>Colter Creek Power</u> | Address: _____ | Check box if Billing is the same as Report Information <input checked="" type="checkbox"/> | PO #: _____ |
| Attention: <u>Rich Coleman</u> | Attention: _____ | Project: <u>CCR Sampling</u> | Comments: _____ |
| Address: _____ | | Phone: <u>361-388-5145</u> | Temp Corr: <u>17.0</u> |
| Email: <u>Richard.Coleman@coltcrk.com</u> | | Requested Analysis: <u>Metals* Cl, F*, SO4 PH TDS Ra 226+220 AIK: Tot. Carb Diss. Li+Mo</u> | |
| Completed By Laboratory: _____ | | Requested Analysis: <u>DAACFB</u> | |

| Client / Field Sample ID | Collected | | Matrix | Container | Preservative | Custody Seals Present Yes <input type="checkbox"/> No <input type="checkbox"/> | Intact Yes <input type="checkbox"/> No <input type="checkbox"/> | LAB Sample Number |
|--------------------------|----------------|-------------|------------|-----------|--------------|---|--|-------------------|
| | Date | Time | | | | | | |
| <u>m-w-7</u> | <u>3-29-17</u> | <u>1501</u> | <u>G W</u> | <u>P4</u> | <u>1L</u> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <u>S17088162E</u> |
| <u>Dup</u> | <u>3-29-17</u> | | | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <u>S17088162F</u> |
| | | | | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| | | | | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| | | | | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| | | | | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| | | | | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| | | | | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| | | | | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| | | | | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| | | | | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |

Required Turnaround: Routine (6-10 Business Days) Expedite / Rush: 1 Business Day 2 Business Days 3 Business Days 5 Business Days Other _____

Surcharge will apply to RUSH TAT Authorized By: _____

| | | | | | |
|-------------------------------------|----------------------|-------------------|---------------------------------|----------------------|-------------------|
| Relinquished By: <u>[Signature]</u> | Date: <u>3-29-17</u> | Time: <u>1535</u> | Received By: <u>[Signature]</u> | Date: <u>3/29/17</u> | Time: <u>1535</u> |
| Relinquished By: <u>[Signature]</u> | Date: <u>3/29/17</u> | Time: <u>1020</u> | Received By: <u>[Signature]</u> | Date: <u>3/29/17</u> | Time: <u>1020</u> |
| Relinquished By: _____ | Date: _____ | Time: _____ | Received By: _____ | Date: _____ | Time: _____ |

Container Type: P=Plastic, G=Glass, V=VOA, O=Other _____

Carrier ID: _____

Remarks: _____

1606 E Brazos Suite D, Victoria, Texas 77901 Ph. (361) 572-8224 Fax (361) 572-4115 Toll Free 1-800-460-8223 Form #1000 0-2 REV 1.2 Email: kbenyrvro@suddenlinkmail.com www.benvenvironmental.net

FWonide: 0.25 mg/L; Metals: B, Ca, Sb, H, Ba, Be, Cd, Cr, Co, F, Pb, Li, Mo, Se, Ti, Mg, K, Na, + Hg

BatchNo: 53304

SAMPLE REPORT



T104704328-17-14

Business

Coletto Creek Power - R Coleman
PO Box 8
Fannin TX 77960
Att: Rick Coleman



Laboratory

B Environmental, LLC.
1606 E Brazos, Suite D
Victoria TX 77901
ph. 361-572-8224

Reference Information

Project: CCR Sampling

Printed: Monday, May
01, 2017

Re: Coletto Creek Power - R Coleman

Dear: Rick Coleman

Attached are the results for sample(s) received on 3/30/2017

The analytical results relate only to the samples tested.

All supporting quality data meets the requirements of NELAC unless noted in the case narrative section of the report.

This report contains 36 pages (including the cover page)

If you have any questions concerning this report, please do not hesitate to call (361) 572-8224 or Fax us at (361) 572-4115

Respectfully Submitted,

Kevin Baros

Laboratory Director



B Environmental, LLC. 1606 E Brazos, Suite D Victoria TX 77901

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B Environmental, LLC.
1606 E Brazos, Suite D
Victoria TX 77901

BatchNo: 53304

Batch No: 53304

Sample Receipt Checklist

Date Received: 3/30/2017

Project: CCR Sampling Received By: Vahrenkamp

Login completed by: Vahrenkamp 3/30/2017

Signature: LoginDate:

| Carrier Name | Walk In |
|--|---|
| Shipping container/cooler in good condition? | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> Not Present |
| Custody seals intact on shipping container/cooler? | <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> Not Present |
| Custody seals intact on sample bottles? | <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> Not Present |
| Chain of Custody present? | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| Chain of Custody signed when relinquished and received | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| Chain of Custody agrees with sample labels? | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| Samples in proper container/bottles? | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| Sample containers intact? | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| Sufficient sample volume for indicated tests? | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| All samples received within holding times? | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| Container/Temp Blank - temperature in compliance? | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO >0 <6 °C On Ice |
| Water - VOA vials have zero headspace? Bubble < 6mm? | <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> No VOA Vials submitted |
| Water - pH acceptable upon receipt? | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> Not Applicable |
| *TEMP 2.6/2.2 pH Adjusted? No | Checked By L. Vahrenkamp |

Any No and/or N/A (not applicable) response must be detailed in the comments section below.

Client contacted: PersonContacted:

Contacted by: Date Contacted:

Regarding:

Comments:
Therm #3. HNO3 Lot # 2-42-12. pH Paper Lot # 2-25-6.

Corrective Action:



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B Environmental, LLC.

BatchNo:

53304

1606 E Brazos, Suite D

Victoria TX 77901

Sample Report Information



| | | | |
|------------------------------|-------------------------|-----------------|---------------|
| Sample ID: S170891624 | Client ID: MW 10 | Sampler: | Client |
|------------------------------|-------------------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman
Study: Water

Batch No: 53304
Sampled: 3/30/2017 1:45 PM

Project: CCR Sampling

Location: MW #10

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|-------------------------------------|-------|-------------------------------|
| - Chloride, IC | 151 | mg/L | EPA 300 | K Baros | 3/31/2017 3:39 | 1 | 1 | | <input type="checkbox"/> | | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 307 | mg/L | SM 2320 B | | 4/3/2017 11:41 | 10 | 10 | | <input checked="" type="checkbox"/> | | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 4/3/2017 11:41 | 10 | 10 | | <input checked="" type="checkbox"/> | | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 307 | mg/L | SM 2320 B | | 4/3/2017 11:41 | 10 | 10 | | <input checked="" type="checkbox"/> | | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.54 | mg/L | EPA 300 | K Baros | 3/31/2017 3:39 | 0.25 | 0.25 | | <input type="checkbox"/> | | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.28 | SU | SM 4500-H+B | P Ryan | 3/30/2017 16:55 | | | | <input type="checkbox"/> | | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 804 | mg/L | SM2540C | C Watts | 4/3/2017 16:00 | 25 | 25 | | <input type="checkbox"/> | | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 4/4/2017 11:11 | | | | <input checked="" type="checkbox"/> | | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 130 | mg/L | EPA 300 | K Baros | 3/31/2017 3:39 | 1 | 1 | | <input type="checkbox"/> | | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 4/17/2017 7:34 | | | | <input checked="" type="checkbox"/> | | ARS International |



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Victoria TX 77901

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BatchNo:

53304

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Victoria TX 77901

Sample Report Information



| | | |
|------------------------------|--------------------------|------------------------|
| Sample ID: S17089162A | Client ID: MW 10A | Sampler: Client |
|------------------------------|--------------------------|------------------------|

Client: Coletto Creek Power - R Coleman
Study: Water
Project: CCR Sampling
Location: MW 10A
Notes:

Batch No: 53304
Sampled: 3/30/2017 1:13 PM

Type: Grab
Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|-------------------------------------|-------|-------------------------------|
| - Chloride, IC | 332 | mg/L | EPA 300 | K Baros | 3/31/2017 6:49 | 1 | 1 | | <input type="checkbox"/> | | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 324 | mg/L | SM 2320 B | | 4/3/2017 11:54 | 10 | 10 | | <input checked="" type="checkbox"/> | | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 4/3/2017 11:54 | 10 | 10 | | <input checked="" type="checkbox"/> | | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 324 | mg/L | SM 2320 B | | 4/3/2017 11:54 | 10 | 10 | | <input checked="" type="checkbox"/> | | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.47 | mg/L | EPA 300 | K Baros | 3/31/2017 6:49 | 0.25 | 0.25 | | <input type="checkbox"/> | | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.03 | SU | SM 4500-H+B | P Ryan | 3/30/2017 16:55 | | | | <input type="checkbox"/> | | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 1088 | mg/L | SM2540C | C Watts | 4/5/2017 9:00 | 25 | 25 | | <input type="checkbox"/> | | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 4/4/2017 11:13 | | | | <input checked="" type="checkbox"/> | | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 83 | mg/L | EPA 300 | K Baros | 3/31/2017 6:49 | 1 | 1 | | <input type="checkbox"/> | | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 4/17/2017 7:34 | | | | <input checked="" type="checkbox"/> | | ARS International |



B Environmental, LLC.

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Victoria TX 77901

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B Environmental, LLC.

BatchNo:

53304

1606 E Brazos, Suite D

Victoria TX 77901

Sample Report Information



| | | | |
|------------------------------|------------------------|-----------------|---------------|
| Sample ID: S17089162B | Client ID: PS 3 | Sampler: | Client |
|------------------------------|------------------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman
Study: Water

Batch No: 53304
Sampled: 3/30/2017 8:36 AM

Project: CCR Sampling

Location: PS 3

Type: Grab
Matrix: Water

Notes:

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 48 | mg/L | EPA 300 | K Baros | 3/31/2017 5:33 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 169 | mg/L | SM 2320 B | | 4/3/2017 12:01 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 4/3/2017 12:01 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 169 | mg/L | SM 2320 B | | 4/3/2017 12:01 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.89 | mg/L | EPA 300 | K Baros | 3/31/2017 5:33 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.64 | SU | SM 4500-H+B | P Ryan | 3/30/2017 16:55 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 352 | mg/L | SM2540C | C Watts | 4/5/2017 9:00 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 4/4/2017 11:15 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 32 | mg/L | EPA 300 | K Baros | 3/31/2017 5:33 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 4/17/2017 7:34 | | | | | | <input checked="" type="checkbox"/> ARS International |



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BatchNo:

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Sample Report Information



| | | | |
|------------------------------|------------------------|-----------------|---------------|
| Sample ID: S17089162C | Client ID: MW 9 | Sampler: | Client |
|------------------------------|------------------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman
Study: Water

Batch No: 53304
Sampled: 3/30/2017 9:45 AM

Project: CCR Sampling

Location: MW #9

Type: Grab
Matrix: Water

Notes:

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| .- Chloride, IC | 71 | mg/L | EPA 300 | K Baros | 3/31/2017 4:55 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 139 | mg/L | SM 2320 B | | 4/3/2017 12:06 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 4/3/2017 12:06 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 139 | mg/L | SM 2320 B | | 4/3/2017 12:06 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 1.13 | mg/L | EPA 300 | K Baros | 3/31/2017 4:55 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.24 | SU | SM 4500-H+B | P Ryan | 3/30/2017 16:55 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 406 | mg/L | SM2540C | C Watts | 4/5/2017 9:00 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 4/4/2017 11:17 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 62 | mg/L | EPA 300 | K Baros | 3/31/2017 4:55 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 4/17/2017 7:34 | | | | | | <input checked="" type="checkbox"/> ARS International |



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Sample Report Information



| | | | |
|------------------------------|-------------------------|-----------------|---------------|
| Sample ID: S17089162D | Client ID: MW 9A | Sampler: | Client |
|------------------------------|-------------------------|-----------------|---------------|

Client: Coleta Creek Power - R Coleman
Study: Water

Batch No: 53304
Sampled: 3/30/2017 9:13 AM

Project: CCR Sampling

Location: MW 9A

Type: Grab
Matrix: Water

Notes:

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 67 | mg/L | EPA 300 | K Baros | 3/31/2017 6:11 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 136 | mg/L | SM 2320 B | | 4/3/2017 12:11 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 4/3/2017 12:11 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 136 | mg/L | SM 2320 B | | 4/3/2017 12:11 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 1.19 | mg/L | EPA 300 | K Baros | 3/31/2017 6:11 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.47 | SU | SM 4500-H+B | P Ryan | 3/30/2017 16:55 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 400 | mg/L | SM2540C | C Watts | 4/5/2017 9:00 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 4/4/2017 11:19 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 63 | mg/L | EPA 300 | K Baros | 3/31/2017 6:11 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 4/17/2017 7:34 | | | | | | <input checked="" type="checkbox"/> ARS International |



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Sample Report Information



| | | | |
|------------------------------|------------------------|-----------------|---------------|
| Sample ID: S17089162E | Client ID: MW 5 | Sampler: | Client |
|------------------------------|------------------------|-----------------|---------------|

Client: Coleta Creek Power - R Coleman
Study: Water

Batch No: 53304
Sampled: 3/30/2017 10:58 AM

Project: CCR Sampling

Location: MW #5

Type: Grab
Matrix: Water

Notes:

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOG | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 140 | mg/L | EPA 300 | K Baros | 3/31/2017 3:01 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 286 | mg/L | SM 2320 B | | 4/3/2017 12:23 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 4/3/2017 12:23 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 286 | mg/L | SM 2320 B | | 4/3/2017 12:23 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.51 | mg/L | EPA 300 | K Baros | 3/31/2017 3:01 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.25 | SU | SM 4500-H+B | P Ryan | 3/30/2017 16:55 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 830 | mg/L | SM2540C | C Watts | 4/5/2017 9:00 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 4/4/2017 11:21 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 184 | mg/L | EPA 300 | K Baros | 3/31/2017 3:01 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 4/17/2017 7:34 | | | | | | <input checked="" type="checkbox"/> ARS International |



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QA Summary Report

| Parameter | ID | Result | Ref Value | Amt Added | LOQ | Qualifier | Control | Flag | Comments |
|------------------------------------|------------|-----------|-----------|-----------|------|-----------|---------|----------|-------------------------------|
| Method Blank | | | | | | | | | |
| - Chloride, IC | Q170941254 | <1mg/L | 0 | | | | | | Blank Acceptable. |
| 3/30/2017 14:56 | | | | | | | | | |
| Fluoride, IC | Q170941254 | <0.25mg/L | 0 | | 0.25 | | 0.25 | | Blank Acceptable. |
| 3/30/2017 14:56 | | | | | | | | | |
| Nitrate/Nitrite-N | Q170941254 | <0.08ppm | 0 | | 0.08 | | 0.08 | | Blank Acceptable. |
| 3/30/2017 14:56 | | | | | | | | | |
| Solids, Total Dissolved | Q170951256 | <25mg/L | 0 | | 10 | | 25 | | Blank Acceptable. |
| 4/5/2017 9:00 | | | | | | | | | |
| Solids, Total Dissolved | Q170941424 | <25mg/L | 0 | | 10 | | 25 | | Blank Acceptable. |
| 4/3/2017 16:00 | | | | | | | | | |
| Sulfate, IC | Q170941254 | <1mg/L | 0 | | | | | 1 | Blank Acceptable. |
| 3/30/2017 14:56 | | | | | | | | | |
| Duplicate | | | | | | | | | |
| pH (Standard Units) | Q170900909 | 7.27SU | 7.28 | | | 2 | 0.1% | 20 | Duplicate RPD Acceptable. |
| 3/30/2017 16:55 | | | | | | | | | |
| Solids, Total Dissolved | Q170941425 | 514mg/L | 510 | | 10 | 0.8% | | 20 | Duplicate RPD Acceptable. |
| 4/3/2017 16:00 | | | | | | | | | |
| Solids, Total Dissolved | Q170951257 | 832mg/L | 830 | | 10 | 0.2% | | 20 | Duplicate RPD Acceptable. |
| 4/5/2017 9:00 | | | | | | | | | |
| Laboratory Control Standard | | | | | | | | | |
| - Chloride, IC | Q170941255 | 26.2mg/L | 25 | | | 1 | 104.8% | 80 - 120 | Standard Recovery Acceptable. |
| 3/30/2017 15:35 | | | | | | | 4.7% | 20 | Standard RPD Acceptable. |
| Fluoride, IC | Q170941255 | 2.1mg/L | 2 | | 0.25 | | 105.0% | 80 - 120 | Standard Recovery Acceptable. |
| 3/30/2017 15:35 | | | | | | | 4.9% | 20 | Standard RPD Acceptable. |
| Nitrate/Nitrite-N | Q170941255 | 1.09ppm | 1.06 | | 0.08 | | 102.8% | 80 - 120 | Standard Recovery Acceptable. |
| 3/30/2017 15:35 | | | | | | | 2.8% | 20 | Standard RPD Acceptable. |
| pH (Standard Units) | Q170900908 | 7.01SU | 7 | | | 2 | 100.1% | 80 - 120 | Standard Recovery Acceptable. |
| 3/30/2017 16:55 | | | | | | | 0.1% | 20 | Standard RPD Acceptable. |
| Sulfate, IC | Q170941255 | 26.7mg/L | 25 | | | 1 | 106.8% | 80 - 120 | Standard Recovery Acceptable. |
| 3/30/2017 15:35 | | | | | | | 6.6% | 20 | Standard RPD Acceptable. |
| Matrix Spike | | | | | | | | | |
| - Chloride, IC | Q17094125A | 88mg/L | 87 | 25 | | 1 | 104.0% | 80 - 120 | Spike Recovery Acceptable. |
| 3/30/2017 17:29 | | | | | | | 1.1% | 20 | Spike RPD Acceptable. |
| Fluoride, IC | Q17094125A | 2.26mg/L | 2.34 | 2 | 0.25 | | 96.0% | 80 - 120 | Spike Recovery Acceptable. |
| 3/30/2017 17:29 | | | | | | | 3.5% | 20 | Spike RPD Acceptable. |
| Nitrate/Nitrite-N | Q17094125A | 1.05ppm | 1.06 | 1.06 | 0.08 | | 99.1% | 80 - 120 | Spike Recovery Acceptable. |
| 3/3/2017 17:29 | | | | | | | 0.9% | 20 | Spike RPD Acceptable. |
| Sulfate, IC | Q17094125A | 115mg/L | 114.6 | 25 | | 1 | 101.6% | 70 - 130 | Spike Recovery Acceptable. |
| 3/30/2017 17:29 | | | | | | | 0.3% | 20 | Spike RPD Acceptable. |



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BatchNo: 53304

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| Parameter | ID | Result | Ref Value | Amt Added | LOQ | Qualifier | Control | Flag | Comments |
|-------------------------|------------|----------|-----------|-----------|------|-----------|----------|------|----------------------------|
| Matrix Spike Dup | | | | | | | | | |
| - Chloride, IC | Q17094125B | 87.9mg/L | 87 | 25 | 1 | 103.6% | 80 - 120 | | Spike Recovery Acceptable. |
| 3/30/2017 18:07 | | | | | | 1.0% | 20 | | Spike RPD Acceptable. |
| Fluoride, IC | Q17094125B | 2.27mg/L | 2.34 | 2 | 0.25 | 96.5% | 80 - 120 | | Spike Recovery Acceptable. |
| 3/30/2017 18:07 | | | | | | 3.0% | 20 | | Spike RPD Acceptable. |
| Nitrate/Nitrite-N | Q17094125B | 1.05ppm | 1.06 | 1.06 | 0.08 | 99.1% | 80 - 120 | | Spike Recovery Acceptable. |
| 3/27/2017 18:07 | | | | | | 0.9% | 20 | | Spike RPD Acceptable. |
| Sulfate, IC | Q17094125B | 115mg/L | 114.6 | 25 | 1 | 101.6% | 70 - 130 | | Spike Recovery Acceptable. |
| 3/30/2017 18:07 | | | | | | 0.3% | 20 | | Spike RPD Acceptable. |

Flag and Qualifier Legend

- Negative - Result Detected
 - Caution - Problem Detected
 - Warning - Null Value
 - MS, MSD, RPD- Failure may occur due to matrix interference, data released per QA plan
- MDL = Method Detection Limit* *DF = Dilution Factor*
LOQ = Limit of Quantitation *j = Analyte detected between MDL and LOQ*
S = surrogate standard out of limit *H = sample out of hold time*

Monday, May 01, 2017

B Environmental - LDMS QA Report Summary

Note:

THANK YOU!



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DHL Analytical, Inc.

Date: 07-Apr-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Lab Order: 1703260

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition and Standard Methods.

For Metals analysis by method SW6020A the dissolved Lithium or Molybdenum results were slightly higher than the total Lithium or Molybdenum results for samples MW 10, PS 3, MW 9 and MW 9A. These are within the acceptable variation limits. No further corrective actions were taken.

All method blanks, sample duplicates, laboratory spikes, and/or matrix spikes met quality assurance objectives except where noted in the following. For Total Metals analysis by method SW6020A (batch 79805) the matrix spike and matrix spike duplicate recoveries were out of control limits for three analytes. These are flagged accordingly in the enclosed QC summary report. The "S" flag denotes spike recovery was outside control limits. The LCS was within control limits for these analytes. No further corrective actions were taken.

For Mercury analysis by method SW7470A the PDS recovery was slightly below control limits. This is flagged accordingly. The serial dilution was within control limits. No further corrective actions were taken.

DHL Analytical, Inc.

Date: 07-Apr-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR (53304)
Lab Order: 1703260

Client Sample ID: MW 10
Lab ID: 1703260-01
Alternate ID: S170891624
Collection Date: 03/30/17 01:45 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: CVD | | | |
| Dissolved Lithium | 0.0193 | 0.00500 | 0.0100 | | mg/L | 1 | 04/06/17 01:08 PM |
| Dissolved Molybdenum | 0.0322 | 0.00200 | 0.00500 | | mg/L | 1 | 04/06/17 01:08 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 04/04/17 11:11 AM |
| Arsenic | 0.0110 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:11 AM |
| Barium | 0.0844 | 0.00300 | 0.0100 | | mg/L | 1 | 04/04/17 11:11 AM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 11:11 AM |
| Boron | 3.74 | 0.200 | 0.600 | | mg/L | 20 | 04/05/17 11:08 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 11:11 AM |
| Calcium | 92.1 | 2.00 | 6.00 | | mg/L | 20 | 04/05/17 11:08 AM |
| Chromium | 0.00321 | 0.00200 | 0.00500 | J | mg/L | 1 | 04/04/17 11:11 AM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 04/04/17 11:11 AM |
| Lead | 0.000883 | 0.000300 | 0.00100 | J | mg/L | 1 | 04/04/17 11:11 AM |
| Lithium | 0.0179 | 0.00500 | 0.0100 | | mg/L | 1 | 04/04/17 11:11 AM |
| Magnesium | 17.9 | 0.100 | 0.300 | | mg/L | 1 | 04/04/17 11:11 AM |
| Molybdenum | 0.0342 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:11 AM |
| Potassium | 1.29 | 0.100 | 0.300 | | mg/L | 1 | 04/04/17 11:11 AM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:11 AM |
| Sodium | 169 | 2.00 | 6.00 | | mg/L | 20 | 04/05/17 11:08 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 04/04/17 11:11 AM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 04/05/17 10:40 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 307 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 04/03/17 11:41 AM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 04/03/17 11:41 AM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 04/03/17 11:41 AM |
| Alkalinity, Total (As CaCO3) | 307 | 20.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 04/03/17 11:41 AM |

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 07-Apr-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR (53304)
Lab Order: 1703260

Client Sample ID: MW 10A
Lab ID: 1703260-02
Alternate ID: S17089162A
Collection Date: 03/30/17 01:13 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: CVD | | | |
| Dissolved Lithium | 0.0218 | 0.00500 | 0.0100 | | mg/L | 1 | 04/06/17 01:10 PM |
| Dissolved Molybdenum | 0.0161 | 0.00200 | 0.00500 | | mg/L | 1 | 04/06/17 01:10 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 04/04/17 11:13 AM |
| Arsenic | 0.00503 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:13 AM |
| Barium | 0.110 | 0.00300 | 0.0100 | | mg/L | 1 | 04/04/17 11:13 AM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 11:13 AM |
| Boron | 1.53 | 0.200 | 0.600 | | mg/L | 20 | 04/05/17 11:10 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 11:13 AM |
| Calcium | 153 | 2.00 | 6.00 | | mg/L | 20 | 04/05/17 11:10 AM |
| Chromium | 0.00361 | 0.00200 | 0.00500 | J | mg/L | 1 | 04/04/17 11:13 AM |
| Cobalt | 0.00387 | 0.00300 | 0.00500 | J | mg/L | 1 | 04/04/17 11:13 AM |
| Lead | 0.000669 | 0.000300 | 0.00100 | J | mg/L | 1 | 04/04/17 11:13 AM |
| Lithium | 0.0238 | 0.00500 | 0.0100 | | mg/L | 1 | 04/04/17 11:13 AM |
| Magnesium | 29.7 | 2.00 | 6.00 | | mg/L | 20 | 04/05/17 11:10 AM |
| Molybdenum | 0.0194 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:13 AM |
| Potassium | 2.03 | 0.100 | 0.300 | | mg/L | 1 | 04/04/17 11:13 AM |
| Selenium | 0.00231 | 0.00200 | 0.00500 | J | mg/L | 1 | 04/04/17 11:13 AM |
| Sodium | 171 | 2.00 | 6.00 | | mg/L | 20 | 04/05/17 11:10 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 04/04/17 11:13 AM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 04/05/17 10:53 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 324 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 04/03/17 11:54 AM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 04/03/17 11:54 AM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 04/03/17 11:54 AM |
| Alkalinity, Total (As CaCO3) | 324 | 20.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 04/03/17 11:54 AM |

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 07-Apr-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (53304)
Lab Order: 1703260

Client Sample ID: PS 3
Lab ID: 1703260-03
Alternate ID: S17089162B
Collection Date: 03/30/17 08:36 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|---------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: CVD | | | |
| Dissolved Lithium | 0.00901 | 0.00500 | 0.0100 | J | mg/L | 1 | 04/06/17 01:12 PM |
| Dissolved Molybdenum | 0.00548 | 0.00200 | 0.00500 | | mg/L | 1 | 04/06/17 01:12 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 04/04/17 11:15 AM |
| Arsenic | 0.00819 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:15 AM |
| Barium | 0.103 | 0.00300 | 0.0100 | | mg/L | 1 | 04/04/17 11:15 AM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 11:15 AM |
| Boron | 1.57 | 0.100 | 0.300 | | mg/L | 10 | 04/05/17 11:12 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 11:15 AM |
| Calcium | 41.7 | 1.00 | 3.00 | | mg/L | 10 | 04/05/17 11:12 AM |
| Chromium | 0.00327 | 0.00200 | 0.00500 | J | mg/L | 1 | 04/04/17 11:15 AM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 04/04/17 11:15 AM |
| Lead | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 11:15 AM |
| Lithium | 0.00886 | 0.00500 | 0.0100 | J | mg/L | 1 | 04/04/17 11:15 AM |
| Magnesium | 4.27 | 0.100 | 0.300 | | mg/L | 1 | 04/04/17 11:15 AM |
| Molybdenum | 0.00569 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:15 AM |
| Potassium | 2.40 | 0.100 | 0.300 | | mg/L | 1 | 04/04/17 11:15 AM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:15 AM |
| Sodium | 67.9 | 1.00 | 3.00 | | mg/L | 10 | 04/05/17 11:12 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 04/04/17 11:15 AM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 04/05/17 10:55 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 169 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 04/03/17 12:01 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 04/03/17 12:01 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 04/03/17 12:01 PM |
| Alkalinity, Total (As CaCO3) | 169 | 20.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 04/03/17 12:01 PM |

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 07-Apr-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR (53304)
Lab Order: 1703260

Client Sample ID: MW 9
Lab ID: 1703260-04
Alternate ID: S17089162C
Collection Date: 03/30/17 09:45 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: CVD | | | |
| Dissolved Lithium | 0.00559 | 0.00500 | 0.0100 | J | mg/L | 1 | 04/06/17 01:13 PM |
| Dissolved Molybdenum | 0.0776 | 0.00200 | 0.00500 | | mg/L | 1 | 04/06/17 01:13 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 04/04/17 11:17 AM |
| Arsenic | 0.00909 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:17 AM |
| Barium | 0.121 | 0.00300 | 0.0100 | | mg/L | 1 | 04/04/17 11:17 AM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 11:17 AM |
| Boron | 3.38 | 0.100 | 0.300 | | mg/L | 10 | 04/05/17 11:14 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 11:17 AM |
| Calcium | 54.5 | 1.00 | 3.00 | | mg/L | 10 | 04/05/17 11:14 AM |
| Chromium | 0.00220 | 0.00200 | 0.00500 | J | mg/L | 1 | 04/04/17 11:17 AM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 04/04/17 11:17 AM |
| Lead | 0.00217 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 11:17 AM |
| Lithium | 0.00571 | 0.00500 | 0.0100 | J | mg/L | 1 | 04/04/17 11:17 AM |
| Magnesium | 7.71 | 0.100 | 0.300 | | mg/L | 1 | 04/04/17 11:17 AM |
| Molybdenum | 0.0747 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:17 AM |
| Potassium | 1.04 | 0.100 | 0.300 | | mg/L | 1 | 04/04/17 11:17 AM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:17 AM |
| Sodium | 63.9 | 1.00 | 3.00 | | mg/L | 10 | 04/05/17 11:14 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 04/04/17 11:17 AM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 04/05/17 10:57 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 139 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 04/03/17 12:06 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 04/03/17 12:06 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 04/03/17 12:06 PM |
| Alkalinity, Total (As CaCO3) | 139 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 04/03/17 12:06 PM |

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 07-Apr-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR (53304)
Lab Order: 1703260

Client Sample ID: MW 9A
Lab ID: 1703260-05
Alternate ID: S17089162D
Collection Date: 03/30/17 09:13 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: CVD | | | |
| Dissolved Lithium | 0.00644 | 0.00500 | 0.0100 | J | mg/L | 1 | 04/06/17 01:15 PM |
| Dissolved Molybdenum | 0.0661 | 0.00200 | 0.00500 | | mg/L | 1 | 04/06/17 01:15 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 04/04/17 11:19 AM |
| Arsenic | 0.00950 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:19 AM |
| Barium | 0.0975 | 0.00300 | 0.0100 | | mg/L | 1 | 04/04/17 11:19 AM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 11:19 AM |
| Boron | 3.36 | 0.100 | 0.300 | | mg/L | 10 | 04/05/17 11:16 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 11:19 AM |
| Calcium | 49.3 | 1.00 | 3.00 | | mg/L | 10 | 04/05/17 11:16 AM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:19 AM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 04/04/17 11:19 AM |
| Lead | 0.00113 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 11:19 AM |
| Lithium | 0.00593 | 0.00500 | 0.0100 | J | mg/L | 1 | 04/04/17 11:19 AM |
| Magnesium | 8.72 | 0.100 | 0.300 | | mg/L | 1 | 04/04/17 11:19 AM |
| Molybdenum | 0.0684 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:19 AM |
| Potassium | 0.863 | 0.100 | 0.300 | | mg/L | 1 | 04/04/17 11:19 AM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:19 AM |
| Sodium | 64.8 | 1.00 | 3.00 | | mg/L | 10 | 04/05/17 11:16 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 04/04/17 11:19 AM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 04/05/17 11:00 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 136 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 04/03/17 12:11 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 04/03/17 12:11 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 04/03/17 12:11 PM |
| Alkalinity, Total (As CaCO3) | 136 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 04/03/17 12:11 PM |

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds TCLP Maximum Concentration Level | B Analyte detected in the associated Method Blank |
| | C Sample Result or QC discussed in the Case Narrative | DF Dilution Factor |
| | E TPH pattern not Gas or Diesel Range Pattern | J Analyte detected between MDL and RL |
| | MDL Method Detection Limit | ND Not Detected at the Method Detection Limit |
| | RL Reporting Limit | S Spike Recovery outside control limits |

DHL Analytical, Inc.

Date: 07-Apr-17

CLIENT: B-Environmental
 Project: Coleta Creek Power
 Project No: CCR (53304)
 Lab Order: 1703260

Client Sample ID: MW 5
 Lab ID: 1703260-06
 Alternate ID: S17089162E
 Collection Date: 03/30/17 10:58 AM
 Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|--------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: CVD | | | |
| Dissolved Lithium | 0.0183 | 0.00500 | 0.0100 | | mg/L | 1 | 04/06/17 01:17 PM |
| Dissolved Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/06/17 01:17 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 04/04/17 11:21 AM |
| Arsenic | 0.00953 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:21 AM |
| Barium | 0.0748 | 0.00300 | 0.0100 | | mg/L | 1 | 04/04/17 11:21 AM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 11:21 AM |
| Boron | 0.110 | 0.0100 | 0.0300 | | mg/L | 1 | 04/05/17 01:23 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 11:21 AM |
| Calcium | 110 | 2.00 | 6.00 | | mg/L | 20 | 04/05/17 11:18 AM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:21 AM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 04/04/17 11:21 AM |
| Lead | 0.000362 | 0.000300 | 0.00100 | J | mg/L | 1 | 04/04/17 11:21 AM |
| Lithium | 0.0192 | 0.00500 | 0.0100 | | mg/L | 1 | 04/04/17 11:21 AM |
| Magnesium | 23.3 | 0.100 | 0.300 | | mg/L | 1 | 04/04/17 11:21 AM |
| Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:21 AM |
| Potassium | 1.58 | 0.100 | 0.300 | | mg/L | 1 | 04/04/17 11:21 AM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:21 AM |
| Sodium | 131 | 2.00 | 6.00 | | mg/L | 20 | 04/05/17 11:18 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 04/04/17 11:21 AM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 04/05/17 11:02 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 286 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 04/03/17 12:23 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 04/03/17 12:23 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 04/03/17 12:23 PM |
| Alkalinity, Total (As CaCO3) | 286 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 04/03/17 12:23 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 07-Apr-17

CLIENT: B-Environmental
 Work Order: 1703260
 Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_170405A

The QC data in batch 79830 applies to the following samples: 1703260-01A, 1703260-02A, 1703260-03A, 1703260-04A, 1703260-05A, 1703260-06A

| | | | | | | | |
|-----------|----------|-----------|-------------------|----------------|----------------------|------------|---------------------------------------|
| Sample ID | MB-79830 | Batch ID: | 79830 | TestNo: | SW7470A | Units: | mg/L |
| SampType: | MBLK | Run ID: | CETAC2_HG_170405A | Analysis Date: | 4/5/2017 10:02:26 AM | Prep Date: | 4/3/2017 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit HighLimit %RPD RPDLimit Qual |
| Mercury | | <0.000800 | 0.000200 | | | | |

| | | | | | | | |
|-----------|-----------|-----------|-------------------|----------------|----------------------|------------|---------------------------------------|
| Sample ID | LCS-79830 | Batch ID: | 79830 | TestNo: | SW7470A | Units: | mg/L |
| SampType: | LCS | Run ID: | CETAC2_HG_170405A | Analysis Date: | 4/5/2017 10:06:58 AM | Prep Date: | 4/3/2017 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit HighLimit %RPD RPDLimit Qual |
| Mercury | | 0.00208 | 0.000200 | 0.00200 | 0 | 104 | 85 115 |

| | | | | | | | |
|-----------|------------|-----------|-------------------|----------------|----------------------|------------|---------------------------------------|
| Sample ID | LCSD-79830 | Batch ID: | 79830 | TestNo: | SW7470A | Units: | mg/L |
| SampType: | LCSD | Run ID: | CETAC2_HG_170405A | Analysis Date: | 4/5/2017 10:09:15 AM | Prep Date: | 4/3/2017 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit HighLimit %RPD RPDLimit Qual |
| Mercury | | 0.00192 | 0.000200 | 0.00200 | 0 | 96.0 | 85 115 8.00 15 |

| | | | | | | | |
|-----------|----------------|-----------|-------------------|----------------|----------------------|------------|---------------------------------------|
| Sample ID | 1703259-05A SD | Batch ID: | 79830 | TestNo: | SW7470A | Units: | mg/L |
| SampType: | SD | Run ID: | CETAC2_HG_170405A | Analysis Date: | 4/5/2017 10:27:21 AM | Prep Date: | 4/3/2017 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit HighLimit %RPD RPDLimit Qual |
| Mercury | | <0.000400 | 0.00100 | 0 | 0 | | 0 10 |

| | | | | | | | |
|-----------|-----------------|-----------|-------------------|----------------|----------------------|------------|---------------------------------------|
| Sample ID | 1703259-05A PDS | Batch ID: | 79830 | TestNo: | SW7470A | Units: | mg/L |
| SampType: | PDS | Run ID: | CETAC2_HG_170405A | Analysis Date: | 4/5/2017 10:29:37 AM | Prep Date: | 4/3/2017 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit HighLimit %RPD RPDLimit Qual |
| Mercury | | 0.00209 | 0.000200 | 0.00250 | 0 | 83.6 | 85 115 S |

| | | | | | | | |
|-----------|----------------|-----------|-------------------|----------------|----------------------|------------|---------------------------------------|
| Sample ID | 1703259-05A MS | Batch ID: | 79830 | TestNo: | SW7470A | Units: | mg/L |
| SampType: | MS | Run ID: | CETAC2_HG_170405A | Analysis Date: | 4/5/2017 10:31:53 AM | Prep Date: | 4/3/2017 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit HighLimit %RPD RPDLimit Qual |
| Mercury | | 0.00170 | 0.000200 | 0.00200 | 0 | 85.0 | 80 120 |

| | | | | | | | |
|-----------|-----------------|-----------|-------------------|----------------|----------------------|------------|---------------------------------------|
| Sample ID | 1703259-05A MSD | Batch ID: | 79830 | TestNo: | SW7470A | Units: | mg/L |
| SampType: | MSD | Run ID: | CETAC2_HG_170405A | Analysis Date: | 4/5/2017 10:34:09 AM | Prep Date: | 4/3/2017 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit HighLimit %RPD RPDLimit Qual |
| Mercury | | 0.00176 | 0.000200 | 0.00200 | 0 | 88.0 | 80 120 3.47 15 |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
 Work Order: 1703260
 Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170404A

The QC data in batch 79805 applies to the following samples: 1703260-01A, 1703260-02A, 1703260-03A, 1703260-04A, 1703260-05A, 1703260-06A

| | | | | | | | |
|-----------|----------|-----------|-----------------|----------------|----------------------|------------|----------|
| Sample ID | MB-79805 | Batch ID: | 79805 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | MBLK | Run ID: | ICP-MS4_170404A | Analysis Date: | 4/4/2017 10:24:00 AM | Prep Date: | 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|-----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | <0.000800 | 0.00250 | | | | | | | | |
| Arsenic | <0.00200 | 0.00500 | | | | | | | | |
| Barium | <0.00300 | 0.0100 | | | | | | | | |
| Beryllium | <0.000300 | 0.00100 | | | | | | | | |
| Cadmium | <0.000300 | 0.00100 | | | | | | | | |
| Calcium | <0.100 | 0.300 | | | | | | | | |
| Chromium | <0.00200 | 0.00500 | | | | | | | | |
| Cobalt | <0.00300 | 0.00500 | | | | | | | | |
| Lead | <0.000300 | 0.00100 | | | | | | | | |
| Lithium | <0.00500 | 0.0100 | | | | | | | | |
| Magnesium | <0.100 | 0.300 | | | | | | | | |
| Molybdenum | <0.00200 | 0.00500 | | | | | | | | |
| Potassium | <0.100 | 0.300 | | | | | | | | |
| Selenium | <0.00200 | 0.00500 | | | | | | | | |
| Sodium | <0.100 | 0.300 | | | | | | | | |
| Thallium | <0.000500 | 0.00150 | | | | | | | | |

| | | | | | | | |
|-----------|-----------|-----------|-----------------|----------------|----------------------|------------|----------|
| Sample ID | LCS-79805 | Batch ID: | 79805 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | LCS | Run ID: | ICP-MS4_170404A | Analysis Date: | 4/4/2017 10:26:00 AM | Prep Date: | 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.192 | 0.00250 | 0.200 | 0 | 96.1 | 80 | 120 | | | |
| Arsenic | 0.198 | 0.00500 | 0.200 | 0 | 99.0 | 80 | 120 | | | |
| Barium | 0.197 | 0.0100 | 0.200 | 0 | 98.3 | 80 | 120 | | | |
| Beryllium | 0.203 | 0.00100 | 0.200 | 0 | 102 | 80 | 120 | | | |
| Cadmium | 0.200 | 0.00100 | 0.200 | 0 | 100 | 80 | 120 | | | |
| Calcium | 4.63 | 0.300 | 5.00 | 0 | 92.6 | 80 | 120 | | | |
| Chromium | 0.205 | 0.00500 | 0.200 | 0 | 102 | 80 | 120 | | | |
| Cobalt | 0.207 | 0.00500 | 0.200 | 0 | 104 | 80 | 120 | | | |
| Lead | 0.198 | 0.00100 | 0.200 | 0 | 99.1 | 80 | 120 | | | |
| Lithium | 0.200 | 0.0100 | 0.200 | 0 | 99.9 | 80 | 120 | | | |
| Magnesium | 4.94 | 0.300 | 5.00 | 0 | 98.8 | 80 | 120 | | | |
| Molybdenum | 0.193 | 0.00500 | 0.200 | 0 | 96.4 | 80 | 120 | | | |
| Potassium | 4.88 | 0.300 | 5.00 | 0 | 97.6 | 80 | 120 | | | |
| Selenium | 0.202 | 0.00500 | 0.200 | 0 | 101 | 80 | 120 | | | |
| Sodium | 4.98 | 0.300 | 5.00 | 0 | 99.5 | 80 | 120 | | | |
| Thallium | 0.197 | 0.00150 | 0.200 | 0 | 98.5 | 80 | 120 | | | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1703260
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170404A

| | | | | | | | |
|-----------|------------|-----------|-----------------|----------------|----------------------|------------|----------|
| Sample ID | LCSD-79805 | Batch ID: | 79805 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | LCSD | Run ID: | ICP-MS4_170404A | Analysis Date: | 4/4/2017 10:28:00 AM | Prep Date: | 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | 0.194 | 0.00250 | 0.200 | 0 | 97.1 | 80 | 120 | 1.04 | 15 | |
| Arsenic | 0.199 | 0.00500 | 0.200 | 0 | 99.6 | 80 | 120 | 0.627 | 15 | |
| Barium | 0.200 | 0.0100 | 0.200 | 0 | 100 | 80 | 120 | 1.76 | 15 | |
| Beryllium | 0.210 | 0.00100 | 0.200 | 0 | 105 | 80 | 120 | 3.00 | 15 | |
| Cadmium | 0.203 | 0.00100 | 0.200 | 0 | 102 | 80 | 120 | 1.58 | 15 | |
| Calcium | 4.65 | 0.300 | 5.00 | 0 | 92.9 | 80 | 120 | 0.371 | 15 | |
| Chromium | 0.207 | 0.00500 | 0.200 | 0 | 103 | 80 | 120 | 0.840 | 15 | |
| Cobalt | 0.208 | 0.00500 | 0.200 | 0 | 104 | 80 | 120 | 0.154 | 15 | |
| Lead | 0.200 | 0.00100 | 0.200 | 0 | 100 | 80 | 120 | 1.06 | 15 | |
| Lithium | 0.206 | 0.0100 | 0.200 | 0 | 103 | 80 | 120 | 3.17 | 15 | |
| Magnesium | 5.00 | 0.300 | 5.00 | 0 | 100 | 80 | 120 | 1.28 | 15 | |
| Molybdenum | 0.197 | 0.00500 | 0.200 | 0 | 98.4 | 80 | 120 | 1.99 | 15 | |
| Potassium | 4.94 | 0.300 | 5.00 | 0 | 98.8 | 80 | 120 | 1.19 | 15 | |
| Selenium | 0.202 | 0.00500 | 0.200 | 0 | 101 | 80 | 120 | 0.072 | 15 | |
| Sodium | 4.99 | 0.300 | 5.00 | 0 | 99.7 | 80 | 120 | 0.204 | 15 | |
| Thallium | 0.199 | 0.00150 | 0.200 | 0 | 99.3 | 80 | 120 | 0.833 | 15 | |

| | | | | | | | |
|-----------|----------------|-----------|-----------------|----------------|----------------------|------------|----------|
| Sample ID | 1703259-05A SD | Batch ID: | 79805 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | SD | Run ID: | ICP-MS4_170404A | Analysis Date: | 4/4/2017 10:34:00 AM | Prep Date: | 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|----------|---------|-----------|----------|------|----------|-----------|-------|----------|------|
| Antimony | <0.00400 | 0.0125 | 0 | 0 | | | | 0 | 10 | |
| Arsenic | <0.0100 | 0.0250 | 0 | 0.00827 | | | | 0 | 10 | |
| Barium | 0.0897 | 0.0500 | 0 | 0.0900 | | | | 0.327 | 10 | |
| Beryllium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Cadmium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Chromium | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Cobalt | <0.0150 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Lead | <0.00150 | 0.00500 | 0 | 0.000996 | | | | 0 | 10 | |
| Lithium | <0.0250 | 0.0500 | 0 | 0.00981 | | | | 0 | 10 | |
| Magnesium | 9.69 | 1.50 | 0 | 9.30 | | | | 4.14 | 10 | |
| Molybdenum | <0.0100 | 0.0250 | 0 | 0.00749 | | | | 0 | 10 | |
| Potassium | 0.930 | 1.50 | 0 | 0.918 | | | | 1.27 | 10 | |
| Selenium | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Thallium | <0.00250 | 0.00750 | 0 | 0 | | | | 0 | 10 | |

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|----------------------|------------|----------|
| Sample ID | 1703259-05A PDS | Batch ID: | 79805 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | PDS | Run ID: | ICP-MS4_170404A | Analysis Date: | 4/4/2017 10:53:00 AM | Prep Date: | 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.205 | 0.00250 | 0.200 | 0 | 102 | 80 | 120 | | | |

- | | |
|--|---|
| <p>Qualifiers:</p> <ul style="list-style-type: none"> B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | <ul style="list-style-type: none"> DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified |
|--|---|

CLIENT: B-Environmental
 Work Order: 1703260
 Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170404A

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|----------------------|------------|----------|
| Sample ID | 1703259-05A PDS | Batch ID: | 79805 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | PDS | Run ID: | ICP-MS4_170404A | Analysis Date: | 4/4/2017 10:53:00 AM | Prep Date: | 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|----------|------|----------|-----------|------|----------|------|
| Arsenic | 0.204 | 0.00500 | 0.200 | 0.00827 | 98.0 | 80 | 120 | | | |
| Barium | 0.292 | 0.0100 | 0.200 | 0.0900 | 101 | 80 | 120 | | | |
| Beryllium | 0.192 | 0.00100 | 0.200 | 0 | 95.9 | 80 | 120 | | | |
| Cadmium | 0.198 | 0.00100 | 0.200 | 0 | 98.9 | 80 | 120 | | | |
| Chromium | 0.203 | 0.00500 | 0.200 | 0 | 102 | 80 | 120 | | | |
| Cobalt | 0.204 | 0.00500 | 0.200 | 0 | 102 | 80 | 120 | | | |
| Lead | 0.201 | 0.00100 | 0.200 | 0.000996 | 100 | 80 | 120 | | | |
| Lithium | 0.200 | 0.0100 | 0.200 | 0.00981 | 95.3 | 80 | 120 | | | |
| Magnesium | 13.8 | 0.300 | 5.00 | 9.29 | 90.4 | 80 | 120 | | | |
| Molybdenum | 0.199 | 0.00500 | 0.200 | 0.00749 | 96.0 | 80 | 120 | | | |
| Potassium | 5.97 | 0.300 | 5.00 | 0.918 | 101 | 80 | 120 | | | |
| Selenium | 0.200 | 0.00500 | 0.200 | 0 | 99.9 | 80 | 120 | | | |
| Thallium | 0.197 | 0.00150 | 0.200 | 0 | 98.7 | 80 | 120 | | | |

| | | | | | | | |
|-----------|----------------|-----------|-----------------|----------------|----------------------|------------|----------|
| Sample ID | 1703259-05A MS | Batch ID: | 79805 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | MS | Run ID: | ICP-MS4_170404A | Analysis Date: | 4/4/2017 10:55:00 AM | Prep Date: | 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|----------|------|----------|-----------|------|----------|------|
| Antimony | 0.193 | 0.00250 | 0.200 | 0 | 96.4 | 80 | 120 | | | |
| Arsenic | 0.205 | 0.00500 | 0.200 | 0.00827 | 98.3 | 80 | 120 | | | |
| Barium | 0.288 | 0.0100 | 0.200 | 0.0900 | 98.9 | 80 | 120 | | | |
| Beryllium | 0.188 | 0.00100 | 0.200 | 0 | 94.1 | 80 | 120 | | | |
| Cadmium | 0.194 | 0.00100 | 0.200 | 0 | 97.2 | 80 | 120 | | | |
| Calcium | 77.2 | 0.300 | 5.00 | 73.8 | 67.5 | 80 | 120 | | | |
| Chromium | 0.197 | 0.00500 | 0.200 | 0 | 98.5 | 80 | 120 | | | S |
| Cobalt | 0.201 | 0.00500 | 0.200 | 0 | 101 | 80 | 120 | | | |
| Lead | 0.201 | 0.00100 | 0.200 | 0.000996 | 100 | 80 | 120 | | | |
| Lithium | 0.197 | 0.0100 | 0.200 | 0.00981 | 93.6 | 80 | 120 | | | |
| Magnesium | 13.9 | 0.300 | 5.00 | 9.29 | 91.6 | 80 | 120 | | | |
| Molybdenum | 0.199 | 0.00500 | 0.200 | 0.00749 | 95.9 | 80 | 120 | | | |
| Potassium | 5.84 | 0.300 | 5.00 | 0.918 | 98.5 | 80 | 120 | | | |
| Selenium | 0.203 | 0.00500 | 0.200 | 0 | 101 | 80 | 120 | | | |
| Sodium | 72.8 | 0.300 | 5.00 | 69.6 | 63.8 | 80 | 120 | | | |
| Thallium | 0.199 | 0.00150 | 0.200 | 0 | 99.5 | 80 | 120 | | | S |

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|----------------------|------------|----------|
| Sample ID | 1703259-05A MSD | Batch ID: | 79805 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | MSD | Run ID: | ICP-MS4_170404A | Analysis Date: | 4/4/2017 10:57:00 AM | Prep Date: | 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|---------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | 0.194 | 0.00250 | 0.200 | 0 | 97.2 | 80 | 120 | 0.870 | 15 | |
| Arsenic | 0.205 | 0.00500 | 0.200 | 0.00827 | 98.3 | 80 | 120 | 0.030 | 15 | |

Qualifiers:
 B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1703260
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170404A

| | | | |
|-----------------------------------|--------------------------------|--|----------------------------|
| Sample ID: 1703259-05A MSD | Batch ID: 79805 | TestNo: SW6020A | Units: mg/L |
| SampType: MSD | Run ID: ICP-MS4_170404A | Analysis Date: 4/4/2017 10:57:00 AM | Prep Date: 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|----------|------|----------|-----------|-------|----------|------|
| Barium | 0.292 | 0.0100 | 0.200 | 0.0900 | 101 | 80 | 120 | 1.28 | 15 | |
| Beryllium | 0.189 | 0.00100 | 0.200 | 0 | 94.4 | 80 | 120 | 0.266 | 15 | |
| Cadmium | 0.196 | 0.00100 | 0.200 | 0 | 97.8 | 80 | 120 | 0.688 | 15 | |
| Calcium | 77.7 | 0.300 | 5.00 | 73.8 | 78.1 | 80 | 120 | 0.682 | 15 | |
| Chromium | 0.197 | 0.00500 | 0.200 | 0 | 98.6 | 80 | 120 | 0.111 | 15 | S |
| Cobalt | 0.201 | 0.00500 | 0.200 | 0 | 100 | 80 | 120 | 0.113 | 15 | |
| Lead | 0.203 | 0.00100 | 0.200 | 0.000996 | 101 | 80 | 120 | 0.632 | 15 | |
| Lithium | 0.195 | 0.0100 | 0.200 | 0.00981 | 92.8 | 80 | 120 | 0.755 | 15 | |
| Magnesium | 13.9 | 0.300 | 5.00 | 9.29 | 91.7 | 80 | 120 | 0.042 | 15 | |
| Molybdenum | 0.201 | 0.00500 | 0.200 | 0.00749 | 96.7 | 80 | 120 | 0.821 | 15 | |
| Potassium | 5.82 | 0.300 | 5.00 | 0.918 | 98.0 | 80 | 120 | 0.448 | 15 | |
| Selenium | 0.203 | 0.00500 | 0.200 | 0 | 101 | 80 | 120 | 0.150 | 15 | |
| Sodium | 72.5 | 0.300 | 5.00 | 69.6 | 56.5 | 80 | 120 | 0.499 | 15 | |
| Thallium | 0.200 | 0.00150 | 0.200 | 0 | 100 | 80 | 120 | 0.520 | 15 | S |

| | | | | |
|--------------------|----|---|-----|---------------------------------------|
| Qualifiers: | B | Analyte detected in the associated Method Blank | DF | Dilution Factor |
| | J | Analyte detected between MDL and RL | MDL | Method Detection Limit |
| | ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| | RL | Reporting Limit | S | Spike Recovery outside control limits |
| | J | Analyte detected between SDL and RL | N | Parameter not NELAC certified |

CLIENT: B-Environmental
Work Order: 1703260
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170405A

The QC data in batch 79805 applies to the following samples: 1703260-01A, 1703260-02A, 1703260-03A, 1703260-04A, 1703260-05A, 1703260-06A

| | | | | | | | | | | |
|---------------------------|--------------------------------|--|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID MB-79805 | Batch ID: 79805 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: MBLK | Run ID: ICP-MS4_170405A | Analysis Date: 4/5/2017 10:24:00 AM | Prep Date: 4/3/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | <0.0100 | 0.0300 | | | | | | | | |

| | | | | | | | | | | |
|----------------------------|--------------------------------|--|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID LCS-79805 | Batch ID: 79805 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: LCS | Run ID: ICP-MS4_170405A | Analysis Date: 4/5/2017 10:26:00 AM | Prep Date: 4/3/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 0.205 | 0.0300 | 0.200 | 0 | 102 | 80 | 120 | | | |

| | | | | | | | | | | |
|-----------------------------|--------------------------------|--|----------------------------|---------|------|----------|-----------|-------|----------|------|
| Sample ID LCSD-79805 | Batch ID: 79805 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: LCSD | Run ID: ICP-MS4_170405A | Analysis Date: 4/5/2017 10:28:00 AM | Prep Date: 4/3/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 0.206 | 0.0300 | 0.200 | 0 | 103 | 80 | 120 | 0.589 | 15 | |

| | | | | | | | | | | |
|---------------------------------|--------------------------------|--|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1703259-05A SD | Batch ID: 79805 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: SD | Run ID: ICP-MS4_170405A | Analysis Date: 4/5/2017 10:34:00 AM | Prep Date: 4/3/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 1.73 | 1.50 | 0 | 1.67 | | | | 3.63 | 10 | |
| Calcium | 75.3 | 15.0 | 0 | 73.9 | | | | 1.92 | 10 | |
| Sodium | 74.3 | 15.0 | 0 | 71.6 | | | | 3.69 | 10 | |

| | | | | | | | | | | |
|----------------------------------|--------------------------------|--|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1703259-05A PDS | Batch ID: 79805 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: PDS | Run ID: ICP-MS4_170405A | Analysis Date: 4/5/2017 10:54:00 AM | Prep Date: 4/3/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 3.88 | 0.300 | 2.00 | 1.67 | 110 | 80 | 120 | | | |
| Calcium | 124 | 3.00 | 50.0 | 73.9 | 100 | 80 | 120 | | | |
| Sodium | 127 | 3.00 | 50.0 | 71.6 | 111 | 80 | 120 | | | |

| | | | | | | | | | | |
|---------------------------------|--------------------------------|--|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1703259-05A MS | Batch ID: 79805 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: MS | Run ID: ICP-MS4_170405A | Analysis Date: 4/5/2017 10:56:00 AM | Prep Date: 4/3/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 1.94 | 0.300 | 0.200 | 1.67 | 137 | 80 | 120 | | | S |

| | | | | | | | | | | |
|----------------------------------|--------------------------------|--|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1703259-05A MSD | Batch ID: 79805 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: MSD | Run ID: ICP-MS4_170405A | Analysis Date: 4/5/2017 10:58:00 AM | Prep Date: 4/3/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1703260
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170405A

| | | | | | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|----------------------|------------|----------|-----------|------|----------|------|
| Sample ID | 1703259-05A MSD | Batch ID: | 79805 | TestNo: | SW6020A | Units: | mg/L | | | | |
| SampType: | MSD | Run ID: | ICP-MS4_170405A | Analysis Date: | 4/5/2017 10:58:00 AM | Prep Date: | 4/3/2017 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | | 1.91 | 0.300 | 0.200 | 1.67 | 123 | 80 | 120 | 1.50 | 15 | S |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1703260
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170406B

The QC data in batch 79865 applies to the following samples: 1703260-01B, 1703260-02B, 1703260-03B, 1703260-04B, 1703260-05B, 1703260-06B

| | | | | | | | | | | |
|---------------------------|--------------------------------|--|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID MB-79865 | Batch ID: 79865 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: MBLK | Run ID: ICP-MS5_170406B | Analysis Date: 4/6/2017 12:30:00 PM | Prep Date: 4/5/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | <0.00500 | 0.0100 | | | | | | | | |
| Molybdenum | <0.00200 | 0.00500 | | | | | | | | |

| | | | | | | | | | | |
|----------------------------|--------------------------------|--|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID LCS-79865 | Batch ID: 79865 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: LCS | Run ID: ICP-MS5_170406B | Analysis Date: 4/6/2017 12:31:00 PM | Prep Date: 4/5/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.200 | 0.0100 | 0.200 | 0 | 100 | 80 | 120 | | | |
| Molybdenum | 0.190 | 0.00500 | 0.200 | 0 | 94.8 | 80 | 120 | | | |

| | | | | | | | | | | |
|-----------------------------|--------------------------------|--|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID LCSD-79865 | Batch ID: 79865 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: LCSD | Run ID: ICP-MS5_170406B | Analysis Date: 4/6/2017 12:33:00 PM | Prep Date: 4/5/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.206 | 0.0100 | 0.200 | 0 | 103 | 80 | 120 | 3.04 | 15 | |
| Molybdenum | 0.193 | 0.00500 | 0.200 | 0 | 96.5 | 80 | 120 | 1.82 | 15 | |

| | | | | | | | | | | |
|---------------------------------|--------------------------------|--|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1703259-05B SD | Batch ID: 79865 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: SD | Run ID: ICP-MS5_170406B | Analysis Date: 4/6/2017 12:38:00 PM | Prep Date: 4/5/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | <0.0250 | 0.0500 | 0 | 0.00925 | | | | 0 | 10 | |
| Molybdenum | <0.0100 | 0.0250 | 0 | 0.00693 | | | | 0 | 10 | |

| | | | | | | | | | | |
|----------------------------------|--------------------------------|--|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1703259-05B PDS | Batch ID: 79865 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: PDS | Run ID: ICP-MS5_170406B | Analysis Date: 4/6/2017 12:56:00 PM | Prep Date: 4/5/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.202 | 0.0100 | 0.200 | 0.00925 | 96.4 | 80 | 120 | | | |
| Molybdenum | 0.193 | 0.00500 | 0.200 | 0.00693 | 92.9 | 80 | 120 | | | |

| | | | | | | | | | | |
|---------------------------------|--------------------------------|--|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1703259-05B MS | Batch ID: 79865 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: MS | Run ID: ICP-MS5_170406B | Analysis Date: 4/6/2017 12:58:00 PM | Prep Date: 4/5/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.205 | 0.0100 | 0.200 | 0.00925 | 97.8 | 80 | 120 | | | |
| Molybdenum | 0.198 | 0.00500 | 0.200 | 0.00693 | 95.4 | 80 | 120 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1703260
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170406B

| Sample ID | 1703259-05B MSD | Batch ID: | 79865 | TestNo: | SW6020A | Units: | mg/L | | | |
|------------|------------------------|-----------|------------------------|----------------|-----------------------------|------------|-----------------|-------|----------|------|
| SampType: | MSD | Run ID: | ICP-MS5_170406B | Analysis Date: | 4/6/2017 12:59:00 PM | Prep Date: | 4/5/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.197 | 0.0100 | 0.200 | 0.00925 | 93.8 | 80 | 120 | 3.99 | 15 | |
| Molybdenum | 0.198 | 0.00500 | 0.200 | 0.00693 | 95.3 | 80 | 120 | 0.079 | 15 | |

| | | | | |
|--------------------|----|---|-----|---------------------------------------|
| Qualifiers: | B | Analyte detected in the associated Method Blank | DF | Dilution Factor |
| | J | Analyte detected between MDL and RL | MDL | Method Detection Limit |
| | ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| | RL | Reporting Limit | S | Spike Recovery outside control limits |
| | J | Analyte detected between SDL and RL | N | Parameter not NELAC certified |

CLIENT: B-Environmental
Work Order: 1703260
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_170403A

The QC data in batch 79803 applies to the following samples: 1703260-01C, 1703260-02C, 1703260-03C, 1703260-04C, 1703260-05C, 1703260-06C

| | | | |
|---------------------------|---------------------------------|---|------------------------------|
| Sample ID MB-79803 | Batch ID: 79803 | TestNo: M2320 B | Units: mg/L @ pH 4.34 |
| SampType: MBLK | Run ID: TITRATOR_170403A | Analysis Date: 4/3/2017 9:09:00 AM | Prep Date: 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Total (As CaCO3) | <20.0 | 20.0 | | | | | | | | |

| | | | |
|----------------------------|---------------------------------|---|------------------------------|
| Sample ID LCS-79803 | Batch ID: 79803 | TestNo: M2320 B | Units: mg/L @ pH 4.22 |
| SampType: LCS | Run ID: TITRATOR_170403A | Analysis Date: 4/3/2017 9:13:00 AM | Prep Date: 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Total (As CaCO3) | 50.2 | 20.0 | 50.00 | 0 | 100 | 74 | 129 | | | |

| | | | |
|----------------------------------|---------------------------------|--|-----------------------------|
| Sample ID 1703258-01C-DUP | Batch ID: 79803 | TestNo: M2320 B | Units: mg/L @ pH 4.5 |
| SampType: DUP | Run ID: TITRATOR_170403A | Analysis Date: 4/3/2017 10:04:00 AM | Prep Date: 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | 111 | 20.0 | 0 | 113.7 | | | | 2.76 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | 111 | 20.0 | 0 | 113.7 | | | | 2.76 | 20 | |

| | | | |
|----------------------------------|---------------------------------|--|------------------------------|
| Sample ID 1703259-05C-DUP | Batch ID: 79803 | TestNo: M2320 B | Units: mg/L @ pH 4.52 |
| SampType: DUP | Run ID: TITRATOR_170403A | Analysis Date: 4/3/2017 11:06:00 AM | Prep Date: 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | 180 | 20.0 | 0 | 181.2 | | | | 0.720 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | 180 | 20.0 | 0 | 181.2 | | | | 0.720 | 20 | |

- | | |
|--|---|
| <p>Qualifiers:</p> <ul style="list-style-type: none"> B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | <ul style="list-style-type: none"> DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified |
|--|---|



2609 North River Road, Port Allen, Louisiana 70767
 1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-00840
 Client Sample ID: S170891624 (BATCH 53304)
 Sample Collection Date: 03/30/17
 Sample Matrix: Aqueous
 Percent Solids: N/A

Request or PO Number: N/A
 ARS Sample ID: ARS1-17-00840-001
 Date Received: 03/31/17
 Report Date: 04/28/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.192 | 0.136 | 0.185 | 0.075 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 04/17/17 7:34 | SCAUSEY | 86% |
| Ra-228 | 1.247 | 0.927 | 1.449 | 0.575 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 04/07/17 13:23 | SCAUSEY | 81% |

Project Manager Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

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 1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-00840
 Client Sample ID: S17089162A (BATCH 53304)
 Sample Collection Date: 03/30/17
 Sample Matrix: Aqueous
 Percent Solids: N/A

Request or PO Number: N/A
 ARS Sample ID: ARS1-17-00840-002
 Date Received: 03/31/17
 Report Date: 04/28/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.146 | 0.115 | 0.156 | 0.060 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 04/17/17 7:34 | SCAUSEY | 92% |
| Ra-228 | 0.837 | 0.784 | 1.264 | 0.586 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 04/07/17 13:23 | SCAUSEY | 88% |

Project Manager Review

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1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-00840
 Client Sample ID: S17089162B (BATCH 53304)
 Sample Collection Date: 03/30/17
 Sample Matrix: Aqueous
 Percent Solids: N/A

Request or PO Number: N/A
 ARS Sample ID: ARS1-17-00840-003
 Date Received: 03/31/17
 Report Date: 04/28/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.182 | 0.123 | 0.162 | 0.064 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 04/17/17 7:34 | SCAUSEY | 100% |
| Ra-228 | 0.468 | 0.727 | 1.232 | 0.573 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 04/07/17 13:23 | SCAUSEY | 94% |

Project Manager Review

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 1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-00840
 Client Sample ID: S17089162C (BATCH 53304)
 Sample Collection Date: 03/30/17
 Sample Matrix: Aqueous
 Percent Solids: N/A

Request or PO Number: N/A
 ARS Sample ID: ARS1-17-00840-004
 Date Received: 03/31/17
 Report Date: 04/28/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.456 | 0.190 | 0.168 | 0.065 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 04/17/17 7:34 | SCAUSEY | 90% |
| Ra-228 | 0.897 | 0.798 | 1.277 | 0.592 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 04/07/17 13:23 | SCAUSEY | 84% |

Project Manager Review

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 1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-00840

Request or PO Number: N/A

Client Sample ID: S17089162D (BATCH 53304)

ARS Sample ID: ARS1-17-00840-005

Sample Collection Date: 03/30/17

Date Received: 03/31/17

Sample Matrix: Aqueous

Report Date: 04/28/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.201 | 0.122 | 0.141 | 0.053 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 04/17/17 7:34 | SCAUSEY | 94% |
| Ra-228 | 0.869 | 0.803 | 1.292 | 0.599 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 04/07/17 13:23 | SCAUSEY | 88% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-00840

Request or PO Number: N/A

Client Sample ID: S17089162E (BATCH 53304)

ARS Sample ID: ARS1-17-00840-006

Sample Collection Date: 03/30/17

Date Received: 03/31/17

Sample Matrix: Aqueous

Report Date: 04/28/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.191 | 0.126 | 0.150 | 0.056 | | NP | pCi/L | ARS-010/EPA 903.0/904.0 | 04/17/17 7:34 | SCAUSEY | 81% |
| Ra-228 | 1.252 | 1.127 | 1.822 | 0.859 | | NP U | pCi/L | ARS-010/EPA 903.0/904.0 | 04/07/17 13:23 | SCAUSEY | 76% |

Project Manager Review

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QC Results Report

2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

Sample Delivery Group: ARS1-17-00825;839;840

Laboratory Control Sample Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | LCS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|----------------------|
| ARS1-B17-00590 | LCS | RA-226 | 23.519 | 3.793 | 0.080 | 27.623 | N/A | pCi/L | ARS-010/EPA 903 | 4/17/17 7:34 | SC | 85 | 75%-125% |
| ARS1-B17-00590 | LCS | RA-228 | 34.549 | 5.771 | 1.052 | 39.784 | N/A | pCi/L | ARS-010/EPA 904 | 4/17/17 7:34 | SC | 87 | 75%-125% |

Blank Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|
| ARS1-B17-00590 | MBL | RA-226 | 0.018 | 0.044 | 0.082 | NA | U | pCi/L | ARS-010/EPA 903 | 4/17/17 7:34 | SC |
| ARS1-B17-00590 | MBL | RA-228 | -0.034 | 0.340 | 0.618 | NA | U | pCi/L | ARS-010/EPA 904 | 4/17/17 7:34 | SC |

RER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | RER | RER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-00590 | LCSD | RA-226 | 23.519 | 3.793 | 26.740 | 4.308 | N/A | pCi/L | ARS-010/EPA 903 | 4/17/17 7:34 | SC | 0.40 | < 1 |
| ARS1-B17-00590 | LCSD | RA-228 | 34.549 | 5.771 | 36.569 | 6.096 | N/A | pCi/L | ARS-010/EPA 904 | 4/17/17 7:34 | SC | 0.17 | < 1 |

DER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | DER | DER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-00590 | LCSD | RA-226 | 23.519 | 3.793 | 26.740 | 4.308 | N/A | pCi/L | ARS-010/EPA 903 | 4/17/17 7:34 | SC | 1.12 | < 3 |
| ARS1-B17-00590 | LCSD | RA-228 | 34.549 | 5.771 | 36.569 | 6.096 | N/A | pCi/L | ARS-010/EPA 904 | 4/17/17 7:34 | SC | 0.48 | < 3 |

Project Manager Review

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LELAP Certificate# 01949

NELAP Certificate # E87558



2609 North River Road • Port Allen, Louisiana 70767

1 (800) 401-4277 • Fax (225) 381-2996

Notes (Case Narrative):

Comments:

- 1.0) All MDA/MDC values are calculated on a sample specific basis.
- 2.0) Soil and Sludge analysis are reported on a wet basis or an as received basis unless otherwise indicated.
- 3.0) Data in this report are within the limits of uncertainty specified in the reference method unless otherwise specified.
- 4.0) Modified analysis procedures are procedures that are modified to meet the certain specifications. An example may be the use of a water method to analyze a solid matrix due to the lack of an officially recognized procedure for the analysis of the solid matrix. Modified analyses are indicated by the subsequent addition of "m" to the procedure number (i.e. 900.0M).
- 5.0) Total activity is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring radioactive decay chains and other prominent radioactive nuclides. Total activity may be lower than the actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not representative of nuclides that emit solely alpha or beta particles.
- 6.0) Ra-228 is determined via secular equilibrium with its daughter, Actinium 228 (Gamma Spectroscopy only).
- 7.0) U-238 is determined via secular equilibrium with its daughter, Thorium 234 (Gamma Spectroscopy only).
- 8.0) All gamma spectroscopy was performed utilizing high purity germanium detectors (HPGe).
- 9.0) ARS makes every attempt to match sample density to calibrated density; however, in some cases, it is not practical or possible to do so and data results may be affected (Gamma Spectroscopy only).
- 10.0) Gamma spectroscopy results are calculated values based on the ORTEC® GammaVision ENV32 Analysis Engine.
- 11.0) ACLASS DOD and ISO 17025 certification applies only to the following analytes and methods: Gross Alpha and Gross Beta (EPA 900, SM7110B&C, SW846 9310); Radium 226 (EPA 903, EPA 903.1, SM 7500 Ra-B, SW846 9315); Radium 228 (EPA 904, SM 7500 Ra-B SW846 9320); Iodine-131(EPA 901.1); Uranium by ICPMS (EPA 200.8); Strontium 89/90 (EPA 905, Eichrom SRW01, HASL 300 Sr-03-RC); Tritium (EPA 906, EPA 906M); Gamma Emitters (EPA 901.1, SM7120B, HASL 300 Ga-01-R); Americium-241, Curium 242/244, Plutonium 239/240 and 241, Thorium 228/230/232, Uranium 234/233 and 238 (Eichrom ACW03 VBS); Lead 210 (HASL 300 Pb-01-RC, Eichrom OTW01); Polonium 210 (HASL 300 Po-01-RC, HASL 300 Po-02-RC); Technetium-99 (Eichrom TCW02, Eichrom TCS01M).

Method References:

- 1.0) EPA 600/4-80-032; Prescribed Procedures for the Measurements of Radioactivity in Drinking Water, August 1980.
- 2.0) Standard Methods for the Examination of Water and Wastewater (On-Line Edition)
- 3.0) EPA SW-846; Test Methods for Evaluating Solid Waste, (On-Line edition)
- 4.0) EPA 600/4/79-020; Methods for Chemical Analysis of Water and Waste, March 1983.
- 5.0) HASL 300; The Procedures Manual of the Environmental Measurements Laboratory, Volume I, 26th Edition February, 1997.

Definitions:

| | |
|----------|---|
| CRDL | Contract Required Detection Limit |
| CSU | Combined Standard Uncertainty |
| DLC | Decision Level Concentration (ANSI N42.23) or critical level |
| DO | Duplicate Original |
| DUP | Method Duplicate |
| LCS/LCSD | Laboratory Control Sample/Laboratory Control Sample Duplicate |
| MDA | Minimum Detectable Activity |
| MDC | (Minimum Detectable Concentration) minimum concentration of the analyte that ARS can detect utilizing the specific analysis |
| MBL | Method Blank |
| MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| N/A | Not Applicable |
| NP | Not Provided |
| NR | Not Referenced |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |

Data Qualifiers:

| | |
|----|--|
| B | The analyte is found in both the associated method blank and the sample. This flag indicates probable blank contamination. |
| D | Sample analysis accomplished through dilution. |
| J | The reported result is an estimated value above the limit of detection but outside of quantitation range (e.g., matrix interference was observed). |
| Q | One or more quality control criteria failed (e.g., LCS recovery, surrogate spike recovery, or CCV recovery). |
| U | Activity is below the MDC, MDA, MDL, or LOD |
| N | The analyte is a tentatively identified compound using mass spectrometry or any non-customer requested compounds that are tentatively identified. |
| * | LCS/LCSD or MS/MSD fails RPD criteria. |
| S | Spike |
| SC | Subcontracted out to another qualified laboratory |
| H | Holding time exceeded |

ARS-059-010
Revision: 9.1
Revision Date: 03-14-2017

LELAP Cert# 01949

NELAP Cert# E87558



Customer / Report Information

Name: Colo Creek Power
 Attention: rick coleman
 Address:

Billing Information

Address:
 Attention:
 Project: CCR Sampling
 Comments:

Check box if Billing is the same as Report Information

Batch # 53304
 TEMP UN-CAL
 THERM ID# 3
 TEMP Corr: 0.2
 Page 1 of 1

PO#:
 Phone: 361-708-5145
 EMAIL: Richard.Coleman@enviro.com
 FAX:

| Collected By: | Collected | | Matrix | Container | TYPE | NUMBER | SIZE | Preservative | Custody Seals Present |
|---------------|-----------|------|--------|-----------|------|--------|------|--|--|
| | Date | Time | | | | | | | |
| MW 10 | 3-30-17 | 1345 | G | W | P | 6500 | LL | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> NaNO3 <input checked="" type="checkbox"/> NaCl <input checked="" type="checkbox"/> Na2SO3 | Yes <input type="checkbox"/> Intact <input type="checkbox"/> LAB Sample Number |
| MW 10 A | 3-30-17 | 1313 | | | | | | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> NaNO3 <input checked="" type="checkbox"/> NaCl <input checked="" type="checkbox"/> Na2SO3 | Yes <input type="checkbox"/> Intact <input type="checkbox"/> LAB Sample Number |
| PS3 | 3-30-17 | 836 | | | | | | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> NaNO3 <input checked="" type="checkbox"/> NaCl <input checked="" type="checkbox"/> Na2SO3 | Yes <input type="checkbox"/> Intact <input type="checkbox"/> LAB Sample Number |
| MW 9 | 3-30-17 | 945 | | | | | | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> NaNO3 <input checked="" type="checkbox"/> NaCl <input checked="" type="checkbox"/> Na2SO3 | Yes <input type="checkbox"/> Intact <input type="checkbox"/> LAB Sample Number |
| MW 9A | 3-30-17 | 913 | | | | | | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> NaNO3 <input checked="" type="checkbox"/> NaCl <input checked="" type="checkbox"/> Na2SO3 | Yes <input type="checkbox"/> Intact <input type="checkbox"/> LAB Sample Number |
| MW 5 | 3-30-17 | 1058 | | | | | | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> NaNO3 <input checked="" type="checkbox"/> NaCl <input checked="" type="checkbox"/> Na2SO3 | Yes <input type="checkbox"/> Intact <input type="checkbox"/> LAB Sample Number |

Required Turnaround: Routine (6-10 Business Days) Expedite / Rush: 1 Business Day 2 Business Days 3 Business Days 5 Business Days Other

Surcharge will apply to RUSH/TAT Authorized By: _____

Relinquished By: _____ Date: 3-30-17 Time: 1625
 Relinquished By: _____ Date: _____ Time: _____
 Relinquished By: _____ Date: _____ Time: _____

1606 E Brazos Suite D, Victoria, Texas 77901 Ph. (361) 572-8224 Fax (361) 572-4115 Toll Free 1-800-460-8223 Form # 1000-0-2 REV 12
 Email: kbern@enviro.com
 Fluoride: 0.25 mg/L; Metals: Pb, Cd, Sb, As, Ba, Bi, Cr, Cu, Ni, Mo, Se, Ti, Mg, K, Na, Hg



April 07, 2017

Lori Vahrenkamp
B-Environmental
1606 E Brazos St
Suite D
Victoria, Texas 77901
TEL: (361) 572-8224
FAX (361) 572-4115
RE: Coletto Creek Power

Order No.: 1703260

Dear Lori Vahrenkamp:

DHL Analytical, Inc. received 6 sample(s) on 3/31/2017 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative and all estimated uncertainties of results are within method specifications.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in red ink, appearing to read "John DuPont", is written over a white background.

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-17-18



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B-Environmental
 1606 E Brazos St, Ste D
 Victoria TX 77901
 Phone: (361) 572-8224
 FAX: (361) 572-4115

Chain of Custody & Subcontract Tracking Sheet

To: DHL

1703260

| DHL Number | Batch # | BE Number | Client Name | Project | Sample ID | Time Taken | Date Taken | Parameter | Pres. | Due Date |
|------------|---------|------------|--------------------|---------|-----------|------------|------------|---|----------------|----------|
| 01 | 53304 | S17089162A | Coleta Creek Power | CCR | MW 10 | 1345 | 03-30-17 | Total Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr, Co,Pb,Li,Mo,Se,Tl,Mg,K,Na; Mercury; Dissolved Li & Mo (Field Filtered); Alkalinity (Total, Carb, BiCarb). | HNO3 & ICE (3) | 4/13 |
| 02 | 53304 | S17089162A | Coleta Creek Power | CCR | MW 10A | 1313 | 03-30-17 | Total Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr, Co,Pb,Li,Mo,Se,Tl,Mg,K,Na; Mercury; Dissolved Li & Mo (Field Filtered); Alkalinity (Total, Carb, BiCarb). | HNO3 & ICE (3) | 4/13 |
| 03 | 53304 | S17089162B | Coleta Creek Power | CCR | PS 3 | 0836 | 03-30-17 | Total Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr, Co,Pb,Li,Mo,Se,Tl,Mg,K,Na; Mercury; Dissolved Li & Mo (Field Filtered); Alkalinity (Total, Carb, BiCarb). | HNO3 & ICE (3) | 4/13 |
| 04 | 53304 | S17089162C | Coleta Creek Power | CCR | MW 9 | 0945 | 03-30-17 | Total Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr, Co,Pb,Li,Mo,Se,Tl,Mg,K,Na; Mercury; Dissolved Li & Mo (Field Filtered); Alkalinity (Total, Carb, BiCarb). | HNO3 & ICE (3) | 4/13 |
| 05 | 53304 | S17089162D | Coleta Creek Power | CCR | MW 9A | 0913 | 03-30-17 | Total Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr, Co,Pb,Li,Mo,Se,Tl,Mg,K,Na; Mercury; Dissolved Li & Mo (Field Filtered); Alkalinity (Total, Carb, BiCarb). | HNO3 & ICE (3) | 4/13 |
| 06 | 53304 | S17089162E | Coleta Creek Power | CCR | MW 5 | 1058 | 03-30-17 | Total Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr, Co,Pb,Li,Mo,Se,Tl,Mg,K,Na; Mercury; Dissolved Li & Mo (Field Filtered); Alkalinity (Total, Carb, BiCarb). | HNO3 & ICE (3) | 4/13 |

Comments: Rec temp 1.5 Spec #73
via honesta custody seal intact

Please E-Mail results to: dbenviro@suddenlinkmail.com

| | | |
|-------------------------------------|----------------------|-------------------|
| Relinquished by: <u>[Signature]</u> | Date: <u>3/30/17</u> | Time: <u>1700</u> |
| Received by: <u>[Signature]</u> | Date: <u>3/31/17</u> | Time: <u>820</u> |

COC Checked By: [Signature]

COC Verified with Cooler By: [Signature]



Airbill No. ZU880657

Lone Star Overnight
1-800-800-8984
www.lso.com

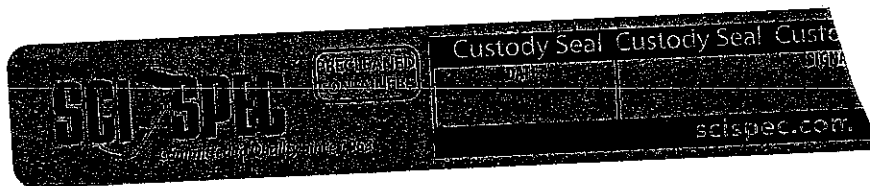
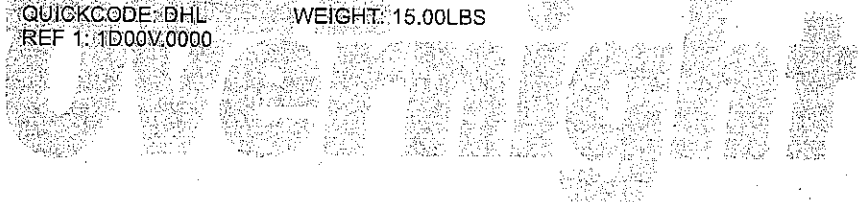
SHIP TO:
JOHN DUPONT
DHL
2300 DOUBLE CREEK DR.
ROUND ROCK, TX 78664
5123888222

From:
FRONT DESK
8-ENVIRONMENTAL
1606 E. BRAZOS SUITE D
VICTORIA, TX 77901
3615728224

W AUS

LSO GROUND
END OF BUSINESS DAY DELIVERY

PRINT DATE: 3/30/2017
QUICKCODE: DHL WEIGHT: 15.00LBS
REF 1: 1D00V.0000



DHL Analytical, Inc.

Sample Receipt Checklist

Client Name B-Environmental

Date Received: 3/31/2017

Work Order Number 1703260

Received by JB

Checklist completed by: [Signature] 3/31/2017
Signature Date

Reviewed by [Initials] 3/31/2017
Initials Date

Carrier name LoneStar

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No 1.5 °C
- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH<2 acceptable upon receipt? Yes No NA LOT # 8086
- Adjusted? no Checked by [Signature]
- Water - pH>9 (S) or pH>12 (CN) acceptable upon receipt? Yes No NA LOT #
- Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

CLIENT: B-Environmental
Project: Coletto Creek Power
Lab Order: 1703260

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition and Standard Methods.

For Metals analysis by method SW6020A the dissolved Lithium or Molybdenum results were slightly higher than the total Lithium or Molybdenum results for samples MW 10, PS 3, MW 9 and MW 9A. These are within the acceptable variation limits. No further corrective actions were taken.

All method blanks, sample duplicates, laboratory spikes, and/or matrix spikes met quality assurance objectives except where noted in the following. For Total Metals analysis by method SW6020A (batch 79805) the matrix spike and matrix spike duplicate recoveries were out of control limits for three analytes. These are flagged accordingly in the enclosed QC summary report. The "S" flag denotes spike recovery was outside control limits. The LCS was within control limits for these analytes. No further corrective actions were taken.

For Mercury analysis by method SW7470A the PDS recovery was slightly below control limits. This is flagged accordingly. The serial dilution was within control limits. No further corrective actions were taken.

DHL Analytical, Inc.

Date: 07-Apr-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (53304)
Lab Order: 1703260

Client Sample ID: MW 10
Lab ID: 1703260-01
Alternate ID: S170891624
Collection Date: 03/30/17 01:45 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: CVD | | | |
| Dissolved Lithium | 0.0193 | 0.00500 | 0.0100 | | mg/L | 1 | 04/06/17 01:08 PM |
| Dissolved Molybdenum | 0.0322 | 0.00200 | 0.00500 | | mg/L | 1 | 04/06/17 01:08 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 04/04/17 11:11 AM |
| Arsenic | 0.0110 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:11 AM |
| Barium | 0.0844 | 0.00300 | 0.0100 | | mg/L | 1 | 04/04/17 11:11 AM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 11:11 AM |
| Boron | 3.74 | 0.200 | 0.600 | | mg/L | 20 | 04/05/17 11:08 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 11:11 AM |
| Calcium | 92.1 | 2.00 | 6.00 | | mg/L | 20 | 04/05/17 11:08 AM |
| Chromium | 0.00321 | 0.00200 | 0.00500 | J | mg/L | 1 | 04/04/17 11:11 AM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 04/04/17 11:11 AM |
| Lead | 0.000883 | 0.000300 | 0.00100 | J | mg/L | 1 | 04/04/17 11:11 AM |
| Lithium | 0.0179 | 0.00500 | 0.0100 | | mg/L | 1 | 04/04/17 11:11 AM |
| Magnesium | 17.9 | 0.100 | 0.300 | | mg/L | 1 | 04/04/17 11:11 AM |
| Molybdenum | 0.0342 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:11 AM |
| Potassium | 1.29 | 0.100 | 0.300 | | mg/L | 1 | 04/04/17 11:11 AM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:11 AM |
| Sodium | 169 | 2.00 | 6.00 | | mg/L | 20 | 04/05/17 11:08 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 04/04/17 11:11 AM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 04/05/17 10:40 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 307 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 04/03/17 11:41 AM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 04/03/17 11:41 AM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 04/03/17 11:41 AM |
| Alkalinity, Total (As CaCO3) | 307 | 20.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 04/03/17 11:41 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern
 J Analyte detected between MDL and RL
 MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 07-Apr-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (53304)
Lab Order: 1703260

Client Sample ID: MW 10A
Lab ID: 1703260-02
Alternate ID: S17089162A
Collection Date: 03/30/17 01:13 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: CVD | | | |
| Dissolved Lithium | 0.0218 | 0.00500 | 0.0100 | | mg/L | 1 | 04/06/17 01:10 PM |
| Dissolved Molybdenum | 0.0161 | 0.00200 | 0.00500 | | mg/L | 1 | 04/06/17 01:10 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 04/04/17 11:13 AM |
| Arsenic | 0.00503 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:13 AM |
| Barium | 0.110 | 0.00300 | 0.0100 | | mg/L | 1 | 04/04/17 11:13 AM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 11:13 AM |
| Boron | 1.53 | 0.200 | 0.600 | | mg/L | 20 | 04/05/17 11:10 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 11:13 AM |
| Calcium | 153 | 2.00 | 6.00 | | mg/L | 20 | 04/05/17 11:10 AM |
| Chromium | 0.00361 | 0.00200 | 0.00500 | J | mg/L | 1 | 04/04/17 11:13 AM |
| Cobalt | 0.00387 | 0.00300 | 0.00500 | J | mg/L | 1 | 04/04/17 11:13 AM |
| Lead | 0.000669 | 0.000300 | 0.00100 | J | mg/L | 1 | 04/04/17 11:13 AM |
| Lithium | 0.0238 | 0.00500 | 0.0100 | | mg/L | 1 | 04/04/17 11:13 AM |
| Magnesium | 29.7 | 2.00 | 6.00 | | mg/L | 20 | 04/05/17 11:10 AM |
| Molybdenum | 0.0194 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:13 AM |
| Potassium | 2.03 | 0.100 | 0.300 | | mg/L | 1 | 04/04/17 11:13 AM |
| Selenium | 0.00231 | 0.00200 | 0.00500 | J | mg/L | 1 | 04/04/17 11:13 AM |
| Sodium | 171 | 2.00 | 6.00 | | mg/L | 20 | 04/05/17 11:10 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 04/04/17 11:13 AM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 04/05/17 10:53 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 324 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 04/03/17 11:54 AM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 04/03/17 11:54 AM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 04/03/17 11:54 AM |
| Alkalinity, Total (As CaCO3) | 324 | 20.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 04/03/17 11:54 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 07-Apr-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (53304)
Lab Order: 1703260

Client Sample ID: PS 3
Lab ID: 1703260-03
Alternate ID: S17089162B
Collection Date: 03/30/17 08:36 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|---------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: CVD | | | |
| Dissolved Lithium | 0.00901 | 0.00500 | 0.0100 | J | mg/L | 1 | 04/06/17 01:12 PM |
| Dissolved Molybdenum | 0.00548 | 0.00200 | 0.00500 | | mg/L | 1 | 04/06/17 01:12 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 04/04/17 11:15 AM |
| Arsenic | 0.00819 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:15 AM |
| Barium | 0.103 | 0.00300 | 0.0100 | | mg/L | 1 | 04/04/17 11:15 AM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 11:15 AM |
| Boron | 1.57 | 0.100 | 0.300 | | mg/L | 10 | 04/05/17 11:12 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 11:15 AM |
| Calcium | 41.7 | 1.00 | 3.00 | | mg/L | 10 | 04/05/17 11:12 AM |
| Chromium | 0.00327 | 0.00200 | 0.00500 | J | mg/L | 1 | 04/04/17 11:15 AM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 04/04/17 11:15 AM |
| Lead | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 11:15 AM |
| Lithium | 0.00886 | 0.00500 | 0.0100 | J | mg/L | 1 | 04/04/17 11:15 AM |
| Magnesium | 4.27 | 0.100 | 0.300 | | mg/L | 1 | 04/04/17 11:15 AM |
| Molybdenum | 0.00569 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:15 AM |
| Potassium | 2.40 | 0.100 | 0.300 | | mg/L | 1 | 04/04/17 11:15 AM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:15 AM |
| Sodium | 67.9 | 1.00 | 3.00 | | mg/L | 10 | 04/05/17 11:12 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 04/04/17 11:15 AM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 04/05/17 10:55 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 169 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 04/03/17 12:01 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 04/03/17 12:01 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 04/03/17 12:01 PM |
| Alkalinity, Total (As CaCO3) | 169 | 20.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 04/03/17 12:01 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern
 J Analyte detected between MDL and RL
 MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 07-Apr-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (53304)
Lab Order: 1703260

Client Sample ID: MW 9
Lab ID: 1703260-04
Alternate ID: S17089162C
Collection Date: 03/30/17 09:45 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: CVD | | | |
| Dissolved Lithium | 0.00559 | 0.00500 | 0.0100 | J | mg/L | 1 | 04/06/17 01:13 PM |
| Dissolved Molybdenum | 0.0776 | 0.00200 | 0.00500 | | mg/L | 1 | 04/06/17 01:13 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 04/04/17 11:17 AM |
| Arsenic | 0.00909 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:17 AM |
| Barium | 0.121 | 0.00300 | 0.0100 | | mg/L | 1 | 04/04/17 11:17 AM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 11:17 AM |
| Boron | 3.38 | 0.100 | 0.300 | | mg/L | 10 | 04/05/17 11:14 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 11:17 AM |
| Calcium | 54.5 | 1.00 | 3.00 | | mg/L | 10 | 04/05/17 11:14 AM |
| Chromium | 0.00220 | 0.00200 | 0.00500 | J | mg/L | 1 | 04/04/17 11:17 AM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 04/04/17 11:17 AM |
| Lead | 0.00217 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 11:17 AM |
| Lithium | 0.00571 | 0.00500 | 0.0100 | J | mg/L | 1 | 04/04/17 11:17 AM |
| Magnesium | 7.71 | 0.100 | 0.300 | | mg/L | 1 | 04/04/17 11:17 AM |
| Molybdenum | 0.0747 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:17 AM |
| Potassium | 1.04 | 0.100 | 0.300 | | mg/L | 1 | 04/04/17 11:17 AM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:17 AM |
| Sodium | 63.9 | 1.00 | 3.00 | | mg/L | 10 | 04/05/17 11:14 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 04/04/17 11:17 AM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 04/05/17 10:57 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 139 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 04/03/17 12:06 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 04/03/17 12:06 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 04/03/17 12:06 PM |
| Alkalinity, Total (As CaCO3) | 139 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 04/03/17 12:06 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern
 J Analyte detected between MDL and RL
 MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 07-Apr-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (53304)
Lab Order: 1703260

Client Sample ID: MW 9A
Lab ID: 1703260-05
Alternate ID: S17089162D
Collection Date: 03/30/17 09:13 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: CVD | | | |
| Dissolved Lithium | 0.00644 | 0.00500 | 0.0100 | J | mg/L | 1 | 04/06/17 01:15 PM |
| Dissolved Molybdenum | 0.0661 | 0.00200 | 0.00500 | | mg/L | 1 | 04/06/17 01:15 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 04/04/17 11:19 AM |
| Arsenic | 0.00950 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:19 AM |
| Barium | 0.0975 | 0.00300 | 0.0100 | | mg/L | 1 | 04/04/17 11:19 AM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 11:19 AM |
| Boron | 3.36 | 0.100 | 0.300 | | mg/L | 10 | 04/05/17 11:16 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 11:19 AM |
| Calcium | 49.3 | 1.00 | 3.00 | | mg/L | 10 | 04/05/17 11:16 AM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:19 AM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 04/04/17 11:19 AM |
| Lead | 0.00113 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 11:19 AM |
| Lithium | 0.00593 | 0.00500 | 0.0100 | J | mg/L | 1 | 04/04/17 11:19 AM |
| Magnesium | 8.72 | 0.100 | 0.300 | | mg/L | 1 | 04/04/17 11:19 AM |
| Molybdenum | 0.0684 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:19 AM |
| Potassium | 0.863 | 0.100 | 0.300 | | mg/L | 1 | 04/04/17 11:19 AM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:19 AM |
| Sodium | 64.8 | 1.00 | 3.00 | | mg/L | 10 | 04/05/17 11:16 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 04/04/17 11:19 AM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 04/05/17 11:00 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 136 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 04/03/17 12:11 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 04/03/17 12:11 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 04/03/17 12:11 PM |
| Alkalinity, Total (As CaCO3) | 136 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 04/03/17 12:11 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 07-Apr-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (53304)
Lab Order: 1703260

Client Sample ID: MW 5
Lab ID: 1703260-06
Alternate ID: S17089162E
Collection Date: 03/30/17 10:58 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: CVD | | | |
| Dissolved Lithium | 0.0183 | 0.00500 | 0.0100 | | mg/L | 1 | 04/06/17 01:17 PM |
| Dissolved Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/06/17 01:17 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 04/04/17 11:21 AM |
| Arsenic | 0.00953 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:21 AM |
| Barium | 0.0748 | 0.00300 | 0.0100 | | mg/L | 1 | 04/04/17 11:21 AM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 11:21 AM |
| Boron | 0.110 | 0.0100 | 0.0300 | | mg/L | 1 | 04/05/17 01:23 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 04/04/17 11:21 AM |
| Calcium | 110 | 2.00 | 6.00 | | mg/L | 20 | 04/05/17 11:18 AM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:21 AM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 04/04/17 11:21 AM |
| Lead | 0.000362 | 0.000300 | 0.00100 | J | mg/L | 1 | 04/04/17 11:21 AM |
| Lithium | 0.0192 | 0.00500 | 0.0100 | | mg/L | 1 | 04/04/17 11:21 AM |
| Magnesium | 23.3 | 0.100 | 0.300 | | mg/L | 1 | 04/04/17 11:21 AM |
| Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:21 AM |
| Potassium | 1.58 | 0.100 | 0.300 | | mg/L | 1 | 04/04/17 11:21 AM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 04/04/17 11:21 AM |
| Sodium | 131 | 2.00 | 6.00 | | mg/L | 20 | 04/05/17 11:18 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 04/04/17 11:21 AM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 04/05/17 11:02 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 286 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 04/03/17 12:23 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 04/03/17 12:23 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 04/03/17 12:23 PM |
| Alkalinity, Total (As CaCO3) | 286 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 04/03/17 12:23 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

CLIENT: B-Environmental
Work Order: 1703260
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_170405A

The QC data in batch 79830 applies to the following samples: 1703260-01A, 1703260-02A, 1703260-03A, 1703260-04A, 1703260-05A, 1703260-06A

| | | | | | | | | | | |
|---------------------------|----------------------------------|--|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID MB-79830 | Batch ID: 79830 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: MBLK | Run ID: CETAC2_HG_170405A | Analysis Date: 4/5/2017 10:02:26 AM | Prep Date: 4/3/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | <0.0000800 | 0.000200 | | | | | | | | |

| | | | | | | | | | | |
|----------------------------|----------------------------------|--|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID LCS-79830 | Batch ID: 79830 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: LCS | Run ID: CETAC2_HG_170405A | Analysis Date: 4/5/2017 10:06:58 AM | Prep Date: 4/3/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | 0.00208 | 0.000200 | 0.00200 | 0 | 104 | 85 | 115 | | | |

| | | | | | | | | | | |
|-----------------------------|----------------------------------|--|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID LCSD-79830 | Batch ID: 79830 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: LCSD | Run ID: CETAC2_HG_170405A | Analysis Date: 4/5/2017 10:09:15 AM | Prep Date: 4/3/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | 0.00192 | 0.000200 | 0.00200 | 0 | 96.0 | 85 | 115 | 8.00 | 15 | |

| | | | | | | | | | | |
|---------------------------------|----------------------------------|--|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1703259-05A SD | Batch ID: 79830 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: SD | Run ID: CETAC2_HG_170405A | Analysis Date: 4/5/2017 10:27:21 AM | Prep Date: 4/3/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | <0.000400 | 0.00100 | 0 | 0 | | | | 0 | 10 | |

| | | | | | | | | | | |
|----------------------------------|----------------------------------|--|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1703259-05A PDS | Batch ID: 79830 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: PDS | Run ID: CETAC2_HG_170405A | Analysis Date: 4/5/2017 10:29:37 AM | Prep Date: 4/3/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | 0.00209 | 0.000200 | 0.00250 | 0 | 83.6 | 85 | 115 | | | S |

| | | | | | | | | | | |
|---------------------------------|----------------------------------|--|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1703259-05A MS | Batch ID: 79830 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: MS | Run ID: CETAC2_HG_170405A | Analysis Date: 4/5/2017 10:31:53 AM | Prep Date: 4/3/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | 0.00170 | 0.000200 | 0.00200 | 0 | 85.0 | 80 | 120 | | | |

| | | | | | | | | | | |
|----------------------------------|----------------------------------|--|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1703259-05A MSD | Batch ID: 79830 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: MSD | Run ID: CETAC2_HG_170405A | Analysis Date: 4/5/2017 10:34:09 AM | Prep Date: 4/3/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | 0.00176 | 0.000200 | 0.00200 | 0 | 88.0 | 80 | 120 | 3.47 | 15 | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1703260
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170404A

The QC data in batch 79805 applies to the following samples: 1703260-01A, 1703260-02A, 1703260-03A, 1703260-04A, 1703260-05A, 1703260-06A

| | | | |
|---------------------------|--------------------------------|--|----------------------------|
| Sample ID MB-79805 | Batch ID: 79805 | TestNo: SW6020A | Units: mg/L |
| SampType: MBLK | Run ID: ICP-MS4_170404A | Analysis Date: 4/4/2017 10:24:00 AM | Prep Date: 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|-----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | <0.000800 | 0.00250 | | | | | | | | |
| Arsenic | <0.00200 | 0.00500 | | | | | | | | |
| Barium | <0.00300 | 0.0100 | | | | | | | | |
| Beryllium | <0.000300 | 0.00100 | | | | | | | | |
| Cadmium | <0.000300 | 0.00100 | | | | | | | | |
| Calcium | <0.100 | 0.300 | | | | | | | | |
| Chromium | <0.00200 | 0.00500 | | | | | | | | |
| Cobalt | <0.00300 | 0.00500 | | | | | | | | |
| Lead | <0.000300 | 0.00100 | | | | | | | | |
| Lithium | <0.00500 | 0.0100 | | | | | | | | |
| Magnesium | <0.100 | 0.300 | | | | | | | | |
| Molybdenum | <0.00200 | 0.00500 | | | | | | | | |
| Potassium | <0.100 | 0.300 | | | | | | | | |
| Selenium | <0.00200 | 0.00500 | | | | | | | | |
| Sodium | <0.100 | 0.300 | | | | | | | | |
| Thallium | <0.000500 | 0.00150 | | | | | | | | |

| | | | |
|----------------------------|--------------------------------|--|----------------------------|
| Sample ID LCS-79805 | Batch ID: 79805 | TestNo: SW6020A | Units: mg/L |
| SampType: LCS | Run ID: ICP-MS4_170404A | Analysis Date: 4/4/2017 10:26:00 AM | Prep Date: 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.192 | 0.00250 | 0.200 | 0 | 96.1 | 80 | 120 | | | |
| Arsenic | 0.198 | 0.00500 | 0.200 | 0 | 99.0 | 80 | 120 | | | |
| Barium | 0.197 | 0.0100 | 0.200 | 0 | 98.3 | 80 | 120 | | | |
| Beryllium | 0.203 | 0.00100 | 0.200 | 0 | 102 | 80 | 120 | | | |
| Cadmium | 0.200 | 0.00100 | 0.200 | 0 | 100 | 80 | 120 | | | |
| Calcium | 4.63 | 0.300 | 5.00 | 0 | 92.6 | 80 | 120 | | | |
| Chromium | 0.205 | 0.00500 | 0.200 | 0 | 102 | 80 | 120 | | | |
| Cobalt | 0.207 | 0.00500 | 0.200 | 0 | 104 | 80 | 120 | | | |
| Lead | 0.198 | 0.00100 | 0.200 | 0 | 99.1 | 80 | 120 | | | |
| Lithium | 0.200 | 0.0100 | 0.200 | 0 | 99.9 | 80 | 120 | | | |
| Magnesium | 4.94 | 0.300 | 5.00 | 0 | 98.8 | 80 | 120 | | | |
| Molybdenum | 0.193 | 0.00500 | 0.200 | 0 | 96.4 | 80 | 120 | | | |
| Potassium | 4.88 | 0.300 | 5.00 | 0 | 97.6 | 80 | 120 | | | |
| Selenium | 0.202 | 0.00500 | 0.200 | 0 | 101 | 80 | 120 | | | |
| Sodium | 4.98 | 0.300 | 5.00 | 0 | 99.5 | 80 | 120 | | | |
| Thallium | 0.197 | 0.00150 | 0.200 | 0 | 98.5 | 80 | 120 | | | |

| | |
|---|--|
| <p>Qualifiers:</p> <p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p> | <p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAC certified</p> |
|---|--|

CLIENT: B-Environmental
Work Order: 1703260
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170404A

| | | | |
|------------------------------|--------------------------------|--|----------------------------|
| Sample ID: LCSD-79805 | Batch ID: 79805 | TestNo: SW6020A | Units: mg/L |
| SampType: LCSD | Run ID: ICP-MS4_170404A | Analysis Date: 4/4/2017 10:28:00 AM | Prep Date: 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | 0.194 | 0.00250 | 0.200 | 0 | 97.1 | 80 | 120 | 1.04 | 15 | |
| Arsenic | 0.199 | 0.00500 | 0.200 | 0 | 99.6 | 80 | 120 | 0.627 | 15 | |
| Barium | 0.200 | 0.0100 | 0.200 | 0 | 100 | 80 | 120 | 1.76 | 15 | |
| Beryllium | 0.210 | 0.00100 | 0.200 | 0 | 105 | 80 | 120 | 3.00 | 15 | |
| Cadmium | 0.203 | 0.00100 | 0.200 | 0 | 102 | 80 | 120 | 1.58 | 15 | |
| Calcium | 4.65 | 0.300 | 5.00 | 0 | 92.9 | 80 | 120 | 0.371 | 15 | |
| Chromium | 0.207 | 0.00500 | 0.200 | 0 | 103 | 80 | 120 | 0.840 | 15 | |
| Cobalt | 0.208 | 0.00500 | 0.200 | 0 | 104 | 80 | 120 | 0.154 | 15 | |
| Lead | 0.200 | 0.00100 | 0.200 | 0 | 100 | 80 | 120 | 1.06 | 15 | |
| Lithium | 0.206 | 0.0100 | 0.200 | 0 | 103 | 80 | 120 | 3.17 | 15 | |
| Magnesium | 5.00 | 0.300 | 5.00 | 0 | 100 | 80 | 120 | 1.28 | 15 | |
| Molybdenum | 0.197 | 0.00500 | 0.200 | 0 | 98.4 | 80 | 120 | 1.99 | 15 | |
| Potassium | 4.94 | 0.300 | 5.00 | 0 | 98.8 | 80 | 120 | 1.19 | 15 | |
| Selenium | 0.202 | 0.00500 | 0.200 | 0 | 101 | 80 | 120 | 0.072 | 15 | |
| Sodium | 4.99 | 0.300 | 5.00 | 0 | 99.7 | 80 | 120 | 0.204 | 15 | |
| Thallium | 0.199 | 0.00150 | 0.200 | 0 | 99.3 | 80 | 120 | 0.833 | 15 | |

| | | | |
|----------------------------------|--------------------------------|--|----------------------------|
| Sample ID: 1703259-05A SD | Batch ID: 79805 | TestNo: SW6020A | Units: mg/L |
| SampType: SD | Run ID: ICP-MS4_170404A | Analysis Date: 4/4/2017 10:34:00 AM | Prep Date: 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|----------|---------|-----------|----------|------|----------|-----------|-------|----------|------|
| Antimony | <0.00400 | 0.0125 | 0 | 0 | | | | 0 | 10 | |
| Arsenic | <0.0100 | 0.0250 | 0 | 0.00827 | | | | 0 | 10 | |
| Barium | 0.0897 | 0.0500 | 0 | 0.0900 | | | | 0.327 | 10 | |
| Beryllium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Cadmium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Chromium | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Cobalt | <0.0150 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Lead | <0.00150 | 0.00500 | 0 | 0.000996 | | | | 0 | 10 | |
| Lithium | <0.0250 | 0.0500 | 0 | 0.00981 | | | | 0 | 10 | |
| Magnesium | 9.69 | 1.50 | 0 | 9.30 | | | | 4.14 | 10 | |
| Molybdenum | <0.0100 | 0.0250 | 0 | 0.00749 | | | | 0 | 10 | |
| Potassium | 0.930 | 1.50 | 0 | 0.918 | | | | 1.27 | 10 | |
| Selenium | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Thallium | <0.00250 | 0.00750 | 0 | 0 | | | | 0 | 10 | |

| | | | |
|-----------------------------------|--------------------------------|--|----------------------------|
| Sample ID: 1703259-05A PDS | Batch ID: 79805 | TestNo: SW6020A | Units: mg/L |
| SampType: PDS | Run ID: ICP-MS4_170404A | Analysis Date: 4/4/2017 10:53:00 AM | Prep Date: 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.205 | 0.00250 | 0.200 | 0 | 102 | 80 | 120 | | | |

Qualifiers:

| | | | |
|----|---|-----|---------------------------------------|
| B | Analyte detected in the associated Method Blank | DF | Dilution Factor |
| J | Analyte detected between MDL and RL | MDL | Method Detection Limit |
| ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| RL | Reporting Limit | S | Spike Recovery outside control limits |
| J | Analyte detected between SDL and RL | N | Parameter not NELAC certified |

CLIENT: B-Environmental
 Work Order: 1703260
 Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170404A

| | | | |
|-----------------------------------|--------------------------------|--|----------------------------|
| Sample ID: 1703259-05A PDS | Batch ID: 79805 | TestNo: SW6020A | Units: mg/L |
| SampType: PDS | Run ID: ICP-MS4_170404A | Analysis Date: 4/4/2017 10:53:00 AM | Prep Date: 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|----------|------|----------|-----------|------|----------|------|
| Arsenic | 0.204 | 0.00500 | 0.200 | 0.00827 | 98.0 | 80 | 120 | | | |
| Barium | 0.292 | 0.0100 | 0.200 | 0.0900 | 101 | 80 | 120 | | | |
| Beryllium | 0.192 | 0.00100 | 0.200 | 0 | 95.9 | 80 | 120 | | | |
| Cadmium | 0.198 | 0.00100 | 0.200 | 0 | 98.9 | 80 | 120 | | | |
| Chromium | 0.203 | 0.00500 | 0.200 | 0 | 102 | 80 | 120 | | | |
| Cobalt | 0.204 | 0.00500 | 0.200 | 0 | 102 | 80 | 120 | | | |
| Lead | 0.201 | 0.00100 | 0.200 | 0.000996 | 100 | 80 | 120 | | | |
| Lithium | 0.200 | 0.0100 | 0.200 | 0.00981 | 95.3 | 80 | 120 | | | |
| Magnesium | 13.8 | 0.300 | 5.00 | 9.29 | 90.4 | 80 | 120 | | | |
| Molybdenum | 0.199 | 0.00500 | 0.200 | 0.00749 | 96.0 | 80 | 120 | | | |
| Potassium | 5.97 | 0.300 | 5.00 | 0.918 | 101 | 80 | 120 | | | |
| Selenium | 0.200 | 0.00500 | 0.200 | 0 | 99.9 | 80 | 120 | | | |
| Thallium | 0.197 | 0.00150 | 0.200 | 0 | 98.7 | 80 | 120 | | | |

| | | | |
|----------------------------------|--------------------------------|--|----------------------------|
| Sample ID: 1703259-05A MS | Batch ID: 79805 | TestNo: SW6020A | Units: mg/L |
| SampType: MS | Run ID: ICP-MS4_170404A | Analysis Date: 4/4/2017 10:55:00 AM | Prep Date: 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|----------|------|----------|-----------|------|----------|------|
| Antimony | 0.193 | 0.00250 | 0.200 | 0 | 96.4 | 80 | 120 | | | |
| Arsenic | 0.205 | 0.00500 | 0.200 | 0.00827 | 98.3 | 80 | 120 | | | |
| Barium | 0.288 | 0.0100 | 0.200 | 0.0900 | 98.9 | 80 | 120 | | | |
| Beryllium | 0.188 | 0.00100 | 0.200 | 0 | 94.1 | 80 | 120 | | | |
| Cadmium | 0.194 | 0.00100 | 0.200 | 0 | 97.2 | 80 | 120 | | | |
| Calcium | 77.2 | 0.300 | 5.00 | 73.8 | 67.5 | 80 | 120 | | | S |
| Chromium | 0.197 | 0.00500 | 0.200 | 0 | 98.5 | 80 | 120 | | | |
| Cobalt | 0.201 | 0.00500 | 0.200 | 0 | 101 | 80 | 120 | | | |
| Lead | 0.201 | 0.00100 | 0.200 | 0.000996 | 100 | 80 | 120 | | | |
| Lithium | 0.197 | 0.0100 | 0.200 | 0.00981 | 93.6 | 80 | 120 | | | |
| Magnesium | 13.9 | 0.300 | 5.00 | 9.29 | 91.6 | 80 | 120 | | | |
| Molybdenum | 0.199 | 0.00500 | 0.200 | 0.00749 | 95.9 | 80 | 120 | | | |
| Potassium | 5.84 | 0.300 | 5.00 | 0.918 | 98.5 | 80 | 120 | | | |
| Selenium | 0.203 | 0.00500 | 0.200 | 0 | 101 | 80 | 120 | | | |
| Sodium | 72.8 | 0.300 | 5.00 | 69.6 | 63.8 | 80 | 120 | | | S |
| Thallium | 0.199 | 0.00150 | 0.200 | 0 | 99.5 | 80 | 120 | | | |

| | | | |
|-----------------------------------|--------------------------------|--|----------------------------|
| Sample ID: 1703259-05A MSD | Batch ID: 79805 | TestNo: SW6020A | Units: mg/L |
| SampType: MSD | Run ID: ICP-MS4_170404A | Analysis Date: 4/4/2017 10:57:00 AM | Prep Date: 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|---------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | 0.194 | 0.00250 | 0.200 | 0 | 97.2 | 80 | 120 | 0.870 | 15 | |
| Arsenic | 0.205 | 0.00500 | 0.200 | 0.00827 | 98.3 | 80 | 120 | 0.030 | 15 | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1703260
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170404A

| | | | |
|-----------------------------------|--------------------------------|--|----------------------------|
| Sample ID: 1703259-05A MSD | Batch ID: 79805 | TestNo: SW6020A | Units: mg/L |
| SampType: MSD | Run ID: ICP-MS4_170404A | Analysis Date: 4/4/2017 10:57:00 AM | Prep Date: 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|----------|------|----------|-----------|-------|----------|------|
| Barium | 0.292 | 0.0100 | 0.200 | 0.0900 | 101 | 80 | 120 | 1.28 | 15 | |
| Beryllium | 0.189 | 0.00100 | 0.200 | 0 | 94.4 | 80 | 120 | 0.266 | 15 | |
| Cadmium | 0.196 | 0.00100 | 0.200 | 0 | 97.8 | 80 | 120 | 0.688 | 15 | |
| Calcium | 77.7 | 0.300 | 5.00 | 73.8 | 78.1 | 80 | 120 | 0.682 | 15 | S |
| Chromium | 0.197 | 0.00500 | 0.200 | 0 | 98.6 | 80 | 120 | 0.111 | 15 | |
| Cobalt | 0.201 | 0.00500 | 0.200 | 0 | 100 | 80 | 120 | 0.113 | 15 | |
| Lead | 0.203 | 0.00100 | 0.200 | 0.000996 | 101 | 80 | 120 | 0.632 | 15 | |
| Lithium | 0.195 | 0.0100 | 0.200 | 0.00981 | 92.8 | 80 | 120 | 0.755 | 15 | |
| Magnesium | 13.9 | 0.300 | 5.00 | 9.29 | 91.7 | 80 | 120 | 0.042 | 15 | |
| Molybdenum | 0.201 | 0.00500 | 0.200 | 0.00749 | 96.7 | 80 | 120 | 0.821 | 15 | |
| Potassium | 5.82 | 0.300 | 5.00 | 0.918 | 98.0 | 80 | 120 | 0.448 | 15 | |
| Selenium | 0.203 | 0.00500 | 0.200 | 0 | 101 | 80 | 120 | 0.150 | 15 | |
| Sodium | 72.5 | 0.300 | 5.00 | 69.6 | 56.5 | 80 | 120 | 0.499 | 15 | S |
| Thallium | 0.200 | 0.00150 | 0.200 | 0 | 100 | 80 | 120 | 0.520 | 15 | |

Qualifiers:
 B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL

DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1703260
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170405A

The QC data in batch 79805 applies to the following samples: 1703260-01A, 1703260-02A, 1703260-03A, 1703260-04A, 1703260-05A, 1703260-06A

| | | | | | | | | | | |
|---------------------------|--------------------------------|--|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID MB-79805 | Batch ID: 79805 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: MBLK | Run ID: ICP-MS4_170405A | Analysis Date: 4/5/2017 10:24:00 AM | Prep Date: 4/3/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | <0.0100 | 0.0300 | | | | | | | | |

| | | | | | | | | | | |
|----------------------------|--------------------------------|--|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID LCS-79805 | Batch ID: 79805 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: LCS | Run ID: ICP-MS4_170405A | Analysis Date: 4/5/2017 10:26:00 AM | Prep Date: 4/3/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 0.205 | 0.0300 | 0.200 | 0 | 102 | 80 | 120 | | | |

| | | | | | | | | | | |
|-----------------------------|--------------------------------|--|----------------------------|---------|------|----------|-----------|-------|----------|------|
| Sample ID LCSD-79805 | Batch ID: 79805 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: LCSD | Run ID: ICP-MS4_170405A | Analysis Date: 4/5/2017 10:28:00 AM | Prep Date: 4/3/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 0.206 | 0.0300 | 0.200 | 0 | 103 | 80 | 120 | 0.589 | 15 | |

| | | | | | | | | | | |
|---------------------------------|--------------------------------|--|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1703259-05A SD | Batch ID: 79805 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: SD | Run ID: ICP-MS4_170405A | Analysis Date: 4/5/2017 10:34:00 AM | Prep Date: 4/3/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 1.73 | 1.50 | 0 | 1.67 | | | | 3.63 | 10 | |
| Calcium | 75.3 | 15.0 | 0 | 73.9 | | | | 1.92 | 10 | |
| Sodium | 74.3 | 15.0 | 0 | 71.6 | | | | 3.69 | 10 | |

| | | | | | | | | | | |
|----------------------------------|--------------------------------|--|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1703259-05A PDS | Batch ID: 79805 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: PDS | Run ID: ICP-MS4_170405A | Analysis Date: 4/5/2017 10:54:00 AM | Prep Date: 4/3/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 3.88 | 0.300 | 2.00 | 1.67 | 110 | 80 | 120 | | | |
| Calcium | 124 | 3.00 | 50.0 | 73.9 | 100 | 80 | 120 | | | |
| Sodium | 127 | 3.00 | 50.0 | 71.6 | 111 | 80 | 120 | | | |

| | | | | | | | | | | |
|---------------------------------|--------------------------------|--|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1703259-05A MS | Batch ID: 79805 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: MS | Run ID: ICP-MS4_170405A | Analysis Date: 4/5/2017 10:56:00 AM | Prep Date: 4/3/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 1.94 | 0.300 | 0.200 | 1.67 | 137 | 80 | 120 | | | S |

| | | | | | | | | | | |
|----------------------------------|--------------------------------|--|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1703259-05A MSD | Batch ID: 79805 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: MSD | Run ID: ICP-MS4_170405A | Analysis Date: 4/5/2017 10:58:00 AM | Prep Date: 4/3/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
J Analyte detected between MDL and RL MDL Method Detection Limit
ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
RL Reporting Limit S Spike Recovery outside control limits
J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1703260
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170405A

| Sample ID | 1703259-05A MSD | Batch ID: | 79805 | TestNo: | SW6020A | Units: | mg/L | | | |
|-----------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|------|----------|------|
| SampType: | MSD | Run ID: | ICP-MS4_170405A | Analysis Date: | 4/5/2017 10:58:00 AM | Prep Date: | 4/3/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 1.91 | 0.300 | 0.200 | 1.67 | 123 | 80 | 120 | 1.50 | 15 | S |

Qualifiers:

- B Analyte detected in the associated Method Blank
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- J Analyte detected between SDL and RL

- DF Dilution Factor
- MDL Method Detection Limit
- R RPD outside accepted control limits
- S Spike Recovery outside control limits
- N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1703260
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170406B

The QC data in batch 79865 applies to the following samples: 1703260-01B, 1703260-02B, 1703260-03B, 1703260-04B, 1703260-05B, 1703260-06B

| | | | | | | | | | | |
|---------------------------|--------------------------------|--|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID MB-79865 | Batch ID: 79865 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: MBLK | Run ID: ICP-MS5_170406B | Analysis Date: 4/6/2017 12:30:00 PM | Prep Date: 4/5/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | <0.00500 | 0.0100 | | | | | | | | |
| Molybdenum | <0.00200 | 0.00500 | | | | | | | | |

| | | | | | | | | | | |
|----------------------------|--------------------------------|--|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID LCS-79865 | Batch ID: 79865 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: LCS | Run ID: ICP-MS5_170406B | Analysis Date: 4/6/2017 12:31:00 PM | Prep Date: 4/5/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.200 | 0.0100 | 0.200 | 0 | 100 | 80 | 120 | | | |
| Molybdenum | 0.190 | 0.00500 | 0.200 | 0 | 94.8 | 80 | 120 | | | |

| | | | | | | | | | | |
|-----------------------------|--------------------------------|--|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID LCSD-79865 | Batch ID: 79865 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: LCSD | Run ID: ICP-MS5_170406B | Analysis Date: 4/6/2017 12:33:00 PM | Prep Date: 4/5/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.206 | 0.0100 | 0.200 | 0 | 103 | 80 | 120 | 3.04 | 15 | |
| Molybdenum | 0.193 | 0.00500 | 0.200 | 0 | 96.5 | 80 | 120 | 1.82 | 15 | |

| | | | | | | | | | | |
|---------------------------------|--------------------------------|--|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1703259-05B SD | Batch ID: 79865 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: SD | Run ID: ICP-MS5_170406B | Analysis Date: 4/6/2017 12:38:00 PM | Prep Date: 4/5/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | <0.0250 | 0.0500 | 0 | 0.00925 | | | | 0 | 10 | |
| Molybdenum | <0.0100 | 0.0250 | 0 | 0.00693 | | | | 0 | 10 | |

| | | | | | | | | | | |
|----------------------------------|--------------------------------|--|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1703259-05B PDS | Batch ID: 79865 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: PDS | Run ID: ICP-MS5_170406B | Analysis Date: 4/6/2017 12:56:00 PM | Prep Date: 4/5/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.202 | 0.0100 | 0.200 | 0.00925 | 96.4 | 80 | 120 | | | |
| Molybdenum | 0.193 | 0.00500 | 0.200 | 0.00693 | 92.9 | 80 | 120 | | | |

| | | | | | | | | | | |
|---------------------------------|--------------------------------|--|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1703259-05B MS | Batch ID: 79865 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: MS | Run ID: ICP-MS5_170406B | Analysis Date: 4/6/2017 12:58:00 PM | Prep Date: 4/5/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.205 | 0.0100 | 0.200 | 0.00925 | 97.8 | 80 | 120 | | | |
| Molybdenum | 0.198 | 0.00500 | 0.200 | 0.00693 | 95.4 | 80 | 120 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL
DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1703260
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170406B

| Sample ID 1703259-05B MSD | Batch ID: 79865 | TestNo: SW6020A | Units: mg/L | | | | | | | |
|----------------------------------|--------------------------------|--|----------------------------|---------|------|----------|-----------|-------|----------|------|
| SampType: MSD | Run ID: ICP-MS5_170406B | Analysis Date: 4/6/2017 12:59:00 PM | Prep Date: 4/5/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.197 | 0.0100 | 0.200 | 0.00925 | 93.8 | 80 | 120 | 3.99 | 15 | |
| Molybdenum | 0.198 | 0.00500 | 0.200 | 0.00693 | 95.3 | 80 | 120 | 0.079 | 15 | |

Qualifiers:

- B Analyte detected in the associated Method Blank
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- J Analyte detected between SDL and RL

- DF Dilution Factor
- MDL Method Detection Limit
- R RPD outside accepted control limits
- S Spike Recovery outside control limits
- N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1703260
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_170403A

The QC data in batch 79803 applies to the following samples: 1703260-01C, 1703260-02C, 1703260-03C, 1703260-04C, 1703260-05C, 1703260-06C

| | | | |
|---------------------------|---------------------------------|---|------------------------------|
| Sample ID MB-79803 | Batch ID: 79803 | TestNo: M2320 B | Units: mg/L @ pH 4.34 |
| SampType: MBLK | Run ID: TITRATOR_170403A | Analysis Date: 4/3/2017 9:09:00 AM | Prep Date: 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Total (As CaCO3) | <20.0 | 20.0 | | | | | | | | |

| | | | |
|----------------------------|---------------------------------|---|------------------------------|
| Sample ID LCS-79803 | Batch ID: 79803 | TestNo: M2320 B | Units: mg/L @ pH 4.22 |
| SampType: LCS | Run ID: TITRATOR_170403A | Analysis Date: 4/3/2017 9:13:00 AM | Prep Date: 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Total (As CaCO3) | 50.2 | 20.0 | 50.00 | 0 | 100 | 74 | 129 | | | |

| | | | |
|----------------------------------|---------------------------------|--|-----------------------------|
| Sample ID 1703258-01C-DUP | Batch ID: 79803 | TestNo: M2320 B | Units: mg/L @ pH 4.5 |
| SampType: DUP | Run ID: TITRATOR_170403A | Analysis Date: 4/3/2017 10:04:00 AM | Prep Date: 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | 111 | 20.0 | 0 | 113.7 | | | | 2.76 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | 111 | 20.0 | 0 | 113.7 | | | | 2.76 | 20 | |

| | | | |
|----------------------------------|---------------------------------|--|------------------------------|
| Sample ID 1703259-05C-DUP | Batch ID: 79803 | TestNo: M2320 B | Units: mg/L @ pH 4.52 |
| SampType: DUP | Run ID: TITRATOR_170403A | Analysis Date: 4/3/2017 11:06:00 AM | Prep Date: 4/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | 180 | 20.0 | 0 | 181.2 | | | | 0.720 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | 180 | 20.0 | 0 | 181.2 | | | | 0.720 | 20 | |

| | |
|---|--|
| <p>Qualifiers:</p> <p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p> | <p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAC certified</p> |
|---|--|



Sample Summary Report

B Environmental, LLC.
1606 E Brazos Suite D
Victoria, TX 77901

Approved By: Kevin C Baros:

| | | | | | | | | | |
|---------------------|-------------------|--|--------------|-------------------|--------------------------|--------------|-------------|----------------|--------------|
| Sample ID: | S170871632 | Client ID: | Blank | Sampler: | Client | Type: | Grab | | |
| | Client: | Coletto Creek Power - R Coleman | | Status: | Normal | | | Matrix: | Water |
| | Study: | Water | | Batch No: | 53213 | | | | |
| | Project: | Coletto Creek - CCR | | Sampled: | 3/28/2017 3:26 PM | | | | |
| | Location: | Blank | | Completed: | | | | | |
| | Notes: | | | | | | | | |
| Conclusions: | | | | | | | | | |

| Analyte | Date | Time | Result | Units | LOQ | S/ Out | Laboratory |
|-------------------------|-----------|---------|--------|-------|------|-------------------------------------|-------------------------------|
| .- Chloride, IC | 3/30/2017 | 2:24 am | < 1 | mg/L | 1 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Alkalinity, Carbonate | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Alkalinity, Total | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Fluoride, IC | 3/30/2017 | 2:24 am | < 0.25 | mg/L | 0.25 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 3/28/2017 | 5:20 pm | 5.47 | SU | 2 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 3/31/2017 | 5:00 pm | < 25 | mg/L | 10 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | | | | # | 1 | <input checked="" type="checkbox"/> | |
| Sulfate, IC | 3/30/2017 | 2:24 am | < 1 | mg/L | 1 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | | | | # | 1 | <input checked="" type="checkbox"/> | |

Sample ID: S170871635 **Client ID:** MW 8 **Sampler:** Client **Type:** Grab
Client: Coletto Creek Power - R Coleman **Status:** Normal **Matrix:** Water
Study: Water **Batch No:** 53213
Project: Coletto Creek - CCR **Sampled:** 3/28/2017 3:06 PM
Location: MW #8 **Completed:**
Notes:

Conclusions:

| Analyte | Date | Time | Result | Units | LOQ | S/ Out | Laboratory |
|-------------------------|-----------|---------|--------|-------|------|-------------------------------------|-------------------------------|
| .- Chloride, IC | 3/29/2017 | 3:36 pm | 79 | mg/L | 1 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Alkalinity, Carbonate | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Alkalinity, Total | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Fluoride, IC | 3/29/2017 | 3:36 pm | 0.49 | mg/L | 0.25 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 3/28/2017 | 5:20 pm | 6.94 | SU | 2 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 3/31/2017 | 5:00 pm | 626 | mg/L | 10 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | | | | # | 1 | <input checked="" type="checkbox"/> | |
| Sulfate, IC | 3/29/2017 | 3:36 pm | 76 | mg/L | 1 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | | | | # | 1 | <input checked="" type="checkbox"/> | |

| | | | |
|--|------------------------------------|------------------------|-------------------|
| Sample ID: S170871637 | Client ID: Dup | Sampler: Client | Type: Grab |
| Client: Coletto Creek Power - R Coleman | Status: Normal | Matrix: Water | |
| Study: Water | Batch No: 53213 | | |
| Project: Coletto Creek - CCR | Sampled: 3/28/2017 12:00 AM | | |
| Location: Dup | Completed: | | |
| Notes: | | | |
| | | | |
| Conclusions: | | | |

| Analyte | Date | Time | Result | Units | LOQ | S/ Out | Laboratory |
|-------------------------|-----------|---------|--------|-------|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 3/29/2017 | 8:03 pm | 79 | mg/L | 1 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Alkalinity, Carbonate | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Alkalinity, Total | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Fluoride, IC | 3/29/2017 | 8:03 pm | 0.48 | mg/L | 0.25 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 3/28/2017 | 5:20 pm | 6.93 | SU | 2 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 3/31/2017 | 5:00 pm | 628 | mg/L | 10 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | | | | # | 1 | <input checked="" type="checkbox"/> | |
| Sulfate, IC | 3/29/2017 | 8:03 pm | 76 | mg/L | 1 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | | | | # | 1 | <input checked="" type="checkbox"/> | |

| | | | |
|--|------------------------------------|------------------------|----------------------|
| Sample ID: S170871638 | Client ID: MW 4 | Sampler: Client | Type: Grab |
| Client: Coletto Creek Power - R Coleman | Status: Normal | Batch No: 53213 | Matrix: Water |
| Study: Water | Sampled: 3/28/2017 11:27 AM | Completed: | |
| Project: Coletto Creek - CCR | | | |
| Location: MW #4 | | | |
| Notes: | | | |
| Conclusions: | | | |

| Analyte | Date | Time | Result | Units | LOQ | S/ Out | Laboratory |
|-------------------------|-----------|---------|--------|-------|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 3/30/2017 | 1:07 am | 102 | mg/L | 1 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Alkalinity, Carbonate | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Alkalinity, Total | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Fluoride, IC | 3/30/2017 | 1:07 am | 0.61 | mg/L | 0.25 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 3/28/2017 | 5:20 pm | 6.96 | SU | 2 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 3/31/2017 | 5:00 pm | 794 | mg/L | 10 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | | | | # | 1 | <input checked="" type="checkbox"/> | |
| Sulfate, IC | 3/30/2017 | 1:07 am | 157 | mg/L | 1 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | | | | # | 1 | <input checked="" type="checkbox"/> | |

APPENDIX E-Revision 2 October 10, 2023

Sample ID: S17087163A **Client ID:** BV 15 **Sampler:** Client **Type:** Grab
Client: Coletto Creek Power - R Coleman **Status:** Normal **Matrix:** Water
Study: Water **Batch No:** 53213
Project: Coletto Creek - CCR **Sampled:** 3/28/2017 1:08 PM
Location: BV 15 **Completed:**
Notes:

Conclusions:

| Analyte | Date | Time | Result | Units | LOQ | S/ Out | Laboratory |
|-------------------------|-----------|---------|--------|-------|------|-------------------------------------|-------------------------------|
| .- Chloride, IC | 3/29/2017 | 6:08 pm | 64 | mg/L | 1 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Alkalinity, Carbonate | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Alkalinity, Total | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Fluoride, IC | 3/29/2017 | 6:08 pm | 0.82 | mg/L | 0.25 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 3/28/2017 | 5:20 pm | 7.31 | SU | 2 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 3/31/2017 | 5:00 pm | 550 | mg/L | 10 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | | | | # | 1 | <input checked="" type="checkbox"/> | |
| Sulfate, IC | 3/29/2017 | 6:08 pm | 96 | mg/L | 1 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | | | | # | 1 | <input checked="" type="checkbox"/> | |

Sample ID: **S17087163B** **Client ID:** **BV 21** **Sampler:** **Client** **Type:** **Grab**
Client: **Coletto Creek Power - R Coleman** **Status:** **Normal** **Matrix:** **Water**
Study: **Water** **Batch No:** **53213**
Project: **Coletto Creek - CCR** **Sampled:** **3/28/2017 1:48 PM**
Location: **BV 21** **Completed:**
Notes:

Conclusions:

| Analyte | Date | Time | Result | Units | LOQ | S/ Out | Laboratory |
|-------------------------|-----------|---------|--------|-------|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 3/29/2017 | 9:57 pm | 36 | mg/L | 1 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Alkalinity, Carbonate | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Alkalinity, Total | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Fluoride, IC | 3/29/2017 | 9:57 pm | 0.61 | mg/L | 0.25 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 3/28/2017 | 5:20 pm | 7.07 | SU | 2 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 3/31/2017 | 5:00 pm | 490 | mg/L | 10 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | | | | # | 1 | <input checked="" type="checkbox"/> | |
| Sulfate, IC | 3/29/2017 | 9:57 pm | 69 | mg/L | 1 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | | | | # | 1 | <input checked="" type="checkbox"/> | |

| | | | |
|--|-----------------------------------|------------------------|----------------------|
| Sample ID: S17087163C | Client ID: BV 22 | Sampler: Client | Type: Grab |
| Client: Coletto Creek Power - R Coleman | Status: Normal | Batch No: 53213 | Matrix: Water |
| Study: Water | Sampled: 3/28/2017 2:31 PM | Completed: | |
| Project: Coletto Creek - CCR | | | |
| Location: BV 22 | | | |
| Notes: | | | |
| Conclusions: | | | |

| Analyte | Date | Time | Result | Units | LOQ | S/ Out | Laboratory |
|-------------------------|-----------|---------|--------|-------|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 3/30/2017 | 4:18 am | 29 | mg/L | 1 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Alkalinity, Carbonate | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Alkalinity, Total | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Fluoride, IC | 3/30/2017 | 4:18 am | 0.52 | mg/L | 0.25 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 3/28/2017 | 5:20 pm | 7.15 | SU | 2 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 3/31/2017 | 5:00 pm | 452 | mg/L | 10 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | | | | # | 1 | <input checked="" type="checkbox"/> | |
| Sulfate, IC | 3/30/2017 | 4:18 am | 48 | mg/L | 1 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | | | | # | 1 | <input checked="" type="checkbox"/> | |

| | | | |
|---|-----------------------------------|------------------------|-------------------|
| Sample ID: S170881623 | Client ID: BV-19 | Sampler: Client | Type: Grab |
| Client: Coleta Creek Power - R Coleman | Status: Normal | Matrix: Water | |
| Study: Water | Batch No: 53245 | | |
| Project: Coleta Creek - CCR | Sampled: 3/29/2017 9:56 AM | | |
| Location: BV-19 | Completed: | | |
| Notes: | | | |
| | | | |
| Conclusions: | | | |

| Analyte | Date | Time | Result | Units | LOQ | S/ Out | Laboratory |
|-------------------------|-----------|---------|--------|-------|------|-------------------------------------|-------------------------------|
| .- Chloride, IC | 3/30/2017 | 9:18 pm | 94 | mg/L | 1 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Alkalinity, Carbonate | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Alkalinity, Total | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Fluoride, IC | 3/30/2017 | 9:18 pm | 0.53 | mg/L | 0.25 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 3/29/2017 | 4:45 pm | 7.14 | SU | 2 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 4/3/2017 | 4:00 pm | 546 | mg/L | 10 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | | | | # | 1 | <input checked="" type="checkbox"/> | |
| Sulfate, IC | 3/30/2017 | 9:18 pm | 43 | mg/L | 1 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | | | | # | 1 | <input checked="" type="checkbox"/> | |

| | | | |
|--|------------------------------------|------------------------|----------------------|
| Sample ID: S17088162A | Client ID: BV-10 | Sampler: Client | Type: Grab |
| Client: Coletto Creek Power - R Coleman | Status: Normal | Batch No: 53245 | Matrix: Water |
| Study: Water | Sampled: 3/29/2017 10:38 AM | Completed: | |
| Project: Coletto Creek - CCR | | | |
| Location: BV-10 | | | |
| Notes: | | | |
| Conclusions: | | | |

| Analyte | Date | Time | Result | Units | LOQ | S/ Out | Laboratory |
|-------------------------|-----------|----------|--------|-------|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 3/30/2017 | 11:50 pm | 86 | mg/L | 1 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Alkalinity, Carbonate | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Alkalinity, Total | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Fluoride, IC | 3/30/2017 | 11:50 pm | 0.81 | mg/L | 0.25 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 3/29/2017 | 4:45 pm | 7.73 | SU | 2 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 4/3/2017 | 4:00 pm | 618 | mg/L | 10 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | | | | # | 1 | <input checked="" type="checkbox"/> | |
| Sulfate, IC | 3/30/2017 | 11:50 pm | 86 | mg/L | 1 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | | | | # | 1 | <input checked="" type="checkbox"/> | |

| | | | |
|--|------------------------------------|------------------------|----------------------|
| Sample ID: S17088162B | Client ID: BV-5 | Sampler: Client | Type: Grab |
| Client: Coletto Creek Power - R Coleman | Status: Normal | Batch No: 53245 | Matrix: Water |
| Study: Water | Sampled: 3/29/2017 12:45 PM | Completed: | |
| Project: Coletto Creek - CCR | | | |
| Location: BV-5 | | | |
| Notes: | | | |
| Conclusions: | | | |

| Analyte | Date | Time | Result | Units | LOQ | S/ Out | Laboratory |
|-------------------------|-----------|----------|--------|-------|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 3/30/2017 | 11:12 pm | 118 | mg/L | 1 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Alkalinity, Carbonate | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Alkalinity, Total | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Fluoride, IC | 3/30/2017 | 11:12 pm | 0.54 | mg/L | 0.25 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 3/29/2017 | 4:45 pm | 7.19 | SU | 2 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 4/3/2017 | 4:00 pm | 860 | mg/L | 10 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | | | | # | 1 | <input checked="" type="checkbox"/> | |
| Sulfate, IC | 3/30/2017 | 11:12 pm | 147 | mg/L | 1 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | | | | # | 1 | <input checked="" type="checkbox"/> | |

| | | | |
|--|-----------------------------------|------------------------|----------------------|
| Sample ID: S17088162C | Client ID: BV-1 | Sampler: Client | Type: Grab |
| Client: Coletto Creek Power - R Coleman | Status: Normal | Batch No: 53245 | Matrix: Water |
| Study: Water | Sampled: 3/29/2017 1:21 PM | Completed: | |
| Project: Coletto Creek - CCR | | | |
| Location: BV-1 | | | |
| Notes: | | | |
| Conclusions: | | | |

| Analyte | Date | Time | Result | Units | LOQ | S/ Out | Laboratory |
|-------------------------|-----------|---------|--------|-------|------|-------------------------------------|-------------------------------|
| .- Chloride, IC | 3/30/2017 | 6:45 pm | 138 | mg/L | 1 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Alkalinity, Carbonate | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Alkalinity, Total | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Fluoride, IC | 3/30/2017 | 6:45 pm | 0.8 | mg/L | 0.25 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 3/29/2017 | 4:45 pm | 7.53 | SU | 2 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 4/3/2017 | 4:00 pm | 956 | mg/L | 10 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | | | | # | 1 | <input checked="" type="checkbox"/> | |
| Sulfate, IC | 3/30/2017 | 6:45 pm | 185 | mg/L | 1 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | | | | # | 1 | <input checked="" type="checkbox"/> | |

| | | | |
|--|-----------------------------------|------------------------|----------------------|
| Sample ID: S17088162D | Client ID: MW-6 | Sampler: Client | Type: Grab |
| Client: Coletto Creek Power - R Coleman | Status: Normal | Batch No: 53245 | Matrix: Water |
| Study: Water | Sampled: 3/29/2017 2:16 PM | Completed: | |
| Project: Coletto Creek - CCR | | | |
| Location: MW #6 | | | |
| Notes: | | | |
| Conclusions: | | | |

| Analyte | Date | Time | Result | Units | LOQ | S/ Out | Laboratory |
|-------------------------|-----------|---------|--------|-------|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 3/30/2017 | 4:51 pm | 69 | mg/L | 1 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | | | | mg/L | 10 | <input type="checkbox"/> | |
| Alkalinity, Carbonate | | | | mg/L | 10 | <input type="checkbox"/> | |
| Alkalinity, Total | | | | mg/L | 10 | <input type="checkbox"/> | |
| Fluoride, IC | 3/30/2017 | 4:51 pm | 0.38 | mg/L | 0.25 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 3/29/2017 | 4:45 pm | 7.41 | SU | 2 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 4/3/2017 | 4:00 pm | 510 | mg/L | 10 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | | | | # | 1 | <input checked="" type="checkbox"/> | |
| Sulfate, IC | 3/30/2017 | 4:51 pm | 99 | mg/L | 1 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | | | | # | 1 | <input checked="" type="checkbox"/> | |

| | | | |
|--|-----------------------------------|------------------------|----------------------|
| Sample ID: S17088162E | Client ID: MW-7 | Sampler: Client | Type: Grab |
| Client: Coletto Creek Power - R Coleman | Status: Normal | Batch No: 53245 | Matrix: Water |
| Study: Water | Sampled: 3/29/2017 3:01 PM | Completed: | |
| Project: Coletto Creek - CCR | | | |
| Location: MW #7 | | | |
| Notes: | | | |
| Conclusions: | | | |

| Analyte | Date | Time | Result | Units | LOQ | S/ Out | Laboratory |
|-------------------------|-----------|---------|--------|-------|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 3/31/2017 | 1:44 am | 91 | mg/L | 1 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Alkalinity, Carbonate | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Alkalinity, Total | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Fluoride, IC | 3/31/2017 | 1:44 am | 0.6 | mg/L | 0.25 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 3/29/2017 | 4:45 pm | 7.42 | SU | 2 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 4/3/2017 | 4:00 pm | 560 | mg/L | 10 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | | | | # | 1 | <input checked="" type="checkbox"/> | |
| Sulfate, IC | 3/31/2017 | 1:44 am | 75 | mg/L | 1 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | | | | # | 1 | <input checked="" type="checkbox"/> | |

| | | | |
|--|------------------------------------|------------------------|----------------------|
| Sample ID: S17088162F | Client ID: Dup | Sampler: Client | Type: Grab |
| Client: Coletto Creek Power - R Coleman | Status: Normal | Batch No: 53245 | Matrix: Water |
| Study: Water | Sampled: 3/29/2017 12:00 AM | Completed: | |
| Project: Coletto Creek - CCR | | | |
| Location: Dup | | | |
| Notes: | | | |
| Conclusions: | | | |

| Analyte | Date | Time | Result | Units | LOQ | S/ Out | Laboratory |
|-------------------------|-----------|---------|--------|-------|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 3/31/2017 | 2:22 am | 91 | mg/L | 1 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Alkalinity, Carbonate | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Alkalinity, Total | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Fluoride, IC | 3/31/2017 | 2:22 am | 0.59 | mg/L | 0.25 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 3/29/2017 | 4:45 pm | 7.37 | SU | 2 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 4/3/2017 | 4:00 pm | 568 | mg/L | 10 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | | | | # | 1 | <input checked="" type="checkbox"/> | |
| Sulfate, IC | 3/31/2017 | 2:22 am | 75 | mg/L | 1 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | | | | # | 1 | <input checked="" type="checkbox"/> | |

| | | | |
|--|-----------------------------------|------------------------|----------------------|
| Sample ID: S170891624 | Client ID: MW 10 | Sampler: Client | Type: Grab |
| Client: Coletto Creek Power - R Coleman | Status: Normal | Batch No: 53304 | Matrix: Water |
| Study: Water | Sampled: 3/30/2017 1:45 PM | Completed: | |
| Project: Coletto Creek - CCR | | | |
| Location: MW #10 | | | |
| Notes: | | | |
| Conclusions: | | | |

| Analyte | Date | Time | Result | Units | LOQ | S/ Out | Laboratory |
|-------------------------|-----------|---------|--------|-------|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 3/31/2017 | 3:39 am | 151 | mg/L | 1 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Alkalinity, Carbonate | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Alkalinity, Total | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Fluoride, IC | 3/31/2017 | 3:39 am | 0.54 | mg/L | 0.25 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 3/30/2017 | 4:55 pm | 7.28 | SU | 2 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 4/3/2017 | 4:00 pm | 804 | mg/L | 10 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | | | | # | 1 | <input checked="" type="checkbox"/> | |
| Sulfate, IC | 3/31/2017 | 3:39 am | 130 | mg/L | 1 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | | | | # | 1 | <input checked="" type="checkbox"/> | |

| | | | |
|--|-----------------------------------|------------------------|-------------------|
| Sample ID: S17089162A | Client ID: MW 10A | Sampler: Client | Type: Grab |
| Client: Coletto Creek Power - R Coleman | Status: Normal | Matrix: Water | |
| Study: Water | Batch No: 53304 | | |
| Project: Coletto Creek - CCR | Sampled: 3/30/2017 1:13 PM | | |
| Location: MW 10A | Completed: | | |
| Notes: | | | |
| Conclusions: | | | |

| Analyte | Date | Time | Result | Units | LOQ | S/ Out | Laboratory |
|-------------------------|-----------|---------|--------|-------|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 3/31/2017 | 6:49 am | 332 | mg/L | 1 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Alkalinity, Carbonate | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Alkalinity, Total | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Fluoride, IC | 3/31/2017 | 6:49 am | 0.47 | mg/L | 0.25 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 3/30/2017 | 4:55 pm | 7.03 | SU | 2 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 4/5/2017 | 9:00 am | 1088 | mg/L | 10 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | | | | # | 1 | <input checked="" type="checkbox"/> | |
| Sulfate, IC | 3/31/2017 | 6:49 am | 83 | mg/L | 1 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | | | | # | 1 | <input checked="" type="checkbox"/> | |

| | | | |
|--|-----------------------------------|------------------------|----------------------|
| Sample ID: S17089162B | Client ID: PS 3 | Sampler: Client | Type: Grab |
| Client: Coletto Creek Power - R Coleman | Status: Normal | Batch No: 53304 | Matrix: Water |
| Study: Water | Sampled: 3/30/2017 8:36 AM | Completed: | |
| Project: Coletto Creek - CCR | | | |
| Location: PS 3 | | | |
| Notes: | | | |
| Conclusions: | | | |

| Analyte | Date | Time | Result | Units | LOQ | S/ Out | Laboratory |
|-------------------------|-----------|---------|--------|-------|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 3/31/2017 | 5:33 am | 48 | mg/L | 1 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Alkalinity, Carbonate | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Alkalinity, Total | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Fluoride, IC | 3/31/2017 | 5:33 am | 0.89 | mg/L | 0.25 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 3/30/2017 | 4:55 pm | 7.64 | SU | 2 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 4/5/2017 | 9:00 am | 352 | mg/L | 10 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | | | | # | 1 | <input checked="" type="checkbox"/> | |
| Sulfate, IC | 3/31/2017 | 5:33 am | 32 | mg/L | 1 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | | | | # | 1 | <input checked="" type="checkbox"/> | |

Sample ID: S17089162C **Client ID:** MW 9 **Sampler:** Client **Type:** Grab
Client: Coleta Creek Power - R Coleman **Status:** Normal **Matrix:** Water
Study: Water **Batch No:** 53304
Project: Coleta Creek - CCR **Sampled:** 3/30/2017 9:45 AM
Location: MW #9 **Completed:**
Notes:

Conclusions:

| Analyte | Date | Time | Result | Units | LOQ | S/ Out | Laboratory |
|-------------------------|-----------|---------|--------|-------|------|-------------------------------------|-------------------------------|
| .- Chloride, IC | 3/31/2017 | 4:55 am | 71 | mg/L | 1 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Alkalinity, Carbonate | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Alkalinity, Total | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Fluoride, IC | 3/31/2017 | 4:55 am | 1.13 | mg/L | 0.25 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 3/30/2017 | 4:55 pm | 7.24 | SU | 2 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 4/5/2017 | 9:00 am | 406 | mg/L | 10 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | | | | # | 1 | <input checked="" type="checkbox"/> | |
| Sulfate, IC | 3/31/2017 | 4:55 am | 62 | mg/L | 1 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | | | | # | 1 | <input checked="" type="checkbox"/> | |

| | | | |
|--|-----------------------------------|------------------------|----------------------|
| Sample ID: S17089162D | Client ID: MW 9A | Sampler: Client | Type: Grab |
| Client: Coletto Creek Power - R Coleman | Status: Normal | Batch No: 53304 | Matrix: Water |
| Study: Water | Sampled: 3/30/2017 9:13 AM | Completed: | |
| Project: Coletto Creek - CCR | | | |
| Location: MW 9A | | | |
| Notes: | | | |
| Conclusions: | | | |

| Analyte | Date | Time | Result | Units | LOQ | S/ Out | Laboratory |
|-------------------------|-----------|---------|--------|-------|------|-------------------------------------|-------------------------------|
| .- Chloride, IC | 3/31/2017 | 6:11 am | 67 | mg/L | 1 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Alkalinity, Carbonate | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Alkalinity, Total | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Fluoride, IC | 3/31/2017 | 6:11 am | 1.19 | mg/L | 0.25 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 3/30/2017 | 4:55 pm | 7.47 | SU | 2 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 4/5/2017 | 9:00 am | 400 | mg/L | 10 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | | | | # | 1 | <input checked="" type="checkbox"/> | |
| Sulfate, IC | 3/31/2017 | 6:11 am | 63 | mg/L | 1 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | | | | # | 1 | <input checked="" type="checkbox"/> | |

| | | | |
|--|------------------------------------|------------------------|----------------------|
| Sample ID: S17089162E | Client ID: MW 5 | Sampler: Client | Type: Grab |
| Client: Coletto Creek Power - R Coleman | Status: Normal | Batch No: 53304 | Matrix: Water |
| Study: Water | Sampled: 3/30/2017 10:58 AM | Completed: | |
| Project: Coletto Creek - CCR | | | |
| Location: MW #5 | | | |
| Notes: | | | |
| Conclusions: | | | |

| Analyte | Date | Time | Result | Units | LOQ | S/ Out | Laboratory |
|-------------------------|-----------|---------|--------|-------|------|-------------------------------------|-------------------------------|
| .- Chloride, IC | 3/31/2017 | 3:01 am | 140 | mg/L | 1 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Alkalinity, Carbonate | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Alkalinity, Total | | | | mg/L | 10 | <input checked="" type="checkbox"/> | |
| Fluoride, IC | 3/31/2017 | 3:01 am | 0.51 | mg/L | 0.25 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 3/30/2017 | 4:55 pm | 7.25 | SU | 2 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 4/5/2017 | 9:00 am | 830 | mg/L | 10 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | | | | # | 1 | <input checked="" type="checkbox"/> | |
| Sulfate, IC | 3/31/2017 | 3:01 am | 184 | mg/L | 1 | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | | | | # | 1 | <input checked="" type="checkbox"/> | |

BatchNo: 54994

SAMPLE REPORT



T104704328-17-14

Business

Coletto Creek Power - R Coleman
PO Box 8
Fannin TX 77960
Att: Rick Coleman



Laboratory

B Environmental, LLC.
1606 E Brazos, Suite D
Victoria TX 77901
ph. 361-572-8224

Reference Information

Project: CCR Sampling
Printed: Tuesday, June 13, 2017

Re: Coletto Creek Power - R Coleman

Dear: Rick Coleman

Attached are the results for sample(s) received on 5/9/2017

The analytical results relate only to the samples tested.
All supporting quality data meets the requirements of NELAC unless noted in the case narrative section of the report.

This report contains 36 pages (including the cover page)

If you have any questions concerning this report, please do not hesitate to call (361) 572-8224 or Fax us at (361) 572-4115

Respectfully Submitted,

Kevin Baros
Laboratory Director



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BatchNo: 54994

Victoria TX 77901

Batch No: 54994

Sample Receipt Checklist

Date Received: 5/9/2017

Project: CCR Sampling Received By: Woodruff

Login completed by: Woodruff 5/9/2017
Signature LoginDate:

Carrier Name Walk In

- Shipping container/cooler in good condition? YES NO Not Present
- Custody seals intact on shipping container/cooler? YES NO Not Present
- Custody seals intact on sample bottles? YES NO Not Present
- Chain of Custody present? YES NO
- Chain of Custody signed when relinquished and received YES NO
- Chain of Custody agrees with sample labels? YES NO
- Samples in proper container/bottles? YES NO
- Sample containers intact? YES NO
- Sufficient sample volume for indicated tests? YES NO
- All samples received within holding times? YES NO
- Container/Temp Blank - temperature in compliance? YES NO >0 <6 °C On Ice
- Water - VOA vials have zero headspace? Bubble < 6mm? YES NO No VOA Vials submitted
- Water - pH acceptable upon receipt? YES NO Not Applicable

*TEMP 15.3/15.1 pH Adjusted? No Checked By L. Vahrenkamp

Any No and/or N/A (not applicable) response must be detailed in the comments section below.

Client contacted PersonContacted
Contacted by: Date Contacted:

Regarding

Comments
Therm. #3. HNO3 Lot# 2-42-12. The samples were received the same day they were collected and were in the process of cooling. BV-21 was resamples for Ra226 & Ra228 and this result will be included in a separate report.

Corrective Action



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BatchNo:

54994

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Sample Report Information



| | | | | | |
|-------------------|-------------------|-------------------|--------------|-----------------|---------------|
| Sample ID: | S171291549 | Client ID: | Blank | Sampler: | Client |
|-------------------|-------------------|-------------------|--------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman

Batch No: 54994

Study: Water

Sampled: 5/9/2017

2:45 PM

Project: CCR Sampling

Location: Blank

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | < 1 | mg/L | EPA 300 | K Baros | 5/10/2017 16:16 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | < 20 | mg/L | SM 2320 B | | 5/11/2017 12:21 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 5/11/2017 12:21 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | < 20 | mg/L | SM 2320 B | | 5/11/2017 12:21 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | < 0.25 | mg/L | EPA 300 | K Baros | 5/10/2017 16:16 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 6.38 | SU | SM 4500-H+B | C Watts | 5/9/2017 16:45 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | < 25 | mg/L | SM2540C | C Watts | 5/11/2017 14:30 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 5/12/2017 14:35 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | < 1 | mg/L | EPA 300 | K Baros | 5/10/2017 16:16 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 5/25/2017 7:35 | | | | | <input checked="" type="checkbox"/> | ARS International |



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BatchNo: 54994

Sample Report Information



| | | |
|------------------------------|-----------------------|------------------------|
| Sample ID: S171291552 | Client ID: DUP | Sampler: Client |
|------------------------------|-----------------------|------------------------|

Client: Coletto Creek Power - R Coleman
 Study: Water
 Project: CCR Sampling
 Location: Dup
 Notes:

Batch No: 54994
 Sampled: 5/9/2017 2:45 PM
 Type: Grab
 Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 76 | mg/L | EPA 300 | K Baros | 5/10/2017 16:54 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 259 | mg/L | SM 2320 B | | 5/11/2017 12:32 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 5/11/2017 12:32 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 259 | mg/L | SM 2320 B | | 5/11/2017 12:32 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.45 | mg/L | EPA 300 | K Baros | 5/10/2017 16:54 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 6.93 | SU | SM 4500-H+B | C Watts | 5/9/2017 16:45 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 566 | mg/L | SM2540C | C Watts | 5/11/2017 14:30 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 5/12/2017 15:30 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 79 | mg/L | EPA 300 | K Baros | 5/10/2017 16:54 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 5/25/2017 7:35 | | | | | <input checked="" type="checkbox"/> | ARS International |



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BatchNo: 54994

Sample Report Information



| | | | |
|------------------------------|------------------------|-----------------|---------------|
| Sample ID: S171291553 | Client ID: MW-8 | Sampler: | Client |
|------------------------------|------------------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman
Study: Water
Project: CCR Sampling
Location: MW #8
Notes:

Batch No: 54994
Sampled: 5/9/2017 10:50 AM
Type: Grab
Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 77 | mg/L | EPA 300 | K Baros | 5/10/2017 18:10 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 256 | mg/L | SM 2320 B | | 5/11/2017 12:40 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 5/11/2017 12:40 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 256 | mg/L | SM 2320 B | | 5/11/2017 12:40 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.44 | mg/L | EPA 300 | K Baros | 5/10/2017 18:10 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 6.99 | SU | SM 4500-H+B | C Watts | 5/9/2017 16:45 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 564 | mg/L | SM2540C | C Watts | 5/11/2017 14:30 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 5/12/2017 15:32 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 79 | mg/L | EPA 300 | K Baros | 5/10/2017 18:10 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 5/25/2017 7:35 | | | | | <input checked="" type="checkbox"/> | ARS International |



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BatchNo: 54994

Sample Report Information



| | | | | | |
|------------|------------|------------|------|----------|--------|
| Sample ID: | S171291554 | Client ID: | MW-4 | Sampler: | Client |
|------------|------------|------------|------|----------|--------|

Client: Coleta Creek Power - R Coleman
 Study: Water
 Project: CCR Sampling
 Location: MW 4
 Notes:

Batch No: 54994
 Sampled: 5/9/2017 10:50 AM
 Type: Grab
 Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 101 | mg/L | EPA 300 | K Baros | 5/10/2017 18:48 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 242 | mg/L | SM 2320 B | | 5/11/2017 12:50 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 5/11/2017 12:50 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 242 | mg/L | SM 2320 B | | 5/11/2017 12:50 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.61 | mg/L | EPA 300 | K Baros | 5/10/2017 18:48 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 6.93 | SU | SM 4500-H+B | C Watts | 5/9/2017 16:45 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 668 | mg/L | SM2540C | C Watts | 5/11/2017 14:30 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 5/12/2017 15:34 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 156 | mg/L | EPA 300 | K Baros | 5/10/2017 18:48 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 5/25/2017 7:35 | | | | | <input checked="" type="checkbox"/> | ARS International |



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BatchNo: 54994

Sample Report Information



| | | |
|------------------------------|-------------------------|------------------------|
| Sample ID: S171291555 | Client ID: BV-15 | Sampler: Client |
|------------------------------|-------------------------|------------------------|

Client: Coletto Creek Power - R Coleman
 Study: Water
 Project: CCR Sampling
 Location: BV 15
 Notes:

Batch No: 54994
 Sampled: 5/9/2017 9:00 AM
 Type: Grab
 Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 62 | mg/L | EPA 300 | K Baros | 5/10/2017 19:26 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 183 | mg/L | SM 2320 B | | 5/11/2017 12:57 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 5/11/2017 12:57 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 183 | mg/L | SM 2320 B | | 5/11/2017 12:57 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.79 | mg/L | EPA 300 | K Baros | 5/10/2017 19:26 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.2 | SU | SM 4500-H+B | C Watts | 5/9/2017 16:45 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 454 | mg/L | SM2540C | C Watts | 5/11/2017 14:30 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 5/12/2017 15:35 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 96 | mg/L | EPA 300 | K Baros | 5/10/2017 19:26 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 5/25/2017 7:35 | | | | | <input checked="" type="checkbox"/> | ARS International |



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BatchNo: 54994

Victoria TX 77901

Sample Report Information



| | | | |
|------------------------------|-------------------------|-----------------|---------------|
| Sample ID: S171291556 | Client ID: BV-21 | Sampler: | Client |
|------------------------------|-------------------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman
Study: Water
Project: CCR Sampling
Location: BV 21
Notes:

Batch No: 54994
Sampled: 5/9/2017 9:43 AM
Type: Grab
Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 38 | mg/L | EPA 300 | K Baros | 5/10/2017 20:04 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 229 | mg/L | SM 2320 B | | 5/11/2017 13:05 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 5/11/2017 13:05 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 229 | mg/L | SM 2320 B | | 5/11/2017 13:05 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.81 | mg/L | EPA 300 | K Baros | 5/10/2017 20:04 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.04 | SU | SM 4500-H+B | C Watts | 5/9/2017 16:45 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 410 | mg/L | SM2540C | C Watts | 5/11/2017 14:30 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 5/12/2017 15:37 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 55 | mg/L | EPA 300 | K Baros | 5/10/2017 20:04 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |



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BatchNo: 54994

Sample Report Information



| | | | | | |
|------------|------------|------------|-------|----------|--------|
| Sample ID: | S171291557 | Client ID: | BV-22 | Sampler: | Client |
|------------|------------|------------|-------|----------|--------|

Client: Coletto Creek Power - R Coleman
 Study: Water
 Project: CCR Sampling
 Location: BV 22
 Notes:

Batch No: 54994
 Sampled: 5/9/2017 10:17 AM
 Type: Grab
 Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 35 | mg/L | EPA 300 | K Baros | 5/10/2017 21:59 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 231 | mg/L | SM 2320 B | | 5/11/2017 13:14 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 5/11/2017 13:14 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 231 | mg/L | SM 2320 B | | 5/11/2017 13:14 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.53 | mg/L | EPA 300 | K Baros | 5/10/2017 21:59 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.07 | SU | SM 4500-H+B | C Watts | 5/9/2017 16:45 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 390 | mg/L | SM2540C | C Watts | 5/11/2017 14:30 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 5/12/2017 16:08 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 34 | mg/L | EPA 300 | K Baros | 5/10/2017 21:59 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 5/25/2017 | | | | | | <input checked="" type="checkbox"/> ARS International |



B Environmental, LLC. 1606 E Brazos, Suite D Victoria TX 77901
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QA Summary Report

| Parameter | ID | Result | Ref Value | Amt Added | LOQ | Qualifier | Control | Flag | Comments |
|------------------------------------|------------|-----------|-----------|-----------|------|-----------|----------|------|-------------------------------|
| .Method Blank | | | | | | | | | |
| - Chloride, IC | Q171422256 | <1mg/L | 0 | | 1 | | 1 | | Blank Acceptable. |
| 5/10/2017 13:05 | | | | | | | | | |
| Fluoride, IC | Q171422256 | <0.25mg/L | 0 | | 0.25 | | 0.25 | | Blank Acceptable. |
| 5/10/2017 13:05 | | | | | | | | | |
| Solids, Total Dissolved | Q171321636 | <25mg/L | 0 | | 10 | | 25 | | Blank Acceptable. |
| 5/11/2017 14:30 | | | | | | | | | |
| Sulfate, IC | Q171422256 | <1mg/L | 0 | | 1 | | 1 | | Blank Acceptable. |
| 5/10/2017 13:05 | | | | | | | | | |
| Duplicate | | | | | | | | | |
| pH (Standard Units) | Q171291702 | 6.38SU | 6.36 | | 2 | 0.3% | 20 | | Duplicate RPD Acceptable. |
| 5/9/2017 16:45 | | | | | | | | | |
| Solids, Total Dissolved | Q171321638 | 662mg/L | 660 | | 10 | 0.3% | 20 | | Duplicate RPD Acceptable. |
| 5/11/2017 14:30 | | | | | | | | | |
| Laboratory Control Standard | | | | | | | | | |
| - Chloride, IC | Q171422258 | 25.9mg/L | 25 | | 1 | 103.6% | 80 - 120 | | Standard Recovery Acceptable. |
| 5/10/2017 13:43 | | | | | | 3.5% | 20 | | Standard RPD Acceptable. |
| Fluoride, IC | Q171422258 | 2.12mg/L | 2 | | 0.25 | 106.0% | 80 - 120 | | Standard Recovery Acceptable. |
| 5/10/2017 13:43 | | | | | | 5.8% | 20 | | Standard RPD Acceptable. |
| pH (Standard Units) | Q171291701 | 7.03SU | 7 | | 2 | 100.4% | 80 - 120 | | Standard Recovery Acceptable. |
| 5/9/2017 16:45 | | | | | | 0.4% | 20 | | Standard RPD Acceptable. |
| Sulfate, IC | Q171422258 | 26.4mg/L | 25 | | 1 | 105.6% | 80 - 120 | | Standard Recovery Acceptable. |
| 5/10/2017 13:43 | | | | | | 5.4% | 20 | | Standard RPD Acceptable. |
| Matrix Spike | | | | | | | | | |
| - Chloride, IC | Q171422259 | 103mg/L | 102.9 | 25 | 1 | 100.4% | 80 - 120 | | Spike Recovery Acceptable. |
| 5/11/2017 2:25 | | | | | | 0.1% | 20 | | Spike RPD Acceptable. |
| Fluoride, IC | Q171422259 | 2.38mg/L | 2.45 | 2 | 0.25 | 96.5% | 80 - 120 | | Spike Recovery Acceptable. |
| 5/11/2017 2:25 | | | | | | 2.9% | 20 | | Spike RPD Acceptable. |
| Sulfate, IC | Q171422259 | 115mg/L | 115 | 25 | 1 | 100.0% | 70 - 130 | | Spike Recovery Acceptable. |
| 5/11/2017 2:25 | | | | | | 0.0% | 20 | | Spike RPD Acceptable. |
| Matrix Spike Dup | | | | | | | | | |
| - Chloride, IC | Q17142225A | 103mg/L | 102.9 | 25 | 1 | 100.4% | 80 - 120 | | Spike Recovery Acceptable. |
| 5/11/2017 3:04 | | | | | | 0.1% | 20 | | Spike RPD Acceptable. |
| Fluoride, IC | Q17142225A | 2.38mg/L | 2.45 | 2 | 0.25 | 96.5% | 80 - 120 | | Spike Recovery Acceptable. |
| 5/11/2017 3:04 | | | | | | 2.9% | 20 | | Spike RPD Acceptable. |
| Sulfate, IC | Q17142225A | 115mg/L | 115 | 25 | 1 | 100.0% | 70 - 130 | | Spike Recovery Acceptable. |
| 5/11/2017 3:04 | | | | | | 0.0% | 20 | | Spike RPD Acceptable. |



B Environmental, LLC.

BatchNo:

54994

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1606 E Brazos, Suite D

Victoria TX 77901

Flag and Qualifier Legend



Negative - Result Detected

MDL = Method Detection Limit

DF = Dilution Factor



Caution - Problem Detected

LOQ = Limit of Quantitation

j = Analyte detected between MDL and LOQ



Warning - Null Value

S = surrogate standard out of limit

H = sample out of hold time



MS, MSD, RPD- Failure may occur due to matrix interference, data released per QA plan

Tuesday, June 13, 2017

B Environmental - LDMS QA Report Summary

Note:

THANK YOU!



B Environmental, LLC.

1606 E Brazos, Suite D

Victoria TX

77901

This report shall not be reproduced except in full, without written approval of the laboratory

DHL Analytical, Inc.

Date: 17-May-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Lab Order: 1705092

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition and Standard Methods.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives except where noted in the following. For Total Metals Analysis, the recoveries of four analytes for the Matrix Spike and Matrix Spike Duplicate (1705091-03 MS/MSD) were outside of the method control limits. These are flagged accordingly in the QC Summary Report. These analytes were within method control limits in the associated LCS. No further corrective action was taken.

For Total Metals Analysis, the recoveries of three analytes for the Post Digestion Spike (1705091-03 PDS) were outside of the method control limits. These are flagged accordingly in the QC Summary Report. These analytes were within method control limits in the associated Serial Dilution. No further corrective action was taken.

For Total Metals Analysis, the RPD of Potassium for the Serial Dilution (1705091-03 SD) was above the method control limit. This is flagged accordingly in the QC Summary Report. This analyte was within method control limits in the associated Post Digestion Spike. No further corrective action was taken.

The Total and Dissolved Metals Analysis, the results Dissolved Lithium/Molybdenum for five samples were slightly higher than the results of Total Lithium/Molybdenum. The results were within acceptable analytical variation limits. No further corrective action was taken.

DHL Analytical, Inc.

Date: 17-May-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR Sampling (54994)
Lab Order: 1705092

Client Sample ID: Blank
Lab ID: 1705092-01
Alternate ID: S171291549
Collection Date: 05/09/17 02:45 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|------|----------------|----|---------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | | | | Analyst: SP |
| Dissolved Lithium | <0.00500 | 0.00500 | 0.0100 | | mg/L | 1 | 05/10/17 03:52 PM |
| Dissolved Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/10/17 03:52 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | | | | Analyst: CVD |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 05/12/17 02:35 PM |
| Arsenic | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/12/17 02:35 PM |
| Barium | <0.00300 | 0.00300 | 0.0100 | | mg/L | 1 | 05/12/17 02:35 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/12/17 02:35 PM |
| Boron | 0.0553 | 0.0100 | 0.0300 | | mg/L | 1 | 05/12/17 02:35 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/12/17 02:35 PM |
| Calcium | 0.429 | 0.100 | 0.300 | | mg/L | 1 | 05/12/17 02:35 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/12/17 02:35 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 05/12/17 02:35 PM |
| Lead | 0.000450 | 0.000300 | 0.00100 | J | mg/L | 1 | 05/12/17 02:35 PM |
| Lithium | <0.00500 | 0.00500 | 0.0100 | | mg/L | 1 | 05/12/17 02:35 PM |
| Magnesium | <0.100 | 0.100 | 0.300 | | mg/L | 1 | 05/12/17 02:35 PM |
| Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/12/17 02:35 PM |
| Potassium | <0.100 | 0.100 | 0.300 | | mg/L | 1 | 05/12/17 02:35 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/12/17 02:35 PM |
| Sodium | <0.100 | 0.100 | 0.300 | | mg/L | 1 | 05/12/17 02:35 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 05/12/17 02:35 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | | | Analyst: AH |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 05/16/17 02:07 PM |
| ALKALINITY | | M2320 B | | | | | Analyst: BTJ |
| Alkalinity, Bicarbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.21 | 1 | 05/11/17 12:21 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.21 | 1 | 05/11/17 12:21 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.21 | 1 | 05/11/17 12:21 PM |
| Alkalinity, Total (As CaCO3) | <20.0 | 20.0 | 20.0 | | mg/L @ pH 4.21 | 1 | 05/11/17 12:21 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 17-May-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR Sampling (54994)
Lab Order: 1705092

Client Sample ID: Dup
Lab ID: 1705092-02
Alternate ID: S171291552
Collection Date: 05/09/17
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 0.0107 | 0.00500 | 0.0100 | | mg/L | 1 | 05/10/17 03:48 PM |
| Dissolved Molybdenum | 0.0165 | 0.00200 | 0.00500 | | mg/L | 1 | 05/10/17 03:48 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: CVD | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 05/12/17 03:30 PM |
| Arsenic | 0.00836 | 0.00200 | 0.00500 | | mg/L | 1 | 05/12/17 03:30 PM |
| Barium | 0.0636 | 0.00300 | 0.0100 | | mg/L | 1 | 05/12/17 03:30 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/12/17 03:30 PM |
| Boron | 1.36 | 0.100 | 0.300 | | mg/L | 10 | 05/12/17 02:36 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/12/17 03:30 PM |
| Calcium | 76.8 | 1.00 | 3.00 | | mg/L | 10 | 05/12/17 02:36 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/12/17 03:30 PM |
| Cobalt | 0.0263 | 0.00300 | 0.00500 | | mg/L | 1 | 05/12/17 03:30 PM |
| Lead | 0.000578 | 0.000300 | 0.00100 | J | mg/L | 1 | 05/12/17 03:30 PM |
| Lithium | 0.0119 | 0.00500 | 0.0100 | | mg/L | 1 | 05/12/17 03:30 PM |
| Magnesium | 12.8 | 0.100 | 0.300 | | mg/L | 1 | 05/12/17 03:30 PM |
| Molybdenum | 0.0154 | 0.00200 | 0.00500 | | mg/L | 1 | 05/12/17 03:30 PM |
| Potassium | 0.977 | 0.100 | 0.300 | | mg/L | 1 | 05/12/17 03:30 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/12/17 03:30 PM |
| Sodium | 84.6 | 1.00 | 3.00 | | mg/L | 10 | 05/12/17 02:36 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 05/12/17 03:30 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 05/16/17 02:14 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 259 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/11/17 12:32 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/11/17 12:32 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/11/17 12:32 PM |
| Alkalinity, Total (As CaCO3) | 259 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/11/17 12:32 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 17-May-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (54994)
Lab Order: 1705092

Client Sample ID: MW-8
Lab ID: 1705092-03
Alternate ID: S171291553
Collection Date: 05/09/17 10:50 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|-----------|----------------|---------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 0.0108 | 0.00500 | 0.0100 | | mg/L | 1 | 05/10/17 03:54 PM |
| Dissolved Molybdenum | 0.0161 | 0.00200 | 0.00500 | | mg/L | 1 | 05/10/17 03:54 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: CVD | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 05/12/17 03:32 PM |
| Arsenic | 0.00848 | 0.00200 | 0.00500 | | mg/L | 1 | 05/12/17 03:32 PM |
| Barium | 0.0640 | 0.00300 | 0.0100 | | mg/L | 1 | 05/12/17 03:32 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/12/17 03:32 PM |
| Boron | 1.21 | 0.100 | 0.300 | | mg/L | 10 | 05/12/17 02:38 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/12/17 03:32 PM |
| Calcium | 77.5 | 1.00 | 3.00 | | mg/L | 10 | 05/12/17 02:38 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/12/17 03:32 PM |
| Cobalt | 0.0272 | 0.00300 | 0.00500 | | mg/L | 1 | 05/12/17 03:32 PM |
| Lead | 0.000535 | 0.000300 | 0.00100 | J | mg/L | 1 | 05/12/17 03:32 PM |
| Lithium | 0.0111 | 0.00500 | 0.0100 | | mg/L | 1 | 05/12/17 03:32 PM |
| Magnesium | 12.9 | 0.100 | 0.300 | | mg/L | 1 | 05/12/17 03:32 PM |
| Molybdenum | 0.0157 | 0.00200 | 0.00500 | | mg/L | 1 | 05/12/17 03:32 PM |
| Potassium | 0.979 | 0.100 | 0.300 | | mg/L | 1 | 05/12/17 03:32 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/12/17 03:32 PM |
| Sodium | 85.3 | 1.00 | 3.00 | | mg/L | 10 | 05/12/17 02:38 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 05/12/17 03:32 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.000800 | 0.000800 | 0.00200 | | mg/L | 1 | 05/16/17 02:16 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 256 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/11/17 12:40 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/11/17 12:40 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/11/17 12:40 PM |
| Alkalinity, Total (As CaCO3) | 256 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/11/17 12:40 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern J Analyte detected between MDL and RL
 MDL Method Detection Limit ND Not Detected at the Method Detection Limit
 RL Reporting Limit S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 17-May-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (54994)
Lab Order: 1705092

Client Sample ID: MW-4
Lab ID: 1705092-04
Alternate ID: S171291554
Collection Date: 05/09/17 01:32 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 0.0177 | 0.00500 | 0.0100 | | mg/L | 1 | 05/10/17 03:56 PM |
| Dissolved Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/10/17 03:56 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: CVD | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 05/12/17 03:34 PM |
| Arsenic | 0.00733 | 0.00200 | 0.00500 | | mg/L | 1 | 05/12/17 03:34 PM |
| Barium | 0.0576 | 0.00300 | 0.0100 | | mg/L | 1 | 05/12/17 03:34 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/12/17 03:34 PM |
| Boron | 0.395 | 0.100 | 0.300 | | mg/L | 10 | 05/12/17 02:40 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/12/17 03:34 PM |
| Calcium | 88.7 | 1.00 | 3.00 | | mg/L | 10 | 05/12/17 02:40 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/12/17 03:34 PM |
| Cobalt | 0.00653 | 0.00300 | 0.00500 | | mg/L | 1 | 05/12/17 03:34 PM |
| Lead | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/12/17 03:34 PM |
| Lithium | 0.0182 | 0.00500 | 0.0100 | | mg/L | 1 | 05/12/17 03:34 PM |
| Magnesium | 17.7 | 0.100 | 0.300 | | mg/L | 1 | 05/12/17 03:34 PM |
| Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/12/17 03:34 PM |
| Potassium | 1.37 | 0.100 | 0.300 | | mg/L | 1 | 05/12/17 03:34 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/12/17 03:34 PM |
| Sodium | 105 | 1.00 | 3.00 | | mg/L | 10 | 05/12/17 02:40 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 05/12/17 03:34 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 05/16/17 02:18 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 242 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/11/17 12:50 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/11/17 12:50 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/11/17 12:50 PM |
| Alkalinity, Total (As CaCO3) | 242 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/11/17 12:50 PM |

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- B Analyte detected in the associated Method Blank
- C Sample Result or QC discussed in the Case Narrative
- DF Dilution Factor
- E TPH pattern not Gas or Diesel Range Pattern
- J Analyte detected between MDL and RL
- MDL Method Detection Limit
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 17-May-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR Sampling (54994)
Lab Order: 1705092

Client Sample ID: BV-15
Lab ID: 1705092-05
Alternate ID: S171291555
Collection Date: 05/09/17 09:00 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|------|----------------|----|---------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | | | | Analyst: SP |
| Dissolved Lithium | 0.00697 | 0.00500 | 0.0100 | J | mg/L | 1 | 05/10/17 03:58 PM |
| Dissolved Molybdenum | 0.0195 | 0.00200 | 0.00500 | | mg/L | 1 | 05/10/17 03:58 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | | | | Analyst: CVD |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 05/12/17 03:35 PM |
| Arsenic | 0.00872 | 0.00200 | 0.00500 | | mg/L | 1 | 05/12/17 03:35 PM |
| Barium | 0.0529 | 0.00300 | 0.0100 | | mg/L | 1 | 05/12/17 03:35 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/12/17 03:35 PM |
| Boron | 1.29 | 0.100 | 0.300 | | mg/L | 10 | 05/12/17 02:42 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/12/17 03:35 PM |
| Calcium | 61.0 | 1.00 | 3.00 | | mg/L | 10 | 05/12/17 02:42 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/12/17 03:35 PM |
| Cobalt | 0.0141 | 0.00300 | 0.00500 | | mg/L | 1 | 05/12/17 03:35 PM |
| Lead | 0.00440 | 0.000300 | 0.00100 | | mg/L | 1 | 05/12/17 03:35 PM |
| Lithium | 0.00654 | 0.00500 | 0.0100 | J | mg/L | 1 | 05/12/17 03:35 PM |
| Magnesium | 9.43 | 0.100 | 0.300 | | mg/L | 1 | 05/12/17 03:35 PM |
| Molybdenum | 0.0191 | 0.00200 | 0.00500 | | mg/L | 1 | 05/12/17 03:35 PM |
| Potassium | 1.17 | 0.100 | 0.300 | | mg/L | 1 | 05/12/17 03:35 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/12/17 03:35 PM |
| Sodium | 76.0 | 1.00 | 3.00 | | mg/L | 10 | 05/12/17 02:42 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 05/12/17 03:35 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | | | Analyst: AH |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 05/16/17 02:20 PM |
| ALKALINITY | | M2320 B | | | | | Analyst: BTJ |
| Alkalinity, Bicarbonate (As CaCO3) | 183 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 05/11/17 12:57 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 05/11/17 12:57 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 05/11/17 12:57 PM |
| Alkalinity, Total (As CaCO3) | 183 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 05/11/17 12:57 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern J Analyte detected between MDL and RL
 MDL Method Detection Limit ND Not Detected at the Method Detection Limit
 RL Reporting Limit S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 17-May-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR Sampling (54994)
Lab Order: 1705092

Client Sample ID: BV-21
Lab ID: 1705092-06
Alternate ID: S171291556
Collection Date: 05/09/17 09:43 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 0.00504 | 0.00500 | 0.0100 | J | mg/L | 1 | 05/10/17 04:00 PM |
| Dissolved Molybdenum | 0.00290 | 0.00200 | 0.00500 | J | mg/L | 1 | 05/10/17 04:00 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: CVD | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 05/12/17 03:37 PM |
| Arsenic | 0.108 | 0.00200 | 0.00500 | | mg/L | 1 | 05/12/17 03:37 PM |
| Barium | 0.0972 | 0.00300 | 0.0100 | | mg/L | 1 | 05/12/17 03:37 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/12/17 03:37 PM |
| Boron | 0.687 | 0.100 | 0.300 | | mg/L | 10 | 05/12/17 02:44 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/12/17 03:37 PM |
| Calcium | 65.2 | 1.00 | 3.00 | | mg/L | 10 | 05/12/17 02:44 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/12/17 03:37 PM |
| Cobalt | 0.00852 | 0.00300 | 0.00500 | | mg/L | 1 | 05/12/17 03:37 PM |
| Lead | 0.000618 | 0.000300 | 0.00100 | J | mg/L | 1 | 05/12/17 03:37 PM |
| Lithium | <0.00500 | 0.00500 | 0.0100 | | mg/L | 1 | 05/12/17 03:37 PM |
| Magnesium | 8.33 | 0.100 | 0.300 | | mg/L | 1 | 05/12/17 03:37 PM |
| Molybdenum | 0.00277 | 0.00200 | 0.00500 | J | mg/L | 1 | 05/12/17 03:37 PM |
| Potassium | 0.832 | 0.100 | 0.300 | | mg/L | 1 | 05/12/17 03:37 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/12/17 03:37 PM |
| Sodium | 59.2 | 1.00 | 3.00 | | mg/L | 10 | 05/12/17 02:44 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 05/12/17 03:37 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 05/16/17 02:23 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 229 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 05/11/17 01:05 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 05/11/17 01:05 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 05/11/17 01:05 PM |
| Alkalinity, Total (As CaCO3) | 229 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 05/11/17 01:05 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern J Analyte detected between MDL and RL
 MDL Method Detection Limit ND Not Detected at the Method Detection Limit
 RL Reporting Limit S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 17-May-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR Sampling (54994)
Lab Order: 1705092

Client Sample ID: BV-22
Lab ID: 1705092-07
Alternate ID: S171291557
Collection Date: 05/09/17 10:17 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|------|---------------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | | Analyst: SP | | |
| Dissolved Lithium | 0.00626 | 0.00500 | 0.0100 | J | mg/L | 1 | 05/10/17 04:02 PM |
| Dissolved Molybdenum | 0.00866 | 0.00200 | 0.00500 | | mg/L | 1 | 05/10/17 04:02 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | | Analyst: CVD | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 05/12/17 04:08 PM |
| Arsenic | 0.00656 | 0.00200 | 0.00500 | | mg/L | 1 | 05/12/17 04:08 PM |
| Barium | 0.0452 | 0.00300 | 0.0100 | | mg/L | 1 | 05/12/17 04:08 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/12/17 04:08 PM |
| Boron | 0.631 | 0.100 | 0.300 | | mg/L | 10 | 05/12/17 02:45 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/12/17 04:08 PM |
| Calcium | 59.2 | 1.00 | 3.00 | | mg/L | 10 | 05/12/17 02:45 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/12/17 04:08 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 05/12/17 04:08 PM |
| Lead | 0.000637 | 0.000300 | 0.00100 | J | mg/L | 1 | 05/12/17 04:08 PM |
| Lithium | 0.00635 | 0.00500 | 0.0100 | J | mg/L | 1 | 05/12/17 04:08 PM |
| Magnesium | 9.70 | 0.100 | 0.300 | | mg/L | 1 | 05/12/17 04:08 PM |
| Molybdenum | 0.00799 | 0.00200 | 0.00500 | | mg/L | 1 | 05/12/17 04:08 PM |
| Potassium | 0.962 | 0.100 | 0.300 | | mg/L | 1 | 05/12/17 04:08 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/12/17 04:08 PM |
| Sodium | 58.3 | 1.00 | 3.00 | | mg/L | 10 | 05/12/17 02:45 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 05/12/17 04:08 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | Analyst: AH | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 05/16/17 02:34 PM |
| ALKALINITY | | M2320 B | | | Analyst: BTJ | | |
| Alkalinity, Bicarbonate (As CaCO3) | 231 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/11/17 01:14 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/11/17 01:14 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/11/17 01:14 PM |
| Alkalinity, Total (As CaCO3) | 231 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/11/17 01:14 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 17-May-17

CLIENT: B-Environmental
Work Order: 1705092
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_170516B

The QC data in batch 80398 applies to the following samples: 1705092-01A, 1705092-02A, 1705092-03A, 1705092-04A, 1705092-05A, 1705092-06A, 1705092-07A

| | | | | | | | | | | |
|---------------------------|---------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID MB-80398 | Batch ID: 80398 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: MBLK | Run ID: CETAC2_HG_170516 | Analysis Date: 5/16/2017 1:39:59 PM | Prep Date: 5/10/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|---------|------------|----------|--|--|--|--|--|--|--|--|
| Mercury | <0.0000800 | 0.000200 | | | | | | | | |
|---------|------------|----------|--|--|--|--|--|--|--|--|

| | | | | | | | | | | |
|----------------------------|---------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID LCS-80398 | Batch ID: 80398 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: LCS | Run ID: CETAC2_HG_170516 | Analysis Date: 5/16/2017 1:42:15 PM | Prep Date: 5/10/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|---------|---------|----------|---------|---|------|----|-----|--|--|--|
| Mercury | 0.00198 | 0.000200 | 0.00200 | 0 | 99.0 | 85 | 115 | | | |
|---------|---------|----------|---------|---|------|----|-----|--|--|--|

| | | | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID LCSD-80398 | Batch ID: 80398 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: LCSD | Run ID: CETAC2_HG_170516 | Analysis Date: 5/16/2017 1:44:31 PM | Prep Date: 5/10/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|---------|---------|----------|---------|---|------|----|-----|------|----|--|
| Mercury | 0.00196 | 0.000200 | 0.00200 | 0 | 98.0 | 85 | 115 | 1.02 | 15 | |
|---------|---------|----------|---------|---|------|----|-----|------|----|--|

| | | | | | | | | | | |
|---------------------------------|---------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1705092-06A SD | Batch ID: 80398 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: SD | Run ID: CETAC2_HG_170516 | Analysis Date: 5/16/2017 2:25:22 PM | Prep Date: 5/10/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|---------|-----------|---------|---|---|--|--|--|---|----|--|
| Mercury | <0.000400 | 0.00100 | 0 | 0 | | | | 0 | 10 | |
|---------|-----------|---------|---|---|--|--|--|---|----|--|

| | | | | | | | | | | |
|----------------------------------|---------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1705092-06A PDS | Batch ID: 80398 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: PDS | Run ID: CETAC2_HG_170516 | Analysis Date: 5/16/2017 2:27:38 PM | Prep Date: 5/10/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|---------|---------|----------|---------|---|------|----|-----|--|--|--|
| Mercury | 0.00245 | 0.000200 | 0.00250 | 0 | 98.0 | 85 | 115 | | | |
|---------|---------|----------|---------|---|------|----|-----|--|--|--|

| | | | | | | | | | | |
|---------------------------------|---------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1705092-06A MS | Batch ID: 80398 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: MS | Run ID: CETAC2_HG_170516 | Analysis Date: 5/16/2017 2:29:54 PM | Prep Date: 5/10/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|---------|---------|----------|---------|---|------|----|-----|--|--|--|
| Mercury | 0.00196 | 0.000200 | 0.00200 | 0 | 98.0 | 80 | 120 | | | |
|---------|---------|----------|---------|---|------|----|-----|--|--|--|

| | | | | | | | | | | |
|----------------------------------|---------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1705092-06A MSD | Batch ID: 80398 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: MSD | Run ID: CETAC2_HG_170516 | Analysis Date: 5/16/2017 2:32:11 PM | Prep Date: 5/10/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|---------|---------|----------|---------|---|------|----|-----|------|----|--|
| Mercury | 0.00194 | 0.000200 | 0.00200 | 0 | 97.0 | 80 | 120 | 1.03 | 15 | |
|---------|---------|----------|---------|---|------|----|-----|------|----|--|

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705092
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170510A

The QC data in batch 80399 applies to the following samples: 1705092-01B, 1705092-02B, 1705092-03B, 1705092-04B, 1705092-05B, 1705092-06B, 1705092-07B

| | | | | | | | | | | |
|---------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID MB-80399 | Batch ID: 80399 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: MBLK | Run ID: ICP-MS4_170510A | Analysis Date: 5/10/2017 3:40:00 PM | Prep Date: 5/10/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | <0.00500 | 0.0100 | | | | | | | | |
| Molybdenum | <0.00200 | 0.00500 | | | | | | | | |

| | | | | | | | | | | |
|----------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID LCS-80399 | Batch ID: 80399 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: LCS | Run ID: ICP-MS4_170510A | Analysis Date: 5/10/2017 3:42:00 PM | Prep Date: 5/10/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.199 | 0.0100 | 0.200 | 0 | 99.5 | 80 | 120 | | | |
| Molybdenum | 0.196 | 0.00500 | 0.200 | 0 | 98.1 | 80 | 120 | | | |

| | | | | | | | | | | |
|-----------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|-------|----------|------|
| Sample ID LCSD-80399 | Batch ID: 80399 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: LCSD | Run ID: ICP-MS4_170510A | Analysis Date: 5/10/2017 3:44:00 PM | Prep Date: 5/10/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.196 | 0.0100 | 0.200 | 0 | 98.2 | 80 | 120 | 1.27 | 15 | |
| Molybdenum | 0.195 | 0.00500 | 0.200 | 0 | 97.7 | 80 | 120 | 0.376 | 15 | |

| | | | | | | | | | | |
|---------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1705092-02B SD | Batch ID: 80399 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: SD | Run ID: ICP-MS4_170510A | Analysis Date: 5/10/2017 3:50:00 PM | Prep Date: 5/10/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | <0.0250 | 0.0500 | 0 | 0.0106 | | | | 0 | 10 | |
| Molybdenum | 0.0170 | 0.0250 | 0 | 0.0165 | | | | 2.84 | 10 | |

| | | | | | | | | | | |
|----------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1705092-02B PDS | Batch ID: 80399 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: PDS | Run ID: ICP-MS4_170510A | Analysis Date: 5/10/2017 4:04:00 PM | Prep Date: 5/10/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.201 | 0.0100 | 0.200 | 0.0107 | 95.4 | 80 | 120 | | | |
| Molybdenum | 0.211 | 0.00500 | 0.200 | 0.0165 | 97.3 | 80 | 120 | | | |

| | | | | | | | | | | |
|---------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1705092-02B MS | Batch ID: 80399 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: MS | Run ID: ICP-MS4_170510A | Analysis Date: 5/10/2017 4:06:00 PM | Prep Date: 5/10/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Dissolved Lithium | 0.206 | 0.0100 | 0.200 | 0.0107 | 97.9 | 80 | 120 | | | |
| Dissolved Molybdenum | 0.217 | 0.00500 | 0.200 | 0.0165 | 100 | 80 | 120 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705092
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170510A

| Sample ID | 1705092-02B MSD | Batch ID: | 80399 | TestNo: | SW6020A | Units: | mg/L | | | |
|----------------------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|------|----------|------|
| SampType: | MSD | Run ID: | ICP-MS4_170510A | Analysis Date: | 5/10/2017 4:08:00 PM | Prep Date: | 5/10/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Dissolved Lithium | 0.203 | 0.0100 | 0.200 | 0.0107 | 96.2 | 80 | 120 | 1.63 | 15 | |
| Dissolved Molybdenum | 0.214 | 0.00500 | 0.200 | 0.0165 | 98.6 | 80 | 120 | 1.35 | 15 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705092
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170512A

The QC data in batch 80397 applies to the following samples: 1705092-01A, 1705092-02A, 1705092-03A, 1705092-04A, 1705092-05A, 1705092-06A, 1705092-07A

| | | | |
|---------------------------|--------------------------------|--|-----------------------------|
| Sample ID MB-80397 | Batch ID: 80397 | TestNo: SW6020A | Units: mg/L |
| SampType: MBLK | Run ID: ICP-MS5_170512A | Analysis Date: 5/12/2017 2:24:00 PM | Prep Date: 5/10/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|-----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | <0.000800 | 0.00250 | | | | | | | | |
| Arsenic | <0.00200 | 0.00500 | | | | | | | | |
| Barium | <0.00300 | 0.0100 | | | | | | | | |
| Beryllium | <0.000300 | 0.00100 | | | | | | | | |
| Boron | <0.0100 | 0.0300 | | | | | | | | |
| Cadmium | <0.000300 | 0.00100 | | | | | | | | |
| Calcium | <0.100 | 0.300 | | | | | | | | |
| Chromium | <0.00200 | 0.00500 | | | | | | | | |
| Cobalt | <0.00300 | 0.00500 | | | | | | | | |
| Lead | <0.000300 | 0.00100 | | | | | | | | |
| Lithium | <0.00500 | 0.0100 | | | | | | | | |
| Magnesium | <0.100 | 0.300 | | | | | | | | |
| Molybdenum | <0.00200 | 0.00500 | | | | | | | | |
| Potassium | <0.100 | 0.300 | | | | | | | | |
| Selenium | <0.00200 | 0.00500 | | | | | | | | |
| Sodium | <0.100 | 0.300 | | | | | | | | |
| Thallium | <0.000500 | 0.00150 | | | | | | | | |

| | | | |
|----------------------------|--------------------------------|--|-----------------------------|
| Sample ID LCS-80397 | Batch ID: 80397 | TestNo: SW6020A | Units: mg/L |
| SampType: LCS | Run ID: ICP-MS5_170512A | Analysis Date: 5/12/2017 2:26:00 PM | Prep Date: 5/10/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.190 | 0.00250 | 0.200 | 0 | 95.2 | 80 | 120 | | | |
| Arsenic | 0.195 | 0.00500 | 0.200 | 0 | 97.6 | 80 | 120 | | | |
| Barium | 0.194 | 0.0100 | 0.200 | 0 | 96.9 | 80 | 120 | | | |
| Beryllium | 0.189 | 0.00100 | 0.200 | 0 | 94.6 | 80 | 120 | | | |
| Boron | 0.181 | 0.0300 | 0.200 | 0 | 90.6 | 80 | 120 | | | |
| Cadmium | 0.185 | 0.00100 | 0.200 | 0 | 92.4 | 80 | 120 | | | |
| Calcium | 4.66 | 0.300 | 5.00 | 0 | 93.2 | 80 | 120 | | | |
| Chromium | 0.193 | 0.00500 | 0.200 | 0 | 96.4 | 80 | 120 | | | |
| Cobalt | 0.199 | 0.00500 | 0.200 | 0 | 99.4 | 80 | 120 | | | |
| Lead | 0.195 | 0.00100 | 0.200 | 0 | 97.3 | 80 | 120 | | | |
| Lithium | 0.184 | 0.0100 | 0.200 | 0 | 92.1 | 80 | 120 | | | |
| Magnesium | 4.73 | 0.300 | 5.00 | 0 | 94.7 | 80 | 120 | | | |
| Molybdenum | 0.188 | 0.00500 | 0.200 | 0 | 93.8 | 80 | 120 | | | |
| Potassium | 4.71 | 0.300 | 5.00 | 0 | 94.1 | 80 | 120 | | | |
| Selenium | 0.198 | 0.00500 | 0.200 | 0 | 99.0 | 80 | 120 | | | |
| Sodium | 4.83 | 0.300 | 5.00 | 0 | 96.5 | 80 | 120 | | | |
| Thallium | 0.199 | 0.00150 | 0.200 | 0 | 99.6 | 80 | 120 | | | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705092
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170512A

| | | | |
|------------------------------|--------------------------------|--|-----------------------------|
| Sample ID: LCSD-80397 | Batch ID: 80397 | TestNo: SW6020A | Units: mg/L |
| SampType: LCSD | Run ID: ICP-MS5_170512A | Analysis Date: 5/12/2017 2:28:00 PM | Prep Date: 5/10/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | 0.190 | 0.00250 | 0.200 | 0 | 94.9 | 80 | 120 | 0.295 | 15 | |
| Arsenic | 0.193 | 0.00500 | 0.200 | 0 | 96.6 | 80 | 120 | 1.03 | 15 | |
| Barium | 0.194 | 0.0100 | 0.200 | 0 | 97.1 | 80 | 120 | 0.266 | 15 | |
| Beryllium | 0.190 | 0.00100 | 0.200 | 0 | 94.9 | 80 | 120 | 0.229 | 15 | |
| Boron | 0.178 | 0.0300 | 0.200 | 0 | 89.0 | 80 | 120 | 1.73 | 15 | |
| Cadmium | 0.184 | 0.00100 | 0.200 | 0 | 92.2 | 80 | 120 | 0.270 | 15 | |
| Calcium | 4.68 | 0.300 | 5.00 | 0 | 93.6 | 80 | 120 | 0.506 | 15 | |
| Chromium | 0.193 | 0.00500 | 0.200 | 0 | 96.3 | 80 | 120 | 0.058 | 15 | |
| Cobalt | 0.197 | 0.00500 | 0.200 | 0 | 98.6 | 80 | 120 | 0.782 | 15 | |
| Lead | 0.194 | 0.00100 | 0.200 | 0 | 97.1 | 80 | 120 | 0.192 | 15 | |
| Lithium | 0.185 | 0.0100 | 0.200 | 0 | 92.5 | 80 | 120 | 0.369 | 15 | |
| Magnesium | 4.72 | 0.300 | 5.00 | 0 | 94.5 | 80 | 120 | 0.207 | 15 | |
| Molybdenum | 0.187 | 0.00500 | 0.200 | 0 | 93.7 | 80 | 120 | 0.179 | 15 | |
| Potassium | 4.69 | 0.300 | 5.00 | 0 | 93.7 | 80 | 120 | 0.455 | 15 | |
| Selenium | 0.195 | 0.00500 | 0.200 | 0 | 97.7 | 80 | 120 | 1.30 | 15 | |
| Sodium | 4.77 | 0.300 | 5.00 | 0 | 95.5 | 80 | 120 | 1.06 | 15 | |
| Thallium | 0.198 | 0.00150 | 0.200 | 0 | 99.1 | 80 | 120 | 0.506 | 15 | |

| | | | |
|----------------------------------|--------------------------------|--|-----------------------------|
| Sample ID: 1705091-03A SD | Batch ID: 80397 | TestNo: SW6020A | Units: mg/L |
| SampType: SD | Run ID: ICP-MS5_170512A | Analysis Date: 5/12/2017 2:33:00 PM | Prep Date: 5/10/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|----------|---------|-----------|----------|------|----------|-----------|-------|----------|------|
| Antimony | <0.00400 | 0.0125 | 0 | 0 | | | | 0 | 10 | |
| Arsenic | 0.0110 | 0.0250 | 0 | 0.0113 | | | | 2.59 | 10 | |
| Barium | 0.0542 | 0.0500 | 0 | 0.0539 | | | | 0.544 | 10 | |
| Beryllium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Boron | 2.34 | 0.150 | 0 | 2.19 | | | | 6.55 | 10 | |
| Cadmium | <0.00150 | 0.00500 | 0 | 0.000976 | | | | 0 | 10 | |
| Calcium | 60.0 | 1.50 | 0 | 59.7 | | | | 0.382 | 10 | |
| Chromium | <0.0100 | 0.0250 | 0 | 0.00274 | | | | 0 | 10 | |
| Cobalt | 0.397 | 0.0250 | 0 | 0.400 | | | | 0.637 | 10 | |
| Lead | 0.0117 | 0.00500 | 0 | 0.0115 | | | | 1.53 | 10 | |
| Lithium | <0.0250 | 0.0500 | 0 | 0.0162 | | | | 0 | 10 | |
| Magnesium | 12.3 | 1.50 | 0 | 12.3 | | | | 0.027 | 10 | |
| Molybdenum | 0.0229 | 0.0250 | 0 | 0.0237 | | | | 3.18 | 10 | |
| Potassium | 0.519 | 1.50 | 0 | 0.616 | | | | 17.1 | 10 | R |
| Selenium | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Sodium | 143 | 1.50 | 0 | 141 | | | | 1.07 | 10 | |
| Thallium | <0.00250 | 0.00750 | 0 | 0 | | | | 0 | 10 | |

| | |
|--|---|
| <p>Qualifiers:</p> <ul style="list-style-type: none"> B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | <ul style="list-style-type: none"> DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified |
|--|---|

CLIENT: B-Environmental
Work Order: 1705092
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170512A

| | | | | | | | |
|-----------|------------------------|-----------|------------------------|----------------|-----------------------------|------------|------------------|
| Sample ID | 1705091-03A PDS | Batch ID: | 80397 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | PDS | Run ID: | ICP-MS5_170512A | Analysis Date: | 5/12/2017 2:51:00 PM | Prep Date: | 5/10/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|----------|-------|----------|-----------|------|----------|------|
| Antimony | 0.191 | 0.00250 | 0.200 | 0 | 95.7 | 80 | 120 | | | |
| Arsenic | 0.200 | 0.00500 | 0.200 | 0.0113 | 94.5 | 80 | 120 | | | |
| Barium | 0.247 | 0.0100 | 0.200 | 0.0539 | 96.6 | 80 | 120 | | | |
| Beryllium | 0.198 | 0.00100 | 0.200 | 0 | 99.2 | 80 | 120 | | | |
| Boron | 2.32 | 0.0300 | 0.200 | 2.19 | 64.9 | 80 | 120 | | | S |
| Cadmium | 0.186 | 0.00100 | 0.200 | 0.000976 | 92.6 | 80 | 120 | | | |
| Calcium | 60.1 | 0.300 | 5.00 | 59.7 | 6.67 | 80 | 120 | | | S |
| Chromium | 0.199 | 0.00500 | 0.200 | 0.00274 | 98.0 | 80 | 120 | | | |
| Cobalt | 0.577 | 0.00500 | 0.200 | 0.399 | 88.9 | 80 | 120 | | | |
| Lead | 0.206 | 0.00100 | 0.200 | 0.0115 | 97.3 | 80 | 120 | | | |
| Lithium | 0.210 | 0.0100 | 0.200 | 0.0163 | 97.1 | 80 | 120 | | | |
| Magnesium | 16.4 | 0.300 | 5.00 | 12.3 | 80.8 | 80 | 120 | | | |
| Molybdenum | 0.211 | 0.00500 | 0.200 | 0.0237 | 93.7 | 80 | 120 | | | |
| Potassium | 5.22 | 0.300 | 5.00 | 0.616 | 92.1 | 80 | 120 | | | |
| Selenium | 0.182 | 0.00500 | 0.200 | 0 | 91.0 | 80 | 120 | | | |
| Sodium | 137 | 0.300 | 5.00 | 141 | -82.5 | 80 | 120 | | | S |
| Thallium | 0.199 | 0.00150 | 0.200 | 0 | 99.3 | 80 | 120 | | | |

| | | | | | | | |
|-----------|-----------------------|-----------|------------------------|----------------|-----------------------------|------------|------------------|
| Sample ID | 1705091-03A MS | Batch ID: | 80397 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | MS | Run ID: | ICP-MS5_170512A | Analysis Date: | 5/12/2017 2:52:00 PM | Prep Date: | 5/10/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|----------|-------|----------|-----------|------|----------|------|
| Antimony | 0.191 | 0.00250 | 0.200 | 0 | 95.7 | 80 | 120 | | | |
| Arsenic | 0.197 | 0.00500 | 0.200 | 0.0113 | 93.0 | 80 | 120 | | | |
| Barium | 0.257 | 0.0100 | 0.200 | 0.0539 | 101 | 80 | 120 | | | |
| Beryllium | 0.194 | 0.00100 | 0.200 | 0 | 96.9 | 80 | 120 | | | |
| Boron | 1.36 | 0.0300 | 0.200 | 2.19 | -416 | 80 | 120 | | | S |
| Cadmium | 0.183 | 0.00100 | 0.200 | 0.000976 | 91.0 | 80 | 120 | | | |
| Calcium | 79.6 | 0.300 | 5.00 | 59.7 | 398 | 80 | 120 | | | S |
| Chromium | 0.192 | 0.00500 | 0.200 | 0.00274 | 94.7 | 80 | 120 | | | |
| Cobalt | 0.218 | 0.00500 | 0.200 | 0.399 | -90.7 | 80 | 120 | | | S |
| Lead | 0.197 | 0.00100 | 0.200 | 0.0115 | 92.9 | 80 | 120 | | | |
| Lithium | 0.207 | 0.0100 | 0.200 | 0.0163 | 95.3 | 80 | 120 | | | |
| Magnesium | 17.0 | 0.300 | 5.00 | 12.3 | 92.5 | 80 | 120 | | | |
| Molybdenum | 0.208 | 0.00500 | 0.200 | 0.0237 | 92.2 | 80 | 120 | | | |
| Potassium | 5.57 | 0.300 | 5.00 | 0.616 | 99.1 | 80 | 120 | | | |
| Selenium | 0.185 | 0.00500 | 0.200 | 0 | 92.6 | 80 | 120 | | | |
| Sodium | 86.6 | 0.300 | 5.00 | 141 | -1090 | 80 | 120 | | | S |
| Thallium | 0.200 | 0.00150 | 0.200 | 0 | 100 | 80 | 120 | | | |

| | | |
|--------------------|--|---|
| Qualifiers: | B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified |
|--------------------|--|---|

CLIENT: B-Environmental
Work Order: 1705092
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170512A

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|
| Sample ID | 1705091-03A MSD | Batch ID: | 80397 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | MSD | Run ID: | ICP-MS5_170512A | Analysis Date: | 5/12/2017 2:54:00 PM | Prep Date: | 5/10/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|----------|-------|----------|-----------|-------|----------|------|
| Antimony | 0.192 | 0.00250 | 0.200 | 0 | 95.9 | 80 | 120 | 0.177 | 15 | |
| Arsenic | 0.195 | 0.00500 | 0.200 | 0.0113 | 92.0 | 80 | 120 | 1.03 | 15 | |
| Barium | 0.255 | 0.0100 | 0.200 | 0.0539 | 101 | 80 | 120 | 0.640 | 15 | |
| Beryllium | 0.190 | 0.00100 | 0.200 | 0 | 94.9 | 80 | 120 | 2.12 | 15 | |
| Boron | 1.35 | 0.0300 | 0.200 | 2.19 | -421 | 80 | 120 | 0.646 | 15 | S |
| Cadmium | 0.183 | 0.00100 | 0.200 | 0.000976 | 90.8 | 80 | 120 | 0.239 | 15 | |
| Calcium | 79.5 | 0.300 | 5.00 | 59.7 | 396 | 80 | 120 | 0.163 | 15 | S |
| Chromium | 0.190 | 0.00500 | 0.200 | 0.00274 | 93.7 | 80 | 120 | 1.08 | 15 | |
| Cobalt | 0.215 | 0.00500 | 0.200 | 0.399 | -92.3 | 80 | 120 | 1.50 | 15 | S |
| Lead | 0.193 | 0.00100 | 0.200 | 0.0115 | 90.7 | 80 | 120 | 2.23 | 15 | |
| Lithium | 0.202 | 0.0100 | 0.200 | 0.0163 | 93.0 | 80 | 120 | 2.27 | 15 | |
| Magnesium | 17.0 | 0.300 | 5.00 | 12.3 | 93.5 | 80 | 120 | 0.291 | 15 | |
| Molybdenum | 0.206 | 0.00500 | 0.200 | 0.0237 | 91.3 | 80 | 120 | 0.873 | 15 | |
| Potassium | 5.52 | 0.300 | 5.00 | 0.616 | 98.1 | 80 | 120 | 0.890 | 15 | |
| Selenium | 0.183 | 0.00500 | 0.200 | 0 | 91.5 | 80 | 120 | 1.25 | 15 | |
| Sodium | 86.0 | 0.300 | 5.00 | 141 | -1100 | 80 | 120 | 0.723 | 15 | S |
| Thallium | 0.198 | 0.00150 | 0.200 | 0 | 99.2 | 80 | 120 | 1.00 | 15 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL

DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705092
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_170511A

The QC data in batch 80423 applies to the following samples: 1705092-01C, 1705092-02C, 1705092-03C, 1705092-04C, 1705092-05C, 1705092-06C, 1705092-07C

| | | | |
|---------------------------|---------------------------------|---|------------------------------|
| Sample ID MB-80423 | Batch ID: 80423 | TestNo: M2320 B | Units: mg/L @ pH 4.25 |
| SampType: MBLK | Run ID: TITRATOR_170511A | Analysis Date: 5/11/2017 11:48:00 AM | Prep Date: 5/11/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Total (As CaCO3) | <20.0 | 20.0 | | | | | | | | |

| | | | |
|----------------------------|---------------------------------|---|-----------------------------|
| Sample ID LCS-80423 | Batch ID: 80423 | TestNo: M2320 B | Units: mg/L @ pH 4.1 |
| SampType: LCS | Run ID: TITRATOR_170511A | Analysis Date: 5/11/2017 11:52:00 AM | Prep Date: 5/11/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Total (As CaCO3) | 52.4 | 20.0 | 50.00 | 0 | 105 | 74 | 129 | | | |

| | | | |
|----------------------------------|---------------------------------|---|------------------------------|
| Sample ID 1705092-01C-DUP | Batch ID: 80423 | TestNo: M2320 B | Units: mg/L @ pH 4.49 |
| SampType: DUP | Run ID: TITRATOR_170511A | Analysis Date: 5/11/2017 12:22:00 PM | Prep Date: 5/11/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | <20.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |

| | | | |
|----------------------------------|---------------------------------|--|------------------------------|
| Sample ID 1705109-04C-DUP | Batch ID: 80423 | TestNo: M2320 B | Units: mg/L @ pH 4.52 |
| SampType: DUP | Run ID: TITRATOR_170511A | Analysis Date: 5/11/2017 1:57:00 PM | Prep Date: 5/11/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | 132 | 20.0 | 0 | 127.8 | | | | 2.85 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | 132 | 20.0 | 0 | 127.8 | | | | 2.85 | 20 | |

| | | | | |
|--------------------|----|---|-----|---------------------------------------|
| Qualifiers: | B | Analyte detected in the associated Method Blank | DF | Dilution Factor |
| | J | Analyte detected between MDL and RL | MDL | Method Detection Limit |
| | ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| | RL | Reporting Limit | S | Spike Recovery outside control limits |
| | J | Analyte detected between SDL and RL | N | Parameter not NELAC certified |



2609 North River Road, Port Allen, Louisiana 70767
 1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01346

Request or PO Number: NA

Client Sample ID: S171291549 (Batch 54994)

ARS Sample ID: ARS1-17-01346-001

Sample Collection Date: 05/09/17

Date Received: 05/12/17

Sample Matrix: Aqueous

Report Date: 06/07/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.026 | 0.102 | 0.195 | 0.081 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 05/25/17 7:35 | CTRAMEL | 104% |
| Ra-228 | 0.328 | 0.684 | 1.180 | 0.549 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 05/18/17 12:42 | CTRAMEL | 111% |

Project Manager Review

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2609 North River Road, Port Allen, Louisiana 70767
 1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01346

Request or PO Number: NA

Client Sample ID: S171291552 (Batch 54994)

ARS Sample ID: ARS1-17-01346-002

Sample Collection Date: 05/09/17

Date Received: 05/12/17

Sample Matrix: Aqueous

Report Date: 06/07/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.419 | 0.191 | 0.201 | 0.082 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 05/25/17 7:35 | CTRAMEL | 106% |
| Ra-228 | 0.861 | 0.743 | 1.187 | 0.553 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 05/18/17 12:42 | CTRAMEL | 108% |

Project Manager Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

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ARS Sample Delivery Group: ARS1-17-01346

Request or PO Number: NA

Client Sample ID: S171291553 (Batch 54994)

ARS Sample ID: ARS1-17-01346-003

Sample Collection Date: 05/09/17

Date Received: 05/12/17

Sample Matrix: Aqueous

Report Date: 06/07/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.474 | 0.194 | 0.181 | 0.072 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 05/25/17 7:35 | CTRAMEL | 105% |
| Ra-228 | -0.050 | 0.628 | 1.142 | 0.530 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 05/18/17 12:42 | CTRAMEL | 109% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-01346

Request or PO Number: NA

Client Sample ID: S171291554 (Batch 54994)

ARS Sample ID: ARS1-17-01346-004

Sample Collection Date: 05/09/17

Date Received: 05/12/17

Sample Matrix: Aqueous

Report Date: 06/07/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.194 | 0.134 | 0.173 | 0.067 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 05/25/17 7:35 | CTRAMEL | 101% |
| Ra-228 | 0.500 | 0.647 | 1.082 | 0.500 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 05/18/17 12:42 | CTRAMEL | 103% |

Project Manager Review

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LELAP Certificate# 01949



2609 North River Road, Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01346

Request or PO Number: NA

Client Sample ID: S171291555 (Batch 54994)

ARS Sample ID: ARS1-17-01346-005

Sample Collection Date: 05/09/17

Date Received: 05/12/17

Sample Matrix: Aqueous

Report Date: 06/07/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.386 | 0.174 | 0.155 | 0.058 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 05/25/17 7:35 | CTRAMEL | 91% |
| Ra-228 | 0.414 | 0.963 | 1.652 | 0.784 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 05/18/17 12:42 | CTRAMEL | 92% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-01346

Request or PO Number: NA

Client Sample ID: S171291557 (Batch 54994)

ARS Sample ID: ARS1-17-01346-006

Sample Collection Date: 05/09/17

Date Received: 05/12/17

Sample Matrix: Aqueous

Report Date: 06/07/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.287 | 0.142 | 0.139 | 0.052 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 05/25/17 7:35 | CTRAMEL | 106% |
| Ra-228 | 0.866 | 0.886 | 1.452 | 0.685 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 05/18/17 12:42 | CTRAMEL | 112% |

Project Manager Review

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1 (800) 401-4277 FAX (225) 381-2996

QC Results Report

Sample Delivery Group: ARS1-17-01346

Laboratory Control Sample Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | LCS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|----------------------|
| ARS1-B17-00947 | LCS | RA-226 | 26.356 | 4.250 | 0.091 | 27.584 | N/A | pCi/L | ARS-010/EPA 903 | 5/25/17 9:34 | CT | 96 | 75%-125% |
| ARS1-B17-00947 | LCS | RA-228 | 36.438 | 6.063 | 1.033 | 39.784 | N/A | pCi/L | ARS-010/EPA 904 | 5/25/17 9:34 | CT | 92 | 75%-125% |

Blank Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|
| ARS1-B17-00947 | MBL | RA-226 | 0.166 | 0.083 | 0.084 | NA | | pCi/L | ARS-010/EPA 903 | 5/25/17 9:34 | CT |
| ARS1-B17-00947 | MBL | RA-228 | 0.093 | 0.330 | 0.580 | NA | U | pCi/L | ARS-010/EPA 904 | 5/25/17 9:34 | CT |

RER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | RER | RER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-00947 | LCS | RA-226 | 26.356 | 4.250 | 26.439 | 4.269 | N/A | pCi/L | ARS-010/EPA 903 | 5/25/17 9:34 | CT | 0.01 | < 1 |
| ARS1-B17-00947 | LCS | RA-228 | 36.438 | 6.063 | 35.410 | 5.889 | N/A | pCi/L | ARS-010/EPA 904 | 5/25/17 9:34 | CT | 0.09 | < 1 |

DER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | DER | DER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-00947 | LCS | RA-226 | 26.356 | 4.250 | 26.439 | 4.269 | N/A | pCi/L | ARS-010/EPA 903 | 5/25/17 9:34 | CT | 0.01 | < 3 |
| ARS1-B17-00947 | LCS | RA-228 | 36.438 | 6.063 | 35.410 | 5.889 | N/A | pCi/L | ARS-010/EPA 904 | 5/25/17 9:34 | CT | 0.12 | < 3 |


Project Manager Review

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LELAP Certificate# 01949

NELAP Certificate # E87558



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1 (800) 401-4277 • Fax (225) 381-2996

Notes (Case Narrative):

Comments:

- 1.0) All MDA/MDC values are calculated on a sample specific basis.
- 2.0) Soil and Sludge analysis are reported on a wet basis or an as received basis unless otherwise indicated.
- 3.0) Data in this report are within the limits of uncertainty specified in the reference method unless otherwise specified.
- 4.0) Modified analysis procedures are procedures that are modified to meet the certain specifications. An example may be the use of a water method to analyze a solid matrix due to the lack of an officially recognized procedure for the analysis of the solid matrix. Modified analyses are indicated by the subsequent addition of "m" to the procedure number (i.e. 900.0M).
- 5.0) Total activity is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring radioactive decay chains and other prominent radioactive nuclides. Total activity may be lower than the actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not representative of nuclides that emit solely alpha or beta particles.
- 6.0) Ra-228 is determined via secular equilibrium with its daughter, Actinium 228 (Gamma Spectroscopy only).
- 7.0) U-238 is determined via secular equilibrium with its daughter, Thorium 234 (Gamma Spectroscopy only).
- 8.0) All gamma spectroscopy was performed utilizing high purity germanium detectors (HPGe).
- 9.0) ARS makes every attempt to match sample density to calibrated density; however, in some cases, it is not practical or possible to do so and data results may be affected (Gamma Spectroscopy only).
- 10.0) Gamma spectroscopy results are calculated values based on the ORTEC® GammaVision ENV32 Analysis Engine.
- 11.0) ACLASS DOD and ISO 17025 certification applies only to the following analytes and methods: Gross Alpha and Gross Beta (EPA 900, SM7110B&C, SW846 9310); Radium 226 (EPA 903, EPA 903.1, SM 7500 Ra-B, SW846 9315); Radium 228 (EPA 904, SM 7500 Ra-B SW846 9320); Iodine-131(EPA 901.1); Uranium by ICPMS (EPA 200.8); Strontium 89/90 (EPA 905, Eichrom SRW01, HASL 300 Sr-03-RC); Tritium (EPA 906, EPA 906M); Gamma Emitters (EPA 901.1, SM7120B, HASL 300 Ga-01-R); Americium-241, Curium 242/244, Plutonium 239/240 and 241, Thorium 228/230/232, Uranium 234/233 and 238 (Eichrom ACW03 VBS); Lead 210 (HASL 300 Pb-01-RC, Eichrom OTW01); Polonium 210 (HASL 300 Po-01-RC, HASL 300 Po-02-RC); Technetium-99 (Eichrom TCW02, Eichrom TCS01M).

Method References:

- 1.0) EPA 600/4-80-032; Prescribed Procedures for the Measurements of Radioactivity in Drinking Water, August 1980.
- 2.0) Standard Methods for the Examination of Water and Wastewater (On-Line Edition)
- 3.0) EPA SW-846; Test Methods for Evaluating Solid Waste, (On-Line edition)
- 4.0) EPA 600/4/79-020; Methods for Chemical Analysis of Water and Waste, March 1983.
- 5.0) HASL 300; The Procedures Manual of the Environmental Measurements Laboratory, Volume I, 28th Edition February, 1997.

Definitions:

| | |
|----------|---|
| CRDL | Contract Required Detection Limit |
| CSU | Combined Standard Uncertainty |
| DLC | Decision Level Concentration (ANSI N42.23) or critical level |
| DO | Duplicate Original |
| DUP | Method Duplicate |
| LCS/LCSD | Laboratory Control Sample/Laboratory Control Sample Duplicate |
| MDA | Minimum Detectable Activity |
| MDC | (Minimum Detectable Concentration) minimum concentration of the analyte that ARS can detect utilizing the specific analysis |
| MBL | Method Blank |
| MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| N/A | Not Applicable |
| NP | Not Provided |
| NR | Not Referenced |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |

Data Qualifiers:

| | |
|----|--|
| B | The analyte is found in both the associated method blank and the sample. This flag indicates probable blank contamination. |
| D | Sample analysis accomplished through dilution. |
| J | The reported result is an estimated value above the limit of detection but outside of quantitation range (e.g., matrix interference was observed). |
| Q | One or more quality control criteria failed (e.g., LCS recovery, surrogate spike recovery, or CCV recovery). |
| U | Activity is below the MDC, MDA, MDL, or LOD |
| N | The analyte is a tentatively identified compound using mass spectrometry or any non-customer requested compounds that are tentatively identified. |
| * | LCS/LCSD or MS/MSD fails RPD criteria. |
| S | Spike |
| SC | Subcontracted out to another qualified laboratory |
| H | Holding time exceeded |

ARS-059-010
Revision: 9.1
Revision Date: 03-14-2017

LELAP Cert# 01949

NELAP Cert# E87558



Chain of Custody Record

Batch # **54994**

TEMP UN-C: **5.3**

Page **1** of **1**

Customer / Report Information
 Name: **Goletto Creek Power**
 Attention: **Rick Coleman**
 Address: **Goletto Creek Power**
 Billing Information: Check box if Billing is the same as Report Information
 Address: **Goletto Creek Power**
 Attention: **Rick Coleman**
 Project: **CCR Sampling**
 Comments: **CCR Sampling**
 PO#:

| Client / Field Sample ID | Collected | | Matrix | Container | Preservative | Request Analysis | Custody Seals Present |
|--------------------------|---------------|-------------|----------|-----------|--------------------------------------|--|--|
| | Date | Time | | | | | |
| Blank | 5-5-17 | 1445 | G | W | L 500 250 | Metals* Cl, F*, SO4 PH TDS Ba 226/228 AK: Tot. Can Dim Lit* | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Deep | | | | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| m-w-8 | | 1050 | | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| m-w-4 | | 1332 | | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| BV-15 | | 0908 | | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| BV-21 | | 0943 | | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| BV-22 | | 1017 | | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |

Required Turnaround: Routine (6-10 Business Days) Expedite / Rush: 1 Business Day 2 Business Days 3 Business Days 5 Business Days Other

Surcharge will apply to RUSH JAT Authorized By:

| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
|--------------------|---------------|-------------|--------------------|---------------|-------------|
| [Signature] | 5-5-17 | 1500 | [Signature] | 5/9/17 | 1500 |
| [Signature] | 5/9/17 | 1640 | [Signature] | 5-9-17 | 1640 |

1606 E Brazos Suite A, Victoria, Texas 77901 Ph: (361) 579-8222 Fax: (361) 572-4115 Toll Free 1-800-469-8223 Form #1000-0-2 REV 1.2 Email: kdenviro@suddenlinkmail.com www.denvironmental.net
 Fluoride: 0.25 mg/L; Metabolites: B, Ca, Sb, As, Br, Be, Cd, Cr, Co, Pb, Li, Mo, S, Ti, Mg, K, Na, + Hg

BatchNo: 55103

SAMPLE REPORT



T104704328-17-14

Business

Coletto Creek Power - R Coleman
PO Box 8
Fannin TX 77960
Att: Rick Coleman



Laboratory

B Environmental, LLC.
1606 E Brazos, Suite D
Victoria TX 77901
ph. 361-572-8224

Reference Information

Project: CCR Sampling
Printed: Tuesday, June 13, 2017

Re: Coletto Creek Power - R Coleman

Dear: Rick Coleman

Attached are the results for sample(s) received on 5/10/2017

The analytical results relate only to the samples tested.
All supporting quality data meets the requirements of NELAC unless noted in the case narrative section of the report.

This report contains 44 pages (including the cover page)

If you have any questions concerning this report, please do not hesitate to call (361) 572-8224 or Fax us at (361) 572-4115

Respectfully Submitted,

Kevin Baros
Laboratory Director



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B Environmental, LLC.
1606 E Brazos, Suite D

BatchNo: 55103

Victoria TX 77901

Batch No: 55103

Sample Receipt Checklist

Date Received: 5/10/2017

Project: CCR Sampling Received By: Woodruff

Login completed by: Woodruff 5/10/2017
Signature LoginDate:

Carrier Name Walk In

- Shipping container/cooler in good condition? YES NO Not Present
- Custody seals intact on shipping container/cooler? YES NO Not Present
- Custody seals intact on sample bottles? YES NO Not Present
- Chain of Custody present? YES NO
- Chain of Custody signed when relinquished and received? YES NO
- Chain of Custody agrees with sample labels? YES NO
- Samples in proper container/bottles? YES NO
- Sample containers intact? YES NO
- Sufficient sample volume for indicated tests? YES NO
- All samples received within holding times? YES NO
- Container/Temp Blank - temperature in compliance? YES NO >0 <6 °C On Ice
- Water - VOA vials have zero headspace? Bubble < 6mm? YES NO No VOA Vials submitted
- Water - pH acceptable upon receipt? YES NO Not Applicable

*TEMP 5.6/5.4 pH Adjusted? No Checked By L. Vahrenkamp

Any No and/or N/A (not applicable) response must be detailed in the comments section below.

Client contacted Person Contacted
Contacted by: Date Contacted:

Regarding

Comments
Therm. #3. HNO3 Lot# 2-42-12.

Corrective Action



B Environmental, LLC. 1606 E Brazos, Suite D Victoria TX 77901

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BatchNo:

55103

1606 E Brazos, Suite D

Victoria TX 77901

Sample Report Information



| | | | | | |
|-------------------|-------------------|-------------------|--------------|-----------------|---------------|
| Sample ID: | S171301614 | Client ID: | MW-10 | Sampler: | Client |
|-------------------|-------------------|-------------------|--------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman
Study: Water

Batch No: 55103
Sampled: 5/9/2017 3:40 PM

Project: CCR Sampling

Location: MW #10

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 82 | mg/L | EPA 300 | K Baros | 5/12/2017 0:10 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 234 | mg/L | SM 2320 B | | 5/11/2017 13:22 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 5/11/2017 13:22 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 234 | mg/L | SM 2320 B | | 5/11/2017 13:22 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.83 | mg/L | EPA 300 | K Baros | 5/12/2017 0:10 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.24 | SU | SM 4500-H+B | C Watts | 5/10/2017 17:00 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 582 | mg/L | SM2540C | C Watts | 5/15/2017 12:00 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 5/15/2017 13:32 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 96 | mg/L | EPA 300 | K Baros | 5/12/2017 0:10 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 6/2/2017 7:38 | | | | | <input checked="" type="checkbox"/> | ARS International |



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BatchNo:

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Victoria TX 77901

Sample Report Information



| | | |
|------------------------------|--------------------------|------------------------|
| Sample ID: S171301619 | Client ID: MW-10A | Sampler: Client |
|------------------------------|--------------------------|------------------------|

Client: Coletto Creek Power - R Coleman
Study: Water
Project: CCR Sampling
Location: MW 10A
Notes:

Batch No: 55103
Sampled: 5/9/2017 4:12 PM
Type: Grab
Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 360 | mg/L | EPA 300 | K Baros | 5/12/2017 0:48 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 321 | mg/L | SM 2320 B | | 5/11/2017 13:35 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 5/11/2017 13:35 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 321 | mg/L | SM 2320 B | | 5/11/2017 13:35 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.45 | mg/L | EPA 300 | K Baros | 5/12/2017 0:48 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 6.75 | SU | SM 4500-H+B | C Watts | 5/10/2017 17:00 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 1232 | mg/L | SM2540C | C Watts | 5/15/2017 12:00 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 5/15/2017 13:34 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 84 | mg/L | EPA 300 | K Baros | 5/12/2017 0:48 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 6/2/2017 7:37 | | | | | | <input checked="" type="checkbox"/> ARS International |



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BatchNo:

55103

1606 E Brazos, Suite D

Victoria TX 77901

Sample Report Information



| | | | | | |
|-------------------|-------------------|-------------------|-------------|-----------------|---------------|
| Sample ID: | S171301620 | Client ID: | MW-9 | Sampler: | Client |
|-------------------|-------------------|-------------------|-------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman

Batch No: 55103

Study: Water

Sampled: 5/10/2017

8:18 AM

Project: CCR Sampling

Location: MW #9

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 66 | mg/L | EPA 300 | K Baros | 5/11/2017 15:17 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 133 | mg/L | SM 2320 B | | 5/11/2017 13:46 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 5/11/2017 13:46 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 133 | mg/L | SM 2320 B | | 5/11/2017 13:46 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 1.29 | mg/L | EPA 300 | K Baros | 5/11/2017 15:17 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.37 | SU | SM 4500-H+B | C Watts | 5/10/2017 17:00 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 410 | mg/L | SM2540C | C Watts | 5/17/2017 13:30 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 5/15/2017 13:36 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 59 | mg/L | EPA 300 | K Baros | 5/11/2017 15:17 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 6/2/2017 7:37 | | | | | <input checked="" type="checkbox"/> | ARS International |



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77901

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BatchNo:

55103

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Victoria TX 77901

Sample Report Information



| | | | |
|------------------------------|-------------------------|-----------------|---------------|
| Sample ID: S171301621 | Client ID: MW-9A | Sampler: | Client |
|------------------------------|-------------------------|-----------------|---------------|

Client: Coieto Creek Power - R Coleman

Batch No: 55103

Study: Water

Sampled: 5/10/2017

8:58 AM

Project: CCR Sampling

Location: MW 9A

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 64 | mg/L | EPA 300 | K Baros | 5/11/2017 15:55 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 128 | mg/L | SM 2320 B | | 5/11/2017 13:51 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 5/11/2017 13:51 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 128 | mg/L | SM 2320 B | | 5/11/2017 13:51 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 1.28 | mg/L | EPA 300 | K Baros | 5/11/2017 15:55 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.46 | SU | SM 4500-H+B | C Watts | 5/10/2017 17:00 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 404 | mg/L | SM2540C | C Watts | 5/15/2017 12:00 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 5/15/2017 12:51 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 65 | mg/L | EPA 300 | K Baros | 5/11/2017 15:55 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 6/2/2017 7:37 | | | | | | <input checked="" type="checkbox"/> ARS International |



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Sample Report Information



| | | | | | |
|------------|------------|------------|------|----------|--------|
| Sample ID: | S171301622 | Client ID: | MW 5 | Sampler: | Client |
|------------|------------|------------|------|----------|--------|

Client: Coletto Creek Power - R Coleman
Study: Water

Batch No: 55103
Sampled: 5/10/2017 11:12 AM

Project: CCR Sampling

Location: MW #5

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 139 | mg/L | EPA 300 | K Baros | 5/11/2017 17:49 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 276 | mg/L | SM 2320 B | | 5/11/2017 14:07 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 5/11/2017 14:07 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 276 | mg/L | SM 2320 B | | 5/11/2017 14:07 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.54 | mg/L | EPA 300 | K Baros | 5/11/2017 17:49 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 6.95 | SU | SM 4500-H+B | C Watts | 5/10/2017 17:00 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 900 | mg/L | SM2540C | C Watts | 5/17/2017 13:30 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 5/15/2017 13:38 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 183 | mg/L | EPA 300 | K Baros | 5/11/2017 17:49 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 6/2/2017 7:38 | | | | | | <input checked="" type="checkbox"/> ARS International |



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Sample Report Information



| | | | | | |
|------------|------------|------------|------|----------|--------|
| Sample ID: | S171301623 | Client ID: | PS-3 | Sampler: | Client |
|------------|------------|------------|------|----------|--------|

Client: Coleta Creek Power - R Coleman
 Study: Water
 Project: CCR Sampling
 Location: PS 3
 Notes:

Batch No: 55103
 Sampled: 5/10/2017 1:59 PM
 Type: Grab
 Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 46 | mg/L | EPA 300 | K Baros | 5/11/2017 18:27 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 155 | mg/L | SM 2320 B | | 5/11/2017 14:13 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 5/11/2017 14:13 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 155 | mg/L | SM 2320 B | | 5/11/2017 14:13 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.96 | mg/L | EPA 300 | K Baros | 5/11/2017 18:27 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.42 | SU | SM 4500-H+B | C Watts | 5/10/2017 17:00 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 368 | mg/L | SM2540C | C Watts | 5/17/2017 13:30 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 5/15/2017 13:40 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 32 | mg/L | EPA 300 | K Baros | 5/11/2017 18:27 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 6/6/2017 7:35 | | | | | | <input checked="" type="checkbox"/> ARS International |



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Sample Report Information



| | | | | | |
|------------|------------|------------|-------|----------|--------|
| Sample ID: | S171301625 | Client ID: | MW-11 | Sampler: | Client |
|------------|------------|------------|-------|----------|--------|

Client: Coletto Creek Power - R Coleman

Batch No: 55103

Study: Water

Sampled: 5/10/2017

1:25 PM

Project: CCR Sampling

Location: MW #11

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 55 | mg/L | EPA 300 | K Baros | 5/11/2017 19:05 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 146 | mg/L | SM 2320 B | | 5/11/2017 14:19 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 5/11/2017 14:19 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 146 | mg/L | SM 2320 B | | 5/11/2017 14:19 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.82 | mg/L | EPA 300 | K Baros | 5/11/2017 19:05 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.45 | SU | SM 4500-H+B | C Watts | 5/10/2017 17:00 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 394 | mg/L | SM2540C | C Watts | 5/17/2017 13:30 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 5/15/2017 13:42 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 61 | mg/L | EPA 300 | K Baros | 5/11/2017 19:05 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 6/6/2017 7:35 | | | | | | <input checked="" type="checkbox"/> ARS International |



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Sample Report Information



| | | | | | |
|------------|------------|------------|-----|----------|--------|
| Sample ID: | S171301626 | Client ID: | DUP | Sampler: | Client |
|------------|------------|------------|-----|----------|--------|

Client: Coletto Creek Power - R Coleman

Batch No: 55103

Study: Water

Sampled: 5/10/2017

1:25 PM

Project: CCR Sampling

Location: Dup

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 139 | mg/L | EPA 300 | K Baros | 5/11/2017 19:44 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 280 | mg/L | SM 2320 B | | 5/11/2017 14:30 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 5/11/2017 14:30 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 280 | mg/L | SM 2320 B | | 5/11/2017 14:30 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.52 | mg/L | EPA 300 | K Baros | 5/11/2017 19:44 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 6.91 | SU | SM 4500-H+B | C Watts | 5/10/2017 17:00 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 864 | mg/L | SM2540C | C Watts | 5/17/2017 13:30 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 5/15/2017 13:44 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 184 | mg/L | EPA 300 | K Baros | 5/11/2017 19:44 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 6/6/2017 7:35 | | | | | | <input checked="" type="checkbox"/> ARS International |



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QA Summary Report

| Parameter | ID | Result | Ref Value | Amt Added | LOQ | Qualifier | Control | Flag | Comments |
|------------------------------------|------------|-----------|-----------|-----------|------|-----------|----------|----------|-------------------------------|
| .Method Blank | | | | | | | | | |
| - Chloride, IC | Q171422331 | <1mg/L | 0 | | | 1 | 1 | | Blank Acceptable. |
| 5/11/2017 14:01 | | | | | | | | | |
| Fluoride, IC | Q171422331 | <0.25mg/L | 0 | | 0.25 | | 0.25 | | Blank Acceptable. |
| 5/11/2017 14:01 | | | | | | | | | |
| Solids, Total Dissolved | Q171361012 | <2.5mg/L | 0 | | 10 | | 25 | | Blank Acceptable. |
| 5/15/2017 12:00 | | | | | | | | | |
| Solids, Total Dissolved | Q171381221 | <2.5mg/L | 0 | | 10 | | 25 | | Blank Acceptable. |
| 5/17/2017 13:30 | | | | | | | | | |
| Sulfate, IC | Q171422331 | <1mg/L | 0 | | | 1 | 1 | | Blank Acceptable. |
| 5/11/2017 14:01 | | | | | | | | | |
| Duplicate | | | | | | | | | |
| pH (Standard Units) | Q171310838 | 7.49SU | 7.46 | | | 2 | 0.4% | 20 | Duplicate RPD Acceptable. |
| 5/10/2017 17:00 | | | | | | | | | |
| Solids, Total Dissolved | Q171381222 | 592mg/L | 586 | | 10 | 1.0% | 20 | | Duplicate RPD Acceptable. |
| 5/17/2017 13:30 | | | | | | | | | |
| Solids, Total Dissolved | Q17136101B | 408mg/L | 404 | | 10 | 1.0% | 20 | | Duplicate RPD Acceptable. |
| 5/15/2017 12:00 | | | | | | | | | |
| Laboratory Control Standard | | | | | | | | | |
| - Chloride, IC | Q171422333 | 25.9mg/L | 25 | | | 1 | 103.6% | 80 - 120 | Standard Recovery Acceptable. |
| 5/11/2017 14:39 | | | | | | | 3.5% | 20 | Standard RPD Acceptable. |
| Fluoride, IC | Q171422333 | 2.11mg/L | 2 | | 0.25 | 105.5% | 80 - 120 | | Standard Recovery Acceptable. |
| 5/11/2017 14:39 | | | | | | 5.4% | 20 | | Standard RPD Acceptable. |
| pH (Standard Units) | Q171310837 | 7.01SU | 7 | | | 2 | 100.1% | 80 - 120 | Standard Recovery Acceptable. |
| 5/10/2017 17:00 | | | | | | | 0.1% | 20 | Standard RPD Acceptable. |
| Sulfate, IC | Q171422333 | 26.4mg/L | 25 | | | 1 | 105.6% | 80 - 120 | Standard Recovery Acceptable. |
| 5/11/2017 14:39 | | | | | | | 5.4% | 20 | Standard RPD Acceptable. |
| Matrix Spike | | | | | | | | | |
| - Chloride, IC | Q17142233A | 81.9mg/L | 82.1 | 25 | | 1 | 99.2% | 80 - 120 | Spike Recovery Acceptable. |
| 5/11/2017 16:33 | | | | | | | 0.2% | 20 | Spike RPD Acceptable. |
| Fluoride, IC | Q17142233A | 2.98mg/L | 3.15 | 2 | 0.25 | 91.5% | 80 - 120 | | Spike Recovery Acceptable. |
| 5/11/2017 16:33 | | | | | | 5.5% | 20 | | Spike RPD Acceptable. |
| Sulfate, IC | Q17142233A | 84.2mg/L | 83.9 | 25 | | 1 | 101.2% | 70 - 130 | Spike Recovery Acceptable. |
| 5/11/2017 16:33 | | | | | | | 0.4% | 20 | Spike RPD Acceptable. |
| Matrix Spike Dup | | | | | | | | | |
| - Chloride, IC | Q17142233B | 82.4mg/L | 82.1 | 25 | | 1 | 101.2% | 80 - 120 | Spike Recovery Acceptable. |
| 5/11/2017 17:11 | | | | | | | 0.4% | 20 | Spike RPD Acceptable. |
| Fluoride, IC | Q17142233B | 3.01mg/L | 3.15 | 2 | 0.25 | 93.0% | 80 - 120 | | Spike Recovery Acceptable. |
| 5/11/2017 17:11 | | | | | | 4.5% | 20 | | Spike RPD Acceptable. |
| Sulfate, IC | Q17142233B | 84.4mg/L | 83.9 | 25 | | 1 | 102.0% | 70 - 130 | Spike Recovery Acceptable. |
| 5/11/2017 17:11 | | | | | | | 0.6% | 20 | Spike RPD Acceptable. |



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Flag and Qualifier Legend

| | | |
|--|--|---|
|  <i>Negative - Result Detected</i> | <i>MDL = Method Detection Limit</i> | <i>DF = Dilution Factor</i> |
|  <i>Caution - Problem Detected</i> | <i>LOQ = Limit of Quantitation</i> | <i>j = Analyte detected between MDL and LOQ</i> |
|  <i>Warning - Null Value</i> | <i>S = surrogate standard out of limit</i> | <i>H = sample out of hold time</i> |
|  MS, MSD, RPD- Failure may occur due to matrix interference, data released per QA plan | | |

Tuesday, June 13, 2017

B Environmental - LDMS QA Report Summary

Note:

THANK YOU!



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DHL Analytical, Inc.

Date: 17-May-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Lab Order: 1705109

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition and Standard Methods.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives except where noted in the following. For Total Metals Analysis, the recoveries of three analytes for the Matrix Spike and Matrix Spike Duplicate (1705109-04 MS/MSD) were below the method control limits. These are flagged accordingly in the QC Summary Report. These analytes were within method control limits in the associated LCS. No further corrective action was taken.

The Total and Dissolved Metals Analysis, the results Dissolved Lithium/Molybdenum for five samples were slightly higher than the results of Total Lithium/Molybdenum. The results were within acceptable analytical variation limits. No further corrective action was taken.

DHL Analytical, Inc.

Date: 17-May-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR Sampling (55103)
Lab Order: 1705109

Client Sample ID: MW-10
Lab ID: 1705109-01
Alternate ID: S171301614
Collection Date: 05/10/17 03:40 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: CVD | | | |
| Dissolved Lithium | 0.0118 | 0.00500 | 0.0100 | | mg/L | 1 | 05/12/17 12:41 PM |
| Dissolved Molybdenum | 0.0983 | 0.00200 | 0.00500 | | mg/L | 1 | 05/12/17 12:41 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 05/15/17 01:32 PM |
| Arsenic | 0.0146 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 01:32 PM |
| Barium | 0.0554 | 0.00300 | 0.0100 | | mg/L | 1 | 05/15/17 01:32 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/15/17 01:32 PM |
| Boron | 7.32 | 0.200 | 0.600 | | mg/L | 20 | 05/16/17 11:46 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/15/17 01:32 PM |
| Calcium | 56.1 | 2.00 | 6.00 | | mg/L | 20 | 05/16/17 11:46 AM |
| Chromium | 0.00533 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 01:32 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 05/15/17 01:32 PM |
| Lead | 0.000687 | 0.000300 | 0.00100 | J | mg/L | 1 | 05/15/17 01:32 PM |
| Lithium | 0.0122 | 0.00500 | 0.0100 | | mg/L | 1 | 05/15/17 01:32 PM |
| Magnesium | 9.56 | 0.100 | 0.300 | | mg/L | 1 | 05/15/17 01:32 PM |
| Molybdenum | 0.102 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 01:32 PM |
| Potassium | 1.12 | 0.100 | 0.300 | | mg/L | 1 | 05/15/17 01:32 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 01:32 PM |
| Sodium | 133 | 2.00 | 6.00 | | mg/L | 20 | 05/16/17 11:46 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 05/15/17 01:32 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 05/11/17 04:00 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 234 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/11/17 01:22 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/11/17 01:22 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/11/17 01:22 PM |
| Alkalinity, Total (As CaCO3) | 234 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/11/17 01:22 PM |

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 17-May-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (55103)
Lab Order: 1705109

Client Sample ID: MW-10A
Lab ID: 1705109-02
Alternate ID: S171301619
Collection Date: 05/10/17 04:12 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|-----------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: CVD | | | |
| Dissolved Lithium | 0.0231 | 0.00500 | 0.0100 | | mg/L | 1 | 05/12/17 12:42 PM |
| Dissolved Molybdenum | 0.00508 | 0.00200 | 0.00500 | | mg/L | 1 | 05/12/17 12:42 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 05/15/17 01:34 PM |
| Arsenic | 0.00526 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 01:34 PM |
| Barium | 0.0988 | 0.00300 | 0.0100 | | mg/L | 1 | 05/15/17 01:34 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/15/17 01:34 PM |
| Boron | 0.416 | 0.0100 | 0.0300 | | mg/L | 1 | 05/16/17 12:26 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/15/17 01:34 PM |
| Calcium | 170 | 2.00 | 6.00 | | mg/L | 20 | 05/16/17 11:48 AM |
| Chromium | 0.00563 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 01:34 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 05/15/17 01:34 PM |
| Lead | 0.000653 | 0.000300 | 0.00100 | J | mg/L | 1 | 05/15/17 01:34 PM |
| Lithium | 0.0228 | 0.00500 | 0.0100 | | mg/L | 1 | 05/15/17 01:34 PM |
| Magnesium | 30.5 | 2.00 | 6.00 | | mg/L | 20 | 05/16/17 11:48 AM |
| Molybdenum | 0.00581 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 01:34 PM |
| Potassium | 1.89 | 0.100 | 0.300 | | mg/L | 1 | 05/15/17 01:34 PM |
| Selenium | 0.00229 | 0.00200 | 0.00500 | J | mg/L | 1 | 05/15/17 01:34 PM |
| Sodium | 172 | 2.00 | 6.00 | | mg/L | 20 | 05/16/17 11:48 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 05/15/17 01:34 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.000800 | 0.000800 | 0.000200 | | mg/L | 1 | 05/11/17 04:03 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 321 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 05/11/17 01:35 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 05/11/17 01:35 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 05/11/17 01:35 PM |
| Alkalinity, Total (As CaCO3) | 321 | 20.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 05/11/17 01:35 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern J Analyte detected between MDL and RL
 MDL Method Detection Limit ND Not Detected at the Method Detection Limit
 RL Reporting Limit S Spike Recovery outside control limits Page 2 of 8

DHL Analytical, Inc.

Date: 17-May-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (55103)
Lab Order: 1705109

Client Sample ID: MW-9
Lab ID: 1705109-03
Alternate ID: S171301620
Collection Date: 05/10/17 08:18 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|-----------|----------------|---------|---------------------|---------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: CVD | | | |
| Dissolved Lithium | <0.00500 | 0.00500 | 0.0100 | | mg/L | 1 | 05/12/17 12:44 PM |
| Dissolved Molybdenum | 0.0925 | 0.00200 | 0.00500 | | mg/L | 1 | 05/12/17 12:44 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 05/15/17 01:36 PM |
| Arsenic | 0.00996 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 01:36 PM |
| Barium | 0.105 | 0.00300 | 0.0100 | | mg/L | 1 | 05/15/17 01:36 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/15/17 01:36 PM |
| Boron | 3.16 | 0.100 | 0.300 | | mg/L | 10 | 05/16/17 11:50 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/15/17 01:36 PM |
| Calcium | 52.7 | 1.00 | 3.00 | | mg/L | 10 | 05/16/17 11:50 AM |
| Chromium | 0.00264 | 0.00200 | 0.00500 | J | mg/L | 1 | 05/15/17 01:36 PM |
| Cobalt | 0.00302 | 0.00300 | 0.00500 | J | mg/L | 1 | 05/15/17 01:36 PM |
| Lead | 0.00433 | 0.000300 | 0.00100 | | mg/L | 1 | 05/15/17 01:36 PM |
| Lithium | 0.00533 | 0.00500 | 0.0100 | J | mg/L | 1 | 05/15/17 01:36 PM |
| Magnesium | 6.86 | 0.100 | 0.300 | | mg/L | 1 | 05/15/17 01:36 PM |
| Molybdenum | 0.0900 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 01:36 PM |
| Potassium | 0.996 | 0.100 | 0.300 | | mg/L | 1 | 05/15/17 01:36 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 01:36 PM |
| Sodium | 61.7 | 1.00 | 3.00 | | mg/L | 10 | 05/16/17 11:50 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 05/15/17 01:36 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.000800 | 0.000800 | 0.00200 | | mg/L | 1 | 05/11/17 04:05 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 133 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 05/11/17 01:46 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 05/11/17 01:46 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 05/11/17 01:46 PM |
| Alkalinity, Total (As CaCO3) | 133 | 20.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 05/11/17 01:46 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern J Analyte detected between MDL and RL
 MDL Method Detection Limit ND Not Detected at the Method Detection Limit
 RL Reporting Limit S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 17-May-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (55103)
Lab Order: 1705109

Client Sample ID: MW-9A
Lab ID: 1705109-04
Alternate ID: S171301621
Collection Date: 05/10/17 08:58 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|---------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: CVD | | | |
| Dissolved Lithium | 0.00560 | 0.00500 | 0.0100 | J | mg/L | 1 | 05/12/17 12:37 PM |
| Dissolved Molybdenum | 0.0796 | 0.00200 | 0.00500 | | mg/L | 1 | 05/12/17 12:37 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 05/15/17 12:51 PM |
| Arsenic | 0.00990 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 12:51 PM |
| Barium | 0.0988 | 0.00300 | 0.0100 | | mg/L | 1 | 05/15/17 12:51 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/15/17 12:51 PM |
| Boron | 3.43 | 0.100 | 0.300 | | mg/L | 10 | 05/16/17 11:42 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/15/17 12:51 PM |
| Calcium | 65.3 | 1.00 | 3.00 | | mg/L | 10 | 05/16/17 11:42 AM |
| Chromium | 0.00289 | 0.00200 | 0.00500 | J | mg/L | 1 | 05/15/17 12:51 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 05/15/17 12:51 PM |
| Lead | 0.00114 | 0.000300 | 0.00100 | | mg/L | 1 | 05/15/17 12:51 PM |
| Lithium | 0.00630 | 0.00500 | 0.0100 | J | mg/L | 1 | 05/15/17 12:51 PM |
| Magnesium | 8.32 | 0.100 | 0.300 | | mg/L | 1 | 05/15/17 12:51 PM |
| Molybdenum | 0.0806 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 12:51 PM |
| Potassium | 0.848 | 0.100 | 0.300 | | mg/L | 1 | 05/15/17 12:51 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 12:51 PM |
| Sodium | 63.3 | 1.00 | 3.00 | | mg/L | 10 | 05/16/17 11:42 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 05/15/17 12:51 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 05/11/17 04:07 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 128 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 05/11/17 01:51 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 05/11/17 01:51 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 05/11/17 01:51 PM |
| Alkalinity, Total (As CaCO3) | 128 | 20.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 05/11/17 01:51 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 17-May-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR Sampling (55103)
Lab Order: 1705109

Client Sample ID: MW-5
Lab ID: 1705109-05
Alternate ID: S171301622
Collection Date: 05/10/17 11:12 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|-----------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: CVD | | | |
| Dissolved Lithium | 0.0190 | 0.00500 | 0.0100 | | mg/L | 1 | 05/12/17 12:46 PM |
| Dissolved Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/12/17 12:46 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 05/15/17 01:38 PM |
| Arsenic | 0.00955 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 01:38 PM |
| Barium | 0.0706 | 0.00300 | 0.0100 | | mg/L | 1 | 05/15/17 01:38 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/15/17 01:38 PM |
| Boron | 0.115 | 0.0100 | 0.0300 | | mg/L | 1 | 05/16/17 12:28 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/15/17 01:38 PM |
| Calcium | 114 | 2.00 | 6.00 | | mg/L | 20 | 05/16/17 11:52 AM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 01:38 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 05/15/17 01:38 PM |
| Lead | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/15/17 01:38 PM |
| Lithium | 0.0179 | 0.00500 | 0.0100 | | mg/L | 1 | 05/15/17 01:38 PM |
| Magnesium | 22.1 | 0.100 | 0.300 | | mg/L | 1 | 05/15/17 01:38 PM |
| Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 01:38 PM |
| Potassium | 1.53 | 0.100 | 0.300 | | mg/L | 1 | 05/15/17 01:38 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 01:38 PM |
| Sodium | 127 | 2.00 | 6.00 | | mg/L | 20 | 05/16/17 11:52 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 05/15/17 01:38 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.000800 | 0.000800 | 0.000200 | | mg/L | 1 | 05/11/17 04:23 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 276 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/11/17 02:07 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/11/17 02:07 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/11/17 02:07 PM |
| Alkalinity, Total (As CaCO3) | 276 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/11/17 02:07 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern J Analyte detected between MDL and RL
 MDL Method Detection Limit ND Not Detected at the Method Detection Limit
 RL Reporting Limit S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 17-May-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (55103)
Lab Order: 1705109

Client Sample ID: PS-3
Lab ID: 1705109-06
Alternate ID: S171301623
Collection Date: 05/10/17 01:57 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|------|---------------|----|---------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | | | | Analyst: CVD |
| Dissolved Lithium | 0.00850 | 0.00500 | 0.0100 | J | mg/L | 1 | 05/12/17 12:48 PM |
| Dissolved Molybdenum | 0.00520 | 0.00200 | 0.00500 | | mg/L | 1 | 05/12/17 12:48 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | | | | Analyst: SP |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 05/15/17 01:40 PM |
| Arsenic | 0.00887 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 01:40 PM |
| Barium | 0.105 | 0.00300 | 0.0100 | | mg/L | 1 | 05/15/17 01:40 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/15/17 01:40 PM |
| Boron | 1.45 | 0.100 | 0.300 | | mg/L | 10 | 05/16/17 11:54 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/15/17 01:40 PM |
| Calcium | 40.0 | 1.00 | 3.00 | | mg/L | 10 | 05/16/17 11:54 AM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 01:40 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 05/15/17 01:40 PM |
| Lead | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/15/17 01:40 PM |
| Lithium | 0.00907 | 0.00500 | 0.0100 | J | mg/L | 1 | 05/15/17 01:40 PM |
| Magnesium | 3.70 | 0.100 | 0.300 | | mg/L | 1 | 05/15/17 01:40 PM |
| Molybdenum | 0.00524 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 01:40 PM |
| Potassium | 2.25 | 0.100 | 0.300 | | mg/L | 1 | 05/15/17 01:40 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 01:40 PM |
| Sodium | 65.0 | 1.00 | 3.00 | | mg/L | 10 | 05/16/17 11:54 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 05/15/17 01:40 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | | | Analyst: AH |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 05/11/17 04:25 PM |
| ALKALINITY | | M2320 B | | | | | Analyst: BTJ |
| Alkalinity, Bicarbonate (As CaCO3) | 155 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 05/11/17 02:13 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 05/11/17 02:13 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 05/11/17 02:13 PM |
| Alkalinity, Total (As CaCO3) | 155 | 20.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 05/11/17 02:13 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern
 J Analyte detected between MDL and RL
 MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 17-May-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (55103)
Lab Order: 1705109

Client Sample ID: MW-11
Lab ID: 1705109-07
Alternate ID: S171301625
Collection Date: 05/10/17 01:25 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|------|----------------|----|---------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | | | | Analyst: CVD |
| Dissolved Lithium | 0.0122 | 0.00500 | 0.0100 | | mg/L | 1 | 05/12/17 12:49 PM |
| Dissolved Molybdenum | 0.00866 | 0.00200 | 0.00500 | | mg/L | 1 | 05/12/17 12:49 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | | | | Analyst: SP |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 05/15/17 01:42 PM |
| Arsenic | 0.0156 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 01:42 PM |
| Barium | 0.0899 | 0.00300 | 0.0100 | | mg/L | 1 | 05/15/17 01:42 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/15/17 01:42 PM |
| Boron | 1.35 | 0.100 | 0.300 | | mg/L | 10 | 05/16/17 11:56 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/15/17 01:42 PM |
| Calcium | 64.1 | 1.00 | 3.00 | | mg/L | 10 | 05/16/17 11:56 AM |
| Chromium | 0.00259 | 0.00200 | 0.00500 | J | mg/L | 1 | 05/15/17 01:42 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 05/15/17 01:42 PM |
| Lead | 0.00239 | 0.000300 | 0.00100 | | mg/L | 1 | 05/15/17 01:42 PM |
| Lithium | 0.0125 | 0.00500 | 0.0100 | | mg/L | 1 | 05/15/17 01:42 PM |
| Magnesium | 5.21 | 0.100 | 0.300 | | mg/L | 1 | 05/15/17 01:42 PM |
| Molybdenum | 0.00820 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 01:42 PM |
| Potassium | 1.65 | 0.100 | 0.300 | | mg/L | 1 | 05/15/17 01:42 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 01:42 PM |
| Sodium | 63.3 | 1.00 | 3.00 | | mg/L | 10 | 05/16/17 11:56 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 05/15/17 01:42 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | | | Analyst: AH |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 05/11/17 04:28 PM |
| ALKALINITY | | M2320 B | | | | | Analyst: BTJ |
| Alkalinity, Bicarbonate (As CaCO3) | 146 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 05/11/17 02:19 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 05/11/17 02:19 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 05/11/17 02:19 PM |
| Alkalinity, Total (As CaCO3) | 146 | 20.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 05/11/17 02:19 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern
 J Analyte detected between MDL and RL
 MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 17-May-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (55103)
Lab Order: 1705109

Client Sample ID: DUP
Lab ID: 1705109-08
Alternate ID: S171301626
Collection Date: 05/10/17
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|-----------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: CVD | | | |
| Dissolved Lithium | 0.0192 | 0.00500 | 0.0100 | | mg/L | 1 | 05/12/17 12:51 PM |
| Dissolved Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/12/17 12:51 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 05/15/17 01:44 PM |
| Arsenic | 0.00957 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 01:44 PM |
| Barium | 0.0703 | 0.00300 | 0.0100 | | mg/L | 1 | 05/15/17 01:44 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/15/17 01:44 PM |
| Boron | 0.113 | 0.0100 | 0.0300 | | mg/L | 1 | 05/16/17 12:30 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/15/17 01:44 PM |
| Calcium | 115 | 2.00 | 6.00 | | mg/L | 20 | 05/16/17 11:58 AM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 01:44 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 05/15/17 01:44 PM |
| Lead | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/15/17 01:44 PM |
| Lithium | 0.0183 | 0.00500 | 0.0100 | | mg/L | 1 | 05/15/17 01:44 PM |
| Magnesium | 22.1 | 0.100 | 0.300 | | mg/L | 1 | 05/15/17 01:44 PM |
| Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 01:44 PM |
| Potassium | 1.54 | 0.100 | 0.300 | | mg/L | 1 | 05/15/17 01:44 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 01:44 PM |
| Sodium | 130 | 2.00 | 6.00 | | mg/L | 20 | 05/16/17 11:58 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 05/15/17 01:44 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.000800 | 0.000800 | 0.000200 | | mg/L | 1 | 05/11/17 04:30 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 280 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 05/11/17 02:30 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 05/11/17 02:30 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 05/11/17 02:30 PM |
| Alkalinity, Total (As CaCO3) | 280 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 05/11/17 02:30 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 17-May-17

CLIENT: B-Environmental
Work Order: 1705109
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_170511A

The QC data in batch 80421 applies to the following samples: 1705109-01A, 1705109-02A, 1705109-03A, 1705109-04A, 1705109-05A, 1705109-06A, 1705109-07A, 1705109-08A

| | | | |
|---------------------------|----------------------------------|--|-----------------------------|
| Sample ID MB-80421 | Batch ID: 80421 | TestNo: SW7470A | Units: mg/L |
| SampType: MBLK | Run ID: CETAC2_HG_170511A | Analysis Date: 5/11/2017 3:38:16 PM | Prep Date: 5/11/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|------------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | <0.0000800 | 0.000200 | | | | | | | | |

| | | | |
|----------------------------|----------------------------------|--|-----------------------------|
| Sample ID LCS-80421 | Batch ID: 80421 | TestNo: SW7470A | Units: mg/L |
| SampType: LCS | Run ID: CETAC2_HG_170511A | Analysis Date: 5/11/2017 3:42:48 PM | Prep Date: 5/11/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00200 | 0.000200 | 0.00200 | 0 | 100 | 85 | 115 | | | |

| | | | |
|-----------------------------|----------------------------------|--|-----------------------------|
| Sample ID LCSD-80421 | Batch ID: 80421 | TestNo: SW7470A | Units: mg/L |
| SampType: LCSD | Run ID: CETAC2_HG_170511A | Analysis Date: 5/11/2017 3:45:04 PM | Prep Date: 5/11/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00203 | 0.000200 | 0.00200 | 0 | 102 | 85 | 115 | 1.49 | 15 | |

| | | | |
|---------------------------------|----------------------------------|--|-----------------------------|
| Sample ID 1705109-04A SD | Batch ID: 80421 | TestNo: SW7470A | Units: mg/L |
| SampType: SD | Run ID: CETAC2_HG_170511A | Analysis Date: 5/11/2017 4:09:59 PM | Prep Date: 5/11/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|-----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | <0.000400 | 0.00100 | 0 | 0 | | | | 0 | 10 | |

| | | | |
|----------------------------------|----------------------------------|--|-----------------------------|
| Sample ID 1705109-04A PDS | Batch ID: 80421 | TestNo: SW7470A | Units: mg/L |
| SampType: PDS | Run ID: CETAC2_HG_170511A | Analysis Date: 5/11/2017 4:12:15 PM | Prep Date: 5/11/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00243 | 0.000200 | 0.00250 | 0 | 97.2 | 85 | 115 | | | |

| | | | |
|---------------------------------|----------------------------------|--|-----------------------------|
| Sample ID 1705109-04A MS | Batch ID: 80421 | TestNo: SW7470A | Units: mg/L |
| SampType: MS | Run ID: CETAC2_HG_170511A | Analysis Date: 5/11/2017 4:14:31 PM | Prep Date: 5/11/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00201 | 0.000200 | 0.00200 | 0 | 101 | 80 | 120 | | | |

| | | | |
|----------------------------------|----------------------------------|--|-----------------------------|
| Sample ID 1705109-04A MSD | Batch ID: 80421 | TestNo: SW7470A | Units: mg/L |
| SampType: MSD | Run ID: CETAC2_HG_170511A | Analysis Date: 5/11/2017 4:16:47 PM | Prep Date: 5/11/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|-------|----------|------|
| Mercury | 0.00203 | 0.000200 | 0.00200 | 0 | 102 | 80 | 120 | 0.990 | 15 | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705109
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170515B

The QC data in batch 80418 applies to the following samples: 1705109-01A, 1705109-02A, 1705109-03A, 1705109-04A, 1705109-05A, 1705109-06A, 1705109-07A, 1705109-08A

| | | | |
|---------------------------|--------------------------------|---|-----------------------------|
| Sample ID MB-80418 | Batch ID: 80418 | TestNo: SW6020A | Units: mg/L |
| SampType: MBLK | Run ID: ICP-MS4_170515B | Analysis Date: 5/15/2017 12:43:00 PM | Prep Date: 5/11/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|-----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | <0.000800 | 0.00250 | | | | | | | | |
| Arsenic | <0.00200 | 0.00500 | | | | | | | | |
| Barium | <0.00300 | 0.0100 | | | | | | | | |
| Beryllium | <0.000300 | 0.00100 | | | | | | | | |
| Cadmium | <0.000300 | 0.00100 | | | | | | | | |
| Calcium | <0.100 | 0.300 | | | | | | | | |
| Chromium | <0.00200 | 0.00500 | | | | | | | | |
| Cobalt | <0.00300 | 0.00500 | | | | | | | | |
| Lead | <0.000300 | 0.00100 | | | | | | | | |
| Lithium | <0.00500 | 0.0100 | | | | | | | | |
| Magnesium | <0.100 | 0.300 | | | | | | | | |
| Molybdenum | <0.00200 | 0.00500 | | | | | | | | |
| Potassium | <0.100 | 0.300 | | | | | | | | |
| Selenium | <0.00200 | 0.00500 | | | | | | | | |
| Thallium | <0.000500 | 0.00150 | | | | | | | | |

| | | | |
|----------------------------|--------------------------------|---|-----------------------------|
| Sample ID LCS-80418 | Batch ID: 80418 | TestNo: SW6020A | Units: mg/L |
| SampType: LCS | Run ID: ICP-MS4_170515B | Analysis Date: 5/15/2017 12:45:00 PM | Prep Date: 5/11/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.190 | 0.00250 | 0.200 | 0 | 95.1 | 80 | 120 | | | |
| Arsenic | 0.193 | 0.00500 | 0.200 | 0 | 96.4 | 80 | 120 | | | |
| Barium | 0.191 | 0.0100 | 0.200 | 0 | 95.5 | 80 | 120 | | | |
| Beryllium | 0.183 | 0.00100 | 0.200 | 0 | 91.6 | 80 | 120 | | | |
| Cadmium | 0.189 | 0.00100 | 0.200 | 0 | 94.6 | 80 | 120 | | | |
| Calcium | 4.66 | 0.300 | 5.00 | 0 | 93.2 | 80 | 120 | | | |
| Chromium | 0.195 | 0.00500 | 0.200 | 0 | 97.3 | 80 | 120 | | | |
| Cobalt | 0.192 | 0.00500 | 0.200 | 0 | 95.9 | 80 | 120 | | | |
| Lead | 0.192 | 0.00100 | 0.200 | 0 | 96.0 | 80 | 120 | | | |
| Lithium | 0.185 | 0.0100 | 0.200 | 0 | 92.6 | 80 | 120 | | | |
| Magnesium | 4.79 | 0.300 | 5.00 | 0 | 95.7 | 80 | 120 | | | |
| Molybdenum | 0.188 | 0.00500 | 0.200 | 0 | 93.8 | 80 | 120 | | | |
| Potassium | 4.87 | 0.300 | 5.00 | 0 | 97.5 | 80 | 120 | | | |
| Selenium | 0.192 | 0.00500 | 0.200 | 0 | 96.0 | 80 | 120 | | | |
| Thallium | 0.193 | 0.00150 | 0.200 | 0 | 96.6 | 80 | 120 | | | |

| | | |
|--------------------|--|---|
| Qualifiers: | B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified |
|--------------------|--|---|

CLIENT: B-Environmental
Work Order: 1705109
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170515B

| | | | | | | | |
|-----------|-------------------|-----------|------------------------|----------------|------------------------------|------------|------------------|
| Sample ID | LCSD-80418 | Batch ID: | 80418 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | LCSD | Run ID: | ICP-MS4_170515B | Analysis Date: | 5/15/2017 12:47:00 PM | Prep Date: | 5/11/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | 0.188 | 0.00250 | 0.200 | 0 | 94.2 | 80 | 120 | 0.908 | 15 | |
| Arsenic | 0.193 | 0.00500 | 0.200 | 0 | 96.7 | 80 | 120 | 0.334 | 15 | |
| Barium | 0.190 | 0.0100 | 0.200 | 0 | 95.0 | 80 | 120 | 0.466 | 15 | |
| Beryllium | 0.184 | 0.00100 | 0.200 | 0 | 92.0 | 80 | 120 | 0.439 | 15 | |
| Cadmium | 0.190 | 0.00100 | 0.200 | 0 | 94.8 | 80 | 120 | 0.204 | 15 | |
| Calcium | 4.62 | 0.300 | 5.00 | 0 | 92.4 | 80 | 120 | 0.833 | 15 | |
| Chromium | 0.194 | 0.00500 | 0.200 | 0 | 96.8 | 80 | 120 | 0.485 | 15 | |
| Cobalt | 0.193 | 0.00500 | 0.200 | 0 | 96.4 | 80 | 120 | 0.520 | 15 | |
| Lead | 0.190 | 0.00100 | 0.200 | 0 | 94.8 | 80 | 120 | 1.22 | 15 | |
| Lithium | 0.183 | 0.0100 | 0.200 | 0 | 91.7 | 80 | 120 | 1.00 | 15 | |
| Magnesium | 4.74 | 0.300 | 5.00 | 0 | 94.7 | 80 | 120 | 1.02 | 15 | |
| Molybdenum | 0.187 | 0.00500 | 0.200 | 0 | 93.4 | 80 | 120 | 0.502 | 15 | |
| Potassium | 4.85 | 0.300 | 5.00 | 0 | 96.9 | 80 | 120 | 0.552 | 15 | |
| Selenium | 0.193 | 0.00500 | 0.200 | 0 | 96.6 | 80 | 120 | 0.619 | 15 | |
| Thallium | 0.191 | 0.00150 | 0.200 | 0 | 95.4 | 80 | 120 | 1.25 | 15 | |

| | | | | | | | |
|-----------|-----------------------|-----------|------------------------|----------------|------------------------------|------------|------------------|
| Sample ID | 1705109-04A SD | Batch ID: | 80418 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | SD | Run ID: | ICP-MS4_170515B | Analysis Date: | 5/15/2017 12:53:00 PM | Prep Date: | 5/11/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|----------|---------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | <0.00400 | 0.0125 | 0 | 0 | | | | 0 | 10 | |
| Arsenic | <0.0100 | 0.0250 | 0 | 0.00990 | | | | 0 | 10 | |
| Barium | 0.0982 | 0.0500 | 0 | 0.0988 | | | | 0.645 | 10 | |
| Beryllium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Cadmium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Chromium | <0.0100 | 0.0250 | 0 | 0.00289 | | | | 0 | 10 | |
| Cobalt | <0.0150 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Lead | <0.00150 | 0.00500 | 0 | 0.00114 | | | | 0 | 10 | |
| Lithium | <0.0250 | 0.0500 | 0 | 0.00630 | | | | 0 | 10 | |
| Magnesium | 8.52 | 1.50 | 0 | 8.32 | | | | 2.39 | 10 | |
| Molybdenum | 0.0803 | 0.0250 | 0 | 0.0806 | | | | 0.383 | 10 | |
| Potassium | 0.902 | 1.50 | 0 | 0.848 | | | | 6.19 | 10 | |
| Selenium | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Thallium | <0.00250 | 0.00750 | 0 | 0 | | | | 0 | 10 | |

| | | | | | | | |
|-----------|------------------------|-----------|------------------------|----------------|-----------------------------|------------|------------------|
| Sample ID | 1705109-04A PDS | Batch ID: | 80418 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | PDS | Run ID: | ICP-MS4_170515B | Analysis Date: | 5/15/2017 1:13:00 PM | Prep Date: | 5/11/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.188 | 0.00250 | 0.200 | 0 | 93.8 | 80 | 120 | | | |
| Arsenic | 0.210 | 0.00500 | 0.200 | 0.00990 | 100 | 80 | 120 | | | |

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
 J Analyte detected between MDL and RL MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
 RL Reporting Limit S Spike Recovery outside control limits
 J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705109
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170515B

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|
| Sample ID | 1705109-04A PDS | Batch ID: | 80418 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | PDS | Run ID: | ICP-MS4_170515B | Analysis Date: | 5/15/2017 1:13:00 PM | Prep Date: | 5/11/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Barium | 0.290 | 0.0100 | 0.200 | 0.0988 | 95.5 | 80 | 120 | | | |
| Beryllium | 0.189 | 0.00100 | 0.200 | 0 | 94.5 | 80 | 120 | | | |
| Cadmium | 0.190 | 0.00100 | 0.200 | 0 | 95.0 | 80 | 120 | | | |
| Chromium | 0.206 | 0.00500 | 0.200 | 0.00289 | 102 | 80 | 120 | | | |
| Cobalt | 0.199 | 0.00500 | 0.200 | 0 | 99.7 | 80 | 120 | | | |
| Lead | 0.198 | 0.00100 | 0.200 | 0.00114 | 98.5 | 80 | 120 | | | |
| Lithium | 0.191 | 0.0100 | 0.200 | 0.00630 | 92.2 | 80 | 120 | | | |
| Magnesium | 12.6 | 0.300 | 5.00 | 8.32 | 85.3 | 80 | 120 | | | |
| Molybdenum | 0.267 | 0.00500 | 0.200 | 0.0806 | 93.3 | 80 | 120 | | | |
| Potassium | 5.84 | 0.300 | 5.00 | 0.848 | 99.8 | 80 | 120 | | | |
| Selenium | 0.190 | 0.00500 | 0.200 | 0 | 94.8 | 80 | 120 | | | |
| Thallium | 0.200 | 0.00150 | 0.200 | 0 | 99.8 | 80 | 120 | | | |

| | | | | | | | |
|-----------|----------------|-----------|-----------------|----------------|----------------------|------------|-----------|
| Sample ID | 1705109-04A MS | Batch ID: | 80418 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | MS | Run ID: | ICP-MS4_170515B | Analysis Date: | 5/15/2017 1:15:00 PM | Prep Date: | 5/11/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.192 | 0.00250 | 0.200 | 0 | 96.2 | 80 | 120 | | | |
| Arsenic | 0.205 | 0.00500 | 0.200 | 0.00990 | 97.4 | 80 | 120 | | | |
| Barium | 0.283 | 0.0100 | 0.200 | 0.0988 | 91.9 | 80 | 120 | | | |
| Beryllium | 0.180 | 0.00100 | 0.200 | 0 | 90.2 | 80 | 120 | | | |
| Cadmium | 0.183 | 0.00100 | 0.200 | 0 | 91.6 | 80 | 120 | | | |
| Calcium | 65.0 | 0.300 | 5.00 | 63.0 | 41.0 | 80 | 120 | | | S |
| Chromium | 0.194 | 0.00500 | 0.200 | 0.00289 | 95.6 | 80 | 120 | | | |
| Cobalt | 0.192 | 0.00500 | 0.200 | 0 | 96.0 | 80 | 120 | | | |
| Lead | 0.194 | 0.00100 | 0.200 | 0.00114 | 96.4 | 80 | 120 | | | |
| Lithium | 0.188 | 0.0100 | 0.200 | 0.00630 | 90.7 | 80 | 120 | | | |
| Magnesium | 12.6 | 0.300 | 5.00 | 8.32 | 85.9 | 80 | 120 | | | |
| Molybdenum | 0.268 | 0.00500 | 0.200 | 0.0806 | 93.5 | 80 | 120 | | | |
| Potassium | 5.64 | 0.300 | 5.00 | 0.848 | 95.9 | 80 | 120 | | | |
| Selenium | 0.184 | 0.00500 | 0.200 | 0 | 92.2 | 80 | 120 | | | |
| Thallium | 0.196 | 0.00150 | 0.200 | 0 | 97.8 | 80 | 120 | | | |

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|
| Sample ID | 1705109-04A MSD | Batch ID: | 80418 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | MSD | Run ID: | ICP-MS4_170515B | Analysis Date: | 5/15/2017 1:17:00 PM | Prep Date: | 5/11/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|-----------|--------|---------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | 0.192 | 0.00250 | 0.200 | 0 | 95.8 | 80 | 120 | 0.421 | 15 | |
| Arsenic | 0.207 | 0.00500 | 0.200 | 0.00990 | 98.5 | 80 | 120 | 1.02 | 15 | |
| Barium | 0.285 | 0.0100 | 0.200 | 0.0988 | 93.0 | 80 | 120 | 0.775 | 15 | |
| Beryllium | 0.182 | 0.00100 | 0.200 | 0 | 91.1 | 80 | 120 | 1.05 | 15 | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental

Work Order: 1705109

Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170515B

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|
| Sample ID | 1705109-04A MSD | Batch ID: | 80418 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | MSD | Run ID: | ICP-MS4_170515B | Analysis Date: | 5/15/2017 1:17:00 PM | Prep Date: | 5/11/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|-------|----------|------|
| Cadmium | 0.184 | 0.00100 | 0.200 | 0 | 91.9 | 80 | 120 | 0.317 | 15 | |
| Calcium | 65.0 | 0.300 | 5.00 | 63.0 | 41.4 | 80 | 120 | 0.029 | 15 | S |
| Chromium | 0.195 | 0.00500 | 0.200 | 0.00289 | 96.2 | 80 | 120 | 0.591 | 15 | |
| Cobalt | 0.194 | 0.00500 | 0.200 | 0 | 96.9 | 80 | 120 | 0.895 | 15 | |
| Lead | 0.195 | 0.00100 | 0.200 | 0.00114 | 96.8 | 80 | 120 | 0.322 | 15 | |
| Lithium | 0.187 | 0.0100 | 0.200 | 0.00630 | 90.3 | 80 | 120 | 0.329 | 15 | |
| Magnesium | 12.6 | 0.300 | 5.00 | 8.32 | 85.1 | 80 | 120 | 0.326 | 15 | |
| Molybdenum | 0.269 | 0.00500 | 0.200 | 0.0806 | 94.1 | 80 | 120 | 0.439 | 15 | |
| Potassium | 5.62 | 0.300 | 5.00 | 0.848 | 95.5 | 80 | 120 | 0.360 | 15 | |
| Selenium | 0.186 | 0.00500 | 0.200 | 0 | 92.8 | 80 | 120 | 0.649 | 15 | |
| Thallium | 0.196 | 0.00150 | 0.200 | 0 | 97.8 | 80 | 120 | 0.040 | 15 | |

| | | | | |
|--------------------|----|---|-----|---------------------------------------|
| Qualifiers: | B | Analyte detected in the associated Method Blank | DF | Dilution Factor |
| | J | Analyte detected between MDL and RL | MDL | Method Detection Limit |
| | ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| | RL | Reporting Limit | S | Spike Recovery outside control limits |
| | J | Analyte detected between SDL and RL | N | Parameter not NELAC certified |

CLIENT: B-Environmental
Work Order: 1705109
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170516A

The QC data in batch 80418 applies to the following samples: 1705109-01A, 1705109-02A, 1705109-03A, 1705109-04A, 1705109-05A, 1705109-06A, 1705109-07A, 1705109-08A

| | | | | | | | | | | |
|---------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID MB-80418 | Batch ID: 80418 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: MBLK | Run ID: ICP-MS4_170516A | Analysis Date: 5/16/2017 11:34:00 AM | Prep Date: 5/11/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | <0.0100 | 0.0300 | | | | | | | | |
| Sodium | <0.100 | 0.300 | | | | | | | | |

| | | | | | | | | | | |
|----------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID LCS-80418 | Batch ID: 80418 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: LCS | Run ID: ICP-MS4_170516A | Analysis Date: 5/16/2017 11:36:00 AM | Prep Date: 5/11/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 0.198 | 0.0300 | 0.200 | 0 | 99.0 | 80 | 120 | | | |
| Sodium | 4.84 | 0.300 | 5.00 | 0 | 96.7 | 80 | 120 | | | |

| | | | | | | | | | | |
|-----------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|-------|----------|------|
| Sample ID LCSD-80418 | Batch ID: 80418 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: LCSD | Run ID: ICP-MS4_170516A | Analysis Date: 5/16/2017 11:38:00 AM | Prep Date: 5/11/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 0.196 | 0.0300 | 0.200 | 0 | 97.8 | 80 | 120 | 1.21 | 15 | |
| Sodium | 4.80 | 0.300 | 5.00 | 0 | 95.9 | 80 | 120 | 0.828 | 15 | |

| | | | | | | | | | | |
|---------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|-------|----------|------|
| Sample ID 1705109-04A SD | Batch ID: 80418 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: SD | Run ID: ICP-MS4_170516A | Analysis Date: 5/16/2017 11:44:00 AM | Prep Date: 5/11/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 3.67 | 1.50 | 0 | 3.43 | | | | 6.63 | 10 | |
| Calcium | 65.8 | 15.0 | 0 | 65.3 | | | | 0.880 | 10 | |
| Sodium | 63.6 | 15.0 | 0 | 63.2 | | | | 0.545 | 10 | |

| | | | | | | | | | | |
|----------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1705109-04A PDS | Batch ID: 80418 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: PDS | Run ID: ICP-MS4_170516A | Analysis Date: 5/16/2017 12:00:00 PM | Prep Date: 5/11/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 5.38 | 0.300 | 2.00 | 3.43 | 97.2 | 80 | 120 | | | |
| Calcium | 106 | 3.00 | 50.0 | 65.3 | 81.0 | 80 | 120 | | | |
| Sodium | 107 | 3.00 | 50.0 | 63.3 | 88.4 | 80 | 120 | | | |

| | | | | | | | | | | |
|---------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1705109-04A MS | Batch ID: 80418 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: MS | Run ID: ICP-MS4_170516A | Analysis Date: 5/16/2017 12:02:00 PM | Prep Date: 5/11/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 3.50 | 0.300 | 0.200 | 3.43 | 35.2 | 80 | 120 | | | S |
| Sodium | 65.5 | 3.00 | 5.00 | 63.3 | 44.4 | 80 | 120 | | | S |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705109
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170516A

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|-----------------------|------------|-----------|
| Sample ID | 1705109-04A MSD | Batch ID: | 80418 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | MSD | Run ID: | ICP-MS4_170516A | Analysis Date: | 5/16/2017 12:04:00 PM | Prep Date: | 5/11/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|-------|----------|------|
| Boron | 3.51 | 0.300 | 0.200 | 3.43 | 36.8 | 80 | 120 | 0.092 | 15 | S |
| Sodium | 65.2 | 3.00 | 5.00 | 63.3 | 37.9 | 80 | 120 | 0.499 | 15 | S |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL

DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental

Work Order: 1705109

Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170512A

The QC data in batch 80419 applies to the following samples: 1705109-01B, 1705109-02B, 1705109-03B, 1705109-04B, 1705109-05B, 1705109-06B, 1705109-07B, 1705109-08B

| | | | |
|---------------------------|--------------------------------|---|-----------------------------|
| Sample ID MB-80419 | Batch ID: 80419 | TestNo: SW6020A | Units: mg/L |
| SampType: MBLK | Run ID: ICP-MS5_170512A | Analysis Date: 5/12/2017 12:30:00 PM | Prep Date: 5/11/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Lithium | <0.00500 | 0.0100 | | | | | | | | |
| Molybdenum | <0.00200 | 0.00500 | | | | | | | | |

| | | | |
|----------------------------|--------------------------------|---|-----------------------------|
| Sample ID LCS-80419 | Batch ID: 80419 | TestNo: SW6020A | Units: mg/L |
| SampType: LCS | Run ID: ICP-MS5_170512A | Analysis Date: 5/12/2017 12:32:00 PM | Prep Date: 5/11/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Lithium | 0.190 | 0.0100 | 0.200 | 0 | 95.2 | 80 | 120 | | | |
| Molybdenum | 0.192 | 0.00500 | 0.200 | 0 | 95.8 | 80 | 120 | | | |

| | | | |
|-----------------------------|--------------------------------|---|-----------------------------|
| Sample ID LCSD-80419 | Batch ID: 80419 | TestNo: SW6020A | Units: mg/L |
| SampType: LCSD | Run ID: ICP-MS5_170512A | Analysis Date: 5/12/2017 12:34:00 PM | Prep Date: 5/11/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Lithium | 0.193 | 0.0100 | 0.200 | 0 | 96.3 | 80 | 120 | 1.10 | 15 | |
| Molybdenum | 0.194 | 0.00500 | 0.200 | 0 | 97.2 | 80 | 120 | 1.45 | 15 | |

| | | | |
|---------------------------------|--------------------------------|---|-----------------------------|
| Sample ID 1705109-04B SD | Batch ID: 80419 | TestNo: SW6020A | Units: mg/L |
| SampType: SD | Run ID: ICP-MS5_170512A | Analysis Date: 5/12/2017 12:39:00 PM | Prep Date: 5/11/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|---------|--------|-----------|---------|------|----------|-----------|------|----------|------|
| Lithium | <0.0250 | 0.0500 | 0 | 0.00560 | | | | 0 | 10 | |
| Molybdenum | 0.0781 | 0.0250 | 0 | 0.0796 | | | | 1.86 | 10 | |

| | | | |
|----------------------------------|--------------------------------|---|-----------------------------|
| Sample ID 1705109-04B PDS | Batch ID: 80419 | TestNo: SW6020A | Units: mg/L |
| SampType: PDS | Run ID: ICP-MS5_170512A | Analysis Date: 5/12/2017 12:53:00 PM | Prep Date: 5/11/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Lithium | 0.192 | 0.0100 | 0.200 | 0.00560 | 93.4 | 80 | 120 | | | |
| Molybdenum | 0.262 | 0.00500 | 0.200 | 0.0796 | 91.4 | 80 | 120 | | | |

| | | | |
|---------------------------------|--------------------------------|---|-----------------------------|
| Sample ID 1705109-04B MS | Batch ID: 80419 | TestNo: SW6020A | Units: mg/L |
| SampType: MS | Run ID: ICP-MS5_170512A | Analysis Date: 5/12/2017 12:55:00 PM | Prep Date: 5/11/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Dissolved Lithium | 0.200 | 0.0100 | 0.200 | 0.00560 | 97.1 | 80 | 120 | | | |
| Dissolved Molybdenum | 0.273 | 0.00500 | 0.200 | 0.0796 | 96.9 | 80 | 120 | | | |

Qualifiers:

- B Analyte detected in the associated Method Blank
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- J Analyte detected between SDL and RL

- DF Dilution Factor
- MDL Method Detection Limit
- R RPD outside accepted control limits
- S Spike Recovery outside control limits
- N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705109
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170512A

| Sample ID | 1705109-04B MSD | Batch ID: | 80419 | TestNo: | SW6020A | Units: | mg/L | | | |
|----------------------|-----------------|-----------|-----------------|----------------|-----------------------|------------|-----------|-------|----------|------|
| SampType: | MSD | Run ID: | ICP-MS5_170512A | Analysis Date: | 5/12/2017 12:56:00 PM | Prep Date: | 5/11/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Dissolved Lithium | 0.202 | 0.0100 | 0.200 | 0.00560 | 98.0 | 80 | 120 | 0.861 | 15 | |
| Dissolved Molybdenum | 0.272 | 0.00500 | 0.200 | 0.0796 | 96.1 | 80 | 120 | 0.572 | 15 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705109
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_170511A

The QC data in batch 80423 applies to the following samples: 1705109-01C, 1705109-02C, 1705109-03C, 1705109-04C, 1705109-05C, 1705109-06C, 1705109-07C, 1705109-08C

| | | | |
|---------------------------|---------------------------------|---|------------------------------|
| Sample ID MB-80423 | Batch ID: 80423 | TestNo: M2320 B | Units: mg/L @ pH 4.25 |
| SampType: MBLK | Run ID: TITRATOR_170511A | Analysis Date: 5/11/2017 11:48:00 AM | Prep Date: 5/11/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Total (As CaCO3) | <20.0 | 20.0 | | | | | | | | |

| | | | |
|----------------------------|---------------------------------|---|-----------------------------|
| Sample ID LCS-80423 | Batch ID: 80423 | TestNo: M2320 B | Units: mg/L @ pH 4.1 |
| SampType: LCS | Run ID: TITRATOR_170511A | Analysis Date: 5/11/2017 11:52:00 AM | Prep Date: 5/11/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Total (As CaCO3) | 52.4 | 20.0 | 50.00 | 0 | 105 | 74 | 129 | | | |

| | | | |
|----------------------------------|---------------------------------|---|------------------------------|
| Sample ID 1705092-01C-DUP | Batch ID: 80423 | TestNo: M2320 B | Units: mg/L @ pH 4.49 |
| SampType: DUP | Run ID: TITRATOR_170511A | Analysis Date: 5/11/2017 12:22:00 PM | Prep Date: 5/11/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | <20.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |

| | | | |
|----------------------------------|---------------------------------|--|------------------------------|
| Sample ID 1705109-04C-DUP | Batch ID: 80423 | TestNo: M2320 B | Units: mg/L @ pH 4.52 |
| SampType: DUP | Run ID: TITRATOR_170511A | Analysis Date: 5/11/2017 1:57:00 PM | Prep Date: 5/11/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | 132 | 20.0 | 0 | 127.8 | | | | 2.85 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | 132 | 20.0 | 0 | 127.8 | | | | 2.85 | 20 | |

- | | |
|--|---|
| <p>Qualifiers:</p> <ul style="list-style-type: none"> B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | <ul style="list-style-type: none"> DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified |
|--|---|



2609 North River Road, Port Allen, Louisiana 70767
 1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01347

Request or PO Number: N/A

Client Sample ID: S171301614 (Batch 55103)

ARS Sample ID: ARS1-17-01347-001

Sample Collection Date: 05/09/17

Date Received: 05/12/17

Sample Matrix: Aqueous

Report Date: 06/07/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.306 | 0.180 | 0.235 | 0.098 | NP | Q | pCi/L | ARS-010/EPA 903.0/904.0 | 06/02/17 7:38 | SCAUSEY | 88% |
| Ra-228 | 0.582 | 0.758 | 1.267 | 0.587 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 05/26/17 12:23 | SCAUSEY | 85% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-01347

Request or PO Number: N/A

Client Sample ID: S171301619 (Batch 55103)

ARS Sample ID: ARS1-17-01347-002

Sample Collection Date: 05/09/17

Date Received: 05/12/17

Sample Matrix: Aqueous

Report Date: 06/07/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.270 | 0.171 | 0.223 | 0.091 | NP | Q | pCi/L | ARS-010/EPA 903.0/904.0 | 06/02/17 7:37 | SCAUSEY | 93% |
| Ra-228 | 0.524 | 0.759 | 1.279 | 0.596 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 05/26/17 12:23 | SCAUSEY | 90% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-01347

Request or PO Number: N/A

Client Sample ID: S171301620 (Batch 55103)

ARS Sample ID: ARS1-17-01347-003

Sample Collection Date: 05/10/17

Date Received: 05/12/17

Sample Matrix: Aqueous

Report Date: 06/07/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.285 | 0.164 | 0.200 | 0.081 | NP | Q | pCi/L | ARS-010/EPA 903.0/904.0 | 06/02/17 7:37 | SCAUSEY | 97% |
| Ra-228 | 0.195 | 0.677 | 1.191 | 0.553 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 05/26/17 12:23 | SCAUSEY | 91% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-01347

Request or PO Number: N/A

Client Sample ID: S171301621 (Batch 55103)

ARS Sample ID: ARS1-17-01347-004

Sample Collection Date: 05/10/17

Date Received: 05/12/17

Sample Matrix: Aqueous

Report Date: 06/07/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.134 | 0.124 | 0.184 | 0.072 | NP | U,Q | pCi/L | ARS-010/EPA 903.0/904.0 | 06/02/17 7:37 | SCAUSEY | 97% |
| Ra-228 | 0.483 | 0.736 | 1.246 | 0.580 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 05/26/17 12:23 | SCAUSEY | 89% |

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ARS Sample Delivery Group: ARS1-17-01347

Request or PO Number: N/A

Client Sample ID: S171301622 (Batch 55103)

ARS Sample ID: ARS1-17-01347-005

Sample Collection Date: 05/10/17

Date Received: 05/12/17

Sample Matrix: Aqueous

Report Date: 06/07/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.306 | 0.153 | 0.148 | 0.054 | NP | Q | pCi/L | ARS-010/EPA 903.0/904.0 | 06/02/17 7:38 | SCAUSEY | 94% |
| Ra-228 | 0.309 | 0.679 | 1.176 | 0.545 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 05/26/17 12:23 | SCAUSEY | 88% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-01347

Request or PO Number: N/A

Client Sample ID: S171301623 (Batch 55103)

ARS Sample ID: ARS1-17-01347-006

Sample Collection Date: 05/10/17

Date Received: 05/12/17

Sample Matrix: Aqueous

Report Date: 06/07/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.090 | 0.101 | 0.159 | 0.060 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/06/17 7:35 | SCAUSEY | 102% |
| Ra-228 | 0.022 | 0.616 | 1.111 | 0.515 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 05/30/17 12:46 | SCAUSEY | 94% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-01347

Request or PO Number: N/A

Client Sample ID: S171301625 (Batch 55103)

ARS Sample ID: ARS1-17-01347-007

Sample Collection Date: 05/10/17

Date Received: 05/12/17

Sample Matrix: Aqueous

Report Date: 06/07/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.130 | 0.114 | 0.163 | 0.062 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/06/17 7:35 | SCAUSEY | 91% |
| Ra-228 | 0.326 | 0.670 | 1.157 | 0.535 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 05/30/17 12:46 | SCAUSEY | 82% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-01347

Request or PO Number: N/A

Client Sample ID: S171301626 (Batch 55103)

ARS Sample ID: ARS1-17-01347-008

Sample Collection Date: 05/10/17

Date Received: 05/12/17

Sample Matrix: Aqueous

Report Date: 06/07/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.112 | 0.099 | 0.138 | 0.051 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/06/17 7:35 | SCAUSEY | 105% |
| Ra-228 | -0.279 | 0.535 | 1.022 | 0.472 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 05/30/17 12:46 | SCAUSEY | 107% |

le

Project Manager Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

LELAP Certificate# 01949



**INTERNATIONAL
QC Results Report**

2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

Sample Delivery Group: ARS1-17-01347

Laboratory Control Sample Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | LCS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|----------------------|
| ARS1-B17-01012 | LCS | RA-226 | 20.646 | 3.347 | 0.095 | 27.656 | N/A | pCi/L | ARS-010/EPA 903 | 6/2/17 9:37 | SC | 75 | 75%-125% |
| ARS1-B17-01012 | LCS | RA-228 | 33.612 | 5.630 | 1.107 | 39.784 | N/A | pCi/L | ARS-010/EPA 904 | 5/26/17 14:22 | SC | 84 | 75%-125% |

Blank Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|
| ARS1-B17-01012 | MBL | RA-226 | 0.295 | 0.111 | 0.089 | NA | | pCi/L | ARS-010/EPA 903 | 6/2/17 9:37 | SC |
| ARS1-B17-01012 | MBL | RA-228 | 0.348 | 0.378 | 0.621 | NA | U | pCi/L | ARS-010/EPA 904 | 5/26/17 14:22 | SC |

RER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | RER | RER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01012 | LCSD | RA-226 | 20.646 | 3.347 | 27.623 | 4.457 | N/A | pCi/L | ARS-010/EPA 903 | 6/2/17 9:37 | SC | 0.89 | < 1 |
| ARS1-B17-01012 | LCSD | RA-228 | 33.612 | 5.630 | 37.322 | 6.204 | N/A | pCi/L | ARS-010/EPA 904 | 5/26/17 14:22 | SC | 0.31 | < 1 |

DER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | DER | DER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01012 | LCSD | RA-226 | 20.646 | 3.347 | 27.623 | 4.457 | N/A | pCi/L | ARS-010/EPA 903 | 6/2/17 9:37 | SC | 1.25 | < 3 |
| ARS1-B17-01012 | LCSD | RA-228 | 33.612 | 5.630 | 37.322 | 6.204 | N/A | pCi/L | ARS-010/EPA 904 | 5/26/17 14:22 | SC | 0.44 | < 3 |

Matrix Spike

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery(%) | MS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|---------------------|---------------------|
| ARS1-B17-01012 | MS | Ra-226 | 57.796 | 9.299 | 0.128 | 56.066 | N/A | pCi/L | ARS-010/EPA 903 | 6/2/17 9:37 | SC | 103 | 60%-140% |
| ARS1-B17-01012 | MSD | Ra-226 | 58.454 | 9.404 | 0.139 | 55.636 | N/A | pCi/L | ARS-010/EPA 903 | 6/2/17 9:37 | SC | 105 | 60%-140% |
| ARS1-B17-01012 | MS | Ra-228 | 38.794 | 6.527 | 1.144 | 52.792 | N/A | pCi/L | ARS-010/EPA 904 | 5/26/17 14:22 | SC | 73 | 60%-140% |
| ARS1-B17-01012 | MSD | Ra-228 | 46.116 | 7.685 | 1.414 | 52.325 | N/A | pCi/L | ARS-010/EPA 904 | 5/26/17 14:22 | SC | 88 | 60%-140% |

Project Manager Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

LELAP Certificate# 01949

NELAP Certificate # E87558



**INTERNATIONAL
QC Results Report**

2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

Sample Delivery Group: ARS1-17-01347;1440

Laboratory Control Sample Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | LCS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|----------------------|
| ARS1-B17-01040 | LCS | RA-226 | 30.504 | 4.906 | 0.092 | 30.667 | N/A | pCi/L | ARS-010/EPA 903 | 6/6/17 9:35 | SC | 99 | 75%-125% |
| ARS1-B17-01040 | LCS | RA-228 | 39.143 | 6.485 | 1.035 | 39.784 | N/A | pCi/L | ARS-010/EPA 904 | 5/30/17 14:45 | SC | 98 | 75%-125% |

Blank Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|
| ARS1-B17-01040 | MBL | RA-226 | 0.013 | 0.041 | 0.080 | NA | U | pCi/L | ARS-010/EPA 903 | 6/6/17 9:35 | SC |
| ARS1-B17-01040 | MBL | RA-228 | -0.143 | 0.316 | 0.589 | NA | U | pCi/L | ARS-010/EPA 904 | 5/30/17 14:45 | SC |

RER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | RER | RER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01040 | LCSD | RA-226 | 30.504 | 4.906 | 29.843 | 4.808 | N/A | pCi/L | ARS-010/EPA 903 | 6/6/17 9:35 | SC | 0.07 | < 1 |
| ARS1-B17-01040 | LCSD | RA-228 | 39.143 | 6.485 | 38.135 | 6.316 | N/A | pCi/L | ARS-010/EPA 904 | 5/30/17 14:45 | SC | 0.08 | < 1 |

DER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | DER | DER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01040 | LCSD | RA-226 | 30.504 | 4.906 | 29.843 | 4.808 | N/A | pCi/L | ARS-010/EPA 903 | 6/6/17 9:35 | SC | 0.10 | < 3 |
| ARS1-B17-01040 | LCSD | RA-228 | 39.143 | 6.485 | 38.135 | 6.316 | N/A | pCi/L | ARS-010/EPA 904 | 5/30/17 14:45 | SC | 0.11 | < 3 |

Matrix Spike

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | MS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|---------------------|
| ARS1-B17-01040 | MS | Ra-226 | 53.461 | 8.618 | 0.151 | 55.313 | N/A | pCi/L | ARS-010/EPA 903 | 6/6/17 9:35 | SC | 97 | 60%-140% |
| ARS1-B17-01040 | MSD | Ra-226 | 55.386 | 8.917 | 0.151 | 55.240 | N/A | pCi/L | ARS-010/EPA 904 | 6/6/17 9:35 | SC | 100 | 60%-140% |
| ARS1-B17-01040 | MS | Ra-228 | 38.798 | 6.505 | 1.053 | 52.653 | N/A | pCi/L | ARS-010/EPA 903 | 5/30/17 14:45 | SC | 74 | 60%-140% |
| ARS1-B17-01040 | MSD | Ra-228 | 44.076 | 7.343 | 1.350 | 52.498 | N/A | pCi/L | ARS-010/EPA 904 | 5/30/17 14:45 | SC | 84 | 60%-140% |

Project Manager Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

LELAP Certificate# 01949

NELAP Certificate # E87558

Notes (Case Narrative):

Comments:

- 1.0) All MDA/MDC values are calculated on a sample specific basis.
- 2.0) Soil and Sludge analysis are reported on a wet basis or an as received basis unless otherwise indicated.
- 3.0) Data in this report are within the limits of uncertainty specified in the reference method unless otherwise specified.
- 4.0) Modified analysis procedures are procedures that are modified to meet the certain specifications. An example may be the use of a water method to analyze a solid matrix due to the lack of an officially recognized procedure for the analysis of the solid matrix. Modified analyses are indicated by the subsequent addition of "m" to the procedure number (i.e. 900.0M).
- 5.0) Total activity is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring radioactive decay chains and other prominent radioactive nuclides. Total activity may be lower than the actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not representative of nuclides that emit solely alpha or beta particles.
- 6.0) Ra-228 is determined via secular equilibrium with its daughter, Actinium 228 (Gamma Spectroscopy only).
- 7.0) U-238 is determined via secular equilibrium with its daughter, Thorium 234 (Gamma Spectroscopy only).
- 8.0) All gamma spectroscopy was performed utilizing high purity germanium detectors (HPGe).
- 9.0) ARS makes every attempt to match sample density to calibrated density; however, in some cases, it is not practical or possible to do so and data results may be affected (Gamma Spectroscopy only).
- 10.0) Gamma spectroscopy results are calculated values based on the ORTEC[®] GammaVision ENV32 Analysis Engine.
- 11.0) ACLASS DOD and ISO 17025 certification applies only to the following analytes and methods: Gross Alpha and Gross Beta (EPA 900, SM7110B&C, SW846 9310); Radium 226 (EPA 903, EPA 903.1, SM 7500 Ra-B, SW846 9315); Radium 228 (EPA 904, SM 7500 Ra-B SW846 9320); Iodine-131(EPA 901.1); Uranium by ICPMS (EPA 200.8); Strontium 89/90 (EPA 905, Eichrom SRW01, HASL 300 Sr-03-RC); Tritium (EPA 906, EPA 906M); Gamma Emitters (EPA 901.1, SM7120B, HASL 300 Ga-01-R); Americium-241, Curium 242/244, Plutonium 239/240 and 241, Thorium 228/230/232, Uranium 234/233 and 238 (Eichrom ACW03 VBS); Lead 210 (HASL 300 Pb-01-RC, Eichrom OTW01); Polonium 210 (HASL 300 Po-01-RC, HASL 300 Po-02-RC); Technetium-99 (Eichrom TCW02, Eichrom TCS01M).

Method References:

- 1.0) EPA 600/4-80-032; Prescribed Procedures for the Measurements of Radioactivity in Drinking Water, August 1980.
- 2.0) Standard Methods for the Examination of Water and Wastewater (On-Line Edition)
- 3.0) EPA SW-846; Test Methods for Evaluating Solid Waste, (On-Line edition)
- 4.0) EPA 600/4/79-020; Methods for Chemical Analysis of Water and Waste, March 1983.
- 5.0) HASL 300; The Procedures Manual of the Environmental Measurements Laboratory, Volume I, 28th Edition February, 1997.

Definitions:

| | |
|-----------------|---|
| CRDL | Contract Required Detection Limit |
| CSU | Combined Standard Uncertainty |
| DLC | Decision Level Concentration (ANSI N42.23) or critical level |
| DO | Duplicate Original |
| DUP | Method Duplicate |
| LCS/LCSD | Laboratory Control Sample/Laboratory Control Sample Duplicate |
| MDA | Minimum Detectable Activity |
| MDC | (Minimum Detectable Concentration) minimum concentration of the analyte that ARS can detect utilizing the specific analysis |
| MBL | Method Blank |
| MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| N/A | Not Applicable |
| NP | Not Provided |
| NR | Not Referenced |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |

Data Qualifiers:

| | |
|-----------|--|
| B | The analyte is found in both the associated method blank and the sample. This flag indicates probable blank contamination. |
| D | Sample analysis accomplished through dilution. |
| J | The reported result is an estimated value above the limit of detection but outside of quantitation range (e.g., matrix interference was observed). |
| Q | One or more quality control criteria failed (e.g., LCS recovery, surrogate spike recovery, or CCV recovery). |
| U | Activity is below the MDC, MDA, MDL, or LOD |
| N | The analyte is a tentatively identified compound using mass spectrometry or any non-customer requested compounds that are tentatively identified. |
| * | LCS/LCSD or MS/MSD fails RPD criteria. |
| S | Spike |
| SC | Subcontracted out to another qualified laboratory |
| H | Holding time exceeded |

LELAP Cert# 01949

NELAP Cert# E87558

ARS-059-010
Revision: 9.1
Revision Date: 03-14-2017



Chain of Custody Record

Batch # **55103**

TEMP UN-C: **56**

Page **59** of **59**

Customer / Report Information
 Name: **CORPUS CREEK PAPER**
 Attention: **RICK COLEMAN**
 Address: **PO #:**
 Billing Information Check box if Billing is the same as Report Information
 Address: **PO #:**
 Project: **ORR SAMPLING**
 Comments: **B & A E D F**
 Requested Analysis: **Metals* Cl, F* SO4 PH TDS Ra 226/228 AIK: TOSSCAN BICAN DISS LIEM**
 Phone: **361-788-5145**
 EMAIL: **RICHARD.COLEMAN@CORPUSCREEK.COM**
 Completed By: **LABORATORY**

| Sample Information | Collected | Matrix | Container | Preservative | Custody Seals Present | | |
|--------------------|-----------|--------|-----------|--------------|-----------------------|--|------------|
| | | | | | | Client / Field Sample ID | Date |
| MW-1D | 5-5-17 | 1540 | G1 | W | 16 SD 220 | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> HNO3 <input type="checkbox"/> H3PO4 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | S171301614 |
| MW-1DA | 5-5-17 | 1612 | | | | <input type="checkbox"/> H2SO4 <input type="checkbox"/> HNO3 <input type="checkbox"/> H3PO4 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | S171301619 |
| MW-9 | 5-10-17 | 818 | | | | <input type="checkbox"/> H2SO4 <input type="checkbox"/> HNO3 <input type="checkbox"/> H3PO4 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | S171301620 |
| MW-9A | 5-10-17 | 858 | | | | <input type="checkbox"/> H2SO4 <input type="checkbox"/> HNO3 <input type="checkbox"/> H3PO4 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | S171301621 |
| MS \ 9A | 5-10-17 | 858 | | | | <input type="checkbox"/> H2SO4 <input type="checkbox"/> HNO3 <input type="checkbox"/> H3PO4 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | |
| MSD \ 9A | 5-10-17 | 858 | | | | <input type="checkbox"/> H2SO4 <input type="checkbox"/> HNO3 <input type="checkbox"/> H3PO4 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | |
| MW-5 | 5-10-17 | 1112 | | | | <input type="checkbox"/> H2SO4 <input type="checkbox"/> HNO3 <input type="checkbox"/> H3PO4 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | S171301622 |

Required Turnaround: Routine (6-10 Business Days) Expedite / Rush: 1 Business Day 2 Business Days 3 Business Days 5 Business Days Other _____

Surcharge will apply to RUSH TAT Authorized By: _____

Container Type: P=Plastic, G=Glass, V=VOA, O=Other _____

Carrier ID: _____

REMARKS: _____

| | | | | | |
|------------------------|---------------|-------------|--------------------|---------------|-------------|
| Relinquished By: _____ | Date: 5-10-17 | Time: 15:35 | Received By: _____ | Date: 5-10-17 | Time: 15:35 |
| Relinquished By: _____ | Date: _____ | Time: _____ | Received By: _____ | Date: _____ | Time: _____ |
| Relinquished By: _____ | Date: _____ | Time: _____ | Received By: _____ | Date: _____ | Time: _____ |

1606 E Brazos Suite D, Victoria, Texas 77901 Ph. (361) 572-8224 Fax (361) 572-4115 Toll Free 1-800-460-8223 Form #1000-0-2 REV 1.2 Email: kbenviro@suddenlinkmail.com www.benviro.com

Fluoride: 0.25 mg/L; Metals*: B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, Mg, K, Na, Pt



Chain of Custody Record

Batch # 55103

TEMP UN-C: 5.6

Page ___ of ___

Customer / Report Information
 Name: COOPER CREEK POWER
 Attention: RICK COLEMAN
 Address: _____
 Billing Information: Check box if Billing is the same as Report Information
 Address: _____
 Attention: _____
 Project: _____
 Comments: _____
 PO#: _____
 EMAIL: RICHARD.COLEMAN@DUVEQU.COM
 Requested Analysis: _____
 Completed By: Laboratory

| Sample Information | Collected By: | Collected | | Matrix | Container | Preservative | Custody Seals Present | |
|--------------------------|---------------|-----------|------|--|------------------------|--|--|------------------------------|
| | | Date | Time | | | | | Yes <input type="checkbox"/> |
| Client / Field Sample ID | | | | DW - Drinking H2O S - Solid WW - Waste H2O SL - Sludge L - Liquid W - Water | TYPE NUMBER SIZE | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE <input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | <input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | LAB Sample Number |
| PS-3 | | 5-10-17 | 1359 | G W | P 6 1/2 1/2 | <input checked="" type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE <input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | S171301623 |
| MW-11 | | 5-10-17 | 1325 | | | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE <input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | <input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | S171301625 |
| Dug | | 5-10-17 | | | | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE <input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | <input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | S171301626 |

Required Turnaround: 10 Business Days Expedite / Rush: 1 Business Day 2 Business Days 3 Business Days 5 Business Days Other _____

Remarks: _____

Surcharge will apply to RUSH TXI Authorized By: _____

Container Type: P=Plastic, G=Glass, V=VOA, O=Other

Carrier ID: _____

Relinquished By: _____ Date: 5-10-17 Time: 15:35

Relinquished By: _____ Date: _____ Time: _____

Relinquished By: _____ Date: _____ Time: _____

1606 E Brazos Suite D, Victoria, Texas 77901 Ph: (361) 572-9224 Fax: (361) 572-4115 Toll Free 1-800-460-8223 Form #1000-0-2 REV 1.2 Email: kkenviro@suddenlinkmail.com www.denvironmental.net

Fluoride: 0.25mg/L; METALS: B, Ca, Sr, As, Ba, Be, Cd, Cr, CO, Pb, L, Mn, Mo, Se, TI, Mg, K, Na, Fe, Hg

BatchNo: 55171

SAMPLE REPORT



T104704328-17-14

Business

Coletto Creek Power - R Coleman
PO Box 8
Fannin TX 77960
Att: Rick Coleman



Laboratory

B Environmental, LLC.
1606 E Brazos, Suite D
Victoria TX 77901
ph. 361-572-8224

Reference Information

Project: CCR Sampling
Printed: Tuesday, June 13, 2017

Re: Coletto Creek Power - R Coleman

Dear: Rick Coleman

Attached are the results for sample(s) received on 5/11/2017

The analytical results relate only to the samples tested.
All supporting quality data meets the requirements of NELAC unless noted in the case narrative section of the report.

This report contains 36 pages (including the cover page)

If you have any questions concerning this report, please do not hesitate to call (361) 572-8224 or Fax us at (361) 572-4115

Respectfully Submitted,

Kevin Baros
Laboratory Director



B Environmental, LLC. 1606 E Brazos, Suite D Victoria TX 77901
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B Environmental, LLC.
1606 E Brazos, Suite D

BatchNo: 55171

Victoria TX 77901

Batch No: 55171

Sample Receipt Checklist

Date Received: 5/11/2017

Project: CCR Sampling Received By: Woodruff

Login completed by: Woodruff 5/11/2017
Signature LoginDate:

Carrier Name Walk In

- Shipping container/cooler in good condition? YES NO Not Present
- Custody seals intact on shipping container/cooler? YES NO Not Present
- Custody seals intact on sample bottles? YES NO Not Present
- Chain of Custody present? YES NO
- Chain of Custody signed when relinquished and received YES NO
- Chain of Custody agrees with sample labels? YES NO
- Samples in proper container/bottles? YES NO
- Sample containers intact? YES NO
- Sufficient sample volume for indicated tests? YES NO
- All samples received within holding times? YES NO
- Container/Temp Blank - temperature in compliance? YES NO >0 <6 °C On Ice
- Water - VOA vials have zero headspace? Bubble < 6mm? YES NO No VOA Vials submitted
- Water - pH acceptable upon receipt? YES NO Not Applicable

*TEMP 7.4/7.2 pH Adjusted? No Checked By L. Vahrenkamp

Any No and/or N/A (not applicable) response must be detailed in the comments section below.

Client contacted PersonContacted

Contacted by: Date Contacted:

Regarding

Comments

Therm. #3. HNO3 Lot# 2-42-12. The samples were received the same day they were collected and were in the process of cooling.

Corrective Action



B Environmental, LLC. 1606 E Brazos, Suite D Victoria TX 77901

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B Environmental, LLC.
1606 E Brazos, Suite D

BatchNo: 55171

Victoria TX 77901

Sample Report Information



| | | | | | |
|-------------------|-------------------|-------------------|--------------|-----------------|---------------|
| Sample ID: | S171311605 | Client ID: | BV-10 | Sampler: | Client |
|-------------------|-------------------|-------------------|--------------|-----------------|---------------|

Client: Coleta Creek Power - R Coleman
Study: Water

Batch No: 55171
Sampled: 5/11/2017 8:43 AM

Project: CCR Sampling

Location: BV-10

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 85 | mg/L | EPA 300 | K Baros | 5/12/2017 17:32 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 290 | mg/L | SM 2320 B | | 5/15/2017 13:26 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 5/15/2017 13:26 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 290 | mg/L | SM 2320 B | | 5/15/2017 13:26 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.82 | mg/L | EPA 300 | K Baros | 5/12/2017 17:32 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.46 | SU | SM 4500-H+B | C Watts | 5/11/2017 17:00 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 666 | mg/L | SM2540C | C Watts | 5/17/2017 13:30 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 5/15/2017 14:15 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 79 | mg/L | EPA 300 | K Baros | 5/12/2017 17:32 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 6/1/2017 7:39 | | | | | <input checked="" type="checkbox"/> | ARS International |



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1606 E Brazos, Suite D

Victoria TX 77901

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B Environmental, LLC.
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BatchNo: 55171

Victoria TX 77901

Sample Report Information



| | | |
|------------------------------|------------------------|------------------------|
| Sample ID: S171311608 | Client ID: BV-1 | Sampler: Client |
|------------------------------|------------------------|------------------------|

Client: Coieto Creek Power - R Coleman
Study: Water
Project: CCR Sampling
Location: BV-1
Notes:

Batch No: 55171
Sampled: 5/11/2017 10:40 AM

Type: Grab
Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 144 | mg/L | EPA 300 | K Baros | 5/12/2017 17:32 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 392 | mg/L | SM 2320 B | | 5/15/2017 13:40 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 5/15/2017 13:40 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 392 | mg/L | SM 2320 B | | 5/15/2017 13:40 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.73 | mg/L | EPA 300 | K Baros | 5/12/2017 17:32 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.11 | SU | SM 4500-H+B | C Watts | 5/11/2017 17:00 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 960 | mg/L | SM2540C | C Watts | 5/18/2017 16:30 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 5/15/2017 14:17 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 185 | mg/L | EPA 300 | K Baros | 5/12/2017 17:32 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 6/1/2017 7:39 | | | | | | <input checked="" type="checkbox"/> ARS International |



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Sample Report Information



| | | | | | |
|-------------------|-------------------|-------------------|-------------|-----------------|---------------|
| Sample ID: | S171311609 | Client ID: | BV-5 | Sampler: | Client |
|-------------------|-------------------|-------------------|-------------|-----------------|---------------|

Client: Coleta Creek Power - R Coleman
Study: Water
Project: CCR Sampling
Location: BV-5
Notes:

Batch No: 55171
Sampled: 5/11/2017 11:30 AM

Type: Grab
Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 106 | mg/L | EPA 300 | K Baros | 5/12/2017 17:32 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 348 | mg/L | SM 2320 B | | 5/15/2017 13:53 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 5/15/2017 13:53 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 348 | mg/L | SM 2320 B | | 5/15/2017 13:53 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.57 | mg/L | EPA 300 | K Baros | 5/12/2017 17:32 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 6.99 | SU | SM 4500-H+B | C Watts | 5/11/2017 17:00 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 862 | mg/L | SM2540C | C Watts | 5/17/2017 13:30 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 5/15/2017 14:20 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 148 | mg/L | EPA 300 | K Baros | 5/12/2017 17:32 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 6/1/2017 7:39 | | | | | <input checked="" type="checkbox"/> | ARS International |



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Sample Report Information



| | | | |
|------------------------------|-------------------------|-----------------|---------------|
| Sample ID: S171311610 | Client ID: BV-19 | Sampler: | Client |
|------------------------------|-------------------------|-----------------|---------------|

Client: Coleta Creek Power - R Coleman
 Study: Water
 Project: CCR Sampling
 Location: BV-19
 Notes:

Batch No: 55171
 Sampled: 5/11/2017 10:01 AM
 Type: Grab
 Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 116 | mg/L | EPA 300 | K Baros | 5/12/2017 17:32 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 316 | mg/L | SM 2320 B | | 5/15/2017 14:06 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 5/15/2017 14:06 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 316 | mg/L | SM 2320 B | | 5/15/2017 14:06 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.51 | mg/L | EPA 300 | K Baros | 5/12/2017 17:32 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 6.93 | SU | SM 4500-H+B | C Watts | 5/11/2017 17:00 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 636 | mg/L | SM2540C | C Watts | 5/18/2017 16:30 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 5/15/2017 14:22 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 57 | mg/L | EPA 300 | K Baros | 5/12/2017 17:32 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 6/1/2017 7:39 | | | | | <input checked="" type="checkbox"/> | ARS International |



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Sample Report Information



| | | | | | |
|------------|------------|------------|------|----------|--------|
| Sample ID: | S171311611 | Client ID: | MW-6 | Sampler: | Client |
|------------|------------|------------|------|----------|--------|

Client: Coletto Creek Power - R Coleman
 Study: Water

Batch No: 55171
 Sampled: 5/11/2017 1:10 PM

Project: CCR Sampling

Location: MW #6

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| .- Chloride, IC | 70 | mg/L | EPA 300 | K Baros | 5/12/2017 17:32 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 164 | mg/L | SM 2320 B | | 5/15/2017 14:12 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 5/15/2017 14:12 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 164 | mg/L | SM 2320 B | | 5/15/2017 14:12 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.37 | mg/L | EPA 300 | K Baros | 5/12/2017 17:32 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.25 | SU | SM 4500-H+B | C Watts | 5/11/2017 17:00 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 490 | mg/L | SM2540C | C Watts | 5/18/2017 16:30 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 5/15/2017 14:24 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 110 | mg/L | EPA 300 | K Baros | 5/12/2017 17:32 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 6/1/2017 7:39 | | | | | | <input checked="" type="checkbox"/> ARS International |



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Sample Report Information



| | | | | | |
|-------------------|-------------------|-------------------|-------------|-----------------|---------------|
| Sample ID: | S171311612 | Client ID: | MW-7 | Sampler: | Client |
|-------------------|-------------------|-------------------|-------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman
Study: Water

Batch No: 55171
Sampled: 5/11/2017 1:40 PM

Project: CCR Sampling

Location: MW #7

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 91 | mg/L | EPA 300 | K Baros | 5/12/2017 17:32 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 247 | mg/L | SM 2320 B | | 5/15/2017 14:26 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 5/15/2017 14:26 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 247 | mg/L | SM 2320 B | | 5/15/2017 14:26 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.6 | mg/L | EPA 300 | K Baros | 5/12/2017 17:32 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.17 | SU | SM 4500-H+B | C Watts | 5/11/2017 17:00 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 586 | mg/L | SM2540C | C Watts | 5/17/2017 13:30 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 5/15/2017 14:11 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 74 | mg/L | EPA 300 | K Baros | 5/12/2017 17:32 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 6/1/2017 7:39 | | | | | | <input checked="" type="checkbox"/> ARS International |



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QA Summary Report

| Parameter | ID | Result | Ref Value | Amt Added | LOQ | Qualifier | Control | Flag | Comments |
|--|------------|-----------|-----------|-----------|------|-----------|---------|----------|-------------------------------|
| Method Blank | | | | | | | | | |
| - Chloride, IC 5/12/2017 11:19 | Q171431718 | <1mg/L | 0 | | | 1 | I | | Blank Acceptable. |
| Fluoride, IC 5/12/2017 11:19 | Q171431718 | <0.25mg/L | 0 | | 0.25 | | 0.25 | | Blank Acceptable. |
| Solids, Total Dissolved 5/17/2017 13:30 | Q171381221 | <25mg/L | 0 | | 10 | | 25 | | Blank Acceptable. |
| Sulfate, IC 5/12/2017 11:19 | Q171431718 | <1mg/L | 0 | | | 1 | 1 | | Blank Acceptable. |
| Duplicate | | | | | | | | | |
| pH (Standard Units) 5/11/2017 17:00 | Q171311719 | 7.18SU | 7.17 | | | 2 | 0.1% | 20 | Duplicate RPD Acceptable. |
| Solids, Total Dissolved 5/17/2017 13:30 | Q171381222 | 592mg/L | 586 | | 10 | 1.0% | | 20 | Duplicate RPD Acceptable. |
| Laboratory Control Standard | | | | | | | | | |
| - Chloride, IC 5/12/2017 11:57 | Q171431802 | 25.7mg/L | 25 | | | 1 | 102.8% | 80 - 120 | Standard Recovery Acceptable. |
| Fluoride, IC 5/12/2017 11:57 | Q171431802 | 2.05mg/L | 2 | | 0.25 | 102.5% | | 20 | Standard RPD Acceptable. |
| pH (Standard Units) 5/11/2017 17:00 | Q171311718 | 7.03SU | 7 | | | 2 | 100.4% | 80 - 120 | Standard Recovery Acceptable. |
| Sulfate, IC 5/12/2017 11:57 | Q171431802 | 26.2mg/L | 25 | | | 1 | 104.8% | 80 - 120 | Standard RPD Acceptable. |
| Matrix Spike | | | | | | | | | |
| - Chloride, IC 5/12/2017 22:37 | Q17143180A | 107mg/L | 107.3 | 25 | | 1 | 98.8% | 80 - 120 | Spike Recovery Acceptable. |
| Fluoride, IC 5/12/2017 22:37 | Q17143180A | 2.4mg/L | 2.53 | 2 | 0.25 | 93.5% | | 20 | Spike RPD Acceptable. |
| Sulfate, IC 5/12/2017 22:37 | Q17143180A | 92.1mg/L | 91.9 | 25 | | 1 | 100.8% | 70 - 130 | Spike Recovery Acceptable. |
| Matrix Spike Dup | | | | | | | | | |
| - Chloride, IC 5/12/2017 23:15 | Q17143180B | 107mg/L | 107.3 | 25 | | 1 | 98.8% | 80 - 120 | Spike Recovery Acceptable. |
| Fluoride, IC 5/12/2017 23:15 | Q17143180B | 2.4mg/L | 2.53 | 2 | 0.25 | 93.5% | | 20 | Spike RPD Acceptable. |
| Sulfate, IC 5/12/2017 23:15 | Q17143180B | 91.6mg/L | 91.9 | 25 | | 1 | 98.8% | 70 - 130 | Spike Recovery Acceptable. |



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Flag and Qualifier Legend

-  *Negative - Result Detected* *MDL = Method Detection Limit* *DF = Dilution Factor*
-  *Caution - Problem Detected* *LOQ = Limit of Quantitation* *j = Analyte detected between MDL and LOQ*
-  *Warning - Null Value* *S = surrogate standard out of limit* *H = sample out of hold time*
-  **MS, MSD, RPD- Failure may occur due to matrix interference, data released per QA plan**

Tuesday, June 13, 2017

B Environmental - LDMS QA Report Summary

Note:

THANK YOU!



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DHL Analytical, Inc.

Date: 18-May-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Lab Order: 1705121

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition and Standard Methods.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives except where noted in the following. For Total Metals Analysis, the recoveries of up to two analytes for the Matrix Spike and Matrix Spike Duplicate (1705121-06 MS/MSD) were outside of the method control limits. These are flagged accordingly in the QC Summary Report. These analytes were within method control limits in the associated LCS. No further corrective action was taken.

For Total Metals Analysis, the recovery of Boron for the Post Digestion Spike (1705121-06 PDS) was slightly below the method control limits. This is flagged accordingly in the QC Summary Report. This analyte was within method control limits in the associated Serial Dilution. No further corrective action was taken.

The Total and Dissolved Metals Analysis, the results Dissolved Lithium/Molybdenum for six samples were slightly higher than the results of Total Lithium/Molybdenum. The results were within acceptable analytical variation limits. No further corrective action was taken.

DHL Analytical, Inc.

Date: 18-May-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (55171)
Lab Order: 1705121

Client Sample ID: BV-10
Lab ID: 1705121-01
Alternate ID: S171311605
Collection Date: 05/11/17 08:43 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 0.0112 | 0.00500 | 0.0100 | | mg/L | 1 | 05/17/17 03:41 PM |
| Dissolved Molybdenum | 0.00831 | 0.00200 | 0.00500 | | mg/L | 1 | 05/17/17 03:41 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: CVD | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 05/15/17 02:15 PM |
| Arsenic | 0.0122 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 02:15 PM |
| Barium | 0.0464 | 0.00300 | 0.0100 | | mg/L | 1 | 05/15/17 02:15 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/15/17 02:15 PM |
| Boron | 1.07 | 0.0100 | 0.0300 | | mg/L | 1 | 05/15/17 02:15 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/15/17 02:15 PM |
| Calcium | 39.4 | 1.00 | 3.00 | | mg/L | 10 | 05/16/17 12:44 PM |
| Chromium | 0.00424 | 0.00200 | 0.00500 | J | mg/L | 1 | 05/15/17 02:15 PM |
| Cobalt | 0.204 | 0.00300 | 0.00500 | | mg/L | 1 | 05/15/17 02:15 PM |
| Lead | 0.00416 | 0.000300 | 0.00100 | | mg/L | 1 | 05/15/17 02:15 PM |
| Lithium | 0.0118 | 0.00500 | 0.0100 | | mg/L | 1 | 05/15/17 02:15 PM |
| Magnesium | 7.04 | 0.100 | 0.300 | | mg/L | 1 | 05/15/17 02:15 PM |
| Molybdenum | 0.00783 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 02:15 PM |
| Potassium | 0.714 | 0.100 | 0.300 | | mg/L | 1 | 05/15/17 02:15 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 02:15 PM |
| Sodium | 174 | 1.00 | 3.00 | | mg/L | 10 | 05/16/17 12:44 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 05/15/17 02:15 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 05/17/17 12:42 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 290 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 05/15/17 01:26 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 05/15/17 01:26 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 05/15/17 01:26 PM |
| Alkalinity, Total (As CaCO3) | 290 | 20.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 05/15/17 01:26 PM |

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 18-May-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (55171)
Lab Order: 1705121

Client Sample ID: BV-1
Lab ID: 1705121-02
Alternate ID: S171311608
Collection Date: 05/11/17 10:40 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|-----------|----------------|----------|------|----------------|----|---------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | | | | Analyst: SP |
| Dissolved Lithium | 0.0156 | 0.00500 | 0.0100 | | mg/L | 1 | 05/17/17 03:43 PM |
| Dissolved Molybdenum | 0.00456 | 0.00200 | 0.00500 | J | mg/L | 1 | 05/17/17 03:43 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | | | | Analyst: CVD |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 05/15/17 02:17 PM |
| Arsenic | 0.00978 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 02:17 PM |
| Barium | 0.0446 | 0.00300 | 0.0100 | | mg/L | 1 | 05/15/17 02:17 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/15/17 02:17 PM |
| Boron | 1.23 | 0.0100 | 0.0300 | | mg/L | 1 | 05/15/17 02:17 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/15/17 02:17 PM |
| Calcium | 68.9 | 1.00 | 3.00 | | mg/L | 10 | 05/16/17 12:46 PM |
| Chromium | 0.00885 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 02:17 PM |
| Cobalt | 0.392 | 0.00300 | 0.00500 | | mg/L | 1 | 05/15/17 02:17 PM |
| Lead | 0.00576 | 0.000300 | 0.00100 | | mg/L | 1 | 05/15/17 02:17 PM |
| Lithium | 0.0155 | 0.00500 | 0.0100 | | mg/L | 1 | 05/15/17 02:17 PM |
| Magnesium | 11.1 | 0.100 | 0.300 | | mg/L | 1 | 05/15/17 02:17 PM |
| Molybdenum | 0.00419 | 0.00200 | 0.00500 | J | mg/L | 1 | 05/15/17 02:17 PM |
| Potassium | 0.524 | 0.100 | 0.300 | | mg/L | 1 | 05/15/17 02:17 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 02:17 PM |
| Sodium | 267 | 1.00 | 3.00 | | mg/L | 10 | 05/16/17 12:46 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 05/15/17 02:17 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | | | Analyst: AH |
| Mercury | <0.000800 | 0.000800 | 0.000200 | | mg/L | 1 | 05/17/17 12:44 PM |
| ALKALINITY | | M2320 B | | | | | Analyst: BTJ |
| Alkalinity, Bicarbonate (As CaCO3) | 392 | 10.0 | 20.0 | | mg/L @ pH 4.54 | 1 | 05/15/17 01:40 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.54 | 1 | 05/15/17 01:40 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.54 | 1 | 05/15/17 01:40 PM |
| Alkalinity, Total (As CaCO3) | 392 | 20.0 | 20.0 | | mg/L @ pH 4.54 | 1 | 05/15/17 01:40 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 18-May-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (55171)
Lab Order: 1705121

Client Sample ID: BV-5
Lab ID: 1705121-03
Alternate ID: S171311609
Collection Date: 05/11/17 11:30 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 0.0183 | 0.00500 | 0.0100 | | mg/L | 1 | 05/17/17 03:45 PM |
| Dissolved Molybdenum | 0.0105 | 0.00200 | 0.00500 | | mg/L | 1 | 05/17/17 03:45 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: CVD | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 05/15/17 02:20 PM |
| Arsenic | 0.00786 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 02:20 PM |
| Barium | 0.0368 | 0.00300 | 0.0100 | | mg/L | 1 | 05/15/17 02:20 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/15/17 02:20 PM |
| Boron | 1.03 | 0.0100 | 0.0300 | | mg/L | 1 | 05/15/17 02:20 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/15/17 02:20 PM |
| Calcium | 81.6 | 1.00 | 3.00 | | mg/L | 10 | 05/16/17 12:47 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 02:20 PM |
| Cobalt | 0.0462 | 0.00300 | 0.00500 | | mg/L | 1 | 05/15/17 02:20 PM |
| Lead | 0.000566 | 0.000300 | 0.00100 | J | mg/L | 1 | 05/15/17 02:20 PM |
| Lithium | 0.0180 | 0.00500 | 0.0100 | | mg/L | 1 | 05/15/17 02:20 PM |
| Magnesium | 16.3 | 0.100 | 0.300 | | mg/L | 1 | 05/15/17 02:20 PM |
| Molybdenum | 0.0101 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 02:20 PM |
| Potassium | 0.172 | 0.100 | 0.300 | J | mg/L | 1 | 05/15/17 02:20 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 02:20 PM |
| Sodium | 170 | 1.00 | 3.00 | | mg/L | 10 | 05/16/17 12:47 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 05/15/17 02:20 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 05/17/17 12:46 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 348 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 05/15/17 01:53 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 05/15/17 01:53 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 05/15/17 01:53 PM |
| Alkalinity, Total (As CaCO3) | 348 | 20.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 05/15/17 01:53 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern
 J Analyte detected between MDL and RL
 MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 18-May-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (55171)
Lab Order: 1705121

Client Sample ID: BV-19
Lab ID: 1705121-04
Alternate ID: S171311610
Collection Date: 05/11/17 10:01 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 0.0136 | 0.00500 | 0.0100 | | mg/L | 1 | 05/17/17 03:47 PM |
| Dissolved Molybdenum | 0.00515 | 0.00200 | 0.00500 | | mg/L | 1 | 05/17/17 03:47 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: CVD | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 05/15/17 02:22 PM |
| Arsenic | 0.00769 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 02:22 PM |
| Barium | 0.0835 | 0.00300 | 0.0100 | | mg/L | 1 | 05/15/17 02:22 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/15/17 02:22 PM |
| Boron | 0.778 | 0.0100 | 0.0300 | | mg/L | 1 | 05/15/17 02:22 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/15/17 02:22 PM |
| Calcium | 95.0 | 1.00 | 3.00 | | mg/L | 10 | 05/16/17 12:49 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 02:22 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 05/15/17 02:22 PM |
| Lead | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/15/17 02:22 PM |
| Lithium | 0.0148 | 0.00500 | 0.0100 | | mg/L | 1 | 05/15/17 02:22 PM |
| Magnesium | 22.1 | 0.100 | 0.300 | | mg/L | 1 | 05/15/17 02:22 PM |
| Molybdenum | 0.00474 | 0.00200 | 0.00500 | J | mg/L | 1 | 05/15/17 02:22 PM |
| Potassium | 0.603 | 0.100 | 0.300 | | mg/L | 1 | 05/15/17 02:22 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 02:22 PM |
| Sodium | 87.5 | 1.00 | 3.00 | | mg/L | 10 | 05/16/17 12:49 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 05/15/17 02:22 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 05/17/17 12:48 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 316 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 05/15/17 02:06 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 05/15/17 02:06 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 05/15/17 02:06 PM |
| Alkalinity, Total (As CaCO3) | 316 | 20.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 05/15/17 02:06 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern J Analyte detected between MDL and RL
 MDL Method Detection Limit ND Not Detected at the Method Detection Limit
 RL Reporting Limit S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 18-May-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (55171)
Lab Order: 1705121

Client Sample ID: MW-6
Lab ID: 1705121-05
Alternate ID: S171311611
Collection Date: 05/11/17 01:10 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|------|----------------|----|---------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | | | | Analyst: SP |
| Dissolved Lithium | 0.00992 | 0.00500 | 0.0100 | J | mg/L | 1 | 05/17/17 04:03 PM |
| Dissolved Molybdenum | 0.0191 | 0.00200 | 0.00500 | | mg/L | 1 | 05/17/17 04:03 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | | | | Analyst: CVD |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 05/15/17 02:24 PM |
| Arsenic | 0.00738 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 02:24 PM |
| Barium | 0.0758 | 0.00300 | 0.0100 | | mg/L | 1 | 05/15/17 02:24 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/15/17 02:24 PM |
| Boron | 1.94 | 0.0100 | 0.0300 | | mg/L | 1 | 05/15/17 02:24 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/15/17 02:24 PM |
| Calcium | 70.6 | 1.00 | 3.00 | | mg/L | 10 | 05/16/17 01:14 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 02:24 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 05/15/17 02:24 PM |
| Lead | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/15/17 02:24 PM |
| Lithium | 0.0101 | 0.00500 | 0.0100 | | mg/L | 1 | 05/15/17 02:24 PM |
| Magnesium | 8.74 | 0.100 | 0.300 | | mg/L | 1 | 05/15/17 02:24 PM |
| Molybdenum | 0.0176 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 02:24 PM |
| Potassium | 0.794 | 0.100 | 0.300 | | mg/L | 1 | 05/15/17 02:24 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 02:24 PM |
| Sodium | 73.6 | 1.00 | 3.00 | | mg/L | 10 | 05/16/17 01:14 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 05/15/17 02:24 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | | | Analyst: AH |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 05/17/17 12:55 PM |
| ALKALINITY | | M2320 B | | | | | Analyst: BTJ |
| Alkalinity, Bicarbonate (As CaCO3) | 164 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 05/15/17 02:12 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 05/15/17 02:12 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 05/15/17 02:12 PM |
| Alkalinity, Total (As CaCO3) | 164 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 05/15/17 02:12 PM |

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 18-May-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (55171)
Lab Order: 1705121

Client Sample ID: MW-7
Lab ID: 1705121-06
Alternate ID: S171311612
Collection Date: 05/11/17 01:40 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 0.0103 | 0.00500 | 0.0100 | | mg/L | 1 | 05/17/17 03:27 PM |
| Dissolved Molybdenum | 0.0103 | 0.00200 | 0.00500 | | mg/L | 1 | 05/17/17 03:27 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: CVD | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 05/15/17 02:11 PM |
| Arsenic | 0.00908 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 02:11 PM |
| Barium | 0.0880 | 0.00300 | 0.0100 | | mg/L | 1 | 05/15/17 02:11 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/15/17 02:11 PM |
| Boron | 0.867 | 0.0100 | 0.0300 | | mg/L | 1 | 05/15/17 02:11 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/15/17 02:11 PM |
| Calcium | 66.5 | 1.00 | 3.00 | | mg/L | 10 | 05/16/17 12:32 PM |
| Chromium | 0.00443 | 0.00200 | 0.00500 | J | mg/L | 1 | 05/15/17 02:11 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 05/15/17 02:11 PM |
| Lead | 0.000664 | 0.000300 | 0.00100 | J | mg/L | 1 | 05/15/17 02:11 PM |
| Lithium | 0.00960 | 0.00500 | 0.0100 | J | mg/L | 1 | 05/15/17 02:11 PM |
| Magnesium | 9.83 | 0.100 | 0.300 | | mg/L | 1 | 05/15/17 02:11 PM |
| Molybdenum | 0.00960 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 02:11 PM |
| Potassium | 1.19 | 0.100 | 0.300 | | mg/L | 1 | 05/15/17 02:11 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/15/17 02:11 PM |
| Sodium | 113 | 1.00 | 3.00 | | mg/L | 10 | 05/16/17 12:32 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 05/15/17 02:11 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 05/17/17 12:58 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 247 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/15/17 02:26 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/15/17 02:26 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/15/17 02:26 PM |
| Alkalinity, Total (As CaCO3) | 247 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/15/17 02:26 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit

B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 18-May-17

CLIENT: B-Environmental
 Work Order: 1705121
 Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_170517A

The QC data in batch 80441 applies to the following samples: 1705121-01A, 1705121-02A, 1705121-03A, 1705121-04A, 1705121-05A, 1705121-06A

| | | | | | | | |
|-----------|----------|-----------|-------------------|----------------|-----------------------|------------|-----------|
| Sample ID | MB-80441 | Batch ID: | 80441 | TestNo: | SW7470A | Units: | mg/L |
| SampType: | MBLK | Run ID: | CETAC2_HG_170517A | Analysis Date: | 5/17/2017 12:21:45 PM | Prep Date: | 5/12/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|------------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | <0.0000800 | 0.000200 | | | | | | | | |

| | | | | | | | |
|-----------|-----------|-----------|-------------------|----------------|-----------------------|------------|-----------|
| Sample ID | LCS-80441 | Batch ID: | 80441 | TestNo: | SW7470A | Units: | mg/L |
| SampType: | LCS | Run ID: | CETAC2_HG_170517A | Analysis Date: | 5/17/2017 12:24:01 PM | Prep Date: | 5/12/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00188 | 0.000200 | 0.00200 | 0 | 94.0 | 85 | 115 | | | |

| | | | | | | | |
|-----------|------------|-----------|-------------------|----------------|-----------------------|------------|-----------|
| Sample ID | LCSD-80441 | Batch ID: | 80441 | TestNo: | SW7470A | Units: | mg/L |
| SampType: | LCSD | Run ID: | CETAC2_HG_170517A | Analysis Date: | 5/17/2017 12:26:17 PM | Prep Date: | 5/12/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00185 | 0.000200 | 0.00200 | 0 | 92.5 | 85 | 115 | 1.61 | 15 | |

| | | | | | | | |
|-----------|----------------|-----------|-------------------|----------------|----------------------|------------|-----------|
| Sample ID | 1705121-06A SD | Batch ID: | 80441 | TestNo: | SW7470A | Units: | mg/L |
| SampType: | SD | Run ID: | CETAC2_HG_170517A | Analysis Date: | 5/17/2017 1:00:20 PM | Prep Date: | 5/12/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|-----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | <0.000400 | 0.00100 | 0 | 0 | | | | 0 | 10 | |

| | | | | | | | |
|-----------|-----------------|-----------|-------------------|----------------|----------------------|------------|-----------|
| Sample ID | 1705121-06A PDS | Batch ID: | 80441 | TestNo: | SW7470A | Units: | mg/L |
| SampType: | PDS | Run ID: | CETAC2_HG_170517A | Analysis Date: | 5/17/2017 1:02:36 PM | Prep Date: | 5/12/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00245 | 0.000200 | 0.00250 | 0 | 98.0 | 85 | 115 | | | |

| | | | | | | | |
|-----------|----------------|-----------|-------------------|----------------|----------------------|------------|-----------|
| Sample ID | 1705121-06A MS | Batch ID: | 80441 | TestNo: | SW7470A | Units: | mg/L |
| SampType: | MS | Run ID: | CETAC2_HG_170517A | Analysis Date: | 5/17/2017 1:04:52 PM | Prep Date: | 5/12/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00190 | 0.000200 | 0.00200 | 0 | 95.0 | 80 | 120 | | | |

| | | | | | | | |
|-----------|-----------------|-----------|-------------------|----------------|----------------------|------------|-----------|
| Sample ID | 1705121-06A MSD | Batch ID: | 80441 | TestNo: | SW7470A | Units: | mg/L |
| SampType: | MSD | Run ID: | CETAC2_HG_170517A | Analysis Date: | 5/17/2017 1:07:08 PM | Prep Date: | 5/12/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|-------|----------|------|
| Mercury | 0.00191 | 0.000200 | 0.00200 | 0 | 95.5 | 80 | 120 | 0.525 | 15 | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705121
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170517A

The QC data in batch 80456 applies to the following samples: 1705121-01B, 1705121-02B, 1705121-03B, 1705121-04B, 1705121-05B, 1705121-06B

| | | | | | | | | | | |
|------------|------------------------|-----------|------------------------|----------------|-----------------------------|------------|------------------|------|----------|------|
| Sample ID | MB-80428-FILTER | Batch ID: | 80456 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | MBLK | Run ID: | ICP-MS4_170517A | Analysis Date: | 5/17/2017 3:17:00 PM | Prep Date: | 5/15/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | <0.00500 | 0.0100 | | | | | | | | |
| Molybdenum | <0.00200 | 0.00500 | | | | | | | | |

| | | | | | | | | | | |
|------------|-----------------|-----------|------------------------|----------------|-----------------------------|------------|------------------|------|----------|------|
| Sample ID | MB-80456 | Batch ID: | 80456 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | MBLK | Run ID: | ICP-MS4_170517A | Analysis Date: | 5/17/2017 3:19:00 PM | Prep Date: | 5/15/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | <0.00500 | 0.0100 | | | | | | | | |
| Molybdenum | <0.00200 | 0.00500 | | | | | | | | |

| | | | | | | | | | | |
|------------|------------------|-----------|------------------------|----------------|-----------------------------|------------|------------------|------|----------|------|
| Sample ID | LCS-80456 | Batch ID: | 80456 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | LCS | Run ID: | ICP-MS4_170517A | Analysis Date: | 5/17/2017 3:21:00 PM | Prep Date: | 5/15/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.206 | 0.0100 | 0.200 | 0 | 103 | 80 | 120 | | | |
| Molybdenum | 0.197 | 0.00500 | 0.200 | 0 | 98.5 | 80 | 120 | | | |

| | | | | | | | | | | |
|------------|-------------------|-----------|------------------------|----------------|-----------------------------|------------|------------------|-------|----------|------|
| Sample ID | LCSD-80456 | Batch ID: | 80456 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | LCSD | Run ID: | ICP-MS4_170517A | Analysis Date: | 5/17/2017 3:23:00 PM | Prep Date: | 5/15/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.201 | 0.0100 | 0.200 | 0 | 100 | 80 | 120 | 2.53 | 15 | |
| Molybdenum | 0.197 | 0.00500 | 0.200 | 0 | 98.6 | 80 | 120 | 0.123 | 15 | |

| | | | | | | | | | | |
|------------|-----------------------|-----------|------------------------|----------------|-----------------------------|------------|------------------|-------|----------|------|
| Sample ID | 1705121-06B SD | Batch ID: | 80456 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | SD | Run ID: | ICP-MS4_170517A | Analysis Date: | 5/17/2017 3:29:00 PM | Prep Date: | 5/15/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | <0.0250 | 0.0500 | 0 | 0.0103 | | | | 0 | 10 | |
| Molybdenum | 0.0102 | 0.0250 | 0 | 0.0103 | | | | 0.950 | 10 | |

| | | | | | | | | | | |
|------------|------------------------|-----------|------------------------|----------------|-----------------------------|------------|------------------|------|----------|------|
| Sample ID | 1705121-06B PDS | Batch ID: | 80456 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | PDS | Run ID: | ICP-MS4_170517A | Analysis Date: | 5/17/2017 3:49:00 PM | Prep Date: | 5/15/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.196 | 0.0100 | 0.200 | 0.0103 | 92.6 | 80 | 120 | | | |
| Molybdenum | 0.200 | 0.00500 | 0.200 | 0.0103 | 95.0 | 80 | 120 | | | |

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
 J Analyte detected between MDL and RL MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
 RL Reporting Limit S Spike Recovery outside control limits
 J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705121
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170517A

| Sample ID: 1705121-06B MS | Batch ID: 80456 | TestNo: SW6020A | Units: mg/L | | | | | | | |
|----------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: MS | Run ID: ICP-MS4_170517A | Analysis Date: 5/17/2017 3:51:00 PM | Prep Date: 5/15/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Dissolved Lithium | 0.207 | 0.0100 | 0.200 | 0.0103 | 98.4 | 80 | 120 | | | |
| Dissolved Molybdenum | 0.216 | 0.00500 | 0.200 | 0.0103 | 103 | 80 | 120 | | | |

| Sample ID: 1705121-06B MSD | Batch ID: 80456 | TestNo: SW6020A | Units: mg/L | | | | | | | |
|-----------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|-------|----------|------|
| SampType: MSD | Run ID: ICP-MS4_170517A | Analysis Date: 5/17/2017 3:53:00 PM | Prep Date: 5/15/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Dissolved Lithium | 0.208 | 0.0100 | 0.200 | 0.0103 | 98.8 | 80 | 120 | 0.348 | 15 | |
| Dissolved Molybdenum | 0.213 | 0.00500 | 0.200 | 0.0103 | 102 | 80 | 120 | 1.27 | 15 | |

Qualifiers:

| | | | |
|----|---|-----|---------------------------------------|
| B | Analyte detected in the associated Method Blank | DF | Dilution Factor |
| J | Analyte detected between MDL and RL | MDL | Method Detection Limit |
| ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| RL | Reporting Limit | S | Spike Recovery outside control limits |
| J | Analyte detected between SDL and RL | N | Parameter not NELAC certified |

CLIENT: B-Environmental
Work Order: 1705121
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170515B

The QC data in batch 80436 applies to the following samples: 1705121-01A, 1705121-02A, 1705121-03A, 1705121-04A, 1705121-05A, 1705121-06A

| | | | |
|---------------------------|--------------------------------|--|-----------------------------|
| Sample ID MB-80436 | Batch ID: 80436 | TestNo: SW6020A | Units: mg/L |
| SampType: MBLK | Run ID: ICP-MS5_170515B | Analysis Date: 5/15/2017 2:04:00 PM | Prep Date: 5/12/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|-----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | <0.000800 | 0.00250 | | | | | | | | |
| Arsenic | <0.00200 | 0.00500 | | | | | | | | |
| Barium | <0.00300 | 0.0100 | | | | | | | | |
| Beryllium | <0.000300 | 0.00100 | | | | | | | | |
| Boron | <0.0100 | 0.0300 | | | | | | | | |
| Cadmium | <0.000300 | 0.00100 | | | | | | | | |
| Calcium | <0.100 | 0.300 | | | | | | | | |
| Chromium | <0.00200 | 0.00500 | | | | | | | | |
| Cobalt | <0.00300 | 0.00500 | | | | | | | | |
| Lead | <0.000300 | 0.00100 | | | | | | | | |
| Lithium | <0.00500 | 0.0100 | | | | | | | | |
| Magnesium | <0.100 | 0.300 | | | | | | | | |
| Molybdenum | <0.00200 | 0.00500 | | | | | | | | |
| Potassium | <0.100 | 0.300 | | | | | | | | |
| Selenium | <0.00200 | 0.00500 | | | | | | | | |
| Sodium | <0.100 | 0.300 | | | | | | | | |
| Thallium | <0.000500 | 0.00150 | | | | | | | | |

| | | | |
|----------------------------|--------------------------------|--|-----------------------------|
| Sample ID LCS-80436 | Batch ID: 80436 | TestNo: SW6020A | Units: mg/L |
| SampType: LCS | Run ID: ICP-MS5_170515B | Analysis Date: 5/15/2017 2:06:00 PM | Prep Date: 5/12/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.184 | 0.00250 | 0.200 | 0 | 92.2 | 80 | 120 | | | |
| Arsenic | 0.191 | 0.00500 | 0.200 | 0 | 95.4 | 80 | 120 | | | |
| Barium | 0.187 | 0.0100 | 0.200 | 0 | 93.5 | 80 | 120 | | | |
| Beryllium | 0.188 | 0.00100 | 0.200 | 0 | 94.2 | 80 | 120 | | | |
| Boron | 0.180 | 0.0300 | 0.200 | 0 | 90.2 | 80 | 120 | | | |
| Cadmium | 0.182 | 0.00100 | 0.200 | 0 | 91.1 | 80 | 120 | | | |
| Calcium | 4.77 | 0.300 | 5.00 | 0 | 95.5 | 80 | 120 | | | |
| Chromium | 0.190 | 0.00500 | 0.200 | 0 | 94.9 | 80 | 120 | | | |
| Cobalt | 0.197 | 0.00500 | 0.200 | 0 | 98.3 | 80 | 120 | | | |
| Lead | 0.189 | 0.00100 | 0.200 | 0 | 94.3 | 80 | 120 | | | |
| Lithium | 0.188 | 0.0100 | 0.200 | 0 | 94.0 | 80 | 120 | | | |
| Magnesium | 4.83 | 0.300 | 5.00 | 0 | 96.7 | 80 | 120 | | | |
| Molybdenum | 0.187 | 0.00500 | 0.200 | 0 | 93.7 | 80 | 120 | | | |
| Potassium | 4.77 | 0.300 | 5.00 | 0 | 95.5 | 80 | 120 | | | |
| Selenium | 0.192 | 0.00500 | 0.200 | 0 | 95.9 | 80 | 120 | | | |
| Sodium | 4.89 | 0.300 | 5.00 | 0 | 97.8 | 80 | 120 | | | |
| Thallium | 0.191 | 0.00150 | 0.200 | 0 | 95.6 | 80 | 120 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705121
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170515B

| | | | | | | | |
|-----------|------------|-----------|-----------------|----------------|----------------------|------------|-----------|
| Sample ID | LCSD-80436 | Batch ID: | 80436 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | LCSD | Run ID: | ICP-MS5_170515B | Analysis Date: | 5/15/2017 2:08:00 PM | Prep Date: | 5/12/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | 0.185 | 0.00250 | 0.200 | 0 | 92.3 | 80 | 120 | 0.147 | 15 | |
| Arsenic | 0.188 | 0.00500 | 0.200 | 0 | 94.2 | 80 | 120 | 1.34 | 15 | |
| Barium | 0.186 | 0.0100 | 0.200 | 0 | 93.0 | 80 | 120 | 0.515 | 15 | |
| Beryllium | 0.189 | 0.00100 | 0.200 | 0 | 94.3 | 80 | 120 | 0.116 | 15 | |
| Boron | 0.189 | 0.0300 | 0.200 | 0 | 94.6 | 80 | 120 | 4.75 | 15 | |
| Cadmium | 0.182 | 0.00100 | 0.200 | 0 | 91.1 | 80 | 120 | 0.088 | 15 | |
| Calcium | 4.69 | 0.300 | 5.00 | 0 | 93.8 | 80 | 120 | 1.82 | 15 | |
| Chromium | 0.188 | 0.00500 | 0.200 | 0 | 94.1 | 80 | 120 | 0.865 | 15 | |
| Cobalt | 0.195 | 0.00500 | 0.200 | 0 | 97.3 | 80 | 120 | 0.973 | 15 | |
| Lead | 0.187 | 0.00100 | 0.200 | 0 | 93.7 | 80 | 120 | 0.721 | 15 | |
| Lithium | 0.188 | 0.0100 | 0.200 | 0 | 93.8 | 80 | 120 | 0.211 | 15 | |
| Magnesium | 4.80 | 0.300 | 5.00 | 0 | 96.1 | 80 | 120 | 0.613 | 15 | |
| Molybdenum | 0.187 | 0.00500 | 0.200 | 0 | 93.5 | 80 | 120 | 0.134 | 15 | |
| Potassium | 4.68 | 0.300 | 5.00 | 0 | 93.5 | 80 | 120 | 2.05 | 15 | |
| Selenium | 0.189 | 0.00500 | 0.200 | 0 | 94.5 | 80 | 120 | 1.47 | 15 | |
| Sodium | 4.85 | 0.300 | 5.00 | 0 | 96.9 | 80 | 120 | 0.901 | 15 | |
| Thallium | 0.190 | 0.00150 | 0.200 | 0 | 94.9 | 80 | 120 | 0.748 | 15 | |

| | | | | | | | |
|-----------|----------------|-----------|-----------------|----------------|----------------------|------------|-----------|
| Sample ID | 1705121-06A SD | Batch ID: | 80436 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | SD | Run ID: | ICP-MS5_170515B | Analysis Date: | 5/15/2017 2:13:00 PM | Prep Date: | 5/12/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|----------|---------|-----------|----------|------|----------|-----------|------|----------|------|
| Antimony | <0.00400 | 0.0125 | 0 | 0 | | | | 0 | 10 | |
| Arsenic | <0.0100 | 0.0250 | 0 | 0.00908 | | | | 0 | 10 | |
| Barium | 0.0867 | 0.0500 | 0 | 0.0880 | | | | 1.52 | 10 | |
| Beryllium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Boron | 0.917 | 0.150 | 0 | 0.867 | | | | 5.61 | 10 | |
| Cadmium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Chromium | <0.0100 | 0.0250 | 0 | 0.00443 | | | | 0 | 10 | |
| Cobalt | <0.0150 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Lead | <0.00150 | 0.00500 | 0 | 0.000664 | | | | 0 | 10 | |
| Lithium | <0.0250 | 0.0500 | 0 | 0.00960 | | | | 0 | 10 | |
| Magnesium | 9.61 | 1.50 | 0 | 9.83 | | | | 2.29 | 10 | |
| Molybdenum | <0.0100 | 0.0250 | 0 | 0.00960 | | | | 0 | 10 | |
| Potassium | 1.13 | 1.50 | 0 | 1.19 | | | | 5.11 | 10 | |
| Selenium | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Thallium | <0.00250 | 0.00750 | 0 | 0 | | | | 0 | 10 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705121
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170515B

| Sample ID | 1705121-06A PDS | Batch ID: | 80436 | TestNo: | SW6020A | Units: | mg/L | | | |
|------------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|------|----------|------|
| SampType: | PDS | Run ID: | ICP-MS5_170515B | Analysis Date: | 5/15/2017 2:36:00 PM | Prep Date: | 5/12/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Antimony | 0.188 | 0.00250 | 0.200 | 0 | 94.2 | 80 | 120 | | | |
| Arsenic | 0.195 | 0.00500 | 0.200 | 0.00908 | 92.9 | 80 | 120 | | | |
| Barium | 0.271 | 0.0100 | 0.200 | 0.0880 | 91.4 | 80 | 120 | | | |
| Beryllium | 0.198 | 0.00100 | 0.200 | 0 | 98.8 | 80 | 120 | | | |
| Boron | 1.02 | 0.0300 | 0.200 | 0.867 | 74.6 | 80 | 120 | | | S |
| Cadmium | 0.182 | 0.00100 | 0.200 | 0 | 91.1 | 80 | 120 | | | |
| Chromium | 0.199 | 0.00500 | 0.200 | 0.00443 | 97.4 | 80 | 120 | | | |
| Cobalt | 0.193 | 0.00500 | 0.200 | 0 | 96.3 | 80 | 120 | | | |
| Lead | 0.191 | 0.00100 | 0.200 | 0.000664 | 95.3 | 80 | 120 | | | |
| Lithium | 0.200 | 0.0100 | 0.200 | 0.00960 | 95.2 | 80 | 120 | | | |
| Magnesium | 14.3 | 0.300 | 5.00 | 9.83 | 89.3 | 80 | 120 | | | |
| Molybdenum | 0.196 | 0.00500 | 0.200 | 0.00960 | 93.0 | 80 | 120 | | | |
| Potassium | 5.82 | 0.300 | 5.00 | 1.19 | 92.6 | 80 | 120 | | | |
| Selenium | 0.179 | 0.00500 | 0.200 | 0 | 89.3 | 80 | 120 | | | |
| Thallium | 0.192 | 0.00150 | 0.200 | 0 | 96.1 | 80 | 120 | | | |

| Sample ID | 1705121-06A MS | Batch ID: | 80436 | TestNo: | SW6020A | Units: | mg/L | | | |
|------------|----------------|-----------|-----------------|----------------|----------------------|------------|-----------|------|----------|------|
| SampType: | MS | Run ID: | ICP-MS5_170515B | Analysis Date: | 5/15/2017 2:38:00 PM | Prep Date: | 5/12/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Antimony | 0.187 | 0.00250 | 0.200 | 0 | 93.7 | 80 | 120 | | | |
| Arsenic | 0.196 | 0.00500 | 0.200 | 0.00908 | 93.7 | 80 | 120 | | | |
| Barium | 0.274 | 0.0100 | 0.200 | 0.0880 | 93.2 | 80 | 120 | | | |
| Beryllium | 0.196 | 0.00100 | 0.200 | 0 | 98.2 | 80 | 120 | | | |
| Boron | 1.12 | 0.0300 | 0.200 | 0.867 | 126 | 80 | 120 | | | S |
| Cadmium | 0.183 | 0.00100 | 0.200 | 0 | 91.4 | 80 | 120 | | | |
| Calcium | 68.6 | 0.300 | 5.00 | 64.4 | 82.7 | 80 | 120 | | | |
| Chromium | 0.196 | 0.00500 | 0.200 | 0.00443 | 95.9 | 80 | 120 | | | |
| Cobalt | 0.192 | 0.00500 | 0.200 | 0 | 95.8 | 80 | 120 | | | |
| Lead | 0.193 | 0.00100 | 0.200 | 0.000664 | 96.1 | 80 | 120 | | | |
| Lithium | 0.204 | 0.0100 | 0.200 | 0.00960 | 97.1 | 80 | 120 | | | |
| Magnesium | 14.8 | 0.300 | 5.00 | 9.83 | 99.8 | 80 | 120 | | | |
| Molybdenum | 0.203 | 0.00500 | 0.200 | 0.00960 | 96.5 | 80 | 120 | | | |
| Potassium | 5.95 | 0.300 | 5.00 | 1.19 | 95.1 | 80 | 120 | | | |
| Selenium | 0.182 | 0.00500 | 0.200 | 0 | 91.0 | 80 | 120 | | | |
| Sodium | 110 | 0.300 | 5.00 | 106 | 94.4 | 80 | 120 | | | |
| Thallium | 0.193 | 0.00150 | 0.200 | 0 | 96.3 | 80 | 120 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705121
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170515B

| | | | |
|-----------------------------------|--------------------------------|--|-----------------------------|
| Sample ID: 1705121-06A MSD | Batch ID: 80436 | TestNo: SW6020A | Units: mg/L |
| SampType: MSD | Run ID: ICP-MS5_170515B | Analysis Date: 5/15/2017 2:40:00 PM | Prep Date: 5/12/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|----------|------|----------|-----------|-------|----------|------|
| Antimony | 0.188 | 0.00250 | 0.200 | 0 | 93.9 | 80 | 120 | 0.242 | 15 | |
| Arsenic | 0.195 | 0.00500 | 0.200 | 0.00908 | 92.8 | 80 | 120 | 0.920 | 15 | |
| Barium | 0.276 | 0.0100 | 0.200 | 0.0880 | 93.8 | 80 | 120 | 0.438 | 15 | |
| Beryllium | 0.192 | 0.00100 | 0.200 | 0 | 96.2 | 80 | 120 | 2.02 | 15 | |
| Boron | 1.08 | 0.0300 | 0.200 | 0.867 | 108 | 80 | 120 | 3.12 | 15 | |
| Cadmium | 0.183 | 0.00100 | 0.200 | 0 | 91.6 | 80 | 120 | 0.161 | 15 | |
| Calcium | 67.5 | 0.300 | 5.00 | 64.4 | 62.3 | 80 | 120 | 1.50 | 15 | S |
| Chromium | 0.192 | 0.00500 | 0.200 | 0.00443 | 94.0 | 80 | 120 | 1.98 | 15 | |
| Cobalt | 0.190 | 0.00500 | 0.200 | 0 | 95.0 | 80 | 120 | 0.882 | 15 | |
| Lead | 0.191 | 0.00100 | 0.200 | 0.000664 | 95.4 | 80 | 120 | 0.723 | 15 | |
| Lithium | 0.208 | 0.0100 | 0.200 | 0.00960 | 99.4 | 80 | 120 | 2.22 | 15 | |
| Magnesium | 14.5 | 0.300 | 5.00 | 9.83 | 94.0 | 80 | 120 | 1.97 | 15 | |
| Molybdenum | 0.202 | 0.00500 | 0.200 | 0.00960 | 96.3 | 80 | 120 | 0.145 | 15 | |
| Potassium | 5.83 | 0.300 | 5.00 | 1.19 | 92.7 | 80 | 120 | 2.06 | 15 | |
| Selenium | 0.181 | 0.00500 | 0.200 | 0 | 90.6 | 80 | 120 | 0.486 | 15 | |
| Sodium | 108 | 0.300 | 5.00 | 106 | 55.0 | 80 | 120 | 1.80 | 15 | S |
| Thallium | 0.193 | 0.00150 | 0.200 | 0 | 96.5 | 80 | 120 | 0.209 | 15 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705121
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170516A

The QC data in batch 80436 applies to the following samples: 1705121-01A, 1705121-02A, 1705121-03A, 1705121-04A, 1705121-05A, 1705121-06A

| | | | | | | | |
|-----------|----------------|-----------|-----------------|----------------|-----------------------|------------|-----------|
| Sample ID | 1705121-06A SD | Batch ID: | 80436 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | SD | Run ID: | ICP-MS5_170516A | Analysis Date: | 5/16/2017 12:33:00 PM | Prep Date: | 5/12/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| Calcium | 65.1 | 15.0 | 0 | 66.5 | | | | 2.05 | 10 | |
| Sodium | 112 | 15.0 | 0 | 113 | | | | 0.869 | 10 | |

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|-----------------------|------------|-----------|
| Sample ID | 1705121-06A PDS | Batch ID: | 80436 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | PDS | Run ID: | ICP-MS5_170516A | Analysis Date: | 5/16/2017 12:51:00 PM | Prep Date: | 5/12/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Calcium | 116 | 3.00 | 50.0 | 66.5 | 99.4 | 80 | 120 | | | |
| Sodium | 165 | 3.00 | 50.0 | 113 | 105 | 80 | 120 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705121
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_170515B

The QC data in batch 80464 applies to the following samples: 1705121-01C, 1705121-02C, 1705121-03C, 1705121-04C, 1705121-05C, 1705121-06C

| | | | |
|---------------------------|---------------------------------|---|------------------------------|
| Sample ID MB-80464 | Batch ID: 80464 | TestNo: M2320 B | Units: mg/L @ pH 4.23 |
| SampType: MBLK | Run ID: TITRATOR_170515B | Analysis Date: 5/15/2017 12:28:00 PM | Prep Date: 5/15/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Total (As CaCO3) | <20.0 | 20.0 | | | | | | | | |

| | | | |
|----------------------------|---------------------------------|---|-----------------------------|
| Sample ID LCS-80464 | Batch ID: 80464 | TestNo: M2320 B | Units: mg/L @ pH 4.1 |
| SampType: LCS | Run ID: TITRATOR_170515B | Analysis Date: 5/15/2017 12:32:00 PM | Prep Date: 5/15/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Total (As CaCO3) | 51.0 | 20.0 | 50.00 | 0 | 102 | 74 | 129 | | | |

| | | | |
|----------------------------------|---------------------------------|--|------------------------------|
| Sample ID 1705121-06C-DUP | Batch ID: 80464 | TestNo: M2320 B | Units: mg/L @ pH 4.52 |
| SampType: DUP | Run ID: TITRATOR_170515B | Analysis Date: 5/15/2017 2:35:00 PM | Prep Date: 5/15/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | 247 | 20.0 | 0 | 246.8 | | | | 0 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | 247 | 20.0 | 0 | 246.8 | | | | 0 | 20 | |

| | | | |
|----------------------------------|---------------------------------|--|------------------------------|
| Sample ID 1705122-01C-DUP | Batch ID: 80464 | TestNo: M2320 B | Units: mg/L @ pH 4.11 |
| SampType: DUP | Run ID: TITRATOR_170515B | Analysis Date: 5/15/2017 2:42:00 PM | Prep Date: 5/15/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | 43.1 | 20.0 | 0 | 39.10 | | | | 9.73 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | 43.1 | 20.0 | 0 | 39.10 | | | | 9.73 | 20 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified



2509 North River Road, Port Allen, Louisiana 70767
 1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01348

Request or PO Number: N/A

Client Sample ID: S171311605 (Batch 55171)

ARS Sample ID: ARS1-17-01348-001

Sample Collection Date: 05/11/17

Date Received: 05/12/17

Sample Matrix: Aqueous

Report Date: 06/07/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.283 | 0.149 | 0.155 | 0.059 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 06/01/17 7:39 | SCAUSEY | 94% |
| Ra-228 | 0.926 | 0.731 | 1.149 | 0.533 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 05/25/17 12:19 | SCAUSEY | 98% |

Project Manager Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

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 1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01348

Request or PO Number: N/A

Client Sample ID: S171311608 (Batch 55171)

ARS Sample ID: ARS1-17-01348-002

Sample Collection Date: 05/11/17

Date Received: 05/12/17

Sample Matrix: Aqueous

Report Date: 06/07/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.238 | 0.150 | 0.166 | 0.059 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 06/01/17 7:39 | SCAUSEY | 76% |
| Ra-228 | 1.586 | 0.981 | 1.468 | 0.680 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 05/25/17 12:19 | SCAUSEY | 78% |

Project Manager Review

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 1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01348

Request or PO Number: N/A

Client Sample ID: S171311609 (Batch 55171)

ARS Sample ID: ARS1-17-01348-003

Sample Collection Date: 05/11/17

Date Received: 05/12/17

Sample Matrix: Aqueous

Report Date: 06/07/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.281 | 0.166 | 0.216 | 0.090 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 06/01/17 7:39 | SCAUSEY | 96% |
| Ra-228 | 1.274 | 0.815 | 1.238 | 0.577 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 05/25/17 12:19 | SCAUSEY | 99% |

Project Manager Review

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2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01348

Request or PO Number: N/A

Client Sample ID: S171311610 (Batch 55171)

ARS Sample ID: ARS1-17-01348-004

Sample Collection Date: 05/11/17

Date Received: 05/12/17

Sample Matrix: Aqueous

Report Date: 06/07/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | NDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.532 | 0.214 | 0.208 | 0.085 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 06/01/17 7:39 | SCAUSEY | 103% |
| Ra-228 | 0.686 | 0.688 | 1.120 | 0.520 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 05/25/17 12:19 | SCAUSEY | 104% |

Project Manager Review

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 1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01348

Request or PO Number: N/A

Client Sample ID: S171311611 (Batch 55171)

ARS Sample ID: ARS1-17-01348-005

Sample Collection Date: 05/11/17

Date Received: 05/12/17

Sample Matrix: Aqueous

Report Date: 06/07/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.195 | 0.149 | 0.210 | 0.085 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/01/17 7:39 | SCAUSEY | 92% |
| Ra-228 | 0.630 | 0.774 | 1.288 | 0.599 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 05/25/17 12:19 | SCAUSEY | 87% |

Project Manager Review

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 1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01348

Request or PO Number: N/A

Client Sample ID: S171311612 (Batch 55171)

ARS Sample ID: ARS1-17-01348-006

Sample Collection Date: 05/11/17

Date Received: 05/12/17

Sample Matrix: Aqueous

Report Date: 06/07/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.289 | 0.159 | 0.180 | 0.071 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 06/01/17 7:39 | SCAUSEY | 98% |
| Ra-228 | 0.254 | 0.621 | 1.080 | 0.501 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 05/25/17 12:19 | SCAUSEY | 98% |

Project Manager Review

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INTERNATIONAL QC Results Report

2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

Sample Delivery Group: ARS1-17-01348

Laboratory Control Sample Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | LCS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|----------------------|
| ARS1-B17-00953 | LCS | RA-226 | 30.353 | 4.882 | 0.095 | 27.635 | N/A | pCi/L | ARS-010/EPA 903 | 6/1/17 9:39 | SC | 110 | 75%-125% |
| ARS1-B17-00953 | LCS | RA-228 | 31.965 | 5.361 | 1.075 | 39.784 | N/A | pCi/L | ARS-010/EPA 904 | 5/25/17 14:19 | SC | 80 | 75%-125% |

Blank Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|
| ARS1-B17-00953 | MBL | RA-226 | 0.027 | 0.048 | 0.086 | NA | U | pCi/L | ARS-010/EPA 903 | 6/1/17 9:39 | SC |
| ARS1-B17-00953 | MBL | RA-228 | -0.098 | 0.324 | 0.597 | NA | U | pCi/L | ARS-010/EPA 904 | 5/25/17 14:19 | SC |

RER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | RER | RER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-00953 | LCSD | RA-226 | 30.353 | 4.882 | 33.451 | 5.378 | N/A | pCi/L | ARS-010/EPA 903 | 6/1/17 9:39 | SC | 0.30 | < 1 |
| ARS1-B17-00953 | LCSD | RA-228 | 31.965 | 5.361 | 34.943 | 5.815 | N/A | pCi/L | ARS-010/EPA 904 | 5/25/17 14:19 | SC | 0.27 | < 1 |

DER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | DER | DER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-00953 | LCSD | RA-226 | 30.353 | 4.882 | 33.451 | 5.378 | N/A | pCi/L | ARS-010/EPA 903 | 6/1/17 9:39 | SC | 0.43 | < 3 |
| ARS1-B17-00953 | LCSD | RA-228 | 31.965 | 5.361 | 34.943 | 5.815 | N/A | pCi/L | ARS-010/EPA 904 | 5/25/17 14:19 | SC | 0.38 | < 3 |

Matrix Spike

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | MS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|---------------------|
| ARS1-B17-00953 | MS | Ra-226 | 62.161 | 10.006 | 0.149 | 56.874 | N/A | pCi/L | ARS-010/EPA 903 | 6/1/17 9:39 | SC | 109 | 60%-140% |
| ARS1-B17-00603 | MSD | Ra-226 | 58.097 | 9.353 | 0.143 | 56.120 | N/A | pCi/L | ARS-010/EPA 903 | 6/1/17 9:39 | SC | 104 | 60%-140% |
| ARS1-B17-00603 | MS | Ra-228 | 37.150 | 6.295 | 1.217 | 53.414 | N/A | pCi/L | ARS-010/EPA 904 | 5/25/17 14:19 | SC | 70 | 60%-140% |
| ARS1-B17-00953 | MSD | Ra-228 | 43.659 | 7.312 | 1.458 | 52.532 | N/A | pCi/L | ARS-010/EPA 904 | 5/25/17 14:19 | SC | 83 | 60%-140% |

Project Manager Review

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LELAP Certificate# 01949

NELAP Certificate # E87558



2609 North River Road • Port Allen, Louisiana 70767

1 (800) 491-4277 • Fax (225) 381-2896

Notes (Case Narrative):

Comments:

- 1.0) All MDA/MDC values are calculated on a sample specific basis.
- 2.0) Soil and Sludge analysis are reported on a wet basis or an as received basis unless otherwise indicated.
- 3.0) Data in this report are within the limits of uncertainty specified in the reference method unless otherwise specified.
- 4.0) Modified analysis procedures are procedures that are modified to meet the certain specifications. An example may be the use of a water method to analyze a solid matrix due to the lack of an officially recognized procedure for the analysis of the solid matrix. Modified analyses are indicated by the subsequent addition of "m" to the procedure number (i.e. 900.0M).
- 5.0) Total activity is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring radioactive decay chains and other prominent radioactive nuclides. Total activity may be lower than the actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not representative of nuclides that emit solely alpha or beta particles.
- 6.0) Ra-226 is determined via secular equilibrium with its daughter, Actinium 228 (Gamma Spectroscopy only).
- 7.0) U-238 is determined via secular equilibrium with its daughter, Thorium 234 (Gamma Spectroscopy only).
- 8.0) All gamma spectroscopy was performed utilizing high purity germanium detectors (HPGe).
- 9.0) ARS makes every attempt to match sample density to calibrated density; however, in some cases, it is not practical or possible to do so and data results may be affected (Gamma Spectroscopy only).
- 10.0) Gamma spectroscopy results are calculated values based on the ORTEC® GammaVision ENV32 Analysis Engine.
- 11.0) ACLASS DOD and ISO 17025 certification applies only to the following analytes and methods: Gross Alpha and Gross Beta (EPA 900, SM7110B&C, SW846 9310); Radium 226 (EPA 903, EPA 903.1, SM 7500 Ra-B, SW846 9315); Radium 228 (EPA 904, SM 7500 Ra-B, SW846 9320); Iodine-131(EPA 901.1); Uranium by ICPMS (EPA 200.8); Strontium 89/90 (EPA 905, Eichrom SRW01, HASL 300 Sr-03-RC); Tritium (EPA 906, EPA 906M); Gamma Emitters (EPA 901.1, SM7120B, HASL 300 Ga-01-R); Americium-241, Curium 242/244, Plutonium 239/240 and 241, Thorium 228/230/232, Uranium 234/233 and 238 (Eichrom ACW03 VBS); Lead 210 (HASL 300 Pb-01-RC, Eichrom OTW01); Polonium 210 (HASL 300 Po-01-RC, HASL 300 Po-02-RC); Technetium-99 (Eichrom TCW02, Eichrom TCS01M).

Method References:

- 1.0) EPA 600/4-80-032; Prescribed Procedures for the Measurements of Radioactivity in Drinking Water, August 1980.
- 2.0) Standard Methods for the Examination of Water and Wastewater (On-Line Edition)
- 3.0) EPA SW-846; Test Methods for Evaluating Solid Waste, (On-Line edition)
- 4.0) EPA 600/479-020; Methods for Chemical Analysis of Water and Waste, March 1983.
- 5.0) HASL 300; The Procedures Manual of the Environmental Measurements Laboratory, Volume I, 28th Edition February, 1997.

Definitions:

| | |
|----------|---|
| CRDL | Contract Required Detection Limit |
| CSU | Combined Standard Uncertainty |
| DLC | Decision Level Concentration (ANSI N42.23) or critical level |
| DO | Duplicate Original |
| DUP | Method Duplicate |
| LCS/LCSD | Laboratory Control Sample/Laboratory Control Sample Duplicate |
| MDA | Minimum Detectable Activity |
| MDC | (Minimum Detectable Concentration) minimum concentration of the analyte that ARS can detect utilizing the specific analysis |
| MBL | Method Blank |
| MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| N/A | Not Applicable |
| NP | Not Provided |
| NR | Not Referenced |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |

Data Qualifiers:

| | |
|----|--|
| B | The analyte is found in both the associated method blank and the sample. This flag indicates probable blank contamination. |
| D | Sample analysis accomplished through dilution. |
| J | The reported result is an estimated value above the limit of detection but outside of quantitation range (e.g., matrix interference was observed). |
| Q | One or more quality control criteria failed (e.g., LCS recovery, surrogate spike recovery, or CCV recovery). |
| U | Activity is below the MDC, MDA, MDL, or LOD |
| N | The analyte is a tentatively identified compound using mass spectrometry or any non-customer requested compounds that are tentatively identified. |
| * | LCS/LCSD or MS/MSD fails RPD criteria. |
| S | Spike |
| SC | Subcontracted out to another qualified laboratory |
| H | Holding time exceeded |

LELAP Cert# 01949

NELAP Cert# E87558

ARS-059-010

Revision: 9.1

Revision Date: 03-14-2017



Chain of Custody Record

Batch # 55771

TEMP UN-C: 7.4

Page 12 of 22

Customer / Report Information
 Name: Croft Creek Power
 Attention: Rick Coleman
 Address: _____
 Billing Information: Check box if Billing is the same as Report Information
 Address: _____
 Attention: _____
 Project: _____
 Comments: _____
 PO #: _____
 Requested Analysis: B C A E
 Completed By: _____
 Laboratory: _____

| Sample Information | Collected By: | Collected | | Matrix | Container | Preservative | Custody Seals Present |
|--------------------|---------------|-----------|------|--------|-----------|--|--|
| | | Date | Time | | | | |
| BV-10 | | 5-11-17 | 843 | G W | P 6 | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | Yes <input type="checkbox"/> Intact <input type="checkbox"/> No <input type="checkbox"/> |
| BV-1 | | 5-11-17 | 1040 | | | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | Yes <input type="checkbox"/> Intact <input type="checkbox"/> No <input type="checkbox"/> |
| BV-5 | | 5-11-17 | 1130 | | | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | Yes <input type="checkbox"/> Intact <input type="checkbox"/> No <input type="checkbox"/> |
| BV-19 | | 5-11-17 | 1001 | | | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | Yes <input type="checkbox"/> Intact <input type="checkbox"/> No <input type="checkbox"/> |
| mw-6 | | 5-11-17 | 1310 | | | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | Yes <input type="checkbox"/> Intact <input type="checkbox"/> No <input type="checkbox"/> |
| mw-7 | | 5-11-17 | 1340 | | | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | Yes <input type="checkbox"/> Intact <input type="checkbox"/> No <input type="checkbox"/> |

Required Turnaround: Routine (6-10 Business Days) Expedite / Rush: 1 Business Day 2 Business Days 3 Business Days 5 Business Days Other _____

Surcharge will apply to RUSHYTAT Authorized By: _____

Relinquished By: _____ Date: 5-11-17 Time: 15:35 Received By: _____ Date: 5-11-17 Time: 15:35

Relinquished By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____

Relinquished By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____

1606 E Brazos Suite D, Victoria, Texas 77901 Ph: (361) 572-8224 Fax: (361) 572-4115 Toll Free: 1-800-460-8223 Form #1000-0-2 REV 1.2 Email: kbenviro@suddenlinkmail.com www.benviro.com

FW: MW: 0.25 MW L; Metals: Ba, Ca, Sb, As, Bi, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, Mg, K, Ni, N, Hg



Chain of Custody Record

Batch # 55171

TEMP U.N.C: 7.4

Page 2 of 2

Customer / Report Information
 Name: CORRO CREEK POWER
 Attention: RICK COEMMAN
 Address: _____
 Billing Information: Check box if Billing is the same as Report Information
 Address: _____
 Attention: _____
 Project: _____
 Comments: CCR SAMPLING
 PO #: _____
 Phone: 361-788-5145
 Email: RICHARD.COEMMAN@DREWY.COM
 THERM ID # 3
 TEMP CORR: 7.2
 Requested Analysis: _____
 Completed By Laboratory: _____

| Collected By: | Collected | | Matrix | Container | Preservative | Custody Seals Present |
|---------------|-----------|------|--|-----------|--------------|--|
| | Date | Time | | | | |
| | | | DW - Drinking H2O S - Solid WW - Waste H2O SL - Sludge L - Liquid W - Water | | | Yes <input type="checkbox"/> No <input type="checkbox"/> |

| Client / Field Sample ID | Collected | | Matrix | Container | Preservative | Custody Seals Present |
|--------------------------|-----------|------|--------|-----------|--------------|---|
| | Date | Time | | | | |
| MS - MW7 | 5-11-17 | 1340 | G | W | P6 550 | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| MSD - MW7 | 5-11-17 | 1340 | | | | Yes <input type="checkbox"/> No <input type="checkbox"/> |

Required Turnaround: Routine (6-10 Business Days) Expedite / Rush: 1 Business Day 2 Business Days 3 Business Days 5 Business Days Other _____

Surcharge will apply to RUSH JAT Authorized By: _____

| | | | | | |
|------------------------|---------------|-------------|--------------------|---------------|-------------|
| Relinquished By: _____ | Date: 5-11-17 | Time: 15:35 | Received By: _____ | Date: 5-11-17 | Time: 15:35 |
| Relinquished By: _____ | Date: _____ | Time: _____ | Received By: _____ | Date: _____ | Time: _____ |
| Relinquished By: _____ | Date: _____ | Time: _____ | Received By: _____ | Date: _____ | Time: _____ |

1606 E Brazos Suite D, Victoria, Texas 77901 Ph: (361) 572-8224 Fax: (361) 572-4115 Toll Free 1-800-460-8223 Form #1000-0-2 REV 1.2 Email: kbern@suddenlinkmail.com www.benvironmental.net

FLUORIDE: 0.25 MG/L; METALS: B, Ca, Sb, As, Ba, Be, Cd, Cr, CO, Pb, Li, Mo, Se, Tl, Mg, K, Ni, S, Hg

BatchNo: 55339

SAMPLE REPORT



T104704328-17-14

Business

Coletto Creek Power - R Coleman
PO Box 8
Fannin TX 77960
Att: Rick Coleman



Laboratory

B Environmental, LLC.
1606 E Brazos, Suite D
Victoria TX 77901
ph. 361-572-8224

Reference Information

Project: CCR Sampling
Printed: Friday, June 23,
2017

Re: Coletto Creek Power - R Coleman

Dear: Rick Coleman

Attached are the results for sample(s) received on 5/15/2017

The analytical results relate only to the samples tested.
All supporting quality data meets the requirements of NELAC unless noted in the case narrative section of the report.

This report contains 46 pages (including the cover page)

If you have any questions concerning this report, please do not hesitate to call (361) 572-8224 or Fax us at (361) 572-4115

Respectfully Submitted,

Kevin Baros
Laboratory Director



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BatchNo: 55339

Victoria TX 77901

Batch No:

Sample Receipt Checklist

Date Received:

Project Received By:

Login completed by:

Carrier Name

- YES NO Not Present
- YES NO Not Present
- YES NO Not Present
- YES NO
- YES NO
- YES NO
- YES NO
- YES NO
- YES NO
- YES NO
- YES NO >0 <6 °C On Ice
- YES NO No VOA Vials submitted
- YES NO Not Applicable

*TEMP pH Adjusted? Checked By

Any No and/or N/A (not applicable) response must be detailed in the comments section below.

Client contacted PersonContacted

Contacted by: Date Contacted:

Regarding

Comments

Corrective Action



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BatchNo: 55339

Victoria TX 77901

Sample Report Information



| | | | | | |
|-------------------|-------------------|-------------------|--------------|-----------------|---------------|
| Sample ID: | S171361013 | Client ID: | BV-15 | Sampler: | Client |
|-------------------|-------------------|-------------------|--------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman

Batch No: 55339

Study: Water

Sampled: 5/15/2017 9:57 AM

Project: CCR Sampling

Location: BV 15

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 59 | mg/L | EPA 300 | K Baros | 5/17/2017 19:48 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 186 | mg/L | SM 2320 B | | 5/18/2017 12:26 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 5/18/2017 12:26 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 186 | mg/L | SM 2320 B | | 5/18/2017 12:26 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.8 | mg/L | EPA 300 | K Baros | 5/17/2017 19:48 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.32 | SU | SM 4500-H+B | C Watts | 5/15/2017 16:30 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 448 | mg/L | SM2540C | C Watts | 5/18/2017 16:30 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 5/19/2017 13:54 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 93.9 | mg/L | EPA 300 | K Baros | 5/17/2017 19:48 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 6/14/2017 7:44 | | | | | <input checked="" type="checkbox"/> | ARS International |



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BatchNo: 55339

Victoria TX 77901

Sample Report Information



| | | |
|------------------------------|------------------------|------------------------|
| Sample ID: S171361016 | Client ID: MW-4 | Sampler: Client |
|------------------------------|------------------------|------------------------|

Client: Coletto Creek Power - R Coleman
Study: Water
Project: CCR Sampling
Location: MW #4
Notes:

Batch No: 55339
Sampled: 5/15/2017 9:08 AM
Type: Grab
Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 101 | mg/L | EPA 300 | K Baros | 5/17/2017 19:48 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 239 | mg/L | SM 2320 B | | 5/18/2017 12:35 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 5/18/2017 12:35 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 239 | mg/L | SM 2320 B | | 5/18/2017 12:35 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.6 | mg/L | EPA 300 | K Baros | 5/17/2017 19:48 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.07 | SU | SM 4500-H+B | C Watts | 5/15/2017 16:30 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 702 | mg/L | SM2540C | C Watts | 5/18/2017 16:30 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 5/19/2017 13:56 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 157 | mg/L | EPA 300 | K Baros | 5/17/2017 19:48 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 6/14/2017 7:44 | | | | | <input checked="" type="checkbox"/> | ARS International |



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Sample Report Information



| | | | | | |
|-------------------|-------------------|-------------------|-------------|-----------------|---------------|
| Sample ID: | S171361017 | Client ID: | MW-8 | Sampler: | Client |
|-------------------|-------------------|-------------------|-------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman
 Study: Water
 Project: CCR Sampling
 Location: MW #8
 Notes:

Batch No: 55339
 Sampled: 5/15/2017 10:58 AM
 Type: Grab
 Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 76 | mg/L | EPA 300 | K Baros | 5/17/2017 19:48 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 258 | mg/L | SM 2320 B | | 5/18/2017 12:45 | 10 | 10 | | | <input type="checkbox"/> | |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 5/18/2017 12:45 | 10 | 10 | | | <input type="checkbox"/> | |
| Alkalinity, Total | 258 | mg/L | SM 2320 B | | 5/18/2017 12:45 | 10 | 10 | | | <input type="checkbox"/> | |
| Fluoride, IC | 0.44 | mg/L | EPA 300 | K Baros | 5/17/2017 19:48 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.05 | SU | SM 4500-H+B | C Watts | 5/15/2017 16:30 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 558 | mg/L | SM2540C | C Watts | 5/18/2017 16:30 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 5/19/2017 13:37 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 79 | mg/L | EPA 300 | K Baros | 5/17/2017 19:48 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 6/14/2017 7:44 | | | | | <input checked="" type="checkbox"/> | ARS International |



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BatchNo: 55339

Sample Report Information



| | | | |
|------------------------------|-----------------------|-----------------|---------------|
| Sample ID: S171361018 | Client ID: DUP | Sampler: | Client |
|------------------------------|-----------------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman
 Study: Water
 Project: CCR Sampling
 Location: Dup
 Notes:

Batch No: 55339
 Sampled: 5/15/2017 10:58 AM
 Type: Grab
 Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 101 | mg/L | EPA 300 | K Baros | 5/17/2017 19:48 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 241 | mg/L | SM 2320 B | | 5/18/2017 13:03 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 5/18/2017 13:03 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 241 | mg/L | SM 2320 B | | 5/18/2017 13:03 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.6 | mg/L | EPA 300 | K Baros | 5/17/2017 19:48 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 6.95 | SU | SM 4500-H+B | C Watts | 5/15/2017 16:30 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 686 | mg/L | SM2540C | C Watts | 5/18/2017 16:30 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 5/19/2017 14:12 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 157 | mg/L | EPA 300 | K Baros | 5/17/2017 19:48 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 6/14/2017 7:44 | | | | | <input checked="" type="checkbox"/> | ARS International |



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Sample Report Information



| | | |
|------------------------------|-------------------------|------------------------|
| Sample ID: S171361019 | Client ID: BV-19 | Sampler: Client |
|------------------------------|-------------------------|------------------------|

Client: Coleta Creek Power - R Coleman
 Study: Water
 Project: CCR Sampling
 Location: BV-19
 Notes:

Batch No: 55339
 Sampled: 5/15/2017 1:38 PM
 Type: Grab
 Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 122 | mg/L | EPA 300 | K Baros | 5/17/2017 19:48 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 320 | mg/L | SM 2320 B | | 5/18/2017 13:15 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 5/18/2017 13:15 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 320 | mg/L | SM 2320 B | | 5/18/2017 13:15 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.49 | mg/L | EPA 300 | K Baros | 5/17/2017 19:48 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 6.92 | SU | SM 4500-H+B | C Watts | 5/15/2017 16:00 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 684 | mg/L | SM2540C | C Watts | 5/22/2017 17:00 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 5/19/2017 14:14 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 62 | mg/L | EPA 300 | K Baros | 5/17/2017 19:48 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 6/14/2017 7:44 | | | | | | <input checked="" type="checkbox"/> ARS International |



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Victoria TX 77901

Sample Report Information



| | | |
|------------------------------|-------------------------|------------------------|
| Sample ID: S171361020 | Client ID: BV-10 | Sampler: Client |
|------------------------------|-------------------------|------------------------|

Client: Coletto Creek Power - R Coleman
Study: Water
Project: CCR Sampling
Location: BV-10
Notes:

Batch No: 55339
Sampled: 5/15/2017 2:12 PM
Type: Grab
Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 85 | mg/L | EPA 300 | K Baros | 5/17/2017 19:48 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 284 | mg/L | SM 2320 B | | 5/18/2017 13:25 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 5/18/2017 13:25 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 284 | mg/L | SM 2320 B | | 5/18/2017 13:25 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.79 | mg/L | EPA 300 | K Baros | 5/17/2017 19:48 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.38 | SU | SM 4500-H+B | C Watts | 5/15/2017 16:30 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 626 | mg/L | SM2540C | C Watts | 5/22/2017 17:00 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 5/19/2017 14:16 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 83 | mg/L | EPA 300 | K Baros | 5/17/2017 19:48 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 6/16/2017 9:29 | | | | | <input checked="" type="checkbox"/> | ARS International |



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Sample Report Information



| | | |
|------------------------------|------------------------|------------------------|
| Sample ID: S171361021 | Client ID: BV-1 | Sampler: Client |
|------------------------------|------------------------|------------------------|

Client: Coletto Creek Power - R Coleman
Study: Water
Project: CCR Sampling
Location: BV-1
Notes:

Batch No: 55339
Sampled: 5/15/2017 2:46 PM
Type: Grab
Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 145 | mg/L | EPA 300 | K Baros | 5/17/2017 19:48 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 386 | mg/L | SM 2320 B | | 5/18/2017 13:39 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 5/18/2017 13:39 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 386 | mg/L | SM 2320 B | | 5/18/2017 13:39 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.71 | mg/L | EPA 300 | K Baros | 5/17/2017 19:48 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.04 | SU | SM 4500-H+B | C Watts | 5/15/2017 16:30 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 980 | mg/L | SM2540C | C Watts | 5/22/2017 17:00 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 5/19/2017 14:18 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 182 | mg/L | EPA 300 | K Baros | 5/17/2017 19:48 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 6/16/2017 9:29 | | | | | <input checked="" type="checkbox"/> | ARS International |



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BatchNo: 55339

Sample Report Information



| | | | | | |
|------------|-------------------|------------|--------------|----------|---------------|
| Sample ID: | S171361026 | Client ID: | Blank | Sampler: | Client |
|------------|-------------------|------------|--------------|----------|---------------|

Client: Coletto Creek Power - R Coleman
 Study: Water
 Project: CCR Sampling
 Location: Blank
 Notes:

Batch No: 55339
 Sampled: 5/15/2017 2:55 PM
 Type: Grab
 Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | < 1 | mg/L | EPA 300 | K Baros | 5/17/2017 19:48 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | < 20 | mg/L | SM 2320 B | | 5/18/2017 13:41 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 5/18/2017 13:41 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | < 20 | mg/L | SM 2320 B | | 5/18/2017 13:41 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | < 0.25 | mg/L | EPA 300 | K Baros | 5/17/2017 19:48 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 5.48 | SU | SM 4500-H+B | C Watts | 5/15/2017 16:30 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | < 25 | mg/L | SM2540C | C Watts | 5/22/2017 17:00 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 5/19/2017 14:20 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | < 1 | mg/L | EPA 300 | K Baros | 5/17/2017 19:48 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 6/16/2017 9:29 | | | | | <input checked="" type="checkbox"/> | ARS International |



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BatchNo: 55339

Victoria TX 77901



QA Summary Report

| Parameter | ID | Result | Ref Value | Amt Added | LOQ | Qualifier | Control | Flag | Comments |
|------------------------------------|------------|-----------|-----------|-----------|------|-----------|---------|----------|-------------------------------|
| Method Blank | | | | | | | | | |
| - Chloride, IC | Q171461202 | <1mg/L | 0 | | | 1 | 1 | | Blank Acceptable. |
| 5/17/2017 13:27 | | | | | | | | | |
| Fluoride, IC | Q171461202 | <0.25mg/L | 0 | | 0.25 | | 0.25 | | Blank Acceptable. |
| 5/17/2017 13:27 | | | | | | | | | |
| Solids, Total Dissolved | Q171391407 | <25mg/L | 0 | | 10 | | 25 | | Blank Acceptable. |
| 5/18/2017 16:30 | | | | | | | | | |
| Solids, Total Dissolved | Q171431400 | <25mg/L | 0 | | 10 | | 25 | | Blank Acceptable. |
| 5/22/2017 17:00 | | | | | | | | | |
| Sulfate, IC | Q171461202 | <1mg/L | 0 | | | 1 | 1 | | Blank Acceptable. |
| 5/17/2017 13:27 | | | | | | | | | |
| Duplicate | | | | | | | | | |
| pH (Standard Units) | Q171361622 | 7.05SU | 7.1 | | | 2 | 0.7% | 20 | Duplicate RPD Acceptable. |
| 5/15/2017 16:30 | | | | | | | | | |
| Solids, Total Dissolved | Q171391408 | 554mg/L | 558 | | | 10 | 0.7% | 20 | Duplicate RPD Acceptable. |
| 5/18/2017 16:30 | | | | | | | | | |
| Solids, Total Dissolved | Q171431403 | 4520mg/L | 4550 | | | 10 | 0.7% | 20 | Duplicate RPD Acceptable. |
| 5/22/2017 17:00 | | | | | | | | | |
| Laboratory Control Standard | | | | | | | | | |
| - Chloride, IC | Q171461203 | 25.4mg/L | 25 | | | 1 | 101.6% | 80 - 120 | Standard Recovery Acceptable. |
| 5/17/2017 14:05 | | | | | | | 1.6% | 20 | Standard RPD Acceptable. |
| Fluoride, IC | Q171461203 | 2.07mg/L | 2 | | 0.25 | | 103.5% | 80 - 120 | Standard Recovery Acceptable. |
| 5/17/2017 14:05 | | | | | | | 3.4% | 20 | Standard RPD Acceptable. |
| pH (Standard Units) | Q171361620 | 7.03SU | 7 | | | 2 | 100.4% | 80 - 120 | Standard Recovery Acceptable. |
| 5/15/2017 16:30 | | | | | | | 0.4% | 20 | Standard RPD Acceptable. |
| Sulfate, IC | Q171461203 | 25.8mg/L | 25 | | | 1 | 103.2% | 80 - 120 | Standard Recovery Acceptable. |
| 5/17/2017 14:05 | | | | | | | 3.1% | 20 | Standard RPD Acceptable. |
| Matrix Spike | | | | | | | | | |
| - Chloride, IC | Q171461204 | 85.3mg/L | 82.1 | 25 | | 1 | 112.8% | 80 - 120 | Spike Recovery Acceptable. |
| 5/18/2017 12:57 | | | | | | | 3.8% | 20 | Spike RPD Acceptable. |
| - Chloride, IC | Q17146120A | 93.8mg/L | 93 | 25 | | 1 | 103.2% | 80 - 120 | Spike Recovery Acceptable. |
| 5/17/2017 22:58 | | | | | | | 0.9% | 20 | Spike RPD Acceptable. |
| Fluoride, IC | Q17146120A | 2.28mg/L | 2.39 | 2 | 0.25 | | 94.5% | 80 - 120 | Spike Recovery Acceptable. |
| 5/17/2017 22:58 | | | | | | | 4.7% | 20 | Spike RPD Acceptable. |
| Fluoride, IC | Q171461204 | 2.95mg/L | 3.12 | 2 | 0.25 | | 91.5% | 80 - 120 | Spike Recovery Acceptable. |
| 5/18/2017 12:57 | | | | | | | 5.6% | 20 | Spike RPD Acceptable. |
| Sulfate, IC | Q17146120A | 96.1mg/L | 96 | 25 | | 1 | 100.4% | 70 - 130 | Spike Recovery Acceptable. |
| 5/17/2017 22:58 | | | | | | | 0.1% | 20 | Spike RPD Acceptable. |
| Sulfate, IC | Q171461204 | 77mg/L | 83 | 25 | | 1 | 76.0% | 70 - 130 | Spike Recovery Acceptable. |
| 5/18/2017 12:57 | | | | | | | 7.5% | 20 | Spike RPD Acceptable. |



B Environmental, LLC. 1606 E Brazos, Suite D Victoria TX 77901

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B Environmental, LLC.
1606 E Brazos, Suite D

BatchNo: 55339

Victoria TX 77901

| Parameter | ID | Result | Ref Value | Amt Added | LOQ | Qualifier | Control | Flag | Comments |
|-------------------------|------------|----------|-----------|-----------|------|-----------|----------|------|----------------------------|
| Matrix Spike Dup | | | | | | | | | |
| - Chloride, IC | Q17146120B | 93.8mg/L | 93 | 25 | 1 | 103.2% | 80 - 120 | | Spike Recovery Acceptable. |
| 5/17/2017 23:36 | | | | | | 0.9% | 20 | | Spike RPD Acceptable. |
| - Chloride, IC | Q17146120C | 85mg/L | 82.1 | 25 | 1 | 111.6% | 80 - 120 | | Spike Recovery Acceptable. |
| 5/18/2017 13:35 | | | | | | 3.5% | 20 | | Spike RPD Acceptable. |
| Fluoride, IC | Q17146120B | 2.28mg/L | 2.39 | 2 | 0.25 | 94.5% | 80 - 120 | | Spike Recovery Acceptable. |
| 5/17/2017 23:36 | | | | | | 4.7% | 20 | | Spike RPD Acceptable. |
| Fluoride, IC | Q17146120C | 2.93mg/L | 3.12 | 2 | 0.25 | 90.5% | 80 - 120 | | Spike Recovery Acceptable. |
| 5/18/2017 13:35 | | | | | | 6.3% | 20 | | Spike RPD Acceptable. |
| Sulfate, IC | Q17146120C | 77mg/L | 83 | 25 | 1 | 76.0% | 70 - 130 | | Spike Recovery Acceptable. |
| 5/18/2017 13:35 | | | | | | 7.5% | 20 | | Spike RPD Acceptable. |
| Sulfate, IC | Q17146120B | 96.2mg/L | 96 | 25 | 1 | 100.8% | 70 - 130 | | Spike Recovery Acceptable. |
| 5/17/2017 23:36 | | | | | | 0.2% | 20 | | Spike RPD Acceptable. |

Flag and Qualifier Legend

| | | | |
|---|--|--|---|
|  | Negative - Result Detected | MDL = Method Detection Limit | DF = Dilution Factor |
|  | Caution - Problem Detected | LOQ = Limit of Quantitation | j = Analyte detected between MDL and LOQ |
|  | Warning - Null Value | S = surrogate standard out of limit | H = sample out of hold time |
|  | MS, MSD, RPD- Failure may occur due to matrix interference, data released per QA plan | | |

Friday, June 23, 2017

B Environmental - LDMS QA Report Summary

Note:

THANK YOU!



B Environmental, LLC.

1606 E Brazos, Suite D

Victoria TX 77901

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DHL Analytical, Inc.

Date: 24-May-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Lab Order: 1705169

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition and Standard Methods.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives except where noted in the following. For Total Metals Analysis, the recoveries of up to three analytes for the Matrix Spike and Matrix Spike Duplicate (1705169-03 MS/MSD) were below the method control limits. These are flagged accordingly in the QC Summary Report. These analytes were within method control limits in the associated LCS. No further corrective action was taken.

For Total Metals Analysis, the recoveries of two analytes for the Post Digestion Spike (1705169-03 PDS) were below the method control limits. These are flagged accordingly in the QC Summary Report. These analytes were within method control limits in the associated Serial Dilution. No further corrective action was taken.

For Total/Dissolved Metals Analysis, the results of dissolved Lithium/Molybdenum for three samples were slightly higher than the results of total Lithium/Molybdenum. The results were within acceptable analytical variation limits. No further corrective action was taken.

DHL Analytical, Inc.

Date: 24-May-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (55339)
Lab Order: 1705169

Client Sample ID: BV-15
Lab ID: 1705169-01
Alternate ID: S171361013
Collection Date: 05/15/17 09:58 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|-----------|----------------|---------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 0.00696 | 0.00500 | 0.0100 | J | mg/L | 1 | 05/19/17 02:58 PM |
| Dissolved Molybdenum | 0.0186 | 0.00200 | 0.00500 | | mg/L | 1 | 05/19/17 02:58 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 05/19/17 01:54 PM |
| Arsenic | 0.00920 | 0.00200 | 0.00500 | | mg/L | 1 | 05/19/17 01:54 PM |
| Barium | 0.0521 | 0.00300 | 0.0100 | | mg/L | 1 | 05/19/17 01:54 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/22/17 02:11 PM |
| Boron | 1.29 | 0.100 | 0.300 | | mg/L | 10 | 05/22/17 01:08 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/19/17 01:54 PM |
| Calcium | 64.6 | 1.00 | 3.00 | | mg/L | 10 | 05/22/17 01:08 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/19/17 01:54 PM |
| Cobalt | 0.0126 | 0.00300 | 0.00500 | | mg/L | 1 | 05/19/17 01:54 PM |
| Lead | 0.00440 | 0.000300 | 0.00100 | | mg/L | 1 | 05/19/17 01:54 PM |
| Lithium | 0.00698 | 0.00500 | 0.0100 | J | mg/L | 1 | 05/19/17 01:54 PM |
| Magnesium | 9.02 | 0.100 | 0.300 | | mg/L | 1 | 05/19/17 01:54 PM |
| Molybdenum | 0.0186 | 0.00200 | 0.00500 | | mg/L | 1 | 05/19/17 01:54 PM |
| Potassium | 1.22 | 0.100 | 0.300 | | mg/L | 1 | 05/19/17 01:54 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/19/17 01:54 PM |
| Sodium | 76.4 | 1.00 | 3.00 | | mg/L | 10 | 05/22/17 01:08 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 05/19/17 01:54 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.000800 | 0.000800 | 0.00200 | | mg/L | 1 | 05/23/17 09:58 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 186 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/18/17 12:26 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/18/17 12:26 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/18/17 12:26 PM |
| Alkalinity, Total (As CaCO3) | 186 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/18/17 12:26 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern J Analyte detected between MDL and RL
 MDL Method Detection Limit ND Not Detected at the Method Detection Limit
 RL Reporting Limit S Spike Recovery outside control limits Page 1 of 8

DHL Analytical, Inc.

Date: 24-May-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (55339)
Lab Order: 1705169

Client Sample ID: MW-4
Lab ID: 1705169-02
Alternate ID: S171361016
Collection Date: 05/15/17 09:08 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 0.0166 | 0.00500 | 0.0100 | | mg/L | 1 | 05/19/17 03:00 PM |
| Dissolved Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/19/17 03:00 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 05/19/17 01:56 PM |
| Arsenic | 0.00794 | 0.00200 | 0.00500 | | mg/L | 1 | 05/19/17 01:56 PM |
| Barium | 0.0566 | 0.00300 | 0.0100 | | mg/L | 1 | 05/19/17 01:56 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/22/17 01:54 PM |
| Boron | 0.251 | 0.0100 | 0.0300 | | mg/L | 1 | 05/22/17 01:54 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/19/17 01:56 PM |
| Calcium | 92.1 | 1.00 | 3.00 | | mg/L | 10 | 05/22/17 01:10 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/19/17 01:56 PM |
| Cobalt | 0.00653 | 0.00300 | 0.00500 | | mg/L | 1 | 05/19/17 01:56 PM |
| Lead | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/19/17 01:56 PM |
| Lithium | 0.0166 | 0.00500 | 0.0100 | | mg/L | 1 | 05/19/17 01:56 PM |
| Magnesium | 17.2 | 0.100 | 0.300 | | mg/L | 1 | 05/19/17 01:56 PM |
| Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/19/17 01:56 PM |
| Potassium | 1.47 | 0.100 | 0.300 | | mg/L | 1 | 05/19/17 01:56 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/19/17 01:56 PM |
| Sodium | 106 | 1.00 | 3.00 | | mg/L | 10 | 05/22/17 01:10 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 05/19/17 01:56 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 05/23/17 10:00 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 239 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 05/18/17 12:35 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 05/18/17 12:35 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 05/18/17 12:35 PM |
| Alkalinity, Total (As CaCO3) | 239 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 05/18/17 12:35 PM |

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- B Analyte detected in the associated Method Blank
- C Sample Result or QC discussed in the Case Narrative
- DF Dilution Factor
- E TPH pattern not Gas or Diesel Range Pattern
- J Analyte detected between MDL and RL
- MDL Method Detection Limit
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 24-May-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR Sampling (55339)
Lab Order: 1705169

Client Sample ID: MW-8
Lab ID: 1705169-03
Alternate ID: S171361017
Collection Date: 05/15/17 10:58 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 0.0106 | 0.00500 | 0.0100 | | mg/L | 1 | 05/19/17 02:44 PM |
| Dissolved Molybdenum | 0.0160 | 0.00200 | 0.00500 | | mg/L | 1 | 05/19/17 02:44 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 05/19/17 01:37 PM |
| Arsenic | 0.00926 | 0.00200 | 0.00500 | | mg/L | 1 | 05/19/17 01:37 PM |
| Barium | 0.0640 | 0.00300 | 0.0100 | | mg/L | 1 | 05/19/17 01:37 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/22/17 02:07 PM |
| Boron | 1.16 | 0.100 | 0.300 | | mg/L | 10 | 05/22/17 12:50 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/19/17 01:37 PM |
| Calcium | 81.2 | 1.00 | 3.00 | | mg/L | 10 | 05/22/17 12:50 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/19/17 01:37 PM |
| Cobalt | 0.0311 | 0.00300 | 0.00500 | | mg/L | 1 | 05/19/17 01:37 PM |
| Lead | 0.000494 | 0.000300 | 0.00100 | J | mg/L | 1 | 05/19/17 01:37 PM |
| Lithium | 0.0112 | 0.00500 | 0.0100 | | mg/L | 1 | 05/19/17 01:37 PM |
| Magnesium | 12.8 | 0.100 | 0.300 | | mg/L | 1 | 05/19/17 01:37 PM |
| Molybdenum | 0.0160 | 0.00200 | 0.00500 | | mg/L | 1 | 05/19/17 01:37 PM |
| Potassium | 1.02 | 0.100 | 0.300 | | mg/L | 1 | 05/19/17 01:37 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/19/17 01:37 PM |
| Sodium | 87.5 | 1.00 | 3.00 | | mg/L | 10 | 05/22/17 12:50 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 05/19/17 01:37 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 05/23/17 10:02 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 258 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/18/17 12:45 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/18/17 12:45 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/18/17 12:45 PM |
| Alkalinity, Total (As CaCO3) | 258 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/18/17 12:45 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 24-May-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR Sampling (55339)
Lab Order: 1705169

Client Sample ID: Dup
Lab ID: 1705169-04
Alternate ID: S171361018
Collection Date: 05/15/17
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|-----------|----------------|---------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 0.0161 | 0.00500 | 0.0100 | | mg/L | 1 | 05/19/17 03:02 PM |
| Dissolved Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/19/17 03:02 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 05/19/17 02:12 PM |
| Arsenic | 0.00814 | 0.00200 | 0.00500 | | mg/L | 1 | 05/19/17 02:12 PM |
| Barium | 0.0551 | 0.00300 | 0.0100 | | mg/L | 1 | 05/19/17 02:12 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/19/17 02:12 PM |
| Boron | 0.245 | 0.0100 | 0.0300 | | mg/L | 1 | 05/22/17 01:56 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/19/17 02:12 PM |
| Calcium | 92.0 | 1.00 | 3.00 | | mg/L | 10 | 05/22/17 01:28 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/19/17 02:12 PM |
| Cobalt | 0.00648 | 0.00300 | 0.00500 | | mg/L | 1 | 05/19/17 02:12 PM |
| Lead | 0.000536 | 0.000300 | 0.00100 | J | mg/L | 1 | 05/19/17 02:12 PM |
| Lithium | 0.0178 | 0.00500 | 0.0100 | | mg/L | 1 | 05/19/17 02:12 PM |
| Magnesium | 17.2 | 0.100 | 0.300 | | mg/L | 1 | 05/19/17 02:12 PM |
| Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/19/17 02:12 PM |
| Potassium | 1.44 | 0.100 | 0.300 | | mg/L | 1 | 05/19/17 02:12 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/19/17 02:12 PM |
| Sodium | 107 | 1.00 | 3.00 | | mg/L | 10 | 05/22/17 01:28 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 05/19/17 02:12 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.000800 | 0.000800 | 0.00200 | | mg/L | 1 | 05/23/17 10:14 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 241 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/18/17 01:03 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/18/17 01:03 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/18/17 01:03 PM |
| Alkalinity, Total (As CaCO3) | 241 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/18/17 01:03 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 24-May-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR Sampling (55339)
Lab Order: 1705169

Client Sample ID: BV-19
Lab ID: 1705169-05
Alternate ID: S171361019
Collection Date: 05/15/17 01:38 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|--------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 0.0130 | 0.00500 | 0.0100 | | mg/L | 1 | 05/19/17 03:04 PM |
| Dissolved Molybdenum | 0.00487 | 0.00200 | 0.00500 | J | mg/L | 1 | 05/19/17 03:04 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 05/19/17 02:14 PM |
| Arsenic | 0.00872 | 0.00200 | 0.00500 | | mg/L | 1 | 05/19/17 02:14 PM |
| Barium | 0.0916 | 0.00300 | 0.0100 | | mg/L | 1 | 05/19/17 02:14 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/19/17 02:14 PM |
| Boron | 0.754 | 0.100 | 0.300 | | mg/L | 10 | 05/22/17 01:30 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/19/17 02:14 PM |
| Calcium | 10.1 | 1.00 | 3.00 | | mg/L | 10 | 05/22/17 01:30 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/19/17 02:14 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 05/19/17 02:14 PM |
| Lead | 0.000348 | 0.000300 | 0.00100 | J | mg/L | 1 | 05/19/17 02:14 PM |
| Lithium | 0.0138 | 0.00500 | 0.0100 | | mg/L | 1 | 05/19/17 02:14 PM |
| Magnesium | 23.1 | 0.100 | 0.300 | | mg/L | 1 | 05/19/17 02:14 PM |
| Molybdenum | 0.00470 | 0.00200 | 0.00500 | J | mg/L | 1 | 05/19/17 02:14 PM |
| Potassium | 0.692 | 0.100 | 0.300 | | mg/L | 1 | 05/19/17 02:14 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/19/17 02:14 PM |
| Sodium | 88.5 | 1.00 | 3.00 | | mg/L | 10 | 05/22/17 01:30 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 05/19/17 02:14 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 05/23/17 10:16 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 320 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 05/18/17 01:15 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 05/18/17 01:15 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 05/18/17 01:15 PM |
| Alkalinity, Total (As CaCO3) | 320 | 20.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 05/18/17 01:15 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern
 J Analyte detected between MDL and RL
 MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 24-May-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (55339)
Lab Order: 1705169

Client Sample ID: BV-10
Lab ID: 1705169-06
Alternate ID: S171361020
Collection Date: 05/15/17 02:12 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 0.0102 | 0.00500 | 0.0100 | | mg/L | 1 | 05/19/17 03:23 PM |
| Dissolved Molybdenum | 0.00777 | 0.00200 | 0.00500 | | mg/L | 1 | 05/19/17 03:23 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 05/19/17 02:16 PM |
| Arsenic | 0.0133 | 0.00200 | 0.00500 | | mg/L | 1 | 05/19/17 02:16 PM |
| Barium | 0.0499 | 0.00300 | 0.0100 | | mg/L | 1 | 05/19/17 02:16 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/19/17 02:16 PM |
| Boron | 1.07 | 0.100 | 0.300 | | mg/L | 10 | 05/22/17 01:32 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/19/17 02:16 PM |
| Calcium | 40.2 | 1.00 | 3.00 | | mg/L | 10 | 05/22/17 01:32 PM |
| Chromium | 0.00445 | 0.00200 | 0.00500 | J | mg/L | 1 | 05/19/17 02:16 PM |
| Cobalt | 0.212 | 0.00300 | 0.00500 | | mg/L | 1 | 05/19/17 02:16 PM |
| Lead | 0.00420 | 0.000300 | 0.00100 | | mg/L | 1 | 05/19/17 02:16 PM |
| Lithium | 0.0110 | 0.00500 | 0.0100 | | mg/L | 1 | 05/19/17 02:16 PM |
| Magnesium | 7.21 | 0.100 | 0.300 | | mg/L | 1 | 05/19/17 02:16 PM |
| Molybdenum | 0.00763 | 0.00200 | 0.00500 | | mg/L | 1 | 05/19/17 02:16 PM |
| Potassium | 0.781 | 0.100 | 0.300 | | mg/L | 1 | 05/19/17 02:16 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/19/17 02:16 PM |
| Sodium | 167 | 1.00 | 3.00 | | mg/L | 10 | 05/22/17 01:32 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 05/19/17 02:16 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 05/23/17 10:23 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 284 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 05/18/17 01:25 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 05/18/17 01:25 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 05/18/17 01:25 PM |
| Alkalinity, Total (As CaCO3) | 284 | 20.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 05/18/17 01:25 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 24-May-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (55339)
Lab Order: 1705169

Client Sample ID: BV-1
Lab ID: 1705169-07
Alternate ID: S171361021
Collection Date: 05/15/17 02:46 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|------|----------------|----|---------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | | | | Analyst: SP |
| Dissolved Lithium | 0.0142 | 0.00500 | 0.0100 | | mg/L | 1 | 05/19/17 03:25 PM |
| Dissolved Molybdenum | 0.00431 | 0.00200 | 0.00500 | J | mg/L | 1 | 05/19/17 03:25 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | | | | Analyst: SP |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 05/19/17 02:18 PM |
| Arsenic | 0.0106 | 0.00200 | 0.00500 | | mg/L | 1 | 05/19/17 02:18 PM |
| Barium | 0.0463 | 0.00300 | 0.0100 | | mg/L | 1 | 05/19/17 02:18 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/19/17 02:18 PM |
| Boron | 1.23 | 0.200 | 0.600 | | mg/L | 20 | 05/22/17 01:34 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/19/17 02:18 PM |
| Calcium | 68.4 | 2.00 | 6.00 | | mg/L | 20 | 05/22/17 01:34 PM |
| Chromium | 0.00897 | 0.00200 | 0.00500 | | mg/L | 1 | 05/19/17 02:18 PM |
| Cobalt | 0.372 | 0.00300 | 0.00500 | | mg/L | 1 | 05/19/17 02:18 PM |
| Lead | 0.00560 | 0.000300 | 0.00100 | | mg/L | 1 | 05/19/17 02:18 PM |
| Lithium | 0.0141 | 0.00500 | 0.0100 | | mg/L | 1 | 05/19/17 02:18 PM |
| Magnesium | 10.9 | 0.100 | 0.300 | | mg/L | 1 | 05/19/17 02:18 PM |
| Molybdenum | 0.00424 | 0.00200 | 0.00500 | J | mg/L | 1 | 05/19/17 02:18 PM |
| Potassium | 0.577 | 0.100 | 0.300 | | mg/L | 1 | 05/19/17 02:18 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/19/17 02:18 PM |
| Sodium | 255 | 2.00 | 6.00 | | mg/L | 20 | 05/22/17 01:34 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 05/19/17 02:18 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | | | Analyst: AH |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 05/23/17 10:25 AM |
| ALKALINITY | | M2320 B | | | | | Analyst: BTJ |
| Alkalinity, Bicarbonate (As CaCO3) | 386 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 05/18/17 01:39 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 05/18/17 01:39 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 05/18/17 01:39 PM |
| Alkalinity, Total (As CaCO3) | 386 | 20.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 05/18/17 01:39 PM |

Qualifiers:

| | | | |
|-----|---|----|---|
| * | Value exceeds TCLP Maximum Concentration Level | B | Analyte detected in the associated Method Blank |
| C | Sample Result or QC discussed in the Case Narrative | DF | Dilution Factor |
| E | TPH pattern not Gas or Diesel Range Pattern | J | Analyte detected between MDL and RL |
| MDL | Method Detection Limit | ND | Not Detected at the Method Detection Limit |
| RL | Reporting Limit | S | Spike Recovery outside control limits |

Page 7 of 8

DHL Analytical, Inc.

Date: 24-May-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (55339)
Lab Order: 1705169

Client Sample ID: Blank
Lab ID: 1705169-08
Alternate ID: S171361026
Collection Date: 05/15/17 02:55 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|------|----------------|----|---------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | | | | Analyst: SP |
| Dissolved Lithium | <0.00500 | 0.00500 | 0.0100 | | mg/L | 1 | 05/19/17 03:27 PM |
| Dissolved Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/19/17 03:27 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | | | | Analyst: SP |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 05/19/17 02:20 PM |
| Arsenic | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/19/17 02:20 PM |
| Barium | <0.00300 | 0.00300 | 0.0100 | | mg/L | 1 | 05/19/17 02:20 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/19/17 02:20 PM |
| Boron | <0.0100 | 0.0100 | 0.0300 | | mg/L | 1 | 05/22/17 01:36 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/19/17 02:20 PM |
| Calcium | 0.166 | 0.100 | 0.300 | J | mg/L | 1 | 05/19/17 02:20 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/19/17 02:20 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 05/19/17 02:20 PM |
| Lead | 0.000395 | 0.000300 | 0.00100 | J | mg/L | 1 | 05/19/17 02:20 PM |
| Lithium | <0.00500 | 0.00500 | 0.0100 | | mg/L | 1 | 05/19/17 02:20 PM |
| Magnesium | <0.100 | 0.100 | 0.300 | | mg/L | 1 | 05/19/17 02:20 PM |
| Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/19/17 02:20 PM |
| Potassium | <0.100 | 0.100 | 0.300 | | mg/L | 1 | 05/19/17 02:20 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/19/17 02:20 PM |
| Sodium | <0.100 | 0.100 | 0.300 | | mg/L | 1 | 05/22/17 01:36 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 05/19/17 02:20 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | | | Analyst: AH |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 05/23/17 10:27 AM |
| ALKALINITY | | M2320 B | | | | | Analyst: BTJ |
| Alkalinity, Bicarbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/18/17 01:41 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/18/17 01:41 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/18/17 01:41 PM |
| Alkalinity, Total (As CaCO3) | <20.0 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/18/17 01:41 PM |

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds TCLP Maximum Concentration Level | B Analyte detected in the associated Method Blank |
| | C Sample Result or QC discussed in the Case Narrative | DF Dilution Factor |
| | E TPH pattern not Gas or Diesel Range Pattern | J Analyte detected between MDL and RL |
| | MDL Method Detection Limit | ND Not Detected at the Method Detection Limit |
| | RL Reporting Limit | S Spike Recovery outside control limits |

DHL Analytical, Inc.

Date: 24-May-17

CLIENT: B-Environmental
Work Order: 1705169
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_170523A

The QC data in batch 80511 applies to the following samples: 1705169-01A, 1705169-02A, 1705169-03A, 1705169-04A, 1705169-05A, 1705169-06A, 1705169-07A, 1705169-08A

| | | | |
|---------------------------|----------------------------------|--|-----------------------------|
| Sample ID MB-80511 | Batch ID: 80511 | TestNo: SW7470A | Units: mg/L |
| SampType: MBLK | Run ID: CETAC2_HG_170523A | Analysis Date: 5/23/2017 9:40:18 AM | Prep Date: 5/18/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|------------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | <0.0000800 | 0.000200 | | | | | | | | |

| | | | |
|----------------------------|----------------------------------|--|-----------------------------|
| Sample ID LCS-80511 | Batch ID: 80511 | TestNo: SW7470A | Units: mg/L |
| SampType: LCS | Run ID: CETAC2_HG_170523A | Analysis Date: 5/23/2017 9:42:34 AM | Prep Date: 5/18/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00200 | 0.000200 | 0.00200 | 0 | 100 | 85 | 115 | | | |

| | | | |
|-----------------------------|----------------------------------|--|-----------------------------|
| Sample ID LCSD-80511 | Batch ID: 80511 | TestNo: SW7470A | Units: mg/L |
| SampType: LCSD | Run ID: CETAC2_HG_170523A | Analysis Date: 5/23/2017 9:44:50 AM | Prep Date: 5/18/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00194 | 0.000200 | 0.00200 | 0 | 97.0 | 85 | 115 | 3.05 | 15 | |

| | | | |
|---------------------------------|----------------------------------|---|-----------------------------|
| Sample ID 1705169-03A SD | Batch ID: 80511 | TestNo: SW7470A | Units: mg/L |
| SampType: SD | Run ID: CETAC2_HG_170523A | Analysis Date: 5/23/2017 10:05:13 AM | Prep Date: 5/18/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|-----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | <0.000400 | 0.00100 | 0 | 0 | | | | 0 | 10 | |

| | | | |
|----------------------------------|----------------------------------|---|-----------------------------|
| Sample ID 1705169-03A PDS | Batch ID: 80511 | TestNo: SW7470A | Units: mg/L |
| SampType: PDS | Run ID: CETAC2_HG_170523A | Analysis Date: 5/23/2017 10:07:29 AM | Prep Date: 5/18/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00241 | 0.000200 | 0.00250 | 0 | 96.4 | 85 | 115 | | | |

| | | | |
|---------------------------------|----------------------------------|---|-----------------------------|
| Sample ID 1705169-03A MS | Batch ID: 80511 | TestNo: SW7470A | Units: mg/L |
| SampType: MS | Run ID: CETAC2_HG_170523A | Analysis Date: 5/23/2017 10:09:45 AM | Prep Date: 5/18/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00194 | 0.000200 | 0.00200 | 0 | 97.0 | 80 | 120 | | | |

| | | | |
|----------------------------------|----------------------------------|---|-----------------------------|
| Sample ID 1705169-03A MSD | Batch ID: 80511 | TestNo: SW7470A | Units: mg/L |
| SampType: MSD | Run ID: CETAC2_HG_170523A | Analysis Date: 5/23/2017 10:12:01 AM | Prep Date: 5/18/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00196 | 0.000200 | 0.00200 | 0 | 98.0 | 80 | 120 | 1.03 | 15 | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705169
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170519A

The QC data in batch 80504 applies to the following samples: 1705169-01A, 1705169-02A, 1705169-03A, 1705169-04A, 1705169-05A, 1705169-06A, 1705169-07A, 1705169-08A

| | | | | | | | |
|-----------|-----------------|-----------|------------------------|----------------|-----------------------------|------------|------------------|
| Sample ID | MB-80504 | Batch ID: | 80504 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | MBLK | Run ID: | ICP-MS4_170519A | Analysis Date: | 5/19/2017 1:29:00 PM | Prep Date: | 5/18/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|-----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | <0.000800 | 0.00250 | | | | | | | | |
| Arsenic | <0.00200 | 0.00500 | | | | | | | | |
| Barium | <0.00300 | 0.0100 | | | | | | | | |
| Cadmium | <0.000300 | 0.00100 | | | | | | | | |
| Calcium | <0.100 | 0.300 | | | | | | | | |
| Chromium | <0.00200 | 0.00500 | | | | | | | | |
| Cobalt | <0.00300 | 0.00500 | | | | | | | | |
| Lead | <0.000300 | 0.00100 | | | | | | | | |
| Lithium | <0.00500 | 0.0100 | | | | | | | | |
| Magnesium | <0.100 | 0.300 | | | | | | | | |
| Molybdenum | <0.00200 | 0.00500 | | | | | | | | |
| Potassium | <0.100 | 0.300 | | | | | | | | |
| Selenium | <0.00200 | 0.00500 | | | | | | | | |
| Thallium | <0.000500 | 0.00150 | | | | | | | | |

| | | | | | | | |
|-----------|------------------|-----------|------------------------|----------------|-----------------------------|------------|------------------|
| Sample ID | LCS-80504 | Batch ID: | 80504 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | LCS | Run ID: | ICP-MS4_170519A | Analysis Date: | 5/19/2017 1:31:00 PM | Prep Date: | 5/18/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.191 | 0.00250 | 0.200 | 0 | 95.5 | 80 | 120 | | | |
| Arsenic | 0.200 | 0.00500 | 0.200 | 0 | 99.9 | 80 | 120 | | | |
| Barium | 0.193 | 0.0100 | 0.200 | 0 | 96.3 | 80 | 120 | | | |
| Cadmium | 0.194 | 0.00100 | 0.200 | 0 | 96.9 | 80 | 120 | | | |
| Calcium | 4.90 | 0.300 | 5.00 | 0 | 98.1 | 80 | 120 | | | |
| Chromium | 0.199 | 0.00500 | 0.200 | 0 | 99.6 | 80 | 120 | | | |
| Cobalt | 0.200 | 0.00500 | 0.200 | 0 | 99.9 | 80 | 120 | | | |
| Lead | 0.190 | 0.00100 | 0.200 | 0 | 95.1 | 80 | 120 | | | |
| Lithium | 0.195 | 0.0100 | 0.200 | 0 | 97.4 | 80 | 120 | | | |
| Magnesium | 5.04 | 0.300 | 5.00 | 0 | 101 | 80 | 120 | | | |
| Molybdenum | 0.189 | 0.00500 | 0.200 | 0 | 94.5 | 80 | 120 | | | |
| Potassium | 5.05 | 0.300 | 5.00 | 0 | 101 | 80 | 120 | | | |
| Selenium | 0.198 | 0.00500 | 0.200 | 0 | 98.9 | 80 | 120 | | | |
| Thallium | 0.194 | 0.00150 | 0.200 | 0 | 96.8 | 80 | 120 | | | |

| | | | | | | | |
|-----------|-------------------|-----------|------------------------|----------------|-----------------------------|------------|------------------|
| Sample ID | LCSD-80504 | Batch ID: | 80504 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | LCSD | Run ID: | ICP-MS4_170519A | Analysis Date: | 5/19/2017 1:33:00 PM | Prep Date: | 5/18/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.194 | 0.00250 | 0.200 | 0 | 97.2 | 80 | 120 | 1.67 | 15 | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705169
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170519A

| Sample ID | LCSD-80504 | Batch ID: | 80504 | TestNo: | SW6020A | Units: | mg/L | | | |
|------------|------------|-----------|-----------------|----------------|----------------------|------------|-----------|-------|----------|------|
| SampType: | LCSD | Run ID: | ICP-MS4_170519A | Analysis Date: | 5/19/2017 1:33:00 PM | Prep Date: | 5/18/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Arsenic | 0.199 | 0.00500 | 0.200 | 0 | 99.3 | 80 | 120 | 0.590 | 15 | |
| Barium | 0.194 | 0.0100 | 0.200 | 0 | 97.1 | 80 | 120 | 0.797 | 15 | |
| Cadmium | 0.196 | 0.00100 | 0.200 | 0 | 97.9 | 80 | 120 | 1.06 | 15 | |
| Calcium | 4.91 | 0.300 | 5.00 | 0 | 98.1 | 80 | 120 | 0.054 | 15 | |
| Chromium | 0.200 | 0.00500 | 0.200 | 0 | 99.9 | 80 | 120 | 0.251 | 15 | |
| Cobalt | 0.198 | 0.00500 | 0.200 | 0 | 99.1 | 80 | 120 | 0.821 | 15 | |
| Lead | 0.191 | 0.00100 | 0.200 | 0 | 95.7 | 80 | 120 | 0.672 | 15 | |
| Lithium | 0.197 | 0.0100 | 0.200 | 0 | 98.3 | 80 | 120 | 0.925 | 15 | |
| Magnesium | 5.09 | 0.300 | 5.00 | 0 | 102 | 80 | 120 | 0.878 | 15 | |
| Molybdenum | 0.191 | 0.00500 | 0.200 | 0 | 95.7 | 80 | 120 | 1.25 | 15 | |
| Potassium | 5.09 | 0.300 | 5.00 | 0 | 102 | 80 | 120 | 0.781 | 15 | |
| Selenium | 0.198 | 0.00500 | 0.200 | 0 | 99.1 | 80 | 120 | 0.218 | 15 | |
| Thallium | 0.196 | 0.00150 | 0.200 | 0 | 98.0 | 80 | 120 | 1.26 | 15 | |

| Sample ID | 1705169-03A SD | Batch ID: | 80504 | TestNo: | SW6020A | Units: | mg/L | | | |
|------------|----------------|-----------|-----------------|----------------|----------------------|------------|-----------|-------|----------|------|
| SampType: | SD | Run ID: | ICP-MS4_170519A | Analysis Date: | 5/19/2017 1:39:00 PM | Prep Date: | 5/18/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Antimony | <0.00400 | 0.0125 | 0 | 0 | | | | 0 | 10 | |
| Arsenic | <0.0100 | 0.0250 | 0 | 0.00926 | | | | 0 | 10 | |
| Barium | 0.0642 | 0.0500 | 0 | 0.0640 | | | | 0.340 | 10 | |
| Cadmium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Chromium | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Cobalt | 0.0320 | 0.0250 | 0 | 0.0311 | | | | 2.83 | 10 | |
| Lead | <0.00150 | 0.00500 | 0 | 0.000494 | | | | 0 | 10 | |
| Lithium | <0.0250 | 0.0500 | 0 | 0.0112 | | | | 0 | 10 | |
| Magnesium | 13.2 | 1.50 | 0 | 12.8 | | | | 2.85 | 10 | |
| Molybdenum | 0.0173 | 0.0250 | 0 | 0.0161 | | | | 7.25 | 10 | |
| Potassium | 1.06 | 1.50 | 0 | 1.02 | | | | 4.36 | 10 | |
| Selenium | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Thallium | <0.00250 | 0.00750 | 0 | 0 | | | | 0 | 10 | |

| Sample ID | 1705169-03A PDS | Batch ID: | 80504 | TestNo: | SW6020A | Units: | mg/L | | | |
|-----------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|------|----------|------|
| SampType: | PDS | Run ID: | ICP-MS4_170519A | Analysis Date: | 5/19/2017 1:58:00 PM | Prep Date: | 5/18/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Antimony | 0.198 | 0.00250 | 0.200 | 0 | 99.0 | 80 | 120 | | | |
| Arsenic | 0.187 | 0.00500 | 0.200 | 0.00926 | 89.1 | 80 | 120 | | | |
| Barium | 0.235 | 0.0100 | 0.200 | 0.0640 | 85.4 | 80 | 120 | | | |
| Cadmium | 0.164 | 0.00100 | 0.200 | 0 | 82.1 | 80 | 120 | | | |
| Chromium | 0.176 | 0.00500 | 0.200 | 0 | 87.8 | 80 | 120 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705169
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170519A

| | | | | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|--|--|--|
| Sample ID | 1705169-03A PDS | Batch ID: | 80504 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | PDS | Run ID: | ICP-MS4_170519A | Analysis Date: | 5/19/2017 1:58:00 PM | Prep Date: | 5/18/2017 | | | |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|----------|------|----------|-----------|------|----------|------|
| Cobalt | 0.196 | 0.00500 | 0.200 | 0.0311 | 82.6 | 80 | 120 | | | |
| Lead | 0.168 | 0.00100 | 0.200 | 0.000494 | 83.6 | 80 | 120 | | | |
| Lithium | 0.162 | 0.0100 | 0.200 | 0.0112 | 75.3 | 80 | 120 | | | S |
| Magnesium | 16.5 | 0.300 | 5.00 | 12.8 | 75.0 | 80 | 120 | | | S |
| Molybdenum | 0.177 | 0.00500 | 0.200 | 0.0160 | 80.4 | 80 | 120 | | | |
| Potassium | 6.05 | 0.300 | 5.00 | 1.02 | 101 | 80 | 120 | | | |
| Selenium | 0.172 | 0.00500 | 0.200 | 0 | 86.1 | 80 | 120 | | | |
| Thallium | 0.173 | 0.00150 | 0.200 | 0 | 86.4 | 80 | 120 | | | |

| | | | | | | | | | | |
|-----------|----------------|-----------|-----------------|----------------|----------------------|------------|-----------|--|--|--|
| Sample ID | 1705169-03A MS | Batch ID: | 80504 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | MS | Run ID: | ICP-MS4_170519A | Analysis Date: | 5/19/2017 2:00:00 PM | Prep Date: | 5/18/2017 | | | |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|----------|------|----------|-----------|------|----------|------|
| Antimony | 0.196 | 0.00250 | 0.200 | 0 | 97.8 | 80 | 120 | | | |
| Arsenic | 0.210 | 0.00500 | 0.200 | 0.00926 | 100 | 80 | 120 | | | |
| Barium | 0.256 | 0.0100 | 0.200 | 0.0640 | 96.2 | 80 | 120 | | | |
| Cadmium | 0.183 | 0.00100 | 0.200 | 0 | 91.7 | 80 | 120 | | | |
| Calcium | 83.5 | 0.300 | 5.00 | 80.8 | 54.0 | 80 | 120 | | | S |
| Chromium | 0.190 | 0.00500 | 0.200 | 0 | 95.1 | 80 | 120 | | | |
| Cobalt | 0.214 | 0.00500 | 0.200 | 0.0311 | 91.5 | 80 | 120 | | | |
| Lead | 0.186 | 0.00100 | 0.200 | 0.000494 | 93.0 | 80 | 120 | | | |
| Lithium | 0.185 | 0.0100 | 0.200 | 0.0112 | 86.9 | 80 | 120 | | | |
| Magnesium | 16.9 | 0.300 | 5.00 | 12.8 | 82.9 | 80 | 120 | | | |
| Molybdenum | 0.200 | 0.00500 | 0.200 | 0.0160 | 92.0 | 80 | 120 | | | |
| Potassium | 6.05 | 0.300 | 5.00 | 1.02 | 101 | 80 | 120 | | | |
| Selenium | 0.192 | 0.00500 | 0.200 | 0 | 96.1 | 80 | 120 | | | |
| Thallium | 0.194 | 0.00150 | 0.200 | 0 | 97.1 | 80 | 120 | | | |

| | | | | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|--|--|--|
| Sample ID | 1705169-03A MSD | Batch ID: | 80504 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | MSD | Run ID: | ICP-MS4_170519A | Analysis Date: | 5/19/2017 2:02:00 PM | Prep Date: | 5/18/2017 | | | |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|---------|-----------|----------|------|----------|-----------|-------|----------|------|
| Antimony | 0.195 | 0.00250 | 0.200 | 0 | 97.3 | 80 | 120 | 0.498 | 15 | |
| Arsenic | 0.207 | 0.00500 | 0.200 | 0.00926 | 99.1 | 80 | 120 | 1.04 | 15 | |
| Barium | 0.257 | 0.0100 | 0.200 | 0.0640 | 96.6 | 80 | 120 | 0.357 | 15 | |
| Cadmium | 0.182 | 0.00100 | 0.200 | 0 | 90.8 | 80 | 120 | 1.04 | 15 | |
| Calcium | 83.1 | 0.300 | 5.00 | 80.8 | 46.6 | 80 | 120 | 0.441 | 15 | S |
| Chromium | 0.189 | 0.00500 | 0.200 | 0 | 94.4 | 80 | 120 | 0.724 | 15 | |
| Cobalt | 0.213 | 0.00500 | 0.200 | 0.0311 | 90.9 | 80 | 120 | 0.566 | 15 | |
| Lead | 0.185 | 0.00100 | 0.200 | 0.000494 | 92.1 | 80 | 120 | 0.911 | 15 | |
| Lithium | 0.184 | 0.0100 | 0.200 | 0.0112 | 86.3 | 80 | 120 | 0.648 | 15 | |

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
 J Analyte detected between MDL and RL MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
 RL Reporting Limit S Spike Recovery outside control limits
 J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705169
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170519A

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|
| Sample ID | 1705169-03A MSD | Batch ID: | 80504 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | MSD | Run ID: | ICP-MS4_170519A | Analysis Date: | 5/19/2017 2:02:00 PM | Prep Date: | 5/18/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|-------|----------|------|
| Magnesium | 17.0 | 0.300 | 5.00 | 12.8 | 83.7 | 80 | 120 | 0.232 | 15 | |
| Molybdenum | 0.200 | 0.00500 | 0.200 | 0.0160 | 91.9 | 80 | 120 | 0.141 | 15 | |
| Potassium | 5.97 | 0.300 | 5.00 | 1.02 | 99.0 | 80 | 120 | 1.26 | 15 | |
| Selenium | 0.190 | 0.00500 | 0.200 | 0 | 94.8 | 80 | 120 | 1.42 | 15 | |
| Thallium | 0.193 | 0.00150 | 0.200 | 0 | 96.6 | 80 | 120 | 0.587 | 15 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705169
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170519A

The QC data in batch 80508 applies to the following samples: 1705169-01B, 1705169-02B, 1705169-03B, 1705169-04B, 1705169-05B, 1705169-06B, 1705169-07B, 1705169-08B

Sample ID **MB-80508** Batch ID: **80508** TestNo: **SW6020A** Units: **mg/L**
 SampType: **MBLK** Run ID: **ICP-MS4_170519A** Analysis Date: **5/19/2017 2:36:00 PM** Prep Date: **5/18/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Lithium | <0.00500 | 0.0100 | | | | | | | | |
| Molybdenum | <0.00200 | 0.00500 | | | | | | | | |

Sample ID **LCS-80508** Batch ID: **80508** TestNo: **SW6020A** Units: **mg/L**
 SampType: **LCS** Run ID: **ICP-MS4_170519A** Analysis Date: **5/19/2017 2:38:00 PM** Prep Date: **5/18/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Lithium | 0.189 | 0.0100 | 0.200 | 0 | 94.3 | 80 | 120 | | | |
| Molybdenum | 0.185 | 0.00500 | 0.200 | 0 | 92.7 | 80 | 120 | | | |

Sample ID **LCSD-80508** Batch ID: **80508** TestNo: **SW6020A** Units: **mg/L**
 SampType: **LCSD** Run ID: **ICP-MS4_170519A** Analysis Date: **5/19/2017 2:40:00 PM** Prep Date: **5/18/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|-------|----------|------|
| Lithium | 0.188 | 0.0100 | 0.200 | 0 | 93.9 | 80 | 120 | 0.519 | 15 | |
| Molybdenum | 0.186 | 0.00500 | 0.200 | 0 | 92.9 | 80 | 120 | 0.196 | 15 | |

Sample ID **1705169-03B SD** Batch ID: **80508** TestNo: **SW6020A** Units: **mg/L**
 SampType: **SD** Run ID: **ICP-MS4_170519A** Analysis Date: **5/19/2017 2:46:00 PM** Prep Date: **5/18/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|---------|--------|-----------|---------|------|----------|-----------|------|----------|------|
| Lithium | <0.0250 | 0.0500 | 0 | 0.0106 | | | | 0 | 10 | |
| Molybdenum | 0.0164 | 0.0250 | 0 | 0.0160 | | | | 2.65 | 10 | |

Sample ID **1705169-03B PDS** Batch ID: **80508** TestNo: **SW6020A** Units: **mg/L**
 SampType: **PDS** Run ID: **ICP-MS4_170519A** Analysis Date: **5/19/2017 3:06:00 PM** Prep Date: **5/18/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Lithium | 0.182 | 0.0100 | 0.200 | 0.0106 | 85.5 | 80 | 120 | | | |
| Molybdenum | 0.196 | 0.00500 | 0.200 | 0.0160 | 90.0 | 80 | 120 | | | |

Sample ID **1705169-03B MS** Batch ID: **80508** TestNo: **SW6020A** Units: **mg/L**
 SampType: **MS** Run ID: **ICP-MS4_170519A** Analysis Date: **5/19/2017 3:08:00 PM** Prep Date: **5/18/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Dissolved Lithium | 0.187 | 0.0100 | 0.200 | 0.0106 | 88.4 | 80 | 120 | | | |
| Dissolved Molybdenum | 0.205 | 0.00500 | 0.200 | 0.0160 | 94.4 | 80 | 120 | | | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705169
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170519A

| Sample ID: 1705169-03B MSD | Batch ID: 80508 | TestNo: SW6020A | Units: mg/L | | | | | | | |
|-----------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: MSD | Run ID: ICP-MS4_170519A | Analysis Date: 5/19/2017 3:10:00 PM | Prep Date: 5/18/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Dissolved Lithium | 0.185 | 0.0100 | 0.200 | 0.0106 | 87.2 | 80 | 120 | 1.20 | 15 | |
| Dissolved Molybdenum | 0.201 | 0.00500 | 0.200 | 0.0160 | 92.8 | 80 | 120 | 1.60 | 15 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705169
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170522A

The QC data in batch 80504 applies to the following samples: 1705169-01A, 1705169-02A, 1705169-03A, 1705169-04A, 1705169-05A, 1705169-06A, 1705169-07A, 1705169-08A

Sample ID **MB-80504** Batch ID: **80504** TestNo: **SW6020A** Units: **mg/L**
 SampType: **MBLK** Run ID: **ICP-MS4_170522A** Analysis Date: **5/22/2017 12:42:00 PM** Prep Date: **5/18/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|-----------|-----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Beryllium | <0.000300 | 0.00100 | | | | | | | | |
| Boron | <0.0100 | 0.0300 | | | | | | | | |
| Sodium | <0.100 | 0.300 | | | | | | | | |

Sample ID **LCS-80504** Batch ID: **80504** TestNo: **SW6020A** Units: **mg/L**
 SampType: **LCS** Run ID: **ICP-MS4_170522A** Analysis Date: **5/22/2017 12:44:00 PM** Prep Date: **5/18/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|-----------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Beryllium | 0.194 | 0.00100 | 0.200 | 0 | 97.2 | 80 | 120 | | | |
| Boron | 0.198 | 0.0300 | 0.200 | 0 | 99.0 | 80 | 120 | | | |
| Sodium | 4.93 | 0.300 | 5.00 | 0 | 98.6 | 80 | 120 | | | |

Sample ID **LCSD-80504** Batch ID: **80504** TestNo: **SW6020A** Units: **mg/L**
 SampType: **LCSD** Run ID: **ICP-MS4_170522A** Analysis Date: **5/22/2017 12:46:00 PM** Prep Date: **5/18/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|-----------|--------|---------|-----------|---------|------|----------|-----------|-------|----------|------|
| Beryllium | 0.196 | 0.00100 | 0.200 | 0 | 98.1 | 80 | 120 | 0.884 | 15 | |
| Boron | 0.195 | 0.0300 | 0.200 | 0 | 97.3 | 80 | 120 | 1.69 | 15 | |
| Sodium | 4.93 | 0.300 | 5.00 | 0 | 98.7 | 80 | 120 | 0.055 | 15 | |

Sample ID **1705169-03A SD** Batch ID: **80504** TestNo: **SW6020A** Units: **mg/L**
 SampType: **SD** Run ID: **ICP-MS4_170522A** Analysis Date: **5/22/2017 12:52:00 PM** Prep Date: **5/18/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| Boron | 1.14 | 1.50 | 0 | 1.16 | | | | 1.92 | 10 | |
| Calcium | 80.6 | 15.0 | 0 | 81.2 | | | | 0.792 | 10 | |
| Sodium | 87.5 | 15.0 | 0 | 87.5 | | | | 0.054 | 10 | |

Sample ID **1705169-03A PDS** Batch ID: **80504** TestNo: **SW6020A** Units: **mg/L**
 SampType: **PDS** Run ID: **ICP-MS4_170522A** Analysis Date: **5/22/2017 1:13:00 PM** Prep Date: **5/18/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Boron | 3.15 | 0.300 | 2.00 | 1.16 | 99.6 | 80 | 120 | | | |
| Calcium | 130 | 3.00 | 50.0 | 81.2 | 97.0 | 80 | 120 | | | |
| Sodium | 137 | 3.00 | 50.0 | 87.5 | 100 | 80 | 120 | | | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705169
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170522A

| | | | | | | | | | | |
|-----------|----------------|-----------|-----------------|----------------|----------------------|------------|-----------|------|----------|------|
| Sample ID | 1705169-03A MS | Batch ID: | 80504 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | MS | Run ID: | ICP-MS4_170522A | Analysis Date: | 5/22/2017 1:14:00 PM | Prep Date: | 5/18/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 1.31 | 0.300 | 0.200 | 1.16 | 75.1 | 80 | 120 | | | S |
| Sodium | 89.9 | 3.00 | 5.00 | 87.5 | 49.3 | 80 | 120 | | | S |

| | | | | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|-------|----------|------|
| Sample ID | 1705169-03A MSD | Batch ID: | 80504 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | MSD | Run ID: | ICP-MS4_170522A | Analysis Date: | 5/22/2017 1:16:00 PM | Prep Date: | 5/18/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 1.36 | 0.300 | 0.200 | 1.16 | 99.5 | 80 | 120 | 3.65 | 15 | |
| Sodium | 90.3 | 3.00 | 5.00 | 87.5 | 57.0 | 80 | 120 | 0.426 | 15 | S |

| | | | | | | | | | | |
|-----------|----------------|-----------|-----------------|----------------|----------------------|------------|-----------|------|----------|------|
| Sample ID | 1705169-03A SD | Batch ID: | 80504 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | SD | Run ID: | ICP-MS4_170522A | Analysis Date: | 5/22/2017 2:09:00 PM | Prep Date: | 5/18/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Beryllium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |

| | | | | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|------|----------|------|
| Sample ID | 1705169-03A PDS | Batch ID: | 80504 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | PDS | Run ID: | ICP-MS4_170522A | Analysis Date: | 5/22/2017 2:19:00 PM | Prep Date: | 5/18/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Beryllium | 0.198 | 0.00100 | 0.200 | 0 | 98.9 | 80 | 120 | | | |

| | | | | | | | | | | |
|-----------|----------------|-----------|-----------------|----------------|----------------------|------------|-----------|------|----------|------|
| Sample ID | 1705169-03A MS | Batch ID: | 80504 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | MS | Run ID: | ICP-MS4_170522A | Analysis Date: | 5/22/2017 2:21:00 PM | Prep Date: | 5/18/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Beryllium | 0.189 | 0.00100 | 0.200 | 0 | 94.5 | 80 | 120 | | | |

| | | | | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|------|----------|------|
| Sample ID | 1705169-03A MSD | Batch ID: | 80504 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | MSD | Run ID: | ICP-MS4_170522A | Analysis Date: | 5/22/2017 2:23:00 PM | Prep Date: | 5/18/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Beryllium | 0.193 | 0.00100 | 0.200 | 0 | 96.4 | 80 | 120 | 2.04 | 15 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705169
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_170518A

The QC data in batch 80513 applies to the following samples: 1705169-01C, 1705169-02C, 1705169-03C, 1705169-04C, 1705169-05C, 1705169-06C, 1705169-07C, 1705169-08C

| Sample ID MB-80513 | Batch ID: 80513 | TestNo: M2320 B | Units: mg/L @ pH 4.24 | | | | | | | |
|---------------------------|---------------------------------|--|------------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: MBLK | Run ID: TITRATOR_170518A | Analysis Date: 5/18/2017 9:45:00 AM | Prep Date: 5/18/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|------------------------------------|-------|------|--|--|--|--|--|--|--|--|
| Alkalinity, Bicarbonate (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Total (As CaCO3) | <20.0 | 20.0 | | | | | | | | |

| Sample ID LCS-80513 | Batch ID: 80513 | TestNo: M2320 B | Units: mg/L @ pH 4.21 | | | | | | | |
|----------------------------|---------------------------------|--|------------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: LCS | Run ID: TITRATOR_170518A | Analysis Date: 5/18/2017 9:49:00 AM | Prep Date: 5/18/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|------------------------------|------|------|-------|---|-----|----|-----|--|--|--|
| Alkalinity, Total (As CaCO3) | 50.1 | 20.0 | 50.00 | 0 | 100 | 74 | 129 | | | |
|------------------------------|------|------|-------|---|-----|----|-----|--|--|--|

| Sample ID 1705147-01B-DUP | Batch ID: 80513 | TestNo: M2320 B | Units: mg/L @ pH 4.52 | | | | | | | |
|----------------------------------|---------------------------------|---|------------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: DUP | Run ID: TITRATOR_170518A | Analysis Date: 5/18/2017 11:10:00 AM | Prep Date: 5/18/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|------------------------------------|-------|------|---|-------|--|--|--|------|----|--|
| Alkalinity, Bicarbonate (As CaCO3) | 229 | 20.0 | 0 | 226.4 | | | | 1.27 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | 229 | 20.0 | 0 | 226.4 | | | | 1.27 | 20 | |

| Sample ID 1705169-03C-DUP | Batch ID: 80513 | TestNo: M2320 B | Units: mg/L @ pH 4.53 | | | | | | | |
|----------------------------------|---------------------------------|---|------------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: DUP | Run ID: TITRATOR_170518A | Analysis Date: 5/18/2017 12:54:00 PM | Prep Date: 5/18/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|------------------------------------|-------|------|---|-------|--|--|--|---|----|--|
| Alkalinity, Bicarbonate (As CaCO3) | 258 | 20.0 | 0 | 258.4 | | | | 0 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | 258 | 20.0 | 0 | 258.4 | | | | 0 | 20 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

2609 North River Road, Port Allen, Louisiana 70767
(800) 401-4277 -- FAX (225) 381-2996



ARS International, LLC

Laboratory Analysis Report

ARS1-17-01447

Prepared for:

B-Environmental

**Kevin Baros
1606 East Brazos Street
Suite D
Victoria, TX 77901**

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Project Manager Review

Management Review

Notes: ARS International, LLC assumes no liability for the use or the interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

Contact Person: Questions regarding this analytical report should be addressed to:

**Project Manager
ProjectManagers@amrad.com**

**Phone: 225.381.2991
Fax: 225.381.2996**



LELAP Cert# 01949



2609 North River Road, Port Allen, Louisiana 70767
 1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01447

Request or PO Number: N/A

Client Sample ID: S171361013 (BATCH 55339)

ARS Sample ID: ARS1-17-01447-001

Sample Collection Date: 05/15/17

Date Received: 05/23/17

Sample Matrix: Aqueous

Report Date: 06/16/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CDRL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.293 | 0.146 | 0.144 | 0.054 | NP | Q | pCi/L | ARS-010/EPA 903.0/904.0 | 06/14/17 7:44 | SCAUSEY | 104% |
| Ra-228 | 0.472 | 0.716 | 1.212 | 0.561 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/07/17 12:30 | SCAUSEY | 93% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-01447

Request or PO Number: N/A

Client Sample ID: S171361016 (BATCH 55339)

ARS Sample ID: ARS1-17-01447-002

Sample Collection Date: 05/15/17

Date Received: 05/23/17

Sample Matrix: Aqueous

Report Date: 06/16/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CDRL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.151 | 0.126 | 0.184 | 0.075 | NP | U,Q | pCi/L | ARS-010/EPA 903.0/904.0 | 06/14/17 7:44 | SCAUSEY | 97% |
| Ra-228 | 1.300 | 0.854 | 1.301 | 0.606 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/07/17 12:30 | SCAUSEY | 88% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-01447

Request or PO Number: N/A

Client Sample ID: S171361017 (BATCH 55339)

ARS Sample ID: ARS1-17-01447-003

Sample Collection Date: 05/15/17

Date Received: 05/23/17

Sample Matrix: Aqueous

Report Date: 06/16/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CDRL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.100 | 0.126 | 0.207 | 0.084 | NP | U,Q | pCi/L | ARS-010/EPA 903.0/904.0 | 06/14/17 7:44 | SCAUSEY | 106% |
| Ra-228 | 0.514 | 0.765 | 1.292 | 0.601 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/07/17 12:30 | SCAUSEY | 92% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-01447

Request or PO Number: N/A

Client Sample ID: S171361018 (BATCH 55339)

ARS Sample ID: ARS1-17-01447-004

Sample Collection Date: 05/15/17

Date Received: 05/23/17

Sample Matrix: Aqueous

Report Date: 06/16/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CDRL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.301 | 0.161 | 0.184 | 0.073 | NP | Q | pCi/L | ARS-010/EPA 903.0/904.0 | 06/14/17 7:44 | SCAUSEY | 99% |
| Ra-228 | 0.775 | 0.812 | 1.330 | 0.620 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/07/17 12:30 | SCAUSEY | 90% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-01447

Request or PO Number: N/A

Client Sample ID: S171361019 (BATCH 55339)

ARS Sample ID: ARS1-17-01447-005

Sample Collection Date: 05/15/17

Date Received: 05/23/17

Sample Matrix: Aqueous

Report Date: 06/16/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CDRL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.396 | 0.178 | 0.170 | 0.066 | NP | Q | pCi/L | ARS-010/EPA 903.0/904.0 | 06/14/17 7:44 | SCAUSEY | 105% |
| Ra-228 | 1.130 | 0.767 | 1.173 | 0.544 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/07/17 12:30 | SCAUSEY | 96% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-01445

Request or PO Number: N/A

Client Sample ID: S171361020 (BATCH 55339)

ARS Sample ID: ARS1-17-01445-001

Sample Collection Date: 05/15/17

Date Received: 05/23/17

Sample Matrix: Aqueous

Report Date: 06/19/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CDRL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.368 | 0.165 | 0.147 | 0.055 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 06/16/17 9:29 | SCAUSEY | 97% |
| Ra-228 | 0.633 | 0.697 | 1.145 | 0.531 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/09/17 12:32 | SCAUSEY | 91% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-01445

Request or PO Number: N/A

Client Sample ID: S171361021 (BATCH 55339)

ARS Sample ID: ARS1-17-01445-002

Sample Collection Date: 05/15/17

Date Received: 05/23/17

Sample Matrix: Aqueous

Report Date: 06/19/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CDRL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.120 | 0.116 | 0.177 | 0.072 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/16/17 9:29 | SCAUSEY | 107% |
| Ra-228 | -0.201 | 0.628 | 1.163 | 0.541 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/09/17 12:32 | SCAUSEY | 100% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-01445

Request or PO Number: N/A

Client Sample ID: S171361026 (BATCH 55339)

ARS Sample ID: ARS1-17-01445-003

Sample Collection Date: 05/15/17

Date Received: 05/23/17

Sample Matrix: Aqueous

Report Date: 06/19/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CDRL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.257 | 0.182 | 0.251 | 0.102 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 06/16/17 9:29 | SCAUSEY | 82% |
| Ra-228 | 0.899 | 0.880 | 1.430 | 0.665 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/09/17 12:32 | SCAUSEY | 77% |

Project Manager Review

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**INTERNATIONAL
QC Results Report**

2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

Sample Delivery Group: ARS1-17-01440;1447

Laboratory Control Sample Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | LCS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|----------------------|
| ARS1-B17-01065 | LCSD | RA-226 | 30.548 | 4.919 | 0.098 | 27.562 | N/A | pCi/L | ARS-010/EPA 903 | 6/14/17 9:43 | SC | 111 | 75%-125% |
| ARS1-B17-01065 | LCS | RA-228 | 34.618 | 5.816 | 1.169 | 39.784 | N/A | pCi/L | ARS-010/EPA 904 | 6/7/17 14:30 | SC | 87 | 75%-125% |

Blank Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|
| ARS1-B17-01065 | MBL | RA-226 | 0.194 | 0.095 | 0.096 | NA | | pCi/L | ARS-010/EPA 903 | 6/14/17 9:43 | SC |
| ARS1-B17-01065 | MBL | RA-228 | -0.002 | 0.394 | 0.709 | NA | U | pCi/L | ARS-010/EPA 904 | 6/7/17 14:30 | SC |

RER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | RER | RER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01065 | LCS | RA-226 | 30.548 | 4.919 | 36.562 | 5.864 | N/A | pCi/L | ARS-010/EPA 903 | 6/14/17 9:43 | SC | 0.56 | < 1 |
| ARS1-B17-01065 | LCSD | RA-228 | 34.618 | 5.816 | 26.300 | 4.492 | N/A | pCi/L | ARS-010/EPA 904 | 6/7/17 14:30 | SC | 0.81 | < 1 |

DER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | DER | DER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01065 | LCS | RA-226 | 30.548 | 4.919 | 36.562 | 5.864 | N/A | pCi/L | ARS-010/EPA 903 | 6/14/17 9:43 | SC | 0.79 | < 3 |
| ARS1-B17-01065 | LCSD | RA-228 | 34.618 | 5.816 | 26.300 | 4.492 | N/A | pCi/L | ARS-010/EPA 904 | 6/7/17 14:30 | SC | 1.13 | < 3 |

Matrix Spike

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | MS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|---------------------|
| ARS1-B17-01065 | MS | Ra-226 | 72.089 | 11.565 | 0.139 | 56.066 | N/A | pCi/L | ARS-010/EPA 903 | 6/14/17 9:43 | SC | 129 | 60%-140% |
| ARS1-B17-01065 | MS | Ra-228 | 40.905 | 6.890 | 1.560 | 52.566 | N/A | pCi/L | ARS-010/EPA 904 | 6/7/17 14:30 | SC | 78 | 60%-140% |
| ARS1-B17-01065 | MSD | Ra-226 | 59.961 | 9.641 | 0.154 | 55.743 | N/A | pCi/L | ARS-010/EPA 903 | 6/14/17 9:43 | SC | 108 | 60%-140% |
| ARS1-B17-01065 | MSD | Ra-228 | 39.907 | 6.747 | 1.590 | 52.514 | N/A | pCi/L | ARS-010/EPA 904 | 6/7/17 14:30 | SC | 76 | 60%-140% |

Project Manager Review

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NELAP Certificate # E87558



QC Results Report

2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

Sample Delivery Group: ARS1-17-01445

Laboratory Control Sample Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | LCS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|----------------------|
| ARS1-B17-01106 | LCS | RA-226 | 27.814 | 4.480 | 0.098 | 27.723 | N/A | pCi/L | ARS-010/EPA 903 | 6/16/17 11:29 | SC | 100 | 75%-125% |
| ARS1-B17-01106 | LCS | RA-228 | 32.901 | 5.513 | 1.063 | 39.784 | N/A | pCi/L | ARS-010/EPA 904 | 6/9/17 14:31 | SC | 83 | 75%-125% |

Blank Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|
| ARS1-B17-01106 | MBL | RA-226 | 0.082 | 0.065 | 0.089 | NA | U | pCi/L | ARS-010/EPA 903 | 6/16/17 11:29 | SC |
| ARS1-B17-01106 | MBL | RA-228 | -0.087 | 0.371 | 0.681 | NA | U | pCi/L | ARS-010/EPA 904 | 6/9/17 14:31 | SC |

RER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | RER | RER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01106 | LCSD | RA-226 | 27.814 | 4.480 | 35.081 | 5.636 | N/A | pCi/L | ARS-010/EPA 903 | 6/16/17 11:29 | SC | 0.72 | < 1 |
| ARS1-B17-01106 | LCSD | RA-228 | 32.901 | 5.513 | 34.717 | 5.792 | N/A | pCi/L | ARS-010/EPA 904 | 6/9/17 14:31 | SC | 0.16 | < 1 |

DER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | DER | DER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01106 | LCSD | RA-226 | 27.814 | 4.480 | 35.081 | 5.636 | N/A | pCi/L | ARS-010/EPA 903 | 6/16/17 11:29 | SC | 1.01 | < 3 |
| ARS1-B17-01106 | LCSD | RA-228 | 32.901 | 5.513 | 34.717 | 5.792 | N/A | pCi/L | ARS-010/EPA 904 | 6/9/17 14:31 | SC | 0.23 | < 3 |

Project Manager Review

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NELAP Certificate # E87558



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Notes (Case Narrative):

Comments:

- 1.0) All MDA/MDC values are calculated on a sample specific basis.
- 2.0) Soil and Sludge analysis are reported on a wet basis or an as received basis unless otherwise indicated.
- 3.0) Data in this report are within the limits of uncertainty specified in the reference method unless otherwise specified.
- 4.0) Modified analysis procedures are procedures that are modified to meet the certain specifications. An example may be the use of a water method to analyze a solid matrix due to the lack of an officially recognized procedure for the analysis of the solid matrix. Modified analyses are indicated by the subsequent addition of "m" to the procedure number (i.e. 900.0M).
- 5.0) Total activity is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring radioactive decay chains and other prominent radioactive nuclides. Total activity may be lower than the actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not representative of nuclides that emit solely alpha or beta particles.
- 6.0) Ra-228 is determined via secular equilibrium with its daughter, Actinium 228 (Gamma Spectroscopy only).
- 7.0) U-238 is determined via secular equilibrium with its daughter, Thorium 234 (Gamma Spectroscopy only).
- 8.0) All gamma spectroscopy was performed utilizing high purity germanium detectors (HPGe).
- 9.0) ARS makes every attempt to match sample density to calibrated density; however, in some cases, it is not practical or possible to do so and data results may be affected (Gamma Spectroscopy only).
- 10.0) Gamma spectroscopy results are calculated values based on the ORTEC® GammaVision ENV32 Analysis Engine.
- 11.0) ACLASS DOD and ISO 17025 certification applies only to the following analytes and methods: Gross Alpha and Gross Beta (EPA 900, SM7110B&C, SW846 9310); Radium 226 (EPA 903, EPA 903.1, SM 7500 Ra-B, SW846 9315); Radium 228 (EPA 904, SM 7500 Ra-B SW846 9320); Iodine-131(EPA 901.1); Uranium by ICPMS (EPA 200.8); Strontium 89/90 (EPA 905, Eichrom SRW01, HASL 300 Sr-03-RC); Tritium (EPA 906, EPA 906M); Gamma Emitters (EPA 901.1, SM7120B, HASL 300 Ga-01-R); Americium-241, Curium 242/244, Plutonium 239/240 and 241, Thorium 228/230/232, Uranium 234/233 and 238 (Eichrom ACW03 VBS); Lead 210 (HASL 300 Pb-01-RC, Eichrom OTW01); Polonium 210 (HASL 300 Po-01-RC, HASL 300 Po-02-RC); Technetium-99 (Eichrom TCW02, Eichrom TCS01M).

Method References:

- 1.0) EPA 600/4-80-032; Prescribed Procedures for the Measurements of Radioactivity in Drinking Water, August 1980.
- 2.0) Standard Methods for the Examination of Water and Wastewater (On-Line Edition)
- 3.0) EPA SW-846; Test Methods for Evaluating Solid Waste, (On-Line edition)
- 4.0) EPA 600/4/79-020; Methods for Chemical Analysis of Water and Waste, March 1983.
- 5.0) HASL 300; The Procedures Manual of the Environmental Measurements Laboratory, Volume I, 28th Edition February, 1997.

Definitions:

| | |
|----------|---|
| CRDL | Contract Required Detection Limit |
| CSU | Combined Standard Uncertainty |
| DLC | Decision Level Concentration (ANSI N42.23) or critical level |
| DO | Duplicate Original |
| DUP | Method Duplicate |
| LCS/LCSD | Laboratory Control Sample/Laboratory Control Sample Duplicate |
| MDA | Minimum Detectable Activity |
| MDC | (Minimum Detectable Concentration) minimum concentration of the analyte that ARS can detect utilizing the specific analysis |
| MBL | Method Blank |
| MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| N/A | Not Applicable |
| NP | Not Provided |
| NR | Not Referenced |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |

Data Qualifiers:

| | |
|----|--|
| B | The analyte is found in both the associated method blank and the sample. This flag indicates probable blank contamination. |
| D | Sample analysis accomplished through dilution. |
| J | The reported result is an estimated value above the limit of detection but outside of quantitation range (e.g., matrix interference was observed). |
| Q | One or more quality control criteria failed (e.g., LCS recovery, surrogate spike recovery, or CCV recovery). |
| U | Activity is below the MDC, MDA, MDL, or LOD |
| N | The analyte is a tentatively identified compound using mass spectrometry or any non-customer requested compounds that are tentatively identified. |
| * | LCS/LCSD or MS/MSD fails RPD criteria. |
| S | Spike |
| SC | Subcontracted out to another qualified laboratory |
| H | Holding time exceeded |

ARS-059-010
Revision: 9.1
Revision Date: 03-14-2017

LELAP Cert# 01949

NELAP Cert# E87558



2609 North River Road • Port Allen, Louisiana 70767

1 (800) 401-4277 • Fax (225) 381-2096

Notes (Case Narrative):

Comments:

- 1.0) All MDA/MDC values are calculated on a sample specific basis.
- 2.0) Soil and Sludge analysis are reported on a wet basis or an as received basis unless otherwise indicated.
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- 10.0) Gamma spectroscopy results are calculated values based on the ORTEC® GammaVision ENV32 Analysis Engine.
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Method References:

- 1.0) EPA 600/4-80-032; Prescribed Procedures for the Measurements of Radioactivity in Drinking Water, August 1980.
- 2.0) Standard Methods for the Examination of Water and Wastewater (On-Line Edition)
- 3.0) EPA SW-846; Test Methods for Evaluating Solid Waste, (On-Line edition)
- 4.0) EPA 600/4/79-020; Methods for Chemical Analysis of Water and Waste, March 1983.
- 5.0) HASL 300; The Procedures Manual of the Environmental Measurements Laboratory, Volume I, 28th Edition February, 1997.

Definitions:

| | |
|----------|---|
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| CSU | Combined Standard Uncertainty |
| DLC | Decision Level Concentration (ANSI N42.23) or critical level |
| DO | Duplicate Original |
| DUP | Method Duplicate |
| LCS/LCSD | Laboratory Control Sample/Laboratory Control Sample Duplicate |
| MDA | Minimum Detectable Activity |
| MDC | (Minimum Detectable Concentration) minimum concentration of the analyte that ARS can detect utilizing the specific analysis |
| MBL | Method Blank |
| MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| N/A | Not Applicable |
| NP | Not Provided |
| NR | Not Referenced |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |

Data Qualifiers:

| | |
|----|--|
| B | The analyte is found in both the associated method blank and the sample. This flag indicates probable blank contamination. |
| D | Sample analysis accomplished through dilution. |
| J | The reported result is an estimated value above the limit of detection but outside of quantitation range (e.g., matrix interference was observed). |
| Q | One or more quality control criteria failed (e.g., LCS recovery, surrogate spike recovery, or CCV recovery). |
| U | Activity is below the MDC, MDA, MDL, or LOD |
| N | The analyte is a tentatively identified compound using mass spectrometry or any non-customer requested compounds that are tentatively identified. |
| * | LCS/LCSD or MS/MSD fails RPD criteria. |
| S | Spike |
| SC | Subcontracted out to another qualified laboratory |
| H | Holding time exceeded |

LELAP Cert# 01949

NELAP Cert# E87558

ARS-059-010
Revision: 9.1
Revision Date: 03-14-2017



Environmental

Chain of Custody Record

Batch # 55339

TEMP UN-C: 5.1

Page 1 of 2

Customer / Report Information
 Name: Coletto Creek Poudre
 Attention: Rick Coleman
 Address: [Redacted]
 Billing Information: [X] Check box if Billing is the same as Report Information
 Address: [Redacted]
 Attention: CCR Sampling
 Project: CCR Sampling
 Comments: [Redacted]
 PO#: [Redacted]

Batch # 55339
TEMP UN-C: 5.1
Page 1 of 2

Phone: 361-788-5145
FAX: [Redacted]
EMAIL: Richard.Coleman@clmenv.com
 Requested Analysis: [Redacted]
 Completed By: [Redacted]

| Client / Field Sample ID | Collected | | Matrix | Container TYPE | NUMBER | SIZE | Preservative | Custody Seals Present |
|--------------------------|-----------|------|--------|----------------|------------------|--|---|-----------------------|
| | Date | Time | | | | | | |
| BSV-15 | 5-15-17 | 557 | G W | P 6 | 11 500 850 | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | Metals* Cl, F*, SO4 PH TDS Pb 206 + Ra 226 AIK: Tot, Carb Bi Carb Diss Li+Mo | S171361013 |
| mw-4 | | 908 | | | | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | | S171361016 |
| mw-8 | | 1058 | | | | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | | S171361017 |
| Dup | | | | | | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | | S171361018 |
| ms-mw8 | | 1058 | | | | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | | S171361019 |
| msD-mw8 | | 1058 | | | | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | | S171361019 |
| BSV-19 | | 1398 | | | | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | | S171361019 |

1606 E Brazos Suite D, Victoria, Texas 77901 Ph. (361) 572-8224 Fax (361) 572-4115 Toll Free 1-800-460-8223 Form #1000-0-2 REV 1.2 Email: kbenviro@suddenlinkmail.com www.benvironmental.net

Fluoride: 0.25 mg/L; Metals: B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, Mg, K, Na, + Hg



Chain of Custody Record

Batch # 553339

TEMP UN-C: 5.1
Page 2 of 2

Customer / Report Information
 Name: COPPO CREEK POWER
 Attention: RICK COLEMAN
 Address: _____
 PO#: _____

Billing Information
 Address: _____
 Attention: _____
 Project: COP SAMPLING
 Comments: _____

Check box if Billing is the same as Report Information **TEMP ID # 3**
 Phone: 361-788-5145 FAX: _____
 EMAIL: Rick.Coleman@powergen.com
 Requested Analysis: _____
 Completed By/Laboratory: _____

| Client / Field Sample ID | Collected | | Matrix | Container | TYPE | NUMBER | SIZE | Preservative | Custody Seals Present |
|--------------------------|-----------|------|--------|-----------|------|--------|------|---|--|
| | Date | Time | | | | | | | |
| BV-10 | 5-15-17 | 1412 | G W | P 6 | 500 | 250 | | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | Yes <input type="checkbox"/> No <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> LAB Sample Number |
| BV-1 | 5-15-17 | 1448 | | | | | | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | Yes <input type="checkbox"/> No <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> LAB Sample Number |
| B1 mark | 5-15-17 | 1455 | | | | | | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | Yes <input type="checkbox"/> No <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> LAB Sample Number |

Required Turnaround: Routine (6-10 Business Days) Expedite / Rush: 1 Business Day 2 Business Days 3 Business Days 5 Business Days Other

Surcharge will apply to RUSH TAT Authorized By: _____

Container Type: P=Plastic, G=Glass, V=VOA, O=Other Carrier ID: _____

| | | | | | |
|------------------------|----------------------|-------------------|--------------------|----------------------|-------------------|
| Relinquished By: _____ | Date: <u>5-15-17</u> | Time: <u>1617</u> | Received By: _____ | Date: <u>5/15/17</u> | Time: <u>1615</u> |
| Relinquished By: _____ | Date: _____ | Time: _____ | Received By: _____ | Date: _____ | Time: _____ |
| Relinquished By: _____ | Date: _____ | Time: _____ | Received By: _____ | Date: _____ | Time: _____ |

1606 E Brazos Suite D, Victoria, Texas 77901 Ph. (361) 572-8224 Fax (361) 572-4115 Toll Free 1-800-460-8223 Form #1000-0-2 REV 1.2 Email: kbenviro@suddenlinkmail.com www.benviro.com

FTW made: 0.25 mg/L; METALS: Ba, Ca, Sr, As, Bi, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, Mg, K, Ni, & Hg

BatchNo: 55420

SAMPLE REPORT



T104704328-17-14

Business

Coletto Creek Power - R Coleman
PO Box 8
Fannin TX 77960
Att: Rick Coleman



Laboratory

B Environmental, LLC.
1606 E Brazos, Suite D
Victoria TX 77901
ph. 361-572-8224

Reference Information

Project: CCR Sampling
Printed: Friday, June 23, 2017

Re: Coletto Creek Power - R Coleman

Dear: Rick Coleman

Attached are the results for sample(s) received on 5/16/2017

The analytical results relate only to the samples tested.
All supporting quality data meets the requirements of NELAC unless noted in the case narrative section of the report.

This report contains 40 pages (including the cover page)

If you have any questions concerning this report, please do not hesitate to call (361) 572-8224 or Fax us at (361) 572-4115

Respectfully Submitted,

Kevin Baros
Laboratory Director



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B Environmental, LLC.
1606 E Brazos, Suite D

BatchNo: 55420

Victoria TX 77901

Batch No: 55420

Sample Receipt Checklist

Date Received: 5/16/2017

Project: CCR Sampling Received By: Vahrenkamp

Login completed by: Vahrenkamp 5/16/2017
Signature LoginDate:

Carrier Name Walk In

- Shipping container/cooler in good condition? YES NO Not Present
- Custody seals intact on shipping container/cooler? YES NO Not Present
- Custody seals intact on sample bottles? YES NO Not Present
- Chain of Custody present? YES NO
- Chain of Custody signed when relinquished and received? YES NO
- Chain of Custody agrees with sample labels? YES NO
- Samples in proper container/bottles? YES NO
- Sample containers intact? YES NO
- Sufficient sample volume for indicated tests? YES NO
- All samples received within holding times? YES NO
- Container/Temp Blank - temperature in compliance? YES NO >0 <6 °C On Ice
- Water - VOA vials have zero headspace? Bubble < 6mm? YES NO No VOA Vials submitted
- Water - pH acceptable upon receipt? YES NO Not Applicable

*TEMP 5.3/5.1 pH Adjusted? No Checked By L. Vahrenkamp

Any No and/or N/A (not applicable) response must be detailed in the comments section below.

Client contacted Person Contacted
Contacted by: Date Contacted:

Regarding

Comments
Therm #3. HNO3 Lot # 2-42-12. pH Paper Lot # 2-25-6.

Corrective Action



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B Environmental, LLC.

BatchNo:

55420

1606 E Brazos, Suite D

Victoria TX 77901

Sample Report Information



| | | | | | |
|-------------------|-------------------|-------------------|-------------|-----------------|---------------|
| Sample ID: | S171361650 | Client ID: | MW-7 | Sampler: | Client |
|-------------------|-------------------|-------------------|-------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman

Batch No: 55420

Study: Water

Sampled: 5/16/2017

11:17 AM

Project: CCR Sampling

Location: MW #7

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 91 | mg/L | EPA 300 | K Baros | 5/18/2017 4:41 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 252 | mg/L | SM 2320 B | | 5/24/2017 11:46 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 5/24/2017 11:46 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 252 | mg/L | SM 2320 B | | 5/24/2017 11:46 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.59 | mg/L | EPA 300 | K Baros | 5/18/2017 4:41 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.1 | SU | SM 4500-H+B | C Watts | 5/16/2017 17:20 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 562 | mg/L | SM2540C | C Watts | 5/22/2017 17:00 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 5/22/2017 15:42 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 74 | mg/L | EPA 300 | K Baros | 5/18/2017 4:41 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 6/9/2017 6:26 | | | | | <input checked="" type="checkbox"/> | ARS International |



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Victoria TX 77901

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BatchNo: 55420

Victoria TX 77901

Sample Report Information



| | | |
|------------------------------|------------------------|------------------------|
| Sample ID: S17136165A | Client ID: MW-6 | Sampler: Client |
|------------------------------|------------------------|------------------------|

Client: Coletto Creek Power - R Coleman
Study: Water
Project: CCR Sampling
Location: MW #6
Notes:

Batch No: 55420
Sampled: 5/16/2017 10:30 AM
Type: Grab
Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 70 | mg/L | EPA 300 | K Baros | 5/18/2017 4:41 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 173 | mg/L | SM 2320 B | | 5/24/2017 11:52 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 5/24/2017 11:52 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 173 | mg/L | SM 2320 B | | 5/24/2017 11:52 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.36 | mg/L | EPA 300 | K Baros | 5/18/2017 4:41 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.18 | SU | SM 4500-H+B | C Watts | 5/16/2017 17:20 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 506 | mg/L | SM2540C | C Watts | 5/22/2017 17:00 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 5/22/2017 15:44 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 107 | mg/L | EPA 300 | K Baros | 5/18/2017 4:41 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 6/9/2017 6:26 | | | | | <input checked="" type="checkbox"/> | ARS International |



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BatchNo: 55420

Victoria TX 77901

Sample Report Information



| | | | |
|------------------------------|------------------------|-----------------|---------------|
| Sample ID: S17136165B | Client ID: BV-5 | Sampler: | Client |
|------------------------------|------------------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman
Study: Water

Batch No: 55420
Sampled: 5/16/2017 9:05 AM

Project: CCR Sampling

Location: BV-5

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 107 | mg/L | EPA 300 | K Baros | 5/18/2017 4:41 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 351 | mg/L | SM 2320 B | | 5/24/2017 12:05 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 5/24/2017 12:05 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 351 | mg/L | SM 2320 B | | 5/24/2017 12:05 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.55 | mg/L | EPA 300 | K Baros | 5/18/2017 4:41 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.03 | SU | SM 4500-H+B | C Watts | 5/16/2017 17:20 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 832 | mg/L | SM2540C | C Watts | 5/22/2017 17:00 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 5/22/2017 15:46 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 145 | mg/L | EPA 300 | K Baros | 5/18/2017 4:41 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 6/9/2017 6:26 | | | | | <input checked="" type="checkbox"/> | ARS International |



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 1606 E Brazos, Suite D
 Victoria TX 77901

BatchNo: 55420

Sample Report Information



| | | | | | |
|-------------------|-------------------|-------------------|--------------|-----------------|---------------|
| Sample ID: | S17136165C | Client ID: | MW-11 | Sampler: | Client |
|-------------------|-------------------|-------------------|--------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman
Study: Water
Project: CCR Sampling
Location: MW #11
Notes:

Batch No: 55420
Sampled: 5/16/2017 1:10 PM
Type: Grab
Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 52 | mg/L | EPA 300 | K Baros | 5/18/2017 4:41 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 148 | mg/L | SM 2320 B | | 5/24/2017 12:11 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 5/24/2017 12:11 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 148 | mg/L | SM 2320 B | | 5/24/2017 12:11 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.85 | mg/L | EPA 300 | K Baros | 5/18/2017 4:41 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.49 | SU | SM 4500-H+B | C Watts | 5/16/2017 17:20 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 362 | mg/L | SM2540C | C Watts | 5/23/2017 16:00 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 5/22/2017 15:48 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 58 | mg/L | EPA 300 | K Baros | 5/18/2017 4:41 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 6/9/2017 6:26 | | | | | | <input checked="" type="checkbox"/> ARS International |



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1606 E Brazos, Suite D

BatchNo: 55420

Victoria TX 77901

Sample Report Information



| | | | | | |
|-------------------|-------------------|-------------------|-------------|-----------------|---------------|
| Sample ID: | S17136165D | Client ID: | PS-3 | Sampler: | Client |
|-------------------|-------------------|-------------------|-------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman
Study: Water

Batch No: 55420
Sampled: 5/16/2017 1:44 PM

Project: CCR Sampling

Location: PS-3

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| Chloride, IC | 45 | mg/L | EPA 300 | K Baros | 5/18/2017 4:41 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 158 | mg/L | SM 2320 B | | 5/24/2017 12:17 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 5/24/2017 12:17 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 158 | mg/L | SM 2320 B | | 5/24/2017 12:17 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.95 | mg/L | EPA 300 | K Baros | 5/18/2017 4:41 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.47 | SU | SM 4500-H+B | C Watts | 5/16/2017 17:20 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 330 | mg/L | SM2540C | C Watts | 5/23/2017 16:00 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 5/22/2017 15:50 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 33 | mg/L | EPA 300 | K Baros | 5/18/2017 4:41 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 6/9/2017 6:26 | | | | | | <input checked="" type="checkbox"/> ARS International |



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Sample Report Information



| | | | | | |
|-------------------|-------------------|-------------------|-------------|-----------------|---------------|
| Sample ID: | S17136165E | Client ID: | MW-5 | Sampler: | Client |
|-------------------|-------------------|-------------------|-------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman
 Study: Water
 Project: CCR Sampling
 Location: MW #5
 Notes:

Batch No: 55420
 Sampled: 5/16/2017 2:15 PM
 Type: Grab
 Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 139 | mg/L | EPA 300 | K Baros | 5/18/2017 4:41 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 288 | mg/L | SM 2320 B | | 5/24/2017 12:28 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 5/24/2017 12:28 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 288 | mg/L | SM 2320 B | | 5/24/2017 12:28 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.5 | mg/L | EPA 300 | K Baros | 5/18/2017 4:41 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7 | SU | SM 4500-H+B | C Watts | 5/16/2017 17:20 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 848 | mg/L | SM2540C | C Watts | 5/23/2017 16:00 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 5/22/2017 15:52 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 183 | mg/L | EPA 300 | K Baros | 5/18/2017 4:41 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 6/9/2017 6:28 | | | | | <input checked="" type="checkbox"/> | ARS International |



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Sample Report Information



| | | |
|------------------------------|-----------------------|------------------------|
| Sample ID: S17136165F | Client ID: Dup | Sampler: Client |
|------------------------------|-----------------------|------------------------|

Client: Coletto Creek Power - R Coleman
Study: Water
Project: CCR Sampling
Location: Dup
Notes:

Batch No: 55420
Sampled: 5/16/2017 12:00 AM
Type: Grab
Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 70 | mg/L | EPA 300 | K Baros | 5/18/2017 4:41 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 170 | mg/L | SM 2320 B | | 5/24/2017 12:34 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 5/24/2017 12:34 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 170 | mg/L | SM 2320 B | | 5/24/2017 12:34 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.36 | mg/L | EPA 300 | K Baros | 5/18/2017 4:41 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.31 | SU | SM 4500-H+B | C Watts | 5/16/2017 17:20 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 492 | mg/L | SM2540C | C Watts | 5/23/2017 16:00 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 5/22/2017 15:54 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 108 | mg/L | EPA 300 | K Baros | 5/18/2017 4:41 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 6/9/2017 6:26 | | | | | <input checked="" type="checkbox"/> | ARS International |



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QA Summary Report

| Parameter | ID | Result | Ref Value | Amt Added | LOQ | Qualifier | Control | Flag | Comments |
|------------------------------------|------------|-----------|-----------|-----------|------|-----------|---------|----------|-------------------------------|
| Method Blank | | | | | | | | | |
| - Chloride, IC | Q171461202 | <1mg/L | 0 | | | 1 | 1 | | Blank Acceptable. |
| 5/17/2017 13:27 | | | | | | | | | |
| Fluoride, IC | Q171461202 | <0.25mg/L | 0 | | 0.25 | | 0.25 | | Blank Acceptable. |
| 5/17/2017 13:27 | | | | | | | | | |
| Solids, Total Dissolved | Q171511037 | <25mg/L | 0 | | 10 | | 25 | | Blank Acceptable. |
| 5/23/2017 16:00 | | | | | | | | | |
| Solids, Total Dissolved | Q171431400 | <25mg/L | 0 | | 10 | | 25 | | Blank Acceptable. |
| 5/22/2017 17:00 | | | | | | | | | |
| Sulfate, IC | Q171461202 | <1mg/L | 0 | | | 1 | 1 | | Blank Acceptable. |
| 5/17/2017 13:27 | | | | | | | | | |
| Duplicate | | | | | | | | | |
| pH (Standard Units) | Q171381151 | 7.11SU | 7.1 | | | 2 | 0.1% | 20 | Duplicate RPD Acceptable. |
| 5/16/2017 17:20 | | | | | | | | | |
| Solids, Total Dissolved | Q171431403 | 4520mg/L | 4550 | | | 10 | 0.7% | 20 | Duplicate RPD Acceptable. |
| 5/22/2017 17:00 | | | | | | | | | |
| Solids, Total Dissolved | Q171511039 | 464mg/L | 464 | | | 10 | 0.0% | 20 | Duplicate RPD Acceptable. |
| 5/23/2017 16:00 | | | | | | | | | |
| Laboratory Control Standard | | | | | | | | | |
| - Chloride, IC | Q171461203 | 25.4mg/L | 25 | | | 1 | 101.6% | 80 - 120 | Standard Recovery Acceptable. |
| 5/17/2017 14:05 | | | | | | | 1.6% | 20 | Standard RPD Acceptable. |
| Fluoride, IC | Q171461203 | 2.07mg/L | 2 | | 0.25 | | 103.5% | 80 - 120 | Standard Recovery Acceptable. |
| 5/17/2017 14:05 | | | | | | | 3.4% | 20 | Standard RPD Acceptable. |
| pH (Standard Units) | Q171381150 | 7.02SU | 7 | | | 2 | 100.3% | 80 - 120 | Standard Recovery Acceptable. |
| 5/16/2017 17:20 | | | | | | | 0.3% | 20 | Standard RPD Acceptable. |
| Sulfate, IC | Q171461203 | 25.8mg/L | 25 | | | 1 | 103.2% | 80 - 120 | Standard Recovery Acceptable. |
| 5/17/2017 14:05 | | | | | | | 3.1% | 20 | Standard RPD Acceptable. |
| Matrix Spike | | | | | | | | | |
| - Chloride, IC | Q17146120A | 93.8mg/L | 93 | 25 | | 1 | 103.2% | 80 - 120 | Spike Recovery Acceptable. |
| 5/17/2017 22:58 | | | | | | | 0.9% | 20 | Spike RPD Acceptable. |
| - Chloride, IC | Q171461204 | 85.3mg/L | 82.1 | 25 | | 1 | 112.8% | 80 - 120 | Spike Recovery Acceptable. |
| 5/18/2017 12:57 | | | | | | | 3.8% | 20 | Spike RPD Acceptable. |
| Fluoride, IC | Q17146120A | 2.28mg/L | 2.39 | 2 | 0.25 | | 94.5% | 80 - 120 | Spike Recovery Acceptable. |
| 5/17/2017 22:58 | | | | | | | 4.7% | 20 | Spike RPD Acceptable. |
| Fluoride, IC | Q171461204 | 2.95mg/L | 3.12 | 2 | 0.25 | | 91.5% | 80 - 120 | Spike Recovery Acceptable. |
| 5/18/2017 12:57 | | | | | | | 5.6% | 20 | Spike RPD Acceptable. |
| Sulfate, IC | Q171461204 | 77mg/L | 83 | 25 | | 1 | 76.0% | 70 - 130 | Spike Recovery Acceptable. |
| 5/18/2017 12:57 | | | | | | | 7.5% | 20 | Spike RPD Acceptable. |
| Sulfate, IC | Q17146120A | 96.1mg/L | 96 | 25 | | 1 | 100.4% | 70 - 130 | Spike Recovery Acceptable. |
| 5/17/2017 22:58 | | | | | | | 0.1% | 20 | Spike RPD Acceptable. |



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| Parameter | ID | Result | Ref Value | Amt Added | LOQ | Qualifier | Control | Flag | Comments |
|-------------------------|------------|----------|-----------|-----------|------|-----------|----------|------|----------------------------|
| Matrix Spike Dup | | | | | | | | | |
| - Chloride, IC | Q17146120B | 93.8mg/L | 93 | 25 | 1 | 103.2% | 80 - 120 | | Spike Recovery Acceptable. |
| 5/17/2017 23:36 | | | | | | 0.9% | 20 | | Spike RPD Acceptable. |
| - Chloride, IC | Q17146120C | 85mg/L | 82.1 | 25 | 1 | 111.6% | 80 - 120 | | Spike Recovery Acceptable. |
| 5/18/2017 13:35 | | | | | | 3.5% | 20 | | Spike RPD Acceptable. |
| Fluoride, IC | Q17146120B | 2.28mg/L | 2.39 | 2 | 0.25 | 94.5% | 80 - 120 | | Spike Recovery Acceptable. |
| 5/17/2017 23:36 | | | | | | 4.7% | 20 | | Spike RPD Acceptable. |
| Fluoride, IC | Q17146120C | 2.93mg/L | 3.12 | 2 | 0.25 | 90.5% | 80 - 120 | | Spike Recovery Acceptable. |
| 5/18/2017 13:35 | | | | | | 6.3% | 20 | | Spike RPD Acceptable. |
| Sulfate, IC | Q17146120B | 96.2mg/L | 96 | 25 | 1 | 100.8% | 70 - 130 | | Spike Recovery Acceptable. |
| 5/17/2017 23:36 | | | | | | 0.2% | 20 | | Spike RPD Acceptable. |
| Sulfate, IC | Q17146120C | 77mg/L | 83 | 25 | 1 | 76.0% | 70 - 130 | | Spike Recovery Acceptable. |
| 5/18/2017 13:35 | | | | | | 7.5% | 20 | | Spike RPD Acceptable. |

Flag and Qualifier Legend

- Negative - Result Detected
 - Caution - Problem Detected
 - Warning - Null Value
 - MS, MSD, RPD- Failure may occur due to matrix interference, data released per QA plan
- MDL = Method Detection Limit* *DF = Dilution Factor*
LOQ = Limit of Quantitation *j = Analyte detected between MDL and LOQ*
S = surrogate standard out of limit *H = sample out of hold time*

Friday, June 23, 2017

B Environmental - LDMS QA Report Summary

Note:

THANK YOU!



B Environmental, LLC.

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DHL Analytical, Inc.

Date: 24-May-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Lab Order: 1705214

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition and Standard Methods.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives except where noted in the following. For Total Metals Analysis, the recoveries of three analytes for the Matrix Spike and Matrix Spike Duplicate (1705217-03 MS/MSD) were outside of the method control limits. These are flagged accordingly in the QC Summary Report. These analytes were within method control limits in the associated LCS. No further corrective action was taken.

For Total Metals Analysis, the recovery of Antimony for the Post Digestion Spike (1705217-03 PDS) was below the method control limits. This is flagged accordingly in the QC Summary Report. This analyte was within method control limits in the associated Serial Dilution. No further corrective action was taken.

For Total/Dissolved Metals Analysis, the results of dissolved Lithium/Molybdenum for five samples were slightly higher than the results of total Lithium/Molybdenum. The results were within acceptable analytical variation limits. No further corrective action was taken.

DHL Analytical, Inc.

Date: 24-May-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR (55420)
Lab Order: 1705214

Client Sample ID: MW-7
Lab ID: 1705214-01
Alternate ID: S171361650
Collection Date: 05/16/17 11:17 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 0.00958 | 0.00500 | 0.0100 | J | mg/L | 1 | 05/23/17 12:43 PM |
| Dissolved Molybdenum | 0.00970 | 0.00200 | 0.00500 | | mg/L | 1 | 05/23/17 12:43 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 05/22/17 03:42 PM |
| Arsenic | 0.00994 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 03:42 PM |
| Barium | 0.0876 | 0.00300 | 0.0100 | | mg/L | 1 | 05/22/17 03:42 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/22/17 03:42 PM |
| Boron | 0.867 | 0.100 | 0.300 | | mg/L | 10 | 05/23/17 11:24 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/22/17 03:42 PM |
| Calcium | 66.1 | 1.00 | 3.00 | | mg/L | 10 | 05/23/17 11:24 AM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 03:42 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 05/22/17 03:42 PM |
| Lead | 0.000425 | 0.000300 | 0.00100 | J | mg/L | 1 | 05/22/17 03:42 PM |
| Lithium | 0.00995 | 0.00500 | 0.0100 | J | mg/L | 1 | 05/22/17 03:42 PM |
| Magnesium | 9.68 | 0.100 | 0.300 | | mg/L | 1 | 05/22/17 03:42 PM |
| Molybdenum | 0.00980 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 03:42 PM |
| Potassium | 1.28 | 0.100 | 0.300 | | mg/L | 1 | 05/22/17 03:42 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 03:42 PM |
| Sodium | 109 | 1.00 | 3.00 | | mg/L | 10 | 05/23/17 11:24 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 05/22/17 03:42 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: RO | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 05/22/17 01:50 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 252 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/24/17 11:46 AM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/24/17 11:46 AM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/24/17 11:46 AM |
| Alkalinity, Total (As CaCO3) | 252 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/24/17 11:46 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 24-May-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR (55420)
Lab Order: 1705214

Client Sample ID: MW-6
Lab ID: 1705214-02
Alternate ID: S17136165A
Collection Date: 05/16/17 10:30 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|------|----------------|----|---------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | | | | Analyst: SP |
| Dissolved Lithium | 0.00874 | 0.00500 | 0.0100 | J | mg/L | 1 | 05/23/17 12:45 PM |
| Dissolved Molybdenum | 0.0143 | 0.00200 | 0.00500 | | mg/L | 1 | 05/23/17 12:45 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | | | | Analyst: SP |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 05/22/17 03:44 PM |
| Arsenic | 0.00803 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 03:44 PM |
| Barium | 0.0784 | 0.00300 | 0.0100 | | mg/L | 1 | 05/22/17 03:44 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/22/17 03:44 PM |
| Boron | 1.84 | 0.100 | 0.300 | | mg/L | 10 | 05/23/17 11:26 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/22/17 03:44 PM |
| Calcium | 76.3 | 1.00 | 3.00 | | mg/L | 10 | 05/23/17 11:26 AM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 03:44 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 05/22/17 03:44 PM |
| Lead | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/22/17 03:44 PM |
| Lithium | 0.00880 | 0.00500 | 0.0100 | J | mg/L | 1 | 05/22/17 03:44 PM |
| Magnesium | 8.65 | 0.100 | 0.300 | | mg/L | 1 | 05/22/17 03:44 PM |
| Molybdenum | 0.0131 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 03:44 PM |
| Potassium | 0.868 | 0.100 | 0.300 | | mg/L | 1 | 05/22/17 03:44 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 03:44 PM |
| Sodium | 72.2 | 1.00 | 3.00 | | mg/L | 10 | 05/23/17 11:26 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 05/22/17 03:44 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | | | Analyst: RO |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 05/22/17 01:53 PM |
| ALKALINITY | | M2320 B | | | | | Analyst: BTJ |
| Alkalinity, Bicarbonate (As CaCO3) | 173 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 05/24/17 11:52 AM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 05/24/17 11:52 AM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 05/24/17 11:52 AM |
| Alkalinity, Total (As CaCO3) | 173 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 05/24/17 11:52 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 24-May-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (55420)
Lab Order: 1705214

Client Sample ID: BV-5
Lab ID: 1705214-03
Alternate ID: S17136165B
Collection Date: 05/16/17 09:05 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 0.0214 | 0.00500 | 0.0100 | | mg/L | 1 | 05/23/17 12:47 PM |
| Dissolved Molybdenum | 0.0106 | 0.00200 | 0.00500 | | mg/L | 1 | 05/23/17 12:47 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 05/22/17 03:46 PM |
| Arsenic | 0.00885 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 03:46 PM |
| Barium | 0.0452 | 0.00300 | 0.0100 | | mg/L | 1 | 05/22/17 03:46 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/22/17 03:46 PM |
| Boron | 1.17 | 0.100 | 0.300 | | mg/L | 10 | 05/23/17 11:28 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/22/17 03:46 PM |
| Calcium | 99.0 | 1.00 | 3.00 | | mg/L | 10 | 05/23/17 11:28 AM |
| Chromium | 0.00232 | 0.00200 | 0.00500 | J | mg/L | 1 | 05/22/17 03:46 PM |
| Cobalt | 0.0495 | 0.00300 | 0.00500 | | mg/L | 1 | 05/22/17 03:46 PM |
| Lead | 0.00151 | 0.000300 | 0.00100 | | mg/L | 1 | 05/22/17 03:46 PM |
| Lithium | 0.0171 | 0.00500 | 0.0100 | | mg/L | 1 | 05/22/17 03:46 PM |
| Magnesium | 16.2 | 0.100 | 0.300 | | mg/L | 1 | 05/22/17 03:46 PM |
| Molybdenum | 0.0102 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 03:46 PM |
| Potassium | 0.241 | 0.100 | 0.300 | J | mg/L | 1 | 05/22/17 03:46 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 03:46 PM |
| Sodium | 173 | 1.00 | 3.00 | | mg/L | 10 | 05/23/17 11:28 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 05/22/17 03:46 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: RO | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 05/22/17 01:55 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 35.1 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 05/24/17 12:05 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 05/24/17 12:05 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 05/24/17 12:05 PM |
| Alkalinity, Total (As CaCO3) | 35.1 | 20.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 05/24/17 12:05 PM |

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- B Analyte detected in the associated Method Blank
- C Sample Result or QC discussed in the Case Narrative
- DF Dilution Factor
- E TPH pattern not Gas or Diesel Range Pattern
- J Analyte detected between MDL and RL
- MDL Method Detection Limit
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 24-May-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR (55420)
Lab Order: 1705214

Client Sample ID: MW-11
Lab ID: 1705214-04
Alternate ID: S17136165C
Collection Date: 05/16/17 01:10 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|------|----------------|----|---------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | | | | Analyst: SP |
| Dissolved Lithium | 0.0120 | 0.00500 | 0.0100 | | mg/L | 1 | 05/23/17 12:49 PM |
| Dissolved Molybdenum | 0.00850 | 0.00200 | 0.00500 | | mg/L | 1 | 05/23/17 12:49 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | | | | Analyst: SP |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 05/22/17 03:48 PM |
| Arsenic | 0.0180 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 03:48 PM |
| Barium | 0.0869 | 0.00300 | 0.0100 | | mg/L | 1 | 05/22/17 03:48 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/22/17 03:48 PM |
| Boron | 1.39 | 0.100 | 0.300 | | mg/L | 10 | 05/23/17 11:30 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/22/17 03:48 PM |
| Calcium | 62.9 | 1.00 | 3.00 | | mg/L | 10 | 05/23/17 11:30 AM |
| Chromium | 0.00731 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 03:48 PM |
| Cobalt | 0.00310 | 0.00300 | 0.00500 | J | mg/L | 1 | 05/22/17 03:48 PM |
| Lead | 0.0113 | 0.000300 | 0.00100 | | mg/L | 1 | 05/22/17 03:48 PM |
| Lithium | 0.0144 | 0.00500 | 0.0100 | | mg/L | 1 | 05/22/17 03:48 PM |
| Magnesium | 5.71 | 0.100 | 0.300 | | mg/L | 1 | 05/22/17 03:48 PM |
| Molybdenum | 0.00841 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 03:48 PM |
| Potassium | 2.00 | 0.100 | 0.300 | | mg/L | 1 | 05/22/17 03:48 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 03:48 PM |
| Sodium | 65.0 | 1.00 | 3.00 | | mg/L | 10 | 05/23/17 11:30 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 05/22/17 03:48 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | | | Analyst: RO |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 05/22/17 01:57 PM |
| ALKALINITY | | M2320 B | | | | | Analyst: BTJ |
| Alkalinity, Bicarbonate (As CaCO3) | 148 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 05/24/17 12:11 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 05/24/17 12:11 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 05/24/17 12:11 PM |
| Alkalinity, Total (As CaCO3) | 148 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 05/24/17 12:11 PM |

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 24-May-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (55420)
Lab Order: 1705214

Client Sample ID: PS-3
Lab ID: 1705214-05
Alternate ID: S17136165D
Collection Date: 05/16/17 01:44 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|------|---------------|----|---------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | | | | Analyst: SP |
| Dissolved Lithium | 0.00896 | 0.00500 | 0.0100 | J | mg/L | 1 | 05/23/17 12:51 PM |
| Dissolved Molybdenum | 0.00541 | 0.00200 | 0.00500 | | mg/L | 1 | 05/23/17 12:51 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | | | | Analyst: SP |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 05/22/17 03:50 PM |
| Arsenic | 0.00902 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 03:50 PM |
| Barium | 0.107 | 0.00300 | 0.0100 | | mg/L | 1 | 05/22/17 03:50 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/22/17 03:50 PM |
| Boron | 1.53 | 0.100 | 0.300 | | mg/L | 10 | 05/23/17 11:32 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/22/17 03:50 PM |
| Calcium | 40.1 | 1.00 | 3.00 | | mg/L | 10 | 05/23/17 11:32 AM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 03:50 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 05/22/17 03:50 PM |
| Lead | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/22/17 03:50 PM |
| Lithium | 0.00883 | 0.00500 | 0.0100 | J | mg/L | 1 | 05/22/17 03:50 PM |
| Magnesium | 3.69 | 0.100 | 0.300 | | mg/L | 1 | 05/22/17 03:50 PM |
| Molybdenum | 0.00521 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 03:50 PM |
| Potassium | 2.28 | 0.100 | 0.300 | | mg/L | 1 | 05/22/17 03:50 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 03:50 PM |
| Sodium | 66.1 | 1.00 | 3.00 | | mg/L | 10 | 05/23/17 11:32 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 05/22/17 03:50 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | | | Analyst: RO |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 05/22/17 02:00 PM |
| ALKALINITY | | M2320 B | | | | | Analyst: BTJ |
| Alkalinity, Bicarbonate (As CaCO3) | 158 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 05/24/17 12:17 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 05/24/17 12:17 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 05/24/17 12:17 PM |
| Alkalinity, Total (As CaCO3) | 158 | 20.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 05/24/17 12:17 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 24-May-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR (55420)
Lab Order: 1705214

Client Sample ID: MW-5
Lab ID: 1705214-06
Alternate ID: S17136165E
Collection Date: 05/16/17 02:15 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|-----------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 0.0180 | 0.00500 | 0.0100 | | mg/L | 1 | 05/23/17 12:53 PM |
| Dissolved Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/23/17 12:53 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 05/22/17 03:52 PM |
| Arsenic | 0.0096 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 03:52 PM |
| Barium | 0.0708 | 0.00300 | 0.0100 | | mg/L | 1 | 05/22/17 03:52 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/22/17 03:52 PM |
| Boron | 0.215 | 0.0100 | 0.0300 | | mg/L | 1 | 05/23/17 12:15 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/22/17 03:52 PM |
| Calcium | 12.1 | 1.00 | 3.00 | | mg/L | 10 | 05/23/17 11:34 AM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 03:52 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 05/22/17 03:52 PM |
| Lead | 0.000346 | 0.000300 | 0.00100 | J | mg/L | 1 | 05/22/17 03:52 PM |
| Lithium | 0.0181 | 0.00500 | 0.0100 | | mg/L | 1 | 05/22/17 03:52 PM |
| Magnesium | 22.1 | 0.100 | 0.300 | | mg/L | 1 | 05/22/17 03:52 PM |
| Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 03:52 PM |
| Potassium | 1.56 | 0.100 | 0.300 | | mg/L | 1 | 05/22/17 03:52 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 03:52 PM |
| Sodium | 130 | 1.00 | 3.00 | | mg/L | 10 | 05/23/17 11:34 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 05/22/17 03:52 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: RO | | | |
| Mercury | <0.000800 | 0.000800 | 0.000200 | | mg/L | 1 | 05/22/17 02:02 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 288 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/24/17 12:28 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/24/17 12:28 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/24/17 12:28 PM |
| Alkalinity, Total (As CaCO3) | 288 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/24/17 12:28 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern J Analyte detected between MDL and RL
 MDL Method Detection Limit ND Not Detected at the Method Detection Limit
 RL Reporting Limit S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 24-May-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR (55420)
Lab Order: 1705214

Client Sample ID: Dup
Lab ID: 1705214-07
Alternate ID: S17136165F
Collection Date: 05/16/17
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|---------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 0.00845 | 0.00500 | 0.0100 | J | mg/L | 1 | 05/23/17 12:55 PM |
| Dissolved Molybdenum | 0.0153 | 0.00200 | 0.00500 | | mg/L | 1 | 05/23/17 12:55 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 05/22/17 03:54 PM |
| Arsenic | 0.00612 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 03:54 PM |
| Barium | 0.0768 | 0.00300 | 0.0100 | | mg/L | 1 | 05/22/17 03:54 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/22/17 03:54 PM |
| Boron | 1.95 | 0.100 | 0.300 | | mg/L | 10 | 05/23/17 11:36 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/22/17 03:54 PM |
| Calcium | 74.5 | 1.00 | 3.00 | | mg/L | 10 | 05/23/17 11:36 AM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 03:54 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 05/22/17 03:54 PM |
| Lead | 0.000360 | 0.000300 | 0.00100 | J | mg/L | 1 | 05/22/17 03:54 PM |
| Lithium | 0.00871 | 0.00500 | 0.0100 | J | mg/L | 1 | 05/22/17 03:54 PM |
| Magnesium | 8.62 | 0.100 | 0.300 | | mg/L | 1 | 05/22/17 03:54 PM |
| Molybdenum | 0.0148 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 03:54 PM |
| Potassium | 0.864 | 0.100 | 0.300 | | mg/L | 1 | 05/22/17 03:54 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 03:54 PM |
| Sodium | 72.6 | 1.00 | 3.00 | | mg/L | 10 | 05/23/17 11:36 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 05/22/17 03:54 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: RO | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 05/22/17 02:04 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 170 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 05/24/17 12:34 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 05/24/17 12:34 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 05/24/17 12:34 PM |
| Alkalinity, Total (As CaCO3) | 170 | 20.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 05/24/17 12:34 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 24-May-17

CLIENT: B-Environmental
 Work Order: 1705214
 Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_170522C

The QC data in batch 80558 applies to the following samples: 1705214-01A, 1705214-02A, 1705214-03A, 1705214-04A, 1705214-05A, 1705214-06A, 1705214-07A

| | | | | | | | |
|-----------|----------|-----------|------------------|----------------|----------------------|------------|-----------|
| Sample ID | MB-80558 | Batch ID: | 80558 | TestNo: | SW7470A | Units: | mg/L |
| SampType: | MBLK | Run ID: | CETAC2_HG_170522 | Analysis Date: | 5/22/2017 1:28:18 PM | Prep Date: | 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|------------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | <0.0000800 | 0.000200 | | | | | | | | |

| | | | | | | | |
|-----------|-----------|-----------|------------------|----------------|----------------------|------------|-----------|
| Sample ID | LCS-80558 | Batch ID: | 80558 | TestNo: | SW7470A | Units: | mg/L |
| SampType: | LCS | Run ID: | CETAC2_HG_170522 | Analysis Date: | 5/22/2017 1:30:34 PM | Prep Date: | 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00205 | 0.000200 | 0.00200 | 0 | 103 | 85 | 115 | | | |

| | | | | | | | |
|-----------|------------|-----------|------------------|----------------|----------------------|------------|-----------|
| Sample ID | LCSD-80558 | Batch ID: | 80558 | TestNo: | SW7470A | Units: | mg/L |
| SampType: | LCSD | Run ID: | CETAC2_HG_170522 | Analysis Date: | 5/22/2017 1:32:50 PM | Prep Date: | 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00205 | 0.000200 | 0.00200 | 0 | 103 | 85 | 115 | 0 | 15 | |

| | | | | | | | |
|-----------|----------------|-----------|------------------|----------------|----------------------|------------|-----------|
| Sample ID | 1705217-03A SD | Batch ID: | 80558 | TestNo: | SW7470A | Units: | mg/L |
| SampType: | SD | Run ID: | CETAC2_HG_170522 | Analysis Date: | 5/22/2017 1:37:23 PM | Prep Date: | 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|-----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | <0.000400 | 0.00100 | 0 | 0 | | | | 0 | 10 | |

| | | | | | | | |
|-----------|-----------------|-----------|------------------|----------------|----------------------|------------|-----------|
| Sample ID | 1705217-03A PDS | Batch ID: | 80558 | TestNo: | SW7470A | Units: | mg/L |
| SampType: | PDS | Run ID: | CETAC2_HG_170522 | Analysis Date: | 5/22/2017 1:39:38 PM | Prep Date: | 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00239 | 0.000200 | 0.00250 | 0 | 95.6 | 85 | 115 | | | |

| | | | | | | | |
|-----------|----------------|-----------|------------------|----------------|----------------------|------------|-----------|
| Sample ID | 1705217-03A MS | Batch ID: | 80558 | TestNo: | SW7470A | Units: | mg/L |
| SampType: | MS | Run ID: | CETAC2_HG_170522 | Analysis Date: | 5/22/2017 1:41:54 PM | Prep Date: | 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00207 | 0.000200 | 0.00200 | 0 | 104 | 80 | 120 | | | |

| | | | | | | | |
|-----------|-----------------|-----------|------------------|----------------|----------------------|------------|-----------|
| Sample ID | 1705217-03A MSD | Batch ID: | 80558 | TestNo: | SW7470A | Units: | mg/L |
| SampType: | MSD | Run ID: | CETAC2_HG_170522 | Analysis Date: | 5/22/2017 1:44:09 PM | Prep Date: | 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|-------|----------|------|
| Mercury | 0.00209 | 0.000200 | 0.00200 | 0 | 104 | 80 | 120 | 0.962 | 15 | |

- | | | | | |
|--------------------|----|---|-----|---------------------------------------|
| Qualifiers: | B | Analyte detected in the associated Method Blank | DF | Dilution Factor |
| | J | Analyte detected between MDL and RL | MDL | Method Detection Limit |
| | ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| | RL | Reporting Limit | S | Spike Recovery outside control limits |
| | J | Analyte detected between SDL and RL | N | Parameter not NELAC certified |

CLIENT: B-Environmental

Work Order: 1705214

Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170522A

The QC data in batch 80552 applies to the following samples: 1705214-01A, 1705214-02A, 1705214-03A, 1705214-04A, 1705214-05A, 1705214-06A, 1705214-07A

| Sample ID | MB-80552 | Batch ID: | 80552 | TestNo: | SW6020A | Units: | mg/L | | | |
|-----------|----------|-----------|-----------------|----------------|----------------------|------------|-----------|------|----------|------|
| SampType: | MBLK | Run ID: | ICP-MS4_170522A | Analysis Date: | 5/22/2017 3:30:00 PM | Prep Date: | 5/22/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|------------|-----------|---------|--|--|--|--|--|--|--|--|
| Antimony | <0.000800 | 0.00250 | | | | | | | | |
| Arsenic | <0.00200 | 0.00500 | | | | | | | | |
| Barium | <0.00300 | 0.0100 | | | | | | | | |
| Beryllium | <0.000300 | 0.00100 | | | | | | | | |
| Cadmium | <0.000300 | 0.00100 | | | | | | | | |
| Calcium | <0.100 | 0.300 | | | | | | | | |
| Chromium | <0.00200 | 0.00500 | | | | | | | | |
| Cobalt | <0.00300 | 0.00500 | | | | | | | | |
| Lead | <0.000300 | 0.00100 | | | | | | | | |
| Lithium | <0.00500 | 0.0100 | | | | | | | | |
| Magnesium | <0.100 | 0.300 | | | | | | | | |
| Molybdenum | <0.00200 | 0.00500 | | | | | | | | |
| Potassium | <0.100 | 0.300 | | | | | | | | |
| Selenium | <0.00200 | 0.00500 | | | | | | | | |
| Sodium | <0.100 | 0.300 | | | | | | | | |
| Thallium | <0.000500 | 0.00150 | | | | | | | | |

| Sample ID | LCS-80552 | Batch ID: | 80552 | TestNo: | SW6020A | Units: | mg/L | | | |
|-----------|-----------|-----------|-----------------|----------------|----------------------|------------|-----------|------|----------|------|
| SampType: | LCS | Run ID: | ICP-MS4_170522A | Analysis Date: | 5/22/2017 3:32:00 PM | Prep Date: | 5/22/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|------------|-------|---------|-------|---|------|----|-----|--|--|--|
| Antimony | 0.192 | 0.00250 | 0.200 | 0 | 95.9 | 80 | 120 | | | |
| Arsenic | 0.198 | 0.00500 | 0.200 | 0 | 99.2 | 80 | 120 | | | |
| Barium | 0.190 | 0.0100 | 0.200 | 0 | 95.0 | 80 | 120 | | | |
| Beryllium | 0.198 | 0.00100 | 0.200 | 0 | 99.1 | 80 | 120 | | | |
| Cadmium | 0.196 | 0.00100 | 0.200 | 0 | 97.8 | 80 | 120 | | | |
| Calcium | 4.97 | 0.300 | 5.00 | 0 | 99.3 | 80 | 120 | | | |
| Chromium | 0.200 | 0.00500 | 0.200 | 0 | 100 | 80 | 120 | | | |
| Cobalt | 0.201 | 0.00500 | 0.200 | 0 | 100 | 80 | 120 | | | |
| Lead | 0.195 | 0.00100 | 0.200 | 0 | 97.4 | 80 | 120 | | | |
| Lithium | 0.198 | 0.0100 | 0.200 | 0 | 99.1 | 80 | 120 | | | |
| Magnesium | 5.02 | 0.300 | 5.00 | 0 | 100 | 80 | 120 | | | |
| Molybdenum | 0.192 | 0.00500 | 0.200 | 0 | 95.9 | 80 | 120 | | | |
| Potassium | 5.04 | 0.300 | 5.00 | 0 | 101 | 80 | 120 | | | |
| Selenium | 0.198 | 0.00500 | 0.200 | 0 | 99.0 | 80 | 120 | | | |
| Sodium | 4.99 | 0.300 | 5.00 | 0 | 99.8 | 80 | 120 | | | |
| Thallium | 0.197 | 0.00150 | 0.200 | 0 | 98.3 | 80 | 120 | | | |

- | | | | | |
|--------------------|----|---|-----|---------------------------------------|
| Qualifiers: | B | Analyte detected in the associated Method Blank | DF | Dilution Factor |
| | J | Analyte detected between MDL and RL | MDL | Method Detection Limit |
| | ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| | RL | Reporting Limit | S | Spike Recovery outside control limits |
| | J | Analyte detected between SDL and RL | N | Parameter not NELAC certified |

CLIENT: B-Environmental
Work Order: 1705214
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170522A

| | | | |
|------------------------------|--------------------------------|--|-----------------------------|
| Sample ID: LCSD-80552 | Batch ID: 80552 | TestNo: SW6020A | Units: mg/L |
| SampType: LCSD | Run ID: ICP-MS4_170522A | Analysis Date: 5/22/2017 3:34:00 PM | Prep Date: 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | 0.193 | 0.00250 | 0.200 | 0 | 96.6 | 80 | 120 | 0.707 | 15 | |
| Arsenic | 0.199 | 0.00500 | 0.200 | 0 | 99.4 | 80 | 120 | 0.265 | 15 | |
| Barium | 0.190 | 0.0100 | 0.200 | 0 | 95.0 | 80 | 120 | 0.006 | 15 | |
| Beryllium | 0.199 | 0.00100 | 0.200 | 0 | 99.5 | 80 | 120 | 0.475 | 15 | |
| Cadmium | 0.196 | 0.00100 | 0.200 | 0 | 98.2 | 80 | 120 | 0.424 | 15 | |
| Calcium | 4.99 | 0.300 | 5.00 | 0 | 99.8 | 80 | 120 | 0.452 | 15 | |
| Chromium | 0.203 | 0.00500 | 0.200 | 0 | 101 | 80 | 120 | 1.41 | 15 | |
| Cobalt | 0.202 | 0.00500 | 0.200 | 0 | 101 | 80 | 120 | 0.468 | 15 | |
| Lead | 0.196 | 0.00100 | 0.200 | 0 | 98.2 | 80 | 120 | 0.750 | 15 | |
| Lithium | 0.197 | 0.0100 | 0.200 | 0 | 98.4 | 80 | 120 | 0.696 | 15 | |
| Magnesium | 5.08 | 0.300 | 5.00 | 0 | 102 | 80 | 120 | 1.07 | 15 | |
| Molybdenum | 0.194 | 0.00500 | 0.200 | 0 | 96.8 | 80 | 120 | 0.894 | 15 | |
| Potassium | 5.11 | 0.300 | 5.00 | 0 | 102 | 80 | 120 | 1.41 | 15 | |
| Selenium | 0.198 | 0.00500 | 0.200 | 0 | 99.0 | 80 | 120 | 0.065 | 15 | |
| Sodium | 5.01 | 0.300 | 5.00 | 0 | 100 | 80 | 120 | 0.505 | 15 | |
| Thallium | 0.198 | 0.00150 | 0.200 | 0 | 98.9 | 80 | 120 | 0.574 | 15 | |

| | | | |
|----------------------------------|--------------------------------|--|-----------------------------|
| Sample ID: 1705217-03A SD | Batch ID: 80552 | TestNo: SW6020A | Units: mg/L |
| SampType: SD | Run ID: ICP-MS4_170522A | Analysis Date: 5/22/2017 3:40:00 PM | Prep Date: 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | <0.00400 | 0.0125 | 0 | 0 | | | | 0 | 10 | |
| Arsenic | <0.0100 | 0.0250 | 0 | 0.00958 | | | | 0 | 10 | |
| Barium | 0.0990 | 0.0500 | 0 | 0.101 | | | | 1.73 | 10 | |
| Beryllium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Cadmium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Chromium | <0.0100 | 0.0250 | 0 | 0.00345 | | | | 0 | 10 | |
| Cobalt | <0.0150 | 0.0250 | 0 | 0.00305 | | | | 0 | 10 | |
| Lead | 0.00384 | 0.00500 | 0 | 0.00377 | | | | 1.89 | 10 | |
| Lithium | <0.0250 | 0.0500 | 0 | 0.00590 | | | | 0 | 10 | |
| Magnesium | 7.15 | 1.50 | 0 | 7.00 | | | | 2.15 | 10 | |
| Molybdenum | 0.0910 | 0.0250 | 0 | 0.0900 | | | | 1.12 | 10 | |
| Potassium | 1.11 | 1.50 | 0 | 1.08 | | | | 2.39 | 10 | |
| Selenium | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Thallium | <0.00250 | 0.00750 | 0 | 0 | | | | 0 | 10 | |

| | | | |
|-----------------------------------|--------------------------------|--|-----------------------------|
| Sample ID: 1705217-03A PDS | Batch ID: 80552 | TestNo: SW6020A | Units: mg/L |
| SampType: PDS | Run ID: ICP-MS4_170522A | Analysis Date: 5/22/2017 4:00:00 PM | Prep Date: 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.122 | 0.00250 | 0.200 | 0 | 60.8 | 80 | 120 | | | S |

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
 J Analyte detected between MDL and RL MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
 RL Reporting Limit S Spike Recovery outside control limits
 J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705214
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170522A

| | | | |
|----------------------------------|--------------------------------|--|-----------------------------|
| Sample ID 1705217-03A PDS | Batch ID: 80552 | TestNo: SW6020A | Units: mg/L |
| SampType: PDS | Run ID: ICP-MS4_170522A | Analysis Date: 5/22/2017 4:00:00 PM | Prep Date: 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Arsenic | 0.208 | 0.00500 | 0.200 | 0.00958 | 99.3 | 80 | 120 | | | |
| Barium | 0.285 | 0.0100 | 0.200 | 0.101 | 91.9 | 80 | 120 | | | |
| Beryllium | 0.189 | 0.00100 | 0.200 | 0 | 94.5 | 80 | 120 | | | |
| Cadmium | 0.191 | 0.00100 | 0.200 | 0 | 95.5 | 80 | 120 | | | |
| Chromium | 0.202 | 0.00500 | 0.200 | 0.00345 | 99.4 | 80 | 120 | | | |
| Cobalt | 0.196 | 0.00500 | 0.200 | 0.00305 | 96.6 | 80 | 120 | | | |
| Lead | 0.196 | 0.00100 | 0.200 | 0.00377 | 96.3 | 80 | 120 | | | |
| Lithium | 0.183 | 0.0100 | 0.200 | 0.00590 | 88.5 | 80 | 120 | | | |
| Magnesium | 11.1 | 0.300 | 5.00 | 7.00 | 82.1 | 80 | 120 | | | |
| Molybdenum | 0.274 | 0.00500 | 0.200 | 0.0899 | 91.8 | 80 | 120 | | | |
| Potassium | 5.81 | 0.300 | 5.00 | 1.08 | 94.5 | 80 | 120 | | | |
| Selenium | 0.189 | 0.00500 | 0.200 | 0 | 94.3 | 80 | 120 | | | |
| Thallium | 0.195 | 0.00150 | 0.200 | 0 | 97.3 | 80 | 120 | | | |

| | | | |
|---------------------------------|--------------------------------|--|-----------------------------|
| Sample ID 1705217-03A MS | Batch ID: 80552 | TestNo: SW6020A | Units: mg/L |
| SampType: MS | Run ID: ICP-MS4_170522A | Analysis Date: 5/22/2017 4:02:00 PM | Prep Date: 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.190 | 0.00250 | 0.200 | 0 | 95.2 | 80 | 120 | | | |
| Arsenic | 0.211 | 0.00500 | 0.200 | 0.00958 | 101 | 80 | 120 | | | |
| Barium | 0.280 | 0.0100 | 0.200 | 0.101 | 89.8 | 80 | 120 | | | |
| Beryllium | 0.191 | 0.00100 | 0.200 | 0 | 95.3 | 80 | 120 | | | |
| Cadmium | 0.191 | 0.00100 | 0.200 | 0 | 95.7 | 80 | 120 | | | |
| Chromium | 0.199 | 0.00500 | 0.200 | 0.00345 | 97.6 | 80 | 120 | | | |
| Cobalt | 0.199 | 0.00500 | 0.200 | 0.00305 | 97.9 | 80 | 120 | | | |
| Lead | 0.198 | 0.00100 | 0.200 | 0.00377 | 97.0 | 80 | 120 | | | |
| Lithium | 0.192 | 0.0100 | 0.200 | 0.00590 | 93.1 | 80 | 120 | | | |
| Magnesium | 11.4 | 0.300 | 5.00 | 7.00 | 88.9 | 80 | 120 | | | |
| Molybdenum | 0.280 | 0.00500 | 0.200 | 0.0899 | 95.1 | 80 | 120 | | | |
| Potassium | 5.91 | 0.300 | 5.00 | 1.08 | 96.5 | 80 | 120 | | | |
| Selenium | 0.194 | 0.00500 | 0.200 | 0 | 96.8 | 80 | 120 | | | |
| Thallium | 0.198 | 0.00150 | 0.200 | 0 | 98.8 | 80 | 120 | | | |

| | | | |
|----------------------------------|--------------------------------|--|-----------------------------|
| Sample ID 1705217-03A MSD | Batch ID: 80552 | TestNo: SW6020A | Units: mg/L |
| SampType: MSD | Run ID: ICP-MS4_170522A | Analysis Date: 5/22/2017 4:04:00 PM | Prep Date: 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|-----------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.187 | 0.00250 | 0.200 | 0 | 93.5 | 80 | 120 | 1.83 | 15 | |
| Arsenic | 0.205 | 0.00500 | 0.200 | 0.00958 | 97.9 | 80 | 120 | 2.64 | 15 | |
| Barium | 0.273 | 0.0100 | 0.200 | 0.101 | 86.3 | 80 | 120 | 2.50 | 15 | |
| Beryllium | 0.185 | 0.00100 | 0.200 | 0 | 92.5 | 80 | 120 | 2.97 | 15 | |

- | | |
|--|---|
| <p>Qualifiers:</p> <ul style="list-style-type: none"> B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | <ul style="list-style-type: none"> DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified |
|--|---|

CLIENT: B-Environmental
Work Order: 1705214
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170522A

| | | | |
|-----------------------------------|--------------------------------|--|-----------------------------|
| Sample ID: 1705217-03A MSD | Batch ID: 80552 | TestNo: SW6020A | Units: mg/L |
| SampType: MSD | Run ID: ICP-MS4_170522A | Analysis Date: 5/22/2017 4:04:00 PM | Prep Date: 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Cadmium | 0.185 | 0.00100 | 0.200 | 0 | 92.5 | 80 | 120 | 3.37 | 15 | |
| Chromium | 0.194 | 0.00500 | 0.200 | 0.00345 | 95.2 | 80 | 120 | 2.41 | 15 | |
| Cobalt | 0.193 | 0.00500 | 0.200 | 0.00305 | 94.9 | 80 | 120 | 3.07 | 15 | |
| Lead | 0.192 | 0.00100 | 0.200 | 0.00377 | 93.9 | 80 | 120 | 3.14 | 15 | |
| Lithium | 0.185 | 0.0100 | 0.200 | 0.00590 | 89.5 | 80 | 120 | 3.89 | 15 | |
| Magnesium | 11.3 | 0.300 | 5.00 | 7.00 | 85.6 | 80 | 120 | 1.43 | 15 | |
| Molybdenum | 0.272 | 0.00500 | 0.200 | 0.0899 | 91.2 | 80 | 120 | 2.79 | 15 | |
| Potassium | 5.84 | 0.300 | 5.00 | 1.08 | 95.2 | 80 | 120 | 1.11 | 15 | |
| Selenium | 0.191 | 0.00500 | 0.200 | 0 | 95.3 | 80 | 120 | 1.54 | 15 | |
| Thallium | 0.195 | 0.00150 | 0.200 | 0 | 97.5 | 80 | 120 | 1.38 | 15 | |

| | | |
|--------------------|--|---|
| Qualifiers: | B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified |
|--------------------|--|---|

CLIENT: B-Environmental
Work Order: 1705214
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170523A

The QC data in batch 80552 applies to the following samples: 1705214-01A, 1705214-02A, 1705214-03A, 1705214-04A, 1705214-05A, 1705214-06A, 1705214-07A

| | | | | | | | | | | |
|---------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID MB-80552 | Batch ID: 80552 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: MBLK | Run ID: ICP-MS4_170523A | Analysis Date: 5/23/2017 11:12:00 AM | Prep Date: 5/22/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | <0.0100 | 0.0300 | | | | | | | | |

| | | | | | | | | | | |
|----------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID LCS-80552 | Batch ID: 80552 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: LCS | Run ID: ICP-MS4_170523A | Analysis Date: 5/23/2017 11:14:00 AM | Prep Date: 5/22/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 0.204 | 0.0300 | 0.200 | 0 | 102 | 80 | 120 | | | |

| | | | | | | | | | | |
|-----------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|-------|----------|------|
| Sample ID LCSD-80552 | Batch ID: 80552 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: LCSD | Run ID: ICP-MS4_170523A | Analysis Date: 5/23/2017 11:16:00 AM | Prep Date: 5/22/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 0.205 | 0.0300 | 0.200 | 0 | 103 | 80 | 120 | 0.702 | 15 | |

| | | | | | | | | | | |
|---------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1705217-03A SD | Batch ID: 80552 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: SD | Run ID: ICP-MS4_170523A | Analysis Date: 5/23/2017 11:22:00 AM | Prep Date: 5/22/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 3.40 | 1.50 | 0 | 3.18 | | | | 6.88 | 10 | |
| Calcium | 52.2 | 15.0 | 0 | 53.3 | | | | 1.96 | 10 | |
| Sodium | 59.1 | 15.0 | 0 | 60.5 | | | | 2.30 | 10 | |

| | | | | | | | | | | |
|----------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1705217-03A PDS | Batch ID: 80552 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: PDS | Run ID: ICP-MS4_170523A | Analysis Date: 5/23/2017 11:40:00 AM | Prep Date: 5/22/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 5.30 | 0.300 | 2.00 | 3.18 | 106 | 80 | 120 | | | |
| Calcium | 104 | 3.00 | 50.0 | 53.3 | 102 | 80 | 120 | | | |
| Sodium | 115 | 3.00 | 50.0 | 60.5 | 109 | 80 | 120 | | | |

| | | | | | | | | | | |
|---------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1705217-03A MS | Batch ID: 80552 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: MS | Run ID: ICP-MS4_170523A | Analysis Date: 5/23/2017 11:42:00 AM | Prep Date: 5/22/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 3.22 | 0.300 | 0.200 | 3.18 | 22.9 | 80 | 120 | | | S |
| Calcium | 55.9 | 3.00 | 5.00 | 53.3 | 53.0 | 80 | 120 | | | S |
| Sodium | 68.4 | 3.00 | 5.00 | 60.5 | 158 | 80 | 120 | | | S |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705214
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170523A

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|-----------------------|------------|-----------|
| Sample ID | 1705217-03A MSD | Batch ID: | 80552 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | MSD | Run ID: | ICP-MS4_170523A | Analysis Date: | 5/23/2017 11:44:00 AM | Prep Date: | 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|-------|----------|------|
| Boron | 3.27 | 0.300 | 0.200 | 3.18 | 48.0 | 80 | 120 | 1.55 | 15 | S |
| Calcium | 55.8 | 3.00 | 5.00 | 53.3 | 49.9 | 80 | 120 | 0.276 | 15 | S |
| Sodium | 67.2 | 3.00 | 5.00 | 60.5 | 136 | 80 | 120 | 1.67 | 15 | S |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705214
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170523A

The QC data in batch 80556 applies to the following samples: 1705214-01B, 1705214-02B, 1705214-03B, 1705214-04B, 1705214-05B, 1705214-06B, 1705214-07B

| | | | | | | | | | | |
|------------|-----------------|-----------|------------------------|----------------|------------------------------|------------|------------------|------|----------|------|
| Sample ID | MB-80556 | Batch ID: | 80556 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | MBLK | Run ID: | ICP-MS4_170523A | Analysis Date: | 5/23/2017 12:31:00 PM | Prep Date: | 5/22/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | <0.00500 | 0.0100 | | | | | | | | |
| Molybdenum | <0.00200 | 0.00500 | | | | | | | | |

| | | | | | | | | | | |
|------------|------------------|-----------|------------------------|----------------|------------------------------|------------|------------------|------|----------|------|
| Sample ID | LCS-80556 | Batch ID: | 80556 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | LCS | Run ID: | ICP-MS4_170523A | Analysis Date: | 5/23/2017 12:33:00 PM | Prep Date: | 5/22/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.203 | 0.0100 | 0.200 | 0 | 101 | 80 | 120 | | | |
| Molybdenum | 0.198 | 0.00500 | 0.200 | 0 | 99.1 | 80 | 120 | | | |

| | | | | | | | | | | |
|------------|-------------------|-----------|------------------------|----------------|------------------------------|------------|------------------|------|----------|------|
| Sample ID | LCSD-80556 | Batch ID: | 80556 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | LCSD | Run ID: | ICP-MS4_170523A | Analysis Date: | 5/23/2017 12:35:00 PM | Prep Date: | 5/22/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.208 | 0.0100 | 0.200 | 0 | 104 | 80 | 120 | 2.70 | 15 | |
| Molybdenum | 0.204 | 0.00500 | 0.200 | 0 | 102 | 80 | 120 | 3.07 | 15 | |

| | | | | | | | | | | |
|------------|-----------------------|-----------|------------------------|----------------|------------------------------|------------|------------------|------|----------|------|
| Sample ID | 1705217-03B SD | Batch ID: | 80556 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | SD | Run ID: | ICP-MS4_170523A | Analysis Date: | 5/23/2017 12:41:00 PM | Prep Date: | 5/22/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | <0.0250 | 0.0500 | 0 | 0.00500 | | | | 0 | 10 | |
| Molybdenum | 0.0960 | 0.0250 | 0 | 0.0915 | | | | 4.78 | 10 | |

| | | | | | | | | | | |
|------------|------------------------|-----------|------------------------|----------------|-----------------------------|------------|------------------|------|----------|------|
| Sample ID | 1705217-03B PDS | Batch ID: | 80556 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | PDS | Run ID: | ICP-MS4_170523A | Analysis Date: | 5/23/2017 1:01:00 PM | Prep Date: | 5/22/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.192 | 0.0100 | 0.200 | 0.00500 | 93.5 | 80 | 120 | | | |
| Molybdenum | 0.279 | 0.00500 | 0.200 | 0.0915 | 93.7 | 80 | 120 | | | |

| | | | | | | | | | | |
|------------|-----------------------|-----------|------------------------|----------------|-----------------------------|------------|------------------|------|----------|------|
| Sample ID | 1705217-03B MS | Batch ID: | 80556 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | MS | Run ID: | ICP-MS4_170523A | Analysis Date: | 5/23/2017 1:03:00 PM | Prep Date: | 5/22/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.199 | 0.0100 | 0.200 | 0.00500 | 96.8 | 80 | 120 | | | |
| Molybdenum | 0.299 | 0.00500 | 0.200 | 0.0915 | 104 | 80 | 120 | | | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705214
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170523A

| Sample ID | 1705217-03B MSD | Batch ID: | 80556 | TestNo: | SW6020A | Units: | mg/L | | | |
|------------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|------|----------|------|
| SampType: | MSD | Run ID: | ICP-MS4_170523A | Analysis Date: | 5/23/2017 1:05:00 PM | Prep Date: | 5/22/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.193 | 0.0100 | 0.200 | 0.00500 | 94.2 | 80 | 120 | 2.62 | 15 | |
| Molybdenum | 0.290 | 0.00500 | 0.200 | 0.0915 | 99.3 | 80 | 120 | 3.10 | 15 | |

Qualifiers:
 B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL

DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705214
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_170524B

The QC data in batch 80594 applies to the following samples: 1705214-01C, 1705214-02C, 1705214-03C, 1705214-04C, 1705214-05C, 1705214-06C, 1705214-07C

| | | | |
|---------------------------|---------------------------------|---|------------------------------|
| Sample ID MB-80594 | Batch ID: 80594 | TestNo: M2320 B | Units: mg/L @ pH 4.24 |
| SampType: MBLK | Run ID: TITRATOR_170524B | Analysis Date: 5/24/2017 10:09:00 AM | Prep Date: 5/24/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Total (As CaCO3) | <20.0 | 20.0 | | | | | | | | |

| | | | |
|----------------------------|---------------------------------|---|-----------------------------|
| Sample ID LCS-80594 | Batch ID: 80594 | TestNo: M2320 B | Units: mg/L @ pH 4 |
| SampType: LCS | Run ID: TITRATOR_170524B | Analysis Date: 5/24/2017 10:13:00 AM | Prep Date: 5/24/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Total (As CaCO3) | 51.8 | 20.0 | 50.00 | 0 | 104 | 74 | 129 | | | |

| | | | |
|----------------------------------|---------------------------------|--|------------------------------|
| Sample ID 1705217-03C-DUP | Batch ID: 80594 | TestNo: M2320 B | Units: mg/L @ pH 4.51 |
| SampType: DUP | Run ID: TITRATOR_170524B | Analysis Date: 5/24/2017 1:17:00 PM | Prep Date: 5/24/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | 133 | 20.0 | 0 | 133.5 | | | | 0.375 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | 133 | 20.0 | 0 | 133.5 | | | | 0.375 | 20 | |

| | | | |
|----------------------------------|---------------------------------|--|------------------------------|
| Sample ID 1705238-01C-DUP | Batch ID: 80594 | TestNo: M2320 B | Units: mg/L @ pH 4.48 |
| SampType: DUP | Run ID: TITRATOR_170524B | Analysis Date: 5/24/2017 2:14:00 PM | Prep Date: 5/24/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | <10.0 | 20.0 | 0 | 10.00 | | | | 0 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | <20.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL

DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

2609 North River Road, Port Allen, Louisiana 70767
(800) 401-4277 -- FAX (225) 381-2996



ARS International, LLC

Laboratory Analysis Report

ARS1-17-01446

Prepared for:

B-Environmental

**Kevin Baros
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Victoria, TX 77901**

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Project Manager Review

Management Review

Notes: ARS International, LLC assumes no liability for the use or the interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

Contact Person: Questions regarding this analytical report should be addressed to:

**Project Manager
ProjectManagers@amrad.com**

**Phone: 225.381.2991
Fax: 225.381.2996**



LELAP Cert# 01949



2609 North River Road, Port Allen, Louisiana 70767
 1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01446
 Client Sample ID: S171361650 (BATCH 55420)
 Sample Collection Date: 05/16/17
 Sample Matrix: Aqueous
 Percent Solids: N/A

Request or PO Number: N/A
 ARS Sample ID: ARS1-17-01446-001
 Date Received: 05/23/17
 Report Date: 06/19/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CDRL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.280 | 0.144 | 0.142 | 0.052 | NP | Q | pCi/L | ARS-010/EPA 903.0/904.0 | 06/09/17 6:26 | SCAUSEY | 98% |
| Ra-228 | 1.055 | 0.693 | 1.047 | 0.483 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 06/02/17 11:50 | SCAUSEY | 98% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-01446

Request or PO Number: N/A

Client Sample ID: S17136165A (BATCH 55420)

ARS Sample ID: ARS1-17-01446-002

Sample Collection Date: 05/16/17

Date Received: 05/23/17

Sample Matrix: Aqueous

Report Date: 06/19/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CDRL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.144 | 0.148 | 0.232 | 0.096 | NP | U,Q | pCi/L | ARS-010/EPA 903.0/904.0 | 06/09/17 6:26 | SCAUSEY | 85% |
| Ra-228 | 0.630 | 0.808 | 1.349 | 0.629 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/02/17 11:50 | SCAUSEY | 85% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-01446

Request or PO Number: N/A

Client Sample ID: S17136165B (BATCH 55420)

ARS Sample ID: ARS1-17-01446-003

Sample Collection Date: 05/16/17

Date Received: 05/23/17

Sample Matrix: Aqueous

Report Date: 06/19/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CDRL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.359 | 0.198 | 0.235 | 0.095 | NP | Q | pCi/L | ARS-010/EPA 903.0/904.0 | 06/09/17 6:26 | SCAUSEY | 84% |
| Ra-228 | 0.396 | 0.799 | 1.374 | 0.639 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/02/17 11:49 | SCAUSEY | 81% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-01446
 Client Sample ID: S17136165C (BATCH 55420)
 Sample Collection Date: 05/16/17
 Sample Matrix: Aqueous
 Percent Solids: N/A

Request or PO Number: N/A
 ARS Sample ID: ARS1-17-01446-004
 Date Received: 05/23/17
 Report Date: 06/19/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CDRL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.308 | 0.169 | 0.195 | 0.077 | NP | Q | pCi/L | ARS-010/EPA 903.0/904.0 | 06/09/17 6:26 | SCAUSEY | 91% |
| Ra-228 | 1.110 | 0.786 | 1.213 | 0.564 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/02/17 11:49 | SCAUSEY | 91% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-01446

Request or PO Number: N/A

Client Sample ID: S1713616SD (BATCH 55420)

ARS Sample ID: ARS1-17-01446-005

Sample Collection Date: 05/16/17

Date Received: 05/23/17

Sample Matrix: Aqueous

Report Date: 06/19/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CDRL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.633 | 0.226 | 0.171 | 0.066 | NP | Q | pCi/L | ARS-010/EPA 903.0/904.0 | 06/09/17 6:26 | SCAUSEY | 99% |
| Ra-228 | -0.069 | 0.579 | 1.061 | 0.492 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/02/17 11:49 | SCAUSEY | 99% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-01446

Request or PO Number: N/A

Client Sample ID: S17136165E (BATCH 55420)

ARS Sample ID: ARS1-17-01446-006

Sample Collection Date: 05/16/17

Date Received: 05/23/17

Sample Matrix: Aqueous

Report Date: 06/19/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CDRL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.070 | 0.109 | 0.189 | 0.072 | NP | U,Q | pCi/L | ARS-010/EPA 903.0/904.0 | 06/09/17 6:26 | SCAUSEY | 80% |
| Ra-228 | 0.571 | 0.798 | 1.343 | 0.621 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/02/17 11:49 | SCAUSEY | 81% |

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Project Manager Review

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ARS Sample Delivery Group: ARS1-17-01446

Request or PO Number: N/A

Client Sample ID: S17136165F (BATCH 55420)

ARS Sample ID: ARS1-17-01446-007

Sample Collection Date: 05/11/17

Date Received: 05/23/17

Sample Matrix: Aqueous

Report Date: 06/19/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CDRL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.145 | 0.115 | 0.158 | 0.060 | NP | U,Q | pCi/L | ARS-010/EPA 903.0/904.0 | 06/09/17 6:26 | SCAUSEY | 96% |
| Ra-228 | 1.062 | 0.912 | 1.465 | 0.691 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/02/17 11:49 | SCAUSEY | 100% |

Project Manager Review

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QC Results Report

2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

Sample Delivery Group: ARS1-17-01446

Laboratory Control Sample Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | LCS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|----------------------|
| ARS1-B17-01071 | LCS | RA-226 | 28.575 | 4.601 | 0.092 | 27.549 | N/A | pCi/L | ARS-010/EPA 903 | 6/9/17 6:26 | SC | 104 | 75%-125% |
| ARS1-B17-01071 | LCS | RA-228 | 32.097 | 5.373 | 1.027 | 39.784 | N/A | pCi/L | ARS-010/EPA 904 | 6/9/17 6:26 | SC | 81 | 75%-125% |

Blank Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|
| ARS1-B17-01071 | MBL | RA-226 | 0.321 | 0.117 | 0.084 | NA | | pCi/L | ARS-010/EPA 903 | 6/9/17 6:26 | SC |
| ARS1-B17-01071 | MBL | RA-228 | -0.161 | 0.354 | 0.660 | NA | U | pCi/L | ARS-010/EPA 904 | 6/9/17 6:26 | SC |

RER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | RER | RER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01071 | LCSD | RA-226 | 28.575 | 4.601 | 29.708 | 4.786 | N/A | pCi/L | ARS-010/EPA 903 | 6/9/17 6:26 | SC | 0.12 | < 1 |
| ARS1-B17-01071 | LCSD | RA-228 | 32.097 | 5.373 | 33.794 | 5.632 | N/A | pCi/L | ARS-010/EPA 904 | 6/9/17 6:26 | SC | 0.15 | < 1 |

DER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | DER | DER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01071 | LCSD | RA-226 | 28.575 | 4.601 | 29.708 | 4.786 | N/A | pCi/L | ARS-010/EPA 903 | 6/9/17 6:26 | SC | 0.17 | < 3 |
| ARS1-B17-01071 | LCSD | RA-228 | 32.097 | 5.373 | 33.794 | 5.632 | N/A | pCi/L | ARS-010/EPA 904 | 6/9/17 6:26 | SC | 0.22 | < 3 |

Project Manager Review

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NELAP Certificate # E87558



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Notes (Case Narrative):

Comments:

- 1.0) All MDA/MDC values are calculated on a sample specific basis.
- 2.0) Soil and Sludge analysis are reported on a wet basis or an as received basis unless otherwise indicated.
- 3.0) Data in this report are within the limits of uncertainty specified in the reference method unless otherwise specified.
- 4.0) Modified analysis procedures are procedures that are modified to meet the certain specifications. An example may be the use of a water method to analyze a solid matrix due to the lack of an officially recognized procedure for the analysis of the solid matrix. Modified analyses are indicated by the subsequent addition of "m" to the procedure number (i.e. 900.0M).
- 5.0) Total activity is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring radioactive decay chains and other prominent radioactive nuclides. Total activity may be lower than the actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not representative of nuclides that emit solely alpha or beta particles.
- 6.0) Ra-228 is determined via secular equilibrium with its daughter, Actinium 228 (Gamma Spectroscopy only).
- 7.0) U-238 is determined via secular equilibrium with its daughter, Thorium 234 (Gamma Spectroscopy only).
- 8.0) All gamma spectroscopy was performed utilizing high purity germanium detectors (HPGe).
- 9.0) ARS makes every attempt to match sample density to calibrated density; however, in some cases, it is not practical or possible to do so and data results may be affected (Gamma Spectroscopy only).
- 10.0) Gamma spectroscopy results are calculated values based on the ORTEC® GammaVision ENV32 Analysis Engine.
- 11.0) ACLASS DOD and ISO 17025 certification applies only to the following analytes and methods: Gross Alpha and Gross Beta (EPA 900, SM7110B&C, SW846 9310); Radium 226 (EPA 903, EPA 903.1, SM 7500 Ra-B, SW846 9315); Radium 228 (EPA 904, SM 7500 Ra-B SW846 9320); Iodine-131(EPA 901.1); Uranium by ICPMS (EPA 200.8); Strontium 89/90 (EPA 905, Eichrom SRW01, HASL 300 Sr-03-RC); Tritium (EPA 906, EPA 906M); Gamma Emitters (EPA 901.1, SM7120B, HASL 300 Ga-01-R); Americium-241, Curium 242/244, Plutonium 239/240 and 241, Thorium 228/230/232, Uranium 234/233 and 238 (Eichrom ACW03 VBS); Lead 210 (HASL 300 Pb-01-RC, Eichrom OTW01); Polonium 210 (HASL 300 Po-01-RC, HASL 300 Po-02-RC); Technetium-99 (Eichrom TCW02, Eichrom TCS01M).

Method References:

- 1.0) EPA 600/4-80-032; Prescribed Procedures for the Measurements of Radioactivity in Drinking Water, August 1980.
- 2.0) Standard Methods for the Examination of Water and Wastewater (On-Line Edition)
- 3.0) EPA SW-846; Test Methods for Evaluating Solid Waste, (On-Line edition)
- 4.0) EPA 600/4-79-020; Methods for Chemical Analysis of Water and Waste, March 1983.
- 5.0) HASL 300; The Procedures Manual of the Environmental Measurements Laboratory, Volume I, 28th Edition February, 1997.

Definitions:

| | |
|----------|---|
| CRDL | Contract Required Detection Limit |
| CSU | Combined Standard Uncertainty |
| DLC | Decision Level Concentration (ANSI N42.23) or critical level |
| DO | Duplicate Original |
| DUP | Method Duplicate |
| LCS/LCSD | Laboratory Control Sample/Laboratory Control Sample Duplicate |
| MDA | Minimum Detectable Activity |
| MDC | (Minimum Detectable Concentration) minimum concentration of the analyte that ARS can detect utilizing the specific analysis |
| MBL | Method Blank |
| MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| N/A | Not Applicable |
| NP | Not Provided |
| NR | Not Referenced |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |

Data Qualifiers:

| | |
|----|--|
| B | The analyte is found in both the associated method blank and the sample. This flag indicates probable blank contamination. |
| D | Sample analysis accomplished through dilution. |
| J | The reported result is an estimated value above the limit of detection but outside of quantitation range (e.g., matrix interference was observed). |
| Q | One or more quality control criteria failed (e.g., LCS recovery, surrogate spike recovery, or CCV recovery). |
| U | Activity is below the MDC, MDA, MDL, or LOD |
| N | The analyte is a tentatively identified compound using mass spectrometry or any non-customer requested compounds that are tentatively identified. |
| * | LCS/LCSD or MS/MSD fails RPD criteria. |
| S | Spike |
| SC | Subcontracted out to another qualified laboratory |
| H | Holding time exceeded |

LELAP Cert# 01949

NELAP Cert# E87558

ARS-059-010
Revision: 9.1
Revision Date: 03-14-2017



Chain of Custody Record

Batch # 55420

TEMP UN-C-5,3

Page ___ of ___

Customer / Report Information
 Name: COLETO CREEK POWER
 Attention: RICK COLEMAN
 Address: [Blank]
 Billing Information: Check box if Billing is the same as Report Information
 Address: [Blank]
 Attention: [Blank]
 Project: CCR SANDPINS
 Comments: [Blank]
 PO#: [Blank]
 Batch # 55420
 THERM ID # 3
 TEMP CORR: 5.1
 Phone: 361-788-5145
 FAX: [Blank]
 EMAIL: Richard.Coleman@duyema.com
 Requested Analysis: DAA, C, F, S, P, B, E
 Completed By: Laboratory

| Client / Field Sample ID | Collected | | Matrix | Container | | Preservative | Custody Seals Present |
|--------------------------|-----------|------|--------|-----------|--------|--------------|-----------------------|
| | Date | Time | | TYPE | NUMBER | | |

| | | | | | | | | | |
|------|---------|------|-----|---|-------|-----|---|--|------------|
| MW-7 | 5-10-17 | 1117 | G W | P | 6 1/2 | 120 | <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE <input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE <input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | METALS Cl, F, SO4 PH TDS Ra ²²⁶ Ra ²²⁸ AIK Tot Carb Bicarb Diss Lig M | S171361650 |
|------|---------|------|-----|---|-------|-----|---|--|------------|

| | | | | | | | | | |
|------|---------|------|--|--|--|--|--|--|------------|
| MW-6 | 5-10-17 | 1030 | | | | | <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE <input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | | S17136165A |
|------|---------|------|--|--|--|--|--|--|------------|

| | | | | | | | | | |
|------|---------|-----|--|--|--|--|--|--|------------|
| BU-5 | 5-10-17 | 905 | | | | | <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE <input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | | S17136165B |
|------|---------|-----|--|--|--|--|--|--|------------|

| | | | | | | | | | |
|-------|---------|------|--|--|--|--|--|--|------------|
| MW-11 | 5-10-17 | 1310 | | | | | <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE <input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | | S17136165C |
|-------|---------|------|--|--|--|--|--|--|------------|

| | | | | | | | | | |
|------|---------|------|--|--|--|--|--|--|------------|
| PS-3 | 5-10-17 | 1344 | | | | | <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE <input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | | S17136165D |
|------|---------|------|--|--|--|--|--|--|------------|

| | | | | | | | | | |
|------|---------|------|--|--|--|--|--|--|------------|
| MW-5 | 5-10-17 | 1415 | | | | | <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE <input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | | S17136165E |
|------|---------|------|--|--|--|--|--|--|------------|

| | | | | | | | | | |
|-----|---------|------|--|--|--|--|--|--|------------|
| DUP | 5-10-17 | 1500 | | | | | <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE <input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | | S17136165F |
|-----|---------|------|--|--|--|--|--|--|------------|

Required Turnaround: Routine (6-10 Business Days) Expedite / Rush: 1 Business Day 2 Business Days 3 Business Days 5 Business Days Other

Surcharge will apply to RUSH TAT/ Authorized By: [Signature]

Relinquished By: [Signature] Date: 5-16-17 Time: 1500

Relinquished By: [Signature] Date: 5/16/17 Time: 1625

Relinquished By: [Signature] Date: 5/16/17 Time: 1625

Container Type: P=Plastic, G=Glass, V=VOA, O=Other

Carrier ID: [Blank]

REMARKS: [Blank]

1606 E Brazos Suite D, Victoria, Texas 77901 Ph. (361) 572-8224 Fax (361) 572-4115 Toll Free 1-800-460-8223 Form #1000-0-2 REV 1.2 Email: kbenviro@suddenlinkmail.com www.benviro.net

BatchNo: 55476

SAMPLE REPORT



T104704328-17-14

Business

Coletto Creek Power - R Coleman
PO Box 8
Fannin TX 77960
Att: Rick Coleman



Laboratory

B Environmental, LLC.
1606 E Brazos, Suite D
Victoria TX 77901
ph. 361-572-8224

Reference Information

Project: CCR Sampling
Printed: Wednesday,
June 21, 2017

Re: Coletto Creek Power - R Coleman

Dear: Rick Coleman

Attached are the results for sample(s) received on 5/17/2017

The analytical results relate only to the samples tested.

All supporting quality data meets the requirements of NELAC unless noted in the case narrative section of the report.

This report contains 39 pages (including the cover page)

If you have any questions concerning this report, please do not hesitate to call (361) 572-8224 or Fax us at (361) 572-4115

Respectfully Submitted,

Kevin Baros
Laboratory Director



B Environmental, LLC. 1606 E Brazos, Suite D Victoria TX 77901

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B Environmental, LLC.
1606 E Brazos, Suite D

BatchNo:

55476

Victoria TX 77901

Batch No:

Sample Receipt Checklist

Date Received:

Project Received By:

Login completed by:

Carrier Name

- YES NO Not Present
- YES NO Not Present
- YES NO Not Present
- YES NO
- YES NO
- YES NO
- YES NO
- YES NO
- YES NO
- YES NO
- YES NO >0 <6 °C On Ice
- YES NO No VOA Vials submitted
- YES NO Not Applicable

*TEMP pH Adjusted? Checked By

Any No and/or N/A (not applicable) response must be detailed in the comments section below.

Client contacted Person Contacted

Contacted by: Date Contacted:

Regarding

Comments

Corrective Action



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BatchNo:

55476

Page 3 of 39

1606 E Brazos, Suite D

Victoria TX 77901

Sample Report Information



| | | | | | |
|------------|------------|------------|-------|----------|--------|
| Sample ID: | S171371636 | Client ID: | MW-10 | Sampler: | Client |
|------------|------------|------------|-------|----------|--------|

Client: Coleta Creek Power - R Coleman

Batch No: 55476

Study: Water

Sampled: 5/16/2017

3:28 PM

Project: CCR Sampling

Location: MW #10

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 81 | mg/L | EPA 300 | K Baros | 5/18/2017 10:24 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 240 | mg/L | SM 2320 B | | 5/24/2017 12:48 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 5/24/2017 12:48 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 240 | mg/L | SM 2320 B | | 5/24/2017 12:48 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.81 | mg/L | EPA 300 | K Baros | 5/18/2017 10:24 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.35 | SU | SM 4500-H+B | C Watts | 5/17/2017 15:40 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 612 | mg/L | SM2540C | C Watts | 5/24/2017 17:45 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 5/22/2017 15:58 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 95 | mg/L | EPA 300 | K Baros | 5/18/2017 10:24 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 6/6/2017 7:35 | | | | | | <input checked="" type="checkbox"/> ARS International |



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BatchNo: 55476

Victoria TX 77901

Sample Report Information



| | | | | | |
|-------------------|-------------------|-------------------|---------------|-----------------|---------------|
| Sample ID: | S171371639 | Client ID: | MW-10A | Sampler: | Client |
|-------------------|-------------------|-------------------|---------------|-----------------|---------------|

Client: Coieto Creek Power - R Coleman
Study: Water
Project: CCR Sampling
Location: MW 10A
Notes:

Batch No: 55476
Sampled: 5/16/2017 3:58 PM
Type: Grab
Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 366 | mg/L | EPA 300 | K Baros | 5/18/2017 10:24 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 331 | mg/L | SM 2320 B | | 5/24/2017 13:06 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 5/24/2017 13:06 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 331 | mg/L | SM 2320 B | | 5/24/2017 13:06 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.43 | mg/L | EPA 300 | K Baros | 5/18/2017 10:24 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7 | SU | SM 4500-H+B | C Watts | 5/17/2017 15:40 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 1196 | mg/L | SM2540C | C Watts | 5/24/2017 17:45 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 5/22/2017 16:16 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 84 | mg/L | EPA 300 | K Baros | 5/18/2017 10:24 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 6/6/2017 7:35 | | | | | <input checked="" type="checkbox"/> | ARS International |



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BatchNo: 55476

Victoria TX 77901

Sample Report Information



| | | | | | |
|-------------------|-------------------|-------------------|-------------|-----------------|---------------|
| Sample ID: | S171371640 | Client ID: | MW-9 | Sampler: | Client |
|-------------------|-------------------|-------------------|-------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman
Study: Water
Project: CCR Sampling
Location: MW #9
Notes:

Batch No: 55476
Sampled: 5/17/2017 8:22 AM
Type: Grab
Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 67 | mg/L | EPA 300 | K Baros | 5/18/2017 10:24 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 134 | mg/L | SM 2320 B | | 5/24/2017 13:12 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 5/24/2017 13:12 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 134 | mg/L | SM 2320 B | | 5/24/2017 13:12 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 1.26 | mg/L | EPA 300 | K Baros | 5/18/2017 10:24 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.4 | SU | SM 4500-H+B | C Watts | 5/17/2017 15:40 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 440 | mg/L | SM2540C | C Watts | 5/24/2017 17:45 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 5/22/2017 15:38 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 58 | mg/L | EPA 300 | K Baros | 5/18/2017 10:24 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 6/6/2017 7:35 | | | | | | <input checked="" type="checkbox"/> ARS International |



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BatchNo: 55476

Sample Report Information



| | | |
|------------------------------|-------------------------|------------------------|
| Sample ID: S171371641 | Client ID: MW-9A | Sampler: Client |
|------------------------------|-------------------------|------------------------|

Client: Coletto Creek Power - R Coleman
 Study: Water
 Project: CCR Sampling
 Location: MW 9A
 Notes:

Batch No: 55476
 Sampled: 5/17/2017 9:10 AM
 Type: Grab
 Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 64 | mg/L | EPA 300 | K Baros | 5/18/2017 10:24 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 134 | mg/L | SM 2320 B | | 5/24/2017 13:23 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 5/24/2017 13:23 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 134 | mg/L | SM 2320 B | | 5/24/2017 13:23 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 1.25 | mg/L | EPA 300 | K Baros | 5/18/2017 10:24 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.59 | SU | SM 4500-H+B | C Watts | 5/17/2017 15:40 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 410 | mg/L | SM2540C | C Watts | 5/24/2017 17:45 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 5/22/2017 16:18 | | | | | <input checked="" type="checkbox"/> | PCS Cert No. T104704361-08 |
| Sulfate, IC | 65 | mg/L | EPA 300 | K Baros | 5/18/2017 10:24 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 6/6/2017 7:35 | | | | | <input checked="" type="checkbox"/> | ARS International |



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BatchNo: 55476

Sample Report Information



| | | | | | |
|------------|-------------------|------------|--------------|----------|---------------|
| Sample ID: | S171371642 | Client ID: | BV-21 | Sampler: | Client |
|------------|-------------------|------------|--------------|----------|---------------|

Client: Coletto Creek Power - R Coleman
 Study: Water

Batch No: 55476
 Sampled: 5/17/2017 1:08 PM

Project: CCR Sampling

Location: BV 21

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 39 | mg/L | EPA 300 | K Baros | 5/18/2017 10:24 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 237 | mg/L | SM 2320 B | | 5/24/2017 13:32 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 5/24/2017 13:32 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 237 | mg/L | SM 2320 B | | 5/24/2017 13:32 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.58 | mg/L | EPA 300 | K Baros | 5/18/2017 10:24 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.19 | SU | SM 4500-H+B | C Watts | 5/17/2017 15:40 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 454 | mg/L | SM2540C | C Watts | 5/24/2017 17:45 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 5/22/2017 16:20 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 53 | mg/L | EPA 300 | K Baros | 5/18/2017 10:24 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 6/6/2017 7:44 | | | | | | <input checked="" type="checkbox"/> ARS International |



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BatchNo: 55476

Victoria TX 77901

Sample Report Information



| | | | |
|------------------------------|-------------------------|-----------------|---------------|
| Sample ID: S171371643 | Client ID: BV-22 | Sampler: | Client |
|------------------------------|-------------------------|-----------------|---------------|

Client: Coleta Creek Power - R Coleman
Study: Water

Batch No: 55476
Sampled: 5/17/2017 1:46 PM

Project: CCR Sampling

Location: BV 22

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 36 | mg/L | EPA 300 | K Baros | 5/18/2017 10:24 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 235 | mg/L | SM 2320 B | | 5/24/2017 13:40 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 5/24/2017 13:40 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 235 | mg/L | SM 2320 B | | 5/24/2017 13:40 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.52 | mg/L | EPA 300 | K Baros | 5/18/2017 10:24 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.23 | SU | SM 4500-H+B | C Watts | 5/17/2017 15:40 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 392 | mg/L | SM2540C | C Watts | 5/24/2017 17:45 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 5/22/2017 16:22 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 33 | mg/L | EPA 300 | K Baros | 5/18/2017 10:24 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 6/14/2017 7:44 | | | | | | <input checked="" type="checkbox"/> ARS International |



B Environmental, LLC.

1606 E Brazos, Suite D

Victoria TX 77901

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B Environmental, LLC.
1606 E Brazos, Suite D

BatchNo: 55476

Victoria TX 77901



QA Summary Report

| Parameter | ID | Result | Ref Value | Amt Added | LOQ | Qualifier | Control | Flag | Comments |
|------------------------------------|------------|-----------|-----------|-----------|------|-----------|---------|----------|-------------------------------|
| Method Blank | | | | | | | | | |
| - Chloride, IC | Q171461202 | <1mg/L | 0 | | | | 1 | | Blank Acceptable. |
| 5/17/2017 13:27 | | | | | | | | | |
| Fluoride, IC | Q171461202 | <0.25mg/L | 0 | | 0.25 | | 0.25 | | Blank Acceptable. |
| 5/17/2017 13:27 | | | | | | | | | |
| Solids, Total Dissolved | Q171511045 | <25mg/L | 0 | | 10 | | 25 | | Blank Acceptable. |
| 5/24/2017 17:45 | | | | | | | | | |
| Sulfate, IC | Q171461202 | <1mg/L | 0 | | | | 1 | | Blank Acceptable. |
| 5/17/2017 13:27 | | | | | | | | | |
| Duplicate | | | | | | | | | |
| pH (Standard Units) | Q171381200 | 8.13SU | 8.11 | | | 2 | 0.2% | 20 | Duplicate RPD Acceptable. |
| 5/17/2017 15:40 | | | | | | | | | |
| pH (Standard Units) | Q17138120A | 7.55SU | 7.59 | | | 2 | 0.5% | 20 | Duplicate RPD Acceptable. |
| 5/17/2017 15:40 | | | | | | | | | |
| Solids, Total Dissolved | Q171511047 | 408mg/L | 410 | | | 10 | 0.5% | 20 | Duplicate RPD Acceptable. |
| 5/24/2017 17:45 | | | | | | | | | |
| Laboratory Control Standard | | | | | | | | | |
| - Chloride, IC | Q171461203 | 25.4mg/L | 25 | | | 1 | 101.6% | 80 - 120 | Standard Recovery Acceptable. |
| 5/17/2017 14:05 | | | | | | | 1.6% | 20 | Standard RPD Acceptable. |
| Fluoride, IC | Q171461203 | 2.07mg/L | 2 | | 0.25 | | 103.5% | 80 - 120 | Standard Recovery Acceptable. |
| 5/17/2017 14:05 | | | | | | | 3.4% | 20 | Standard RPD Acceptable. |
| pH (Standard Units) | Q171381159 | 7.02SU | 7 | | | 2 | 100.3% | 80 - 120 | Standard Recovery Acceptable. |
| 5/17/2017 15:40 | | | | | | | 0.3% | 20 | Standard RPD Acceptable. |
| Sulfate, IC | Q171461203 | 25.8mg/L | 25 | | | 1 | 103.2% | 80 - 120 | Standard Recovery Acceptable. |
| 5/17/2017 14:05 | | | | | | | 3.1% | 20 | Standard RPD Acceptable. |
| Matrix Spike | | | | | | | | | |
| - Chloride, IC | Q17146120A | 93.8mg/L | 93 | 25 | | 1 | 103.2% | 80 - 120 | Spike Recovery Acceptable. |
| 5/17/2017 22:58 | | | | | | | 0.9% | 20 | Spike RPD Acceptable. |
| - Chloride, IC | Q171461204 | 85.3mg/L | 82.1 | 25 | | 1 | 112.8% | 80 - 120 | Spike Recovery Acceptable. |
| 5/18/2017 12:57 | | | | | | | 3.8% | 20 | Spike RPD Acceptable. |
| Fluoride, IC | Q17146120A | 2.28mg/L | 2.39 | 2 | 0.25 | | 94.5% | 80 - 120 | Spike Recovery Acceptable. |
| 5/17/2017 22:58 | | | | | | | 4.7% | 20 | Spike RPD Acceptable. |
| Fluoride, IC | Q171461204 | 2.95mg/L | 3.12 | 2 | 0.25 | | 91.5% | 80 - 120 | Spike Recovery Acceptable. |
| 5/18/2017 12:57 | | | | | | | 5.6% | 20 | Spike RPD Acceptable. |
| Sulfate, IC | Q171461204 | 77mg/L | 83 | 25 | | 1 | 76.0% | 70 - 130 | Spike Recovery Acceptable. |
| 5/18/2017 12:57 | | | | | | | 7.5% | 20 | Spike RPD Acceptable. |
| Sulfate, IC | Q17146120A | 96.1mg/L | 96 | 25 | | 1 | 100.4% | 70 - 130 | Spike Recovery Acceptable. |
| 5/17/2017 22:58 | | | | | | | 0.1% | 20 | Spike RPD Acceptable. |



B Environmental, LLC.

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Victoria TX 77901

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B Environmental, LLC.
1606 E Brazos, Suite D

BatchNo: 55476

Victoria TX 77901

| Parameter | ID | Result | Ref Value | Amt Added | LOQ | Qualifier | Control | Flag | Comments |
|-----------------------------------|------------|----------|-----------|-----------|------|----------------|----------------|------|---|
| Matrix Spike Dup | | | | | | | | | |
| - Chloride, IC 5/17/2017 23:36 | Q17146120B | 93.8mg/L | 93 | 25 | 1 | 103.2% 0.9% | 80 - 120 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |
| - Chloride, IC 5/18/2017 13:35 | Q17146120C | 85mg/L | 82.1 | 25 | 1 | 111.6% 3.5% | 80 - 120 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Fluoride, IC 5/17/2017 23:36 | Q17146120B | 2.28mg/L | 2.39 | 2 | 0.25 | 94.5% 4.7% | 80 - 120 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Fluoride, IC 5/18/2017 13:35 | Q17146120C | 2.93mg/L | 3.12 | 2 | 0.25 | 90.5% 6.3% | 80 - 120 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Sulfate, IC 5/17/2017 23:36 | Q17146120B | 96.2mg/L | 96 | 25 | 1 | 100.8% 0.2% | 70 - 130 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Sulfate, IC 5/18/2017 13:35 | Q17146120C | 77mg/L | 83 | 25 | 1 | 76.0% 7.5% | 70 - 130 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |

Flag and Qualifier Legend

-  Negative - Result Detected *MDL = Method Detection Limit* *DF = Dilution Factor*
-  Caution - Problem Detected *LOQ = Limit of Quantitation* *j = Analyte detected between MDL and LOQ*
-  Warning - Null Value *S = surrogate standard out of limit* *H = sample out of hold time*
-  **MS, MSD, RPD- Failure may occur due to matrix interference, data released per QA plan**

Wednesday, June 21, 2017

B Environmental - LDMS QA Report Summary

Note:

THANK YOU!



B Environmental, LLC.

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Victoria TX

77901

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DHL Analytical, Inc.

Date: 25-May-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Lab Order: 1705217

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition and Standard Methods.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives except where noted in the following. For Total Metals Analysis, the recoveries of three analytes for the Matrix Spike and Matrix Spike Duplicate (1705217-03 MS/MSD) were outside of the method control limits. These are flagged accordingly in the QC Summary Report. These analytes were within method control limits in the associated LCS. No further corrective action was taken.

For Total Metals Analysis, the recovery of Antimony for the Post Digestion Spike (1705217-03 PDS) was below the method control limits. This is flagged accordingly in the QC Summary Report. This analyte was within method control limits in the associated Serial Dilution. No further corrective action was taken.

For Total/Dissolved Metals Analysis, the results of dissolved Lithium/Molybdenum for five samples were slightly higher than the results of total Lithium/Molybdenum. The results were within acceptable analytical variation limits. No further corrective action was taken.

DHL Analytical, Inc.

Date: 25-May-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (55476)
Lab Order: 1705217

Client Sample ID: MW-10
Lab ID: 1705217-01
Alternate ID: S171371636
Collection Date: 05/16/17 03:28 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 0.0136 | 0.00500 | 0.0100 | | mg/L | 1 | 05/23/17 12:59 PM |
| Dissolved Molybdenum | 0.105 | 0.00200 | 0.00500 | | mg/L | 1 | 05/23/17 12:59 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 05/22/17 03:58 PM |
| Arsenic | 0.0150 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 03:58 PM |
| Barium | 0.0598 | 0.00300 | 0.0100 | | mg/L | 1 | 05/22/17 03:58 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/22/17 03:58 PM |
| Boron | 7.45 | 0.200 | 0.600 | | mg/L | 20 | 05/23/17 11:54 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/22/17 03:58 PM |
| Calcium | 62.7 | 2.00 | 6.00 | | mg/L | 20 | 05/23/17 11:54 AM |
| Chromium | 0.00476 | 0.00200 | 0.00500 | J | mg/L | 1 | 05/22/17 03:58 PM |
| Cobalt | 0.00318 | 0.00300 | 0.00500 | J | mg/L | 1 | 05/22/17 03:58 PM |
| Lead | 0.000946 | 0.000300 | 0.00100 | J | mg/L | 1 | 05/22/17 03:58 PM |
| Lithium | 0.0123 | 0.00500 | 0.0100 | | mg/L | 1 | 05/22/17 03:58 PM |
| Magnesium | 9.73 | 0.100 | 0.300 | | mg/L | 1 | 05/22/17 03:58 PM |
| Molybdenum | 0.0987 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 03:58 PM |
| Potassium | 1.08 | 0.100 | 0.300 | | mg/L | 1 | 05/22/17 03:58 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 03:58 PM |
| Sodium | 137 | 2.00 | 6.00 | | mg/L | 20 | 05/23/17 11:54 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 05/22/17 03:58 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: RO | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 05/22/17 02:15 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 240 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/24/17 12:48 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/24/17 12:48 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/24/17 12:48 PM |
| Alkalinity, Total (As CaCO3) | 240 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/24/17 12:48 PM |

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 25-May-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (55476)
Lab Order: 1705217

Client Sample ID: MW-10A
Lab ID: 1705217-02
Alternate ID: S171371639
Collection Date: 05/16/17 03:58 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 0.0228 | 0.00500 | 0.0100 | | mg/L | 1 | 05/23/17 01:15 PM |
| Dissolved Molybdenum | 0.00248 | 0.00200 | 0.00500 | J | mg/L | 1 | 05/23/17 01:15 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 05/22/17 04:16 PM |
| Arsenic | 0.00542 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 04:16 PM |
| Barium | 0.0986 | 0.00300 | 0.0100 | | mg/L | 1 | 05/22/17 04:16 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/22/17 04:16 PM |
| Boron | 0.33 | 0.0100 | 0.0300 | | mg/L | 1 | 05/23/17 12:17 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/22/17 04:16 PM |
| Calcium | 180 | 1.00 | 3.00 | | mg/L | 10 | 05/23/17 11:56 AM |
| Chromium | 0.00835 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 04:16 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 05/22/17 04:16 PM |
| Lead | 0.00180 | 0.000300 | 0.00100 | | mg/L | 1 | 05/22/17 04:16 PM |
| Lithium | 0.0250 | 0.00500 | 0.0100 | | mg/L | 1 | 05/22/17 04:16 PM |
| Magnesium | 31.1 | 1.00 | 3.00 | | mg/L | 10 | 05/23/17 11:56 AM |
| Molybdenum | 0.00275 | 0.00200 | 0.00500 | J | mg/L | 1 | 05/22/17 04:16 PM |
| Potassium | 1.87 | 0.100 | 0.300 | | mg/L | 1 | 05/22/17 04:16 PM |
| Selenium | 0.00231 | 0.00200 | 0.00500 | J | mg/L | 1 | 05/22/17 04:16 PM |
| Sodium | 176 | 1.00 | 3.00 | | mg/L | 10 | 05/23/17 11:56 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 05/22/17 04:16 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: RO | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 05/22/17 02:18 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 331 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/24/17 01:06 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/24/17 01:06 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/24/17 01:06 PM |
| Alkalinity, Total (As CaCO3) | 331 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/24/17 01:06 PM |

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 25-May-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (55476)
Lab Order: 1705217

Client Sample ID: MW-9
Lab ID: 1705217-03
Alternate ID: S171371640
Collection Date: 05/17/17 08:22 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|---------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 0.00500 | 0.00500 | 0.0100 | J | mg/L | 1 | 05/23/17 12:39 PM |
| Dissolved Molybdenum | 0.0915 | 0.00200 | 0.00500 | | mg/L | 1 | 05/23/17 12:39 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 05/22/17 03:38 PM |
| Arsenic | 0.00958 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 03:38 PM |
| Barium | 0.101 | 0.00300 | 0.0100 | | mg/L | 1 | 05/22/17 03:38 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/22/17 03:38 PM |
| Boron | 3.18 | 0.100 | 0.300 | | mg/L | 10 | 05/23/17 11:20 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/22/17 03:38 PM |
| Calcium | 53.3 | 1.00 | 3.00 | | mg/L | 10 | 05/23/17 11:20 AM |
| Chromium | 0.00545 | 0.00200 | 0.00500 | J | mg/L | 1 | 05/22/17 03:38 PM |
| Cobalt | 0.00305 | 0.00300 | 0.00500 | J | mg/L | 1 | 05/22/17 03:38 PM |
| Lead | 0.00377 | 0.000300 | 0.00100 | | mg/L | 1 | 05/22/17 03:38 PM |
| Lithium | 0.00590 | 0.00500 | 0.0100 | J | mg/L | 1 | 05/22/17 03:38 PM |
| Magnesium | 7.09 | 0.100 | 0.300 | | mg/L | 1 | 05/22/17 03:38 PM |
| Molybdenum | 0.0899 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 03:38 PM |
| Potassium | 1.08 | 0.100 | 0.300 | | mg/L | 1 | 05/22/17 03:38 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 03:38 PM |
| Sodium | 60.5 | 1.00 | 3.00 | | mg/L | 10 | 05/23/17 11:20 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 05/22/17 03:38 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: RO | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 05/22/17 01:35 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 134 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 05/24/17 01:12 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 05/24/17 01:12 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 05/24/17 01:12 PM |
| Alkalinity, Total (As CaCO3) | 134 | 20.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 05/24/17 01:12 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 25-May-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (55476)
Lab Order: 1705217

Client Sample ID: MW-9A
Lab ID: 1705217-04
Alternate ID: S171371641
Collection Date: 05/17/17 09:10 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|------|---------------|----|---------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | | | | Analyst: SP |
| Dissolved Lithium | 0.00573 | 0.00500 | 0.0100 | J | mg/L | 1 | 05/23/17 01:17 PM |
| Dissolved Molybdenum | 0.0833 | 0.00200 | 0.00500 | | mg/L | 1 | 05/23/17 01:17 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | | | | Analyst: SP |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 05/22/17 04:18 PM |
| Arsenic | 0.0104 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 04:18 PM |
| Barium | 0.0894 | 0.00300 | 0.0100 | | mg/L | 1 | 05/22/17 04:18 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/22/17 04:18 PM |
| Boron | 3.53 | 0.100 | 0.300 | | mg/L | 10 | 05/23/17 11:58 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/22/17 04:18 PM |
| Calcium | 61.6 | 1.00 | 3.00 | | mg/L | 10 | 05/23/17 11:58 AM |
| Chromium | 0.00561 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 04:18 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 05/22/17 04:18 PM |
| Lead | 0.00173 | 0.000300 | 0.00100 | | mg/L | 1 | 05/22/17 04:18 PM |
| Lithium | 0.00637 | 0.00500 | 0.0100 | J | mg/L | 1 | 05/22/17 04:18 PM |
| Magnesium | 5.32 | 0.100 | 0.300 | | mg/L | 1 | 05/22/17 04:18 PM |
| Molybdenum | 0.0804 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 04:18 PM |
| Potassium | 0.959 | 0.100 | 0.300 | | mg/L | 1 | 05/22/17 04:18 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 04:18 PM |
| Sodium | 65.1 | 1.00 | 3.00 | | mg/L | 10 | 05/23/17 11:58 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 05/22/17 04:18 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | | | Analyst: RO |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 05/22/17 02:20 PM |
| ALKALINITY | | M2320 B | | | | | Analyst: BTJ |
| Alkalinity, Bicarbonate (As CaCO3) | 134 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 05/24/17 01:23 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 05/24/17 01:23 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 05/24/17 01:23 PM |
| Alkalinity, Total (As CaCO3) | 134 | 20.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 05/24/17 01:23 PM |

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 25-May-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR (55476)
Lab Order: 1705217

Client Sample ID: BV-21
Lab ID: 1705217-05
Alternate ID: S171371642
Collection Date: 05/17/17 01:08 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 0.00550 | 0.00500 | 0.0100 | J | mg/L | 1 | 05/23/17 01:19 PM |
| Dissolved Molybdenum | 0.00290 | 0.00200 | 0.00500 | J | mg/L | 1 | 05/23/17 01:19 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 05/22/17 04:20 PM |
| Arsenic | 0.117 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 04:20 PM |
| Barium | 0.0944 | 0.00300 | 0.0100 | | mg/L | 1 | 05/22/17 04:20 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/22/17 04:20 PM |
| Boron | 0.709 | 0.100 | 0.300 | | mg/L | 10 | 05/23/17 12:00 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/22/17 04:20 PM |
| Calcium | 74.3 | 1.00 | 3.00 | | mg/L | 10 | 05/23/17 12:00 PM |
| Chromium | 0.00309 | 0.00200 | 0.00500 | J | mg/L | 1 | 05/22/17 04:20 PM |
| Cobalt | 0.00878 | 0.00300 | 0.00500 | | mg/L | 1 | 05/22/17 04:20 PM |
| Lead | 0.000724 | 0.000300 | 0.00100 | J | mg/L | 1 | 05/22/17 04:20 PM |
| Lithium | <0.00500 | 0.00500 | 0.0100 | | mg/L | 1 | 05/22/17 04:20 PM |
| Magnesium | 7.96 | 0.100 | 0.300 | | mg/L | 1 | 05/22/17 04:20 PM |
| Molybdenum | 0.00287 | 0.00200 | 0.00500 | J | mg/L | 1 | 05/22/17 04:20 PM |
| Potassium | 0.877 | 0.100 | 0.300 | | mg/L | 1 | 05/22/17 04:20 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 04:20 PM |
| Sodium | 62.6 | 1.00 | 3.00 | | mg/L | 10 | 05/23/17 12:00 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 05/22/17 04:20 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: RO | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 05/22/17 02:22 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 237 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/24/17 01:32 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/24/17 01:32 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/24/17 01:32 PM |
| Alkalinity, Total (As CaCO3) | 237 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 05/24/17 01:32 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 25-May-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (55476)
Lab Order: 1705217

Client Sample ID: BV-22
Lab ID: 1705217-06
Alternate ID: S171371643
Collection Date: 05/17/17 01:46 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|------|----------------|----|---------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | | | | Analyst: SP |
| Dissolved Lithium | 0.00650 | 0.00500 | 0.0100 | J | mg/L | 1 | 05/23/17 01:21 PM |
| Dissolved Molybdenum | 0.00869 | 0.00200 | 0.00500 | | mg/L | 1 | 05/23/17 01:21 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | | | | Analyst: SP |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 05/22/17 04:22 PM |
| Arsenic | 0.00719 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 04:22 PM |
| Barium | 0.0455 | 0.00300 | 0.0100 | | mg/L | 1 | 05/22/17 04:22 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/22/17 04:22 PM |
| Boron | 0.641 | 0.100 | 0.300 | | mg/L | 10 | 05/23/17 12:02 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/22/17 04:22 PM |
| Calcium | 62.7 | 1.00 | 3.00 | | mg/L | 10 | 05/23/17 12:02 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 04:22 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 05/22/17 04:22 PM |
| Lead | 0.000638 | 0.000300 | 0.00100 | J | mg/L | 1 | 05/22/17 04:22 PM |
| Lithium | 0.00647 | 0.00500 | 0.0100 | J | mg/L | 1 | 05/22/17 04:22 PM |
| Magnesium | 9.62 | 0.100 | 0.300 | | mg/L | 1 | 05/22/17 04:22 PM |
| Molybdenum | 0.00889 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 04:22 PM |
| Potassium | 0.977 | 0.100 | 0.300 | | mg/L | 1 | 05/22/17 04:22 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 04:22 PM |
| Sodium | 62.0 | 1.00 | 3.00 | | mg/L | 10 | 05/23/17 12:02 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 05/22/17 04:22 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | | | Analyst: RO |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 05/22/17 02:25 PM |
| ALKALINITY | | M2320 B | | | | | Analyst: BTJ |
| Alkalinity, Bicarbonate (As CaCO3) | 235 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 05/24/17 01:40 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 05/24/17 01:40 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 05/24/17 01:40 PM |
| Alkalinity, Total (As CaCO3) | 235 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 05/24/17 01:40 PM |

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 25-May-17

CLIENT: B-Environmental
Work Order: 1705217
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_170522C

The QC data in batch 80558 applies to the following samples: 1705217-01A, 1705217-02A, 1705217-03A, 1705217-04A, 1705217-05A, 1705217-06A

| | | | |
|---------------------------|---------------------------------|--|-----------------------------|
| Sample ID MB-80558 | Batch ID: 80558 | TestNo: SW7470A | Units: mg/L |
| SampType: MBLK | Run ID: CETAC2_HG_170522 | Analysis Date: 5/22/2017 1:28:18 PM | Prep Date: 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|------------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | <0.0000800 | 0.000200 | | | | | | | | |

| | | | |
|----------------------------|---------------------------------|--|-----------------------------|
| Sample ID LCS-80558 | Batch ID: 80558 | TestNo: SW7470A | Units: mg/L |
| SampType: LCS | Run ID: CETAC2_HG_170522 | Analysis Date: 5/22/2017 1:30:34 PM | Prep Date: 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00205 | 0.000200 | 0.00200 | 0 | 103 | 85 | 115 | | | |

| | | | |
|-----------------------------|---------------------------------|--|-----------------------------|
| Sample ID LCSD-80558 | Batch ID: 80558 | TestNo: SW7470A | Units: mg/L |
| SampType: LCSD | Run ID: CETAC2_HG_170522 | Analysis Date: 5/22/2017 1:32:50 PM | Prep Date: 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00205 | 0.000200 | 0.00200 | 0 | 103 | 85 | 115 | 0 | 15 | |

| | | | |
|---------------------------------|---------------------------------|--|-----------------------------|
| Sample ID 1705217-03A SD | Batch ID: 80558 | TestNo: SW7470A | Units: mg/L |
| SampType: SD | Run ID: CETAC2_HG_170522 | Analysis Date: 5/22/2017 1:37:23 PM | Prep Date: 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|-----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | <0.000400 | 0.00100 | 0 | 0 | | | | 0 | 10 | |

| | | | |
|----------------------------------|---------------------------------|--|-----------------------------|
| Sample ID 1705217-03A PDS | Batch ID: 80558 | TestNo: SW7470A | Units: mg/L |
| SampType: PDS | Run ID: CETAC2_HG_170522 | Analysis Date: 5/22/2017 1:39:38 PM | Prep Date: 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00239 | 0.000200 | 0.00250 | 0 | 95.6 | 85 | 115 | | | |

| | | | |
|---------------------------------|---------------------------------|--|-----------------------------|
| Sample ID 1705217-03A MS | Batch ID: 80558 | TestNo: SW7470A | Units: mg/L |
| SampType: MS | Run ID: CETAC2_HG_170522 | Analysis Date: 5/22/2017 1:41:54 PM | Prep Date: 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00207 | 0.000200 | 0.00200 | 0 | 104 | 80 | 120 | | | |

| | | | |
|----------------------------------|---------------------------------|--|-----------------------------|
| Sample ID 1705217-03A MSD | Batch ID: 80558 | TestNo: SW7470A | Units: mg/L |
| SampType: MSD | Run ID: CETAC2_HG_170522 | Analysis Date: 5/22/2017 1:44:09 PM | Prep Date: 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|-------|----------|------|
| Mercury | 0.00209 | 0.000200 | 0.00200 | 0 | 104 | 80 | 120 | 0.962 | 15 | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705217
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170522A

The QC data in batch 80552 applies to the following samples: 1705217-01A, 1705217-02A, 1705217-03A, 1705217-04A, 1705217-05A, 1705217-06A

| | | | |
|---------------------------|--------------------------------|--|-----------------------------|
| Sample ID MB-80552 | Batch ID: 80552 | TestNo: SW6020A | Units: mg/L |
| SampType: MBLK | Run ID: ICP-MS4_170522A | Analysis Date: 5/22/2017 3:30:00 PM | Prep Date: 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|-----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | <0.000800 | 0.00250 | | | | | | | | |
| Arsenic | <0.00200 | 0.00500 | | | | | | | | |
| Barium | <0.00300 | 0.0100 | | | | | | | | |
| Beryllium | <0.000300 | 0.00100 | | | | | | | | |
| Cadmium | <0.000300 | 0.00100 | | | | | | | | |
| Calcium | <0.100 | 0.300 | | | | | | | | |
| Chromium | <0.00200 | 0.00500 | | | | | | | | |
| Cobalt | <0.00300 | 0.00500 | | | | | | | | |
| Lead | <0.000300 | 0.00100 | | | | | | | | |
| Lithium | <0.00500 | 0.0100 | | | | | | | | |
| Magnesium | <0.100 | 0.300 | | | | | | | | |
| Molybdenum | <0.00200 | 0.00500 | | | | | | | | |
| Potassium | <0.100 | 0.300 | | | | | | | | |
| Selenium | <0.00200 | 0.00500 | | | | | | | | |
| Sodium | <0.100 | 0.300 | | | | | | | | |
| Thallium | <0.000500 | 0.00150 | | | | | | | | |

| | | | |
|----------------------------|--------------------------------|--|-----------------------------|
| Sample ID LCS-80552 | Batch ID: 80552 | TestNo: SW6020A | Units: mg/L |
| SampType: LCS | Run ID: ICP-MS4_170522A | Analysis Date: 5/22/2017 3:32:00 PM | Prep Date: 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.192 | 0.00250 | 0.200 | 0 | 95.9 | 80 | 120 | | | |
| Arsenic | 0.198 | 0.00500 | 0.200 | 0 | 99.2 | 80 | 120 | | | |
| Barium | 0.190 | 0.0100 | 0.200 | 0 | 95.0 | 80 | 120 | | | |
| Beryllium | 0.198 | 0.00100 | 0.200 | 0 | 99.1 | 80 | 120 | | | |
| Cadmium | 0.196 | 0.00100 | 0.200 | 0 | 97.8 | 80 | 120 | | | |
| Calcium | 4.97 | 0.300 | 5.00 | 0 | 99.3 | 80 | 120 | | | |
| Chromium | 0.200 | 0.00500 | 0.200 | 0 | 100 | 80 | 120 | | | |
| Cobalt | 0.201 | 0.00500 | 0.200 | 0 | 100 | 80 | 120 | | | |
| Lead | 0.195 | 0.00100 | 0.200 | 0 | 97.4 | 80 | 120 | | | |
| Lithium | 0.198 | 0.0100 | 0.200 | 0 | 99.1 | 80 | 120 | | | |
| Magnesium | 5.02 | 0.300 | 5.00 | 0 | 100 | 80 | 120 | | | |
| Molybdenum | 0.192 | 0.00500 | 0.200 | 0 | 95.9 | 80 | 120 | | | |
| Potassium | 5.04 | 0.300 | 5.00 | 0 | 101 | 80 | 120 | | | |
| Selenium | 0.198 | 0.00500 | 0.200 | 0 | 99.0 | 80 | 120 | | | |
| Sodium | 4.99 | 0.300 | 5.00 | 0 | 99.8 | 80 | 120 | | | |
| Thallium | 0.197 | 0.00150 | 0.200 | 0 | 98.3 | 80 | 120 | | | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705217
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170522A

| | | | | | | | |
|-----------|------------|-----------|-----------------|----------------|----------------------|------------|-----------|
| Sample ID | LCSD-80552 | Batch ID: | 80552 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | LCSD | Run ID: | ICP-MS4_170522A | Analysis Date: | 5/22/2017 3:34:00 PM | Prep Date: | 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | 0.193 | 0.00250 | 0.200 | 0 | 96.6 | 80 | 120 | 0.707 | 15 | |
| Arsenic | 0.199 | 0.00500 | 0.200 | 0 | 99.4 | 80 | 120 | 0.265 | 15 | |
| Barium | 0.190 | 0.0100 | 0.200 | 0 | 95.0 | 80 | 120 | 0.006 | 15 | |
| Beryllium | 0.199 | 0.00100 | 0.200 | 0 | 99.5 | 80 | 120 | 0.475 | 15 | |
| Cadmium | 0.196 | 0.00100 | 0.200 | 0 | 98.2 | 80 | 120 | 0.424 | 15 | |
| Calcium | 4.99 | 0.300 | 5.00 | 0 | 99.8 | 80 | 120 | 0.452 | 15 | |
| Chromium | 0.203 | 0.00500 | 0.200 | 0 | 101 | 80 | 120 | 1.41 | 15 | |
| Cobalt | 0.202 | 0.00500 | 0.200 | 0 | 101 | 80 | 120 | 0.468 | 15 | |
| Lead | 0.196 | 0.00100 | 0.200 | 0 | 98.2 | 80 | 120 | 0.750 | 15 | |
| Lithium | 0.197 | 0.0100 | 0.200 | 0 | 98.4 | 80 | 120 | 0.696 | 15 | |
| Magnesium | 5.08 | 0.300 | 5.00 | 0 | 102 | 80 | 120 | 1.07 | 15 | |
| Molybdenum | 0.194 | 0.00500 | 0.200 | 0 | 96.8 | 80 | 120 | 0.894 | 15 | |
| Potassium | 5.11 | 0.300 | 5.00 | 0 | 102 | 80 | 120 | 1.41 | 15 | |
| Selenium | 0.198 | 0.00500 | 0.200 | 0 | 99.0 | 80 | 120 | 0.065 | 15 | |
| Sodium | 5.01 | 0.300 | 5.00 | 0 | 100 | 80 | 120 | 0.505 | 15 | |
| Thallium | 0.198 | 0.00150 | 0.200 | 0 | 98.9 | 80 | 120 | 0.574 | 15 | |

| | | | | | | | |
|-----------|----------------|-----------|-----------------|----------------|----------------------|------------|-----------|
| Sample ID | 1705217-03A SD | Batch ID: | 80552 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | SD | Run ID: | ICP-MS4_170522A | Analysis Date: | 5/22/2017 3:40:00 PM | Prep Date: | 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | <0.00400 | 0.0125 | 0 | 0 | | | | 0 | 10 | |
| Arsenic | <0.0100 | 0.0250 | 0 | 0.00958 | | | | 0 | 10 | |
| Barium | 0.0990 | 0.0500 | 0 | 0.101 | | | | 1.73 | 10 | |
| Beryllium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Cadmium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Chromium | <0.0100 | 0.0250 | 0 | 0.00345 | | | | 0 | 10 | |
| Cobalt | <0.0150 | 0.0250 | 0 | 0.00305 | | | | 0 | 10 | |
| Lead | 0.00384 | 0.00500 | 0 | 0.00377 | | | | 1.89 | 10 | |
| Lithium | <0.0250 | 0.0500 | 0 | 0.00590 | | | | 0 | 10 | |
| Magnesium | 7.15 | 1.50 | 0 | 7.00 | | | | 2.15 | 10 | |
| Molybdenum | 0.0910 | 0.0250 | 0 | 0.0900 | | | | 1.12 | 10 | |
| Potassium | 1.11 | 1.50 | 0 | 1.08 | | | | 2.39 | 10 | |
| Selenium | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Thallium | <0.00250 | 0.00750 | 0 | 0 | | | | 0 | 10 | |

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|
| Sample ID | 1705217-03A PDS | Batch ID: | 80552 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | PDS | Run ID: | ICP-MS4_170522A | Analysis Date: | 5/22/2017 4:00:00 PM | Prep Date: | 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.122 | 0.00250 | 0.200 | 0 | 60.8 | 80 | 120 | | | S |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705217
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170522A

| | | | |
|-----------------------------------|--------------------------------|--|-----------------------------|
| Sample ID: 1705217-03A PDS | Batch ID: 80552 | TestNo: SW6020A | Units: mg/L |
| SampType: PDS | Run ID: ICP-MS4_170522A | Analysis Date: 5/22/2017 4:00:00 PM | Prep Date: 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Arsenic | 0.208 | 0.00500 | 0.200 | 0.00958 | 99.3 | 80 | 120 | | | |
| Barium | 0.285 | 0.0100 | 0.200 | 0.101 | 91.9 | 80 | 120 | | | |
| Beryllium | 0.189 | 0.00100 | 0.200 | 0 | 94.5 | 80 | 120 | | | |
| Cadmium | 0.191 | 0.00100 | 0.200 | 0 | 95.5 | 80 | 120 | | | |
| Chromium | 0.202 | 0.00500 | 0.200 | 0.00345 | 99.4 | 80 | 120 | | | |
| Cobalt | 0.196 | 0.00500 | 0.200 | 0.00305 | 96.6 | 80 | 120 | | | |
| Lead | 0.196 | 0.00100 | 0.200 | 0.00377 | 96.3 | 80 | 120 | | | |
| Lithium | 0.183 | 0.0100 | 0.200 | 0.00590 | 88.5 | 80 | 120 | | | |
| Magnesium | 11.1 | 0.300 | 5.00 | 7.00 | 82.1 | 80 | 120 | | | |
| Molybdenum | 0.274 | 0.00500 | 0.200 | 0.0899 | 91.8 | 80 | 120 | | | |
| Potassium | 5.81 | 0.300 | 5.00 | 1.08 | 94.5 | 80 | 120 | | | |
| Selenium | 0.189 | 0.00500 | 0.200 | 0 | 94.3 | 80 | 120 | | | |
| Thallium | 0.195 | 0.00150 | 0.200 | 0 | 97.3 | 80 | 120 | | | |

| | | | |
|----------------------------------|--------------------------------|--|-----------------------------|
| Sample ID: 1705217-03A MS | Batch ID: 80552 | TestNo: SW6020A | Units: mg/L |
| SampType: MS | Run ID: ICP-MS4_170522A | Analysis Date: 5/22/2017 4:02:00 PM | Prep Date: 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.190 | 0.00250 | 0.200 | 0 | 95.2 | 80 | 120 | | | |
| Arsenic | 0.211 | 0.00500 | 0.200 | 0.00958 | 101 | 80 | 120 | | | |
| Barium | 0.280 | 0.0100 | 0.200 | 0.101 | 89.8 | 80 | 120 | | | |
| Beryllium | 0.191 | 0.00100 | 0.200 | 0 | 95.3 | 80 | 120 | | | |
| Cadmium | 0.191 | 0.00100 | 0.200 | 0 | 95.7 | 80 | 120 | | | |
| Chromium | 0.199 | 0.00500 | 0.200 | 0.00345 | 97.6 | 80 | 120 | | | |
| Cobalt | 0.199 | 0.00500 | 0.200 | 0.00305 | 97.9 | 80 | 120 | | | |
| Lead | 0.198 | 0.00100 | 0.200 | 0.00377 | 97.0 | 80 | 120 | | | |
| Lithium | 0.192 | 0.0100 | 0.200 | 0.00590 | 93.1 | 80 | 120 | | | |
| Magnesium | 11.4 | 0.300 | 5.00 | 7.00 | 88.9 | 80 | 120 | | | |
| Molybdenum | 0.280 | 0.00500 | 0.200 | 0.0899 | 95.1 | 80 | 120 | | | |
| Potassium | 5.91 | 0.300 | 5.00 | 1.08 | 96.5 | 80 | 120 | | | |
| Selenium | 0.194 | 0.00500 | 0.200 | 0 | 96.8 | 80 | 120 | | | |
| Thallium | 0.198 | 0.00150 | 0.200 | 0 | 98.8 | 80 | 120 | | | |

| | | | |
|-----------------------------------|--------------------------------|--|-----------------------------|
| Sample ID: 1705217-03A MSD | Batch ID: 80552 | TestNo: SW6020A | Units: mg/L |
| SampType: MSD | Run ID: ICP-MS4_170522A | Analysis Date: 5/22/2017 4:04:00 PM | Prep Date: 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|-----------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.187 | 0.00250 | 0.200 | 0 | 93.5 | 80 | 120 | 1.83 | 15 | |
| Arsenic | 0.205 | 0.00500 | 0.200 | 0.00958 | 97.9 | 80 | 120 | 2.64 | 15 | |
| Barium | 0.273 | 0.0100 | 0.200 | 0.101 | 86.3 | 80 | 120 | 2.50 | 15 | |
| Beryllium | 0.185 | 0.00100 | 0.200 | 0 | 92.5 | 80 | 120 | 2.97 | 15 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705217
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170522A

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|
| Sample ID | 1705217-03A MSD | Batch ID: | 80552 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | MSD | Run ID: | ICP-MS4_170522A | Analysis Date: | 5/22/2017 4:04:00 PM | Prep Date: | 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Cadmium | 0.185 | 0.00100 | 0.200 | 0 | 92.5 | 80 | 120 | 3.37 | 15 | |
| Chromium | 0.194 | 0.00500 | 0.200 | 0.00345 | 95.2 | 80 | 120 | 2.41 | 15 | |
| Cobalt | 0.193 | 0.00500 | 0.200 | 0.00305 | 94.9 | 80 | 120 | 3.07 | 15 | |
| Lead | 0.192 | 0.00100 | 0.200 | 0.00377 | 93.9 | 80 | 120 | 3.14 | 15 | |
| Lithium | 0.185 | 0.0100 | 0.200 | 0.00590 | 89.5 | 80 | 120 | 3.89 | 15 | |
| Magnesium | 11.3 | 0.300 | 5.00 | 7.00 | 85.6 | 80 | 120 | 1.43 | 15 | |
| Molybdenum | 0.272 | 0.00500 | 0.200 | 0.0899 | 91.2 | 80 | 120 | 2.79 | 15 | |
| Potassium | 5.84 | 0.300 | 5.00 | 1.08 | 95.2 | 80 | 120 | 1.11 | 15 | |
| Selenium | 0.191 | 0.00500 | 0.200 | 0 | 95.3 | 80 | 120 | 1.54 | 15 | |
| Thallium | 0.195 | 0.00150 | 0.200 | 0 | 97.5 | 80 | 120 | 1.38 | 15 | |

| | | | | |
|--------------------|----|---|-----|---------------------------------------|
| Qualifiers: | B | Analyte detected in the associated Method Blank | DF | Dilution Factor |
| | J | Analyte detected between MDL and RL | MDL | Method Detection Limit |
| | ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| | RL | Reporting Limit | S | Spike Recovery outside control limits |
| | J | Analyte detected between SDL and RL | N | Parameter not NELAC certified |

CLIENT: B-Environmental
Work Order: 1705217
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170523A

The QC data in batch 80552 applies to the following samples: 1705217-01A, 1705217-02A, 1705217-03A, 1705217-04A, 1705217-05A, 1705217-06A

| | | | | | | | | | | |
|---------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID MB-80552 | Batch ID: 80552 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: MBLK | Run ID: ICP-MS4_170523A | Analysis Date: 5/23/2017 11:12:00 AM | Prep Date: 5/22/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | <0.0100 | 0.0300 | | | | | | | | |

| | | | | | | | | | | |
|----------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID LCS-80552 | Batch ID: 80552 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: LCS | Run ID: ICP-MS4_170523A | Analysis Date: 5/23/2017 11:14:00 AM | Prep Date: 5/22/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 0.204 | 0.0300 | 0.200 | 0 | 102 | 80 | 120 | | | |

| | | | | | | | | | | |
|-----------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|-------|----------|------|
| Sample ID LCSD-80552 | Batch ID: 80552 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: LCSD | Run ID: ICP-MS4_170523A | Analysis Date: 5/23/2017 11:16:00 AM | Prep Date: 5/22/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 0.205 | 0.0300 | 0.200 | 0 | 103 | 80 | 120 | 0.702 | 15 | |

| | | | | | | | | | | |
|---------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1705217-03A SD | Batch ID: 80552 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: SD | Run ID: ICP-MS4_170523A | Analysis Date: 5/23/2017 11:22:00 AM | Prep Date: 5/22/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 3.40 | 1.50 | 0 | 3.18 | | | | 6.88 | 10 | |
| Calcium | 52.2 | 15.0 | 0 | 53.3 | | | | 1.96 | 10 | |
| Sodium | 59.1 | 15.0 | 0 | 60.5 | | | | 2.30 | 10 | |

| | | | | | | | | | | |
|----------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1705217-03A PDS | Batch ID: 80552 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: PDS | Run ID: ICP-MS4_170523A | Analysis Date: 5/23/2017 11:40:00 AM | Prep Date: 5/22/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 5.30 | 0.300 | 2.00 | 3.18 | 106 | 80 | 120 | | | |
| Calcium | 104 | 3.00 | 50.0 | 53.3 | 102 | 80 | 120 | | | |
| Sodium | 115 | 3.00 | 50.0 | 60.5 | 109 | 80 | 120 | | | |

| | | | | | | | | | | |
|---------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1705217-03A MS | Batch ID: 80552 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: MS | Run ID: ICP-MS4_170523A | Analysis Date: 5/23/2017 11:42:00 AM | Prep Date: 5/22/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 3.22 | 0.300 | 0.200 | 3.18 | 22.9 | 80 | 120 | | | S |
| Calcium | 55.9 | 3.00 | 5.00 | 53.3 | 53.0 | 80 | 120 | | | S |
| Sodium | 68.4 | 3.00 | 5.00 | 60.5 | 158 | 80 | 120 | | | S |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705217
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170523A

| Sample ID | 1705217-03A MSD | Batch ID: | 80552 | TestNo: | SW6020A | Units: | mg/L | | | |
|-----------|-----------------|-----------|-----------------|----------------|-----------------------|------------|-----------|-------|----------|------|
| SampType: | MSD | Run ID: | ICP-MS4_170523A | Analysis Date: | 5/23/2017 11:44:00 AM | Prep Date: | 5/22/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 3.27 | 0.300 | 0.200 | 3.18 | 48.0 | 80 | 120 | 1.55 | 15 | S |
| Calcium | 55.8 | 3.00 | 5.00 | 53.3 | 49.9 | 80 | 120 | 0.276 | 15 | S |
| Sodium | 67.2 | 3.00 | 5.00 | 60.5 | 136 | 80 | 120 | 1.67 | 15 | S |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705217
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170523A

The QC data in batch 80556 applies to the following samples: 1705217-01B, 1705217-02B, 1705217-03B, 1705217-04B, 1705217-05B, 1705217-06B

| | | | | | | | | | | |
|---------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID MB-80556 | Batch ID: 80556 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: MBLK | Run ID: ICP-MS4_170523A | Analysis Date: 5/23/2017 12:31:00 PM | Prep Date: 5/22/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | <0.00500 | 0.0100 | | | | | | | | |
| Molybdenum | <0.00200 | 0.00500 | | | | | | | | |

| | | | | | | | | | | |
|----------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID LCS-80556 | Batch ID: 80556 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: LCS | Run ID: ICP-MS4_170523A | Analysis Date: 5/23/2017 12:33:00 PM | Prep Date: 5/22/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.203 | 0.0100 | 0.200 | 0 | 101 | 80 | 120 | | | |
| Molybdenum | 0.198 | 0.00500 | 0.200 | 0 | 99.1 | 80 | 120 | | | |

| | | | | | | | | | | |
|-----------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID LCSD-80556 | Batch ID: 80556 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: LCSD | Run ID: ICP-MS4_170523A | Analysis Date: 5/23/2017 12:35:00 PM | Prep Date: 5/22/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.208 | 0.0100 | 0.200 | 0 | 104 | 80 | 120 | 2.70 | 15 | |
| Molybdenum | 0.204 | 0.00500 | 0.200 | 0 | 102 | 80 | 120 | 3.07 | 15 | |

| | | | | | | | | | | |
|---------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1705217-03B SD | Batch ID: 80556 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: SD | Run ID: ICP-MS4_170523A | Analysis Date: 5/23/2017 12:41:00 PM | Prep Date: 5/22/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | <0.0250 | 0.0500 | 0 | 0.00500 | | | | 0 | 10 | |
| Molybdenum | 0.0960 | 0.0250 | 0 | 0.0915 | | | | 4.78 | 10 | |

| | | | | | | | | | | |
|----------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1705217-03B PDS | Batch ID: 80556 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: PDS | Run ID: ICP-MS4_170523A | Analysis Date: 5/23/2017 1:01:00 PM | Prep Date: 5/22/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.192 | 0.0100 | 0.200 | 0.00500 | 93.5 | 80 | 120 | | | |
| Molybdenum | 0.279 | 0.00500 | 0.200 | 0.0915 | 93.7 | 80 | 120 | | | |

| | | | | | | | | | | |
|---------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1705217-03B MS | Batch ID: 80556 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: MS | Run ID: ICP-MS4_170523A | Analysis Date: 5/23/2017 1:03:00 PM | Prep Date: 5/22/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Dissolved Lithium | 0.199 | 0.0100 | 0.200 | 0.00500 | 96.8 | 80 | 120 | | | |
| Dissolved Molybdenum | 0.299 | 0.00500 | 0.200 | 0.0915 | 104 | 80 | 120 | | | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705217
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170523A

| | | | | | | | | | | |
|----------------------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|------|----------|------|
| Sample ID | 1705217-03B MSD | Batch ID: | 80556 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | MSD | Run ID: | ICP-MS4_170523A | Analysis Date: | 5/23/2017 1:05:00 PM | Prep Date: | 5/22/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Dissolved Lithium | 0.193 | 0.0100 | 0.200 | 0.00500 | 94.2 | 80 | 120 | 2.62 | 15 | |
| Dissolved Molybdenum | 0.290 | 0.00500 | 0.200 | 0.0915 | 99.3 | 80 | 120 | 3.10 | 15 | |

| | | | | |
|--------------------|----|---|-----|---------------------------------------|
| Qualifiers: | B | Analyte detected in the associated Method Blank | DF | Dilution Factor |
| | J | Analyte detected between MDL and RL | MDL | Method Detection Limit |
| | ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| | RL | Reporting Limit | S | Spike Recovery outside control limits |
| | J | Analyte detected between SDL and RL | N | Parameter not NELAC certified |

CLIENT: B-Environmental
Work Order: 1705217
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_170524B

The QC data in batch 80594 applies to the following samples: 1705217-01C, 1705217-02C, 1705217-03C, 1705217-04C, 1705217-05C, 1705217-06C

| | | | |
|---------------------------|---------------------------------|---|------------------------------|
| Sample ID MB-80594 | Batch ID: 80594 | TestNo: M2320 B | Units: mg/L @ pH 4.24 |
| SampType: MBLK | Run ID: TITRATOR_170524B | Analysis Date: 5/24/2017 10:09:00 AM | Prep Date: 5/24/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Total (As CaCO3) | <20.0 | 20.0 | | | | | | | | |

| | | | |
|----------------------------|---------------------------------|---|-----------------------------|
| Sample ID LCS-80594 | Batch ID: 80594 | TestNo: M2320 B | Units: mg/L @ pH 4 |
| SampType: LCS | Run ID: TITRATOR_170524B | Analysis Date: 5/24/2017 10:13:00 AM | Prep Date: 5/24/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Total (As CaCO3) | 51.8 | 20.0 | 50.00 | 0 | 104 | 74 | 129 | | | |

| | | | |
|----------------------------------|---------------------------------|--|------------------------------|
| Sample ID 1705217-03C-DUP | Batch ID: 80594 | TestNo: M2320 B | Units: mg/L @ pH 4.51 |
| SampType: DUP | Run ID: TITRATOR_170524B | Analysis Date: 5/24/2017 1:17:00 PM | Prep Date: 5/24/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | 133 | 20.0 | 0 | 133.5 | | | | 0.375 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | 133 | 20.0 | 0 | 133.5 | | | | 0.375 | 20 | |

| | | | |
|----------------------------------|---------------------------------|--|------------------------------|
| Sample ID 1705238-01C-DUP | Batch ID: 80594 | TestNo: M2320 B | Units: mg/L @ pH 4.48 |
| SampType: DUP | Run ID: TITRATOR_170524B | Analysis Date: 5/24/2017 2:14:00 PM | Prep Date: 5/24/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | <10.0 | 20.0 | 0 | 10.00 | | | | 0 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | <20.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

2609 North River Road, Port Allen, Louisiana 70767

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ARS International, LLC

Laboratory Analysis Report

ARS1-17-01440

Prepared for:

B-Environmental

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Project Manager Review

Management Review

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Contact Person: Questions regarding this analytical report should be addressed to:

**Project Manager
ProjectManagers@amrad.com**

**Phone: 225.381.2991
Fax: 225.381.2996**



LELAP Cert# 01949



2609 North River Road, Port Allen, Louisiana 70767
 1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01440

Request or PO Number: N/A

Client Sample ID: S171371636 (BATCH 55476)

ARS Sample ID: ARS1-17-01440-001

Sample Collection Date: 05/16/17

Date Received: 05/22/17

Sample Matrix: Aqueous

Report Date: 06/16/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CDRL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.183 | 0.144 | 0.209 | 0.087 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/06/17 7:35 | SCAUSEY | 94% |
| Ra-228 | -0.415 | 0.652 | 1.235 | 0.576 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 05/30/17 12:46 | SCAUSEY | 99% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-01440

Request or PO Number: N/A

Client Sample ID: S171371639 (BATCH 55476)

ARS Sample ID: ARS1-17-01440-002

Sample Collection Date: 05/16/17

Date Received: 05/22/17

Sample Matrix: Aqueous

Report Date: 06/16/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CDRL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.342 | 0.178 | 0.205 | 0.083 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 06/06/17 7:35 | SCAUSEY | 96% |
| Ra-228 | 0.039 | 0.664 | 1.191 | 0.554 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 05/30/17 12:46 | SCAUSEY | 92% |

Project Manager Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

LELAP Certificate# 01949



2609 North River Road, Port Allen, Louisiana 70767
 1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01440

Request or PO Number: N/A

Client Sample ID: S171371640 (BATCH 55476)

ARS Sample ID: ARS1-17-01440-003

Sample Collection Date: 05/17/17

Date Received: 05/22/17

Sample Matrix: Aqueous

Report Date: 06/16/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CDRL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.360 | 0.170 | 0.176 | 0.070 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 06/06/17 7:35 | SCAUSEY | 102% |
| Ra-228 | -0.004 | 0.615 | 1.114 | 0.517 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 05/30/17 12:46 | SCAUSEY | 96% |

Project Manager Review

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 1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01440

Request or PO Number: N/A

Client Sample ID: S1713716461 (BATCH 55476)

ARS Sample ID: ARS1-17-01440-004

Sample Collection Date: 05/17/17

Date Received: 05/22/17

Sample Matrix: Aqueous

Report Date: 06/16/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CDRL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.482 | 0.204 | 0.185 | 0.072 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 06/06/17 7:35 | SCAUSEY | 91% |
| Ra-228 | 1.122 | 0.747 | 1.137 | 0.527 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 05/30/17 12:46 | SCAUSEY | 90% |

Project Manager Review

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2609 North River Road, Port Allen, Louisiana 70767
 1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01440
 Client Sample ID: S171371642 (BATCH 55476)
 Sample Collection Date: 05/17/17
 Sample Matrix: Aqueous
 Percent Solids: N/A

Request or PO Number: N/A
 ARS Sample ID: ARS1-17-01440-005
 Date Received: 05/22/17
 Report Date: 06/16/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CDRL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.100 | 0.097 | 0.139 | 0.050 | NP | U,Q | pCi/L | ARS-010/EPA 903.0/904.0 | 06/14/17 7:44 | SCAUSEY | 109% |
| Ra-228 | 0.819 | 0.770 | 1.243 | 0.577 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/07/17 12:30 | SCAUSEY | 94% |

Project Manager Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

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 1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01440

Request or PO Number: N/A

Client Sample ID: S171371643 (BATCH 55476)

ARS Sample ID: ARS1-17-01440-006

Sample Collection Date: 05/17/17

Date Received: 05/22/17

Sample Matrix: Aqueous

Report Date: 06/16/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CDRL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.474 | 0.185 | 0.149 | 0.056 | NP | Q | pCi/L | ARS-010/EPA 903.0/904.0 | 06/14/17 7:44 | SCAUSEY | 102% |
| Ra-228 | 0.148 | 0.668 | 1.184 | 0.548 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/07/17 12:30 | SCAUSEY | 87% |

Project Manager Review

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LELAP Certificate# 01949



**INTERNATIONAL
QC Results Report**

2609 North River Road, Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

Sample Delivery Group: ARS1-17-01347;1440

Laboratory Control Sample Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | LCS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|----------------------|
| ARS1-B17-01040 | LCS | RA-226 | 30.504 | 4.906 | 0.092 | 30.667 | N/A | pCi/L | ARS-010/EPA 903 | 6/6/17 9:35 | SC | 99 | 75%-125% |
| ARS1-B17-01040 | LCS | RA-228 | 39.143 | 6.485 | 1.035 | 39.784 | N/A | pCi/L | ARS-010/EPA 904 | 5/30/17 14:45 | SC | 98 | 75%-125% |

Blank Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|
| ARS1-B17-01040 | MBL | RA-226 | 0.013 | 0.041 | 0.080 | NA | U | pCi/L | ARS-010/EPA 903 | 6/6/17 9:35 | SC |
| ARS1-B17-01040 | MBL | RA-228 | -0.143 | 0.316 | 0.589 | NA | U | pCi/L | ARS-010/EPA 904 | 5/30/17 14:45 | SC |

RER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | RER | RER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01040 | LCSD | RA-226 | 30.504 | 4.906 | 29.843 | 4.808 | N/A | pCi/L | ARS-010/EPA 903 | 6/6/17 9:35 | SC | 0.07 | < 1 |
| ARS1-B17-01040 | LCSD | RA-228 | 39.143 | 6.485 | 38.135 | 6.316 | N/A | pCi/L | ARS-010/EPA 904 | 5/30/17 14:45 | SC | 0.08 | < 1 |

DER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | DER | DER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01040 | LCSD | RA-226 | 30.504 | 4.906 | 29.843 | 4.808 | N/A | pCi/L | ARS-010/EPA 903 | 6/6/17 9:35 | SC | 0.10 | < 3 |
| ARS1-B17-01040 | LCSD | RA-228 | 39.143 | 6.485 | 38.135 | 6.316 | N/A | pCi/L | ARS-010/EPA 904 | 5/30/17 14:45 | SC | 0.11 | < 3 |

Matrix Spike

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | MS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|---------------------|
| ARS1-B17-01040 | MS | Ra-226 | 53.461 | 8.618 | 0.151 | 55.313 | N/A | pCi/L | ARS-010/EPA 903 | 6/6/17 9:35 | SC | 97 | 60%-140% |
| ARS1-B17-01040 | MS | Ra-228 | 38.798 | 6.505 | 1.053 | 52.653 | N/A | pCi/L | ARS-010/EPA 904 | 5/30/17 14:45 | SC | 74 | 60%-140% |
| ARS1-B17-01040 | MSD | Ra-226 | 55.386 | 8.917 | 0.151 | 55.240 | N/A | pCi/L | ARS-010/EPA 903 | 6/6/17 9:35 | SC | 100 | 60%-140% |
| ARS1-B17-01040 | MSD | Ra-228 | 44.076 | 7.343 | 1.350 | 52.498 | N/A | pCi/L | ARS-010/EPA 904 | 5/30/17 14:45 | SC | 84 | 60%-140% |

Project Manager Review

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LELAP Certificate# 01949

NELAP Certificate # E87558



**INTERNATIONAL
QC Results Report**

2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

Sample Delivery Group: ARS1-17-01440;1447

Laboratory Control Sample Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | LCS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|----------------------|
| ARS1-B17-01065 | LCSD | RA-226 | 30.548 | 4.919 | 0.098 | 27.562 | N/A | pCi/L | ARS-010/EPA 903 | 6/14/17 9:43 | SC | 111 | 75%-125% |
| ARS1-B17-01065 | LCS | RA-228 | 34.618 | 5.816 | 1.169 | 39.784 | N/A | pCi/L | ARS-010/EPA 904 | 6/7/17 14:30 | SC | 87 | 75%-125% |

Blank Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|
| ARS1-B17-01065 | MBL | RA-226 | 0.194 | 0.095 | 0.096 | NA | | pCi/L | ARS-010/EPA 903 | 6/14/17 9:43 | SC |
| ARS1-B17-01065 | MBL | RA-228 | -0.002 | 0.394 | 0.709 | NA | U | pCi/L | ARS-010/EPA 904 | 6/7/17 14:30 | SC |

RER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | RER | RER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01065 | LCS | RA-226 | 30.548 | 4.919 | 36.562 | 5.864 | N/A | pCi/L | ARS-010/EPA 903 | 6/14/17 9:43 | SC | 0.56 | < 1 |
| ARS1-B17-01065 | LCSD | RA-228 | 34.618 | 5.816 | 26.300 | 4.492 | N/A | pCi/L | ARS-010/EPA 904 | 6/7/17 14:30 | SC | 0.81 | < 1 |

DER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | DER | DER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01065 | LCS | RA-226 | 30.548 | 4.919 | 36.562 | 5.864 | N/A | pCi/L | ARS-010/EPA 903 | 6/14/17 9:43 | SC | 0.79 | < 3 |
| ARS1-B17-01065 | LCSD | RA-228 | 34.618 | 5.816 | 26.300 | 4.492 | N/A | pCi/L | ARS-010/EPA 904 | 6/7/17 14:30 | SC | 1.13 | < 3 |

Matrix Spike

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | MS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|---------------------|
| ARS1-B17-01065 | MS | Ra-226 | 72.089 | 11.565 | 0.139 | 56.066 | N/A | pCi/L | ARS-010/EPA 903 | 6/14/17 9:43 | SC | 129 | 60%-140% |
| ARS1-B17-01065 | MS | Ra-228 | 40.905 | 6.890 | 1.560 | 52.566 | N/A | pCi/L | ARS-010/EPA 904 | 6/7/17 14:30 | SC | 78 | 60%-140% |
| ARS1-B17-01065 | MSD | Ra-226 | 59.961 | 9.641 | 0.154 | 55.743 | N/A | pCi/L | ARS-010/EPA 903 | 6/14/17 9:43 | SC | 108 | 60%-140% |
| ARS1-B17-01065 | MSD | Ra-228 | 39.907 | 6.747 | 1.590 | 52.514 | N/A | pCi/L | ARS-010/EPA 904 | 6/7/17 14:30 | SC | 76 | 60%-140% |

QC

Project Manager Review

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LELAP Certificate# 01949

NELAP Certificate # E87558



2609 North River Road • Port Allen, Louisiana 70767

1 (800) 401-4277 • Fax (225) 381-2996

Notes (Case Narrative):

Comments:

- 1.0) All MDA/MDC values are calculated on a sample specific basis.
- 2.0) Soil and Sludge analysis are reported on a wet basis or an as received basis unless otherwise indicated.
- 3.0) Data in this report are within the limits of uncertainty specified in the reference method unless otherwise specified.
- 4.0) Modified analysis procedures are procedures that are modified to meet the certain specifications. An example may be the use of a water method to analyze a solid matrix due to the lack of an officially recognized procedure for the analysis of the solid matrix. Modified analyses are indicated by the subsequent addition of "m" to the procedure number (i.e. 900.0M).
- 5.0) Total activity is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring radioactive decay chains and other prominent radioactive nuclides. Total activity may be lower than the actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not representative of nuclides that emit solely alpha or beta particles.
- 6.0) Ra-228 is determined via secular equilibrium with its daughter, Actinium 228 (Gamma Spectroscopy only).
- 7.0) U-238 is determined via secular equilibrium with its daughter, Thorium 234 (Gamma Spectroscopy only).
- 8.0) All gamma spectroscopy was performed utilizing high purity germanium detectors (HPGe).
- 9.0) ARS makes every attempt to match sample density to calibrated density; however, in some cases, it is not practical or possible to do so and data results may be affected (Gamma Spectroscopy only).
- 10.0) Gamma spectroscopy results are calculated values based on the ORTEC[®] GammaVision ENV32 Analysis Engine.
- 11.0) ACLASS DOD and ISO 17025 certification applies only to the following analytes and methods: Gross Alpha and Gross Beta (EPA 900, SM7110B&C, SW846 9310); Radium 226 (EPA 903, EPA 903.1, SM 7500 Ra-B, SW846 9315); Radium 228 (EPA 904, SM 7500 Ra-B SW846 9320); Iodine-131(EPA 901.1); Uranium by ICPMS (EPA 200.8); Strontium 89/90 (EPA 905, Eichrom SRW01, HASL 300 Sr-03-RC); Tritium (EPA 906, EPA 906M); Gamma Emitters (EPA 901.1, SM7120B, HASL 300 Ga-01-R); Americium-241, Curium 242/244, Plutonium 239/240 and 241, Thorium 228/230/232, Uranium 234/233 and 238 (Eichrom ACW03 VBS); Lead 210 (HASL 300 Pb-01-RC, Eichrom OTW01); Polonium 210 (HASL 300 Po-01-RC, HASL 300 Po-02-RC); Technetium-99 (Eichrom TCW02, Eichrom TCS01M).

Method References:

- 1.0) EPA 600/4-90-032; Prescribed Procedures for the Measurements of Radioactivity in Drinking Water, August 1980.
- 2.0) Standard Methods for the Examination of Water and Wastewater (On-Line Edition)
- 3.0) EPA SW-846; Test Methods for Evaluating Solid Waste, (On-Line edition)
- 4.0) EPA 600/4/79-020; Methods for Chemical Analysis of Water and Waste, March 1983.
- 5.0) HASL 300; The Procedures Manual of the Environmental Measurements Laboratory, Volume I, 28th Edition February, 1997.

Definitions:

| | |
|----------|---|
| CRDL | Contract Required Detection Limit |
| CSU | Combined Standard Uncertainty |
| DLC | Decision Level Concentration (ANSI N42.23) or critical level |
| DO | Duplicate Original |
| DUP | Method Duplicate |
| LCS/LCSD | Laboratory Control Sample/Laboratory Control Sample Duplicate |
| MDA | Minimum Detectable Activity |
| MDC | (Minimum Detectable Concentration) minimum concentration of the analyte that ARS can detect utilizing the specific analysis |
| MBL | Method Blank |
| MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| N/A | Not Applicable |
| NP | Not Provided |
| NR | Not Referenced |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |

Data Qualifiers:

| | |
|----|--|
| B | The analyte is found in both the associated method blank and the sample. This flag indicates probable blank contamination. |
| D | Sample analysis accomplished through dilution. |
| J | The reported result is an estimated value above the limit of detection but outside of quantitation range (e.g., matrix interference was observed). |
| Q | One or more quality control criteria failed (e.g., LCS recovery, surrogate spike recovery, or CCV recovery). |
| U | Activity is below the MDC, MDA, MDL, or LOD |
| N | The analyte is a tentatively identified compound using mass spectrometry or any non-customer requested compounds that are tentatively identified. |
| * | LCS/LCSD or MS/MSD fails RPD criteria. |
| S | Spike |
| SC | Subcontracted out to another qualified laboratory |
| H | Holding time exceeded |

LELAP Cert# 01949

NELAP Cert# E87558

ARS-059-010

Revision: 9.1

Revision Date: 03-14-2017



Chain of Custody Record

Batch # 55476

TEMP UN-C: 3.1
Page 1 of 2

Customer / Report Information
 Name: COLETO CREEK POWER
 Attention: RICK COLEMAN
 Address: _____
 Billing Information: Check box if Billing is the same as Report Information
 Address: _____
 Attention: _____
 Project: _____
 Comments: DKR SAMPLING
 PO#: _____
 Phone: 361 7885145
 EMAIL: Richard.Coleman@duyeny.com
 Requested Analysis: _____
 Completed By: _____

| Client / Field Sample ID | Collected | | Matrix | Container TYPE NUMBER SIZE | Preservative | Custody Seals Present Yes <input type="checkbox"/> No <input type="checkbox"/> Intact <input type="checkbox"/> No <input type="checkbox"/> LAB Sample Number |
|--------------------------|-----------|------|--------|----------------------------|---|---|
| | Date | Time | | | | |
| MW-10 | 5-16-17 | 1528 | G W | P 6 50 | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | S171371636 |
| MW-10 A | 5-16-17 | 1538 | | | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | S171371639 |
| MW-9 | 5-17-17 | 822 | | | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | S171371640 |
| MW-9 A | 5-17-17 | 910 | | | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | S171371641 |
| MW-9 | 5-17-17 | 822 | | | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | |
| MW-9 | 5-17-17 | 822 | | | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | |

1606 E Brazos Suite D, Victoria, Texas 77901 Ph. (361) 572-8224 Fax (361) 572-4115 Toll Free 1-800-460-8223 Form #1000-0-2-REV.1.2 Email: kbenviro@suddenlinkmail.com www.benviro.com
 Fluoride, D, 25mg/L; Metals: B, Ca, Sr, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mg, Se, Tl, Mn, K, Ni, Zn, Hg



Chain of Custody Record

Batch # 55476

TEMP UN-C: 3.1
Page 2 of 2

Customer / Report Information
 Name: COLEMAN RIVER
 Attention: PIKE COLEMAN
 Address: _____
 Project: _____
 Comments: COR CAMPING

Billing Information
 Address: _____
 Attention: _____
 PO#: _____
 Check box if Billing is the same as Report Information

Phone: 361-788-5145 FAX: _____
 EMAIL: RUNARD.COLEMAN@ENV671.COM
 Requested Analysis: Metals, CHL, SO4, PH, TDS, RA 226, RA 228, AHK: TOT CAMP, Bi Camp, Disliq MO
 Completed By: _____

Therm ID # 3 TEMP Corr: 2.9

| Sample Information | Collected By: | Collected Date | Time | Matrix | Container TYPE | NUMBER | SIZE | Preservative | Custody Seals Present | Intact | LAB Sample Number |
|--------------------|---------------|----------------|------|--|----------------|--------|------|--|---|---|-------------------|
| | | | | | | | | | | | |
| | | | | DW - Drinking H2O S - Solid WW - Waste H2O SL - Sludge L - Liquid W - Water | | | | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE <input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| | BV-21 | 5-17-17 | 1308 | G W | P | 16 | 20 | <input checked="" type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE <input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | S171371642 |
| | BV-22 | 5-17-17 | 1346 | | | | | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE <input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | S171371643 |

Required Turnaround: Routine (6-10 Business Days) Expedite / Rush: 1 Business Day 2 Business Days 3 Business Days 5 Business Days Other _____

Surcharge will apply to RUSH/TAT Authorized By: _____

Container Type: P=Plastic, G=Glass, V=VOA, O=Other _____

REMARKS: _____

Relinquished By: _____ Date: _____ Time: _____

Relinquished By: _____ Date: _____ Time: _____

Relinquished By: _____ Date: _____ Time: _____

1606 E Brazos Suite D, Victoria, Texas 77901 Ph. (361) 572-8224 Fax (361) 572-4115 Toll Free 1-800-460-8223 Form #1000-0-2-REV 1.2 Email: kbenfro@suddenlinkmail.com www.Denviro.com

FINOMWL: 0.25 mg/L; METALS: B, CA, S, AS, BA, BE, CA, CR, CO, PB, LI, MO, SE, TI, MN, K, NI, & HY

BatchNo: 55338

SAMPLE REPORT



T104704328-17-14

Business

Coletto Creek Power - R Coleman
PO Box 8
Fannin TX 77960
Att: Rick Coleman



Laboratory

B Environmental, LLC.
1606 E Brazos, Suite D
Victoria TX 77901
ph. 361-572-8224

Reference Information

Project: CCR Sampling
Printed: Friday, June 23,
2017

Re: Coletto Creek Power - R Coleman

Dear: Rick Coleman

Attached are the results for sample(s) received on 5/15/2017

The analytical results relate only to the samples tested.
All supporting quality data meets the requirements of NELAC unless noted in the case narrative section of the report.

This report contains 7 pages (including the cover page)

If you have any questions concerning this report, please do not hesitate to call (361) 572-8224 or Fax us at (361) 572-4115

Respectfully Submitted,

Kevin Baros
Laboratory Director



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B Environmental, LLC.
1606 E Brazos, Suite D
Victoria TX 77901

BatchNo: 55338

Batch No:

Sample Receipt Checklist

Date Received:

Project Received By:

Login completed by:

Carrier Name

- YES NO Not Present
- YES NO Not Present
- YES NO Not Present
- YES NO
- YES NO
- YES NO
- YES NO
- YES NO
- YES NO
- YES NO
- YES NO >0 <6 °C On Ice
- YES NO No VOA Vials submitted
- YES NO Not Applicable

*TEMP pH Adjusted? Checked By

Any No and/or N/A (not applicable) response must be detailed in the comments section below.

Client contacted PersonContacted
Contacted by: Date Contacted:

Regarding

Comments
Therm. #3.

Corrective Action



B Environmental, LLC. 1606 E Brazos, Suite D Victoria TX 77901

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2609 North River Road, Port Allen, Louisiana 70767
(800) 401-4277 -- FAX (225) 381-2996



ARS International, LLC

Laboratory Analysis Report

ARS1-17-01444

Prepared for:

B-Environmental

**Kevin Baros
1606 East Brazos Street
Suite D
Victoria, TX 77901**

**dbenviro@suddenlinkmail.com; cbenviro@suddenlinkmail.com
swbenviro@suddenlinkmail.com**

**Phone: 361-572-8224
Fax: 361-572-4115**

Project Manager Review

Management Review

Notes: ARS International, LLC assumes no liability for the use or the interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

Contact Person: Questions regarding this analytical report should be addressed to:

**Project Manager
ProjectManagers@amrad.com**

**Phone: 225.381.2991
Fax: 225.381.2996**



LELAP Cert# 01949



2609 North River Road, Port Allen, Louisiana 70767
 1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01444

Request or PO Number: N/A

Client Sample ID: S171361004 (BATCH 55338)

ARS Sample ID: ARS1-17-01444-001

Sample Collection Date: 05/15/17

Date Received: 05/23/17

Sample Matrix: Aqueous

Report Date: 06/19/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CDRL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.183 | 0.121 | 0.148 | 0.056 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 06/16/17 9:29 | SCAUSEY | 103% |
| Ra-228 | 0.563 | 0.640 | 1.056 | 0.489 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/09/17 12:32 | SCAUSEY | 97% |

le

Project Manager Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

LELAP Certificate# 01949



INTERNATIONAL
QC Results Report

2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

Sample Delivery Group: ARS1-17-01444

Laboratory Control Sample Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | LCS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|----------------------|
| ARS1-B17-01106 | LCS | RA-226 | 27.814 | 4.480 | 0.098 | 27.723 | N/A | pCi/L | ARS-010/EPA 903 | 6/16/17 11:29 | SC | 100 | 75%-125% |
| ARS1-B17-01106 | LCS | RA-228 | 32.901 | 5.513 | 1.063 | 39.784 | N/A | pCi/L | ARS-010/EPA 904 | 6/9/17 14:31 | SC | 83 | 75%-125% |

Blank Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|
| ARS1-B17-01106 | MBL | RA-226 | 0.082 | 0.065 | 0.089 | NA | U | pCi/L | ARS-010/EPA 903 | 6/16/17 11:29 | SC |
| ARS1-B17-01106 | MBL | RA-228 | -0.087 | 0.371 | 0.681 | NA | U | pCi/L | ARS-010/EPA 904 | 6/9/17 14:31 | SC |

RER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | RER | RER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01106 | LCSD | RA-226 | 27.814 | 4.480 | 35.081 | 5.636 | N/A | pCi/L | ARS-010/EPA 903 | 6/16/17 11:29 | SC | 0.72 | < 1 |
| ARS1-B17-01106 | LCSD | RA-228 | 32.901 | 5.513 | 34.717 | 5.792 | N/A | pCi/L | ARS-010/EPA 904 | 6/9/17 14:31 | SC | 0.16 | < 1 |

DER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | DER | DER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01106 | LCSD | RA-226 | 27.814 | 4.480 | 35.081 | 5.636 | N/A | pCi/L | ARS-010/EPA 903 | 6/16/17 11:29 | SC | 1.01 | < 3 |
| ARS1-B17-01106 | LCSD | RA-228 | 32.901 | 5.513 | 34.717 | 5.792 | N/A | pCi/L | ARS-010/EPA 904 | 6/9/17 14:31 | SC | 0.23 | < 3 |

Project Manager Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of ARS International.

LELAP Certificate# 01949

NELAP Certificate # E87558



2809 North River Road • Port Allen, Louisiana 70767

1 (800) 401-4277 • Fax (225) 381-2996

Notes (Case Narrative):

Comments:

- 1.0) All MDA/MDC values are calculated on a sample specific basis.
- 2.0) Soil and Sludge analysis are reported on a wet basis or an as received basis unless otherwise indicated.
- 3.0) Data in this report are within the limits of uncertainty specified in the reference method unless otherwise specified.
- 4.0) Modified analysis procedures are procedures that are modified to meet the certain specifications. An example may be the use of a water method to analyze a solid matrix due to the lack of an officially recognized procedure for the analysis of the solid matrix. Modified analyses are indicated by the subsequent addition of "m" to the procedure number (i.e. 900.0M).
- 5.0) Total activity is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring radioactive decay chains and other prominent radioactive nuclides. Total activity may be lower than the actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not representative of nuclides that emit solely alpha or beta particles.
- 6.0) Ra-228 is determined via secular equilibrium with its daughter, Actinium 228 (Gamma Spectroscopy only).
- 7.0) U-238 is determined via secular equilibrium with its daughter, Thorium 234 (Gamma Spectroscopy only).
- 8.0) All gamma spectroscopy was performed utilizing high purity germanium detectors (HPGe).
- 9.0) ARS makes every attempt to match sample density to calibrated density; however, in some cases, it is not practical or possible to do so and data results may be affected (Gamma Spectroscopy only).
- 10.0) Gamma spectroscopy results are calculated values based on the ORTEC® GammaVision ENV32 Analysis Engine.
- 11.0) ACLASS DOD and ISO 17025 certification applies only to the following analytes and methods: Gross Alpha and Gross Beta (EPA 900, SM7110B&C, SW846 9310); Radium 226 (EPA 903, EPA 903.1, SM 7500 Ra-B, SW846 9315); Radium 228 (EPA 904, SM 7500 Ra-B SW846 9320); Iodine-131(EPA 901.1); Uranium by ICPMS (EPA 200.8); Strontium 89/90 (EPA 905, Eichrom SRW01, HASL 300 Sr-03-RC); Tritium (EPA 906, EPA 906M); Gamma Emitters (EPA 901.1, SM7120B, HASL 300 Ga-01-R); Americium-241, Curium 242/244, Plutonium 239/240 and 241, Thorium 228/230/232, Uranium 234/233 and 238 (Eichrom ACW03 VBS); Lead 210 (HASL 300 Pb-01-RC, Eichrom OTW01); Polonium 210 (HASL 300 Po-01-RC, HASL 300 Po-02-RC); Technetium-99 (Eichrom TCW02, Eichrom TCS01M).

Method References:

- 1.0) EPA 600/4-90-032; Prescribed Procedures for the Measurements of Radioactivity in Drinking Water, August 1980.
- 2.0) Standard Methods for the Examination of Water and Wastewater (On-Line Edition)
- 3.0) EPA SW-846; Test Methods for Evaluating Solid Waste, (On-Line edition)
- 4.0) EPA 600/4/79-020; Methods for Chemical Analysis of Water and Waste, March 1983.
- 5.0) HASL 300; The Procedures Manual of the Environmental Measurements Laboratory, Volume I, 28th Edition February, 1997.

Definitions:

| | |
|----------|---|
| CRDL | Contract Required Detection Limit |
| CSU | Combined Standard Uncertainty |
| DLC | Decision Level Concentration (ANSI N42.23) or critical level |
| DO | Duplicate Original |
| DUP | Method Duplicate |
| LCS/LCSD | Laboratory Control Sample/Laboratory Control Sample Duplicate |
| MDA | Minimum Detectable Activity |
| MDC | (Minimum Detectable Concentration) minimum concentration of the analyte that ARS can detect utilizing the specific analysis |
| MBL | Method Blank |
| MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| N/A | Not Applicable |
| NP | Not Provided |
| NR | Not Referenced |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |

Data Qualifiers:

| | |
|----|--|
| B | The analyte is found in both the associated method blank and the sample. This flag indicates probable blank contamination. |
| D | Sample analysis accomplished through dilution. |
| J | The reported result is an estimated value above the limit of detection but outside of quantitation range (e.g., matrix interference was observed). |
| Q | One or more quality control criteria failed (e.g., LCS recovery, surrogate spike recovery, or CCV recovery). |
| U | Activity is below the MDC, MDA, MDL, or LOD |
| N | The analyte is a tentatively identified compound using mass spectrometry or any non-customer requested compounds that are tentatively identified. |
| * | LCS/LCSD or MS/MSD fails RPD criteria. |
| S | Spike |
| SC | Subcontracted out to another qualified laboratory |
| H | Holding time exceeded |

LELAP Cert# 01949

NELAP Cert# E87558

ARS-059-010
Revision: 9.1
Revision Date: 03-14-2017



Chain of Custody Record

Batch # 55338

TEMP UN-C: 5.1 Page ___ of ___

Customer / Report Information
 Name: COLETO GREAT POWER
 Attention: RICK COLEMAN
 Address: [Redacted]
 Billing Information: [Check box] Check box if Billing is the same as Report Information
 Address: [Redacted]
 Attention: [Redacted]
 Project: [Redacted]
 Comments: [Redacted]
 PO#: [Redacted]
 Requested Analysis: [Redacted]
 Completed By: Laboratory
 Phone: 361-788-5445
 FAX: [Redacted]
 THERM ID# 3
 TEMP CORR: 4.9
 EMAIL: RICHARD.COLEMAN@CJMEQU.COM

| Sample Information | Client / Field Sample ID | Collected | | Matrix | Container | Preservative | Custody Seals Present |
|--------------------|--------------------------|-----------|------|--------|-----------|--|--|
| | | Date | Time | | | | |
| | BV-21 | 5-15-17 | 1028 | G W | P | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | Yes <input type="checkbox"/> Intact <input type="checkbox"/> No <input type="checkbox"/> |
| | | | | | | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE <input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | Yes <input type="checkbox"/> Intact <input type="checkbox"/> No <input type="checkbox"/> |

Required Turnaround: Routine (6-10 Business Days) Expedite / Rush: 1 Business Day 2 Business Days 3 Business Days 5 Business Days Other

Surcharge will apply to RUSH TAT Authorized By: [Signature]

Relinquished By: [Signature] Date: 5-15-17 Time: 1615

Relinquished By: [Signature] Date: [Redacted] Time: [Redacted]

Relinquished By: [Signature] Date: [Redacted] Time: [Redacted]

1606 E Brazos Suite D - Victoria, Texas 77961
 Phone: (361) 572-8224 Fax: (361) 572-4115 Toll Free: 1-800-460-8223 Form #1000-0-2-REV 1.2 Email: kbenviro@suddenlinkmail.com www.benvironmental.net

BatchNo: 55518

SAMPLE REPORT



T104704328-17-14

Business

Coletto Creek Power - R Coleman
PO Box 8
Fannin TX 77960
Att: Rick Coleman



Laboratory

B Environmental, LLC.
1606 E Brazos, Suite D
Victoria TX 77901
ph. 361-572-8224

Reference Information

Project: CCR Sample
Printed: Friday, June 23,
2017

Re: Coletto Creek Power - R Coleman

Dear: Rick Coleman

Attached are the results for sample(s) received on 5/18/2017

The analytical results relate only to the samples tested.
All supporting quality data meets the requirements of NELAC unless noted in the case narrative section of the report.

This report contains 22 pages (including the cover page)

If you have any questions concerning this report, please do not hesitate to call (361) 572-8224 or Fax us at (361) 572-4115

Respectfully Submitted,

Kevin Baros
Laboratory Director



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B Environmental, LLC.
1606 E Brazos, Suite D

BatchNo: 55518

Victoria TX 77901

Batch No:

Sample Receipt Checklist

Date Received:

Project Received By:

Login completed by:

Carrier Name

- YES NO Not Present
- YES NO Not Present
- YES NO Not Present
- YES NO
- YES NO
- YES NO
- YES NO
- YES NO
- YES NO
- YES NO
- YES NO >0 <6 °C On Ice
- YES NO No VOA Vials submitted
- YES NO Not Applicable

*TEMP pH Adjusted? Checked By

Any No and/or N/A (not applicable) response must be detailed in the comments section below.

Client contacted PersonContacted
Contacted by: Date Contacted:

Regarding

Comments

Corrective Action



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 1606 E Brazos, Suite D
 Victoria TX 77901

BatchNo: 55518

Sample Report Information



| | | | | | |
|-------------------|-------------------|-------------------|------------------------------|-----------------|---------------|
| Sample ID: | S171381625 | Client ID: | MW-11 Catch Up Sample | Sampler: | Client |
|-------------------|-------------------|-------------------|------------------------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman
 Study: Water
 Project: CCR Sample
 Location: MW #11
 Notes:

Batch No: 55518
 Sampled: 5/18/2017 1:48 PM
 Type: Grab
 Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 47.8 | mg/L | EPA 300 | K Baros | 5/22/2017 14:08 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 148 | mg/L | SM 2320 B | | 5/24/2017 12:40 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 5/24/2017 12:40 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 148 | mg/L | SM 2320 B | | 5/24/2017 12:40 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.94 | mg/L | EPA 300 | K Baros | 5/22/2017 14:08 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.29 | SU | SM 4500-H+B | C Watts | 5/18/2017 16:50 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 390 | mg/L | SM2540C | C Watts | 5/24/2017 17:45 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 5/22/2017 15:56 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 52.4 | mg/L | EPA 300 | K Baros | 5/22/2017 14:08 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 6/16/2017 9:29 | | | | | | <input checked="" type="checkbox"/> ARS International |



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B Environmental, LLC.
1606 E Brazos, Suite D

BatchNo: 55518

Victoria TX 77901



QA Summary Report

| Parameter | ID | Result | Ref Value | Amt Added | LOQ | Qualifier | Control | Flag | Comments |
|------------------------------------|------------|-----------|-----------|-----------|------|-----------|---------|----------|-------------------------------|
| Method Blank | | | | | | | | | |
| - Chloride, IC | Q171451223 | <1mg/L | 0 | | | | 1 | | Blank Acceptable. |
| 5/22/2017 12:52 | | | | | | | | | |
| Fluoride, IC | Q171451223 | <0.25mg/L | 0 | | 0.25 | | 0.25 | | Blank Acceptable. |
| 5/22/2017 12:52 | | | | | | | | | |
| Nitrate-N, IC | Q171451223 | <0.06mg/L | 0 | | 0.06 | | 0.06 | | Blank Acceptable. |
| 5/22/2017 12:52 | | | | | | | | | |
| Nitrite-N, IC | Q171451223 | <0.08mg/L | 0 | | 0.08 | | 0.08 | | Blank Acceptable. |
| 5/22/2017 12:52 | | | | | | | | | |
| Solids, Total Dissolved | Q171511045 | <25mg/L | 0 | | 10 | | 25 | | Blank Acceptable. |
| 5/24/2017 17:45 | | | | | | | | | |
| Sulfate, IC | Q171451223 | <1mg/L | 0 | | | | 1 | | Blank Acceptable. |
| 5/22/2017 12:52 | | | | | | | | | |
| Duplicate | | | | | | | | | |
| pH (Standard Units) | Q17139095A | 7.32SU | 7.29 | | | 2 | 0.4% | 20 | Duplicate RPD Acceptable. |
| 5/18/2017 16:50 | | | | | | | | | |
| Solids, Total Dissolved | Q171511047 | 408mg/L | 410 | | | 10 | 0.5% | 20 | Duplicate RPD Acceptable. |
| 5/24/2017 17:45 | | | | | | | | | |
| Laboratory Control Standard | | | | | | | | | |
| - Chloride, IC | Q171451224 | 25.4mg/L | 25 | | | 1 | 101.6% | 80 - 120 | Standard Recovery Acceptable. |
| 5/22/2017 13:30 | | | | | | | 1.6% | 20 | Standard RPD Acceptable. |
| Fluoride, IC | Q171451224 | 2.04mg/L | 2 | | 0.25 | | 102.0% | 80 - 120 | Standard Recovery Acceptable. |
| 5/22/2017 13:30 | | | | | | | 2.0% | 20 | Standard RPD Acceptable. |
| Nitrate-N, IC | Q171451224 | 0.45mg/L | 0.45 | | 0.06 | | 100.0% | 80 - 120 | Standard Recovery Acceptable. |
| 5/22/2017 13:30 | | | | | | | 0.0% | 25 | Standard RPD Acceptable. |
| Nitrite-N, IC | Q171451224 | 0.62mg/L | 0.61 | | 0.08 | | 101.6% | 80 - 120 | Standard Recovery Acceptable. |
| 5/22/2017 13:30 | | | | | | | 1.6% | 25 | Standard RPD Acceptable. |
| pH (Standard Units) | Q171390952 | 7.01SU | 7 | | | 2 | 100.1% | 80 - 120 | Standard Recovery Acceptable. |
| 5/18/2017 16:50 | | | | | | | 0.1% | 20 | Standard RPD Acceptable. |
| Sulfate, IC | Q171451224 | 25.8mg/L | 25 | | | 1 | 103.2% | 80 - 120 | Standard Recovery Acceptable. |
| 5/22/2017 13:30 | | | | | | | 3.1% | 20 | Standard RPD Acceptable. |
| Matrix Spike | | | | | | | | | |
| - Chloride, IC | Q171451225 | 404mg/L | 409 | 125 | | 1 | 96.0% | 80 - 120 | Spike Recovery Acceptable. |
| 5/22/2017 15:24 | | | | | | | 1.2% | 20 | Spike RPD Acceptable. |
| Fluoride, IC | Q171451225 | 9.59mg/L | 10.34 | 10 | 0.25 | | 92.5% | 80 - 120 | Spike Recovery Acceptable. |
| 5/22/2017 15:24 | | | | | | | 7.5% | 20 | Spike RPD Acceptable. |
| Nitrate-N, IC | Q171451225 | 2.15mg/L | 2.25 | 2.25 | 0.06 | | 95.6% | 80 - 120 | Spike Recovery Acceptable. |
| 5/22/2017 15:24 | | | | | | | 4.5% | 20 | Spike RPD Acceptable. |
| Nitrite-N, IC | Q171451225 | 2.92mg/L | 3.05 | 3.05 | 0.08 | | 95.7% | 80 - 120 | Spike Recovery Acceptable. |
| 5/22/2017 15:24 | | | | | | | 4.4% | 20 | Spike RPD Acceptable. |
| Sulfate, IC | Q171451225 | 153mg/L | 155 | 125 | | 1 | 98.4% | 70 - 130 | Spike Recovery Acceptable. |
| 5/22/2017 15:24 | | | | | | | 1.3% | 20 | Spike RPD Acceptable. |



B Environmental, LLC.

1606 E Brazos, Suite D

Victoria TX 77901

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B Environmental, LLC.
1606 E Brazos, Suite D

BatchNo: 55518

Victoria TX 77901

| Parameter | ID | Result | Ref Value | Amt Added | LOQ | Qualifier | Control | Flag | Comments |
|-------------------------|------------|----------|-----------|-----------|------|-----------|----------|------|----------------------------|
| Matrix Spike Dup | | | | | | | | | |
| - Chloride, IC | Q17145122A | 404mg/L | 409 | 125 | 1 | 96.0% | 80 - 120 | | Spike Recovery Acceptable. |
| 5/22/2017 16:02 | | | | | | 1.2% | 20 | | Spike RPD Acceptable. |
| Fluoride, IC | Q17145122A | 9.55mg/L | 10.34 | 10 | 0.25 | 92.1% | 80 - 120 | | Spike Recovery Acceptable. |
| 5/22/2017 16:02 | | | | | | 7.9% | 20 | | Spike RPD Acceptable. |
| Nitrate-N, IC | Q17145122A | 2.14mg/L | 2.25 | 2.25 | 0.06 | 95.1% | 80 - 120 | | Spike Recovery Acceptable. |
| 5/22/2017 16:02 | | | | | | 5.0% | 20 | | Spike RPD Acceptable. |
| Nitrite-N, IC | Q17145122A | 2.86mg/L | 3.05 | 3.05 | 0.08 | 93.8% | 80 - 120 | | Spike Recovery Acceptable. |
| 5/22/2017 16:02 | | | | | | 6.4% | 20 | | Spike RPD Acceptable. |
| Sulfate, IC | Q17145122A | 152mg/L | 155 | 125 | 1 | 97.6% | 70 - 130 | | Spike Recovery Acceptable. |
| 5/22/2017 16:02 | | | | | | 2.0% | 20 | | Spike RPD Acceptable. |

Flag and Qualifier Legend

| | | | |
|---|--|--|---|
|  | Negative - Result Detected | MDL = Method Detection Limit | DF = Dilution Factor |
|  | Caution - Problem Detected | LOQ = Limit of Quantitation | j = Analyte detected between MDL and LOQ |
|  | Warning - Null Value | S = surrogate standard out of limit | H = sample out of hold time |
|  | MS, MSD, RPD- Failure may occur due to matrix interference, data released per QA plan | | |

Friday, June 23, 2017

B Environmental - LDMS QA Report Summary

Note:

THANK YOU!



B Environmental, LLC.

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DHL Analytical, Inc.

Date: 25-May-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Lab Order: 1705216

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition and Standard Methods.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives except where noted in the following. For Total Metals Analysis, the recoveries of three analytes for the Matrix Spike and Matrix Spike Duplicate (1705217-03 MS/MSD) were outside of the method control limits. These are flagged accordingly in the QC Summary Report. These analytes were within method control limits in the associated LCS. No further corrective action was taken.

For Total Metals Analysis, the recovery of Antimony for the Post Digestion Spike (1705217-03 PDS) was below the method control limits. This is flagged accordingly in the QC Summary Report. This analyte was within method control limits in the associated Serial Dilution. No further corrective action was taken.

For Total/Dissolved Metals Analysis, the results of dissolved Lithium/Molybdenum for Sample MW 11 Catch Up Sample were slightly higher than the results of total Lithium/Molybdenum. The results were within acceptable analytical variation limits. No further corrective action was taken.

DHL Analytical, Inc.

Date: 25-May-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR (55518)
Lab Order: 1705216

Client Sample ID: MW 11 Catch Up Sample
Lab ID: 1705216-01
Alternate ID: S171381625
Collection Date: 05/18/17 01:48 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|---------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 0.0126 | 0.00500 | 0.0100 | | mg/L | 1 | 05/23/17 12:57 PM |
| Dissolved Molybdenum | 0.00849 | 0.00200 | 0.00500 | | mg/L | 1 | 05/23/17 12:57 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 05/22/17 03:56 PM |
| Arsenic | 0.0188 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 03:56 PM |
| Barium | 0.0779 | 0.00300 | 0.0100 | | mg/L | 1 | 05/22/17 03:56 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/22/17 03:56 PM |
| Boron | 1.27 | 0.100 | 0.300 | | mg/L | 10 | 05/23/17 11:38 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/22/17 03:56 PM |
| Calcium | 51.6 | 1.00 | 3.00 | | mg/L | 10 | 05/23/17 11:38 AM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 03:56 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 05/22/17 03:56 PM |
| Lead | 0.00204 | 0.000300 | 0.00100 | | mg/L | 1 | 05/22/17 03:56 PM |
| Lithium | 0.0122 | 0.00500 | 0.0100 | | mg/L | 1 | 05/22/17 03:56 PM |
| Magnesium | 4.33 | 0.100 | 0.300 | | mg/L | 1 | 05/22/17 03:56 PM |
| Molybdenum | 0.00781 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 03:56 PM |
| Potassium | 1.54 | 0.100 | 0.300 | | mg/L | 1 | 05/22/17 03:56 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 03:56 PM |
| Sodium | 65.3 | 1.00 | 3.00 | | mg/L | 10 | 05/23/17 11:38 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 05/22/17 03:56 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: RO | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 05/22/17 02:13 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 148 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 05/24/17 12:40 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 05/24/17 12:40 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 05/24/17 12:40 PM |
| Alkalinity, Total (As CaCO3) | 148 | 20.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 05/24/17 12:40 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 25-May-17

CLIENT: B-Environmental
 Work Order: 1705216
 Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_170522C

The QC data in batch 80558 applies to the following samples: 1705216-01A

| | | | | | | | |
|-----------|----------|-----------|------------------|----------------|----------------------|------------|-----------|
| Sample ID | MB-80558 | Batch ID: | 80558 | TestNo: | SW7470A | Units: | mg/L |
| SampType: | MBLK | Run ID: | CETAC2_HG_170522 | Analysis Date: | 5/22/2017 1:28:18 PM | Prep Date: | 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|------------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | <0.0000800 | 0.000200 | | | | | | | | |

| | | | | | | | |
|-----------|-----------|-----------|------------------|----------------|----------------------|------------|-----------|
| Sample ID | LCS-80558 | Batch ID: | 80558 | TestNo: | SW7470A | Units: | mg/L |
| SampType: | LCS | Run ID: | CETAC2_HG_170522 | Analysis Date: | 5/22/2017 1:30:34 PM | Prep Date: | 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00205 | 0.000200 | 0.00200 | 0 | 103 | 85 | 115 | | | |

| | | | | | | | |
|-----------|------------|-----------|------------------|----------------|----------------------|------------|-----------|
| Sample ID | LCSD-80558 | Batch ID: | 80558 | TestNo: | SW7470A | Units: | mg/L |
| SampType: | LCSD | Run ID: | CETAC2_HG_170522 | Analysis Date: | 5/22/2017 1:32:50 PM | Prep Date: | 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00205 | 0.000200 | 0.00200 | 0 | 103 | 85 | 115 | 0 | 15 | |

| | | | | | | | |
|-----------|----------------|-----------|------------------|----------------|----------------------|------------|-----------|
| Sample ID | 1705217-03A SD | Batch ID: | 80558 | TestNo: | SW7470A | Units: | mg/L |
| SampType: | SD | Run ID: | CETAC2_HG_170522 | Analysis Date: | 5/22/2017 1:37:23 PM | Prep Date: | 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|-----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | <0.000400 | 0.00100 | 0 | 0 | | | | 0 | 10 | |

| | | | | | | | |
|-----------|-----------------|-----------|------------------|----------------|----------------------|------------|-----------|
| Sample ID | 1705217-03A PDS | Batch ID: | 80558 | TestNo: | SW7470A | Units: | mg/L |
| SampType: | PDS | Run ID: | CETAC2_HG_170522 | Analysis Date: | 5/22/2017 1:39:38 PM | Prep Date: | 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00239 | 0.000200 | 0.00250 | 0 | 95.6 | 85 | 115 | | | |

| | | | | | | | |
|-----------|----------------|-----------|------------------|----------------|----------------------|------------|-----------|
| Sample ID | 1705217-03A MS | Batch ID: | 80558 | TestNo: | SW7470A | Units: | mg/L |
| SampType: | MS | Run ID: | CETAC2_HG_170522 | Analysis Date: | 5/22/2017 1:41:54 PM | Prep Date: | 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00207 | 0.000200 | 0.00200 | 0 | 104 | 80 | 120 | | | |

| | | | | | | | |
|-----------|-----------------|-----------|------------------|----------------|----------------------|------------|-----------|
| Sample ID | 1705217-03A MSD | Batch ID: | 80558 | TestNo: | SW7470A | Units: | mg/L |
| SampType: | MSD | Run ID: | CETAC2_HG_170522 | Analysis Date: | 5/22/2017 1:44:09 PM | Prep Date: | 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|-------|----------|------|
| Mercury | 0.00209 | 0.000200 | 0.00200 | 0 | 104 | 80 | 120 | 0.962 | 15 | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705216
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170522A

The QC data in batch 80552 applies to the following samples: 1705216-01A

| | | | |
|---------------------------|--------------------------------|--|-----------------------------|
| Sample ID MB-80552 | Batch ID: 80552 | TestNo: SW6020A | Units: mg/L |
| SampType: MBLK | Run ID: ICP-MS4_170522A | Analysis Date: 5/22/2017 3:30:00 PM | Prep Date: 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|-----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | <0.000800 | 0.00250 | | | | | | | | |
| Arsenic | <0.00200 | 0.00500 | | | | | | | | |
| Barium | <0.00300 | 0.0100 | | | | | | | | |
| Beryllium | <0.000300 | 0.00100 | | | | | | | | |
| Cadmium | <0.000300 | 0.00100 | | | | | | | | |
| Calcium | <0.100 | 0.300 | | | | | | | | |
| Chromium | <0.00200 | 0.00500 | | | | | | | | |
| Cobalt | <0.00300 | 0.00500 | | | | | | | | |
| Lead | <0.000300 | 0.00100 | | | | | | | | |
| Lithium | <0.00500 | 0.0100 | | | | | | | | |
| Magnesium | <0.100 | 0.300 | | | | | | | | |
| Molybdenum | <0.00200 | 0.00500 | | | | | | | | |
| Potassium | <0.100 | 0.300 | | | | | | | | |
| Selenium | <0.00200 | 0.00500 | | | | | | | | |
| Sodium | <0.100 | 0.300 | | | | | | | | |
| Thallium | <0.000500 | 0.00150 | | | | | | | | |

| | | | |
|----------------------------|--------------------------------|--|-----------------------------|
| Sample ID LCS-80552 | Batch ID: 80552 | TestNo: SW6020A | Units: mg/L |
| SampType: LCS | Run ID: ICP-MS4_170522A | Analysis Date: 5/22/2017 3:32:00 PM | Prep Date: 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.192 | 0.00250 | 0.200 | 0 | 95.9 | 80 | 120 | | | |
| Arsenic | 0.198 | 0.00500 | 0.200 | 0 | 99.2 | 80 | 120 | | | |
| Barium | 0.190 | 0.0100 | 0.200 | 0 | 95.0 | 80 | 120 | | | |
| Beryllium | 0.198 | 0.00100 | 0.200 | 0 | 99.1 | 80 | 120 | | | |
| Cadmium | 0.196 | 0.00100 | 0.200 | 0 | 97.8 | 80 | 120 | | | |
| Calcium | 4.97 | 0.300 | 5.00 | 0 | 99.3 | 80 | 120 | | | |
| Chromium | 0.200 | 0.00500 | 0.200 | 0 | 100 | 80 | 120 | | | |
| Cobalt | 0.201 | 0.00500 | 0.200 | 0 | 100 | 80 | 120 | | | |
| Lead | 0.195 | 0.00100 | 0.200 | 0 | 97.4 | 80 | 120 | | | |
| Lithium | 0.198 | 0.0100 | 0.200 | 0 | 99.1 | 80 | 120 | | | |
| Magnesium | 5.02 | 0.300 | 5.00 | 0 | 100 | 80 | 120 | | | |
| Molybdenum | 0.192 | 0.00500 | 0.200 | 0 | 95.9 | 80 | 120 | | | |
| Potassium | 5.04 | 0.300 | 5.00 | 0 | 101 | 80 | 120 | | | |
| Selenium | 0.198 | 0.00500 | 0.200 | 0 | 99.0 | 80 | 120 | | | |
| Sodium | 4.99 | 0.300 | 5.00 | 0 | 99.8 | 80 | 120 | | | |
| Thallium | 0.197 | 0.00150 | 0.200 | 0 | 98.3 | 80 | 120 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705216
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170522A

| | | | | | | | |
|-----------|------------|-----------|-----------------|----------------|----------------------|------------|-----------|
| Sample ID | LCSD-80552 | Batch ID: | 80552 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | LCSD | Run ID: | ICP-MS4_170522A | Analysis Date: | 5/22/2017 3:34:00 PM | Prep Date: | 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | 0.193 | 0.00250 | 0.200 | 0 | 96.6 | 80 | 120 | 0.707 | 15 | |
| Arsenic | 0.199 | 0.00500 | 0.200 | 0 | 99.4 | 80 | 120 | 0.265 | 15 | |
| Barium | 0.190 | 0.0100 | 0.200 | 0 | 95.0 | 80 | 120 | 0.006 | 15 | |
| Beryllium | 0.199 | 0.00100 | 0.200 | 0 | 99.5 | 80 | 120 | 0.475 | 15 | |
| Cadmium | 0.196 | 0.00100 | 0.200 | 0 | 98.2 | 80 | 120 | 0.424 | 15 | |
| Calcium | 4.99 | 0.300 | 5.00 | 0 | 99.8 | 80 | 120 | 0.452 | 15 | |
| Chromium | 0.203 | 0.00500 | 0.200 | 0 | 101 | 80 | 120 | 1.41 | 15 | |
| Cobalt | 0.202 | 0.00500 | 0.200 | 0 | 101 | 80 | 120 | 0.468 | 15 | |
| Lead | 0.196 | 0.00100 | 0.200 | 0 | 98.2 | 80 | 120 | 0.750 | 15 | |
| Lithium | 0.197 | 0.0100 | 0.200 | 0 | 98.4 | 80 | 120 | 0.696 | 15 | |
| Magnesium | 5.08 | 0.300 | 5.00 | 0 | 102 | 80 | 120 | 1.07 | 15 | |
| Molybdenum | 0.194 | 0.00500 | 0.200 | 0 | 96.8 | 80 | 120 | 0.894 | 15 | |
| Potassium | 5.11 | 0.300 | 5.00 | 0 | 102 | 80 | 120 | 1.41 | 15 | |
| Selenium | 0.198 | 0.00500 | 0.200 | 0 | 99.0 | 80 | 120 | 0.065 | 15 | |
| Sodium | 5.01 | 0.300 | 5.00 | 0 | 100 | 80 | 120 | 0.505 | 15 | |
| Thallium | 0.198 | 0.00150 | 0.200 | 0 | 98.9 | 80 | 120 | 0.574 | 15 | |

| | | | | | | | |
|-----------|----------------|-----------|-----------------|----------------|----------------------|------------|-----------|
| Sample ID | 1705217-03A SD | Batch ID: | 80552 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | SD | Run ID: | ICP-MS4_170522A | Analysis Date: | 5/22/2017 3:40:00 PM | Prep Date: | 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | <0.00400 | 0.0125 | 0 | 0 | | | | 0 | 10 | |
| Arsenic | <0.0100 | 0.0250 | 0 | 0.00958 | | | | 0 | 10 | |
| Barium | 0.0990 | 0.0500 | 0 | 0.101 | | | | 1.73 | 10 | |
| Beryllium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Cadmium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Chromium | <0.0100 | 0.0250 | 0 | 0.00345 | | | | 0 | 10 | |
| Cobalt | <0.0150 | 0.0250 | 0 | 0.00305 | | | | 0 | 10 | |
| Lead | 0.00384 | 0.00500 | 0 | 0.00377 | | | | 1.89 | 10 | |
| Lithium | <0.0250 | 0.0500 | 0 | 0.00590 | | | | 0 | 10 | |
| Magnesium | 7.15 | 1.50 | 0 | 7.00 | | | | 2.15 | 10 | |
| Molybdenum | 0.0910 | 0.0250 | 0 | 0.0900 | | | | 1.12 | 10 | |
| Potassium | 1.11 | 1.50 | 0 | 1.08 | | | | 2.39 | 10 | |
| Selenium | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Thallium | <0.00250 | 0.00750 | 0 | 0 | | | | 0 | 10 | |

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|
| Sample ID | 1705217-03A PDS | Batch ID: | 80552 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | PDS | Run ID: | ICP-MS4_170522A | Analysis Date: | 5/22/2017 4:00:00 PM | Prep Date: | 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.122 | 0.00250 | 0.200 | 0 | 60.8 | 80 | 120 | | | S |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705216
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170522A

| Sample ID | 1705217-03A PDS | Batch ID: | 80552 | TestNo: | SW6020A | Units: | mg/L | | | |
|------------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|------|----------|------|
| SampType: | PDS | Run ID: | ICP-MS4_170522A | Analysis Date: | 5/22/2017 4:00:00 PM | Prep Date: | 5/22/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Arsenic | 0.208 | 0.00500 | 0.200 | 0.00958 | 99.3 | 80 | 120 | | | |
| Barium | 0.285 | 0.0100 | 0.200 | 0.101 | 91.9 | 80 | 120 | | | |
| Beryllium | 0.189 | 0.00100 | 0.200 | 0 | 94.5 | 80 | 120 | | | |
| Cadmium | 0.191 | 0.00100 | 0.200 | 0 | 95.5 | 80 | 120 | | | |
| Chromium | 0.202 | 0.00500 | 0.200 | 0.00345 | 99.4 | 80 | 120 | | | |
| Cobalt | 0.196 | 0.00500 | 0.200 | 0.00305 | 96.6 | 80 | 120 | | | |
| Lead | 0.196 | 0.00100 | 0.200 | 0.00377 | 96.3 | 80 | 120 | | | |
| Lithium | 0.183 | 0.0100 | 0.200 | 0.00590 | 88.5 | 80 | 120 | | | |
| Magnesium | 11.1 | 0.300 | 5.00 | 7.00 | 82.1 | 80 | 120 | | | |
| Molybdenum | 0.274 | 0.00500 | 0.200 | 0.0899 | 91.8 | 80 | 120 | | | |
| Potassium | 5.81 | 0.300 | 5.00 | 1.08 | 94.5 | 80 | 120 | | | |
| Selenium | 0.189 | 0.00500 | 0.200 | 0 | 94.3 | 80 | 120 | | | |
| Thallium | 0.195 | 0.00150 | 0.200 | 0 | 97.3 | 80 | 120 | | | |

| Sample ID | 1705217-03A MS | Batch ID: | 80552 | TestNo: | SW6020A | Units: | mg/L | | | |
|------------|----------------|-----------|-----------------|----------------|----------------------|------------|-----------|------|----------|------|
| SampType: | MS | Run ID: | ICP-MS4_170522A | Analysis Date: | 5/22/2017 4:02:00 PM | Prep Date: | 5/22/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Antimony | 0.190 | 0.00250 | 0.200 | 0 | 95.2 | 80 | 120 | | | |
| Arsenic | 0.211 | 0.00500 | 0.200 | 0.00958 | 101 | 80 | 120 | | | |
| Barium | 0.280 | 0.0100 | 0.200 | 0.101 | 89.8 | 80 | 120 | | | |
| Beryllium | 0.191 | 0.00100 | 0.200 | 0 | 95.3 | 80 | 120 | | | |
| Cadmium | 0.191 | 0.00100 | 0.200 | 0 | 95.7 | 80 | 120 | | | |
| Chromium | 0.199 | 0.00500 | 0.200 | 0.00345 | 97.6 | 80 | 120 | | | |
| Cobalt | 0.199 | 0.00500 | 0.200 | 0.00305 | 97.9 | 80 | 120 | | | |
| Lead | 0.198 | 0.00100 | 0.200 | 0.00377 | 97.0 | 80 | 120 | | | |
| Lithium | 0.192 | 0.0100 | 0.200 | 0.00590 | 93.1 | 80 | 120 | | | |
| Magnesium | 11.4 | 0.300 | 5.00 | 7.00 | 88.9 | 80 | 120 | | | |
| Molybdenum | 0.280 | 0.00500 | 0.200 | 0.0899 | 95.1 | 80 | 120 | | | |
| Potassium | 5.91 | 0.300 | 5.00 | 1.08 | 96.5 | 80 | 120 | | | |
| Selenium | 0.194 | 0.00500 | 0.200 | 0 | 96.8 | 80 | 120 | | | |
| Thallium | 0.198 | 0.00150 | 0.200 | 0 | 98.8 | 80 | 120 | | | |

| Sample ID | 1705217-03A MSD | Batch ID: | 80552 | TestNo: | SW6020A | Units: | mg/L | | | |
|-----------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|------|----------|------|
| SampType: | MSD | Run ID: | ICP-MS4_170522A | Analysis Date: | 5/22/2017 4:04:00 PM | Prep Date: | 5/22/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Antimony | 0.187 | 0.00250 | 0.200 | 0 | 93.5 | 80 | 120 | 1.83 | 15 | |
| Arsenic | 0.205 | 0.00500 | 0.200 | 0.00958 | 97.9 | 80 | 120 | 2.64 | 15 | |
| Barium | 0.273 | 0.0100 | 0.200 | 0.101 | 86.3 | 80 | 120 | 2.50 | 15 | |
| Beryllium | 0.185 | 0.00100 | 0.200 | 0 | 92.5 | 80 | 120 | 2.97 | 15 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705216
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170522A

| | | | |
|-----------------------------------|--------------------------------|--|-----------------------------|
| Sample ID: 1705217-03A MSD | Batch ID: 80552 | TestNo: SW6020A | Units: mg/L |
| SampType: MSD | Run ID: ICP-MS4_170522A | Analysis Date: 5/22/2017 4:04:00 PM | Prep Date: 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Cadmium | 0.185 | 0.00100 | 0.200 | 0 | 92.5 | 80 | 120 | 3.37 | 15 | |
| Chromium | 0.194 | 0.00500 | 0.200 | 0.00345 | 95.2 | 80 | 120 | 2.41 | 15 | |
| Cobalt | 0.193 | 0.00500 | 0.200 | 0.00305 | 94.9 | 80 | 120 | 3.07 | 15 | |
| Lead | 0.192 | 0.00100 | 0.200 | 0.00377 | 93.9 | 80 | 120 | 3.14 | 15 | |
| Lithium | 0.185 | 0.0100 | 0.200 | 0.00590 | 89.5 | 80 | 120 | 3.89 | 15 | |
| Magnesium | 11.3 | 0.300 | 5.00 | 7.00 | 85.6 | 80 | 120 | 1.43 | 15 | |
| Molybdenum | 0.272 | 0.00500 | 0.200 | 0.0899 | 91.2 | 80 | 120 | 2.79 | 15 | |
| Potassium | 5.84 | 0.300 | 5.00 | 1.08 | 95.2 | 80 | 120 | 1.11 | 15 | |
| Selenium | 0.191 | 0.00500 | 0.200 | 0 | 95.3 | 80 | 120 | 1.54 | 15 | |
| Thallium | 0.195 | 0.00150 | 0.200 | 0 | 97.5 | 80 | 120 | 1.38 | 15 | |

| | | |
|--------------------|--|--|
| Qualifiers: | B Analyte detected in the associated Method Blank | DF Dilution Factor |
| | J Analyte detected between MDL and RL | MDL Method Detection Limit |
| | ND Not Detected at the Method Detection Limit | R RPD outside accepted control limits |
| | RL Reporting Limit | S Spike Recovery outside control limits |
| | J Analyte detected between SDL and RL | N Parameter not NELAC certified |

CLIENT: B-Environmental
Work Order: 1705216
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170523A

The QC data in batch 80552 applies to the following samples: 1705216-01A

| | | | | | | | |
|-----------|-----------------|-----------|------------------------|----------------|------------------------------|------------|------------------|
| Sample ID | MB-80552 | Batch ID: | 80552 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | MBLK | Run ID: | ICP-MS4_170523A | Analysis Date: | 5/23/2017 11:12:00 AM | Prep Date: | 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|--------|-----------|---------|------|----------|-----------|------|----------|------|
| Boron | <0.0100 | 0.0300 | | | | | | | | |

| | | | | | | | |
|-----------|------------------|-----------|------------------------|----------------|------------------------------|------------|------------------|
| Sample ID | LCS-80552 | Batch ID: | 80552 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | LCS | Run ID: | ICP-MS4_170523A | Analysis Date: | 5/23/2017 11:14:00 AM | Prep Date: | 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|--------|-----------|---------|------|----------|-----------|------|----------|------|
| Boron | 0.204 | 0.0300 | 0.200 | 0 | 102 | 80 | 120 | | | |

| | | | | | | | |
|-----------|-------------------|-----------|------------------------|----------------|------------------------------|------------|------------------|
| Sample ID | LCSD-80552 | Batch ID: | 80552 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | LCSD | Run ID: | ICP-MS4_170523A | Analysis Date: | 5/23/2017 11:16:00 AM | Prep Date: | 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|--------|-----------|---------|------|----------|-----------|-------|----------|------|
| Boron | 0.205 | 0.0300 | 0.200 | 0 | 103 | 80 | 120 | 0.702 | 15 | |

| | | | | | | | |
|-----------|-----------------------|-----------|------------------------|----------------|------------------------------|------------|------------------|
| Sample ID | 1705217-03A SD | Batch ID: | 80552 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | SD | Run ID: | ICP-MS4_170523A | Analysis Date: | 5/23/2017 11:22:00 AM | Prep Date: | 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Boron | 3.40 | 1.50 | 0 | 3.18 | | | | 6.88 | 10 | |
| Calcium | 52.2 | 15.0 | 0 | 53.3 | | | | 1.96 | 10 | |
| Sodium | 59.1 | 15.0 | 0 | 60.5 | | | | 2.30 | 10 | |

| | | | | | | | |
|-----------|------------------------|-----------|------------------------|----------------|------------------------------|------------|------------------|
| Sample ID | 1705217-03A PDS | Batch ID: | 80552 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | PDS | Run ID: | ICP-MS4_170523A | Analysis Date: | 5/23/2017 11:40:00 AM | Prep Date: | 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Boron | 5.30 | 0.300 | 2.00 | 3.18 | 106 | 80 | 120 | | | |
| Calcium | 104 | 3.00 | 50.0 | 53.3 | 102 | 80 | 120 | | | |
| Sodium | 115 | 3.00 | 50.0 | 60.5 | 109 | 80 | 120 | | | |

| | | | | | | | |
|-----------|-----------------------|-----------|------------------------|----------------|------------------------------|------------|------------------|
| Sample ID | 1705217-03A MS | Batch ID: | 80552 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | MS | Run ID: | ICP-MS4_170523A | Analysis Date: | 5/23/2017 11:42:00 AM | Prep Date: | 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Boron | 3.22 | 0.300 | 0.200 | 3.18 | 22.9 | 80 | 120 | | | S |
| Calcium | 55.9 | 3.00 | 5.00 | 53.3 | 53.0 | 80 | 120 | | | S |
| Sodium | 68.4 | 3.00 | 5.00 | 60.5 | 158 | 80 | 120 | | | S |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705216
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170523A

| Sample ID | 1705217-03A MSD | Batch ID: | 80552 | TestNo: | SW6020A | Units: | mg/L | | | |
|-----------|-----------------|-----------|-----------------|----------------|-----------------------|------------|-----------|-------|----------|------|
| SampType: | MSD | Run ID: | ICP-MS4_170523A | Analysis Date: | 5/23/2017 11:44:00 AM | Prep Date: | 5/22/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 3.27 | 0.300 | 0.200 | 3.18 | 48.0 | 80 | 120 | 1.55 | 15 | S |
| Calcium | 55.8 | 3.00 | 5.00 | 53.3 | 49.9 | 80 | 120 | 0.276 | 15 | S |
| Sodium | 67.2 | 3.00 | 5.00 | 60.5 | 136 | 80 | 120 | 1.67 | 15 | S |

| | | | | |
|--------------------|----|---|-----|---------------------------------------|
| Qualifiers: | B | Analyte detected in the associated Method Blank | DF | Dilution Factor |
| | J | Analyte detected between MDL and RL | MDL | Method Detection Limit |
| | ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| | RL | Reporting Limit | S | Spike Recovery outside control limits |
| | J | Analyte detected between SDL and RL | N | Parameter not NELAC certified |

CLIENT: B-Environmental
Work Order: 1705216
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170523A

The QC data in batch 80556 applies to the following samples: 1705216-01B

| | | | | | | | | | | |
|---------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID MB-80556 | Batch ID: 80556 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: MBLK | Run ID: ICP-MS4_170523A | Analysis Date: 5/23/2017 12:31:00 PM | Prep Date: 5/22/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | <0.00500 | 0.0100 | | | | | | | | |
| Molybdenum | <0.00200 | 0.00500 | | | | | | | | |

| | | | | | | | | | | |
|----------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID LCS-80556 | Batch ID: 80556 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: LCS | Run ID: ICP-MS4_170523A | Analysis Date: 5/23/2017 12:33:00 PM | Prep Date: 5/22/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.203 | 0.0100 | 0.200 | 0 | 101 | 80 | 120 | | | |
| Molybdenum | 0.198 | 0.00500 | 0.200 | 0 | 99.1 | 80 | 120 | | | |

| | | | | | | | | | | |
|-----------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID LCSD-80556 | Batch ID: 80556 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: LCSD | Run ID: ICP-MS4_170523A | Analysis Date: 5/23/2017 12:35:00 PM | Prep Date: 5/22/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.208 | 0.0100 | 0.200 | 0 | 104 | 80 | 120 | 2.70 | 15 | |
| Molybdenum | 0.204 | 0.00500 | 0.200 | 0 | 102 | 80 | 120 | 3.07 | 15 | |

| | | | | | | | | | | |
|---------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1705217-03B SD | Batch ID: 80556 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: SD | Run ID: ICP-MS4_170523A | Analysis Date: 5/23/2017 12:41:00 PM | Prep Date: 5/22/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | <0.0250 | 0.0500 | 0 | 0.00500 | | | | 0 | 10 | |
| Molybdenum | 0.0960 | 0.0250 | 0 | 0.0915 | | | | 4.78 | 10 | |

| | | | | | | | | | | |
|----------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1705217-03B PDS | Batch ID: 80556 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: PDS | Run ID: ICP-MS4_170523A | Analysis Date: 5/23/2017 1:01:00 PM | Prep Date: 5/22/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.192 | 0.0100 | 0.200 | 0.00500 | 93.5 | 80 | 120 | | | |
| Molybdenum | 0.279 | 0.00500 | 0.200 | 0.0915 | 93.7 | 80 | 120 | | | |

| | | | | | | | | | | |
|---------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1705217-03B MS | Batch ID: 80556 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: MS | Run ID: ICP-MS4_170523A | Analysis Date: 5/23/2017 1:03:00 PM | Prep Date: 5/22/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.199 | 0.0100 | 0.200 | 0.00500 | 96.8 | 80 | 120 | | | |
| Molybdenum | 0.299 | 0.00500 | 0.200 | 0.0915 | 104 | 80 | 120 | | | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705216
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170523A

| Sample ID | 1705217-03B MSD | Batch ID: | 80556 | TestNo: | SW6020A | Units: | mg/L | | | |
|------------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|------|----------|------|
| SampType: | MSD | Run ID: | ICP-MS4_170523A | Analysis Date: | 5/23/2017 1:05:00 PM | Prep Date: | 5/22/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.193 | 0.0100 | 0.200 | 0.00500 | 94.2 | 80 | 120 | 2.62 | 15 | |
| Molybdenum | 0.290 | 0.00500 | 0.200 | 0.0915 | 99.3 | 80 | 120 | 3.10 | 15 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NBLAC certified

CLIENT: B-Environmental
Work Order: 1705216
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_170524B

The QC data in batch 80594 applies to the following samples: 1705216-01C

| | | | |
|---------------------------|---------------------------------|---|------------------------------|
| Sample ID MB-80594 | Batch ID: 80594 | TestNo: M2320 B | Units: mg/L @ pH 4.24 |
| SampType: MBLK | Run ID: TITRATOR_170524B | Analysis Date: 5/24/2017 10:09:00 AM | Prep Date: 5/24/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Total (As CaCO3) | <20.0 | 20.0 | | | | | | | | |

| | | | |
|----------------------------|---------------------------------|---|-----------------------------|
| Sample ID LCS-80594 | Batch ID: 80594 | TestNo: M2320 B | Units: mg/L @ pH 4 |
| SampType: LCS | Run ID: TITRATOR_170524B | Analysis Date: 5/24/2017 10:13:00 AM | Prep Date: 5/24/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Total (As CaCO3) | 51.8 | 20.0 | 50.00 | 0 | 104 | 74 | 129 | | | |

| | | | |
|----------------------------------|---------------------------------|--|------------------------------|
| Sample ID 1705217-03C-DUP | Batch ID: 80594 | TestNo: M2320 B | Units: mg/L @ pH 4.51 |
| SampType: DUP | Run ID: TITRATOR_170524B | Analysis Date: 5/24/2017 1:17:00 PM | Prep Date: 5/24/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | 133 | 20.0 | 0 | 133.5 | | | | 0.375 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | 133 | 20.0 | 0 | 133.5 | | | | 0.375 | 20 | |

| | | | |
|----------------------------------|---------------------------------|--|------------------------------|
| Sample ID 1705238-01C-DUP | Batch ID: 80594 | TestNo: M2320 B | Units: mg/L @ pH 4.48 |
| SampType: DUP | Run ID: TITRATOR_170524B | Analysis Date: 5/24/2017 2:14:00 PM | Prep Date: 5/24/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | <10.0 | 20.0 | 0 | 10.00 | | | | 0 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | <20.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

2609 North River Road, Port Allen, Louisiana 70767
(800) 401-4277 -- FAX (225) 381-2996



ARS International, LLC

Laboratory Analysis Report

ARS1-17-01443

Prepared for:

B-Environmental

**Kevin Baros
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Fax: 361-572-4115**

Project Manager Review

Management Review

Notes: ARS International, LLC assumes no liability for the use or the interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

Contact Person: Questions regarding this analytical report should be addressed to:

**Project Manager
ProjectManagers@amrad.com**

**Phone: 225.381.2991
Fax: 225.381.2996**



LELAP Cert# 01949



2609 North River Road, Port Allen, Louisiana 70767
 1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01443
 Client Sample ID: S171381625 (BATCH 55518)
 Sample Collection Date: 05/18/17
 Sample Matrix: Aqueous
 Percent Solids: N/A

Request or PO Number: N/A
 ARS Sample ID: ARS1-17-01443-001
 Date Received: 05/23/17
 Report Date: 06/19/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | NDC | DLC | CDRL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.216 | 0.130 | 0.140 | 0.051 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 06/16/17 9:29 | SCAUSEY | 99% |
| Ra-228 | 0.423 | 0.679 | 1.153 | 0.535 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/09/17 12:32 | SCAUSEY | 91% |

Project Manager Review

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QC Results Report

Sample Delivery Group: ARS1-17-01443

Laboratory Control Sample Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | LCS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|----------------------|
| ARS1-B17-01106 | LCS | RA-226 | 27.814 | 4.480 | 0.098 | 27.723 | N/A | pCi/L | ARS-010/EPA 903 | 6/16/17 11:29 | SC | 100 | 75%-125% |
| ARS1-B17-01106 | LCS | RA-228 | 32.901 | 5.513 | 1.063 | 39.784 | N/A | pCi/L | ARS-010/EPA 904 | 6/9/17 14:31 | SC | 83 | 75%-125% |

Blank Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|
| ARS1-B17-01106 | MBL | RA-226 | 0.082 | 0.065 | 0.089 | NA | U | pCi/L | ARS-010/EPA 903 | 6/16/17 11:29 | SC |
| ARS1-B17-01106 | MBL | RA-228 | -0.087 | 0.371 | 0.681 | NA | U | pCi/L | ARS-010/EPA 904 | 6/9/17 14:31 | SC |

RER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | RER | RER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01106 | LCSD | RA-226 | 27.814 | 4.480 | 35.081 | 5.636 | N/A | pCi/L | ARS-010/EPA 903 | 6/16/17 11:29 | SC | 0.72 | < 1 |
| ARS1-B17-01106 | LCSD | RA-228 | 32.901 | 5.513 | 34.717 | 5.792 | N/A | pCi/L | ARS-010/EPA 904 | 6/9/17 14:31 | SC | 0.16 | < 1 |

DER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | DER | DER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01106 | LCSD | RA-226 | 27.814 | 4.480 | 35.081 | 5.636 | N/A | pCi/L | ARS-010/EPA 903 | 6/16/17 11:29 | SC | 1.01 | < 3 |
| ARS1-B17-01106 | LCSD | RA-228 | 32.901 | 5.513 | 34.717 | 5.792 | N/A | pCi/L | ARS-010/EPA 904 | 6/9/17 14:31 | SC | 0.23 | < 3 |

Project Manager Review

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LELAP Certificate# 01949

NELAP Certificate # E87558



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1 (800) 401-4277 • Fax (225) 381-2996

Notes (Case Narrative):

Comments:

- 1.0) All MDA/MDC values are calculated on a sample specific basis.
- 2.0) Soil and Sludge analysis are reported on a wet basis or an as received basis unless otherwise indicated.
- 3.0) Data in this report are within the limits of uncertainty specified in the reference method unless otherwise specified.
- 4.0) Modified analysis procedures are procedures that are modified to meet the certain specifications. An example may be the use of a water method to analyze a solid matrix due to the lack of an officially recognized procedure for the analysis of the solid matrix. Modified analyses are indicated by the subsequent addition of "m" to the procedure number (i.e. 900.0M).
- 5.0) Total activity is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring radioactive decay chains and other prominent radioactive nuclides. Total activity may be lower than the actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not representative of nuclides that emit solely alpha or beta particles.
- 6.0) Ra-228 is determined via secular equilibrium with its daughter, Actinium 228 (Gamma Spectroscopy only).
- 7.0) U-238 is determined via secular equilibrium with its daughter, Thorium 234 (Gamma Spectroscopy only).
- 8.0) All gamma spectroscopy was performed utilizing high purity germanium detectors (HPGe).
- 9.0) ARS makes every attempt to match sample density to calibrated density; however, in some cases, it is not practical or possible to do so and data results may be affected (Gamma Spectroscopy only).
- 10.0) Gamma spectroscopy results are calculated values based on the ORTEC® GammaVision ENV32 Analysis Engine.
- 11.0) ACLASS DOD and ISO 17025 certification applies only to the following analytes and methods: Gross Alpha and Gross Beta (EPA 900, SM7110B&C, SW846 9310); Radium 226 (EPA 903, EPA 903.1, SM 7500 Ra-B, SW846 9315); Radium 228 (EPA 904, SM 7500 Ra-B SW846 9320); Iodine-131(EPA 901.1); Uranium by ICPMS (EPA 200.8); Strontium 89/90 (EPA 905, Eichrom SRW01, HASL 300 Sr-03-RC); Tritium (EPA 906, EPA 906M); Gamma Emitters (EPA 901.1, SM7120B, HASL 300 Ga-01-R); Americium-241, Curium 242/244, Plutonium 239/240 and 241, Thorium 228/230/232, Uranium 234/233 and 238 (Eichrom ACW03 VBS); Lead 210 (HASL 300 Pb-01-RC, Eichrom OTW01); Polonium 210 (HASL 300 Po-01-RC, HASL 300 Po-02-RC); Technetium-99 (Eichrom TCW02, Eichrom TCS01M).

Method References:

- 1.0) EPA 600/4-80-032; Prescribed Procedures for the Measurements of Radioactivity in Drinking Water, August 1980.
- 2.0) Standard Methods for the Examination of Water and Wastewater (On-Line Edition)
- 3.0) EPA SW-846; Test Methods for Evaluating Solid Waste, (On-Line edition)
- 4.0) EPA 600/4/79-020; Methods for Chemical Analysis of Water and Waste, March 1983.
- 5.0) HASL 300; The Procedures Manual of the Environmental Measurements Laboratory, Volume I, 28th Edition February, 1997.

Definitions:

| | |
|----------|---|
| CRDL | Contract Required Detection Limit |
| CSU | Combined Standard Uncertainty |
| DLC | Decision Level Concentration (ANSI N42.23) or critical level |
| DO | Duplicate Original |
| DUP | Method Duplicate |
| LCS/LCSD | Laboratory Control Sample/Laboratory Control Sample Duplicate |
| MDA | Minimum Detectable Activity |
| MDC | (Minimum Detectable Concentration) minimum concentration of the analyte that ARS can detect utilizing the specific analysis |
| MBL | Method Blank |
| MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| N/A | Not Applicable |
| NP | Not Provided |
| NR | Not Referenced |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |

Data Qualifiers:

| | |
|----|--|
| B | The analyte is found in both the associated method blank and the sample. This flag indicates probable blank contamination. |
| D | Sample analysis accomplished through dilution. |
| J | The reported result is an estimated value above the limit of detection but outside of quantitation range (e.g., matrix interference was observed). |
| Q | One or more quality control criteria failed (e.g., LCS recovery, surrogate spike recovery, or CCV recovery). |
| U | Activity is below the MDC, MDA, MDL, or LOD |
| N | The analyte is a tentatively identified compound using mass spectrometry or any non-customer requested compounds that are tentatively identified. |
| * | LCS/LCSD or MS/MSD fails RPD criteria. |
| S | Spike |
| SC | Subcontracted out to another qualified laboratory |
| H | Holding time exceeded |

LELAP Cert# 01949

NELAP Cert# E87558

ARS-059-010
Revision: 9.1
Revision Date: 03-14-2017



Chain of Custody Record

Batch # 55578

TEMP UN-C: 14.3

Page ___ of ___

Customer / Report Information
 Name: Colto Creek Power
 Attention: Rick Coleman
 Address: _____
 PO#: _____

Billing Information Check box if Billing is the same as Report Information
 Address: _____
 Attention: _____
 Project: CCR Sample
 Comments: _____

Phone: 361-788-5145 FAX: _____
 EMAIL: Richard.Coleman@chrym.com
 Requested Analysis: B C A E D F
 Completed By Laboratory: _____

| Client / Field Sample ID | Collected | | Matrix | Container TYPE | SIZE | Preservative | Custody Seals Present Yes <input type="checkbox"/> No <input type="checkbox"/> |
|------------------------------|----------------|---------------|----------|----------------|-----------|---|---|
| | Date | Time | | | | | |
| <u>WV-11 Catch Up Sample</u> | <u>5/18/17</u> | <u>13:48G</u> | <u>W</u> | <u>P6</u> | <u>1L</u> | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE <input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 |
| | | | | | | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE <input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | <input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 |
| | | | | | | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE <input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | <input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 |
| | | | | | | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE <input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | <input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 |
| | | | | | | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE <input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | <input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 |
| | | | | | | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE <input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | <input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 |
| | | | | | | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE <input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | <input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 |

1606 E Brazos Suite D, Victoria, Texas 77901 Ph. (361) 572-8224 Fax (361) 572-4115 Toll Free 1-800-460-8223 Form #1000.0-2 REV 1.2 Email: kbenviro@suddenlinkmail.com www.benviro.com

Fluoride: 0.25 mg/L; Metals: B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, Mg, K, Na, & Hg

BatchNo: 55518

SAMPLE REPORT



T104704328-17-14

Business

Coletto Creek Power - R Coleman
PO Box 8
Fannin TX 77960
Att: Rick Coleman



Laboratory

B Environmental, LLC.
1606 E Brazos, Suite D
Victoria TX 77901
ph. 361-572-8224

Reference Information

Project: CCR Sample
Printed: Friday, June 23,
2017

Re: Coletto Creek Power - R Coleman

Dear: Rick Coleman

Attached are the results for sample(s) received on 5/18/2017

The analytical results relate only to the samples tested.
All supporting quality data meets the requirements of NELAC unless noted in the case narrative section of the report.

This report contains 22 pages (including the cover page)

If you have any questions concerning this report, please do not hesitate to call (361) 572-8224 or Fax us at (361) 572-4115

Respectfully Submitted,

Kevin Baros
Laboratory Director



B Environmental, LLC. 1606 E Brazos, Suite D Victoria TX 77901

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B Environmental, LLC.
1606 E Brazos, Suite D

BatchNo: 55518

Victoria TX 77901

Batch No:

Sample Receipt Checklist

Date Received:

Project Received By:

Login completed by:

Carrier Name

- YES NO Not Present
- YES NO Not Present
- YES NO Not Present
- YES NO
- YES NO
- YES NO
- YES NO
- YES NO
- YES NO
- YES NO
- YES NO >0 <6 °C On Ice
- YES NO No VOA Vials submitted
- YES NO Not Applicable

*TEMP pH Adjusted? Checked By

Any No and/or N/A (not applicable) response must be detailed in the comments section below.

Client contacted Person Contacted
Contacted by: Date Contacted:

Regarding

Comments

Corrective Action



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 Victoria TX 77901

BatchNo: 55518

Sample Report Information



| | | |
|------------------------------|---|------------------------|
| Sample ID: S171381625 | Client ID: MW-11 Catch Up Sample | Sampler: Client |
|------------------------------|---|------------------------|

Client: Coleta Creek Power - R Coleman
Study: Water

Batch No: 55518
Sampled: 5/18/2017 1:48 PM

Project: CCR Sample

Location: MW #11

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 47.8 | mg/L | EPA 300 | K Baros | 5/22/2017 14:08 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 148 | mg/L | SM 2320 B | | 5/24/2017 12:40 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 5/24/2017 12:40 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 148 | mg/L | SM 2320 B | | 5/24/2017 12:40 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.94 | mg/L | EPA 300 | K Baros | 5/22/2017 14:08 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.29 | SU | SM 4500-H+B | C Watts | 5/18/2017 16:50 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 390 | mg/L | SM2540C | C Watts | 5/24/2017 17:45 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 5/22/2017 15:56 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 52.4 | mg/L | EPA 300 | K Baros | 5/22/2017 14:08 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 6/16/2017 9:29 | | | | | <input checked="" type="checkbox"/> | ARS International |



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BatchNo: 55518

Victoria TX 77901



QA Summary Report

| Parameter | ID | Result | Ref Value | Amt Added | LOQ | Qualifier | Control | Flag | Comments |
|------------------------------------|------------|-----------|-----------|-----------|------|-----------|----------|----------|-------------------------------|
| Method Blank | | | | | | | | | |
| - Chloride, IC | Q171451223 | <1mg/L | 0 | | | 1 | 1 | | Blank Acceptable. |
| 5/22/2017 12:52 | | | | | | | | | |
| Fluoride, IC | Q171451223 | <0.25mg/L | 0 | | 0.25 | | 0.25 | | Blank Acceptable. |
| 5/22/2017 12:52 | | | | | | | | | |
| Nitrate-N, IC | Q171451223 | <0.06mg/L | 0 | | 0.06 | | 0.06 | | Blank Acceptable. |
| 5/22/2017 12:52 | | | | | | | | | |
| Nitrite-N, IC | Q171451223 | <0.08mg/L | 0 | | 0.08 | | 0.08 | | Blank Acceptable. |
| 5/22/2017 12:52 | | | | | | | | | |
| Solids, Total Dissolved | Q171511045 | <25mg/L | 0 | | 10 | | 25 | | Blank Acceptable. |
| 5/24/2017 17:45 | | | | | | | | | |
| Sulfate, IC | Q171451223 | <1mg/L | 0 | | | 1 | 1 | | Blank Acceptable. |
| 5/22/2017 12:52 | | | | | | | | | |
| Duplicate | | | | | | | | | |
| pH (Standard Units) | Q17139095A | 7.32SU | 7.29 | | | 2 | 0.4% | 20 | Duplicate RPD Acceptable. |
| 5/18/2017 16:50 | | | | | | | | | |
| Solids, Total Dissolved | Q171511047 | 408mg/L | 410 | | 10 | 0.5% | 20 | | Duplicate RPD Acceptable. |
| 5/24/2017 17:45 | | | | | | | | | |
| Laboratory Control Standard | | | | | | | | | |
| - Chloride, IC | Q171451224 | 25.4mg/L | 25 | | | 1 | 101.6% | 80 - 120 | Standard Recovery Acceptable. |
| 5/22/2017 13:30 | | | | | | | 1.6% | 20 | Standard RPD Acceptable. |
| Fluoride, IC | Q171451224 | 2.04mg/L | 2 | | 0.25 | 102.0% | 80 - 120 | | Standard Recovery Acceptable. |
| 5/22/2017 13:30 | | | | | | 2.0% | 20 | | Standard RPD Acceptable. |
| Nitrate-N, IC | Q171451224 | 0.45mg/L | 0.45 | | 0.06 | 100.0% | 80 - 120 | | Standard Recovery Acceptable. |
| 5/22/2017 13:30 | | | | | | 0.0% | 25 | | Standard RPD Acceptable. |
| Nitrite-N, IC | Q171451224 | 0.62mg/L | 0.61 | | 0.08 | 101.6% | 80 - 120 | | Standard Recovery Acceptable. |
| 5/22/2017 13:30 | | | | | | 1.6% | 25 | | Standard RPD Acceptable. |
| pH (Standard Units) | Q171390952 | 7.01SU | 7 | | | 2 | 100.1% | 80 - 120 | Standard Recovery Acceptable. |
| 5/18/2017 16:50 | | | | | | | 0.1% | 20 | Standard RPD Acceptable. |
| Sulfate, IC | Q171451224 | 25.8mg/L | 25 | | | 1 | 103.2% | 80 - 120 | Standard Recovery Acceptable. |
| 5/22/2017 13:30 | | | | | | | 3.1% | 20 | Standard RPD Acceptable. |
| Matrix Spike | | | | | | | | | |
| - Chloride, IC | Q171451225 | 404mg/L | 409 | 125 | | 1 | 96.0% | 80 - 120 | Spike Recovery Acceptable. |
| 5/22/2017 15:24 | | | | | | | 1.2% | 20 | Spike RPD Acceptable. |
| Fluoride, IC | Q171451225 | 9.59mg/L | 10.34 | 10 | 0.25 | 92.5% | 80 - 120 | | Spike Recovery Acceptable. |
| 5/22/2017 15:24 | | | | | | 7.5% | 20 | | Spike RPD Acceptable. |
| Nitrate-N, IC | Q171451225 | 2.15mg/L | 2.25 | 2.25 | 0.06 | 95.6% | 80 - 120 | | Spike Recovery Acceptable. |
| 5/22/2017 15:24 | | | | | | 4.5% | 20 | | Spike RPD Acceptable. |
| Nitrite-N, IC | Q171451225 | 2.92mg/L | 3.05 | 3.05 | 0.08 | 95.7% | 80 - 120 | | Spike Recovery Acceptable. |
| 5/22/2017 15:24 | | | | | | 4.4% | 20 | | Spike RPD Acceptable. |
| Sulfate, IC | Q171451225 | 153mg/L | 155 | 125 | | 1 | 98.4% | 70 - 130 | Spike Recovery Acceptable. |
| 5/22/2017 15:24 | | | | | | | 1.3% | 20 | Spike RPD Acceptable. |



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Victoria TX 77901

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B Environmental, LLC.
1606 E Brazos, Suite D

BatchNo: 55518

Victoria TX 77901

| Parameter | ID | Result | Ref Value | Amt Added | LOQ | Qualifier | Control | Flag | Comments |
|-------------------------|------------|----------|-----------|-----------|------|-----------|----------|------|----------------------------|
| Matrix Spike Dup | | | | | | | | | |
| - Chloride, IC | Q17145122A | 404mg/L | 409 | 125 | 1 | 96.0% | 80 - 120 | | Spike Recovery Acceptable. |
| 5/22/2017 16:02 | | | | | | 1.2% | 20 | | Spike RPD Acceptable. |
| Fluoride, IC | Q17145122A | 9.55mg/L | 10.34 | 10 | 0.25 | 92.1% | 80 - 120 | | Spike Recovery Acceptable. |
| 5/22/2017 16:02 | | | | | | 7.9% | 20 | | Spike RPD Acceptable. |
| Nitrate-N, IC | Q17145122A | 2.14mg/L | 2.25 | 2.25 | 0.06 | 95.1% | 80 - 120 | | Spike Recovery Acceptable. |
| 5/22/2017 16:02 | | | | | | 5.0% | 20 | | Spike RPD Acceptable. |
| Nitrite-N, IC | Q17145122A | 2.86mg/L | 3.05 | 3.05 | 0.08 | 93.8% | 80 - 120 | | Spike Recovery Acceptable. |
| 5/22/2017 16:02 | | | | | | 6.4% | 20 | | Spike RPD Acceptable. |
| Sulfate, IC | Q17145122A | 152mg/L | 155 | 125 | 1 | 97.6% | 70 - 130 | | Spike Recovery Acceptable. |
| 5/22/2017 16:02 | | | | | | 2.0% | 20 | | Spike RPD Acceptable. |

Flag and Qualifier Legend

| | | |
|--|--|---|
|  <i>Negative - Result Detected</i> | <i>MDL = Method Detection Limit</i> | <i>DF = Dilution Factor</i> |
|  <i>Caution - Problem Detected</i> | <i>LOQ = Limit of Quantitation</i> | <i>j = Analyte detected between MDL and LOQ</i> |
|  <i>Warning - Null Value</i> | <i>S = surrogate standard out of limit</i> | <i>H = sample out of hold time</i> |
|  MS, MSD, RPD- Failure may occur due to matrix interference, data released per QA plan | | |

Friday, June 23, 2017

B Environmental - LDMS QA Report Summary

Note:

THANK YOU!



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DHL Analytical, Inc.

Date: 25-May-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Lab Order: 1705216

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition and Standard Methods.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives except where noted in the following. For Total Metals Analysis, the recoveries of three analytes for the Matrix Spike and Matrix Spike Duplicate (1705217-03 MS/MSD) were outside of the method control limits. These are flagged accordingly in the QC Summary Report. These analytes were within method control limits in the associated LCS. No further corrective action was taken.

For Total Metals Analysis, the recovery of Antimony for the Post Digestion Spike (1705217-03 PDS) was below the method control limits. This is flagged accordingly in the QC Summary Report. This analyte was within method control limits in the associated Serial Dilution. No further corrective action was taken.

For Total/Dissolved Metals Analysis, the results of dissolved Lithium/Molybdenum for Sample MW 11 Catch Up Sample were slightly higher than the results of total Lithium/Molybdenum. The results were within acceptable analytical variation limits. No further corrective action was taken.

DHL Analytical, Inc.

Date: 25-May-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR (55518)
Lab Order: 1705216

Client Sample ID: MW 11 Catch Up Sample
Lab ID: 1705216-01
Alternate ID: S171381625
Collection Date: 05/18/17 01:48 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|---------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 0.0126 | 0.00500 | 0.0100 | | mg/L | 1 | 05/23/17 12:57 PM |
| Dissolved Molybdenum | 0.00849 | 0.00200 | 0.00500 | | mg/L | 1 | 05/23/17 12:57 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 05/22/17 03:56 PM |
| Arsenic | 0.0188 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 03:56 PM |
| Barium | 0.0779 | 0.00300 | 0.0100 | | mg/L | 1 | 05/22/17 03:56 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/22/17 03:56 PM |
| Boron | 1.27 | 0.100 | 0.300 | | mg/L | 10 | 05/23/17 11:38 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 05/22/17 03:56 PM |
| Calcium | 51.6 | 1.00 | 3.00 | | mg/L | 10 | 05/23/17 11:38 AM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 03:56 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 05/22/17 03:56 PM |
| Lead | 0.00204 | 0.000300 | 0.00100 | | mg/L | 1 | 05/22/17 03:56 PM |
| Lithium | 0.0122 | 0.00500 | 0.0100 | | mg/L | 1 | 05/22/17 03:56 PM |
| Magnesium | 4.33 | 0.100 | 0.300 | | mg/L | 1 | 05/22/17 03:56 PM |
| Molybdenum | 0.00781 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 03:56 PM |
| Potassium | 1.54 | 0.100 | 0.300 | | mg/L | 1 | 05/22/17 03:56 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 05/22/17 03:56 PM |
| Sodium | 65.3 | 1.00 | 3.00 | | mg/L | 10 | 05/23/17 11:38 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 05/22/17 03:56 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: RO | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 05/22/17 02:13 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 148 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 05/24/17 12:40 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 05/24/17 12:40 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 05/24/17 12:40 PM |
| Alkalinity, Total (As CaCO3) | 148 | 20.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 05/24/17 12:40 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 25-May-17

CLIENT: B-Environmental
 Work Order: 1705216
 Project: Colecto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_170522C

The QC data in batch 80558 applies to the following samples: 1705216-01A

| | | | | | | | |
|-----------|----------|-----------|------------------|----------------|----------------------|------------|-----------|
| Sample ID | MB-80558 | Batch ID: | 80558 | TestNo: | SW7470A | Units: | mg/L |
| SampType: | MBLK | Run ID: | CETAC2_HG_170522 | Analysis Date: | 5/22/2017 1:28:18 PM | Prep Date: | 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|------------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | <0.0000800 | 0.000200 | | | | | | | | |

| | | | | | | | |
|-----------|-----------|-----------|------------------|----------------|----------------------|------------|-----------|
| Sample ID | LCS-80558 | Batch ID: | 80558 | TestNo: | SW7470A | Units: | mg/L |
| SampType: | LCS | Run ID: | CETAC2_HG_170522 | Analysis Date: | 5/22/2017 1:30:34 PM | Prep Date: | 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00205 | 0.000200 | 0.00200 | 0 | 103 | 85 | 115 | | | |

| | | | | | | | |
|-----------|------------|-----------|------------------|----------------|----------------------|------------|-----------|
| Sample ID | LCSD-80558 | Batch ID: | 80558 | TestNo: | SW7470A | Units: | mg/L |
| SampType: | LCSD | Run ID: | CETAC2_HG_170522 | Analysis Date: | 5/22/2017 1:32:50 PM | Prep Date: | 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00205 | 0.000200 | 0.00200 | 0 | 103 | 85 | 115 | 0 | 15 | |

| | | | | | | | |
|-----------|----------------|-----------|------------------|----------------|----------------------|------------|-----------|
| Sample ID | 1705217-03A SD | Batch ID: | 80558 | TestNo: | SW7470A | Units: | mg/L |
| SampType: | SD | Run ID: | CETAC2_HG_170522 | Analysis Date: | 5/22/2017 1:37:23 PM | Prep Date: | 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|-----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | <0.000400 | 0.00100 | 0 | 0 | | | | 0 | 10 | |

| | | | | | | | |
|-----------|-----------------|-----------|------------------|----------------|----------------------|------------|-----------|
| Sample ID | 1705217-03A PDS | Batch ID: | 80558 | TestNo: | SW7470A | Units: | mg/L |
| SampType: | PDS | Run ID: | CETAC2_HG_170522 | Analysis Date: | 5/22/2017 1:39:38 PM | Prep Date: | 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00239 | 0.000200 | 0.00250 | 0 | 95.6 | 85 | 115 | | | |

| | | | | | | | |
|-----------|----------------|-----------|------------------|----------------|----------------------|------------|-----------|
| Sample ID | 1705217-03A MS | Batch ID: | 80558 | TestNo: | SW7470A | Units: | mg/L |
| SampType: | MS | Run ID: | CETAC2_HG_170522 | Analysis Date: | 5/22/2017 1:41:54 PM | Prep Date: | 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00207 | 0.000200 | 0.00200 | 0 | 104 | 80 | 120 | | | |

| | | | | | | | |
|-----------|-----------------|-----------|------------------|----------------|----------------------|------------|-----------|
| Sample ID | 1705217-03A MSD | Batch ID: | 80558 | TestNo: | SW7470A | Units: | mg/L |
| SampType: | MSD | Run ID: | CETAC2_HG_170522 | Analysis Date: | 5/22/2017 1:44:09 PM | Prep Date: | 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|-------|----------|------|
| Mercury | 0.00209 | 0.000200 | 0.00200 | 0 | 104 | 80 | 120 | 0.962 | 15 | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705216
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170522A

The QC data in batch 80552 applies to the following samples: 1705216-01A

| | | | |
|---------------------------|--------------------------------|--|-----------------------------|
| Sample ID MB-80552 | Batch ID: 80552 | TestNo: SW6020A | Units: mg/L |
| SampType: MBLK | Run ID: ICP-MS4_170522A | Analysis Date: 5/22/2017 3:30:00 PM | Prep Date: 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|-----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | <0.000800 | 0.00250 | | | | | | | | |
| Arsenic | <0.00200 | 0.00500 | | | | | | | | |
| Barium | <0.00300 | 0.0100 | | | | | | | | |
| Beryllium | <0.000300 | 0.00100 | | | | | | | | |
| Cadmium | <0.000300 | 0.00100 | | | | | | | | |
| Calcium | <0.100 | 0.300 | | | | | | | | |
| Chromium | <0.00200 | 0.00500 | | | | | | | | |
| Cobalt | <0.00300 | 0.00500 | | | | | | | | |
| Lead | <0.000300 | 0.00100 | | | | | | | | |
| Lithium | <0.00500 | 0.0100 | | | | | | | | |
| Magnesium | <0.100 | 0.300 | | | | | | | | |
| Molybdenum | <0.00200 | 0.00500 | | | | | | | | |
| Potassium | <0.100 | 0.300 | | | | | | | | |
| Selenium | <0.00200 | 0.00500 | | | | | | | | |
| Sodium | <0.100 | 0.300 | | | | | | | | |
| Thallium | <0.000500 | 0.00150 | | | | | | | | |

| | | | |
|----------------------------|--------------------------------|--|-----------------------------|
| Sample ID LCS-80552 | Batch ID: 80552 | TestNo: SW6020A | Units: mg/L |
| SampType: LCS | Run ID: ICP-MS4_170522A | Analysis Date: 5/22/2017 3:32:00 PM | Prep Date: 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.192 | 0.00250 | 0.200 | 0 | 95.9 | 80 | 120 | | | |
| Arsenic | 0.198 | 0.00500 | 0.200 | 0 | 99.2 | 80 | 120 | | | |
| Barium | 0.190 | 0.0100 | 0.200 | 0 | 95.0 | 80 | 120 | | | |
| Beryllium | 0.198 | 0.00100 | 0.200 | 0 | 99.1 | 80 | 120 | | | |
| Cadmium | 0.196 | 0.00100 | 0.200 | 0 | 97.8 | 80 | 120 | | | |
| Calcium | 4.97 | 0.300 | 5.00 | 0 | 99.3 | 80 | 120 | | | |
| Chromium | 0.200 | 0.00500 | 0.200 | 0 | 100 | 80 | 120 | | | |
| Cobalt | 0.201 | 0.00500 | 0.200 | 0 | 100 | 80 | 120 | | | |
| Lead | 0.195 | 0.00100 | 0.200 | 0 | 97.4 | 80 | 120 | | | |
| Lithium | 0.198 | 0.0100 | 0.200 | 0 | 99.1 | 80 | 120 | | | |
| Magnesium | 5.02 | 0.300 | 5.00 | 0 | 100 | 80 | 120 | | | |
| Molybdenum | 0.192 | 0.00500 | 0.200 | 0 | 95.9 | 80 | 120 | | | |
| Potassium | 5.04 | 0.300 | 5.00 | 0 | 101 | 80 | 120 | | | |
| Selenium | 0.198 | 0.00500 | 0.200 | 0 | 99.0 | 80 | 120 | | | |
| Sodium | 4.99 | 0.300 | 5.00 | 0 | 99.8 | 80 | 120 | | | |
| Thallium | 0.197 | 0.00150 | 0.200 | 0 | 98.3 | 80 | 120 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705216
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170522A

| | | | | | | | |
|-----------|------------|-----------|-----------------|----------------|----------------------|------------|-----------|
| Sample ID | LCSD-80552 | Batch ID: | 80552 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | LCSD | Run ID: | ICP-MS4_170522A | Analysis Date: | 5/22/2017 3:34:00 PM | Prep Date: | 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | 0.193 | 0.00250 | 0.200 | 0 | 96.6 | 80 | 120 | 0.707 | 15 | |
| Arsenic | 0.199 | 0.00500 | 0.200 | 0 | 99.4 | 80 | 120 | 0.265 | 15 | |
| Barium | 0.190 | 0.0100 | 0.200 | 0 | 95.0 | 80 | 120 | 0.006 | 15 | |
| Beryllium | 0.199 | 0.00100 | 0.200 | 0 | 99.5 | 80 | 120 | 0.475 | 15 | |
| Cadmium | 0.196 | 0.00100 | 0.200 | 0 | 98.2 | 80 | 120 | 0.424 | 15 | |
| Calcium | 4.99 | 0.300 | 5.00 | 0 | 99.8 | 80 | 120 | 0.452 | 15 | |
| Chromium | 0.203 | 0.00500 | 0.200 | 0 | 101 | 80 | 120 | 1.41 | 15 | |
| Cobalt | 0.202 | 0.00500 | 0.200 | 0 | 101 | 80 | 120 | 0.468 | 15 | |
| Lead | 0.196 | 0.00100 | 0.200 | 0 | 98.2 | 80 | 120 | 0.750 | 15 | |
| Lithium | 0.197 | 0.0100 | 0.200 | 0 | 98.4 | 80 | 120 | 0.696 | 15 | |
| Magnesium | 5.08 | 0.300 | 5.00 | 0 | 102 | 80 | 120 | 1.07 | 15 | |
| Molybdenum | 0.194 | 0.00500 | 0.200 | 0 | 96.8 | 80 | 120 | 0.894 | 15 | |
| Potassium | 5.11 | 0.300 | 5.00 | 0 | 102 | 80 | 120 | 1.41 | 15 | |
| Selenium | 0.198 | 0.00500 | 0.200 | 0 | 99.0 | 80 | 120 | 0.065 | 15 | |
| Sodium | 5.01 | 0.300 | 5.00 | 0 | 100 | 80 | 120 | 0.505 | 15 | |
| Thallium | 0.198 | 0.00150 | 0.200 | 0 | 98.9 | 80 | 120 | 0.574 | 15 | |

| | | | | | | | |
|-----------|----------------|-----------|-----------------|----------------|----------------------|------------|-----------|
| Sample ID | 1705217-03A SD | Batch ID: | 80552 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | SD | Run ID: | ICP-MS4_170522A | Analysis Date: | 5/22/2017 3:40:00 PM | Prep Date: | 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | <0.00400 | 0.0125 | 0 | 0 | | | | 0 | 10 | |
| Arsenic | <0.0100 | 0.0250 | 0 | 0.00958 | | | | 0 | 10 | |
| Barium | 0.0990 | 0.0500 | 0 | 0.101 | | | | 1.73 | 10 | |
| Beryllium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Cadmium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Chromium | <0.0100 | 0.0250 | 0 | 0.00345 | | | | 0 | 10 | |
| Cobalt | <0.0150 | 0.0250 | 0 | 0.00305 | | | | 0 | 10 | |
| Lead | 0.00384 | 0.00500 | 0 | 0.00377 | | | | 1.89 | 10 | |
| Lithium | <0.0250 | 0.0500 | 0 | 0.00590 | | | | 0 | 10 | |
| Magnesium | 7.15 | 1.50 | 0 | 7.00 | | | | 2.15 | 10 | |
| Molybdenum | 0.0910 | 0.0250 | 0 | 0.0900 | | | | 1.12 | 10 | |
| Potassium | 1.11 | 1.50 | 0 | 1.08 | | | | 2.39 | 10 | |
| Selenium | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Thallium | <0.00250 | 0.00750 | 0 | 0 | | | | 0 | 10 | |

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|
| Sample ID | 1705217-03A PDS | Batch ID: | 80552 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | PDS | Run ID: | ICP-MS4_170522A | Analysis Date: | 5/22/2017 4:00:00 PM | Prep Date: | 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.122 | 0.00250 | 0.200 | 0 | 60.8 | 80 | 120 | | | S |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705216
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170522A

| Sample ID | 1705217-03A PDS | Batch ID: | 80552 | TestNo: | SW6020A | Units: | mg/L | | | |
|------------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|------|----------|------|
| SampType: | PDS | Run ID: | ICP-MS4_170522A | Analysis Date: | 5/22/2017 4:00:00 PM | Prep Date: | 5/22/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Arsenic | 0.208 | 0.00500 | 0.200 | 0.00958 | 99.3 | 80 | 120 | | | |
| Barium | 0.285 | 0.0100 | 0.200 | 0.101 | 91.9 | 80 | 120 | | | |
| Beryllium | 0.189 | 0.00100 | 0.200 | 0 | 94.5 | 80 | 120 | | | |
| Cadmium | 0.191 | 0.00100 | 0.200 | 0 | 95.5 | 80 | 120 | | | |
| Chromium | 0.202 | 0.00500 | 0.200 | 0.00345 | 99.4 | 80 | 120 | | | |
| Cobalt | 0.196 | 0.00500 | 0.200 | 0.00305 | 96.6 | 80 | 120 | | | |
| Lead | 0.196 | 0.00100 | 0.200 | 0.00377 | 96.3 | 80 | 120 | | | |
| Lithium | 0.183 | 0.0100 | 0.200 | 0.00590 | 88.5 | 80 | 120 | | | |
| Magnesium | 11.1 | 0.300 | 5.00 | 7.00 | 82.1 | 80 | 120 | | | |
| Molybdenum | 0.274 | 0.00500 | 0.200 | 0.0899 | 91.8 | 80 | 120 | | | |
| Potassium | 5.81 | 0.300 | 5.00 | 1.08 | 94.5 | 80 | 120 | | | |
| Selenium | 0.189 | 0.00500 | 0.200 | 0 | 94.3 | 80 | 120 | | | |
| Thallium | 0.195 | 0.00150 | 0.200 | 0 | 97.3 | 80 | 120 | | | |

| Sample ID | 1705217-03A MS | Batch ID: | 80552 | TestNo: | SW6020A | Units: | mg/L | | | |
|------------|----------------|-----------|-----------------|----------------|----------------------|------------|-----------|------|----------|------|
| SampType: | MS | Run ID: | ICP-MS4_170522A | Analysis Date: | 5/22/2017 4:02:00 PM | Prep Date: | 5/22/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Antimony | 0.190 | 0.00250 | 0.200 | 0 | 95.2 | 80 | 120 | | | |
| Arsenic | 0.211 | 0.00500 | 0.200 | 0.00958 | 101 | 80 | 120 | | | |
| Barium | 0.280 | 0.0100 | 0.200 | 0.101 | 89.8 | 80 | 120 | | | |
| Beryllium | 0.191 | 0.00100 | 0.200 | 0 | 95.3 | 80 | 120 | | | |
| Cadmium | 0.191 | 0.00100 | 0.200 | 0 | 95.7 | 80 | 120 | | | |
| Chromium | 0.199 | 0.00500 | 0.200 | 0.00345 | 97.6 | 80 | 120 | | | |
| Cobalt | 0.199 | 0.00500 | 0.200 | 0.00305 | 97.9 | 80 | 120 | | | |
| Lead | 0.198 | 0.00100 | 0.200 | 0.00377 | 97.0 | 80 | 120 | | | |
| Lithium | 0.192 | 0.0100 | 0.200 | 0.00590 | 93.1 | 80 | 120 | | | |
| Magnesium | 11.4 | 0.300 | 5.00 | 7.00 | 88.9 | 80 | 120 | | | |
| Molybdenum | 0.280 | 0.00500 | 0.200 | 0.0899 | 95.1 | 80 | 120 | | | |
| Potassium | 5.91 | 0.300 | 5.00 | 1.08 | 96.5 | 80 | 120 | | | |
| Selenium | 0.194 | 0.00500 | 0.200 | 0 | 96.8 | 80 | 120 | | | |
| Thallium | 0.198 | 0.00150 | 0.200 | 0 | 98.8 | 80 | 120 | | | |

| Sample ID | 1705217-03A MSD | Batch ID: | 80552 | TestNo: | SW6020A | Units: | mg/L | | | |
|-----------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|------|----------|------|
| SampType: | MSD | Run ID: | ICP-MS4_170522A | Analysis Date: | 5/22/2017 4:04:00 PM | Prep Date: | 5/22/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Antimony | 0.187 | 0.00250 | 0.200 | 0 | 93.5 | 80 | 120 | 1.83 | 15 | |
| Arsenic | 0.205 | 0.00500 | 0.200 | 0.00958 | 97.9 | 80 | 120 | 2.64 | 15 | |
| Barium | 0.273 | 0.0100 | 0.200 | 0.101 | 86.3 | 80 | 120 | 2.50 | 15 | |
| Beryllium | 0.185 | 0.00100 | 0.200 | 0 | 92.5 | 80 | 120 | 2.97 | 15 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705216
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170522A

| | | | |
|-----------------------------------|--------------------------------|--|-----------------------------|
| Sample ID: 1705217-03A MSD | Batch ID: 80552 | TestNo: SW6020A | Units: mg/L |
| SampType: MSD | Run ID: ICP-MS4_170522A | Analysis Date: 5/22/2017 4:04:00 PM | Prep Date: 5/22/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Cadmium | 0.185 | 0.00100 | 0.200 | 0 | 92.5 | 80 | 120 | 3.37 | 15 | |
| Chromium | 0.194 | 0.00500 | 0.200 | 0.00345 | 95.2 | 80 | 120 | 2.41 | 15 | |
| Cobalt | 0.193 | 0.00500 | 0.200 | 0.00305 | 94.9 | 80 | 120 | 3.07 | 15 | |
| Lead | 0.192 | 0.00100 | 0.200 | 0.00377 | 93.9 | 80 | 120 | 3.14 | 15 | |
| Lithium | 0.185 | 0.0100 | 0.200 | 0.00590 | 89.5 | 80 | 120 | 3.89 | 15 | |
| Magnesium | 11.3 | 0.300 | 5.00 | 7.00 | 85.6 | 80 | 120 | 1.43 | 15 | |
| Molybdenum | 0.272 | 0.00500 | 0.200 | 0.0899 | 91.2 | 80 | 120 | 2.79 | 15 | |
| Potassium | 5.84 | 0.300 | 5.00 | 1.08 | 95.2 | 80 | 120 | 1.11 | 15 | |
| Selenium | 0.191 | 0.00500 | 0.200 | 0 | 95.3 | 80 | 120 | 1.54 | 15 | |
| Thallium | 0.195 | 0.00150 | 0.200 | 0 | 97.5 | 80 | 120 | 1.38 | 15 | |

| | | |
|--------------------|--|---|
| Qualifiers: | <p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p> | <p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAC certified</p> |
|--------------------|--|---|

CLIENT: B-Environmental
Work Order: 1705216
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170523A

The QC data in batch 80552 applies to the following samples: 1705216-01A

| | | | | | | | | | | |
|-----------|-----------------|-----------|------------------------|----------------|------------------------------|------------|------------------|------|----------|------|
| Sample ID | MB-80552 | Batch ID: | 80552 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | MBLK | Run ID: | ICP-MS4_170523A | Analysis Date: | 5/23/2017 11:12:00 AM | Prep Date: | 5/22/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | <0.0100 | 0.0300 | | | | | | | | |

| | | | | | | | | | | |
|-----------|------------------|-----------|------------------------|----------------|------------------------------|------------|------------------|------|----------|------|
| Sample ID | LCS-80552 | Batch ID: | 80552 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | LCS | Run ID: | ICP-MS4_170523A | Analysis Date: | 5/23/2017 11:14:00 AM | Prep Date: | 5/22/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 0.204 | 0.0300 | 0.200 | 0 | 102 | 80 | 120 | | | |

| | | | | | | | | | | |
|-----------|-------------------|-----------|------------------------|----------------|------------------------------|------------|------------------|-------|----------|------|
| Sample ID | LCSD-80552 | Batch ID: | 80552 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | LCSD | Run ID: | ICP-MS4_170523A | Analysis Date: | 5/23/2017 11:16:00 AM | Prep Date: | 5/22/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 0.205 | 0.0300 | 0.200 | 0 | 103 | 80 | 120 | 0.702 | 15 | |

| | | | | | | | | | | |
|-----------|-----------------------|-----------|------------------------|----------------|------------------------------|------------|------------------|------|----------|------|
| Sample ID | 1705217-03A SD | Batch ID: | 80552 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | SD | Run ID: | ICP-MS4_170523A | Analysis Date: | 5/23/2017 11:22:00 AM | Prep Date: | 5/22/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 3.40 | 1.50 | 0 | 3.18 | | | | 6.88 | 10 | |
| Calcium | 52.2 | 15.0 | 0 | 53.3 | | | | 1.96 | 10 | |
| Sodium | 59.1 | 15.0 | 0 | 60.5 | | | | 2.30 | 10 | |

| | | | | | | | | | | |
|-----------|------------------------|-----------|------------------------|----------------|------------------------------|------------|------------------|------|----------|------|
| Sample ID | 1705217-03A PDS | Batch ID: | 80552 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | PDS | Run ID: | ICP-MS4_170523A | Analysis Date: | 5/23/2017 11:40:00 AM | Prep Date: | 5/22/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 5.30 | 0.300 | 2.00 | 3.18 | 106 | 80 | 120 | | | |
| Calcium | 104 | 3.00 | 50.0 | 53.3 | 102 | 80 | 120 | | | |
| Sodium | 115 | 3.00 | 50.0 | 60.5 | 109 | 80 | 120 | | | |

| | | | | | | | | | | |
|-----------|-----------------------|-----------|------------------------|----------------|------------------------------|------------|------------------|------|----------|------|
| Sample ID | 1705217-03A MS | Batch ID: | 80552 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | MS | Run ID: | ICP-MS4_170523A | Analysis Date: | 5/23/2017 11:42:00 AM | Prep Date: | 5/22/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 3.22 | 0.300 | 0.200 | 3.18 | 22.9 | 80 | 120 | | | S |
| Calcium | 55.9 | 3.00 | 5.00 | 53.3 | 53.0 | 80 | 120 | | | S |
| Sodium | 68.4 | 3.00 | 5.00 | 60.5 | 158 | 80 | 120 | | | S |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705216
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170523A

| Sample ID | 1705217-03A MSD | Batch ID: | 80552 | TestNo: | SW6020A | Units: | mg/L | | | |
|-----------|-----------------|-----------|-----------------|----------------|-----------------------|------------|-----------|-------|----------|------|
| SampType: | MSD | Run ID: | ICP-MS4_170523A | Analysis Date: | 5/23/2017 11:44:00 AM | Prep Date: | 5/22/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 3.27 | 0.300 | 0.200 | 3.18 | 48.0 | 80 | 120 | 1.55 | 15 | S |
| Calcium | 55.8 | 3.00 | 5.00 | 53.3 | 49.9 | 80 | 120 | 0.276 | 15 | S |
| Sodium | 67.2 | 3.00 | 5.00 | 60.5 | 136 | 80 | 120 | 1.67 | 15 | S |

| | | | | |
|--------------------|----|---|-----|---------------------------------------|
| Qualifiers: | B | Analyte detected in the associated Method Blank | DF | Dilution Factor |
| | J | Analyte detected between MDL and RL | MDL | Method Detection Limit |
| | ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| | RL | Reporting Limit | S | Spike Recovery outside control limits |
| | J | Analyte detected between SDL and RL | N | Parameter not NELAC certified |

CLIENT: B-Environmental
Work Order: 1705216
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170523A

The QC data in batch 80556 applies to the following samples: 1705216-01B

| | | | | | | | | | | |
|---------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID MB-80556 | Batch ID: 80556 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: MBLK | Run ID: ICP-MS4_170523A | Analysis Date: 5/23/2017 12:31:00 PM | Prep Date: 5/22/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | <0.00500 | 0.0100 | | | | | | | | |
| Molybdenum | <0.00200 | 0.00500 | | | | | | | | |

| | | | | | | | | | | |
|----------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID LCS-80556 | Batch ID: 80556 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: LCS | Run ID: ICP-MS4_170523A | Analysis Date: 5/23/2017 12:33:00 PM | Prep Date: 5/22/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.203 | 0.0100 | 0.200 | 0 | 101 | 80 | 120 | | | |
| Molybdenum | 0.198 | 0.00500 | 0.200 | 0 | 99.1 | 80 | 120 | | | |

| | | | | | | | | | | |
|-----------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID LCSD-80556 | Batch ID: 80556 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: LCSD | Run ID: ICP-MS4_170523A | Analysis Date: 5/23/2017 12:35:00 PM | Prep Date: 5/22/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.208 | 0.0100 | 0.200 | 0 | 104 | 80 | 120 | 2.70 | 15 | |
| Molybdenum | 0.204 | 0.00500 | 0.200 | 0 | 102 | 80 | 120 | 3.07 | 15 | |

| | | | | | | | | | | |
|---------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1705217-03B SD | Batch ID: 80556 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: SD | Run ID: ICP-MS4_170523A | Analysis Date: 5/23/2017 12:41:00 PM | Prep Date: 5/22/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | <0.0250 | 0.0500 | 0 | 0.00500 | | | | 0 | 10 | |
| Molybdenum | 0.0960 | 0.0250 | 0 | 0.0915 | | | | 4.78 | 10 | |

| | | | | | | | | | | |
|----------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1705217-03B PDS | Batch ID: 80556 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: PDS | Run ID: ICP-MS4_170523A | Analysis Date: 5/23/2017 1:01:00 PM | Prep Date: 5/22/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.192 | 0.0100 | 0.200 | 0.00500 | 93.5 | 80 | 120 | | | |
| Molybdenum | 0.279 | 0.00500 | 0.200 | 0.0915 | 93.7 | 80 | 120 | | | |

| | | | | | | | | | | |
|---------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1705217-03B MS | Batch ID: 80556 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: MS | Run ID: ICP-MS4_170523A | Analysis Date: 5/23/2017 1:03:00 PM | Prep Date: 5/22/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.199 | 0.0100 | 0.200 | 0.00500 | 96.8 | 80 | 120 | | | |
| Molybdenum | 0.299 | 0.00500 | 0.200 | 0.0915 | 104 | 80 | 120 | | | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1705216
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170523A

| Sample ID | 1705217-03B MSD | Batch ID: | 80556 | TestNo: | SW6020A | Units: | mg/L | | | |
|------------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|------|----------|------|
| SampType: | MSD | Run ID: | ICP-MS4_170523A | Analysis Date: | 5/23/2017 1:05:00 PM | Prep Date: | 5/22/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.193 | 0.0100 | 0.200 | 0.00500 | 94.2 | 80 | 120 | 2.62 | 15 | |
| Molybdenum | 0.290 | 0.00500 | 0.200 | 0.0915 | 99.3 | 80 | 120 | 3.10 | 15 | |

| | | | | |
|--------------------|----|---|-----|---------------------------------------|
| Qualifiers: | B | Analyte detected in the associated Method Blank | DF | Dilution Factor |
| | J | Analyte detected between MDL and RL | MDL | Method Detection Limit |
| | ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| | RL | Reporting Limit | S | Spike Recovery outside control limits |
| | J | Analyte detected between SDL and RL | N | Parameter not NBLAC certified |

CLIENT: B-Environmental
Work Order: 1705216
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_170524B

The QC data in batch 80594 applies to the following samples: 1705216-01C

| Sample ID MB-80594 | Batch ID: 80594 | TestNo: M2320 B | Units: mg/L @ pH 4.24 | | | | | | | |
|---------------------------|---------------------------------|---|------------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: MBLK | Run ID: TITRATOR_170524B | Analysis Date: 5/24/2017 10:09:00 AM | Prep Date: 5/24/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|------------------------------------|-------|------|--|--|--|--|--|--|--|--|
| Alkalinity, Bicarbonate (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Total (As CaCO3) | <20.0 | 20.0 | | | | | | | | |

| Sample ID LCS-80594 | Batch ID: 80594 | TestNo: M2320 B | Units: mg/L @ pH 4 | | | | | | | |
|----------------------------|---------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: LCS | Run ID: TITRATOR_170524B | Analysis Date: 5/24/2017 10:13:00 AM | Prep Date: 5/24/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|------------------------------|------|------|-------|---|-----|----|-----|--|--|--|
| Alkalinity, Total (As CaCO3) | 51.8 | 20.0 | 50.00 | 0 | 104 | 74 | 129 | | | |
|------------------------------|------|------|-------|---|-----|----|-----|--|--|--|

| Sample ID 1705217-03C-DUP | Batch ID: 80594 | TestNo: M2320 B | Units: mg/L @ pH 4.51 | | | | | | | |
|----------------------------------|---------------------------------|--|------------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: DUP | Run ID: TITRATOR_170524B | Analysis Date: 5/24/2017 1:17:00 PM | Prep Date: 5/24/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|------------------------------------|-------|------|---|-------|--|--|--|-------|----|--|
| Alkalinity, Bicarbonate (As CaCO3) | 133 | 20.0 | 0 | 133.5 | | | | 0.375 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | 133 | 20.0 | 0 | 133.5 | | | | 0.375 | 20 | |

| Sample ID 1705238-01C-DUP | Batch ID: 80594 | TestNo: M2320 B | Units: mg/L @ pH 4.48 | | | | | | | |
|----------------------------------|---------------------------------|--|------------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: DUP | Run ID: TITRATOR_170524B | Analysis Date: 5/24/2017 2:14:00 PM | Prep Date: 5/24/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|------------------------------------|-------|------|---|-------|--|--|--|---|----|--|
| Alkalinity, Bicarbonate (As CaCO3) | <10.0 | 20.0 | 0 | 10.00 | | | | 0 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | <20.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

2609 North River Road, Port Allen, Louisiana 70767
(800) 401-4277 -- FAX (225) 381-2996



ARS International, LLC

Laboratory Analysis Report

ARS1-17-01443

Prepared for:

B-Environmental

**Kevin Baros
1606 East Brazos Street
Suite D
Victoria, TX 77901**

**dbenviro@suddenlinkmail.com; cbenviro@suddenlinkmail.com
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Fax: 361-572-4115**

Project Manager Review

Management Review

Notes: ARS International, LLC assumes no liability for the use or the interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

Contact Person: Questions regarding this analytical report should be addressed to:

**Project Manager
ProjectManagers@amrad.com**

**Phone: 225.381.2991
Fax: 225.381.2996**



LELAP Cert# 01949



2609 North River Road, Port Allen, Louisiana 70767
 1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01443
 Client Sample ID: S171381625 (BATCH 55518)
 Sample Collection Date: 05/18/17
 Sample Matrix: Aqueous
 Percent Solids: N/A

Request or PO Number: N/A
 ARS Sample ID: ARS1-17-01443-001
 Date Received: 05/23/17
 Report Date: 06/19/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | NDC | DLC | CDRL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.216 | 0.130 | 0.140 | 0.051 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 06/16/17 9:29 | SCAUSEY | 99% |
| Ra-228 | 0.423 | 0.679 | 1.153 | 0.535 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/09/17 12:32 | SCAUSEY | 91% |

Project Manager Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

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QC Results Report

2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

Sample Delivery Group: ARS1-17-01443

Laboratory Control Sample Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | LCS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|----------------------|
| ARS1-B17-01106 | LCS | RA-226 | 27.814 | 4.480 | 0.098 | 27.723 | N/A | pCi/L | ARS-010/EPA 903 | 6/16/17 11:29 | SC | 100 | 75%-125% |
| ARS1-B17-01106 | LCS | RA-228 | 32.901 | 5.513 | 1.063 | 39.784 | N/A | pCi/L | ARS-010/EPA 904 | 6/9/17 14:31 | SC | 83 | 75%-125% |

Blank Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|
| ARS1-B17-01106 | MBL | RA-226 | 0.082 | 0.065 | 0.089 | NA | U | pCi/L | ARS-010/EPA 903 | 6/16/17 11:29 | SC |
| ARS1-B17-01106 | MBL | RA-228 | -0.087 | 0.371 | 0.681 | NA | U | pCi/L | ARS-010/EPA 904 | 6/9/17 14:31 | SC |

RER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | RER | RER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01106 | LCSD | RA-226 | 27.814 | 4.480 | 35.081 | 5.636 | N/A | pCi/L | ARS-010/EPA 903 | 6/16/17 11:29 | SC | 0.72 | < 1 |
| ARS1-B17-01106 | LCSD | RA-228 | 32.901 | 5.513 | 34.717 | 5.792 | N/A | pCi/L | ARS-010/EPA 904 | 6/9/17 14:31 | SC | 0.16 | < 1 |

DER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | DER | DER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01106 | LCSD | RA-226 | 27.814 | 4.480 | 35.081 | 5.636 | N/A | pCi/L | ARS-010/EPA 903 | 6/16/17 11:29 | SC | 1.01 | < 3 |
| ARS1-B17-01106 | LCSD | RA-228 | 32.901 | 5.513 | 34.717 | 5.792 | N/A | pCi/L | ARS-010/EPA 904 | 6/9/17 14:31 | SC | 0.23 | < 3 |

Project Manager Review

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LELAP Certificate# 01949

NELAP Certificate # E87558



2609 North River Road • Port Allen, Louisiana 70767

1 (800) 401-4277 • Fax (225) 381-2996

Notes (Case Narrative):

Comments:

- 1.0) All MDA/MDC values are calculated on a sample specific basis.
- 2.0) Soil and Sludge analysis are reported on a wet basis or an as received basis unless otherwise indicated.
- 3.0) Data in this report are within the limits of uncertainty specified in the reference method unless otherwise specified.
- 4.0) Modified analysis procedures are procedures that are modified to meet the certain specifications. An example may be the use of a water method to analyze a solid matrix due to the lack of an officially recognized procedure for the analysis of the solid matrix. Modified analyses are indicated by the subsequent addition of "m" to the procedure number (i.e. 900.0M).
- 5.0) Total activity is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring radioactive decay chains and other prominent radioactive nuclides. Total activity may be lower than the actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not representative of nuclides that emit solely alpha or beta particles.
- 6.0) Ra-228 is determined via secular equilibrium with its daughter, Actinium 228 (Gamma Spectroscopy only).
- 7.0) U-238 is determined via secular equilibrium with its daughter, Thorium 234 (Gamma Spectroscopy only).
- 8.0) All gamma spectroscopy was performed utilizing high purity germanium detectors (HPGe).
- 9.0) ARS makes every attempt to match sample density to calibrated density; however, in some cases, it is not practical or possible to do so and data results may be affected (Gamma Spectroscopy only).
- 10.0) Gamma spectroscopy results are calculated values based on the ORTEC® GammaVision ENV32 Analysis Engine.
- 11.0) ACLASS DOD and ISO 17025 certification applies only to the following analytes and methods: Gross Alpha and Gross Beta (EPA 900, SM7110B&C, SW846 9310); Radium 226 (EPA 903, EPA 903.1, SM 7500 Ra-B, SW846 9315); Radium 228 (EPA 904, SM 7500 Ra-B SW846 9320); Iodine-131 (EPA 901.1); Uranium by ICPMS (EPA 200.8); Strontium 89/90 (EPA 905, Eichrom SRW01, HASL 300 Sr-03-RC); Tritium (EPA 906, EPA 906M); Gamma Emitters (EPA 901.1, SM7120B, HASL 300 Ga-01-R); Americium-241, Curium 242/244, Plutonium 239/240 and 241, Thorium 228/230/232, Uranium 234/233 and 238 (Eichrom ACW03 VBS); Lead 210 (HASL 300 Pb-01-RC, Eichrom OTW01); Polonium 210 (HASL 300 Po-01-RC, HASL 300 Po-02-RC); Technetium-99 (Eichrom TCW02, Eichrom TCS01M).

Method References:

- 1.0) EPA 600/4-80-032; Prescribed Procedures for the Measurements of Radioactivity in Drinking Water, August 1980.
- 2.0) Standard Methods for the Examination of Water and Wastewater (On-Line Edition)
- 3.0) EPA SW-846; Test Methods for Evaluating Solid Waste, (On-Line edition)
- 4.0) EPA 600/4/79-020; Methods for Chemical Analysis of Water and Waste, March 1983.
- 5.0) HASL 300; The Procedures Manual of the Environmental Measurements Laboratory, Volume I, 28th Edition February, 1997.

Definitions:

| | |
|----------|---|
| CRDL | Contract Required Detection Limit |
| CSU | Combined Standard Uncertainty |
| DLC | Decision Level Concentration (ANSI N42.23) or critical level |
| DO | Duplicate Original |
| DUP | Method Duplicate |
| LCS/LCSD | Laboratory Control Sample/Laboratory Control Sample Duplicate |
| MDA | Minimum Detectable Activity |
| MDC | (Minimum Detectable Concentration) minimum concentration of the analyte that ARS can detect utilizing the specific analysis |
| MBL | Method Blank |
| MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| N/A | Not Applicable |
| NP | Not Provided |
| NR | Not Referenced |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |

Data Qualifiers:

| | |
|----|--|
| B | The analyte is found in both the associated method blank and the sample. This flag indicates probable blank contamination. |
| D | Sample analysis accomplished through dilution. |
| J | The reported result is an estimated value above the limit of detection but outside of quantitation range (e.g., matrix interference was observed). |
| Q | One or more quality control criteria failed (e.g., LCS recovery, surrogate spike recovery, or CCV recovery). |
| U | Activity is below the MDC, MDA, MDL, or LOD |
| N | The analyte is a tentatively identified compound using mass spectrometry or any non-customer requested compounds that are tentatively identified. |
| * | LCS/LCSD or MS/MSD fails RPD criteria. |
| S | Spike |
| SC | Subcontracted out to another qualified laboratory |
| H | Holding time exceeded |

LELAP Cert# 01949

NELAP Cert# E87558

ARS-059-010
Revision: 9.1
Revision Date: 03-14-2017



Chain of Custody Record

Batch # 55578

TEMP UN-C: 14.3

Page ___ of ___

Customer / Report Information
 Name: Colto Creek Pover
 Attention: Rick Coleman
 Address: [Blank]
 PO#: [Blank]

Billing Information
 Address: [Blank]
 Attention: [Blank]
 Project: CCR Sample
 Comments: [Blank]
 Check box if Billing is the same as Report Information:

Phone: 361-788-5145
 EMAIL: Richard.Coleman@benven.com
 Requested Analysis: B C A E D F

Therm ID # 3
 Temp Corr: 14.1
 Completed By Laboratory: [Blank]

| Client / Field Sample ID | Collected | | Matrix | Container | TYPE | NUMBER | SIZE | Preservative | Custody Seals Present | | |
|--------------------------|-----------|--------|--------|-----------|------|--------|------|---|---|--|-----------------------------|
| | Date | Time | | | | | | | | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| NV-11 Catch Up Sample | 5/18/17 | 13:48G | W | P | 6 | 500 | IL | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE <input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | Metals Cl, F, SO4 PH TDS Ra ²²⁶ /Ra ²²⁸ AIK - Total Carb Bicarb Diss. Li + NO | S177381625 |
| | | | | | | | | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE <input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | <input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | | |
| | | | | | | | | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE <input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | <input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | | |
| | | | | | | | | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE <input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | <input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | | |

Required Turnaround: Routine (6-10 Business Days) Expedite / Rush: 1 Business Day 2 Business Days 3 Business Days 5 Business Days Other

Surcharge will apply to RUSH TAT Authorized By: [Signature]

Relinquished By: [Signature] Date: 5-18-17 Time: 16:20

Relinquished By: [Signature] Date: [Blank] Time: [Blank]

Relinquished By: [Signature] Date: [Blank] Time: [Blank]

Container Type: P=Plastic, G=Glass, Y=VOA, O=Other Carrier ID: [Blank]

REMARKS: [Blank]

1606 E Brazos Suite D, Victoria, Texas 77901 Ph. (361) 572-8224 Fax (361) 572-4115 Toll Free 1-800-460-8223 Form #1000.0-2 REV 1.2 Email: kbenviro@suddenlinkmail.com www.benvenvironmental.net

Fluoride: 0.25mg/L; Metals: B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, Mg, K, Na, & Hg

BatchNo: 56264

SAMPLE REPORT



T104704328-17-14

Business

Coletto Creek Power - R Coleman
PO Box 8
Fannin TX 77960
Att: Rick Coleman



Laboratory

B Environmental, LLC.
1606 E Brazos, Suite D
Victoria TX 77901
ph. 361-572-8224

Reference Information

Project: CCR Sampling
Printed: Wednesday,
July 12, 2017

Re: Coletto Creek Power - R Coleman

Dear: Rick Coleman

Attached are the results for sample(s) received on 6/7/2017

The analytical results relate only to the samples tested.
All supporting quality data meets the requirements of NELAC unless noted in the case narrative section of the report.

This report contains 44 pages (including the cover page)

If you have any questions concerning this report, please do not hesitate to call (361) 572-8224 or Fax us at (361) 572-4115

Respectfully Submitted,

Kevin Baros

Laboratory Director



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Batch No: 56264

Sample Receipt Checklist

Date Received: 6/7/2017

Project: CCR Sampling Received By: Woodruff

Login completed by: Woodruff 6/7/2017

Signature LoginDate:

Carrier Name Walk In

- Shipping container/cooler in good condition? YES NO Not Present
- Custody seals intact on shipping container/cooler? YES NO Not Present
- Custody seals intact on sample bottles? YES NO Not Present
- Chain of Custody present? YES NO
- Chain of Custody signed when relinquished and received YES NO
- Chain of Custody agrees with sample labels? YES NO
- Samples in proper container/bottles? YES NO
- Sample containers intact? YES NO
- Sufficient sample volume for indicated tests? YES NO
- All samples received within holding times? YES NO
- Container/Temp Blank - temperature in compliance? YES NO >0 <6 °C On Ice
- Water - VOA vials have zero headspace? Bubble < 6mm? YES NO No VOA Vials submitted
- Water - pH acceptable upon receipt? YES NO Not Applicable

*TEMP 4.9/4.7 pH Adjusted? No Checked By L. Vahrenkamp

Any No and/or N/A (not applicable) response must be detailed in the comments section below.

Client contacted PersonContacted

Contacted by: Date Contacted:

Regarding

Comments

Therm #3. HNO3 Lot # 2-42-12. pH Paper Lot # 2-25-6.

Corrective Action



Sample Report Information



| | | | | | |
|------------|------------|------------|-------|----------|--------|
| Sample ID: | S171581725 | Client ID: | Dup 2 | Sampler: | Client |
|------------|------------|------------|-------|----------|--------|

Client: **Coletto Creek Power - R Coleman**
Study: **Water**

Batch No: **56264**
Sampled: **6/7/2017 12:00 AM**

Project: **CCR Sampling**

Location: **Dup**

Type: **Grab**

Notes:

Matrix: **Water**

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|-------------------------------------|-------|-------------------------------|
| - Chloride, IC | 67 | mg/L | EPA 300 | K Baros | 6/13/2017 0:53 | 1 | 1 | | <input type="checkbox"/> | | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 138 | mg/L | SM 2320 B | | 6/14/2017 13:00 | 10 | 10 | | <input checked="" type="checkbox"/> | | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/14/2017 13:00 | 10 | 10 | | <input checked="" type="checkbox"/> | | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 138 | mg/L | SM 2320 B | | 6/14/2017 13:00 | 10 | 10 | | <input checked="" type="checkbox"/> | | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 1.28 | mg/L | EPA 300 | K Baros | 6/13/2017 0:53 | 0.25 | 0.25 | | <input type="checkbox"/> | | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.38 | SU | SM 4500-H+B | C Watts | 6/7/2017 16:30 | | | | <input type="checkbox"/> | | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 382 | mg/L | SM2540C | C Watts | 6/13/2017 15:30 | 25 | 25 | | <input type="checkbox"/> | | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 6/13/2017 13:35 | | | | <input checked="" type="checkbox"/> | | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 57 | mg/L | EPA 300 | K Baros | 6/13/2017 0:53 | 1 | 1 | | <input type="checkbox"/> | | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/7/2017 7:55 | | | | <input checked="" type="checkbox"/> | | ARS International |



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BatchNo: 56264

Victoria TX 77901

Sample Report Information



| | | | | | |
|------------|------------|------------|------|----------|--------|
| Sample ID: | S17158172A | Client ID: | MW-6 | Sampler: | Client |
|------------|------------|------------|------|----------|--------|

Client: **Coletto Creek Power - R Coleman**
 Study: **Water**
 Project: **CCR Sampling**
 Location: **MW #6**
 Notes:

Batch No: **56264**
 Sampled: **6/7/2017 10:43 AM**
 Type: **Grab**
 Matrix: **Water**

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 70 | mg/L | EPA 300 | K Baros | 6/12/2017 19:10 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 182 | mg/L | SM 2320 B | | 6/14/2017 13:07 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/14/2017 13:07 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 182 | mg/L | SM 2320 B | | 6/14/2017 13:07 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.37 | mg/L | EPA 300 | K Baros | 6/12/2017 19:10 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.21 | SU | SM 4500-H+B | C Watts | 6/7/2017 16:30 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 492 | mg/L | SM2540C | C Watts | 6/13/2017 15:30 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 6/13/2017 13:37 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 103 | mg/L | EPA 300 | K Baros | 6/12/2017 19:10 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/7/2017 7:55 | | | | | | <input checked="" type="checkbox"/> ARS International |



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Sample Report Information



| | | | | | |
|------------|-------------------|------------|-------------|----------|---------------|
| Sample ID: | S17158172B | Client ID: | MW-7 | Sampler: | Client |
|------------|-------------------|------------|-------------|----------|---------------|

Client: **Coletto Creek Power - R Coleman**

Study: **Water**

Batch No: **56264**

Sampled: **6/7/2017**

1:00 PM

Project: **CCR Sampling**

Location: **MW #7**

Type: **Grab**

Matrix: **Water**

Notes:

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| .- Chloride, IC | 90 | mg/L | EPA 300 | K Baros | 6/12/2017 19:49 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 253 | mg/L | SM 2320 B | | 6/14/2017 13:16 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/14/2017 13:16 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 253 | mg/L | SM 2320 B | | 6/14/2017 13:16 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.6 | mg/L | EPA 300 | K Baros | 6/12/2017 19:49 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7 | SU | SM 4500-H+B | C Watts | 6/7/2017 16:30 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 574 | mg/L | SM2540C | C Watts | 6/13/2017 15:30 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 6/13/2017 13:32 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 74 | mg/L | EPA 300 | K Baros | 6/12/2017 19:49 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/7/2017 7:55 | | | | | | <input checked="" type="checkbox"/> ARS International |



Sample Report Information



| | | | | | |
|------------|-------------------|------------|-------------|----------|---------------|
| Sample ID: | S17158172C | Client ID: | BV-5 | Sampler: | Client |
|------------|-------------------|------------|-------------|----------|---------------|

Client: **Coletto Creek Power - R Coleman**
Study: **Water**

Batch No: **56264**
Sampled: **6/7/2017 7:53 AM**

Project: **CCR Sampling**

Location: **BV-5**

Type: **Grab**

Notes:

Matrix: **Water**

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 109 | mg/L | EPA 300 | K Baros | 6/12/2017 21:43 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 362 | mg/L | SM 2320 B | | 6/14/2017 13:38 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/14/2017 13:38 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 362 | mg/L | SM 2320 B | | 6/14/2017 13:38 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.56 | mg/L | EPA 300 | K Baros | 6/12/2017 21:43 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.02 | SU | SM 4500-H+B | C Watts | 6/7/2017 16:30 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 810 | mg/L | SM2540C | C Watts | 6/13/2017 15:30 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 6/13/2017 13:39 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 147 | mg/L | EPA 300 | K Baros | 6/12/2017 21:43 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/7/2017 7:55 | | | | | | <input checked="" type="checkbox"/> ARS International |



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BatchNo: 56264

Victoria TX 77901

Sample Report Information



| | | | | | |
|------------|-------------------|------------|-------------|----------|---------------|
| Sample ID: | S17158172D | Client ID: | PS-3 | Sampler: | Client |
|------------|-------------------|------------|-------------|----------|---------------|

Client: **Coletto Creek Power - R Coleman**
Study: **Water**

Batch No: **56264**
Sampled: **6/7/2017 8:46 AM**

Project: **CCR Sampling**

Location: **PS-3**

Type: **Grab**

Notes:

Matrix: **Water**

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 44 | mg/L | EPA 300 | K Baros | 6/12/2017 22:21 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 150 | mg/L | SM 2320 B | | 6/14/2017 13:44 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/14/2017 13:44 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 150 | mg/L | SM 2320 B | | 6/14/2017 13:44 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.96 | mg/L | EPA 300 | K Baros | 6/12/2017 22:21 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.34 | SU | SM 4500-H+B | C Watts | 6/7/2017 16:30 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 336 | mg/L | SM2540C | C Watts | 6/13/2017 15:30 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 6/13/2017 13:40 | | | | | | <input checked="" type="checkbox"/> PCS Cert No. T104704361-08 |
| Sulfate, IC | 44 | mg/L | EPA 300 | K Baros | 6/12/2017 22:21 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/7/2017 7:55 | | | | | | <input checked="" type="checkbox"/> ARS International |



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BatchNo: 56264

Sample Report Information



| | | | | | |
|------------|-------------------|------------|--------------|----------|---------------|
| Sample ID: | S17158172E | Client ID: | MW-11 | Sampler: | Client |
|------------|-------------------|------------|--------------|----------|---------------|

Client: **Coletto Creek Power - R Coleman**
 Study: **Water**

Batch No: **56264**
 Sampled: **6/7/2017 9:15 AM**

Project: **CCR Sampling**

Location: **MW #11**

Type: **Grab**
 Matrix: **Water**

Notes:

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 48 | mg/L | EPA 300 | K Baros | 6/12/2017 22:59 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 148 | mg/L | SM 2320 B | | 6/14/2017 13:50 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/14/2017 13:50 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 148 | mg/L | SM 2320 B | | 6/14/2017 13:50 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.93 | mg/L | EPA 300 | K Baros | 6/12/2017 22:59 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.38 | SU | SM 4500-H+B | C Watts | 6/7/2017 16:30 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 372 | mg/L | SM2540C | C Watts | 6/13/2017 15:30 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 6/13/2017 13:42 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 50 | mg/L | EPA 300 | K Baros | 6/12/2017 22:59 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/7/2017 7:55 | | | | | | <input checked="" type="checkbox"/> ARS International |



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BatchNo: 56264

Victoria TX 77901

Sample Report Information



| | | | | | |
|-------------------|-------------------|-------------------|-------------|-----------------|---------------|
| Sample ID: | S17158172F | Client ID: | MW-9 | Sampler: | Client |
|-------------------|-------------------|-------------------|-------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman
Study: Water
Project: CCR Sampling
Location: MW #9
Notes:

Batch No: 56264
Sampled: 6/7/2017 1:37 PM
Type: Grab
Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| .- Chloride, IC | 67 | mg/L | EPA 300 | K Baros | 6/12/2017 23:37 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 140 | mg/L | SM 2320 B | | 6/14/2017 13:56 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/14/2017 13:56 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 140 | mg/L | SM 2320 B | | 6/14/2017 13:56 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 1.26 | mg/L | EPA 300 | K Baros | 6/12/2017 23:37 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.45 | SU | SM 4500-H+B | C Watts | 6/7/2017 16:30 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 380 | mg/L | SM2540C | C Watts | 6/13/2017 15:30 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 6/13/2017 13:44 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 57 | mg/L | EPA 300 | K Baros | 6/12/2017 23:37 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/7/2017 7:55 | | | | | | <input checked="" type="checkbox"/> ARS International |



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BatchNo: 56264

Victoria TX 77901

Sample Report Information



| | | | | | |
|------------|------------|------------|-------|----------|--------|
| Sample ID: | S17158172G | Client ID: | MW-9A | Sampler: | Client |
|------------|------------|------------|-------|----------|--------|

Client: Coletto Creek Power - R Coleman
Study: Water

Batch No: 56264
Sampled: 6/7/2017 2:19 PM

Project: CCR Sampling

Location: MW 9A

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 63 | mg/L | EPA 300 | K Baros | 6/13/2017 0:15 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 140 | mg/L | SM 2320 B | | 6/14/2017 14:08 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/14/2017 14:08 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 140 | mg/L | SM 2320 B | | 6/14/2017 14:08 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 1.28 | mg/L | EPA 300 | K Baros | 6/13/2017 0:15 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.44 | SU | SM 4500-H+B | C Watts | 6/7/2017 16:30 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 390 | mg/L | SM2540C | C Watts | 6/13/2017 15:30 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 6/13/2017 13:46 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 65 | mg/L | EPA 300 | K Baros | 6/13/2017 0:15 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/7/2017 7:55 | | | | | | <input checked="" type="checkbox"/> ARS International |



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QA Summary Report

| Parameter | ID | Result | Ref Value | Amt Added | LOQ | Qualifier | Control | Flag | Comments |
|--|------------|-----------|-----------|-----------|------|----------------|----------------|------|---|
| .Method Blank | | | | | | | | | |
| - Chloride, IC 6/12/2017 20:27 | Q171731033 | <1mg/L | 0 | | 1 | | 1 | | Blank Acceptable. |
| Fluoride, IC 6/12/2017 20:27 | Q171731033 | <0.25mg/L | 0 | | 0.25 | | 0.25 | | Blank Acceptable. |
| Solids, Total Dissolved 6/13/2017 15:30 | Q171650908 | <25mg/L | 0 | | 10 | | 25 | | Blank Acceptable. |
| Sulfate, IC 6/12/2017 20:27 | Q171731033 | <1mg/L | 0 | | 1 | | 1 | | Blank Acceptable. |
| Duplicate | | | | | | | | | |
| pH (Standard Units) 6/7/2017 16:30 | Q171600921 | 7.05SU | 7 | | 2 | 0.7% | 20 | | Duplicate RPD Acceptable. |
| Solids, Total Dissolved 6/13/2017 15:30 | Q171650910 | 572mg/L | 574 | | 10 | 0.3% | 20 | | Duplicate RPD Acceptable. |
| Laboratory Control Standard | | | | | | | | | |
| - Chloride, IC 6/12/2017 20:27 | Q171731034 | 25.59mg/L | 25 | | 1 | 102.4% 2.3% | 80 - 120 20 | | Standard Recovery Acceptable. Standard RPD Acceptable. |
| Fluoride, IC 6/12/2017 20:27 | Q171731034 | 2.02mg/L | 2 | | 0.25 | 101.0% 1.0% | 80 - 120 20 | | Standard Recovery Acceptable. Standard RPD Acceptable. |
| pH (Standard Units) 6/7/2017 16:30 | Q171600920 | 7.03SU | 7 | | 2 | 100.4% 0.4% | 80 - 120 20 | | Standard Recovery Acceptable. Standard RPD Acceptable. |
| Sulfate, IC 6/12/2017 20:27 | Q171731034 | 25.8mg/L | 25 | | 1 | 103.2% 3.1% | 80 - 120 20 | | Standard Recovery Acceptable. Standard RPD Acceptable. |
| Matrix Spike | | | | | | | | | |
| - Chloride, IC 6/12/2017 20:27 | Q17173103C | 107mg/L | 106 | 25 | 1 | 104.0% 0.9% | 80 - 120 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Fluoride, IC 6/12/2017 20:27 | Q17173103C | 2.42mg/L | 2.6 | 2 | 0.25 | 91.0% 7.2% | 80 - 120 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Sulfate, IC 6/12/2017 20:27 | Q17173103C | 92mg/L | 92 | 25 | 1 | 100.0% 0.0% | 70 - 130 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Matrix Spike Dup | | | | | | | | | |
| - Chloride, IC 6/12/2017 21:05 | Q17173103D | 107mg/L | 106 | 25 | 1 | 104.0% 0.9% | 80 - 120 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Fluoride, IC 6/12/2017 21:05 | Q17173103D | 2.43mg/L | 2.6 | 2 | 0.25 | 91.5% 6.8% | 80 - 120 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Sulfate, IC 6/12/2017 21:05 | Q17173103D | 92mg/L | 92 | 25 | 1 | 100.0% 0.0% | 70 - 130 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |



Flag and Qualifier Legend



Negative - Result Detected

MDL = Method Detection Limit

DF = Dilution Factor



Caution - Problem Detected

LOQ = Limit of Quantitation

j = Analyte detected between MDL and LOQ



Warning - Null Value

S = surrogate standard out of limit

H = sample out of hold time



MS, MSD, RPD- Failure may occur due to matrix interference, data released per QA plan

Wednesday, July 12, 2017

B Environmental - LDMS QA Report Summary

Note:

THANK YOU!



DHL Analytical, Inc.

Date: 19-Jun-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Lab Order: 1706105

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition and Standard Methods.

For Metals analysis by method SW6020A the dissolved Lithium and/or Molybdenum results were slightly higher than the total Lithium and/or Molybdenum results for all samples. These are within the acceptable variation limits. No further corrective actions were taken.

All method blanks, sample duplicates, laboratory spikes, and/or matrix spikes met quality assurance objectives except where noted in the following. For Total Metals analysis by method SW6020A (batch 80851) the matrix spike and matrix spike duplicate recoveries were out of control limits for a total of three analytes. These are flagged accordingly in the enclosed QC summary report. The "S" flag denotes spike recovery was outside control limits. The LCS was within control limits for these analytes. No further corrective actions were taken.

For Total Metals analysis by method SW6020A (batch 80851) the RPD for the serial dilution was above control limits for Boron. This is flagged accordingly. The PDS was within control limits for this analyte. No further corrective actions were taken.

DHL Analytical, Inc.

Date: 19-Jun-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR (56264)
Lab Order: 1706105

Client Sample ID: Dup 2
Lab ID: 1706105-01
Alternate ID: S171581725
Collection Date: 06/07/17
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|---------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: CVD | | | |
| Dissolved Lithium | <0.00500 | 0.00500 | 0.0100 | | mg/L | 1 | 06/12/17 02:29 PM |
| Dissolved Molybdenum | 0.0919 | 0.00200 | 0.00500 | | mg/L | 1 | 06/12/17 02:29 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: CVD | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 06/13/17 01:35 PM |
| Arsenic | 0.00911 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:35 PM |
| Barium | 0.0965 | 0.00300 | 0.0100 | | mg/L | 1 | 06/13/17 01:35 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 01:35 PM |
| Boron | 2.99 | 0.100 | 0.300 | | mg/L | 10 | 06/13/17 12:11 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 01:35 PM |
| Calcium | 51.2 | 1.00 | 3.00 | | mg/L | 10 | 06/13/17 12:11 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:35 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 06/13/17 01:35 PM |
| Lead | 0.000482 | 0.000300 | 0.00100 | J | mg/L | 1 | 06/13/17 01:35 PM |
| Lithium | <0.00500 | 0.00500 | 0.0100 | | mg/L | 1 | 06/13/17 01:35 PM |
| Magnesium | 6.75 | 0.100 | 0.300 | | mg/L | 1 | 06/13/17 01:35 PM |
| Molybdenum | 0.0911 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:35 PM |
| Potassium | 0.887 | 0.100 | 0.300 | | mg/L | 1 | 06/13/17 01:35 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:35 PM |
| Sodium | 61.9 | 1.00 | 3.00 | | mg/L | 10 | 06/13/17 12:11 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 06/13/17 01:35 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 06/12/17 03:04 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 138 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 06/14/17 01:00 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 06/14/17 01:00 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 06/14/17 01:00 PM |
| Alkalinity, Total (As CaCO3) | 138 | 20.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 06/14/17 01:00 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 19-Jun-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR (56264)
Lab Order: 1706105

Client Sample ID: MW-6
Lab ID: 1706105-02
Alternate ID: S17158172A
Collection Date: 06/07/17 10:43 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | | | | Analyst: CVD |
| Dissolved Lithium | 0.00884 | 0.00500 | 0.0100 | J | mg/L | 1 | 06/12/17 02:31 PM |
| Dissolved Molybdenum | 0.00980 | 0.00200 | 0.00500 | | mg/L | 1 | 06/12/17 02:31 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | | | | Analyst: CVD |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 06/13/17 01:37 PM |
| Arsenic | 0.00772 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:37 PM |
| Barium | 0.0798 | 0.00300 | 0.0100 | | mg/L | 1 | 06/13/17 01:37 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 01:37 PM |
| Boron | 1.80 | 0.100 | 0.300 | | mg/L | 10 | 06/13/17 12:13 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 01:37 PM |
| Calcium | 73.8 | 1.00 | 3.00 | | mg/L | 10 | 06/13/17 12:13 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:37 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 06/13/17 01:37 PM |
| Lead | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 01:37 PM |
| Lithium | 0.00950 | 0.00500 | 0.0100 | J | mg/L | 1 | 06/13/17 01:37 PM |
| Magnesium | 8.95 | 0.100 | 0.300 | | mg/L | 1 | 06/13/17 01:37 PM |
| Molybdenum | 0.00949 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:37 PM |
| Potassium | 0.829 | 0.100 | 0.300 | | mg/L | 1 | 06/13/17 01:37 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:37 PM |
| Sodium | 70.5 | 1.00 | 3.00 | | mg/L | 10 | 06/13/17 12:13 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 06/13/17 01:37 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | | | Analyst: AH |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 06/12/17 03:06 PM |
| ALKALINITY | | M2320 B | | | | | Analyst: BTJ |
| Alkalinity, Bicarbonate (As CaCO3) | 182 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/14/17 01:07 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/14/17 01:07 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/14/17 01:07 PM |
| Alkalinity, Total (As CaCO3) | 182 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/14/17 01:07 PM |

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds TCLP Maximum Concentration Level | B Analyte detected in the associated Method Blank |
| | C Sample Result or QC discussed in the Case Narrative | DF Dilution Factor |
| | E TPH pattern not Gas or Diesel Range Pattern | J Analyte detected between MDL and RL |
| | MDL Method Detection Limit | ND Not Detected at the Method Detection Limit |
| | RL Reporting Limit | S Spike Recovery outside control limits |

DHL Analytical, Inc.

Date: 19-Jun-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (56264)
Lab Order: 1706105

Client Sample ID: MW-7
Lab ID: 1706105-03
Alternate ID: S17158172B
Collection Date: 06/07/17 01:00 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|------|----------------|----|---------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | | | | Analyst: CVD |
| Dissolved Lithium | 0.00999 | 0.00500 | 0.0100 | J | mg/L | 1 | 06/12/17 02:24 PM |
| Dissolved Molybdenum | 0.00916 | 0.00200 | 0.00500 | | mg/L | 1 | 06/12/17 02:24 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | | | | Analyst: CVD |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 06/13/17 01:32 PM |
| Arsenic | 0.00944 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:32 PM |
| Barium | 0.0891 | 0.00300 | 0.0100 | | mg/L | 1 | 06/13/17 01:32 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 01:32 PM |
| Boron | 0.884 | 0.100 | 0.300 | | mg/L | 10 | 06/13/17 12:07 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 01:32 PM |
| Calcium | 69.3 | 1.00 | 3.00 | | mg/L | 10 | 06/13/17 12:07 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:32 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 06/13/17 01:32 PM |
| Lead | 0.000470 | 0.000300 | 0.00100 | J | mg/L | 1 | 06/13/17 01:32 PM |
| Lithium | 0.00998 | 0.00500 | 0.0100 | J | mg/L | 1 | 06/13/17 01:32 PM |
| Magnesium | 10.2 | 0.100 | 0.300 | | mg/L | 1 | 06/13/17 01:32 PM |
| Molybdenum | 0.00958 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:32 PM |
| Potassium | 1.25 | 0.100 | 0.300 | | mg/L | 1 | 06/13/17 01:32 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:32 PM |
| Sodium | 110 | 1.00 | 3.00 | | mg/L | 10 | 06/13/17 12:07 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 06/13/17 01:32 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | | | Analyst: AH |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 06/12/17 03:08 PM |
| ALKALINITY | | M2320 B | | | | | Analyst: BTJ |
| Alkalinity, Bicarbonate (As CaCO3) | 253 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/14/17 01:16 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/14/17 01:16 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/14/17 01:16 PM |
| Alkalinity, Total (As CaCO3) | 253 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/14/17 01:16 PM |

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds TCLP Maximum Concentration Level | B Analyte detected in the associated Method Blank |
| | C Sample Result or QC discussed in the Case Narrative | DF Dilution Factor |
| | E TPH pattern not Gas or Diesel Range Pattern | J Analyte detected between MDL and RL |
| | MDL Method Detection Limit | ND Not Detected at the Method Detection Limit |
| | RL Reporting Limit | S Spike Recovery outside control limits |

DHL Analytical, Inc.

Date: 19-Jun-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR (56264)
Lab Order: 1706105

Client Sample ID: BV-5
Lab ID: 1706105-04
Alternate ID: S17158172C
Collection Date: 06/07/17 07:53 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|--------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: CVD | | | |
| Dissolved Lithium | 0.0192 | 0.00500 | 0.0100 | | mg/L | 1 | 06/12/17 02:33 PM |
| Dissolved Molybdenum | 0.0102 | 0.00200 | 0.00500 | | mg/L | 1 | 06/12/17 02:33 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: CVD | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 06/13/17 01:39 PM |
| Arsenic | 0.00829 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:39 PM |
| Barium | 0.0376 | 0.00300 | 0.0100 | | mg/L | 1 | 06/13/17 01:39 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 01:39 PM |
| Boron | 1.11 | 0.100 | 0.300 | | mg/L | 10 | 06/13/17 12:14 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 01:39 PM |
| Calcium | 88.8 | 1.00 | 3.00 | | mg/L | 10 | 06/13/17 12:14 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:39 PM |
| Cobalt | 0.0483 | 0.00300 | 0.00500 | | mg/L | 1 | 06/13/17 01:39 PM |
| Lead | 0.000660 | 0.000300 | 0.00100 | J | mg/L | 1 | 06/13/17 01:39 PM |
| Lithium | 0.0207 | 0.00500 | 0.0100 | | mg/L | 1 | 06/13/17 01:39 PM |
| Magnesium | 17.1 | 0.100 | 0.300 | | mg/L | 1 | 06/13/17 01:39 PM |
| Molybdenum | 0.0100 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:39 PM |
| Potassium | 0.179 | 0.100 | 0.300 | J | mg/L | 1 | 06/13/17 01:39 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:39 PM |
| Sodium | 171 | 1.00 | 3.00 | | mg/L | 10 | 06/13/17 12:14 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 06/13/17 01:39 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 06/12/17 03:19 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 362 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 06/14/17 01:38 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 06/14/17 01:38 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 06/14/17 01:38 PM |
| Alkalinity, Total (As CaCO3) | 362 | 20.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 06/14/17 01:38 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 19-Jun-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (56264)
Lab Order: 1706105

Client Sample ID: MW-11
Lab ID: 1706105-06
Alternate ID: S17158172E
Collection Date: 06/07/17 09:15 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|------|----------------|----|---------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | | | | Analyst: CVD |
| Dissolved Lithium | 0.0129 | 0.00500 | 0.0100 | | mg/L | 1 | 06/12/17 02:36 PM |
| Dissolved Molybdenum | 0.00800 | 0.00200 | 0.00500 | | mg/L | 1 | 06/12/17 02:36 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | | | | Analyst: CVD |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 06/13/17 01:42 PM |
| Arsenic | 0.0175 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:42 PM |
| Barium | 0.0835 | 0.00300 | 0.0100 | | mg/L | 1 | 06/13/17 01:42 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 01:42 PM |
| Boron | 1.23 | 0.100 | 0.300 | | mg/L | 10 | 06/13/17 12:18 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 01:42 PM |
| Calcium | 59.8 | 1.00 | 3.00 | | mg/L | 10 | 06/13/17 12:18 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:42 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 06/13/17 01:42 PM |
| Lead | 0.00171 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 01:42 PM |
| Lithium | 0.0137 | 0.00500 | 0.0100 | | mg/L | 1 | 06/13/17 01:42 PM |
| Magnesium | 4.13 | 0.100 | 0.300 | | mg/L | 1 | 06/13/17 01:42 PM |
| Molybdenum | 0.00744 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:42 PM |
| Potassium | 1.44 | 0.100 | 0.300 | | mg/L | 1 | 06/13/17 01:42 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:42 PM |
| Sodium | 62.7 | 1.00 | 3.00 | | mg/L | 10 | 06/13/17 12:18 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 06/13/17 01:42 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | | | Analyst: AH |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 06/12/17 03:24 PM |
| ALKALINITY | | M2320 B | | | | | Analyst: BTJ |
| Alkalinity, Bicarbonate (As CaCO3) | 148 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/14/17 01:50 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/14/17 01:50 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/14/17 01:50 PM |
| Alkalinity, Total (As CaCO3) | 148 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/14/17 01:50 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 19-Jun-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (56264)
Lab Order: 1706105

Client Sample ID: MW-9
Lab ID: 1706105-07
Alternate ID: S17158172F
Collection Date: 06/07/17 01:37 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|------|---------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | | | | Analyst: CVD |
| Dissolved Lithium | 0.00535 | 0.00500 | 0.0100 | J | mg/L | 1 | 06/12/17 02:38 PM |
| Dissolved Molybdenum | 0.0912 | 0.00200 | 0.00500 | | mg/L | 1 | 06/12/17 02:38 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | | | | Analyst: CVD |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 06/13/17 01:44 PM |
| Arsenic | 0.00930 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:44 PM |
| Barium | 0.100 | 0.00300 | 0.0100 | | mg/L | 1 | 06/13/17 01:44 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 01:44 PM |
| Boron | 3.12 | 0.100 | 0.300 | | mg/L | 10 | 06/13/17 12:20 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 01:44 PM |
| Calcium | 52.0 | 1.00 | 3.00 | | mg/L | 10 | 06/13/17 12:20 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:44 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 06/13/17 01:44 PM |
| Lead | 0.000595 | 0.000300 | 0.00100 | J | mg/L | 1 | 06/13/17 01:44 PM |
| Lithium | 0.00519 | 0.00500 | 0.0100 | J | mg/L | 1 | 06/13/17 01:44 PM |
| Magnesium | 6.84 | 0.100 | 0.300 | | mg/L | 1 | 06/13/17 01:44 PM |
| Molybdenum | 0.0926 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:44 PM |
| Potassium | 0.922 | 0.100 | 0.300 | | mg/L | 1 | 06/13/17 01:44 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:44 PM |
| Sodium | 63.1 | 1.00 | 3.00 | | mg/L | 10 | 06/13/17 12:20 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 06/13/17 01:44 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | | | Analyst: AH |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 06/12/17 03:26 PM |
| ALKALINITY | | M2320 B | | | | | Analyst: BTJ |
| Alkalinity, Bicarbonate (As CaCO3) | 140 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 06/14/17 01:56 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 06/14/17 01:56 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 06/14/17 01:56 PM |
| Alkalinity, Total (As CaCO3) | 140 | 20.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 06/14/17 01:56 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 19-Jun-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (56264)
Lab Order: 1706105

Client Sample ID: MW-9A
Lab ID: 1706105-08
Alternate ID: S17158172G
Collection Date: 06/07/17 02:19 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | | | | Analyst: CVD |
| Dissolved Lithium | 0.00641 | 0.00500 | 0.0100 | J | mg/L | 1 | 06/12/17 02:40 PM |
| Dissolved Molybdenum | 0.0799 | 0.00200 | 0.00500 | | mg/L | 1 | 06/12/17 02:40 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | | | | Analyst: CVD |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 06/13/17 01:46 PM |
| Arsenic | 0.00944 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:46 PM |
| Barium | 0.0930 | 0.00300 | 0.0100 | | mg/L | 1 | 06/13/17 01:46 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 01:46 PM |
| Boron | 3.32 | 0.100 | 0.300 | | mg/L | 10 | 06/13/17 12:21 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 01:46 PM |
| Calcium | 67.5 | 1.00 | 3.00 | | mg/L | 10 | 06/13/17 12:21 PM |
| Chromium | 0.00217 | 0.00200 | 0.00500 | J | mg/L | 1 | 06/13/17 01:46 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 06/13/17 01:46 PM |
| Lead | 0.00103 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 01:46 PM |
| Lithium | 0.00573 | 0.00500 | 0.0100 | J | mg/L | 1 | 06/13/17 01:46 PM |
| Magnesium | 8.32 | 0.100 | 0.300 | | mg/L | 1 | 06/13/17 01:46 PM |
| Molybdenum | 0.0779 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:46 PM |
| Potassium | 0.791 | 0.100 | 0.300 | | mg/L | 1 | 06/13/17 01:46 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:46 PM |
| Sodium | 63.3 | 1.00 | 3.00 | | mg/L | 10 | 06/13/17 12:21 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 06/13/17 01:46 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | | | Analyst: AH |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 06/12/17 03:28 PM |
| ALKALINITY | | M2320 B | | | | | Analyst: BTJ |
| Alkalinity, Bicarbonate (As CaCO3) | 140 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/14/17 02:08 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/14/17 02:08 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/14/17 02:08 PM |
| Alkalinity, Total (As CaCO3) | 140 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/14/17 02:08 PM |

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 19-Jun-17

CLIENT: B-Environmental
Work Order: 1706105
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_170612A

The QC data in batch 80868 applies to the following samples: 1706105-01A, 1706105-02A, 1706105-03A, 1706105-04A, 1706105-05A, 1706105-06A, 1706105-07A, 1706105-08A

| | | | | | | | | | | |
|---------------------------|----------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID MB-80868 | Batch ID: 80868 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: MBLK | Run ID: CETAC2_HG_170612A | Analysis Date: 6/12/2017 2:52:41 PM | Prep Date: 6/12/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | <0.0000800 | 0.000200 | | | | | | | | |

| | | | | | | | | | | |
|----------------------------|----------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID LCS-80868 | Batch ID: 80868 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: LCS | Run ID: CETAC2_HG_170612A | Analysis Date: 6/12/2017 2:54:57 PM | Prep Date: 6/12/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | 0.00212 | 0.000200 | 0.00200 | 0 | 106 | 85 | 115 | | | |

| | | | | | | | | | | |
|-----------------------------|----------------------------------|--|-----------------------------|---------|------|----------|-----------|-------|----------|------|
| Sample ID LCSD-80868 | Batch ID: 80868 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: LCSD | Run ID: CETAC2_HG_170612A | Analysis Date: 6/12/2017 2:57:13 PM | Prep Date: 6/12/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | 0.00213 | 0.000200 | 0.00200 | 0 | 106 | 85 | 115 | 0.471 | 15 | |

| | | | | | | | | | | |
|---------------------------------|----------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1706105-03A SD | Batch ID: 80868 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: SD | Run ID: CETAC2_HG_170612A | Analysis Date: 6/12/2017 3:10:48 PM | Prep Date: 6/12/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | <0.000400 | 0.00100 | 0 | 0 | | | | 0 | 10 | |

| | | | | | | | | | | |
|---------------------------------|----------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1706105-03A MS | Batch ID: 80868 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: MS | Run ID: CETAC2_HG_170612A | Analysis Date: 6/12/2017 3:15:20 PM | Prep Date: 6/12/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | 0.00206 | 0.000200 | 0.00200 | 0 | 103 | 80 | 120 | | | |

| | | | | | | | | | | |
|----------------------------------|----------------------------------|--|-----------------------------|---------|------|----------|-----------|-------|----------|------|
| Sample ID 1706105-03A MSD | Batch ID: 80868 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: MSD | Run ID: CETAC2_HG_170612A | Analysis Date: 6/12/2017 3:17:36 PM | Prep Date: 6/12/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | 0.00205 | 0.000200 | 0.00200 | 0 | 103 | 80 | 120 | 0.487 | 15 | |

| | | | | | | | | | | |
|----------------------------------|----------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1706105-03A PDS | Batch ID: 80868 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: PDS | Run ID: CETAC2_HG_170612A | Analysis Date: 6/12/2017 3:45:40 PM | Prep Date: 6/12/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | 0.00240 | 0.000200 | 0.00250 | 0 | 96.0 | 85 | 115 | | | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706105
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170612B

The QC data in batch 80853 applies to the following samples: 1706105-01B, 1706105-02B, 1706105-03B, 1706105-04B, 1706105-05B, 1706105-06B, 1706105-07B, 1706105-08B

| | | | | | | | | | | |
|---------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID MB-80853 | Batch ID: 80853 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: MBLK | Run ID: ICP-MS5_170612B | Analysis Date: 6/12/2017 2:18:00 PM | Prep Date: 6/12/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Dissolved Lithium | <0.00500 | 0.0100 | | | | | | | | |
| Dissolved Molybdenum | <0.00200 | 0.00500 | | | | | | | | |

| | | | | | | | | | | |
|----------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID LCS-80853 | Batch ID: 80853 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: LCS | Run ID: ICP-MS5_170612B | Analysis Date: 6/12/2017 2:20:00 PM | Prep Date: 6/12/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Dissolved Lithium | 0.187 | 0.0100 | 0.200 | 0 | 93.7 | 80 | 120 | | | |
| Dissolved Molybdenum | 0.189 | 0.00500 | 0.200 | 0 | 94.6 | 80 | 120 | | | |

| | | | | | | | | | | |
|-----------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|-------|----------|------|
| Sample ID LCSD-80853 | Batch ID: 80853 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: LCSD | Run ID: ICP-MS5_170612B | Analysis Date: 6/12/2017 2:22:00 PM | Prep Date: 6/12/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Dissolved Lithium | 0.187 | 0.0100 | 0.200 | 0 | 93.6 | 80 | 120 | 0.126 | 15 | |
| Dissolved Molybdenum | 0.186 | 0.00500 | 0.200 | 0 | 93.1 | 80 | 120 | 1.68 | 15 | |

| | | | | | | | | | | |
|---------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1706105-03B SD | Batch ID: 80853 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: SD | Run ID: ICP-MS5_170612B | Analysis Date: 6/12/2017 2:25:00 PM | Prep Date: 6/12/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | <0.0250 | 0.0500 | 0 | 0.00999 | | | | 0 | 10 | |
| Molybdenum | <0.0100 | 0.0250 | 0 | 0.00916 | | | | 0 | 10 | |

| | | | | | | | | | | |
|----------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1706105-03B PDS | Batch ID: 80853 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: PDS | Run ID: ICP-MS5_170612B | Analysis Date: 6/12/2017 2:43:00 PM | Prep Date: 6/12/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.203 | 0.0100 | 0.200 | 0.00999 | 96.3 | 80 | 120 | | | |
| Molybdenum | 0.197 | 0.00500 | 0.200 | 0.00916 | 93.8 | 80 | 120 | | | |

| | | | | | | | | | | |
|---------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1706105-03B MS | Batch ID: 80853 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: MS | Run ID: ICP-MS5_170612B | Analysis Date: 6/12/2017 2:45:00 PM | Prep Date: 6/12/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Dissolved Lithium | 0.197 | 0.0100 | 0.200 | 0.00999 | 93.4 | 80 | 120 | | | |
| Dissolved Molybdenum | 0.198 | 0.00500 | 0.200 | 0.00916 | 94.4 | 80 | 120 | | | |

- | | |
|--|---|
| <p>Qualifiers:</p> <ul style="list-style-type: none"> B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | <ul style="list-style-type: none"> DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified |
|--|---|

CLIENT: B-Environmental
Work Order: 1706105
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170612B

| Sample ID: 1706105-03B MSD | Batch ID: 80853 | TestNo: SW6020A | Units: mg/L | | | | | | | |
|-----------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|-------|----------|------|
| SampType: MSD | Run ID: ICP-MS5_170612B | Analysis Date: 6/12/2017 2:47:00 PM | Prep Date: 6/12/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Dissolved Lithium | 0.201 | 0.0100 | 0.200 | 0.00999 | 95.7 | 80 | 120 | 2.32 | 15 | |
| Dissolved Molybdenum | 0.197 | 0.00500 | 0.200 | 0.00916 | 94.1 | 80 | 120 | 0.307 | 15 | |

Qualifiers:

| | | | |
|----|---|-----|---------------------------------------|
| B | Analyte detected in the associated Method Blank | DF | Dilution Factor |
| J | Analyte detected between MDL and RL | MDL | Method Detection Limit |
| ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| RL | Reporting Limit | S | Spike Recovery outside control limits |
| J | Analyte detected between SDL and RL | N | Parameter not NELAC certified |

CLIENT: B-Environmental
Work Order: 1706105
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170613A

The QC data in batch 80851 applies to the following samples: 1706105-01A, 1706105-02A, 1706105-03A, 1706105-04A, 1706105-05A, 1706105-06A, 1706105-07A, 1706105-08A

| | | | |
|---------------------------|--------------------------------|---|-----------------------------|
| Sample ID MB-80851 | Batch ID: 80851 | TestNo: SW6020A | Units: mg/L |
| SampType: MBLK | Run ID: ICP-MS5_170613A | Analysis Date: 6/13/2017 12:00:00 PM | Prep Date: 6/12/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|-----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | <0.000800 | 0.00250 | | | | | | | | |
| Arsenic | <0.00200 | 0.00500 | | | | | | | | |
| Barium | <0.00300 | 0.0100 | | | | | | | | |
| Beryllium | <0.000300 | 0.00100 | | | | | | | | |
| Boron | <0.0100 | 0.0300 | | | | | | | | |
| Cadmium | <0.000300 | 0.00100 | | | | | | | | |
| Calcium | <0.100 | 0.300 | | | | | | | | |
| Chromium | <0.00200 | 0.00500 | | | | | | | | |
| Cobalt | <0.00300 | 0.00500 | | | | | | | | |
| Lead | <0.000300 | 0.00100 | | | | | | | | |
| Lithium | <0.00500 | 0.0100 | | | | | | | | |
| Magnesium | <0.100 | 0.300 | | | | | | | | |
| Molybdenum | <0.00200 | 0.00500 | | | | | | | | |
| Potassium | <0.100 | 0.300 | | | | | | | | |
| Selenium | <0.00200 | 0.00500 | | | | | | | | |
| Sodium | <0.100 | 0.300 | | | | | | | | |
| Thallium | <0.000500 | 0.00150 | | | | | | | | |

| | | | |
|----------------------------|--------------------------------|---|-----------------------------|
| Sample ID LCS-80851 | Batch ID: 80851 | TestNo: SW6020A | Units: mg/L |
| SampType: LCS | Run ID: ICP-MS5_170613A | Analysis Date: 6/13/2017 12:02:00 PM | Prep Date: 6/12/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.197 | 0.00250 | 0.200 | 0 | 98.7 | 80 | 120 | | | |
| Arsenic | 0.198 | 0.00500 | 0.200 | 0 | 98.9 | 80 | 120 | | | |
| Barium | 0.195 | 0.0100 | 0.200 | 0 | 97.3 | 80 | 120 | | | |
| Beryllium | 0.199 | 0.00100 | 0.200 | 0 | 99.6 | 80 | 120 | | | |
| Boron | 0.191 | 0.0300 | 0.200 | 0 | 95.4 | 80 | 120 | | | |
| Cadmium | 0.197 | 0.00100 | 0.200 | 0 | 98.5 | 80 | 120 | | | |
| Calcium | 5.09 | 0.300 | 5.00 | 0 | 102 | 80 | 120 | | | |
| Chromium | 0.196 | 0.00500 | 0.200 | 0 | 98.2 | 80 | 120 | | | |
| Cobalt | 0.200 | 0.00500 | 0.200 | 0 | 99.9 | 80 | 120 | | | |
| Lead | 0.196 | 0.00100 | 0.200 | 0 | 98.2 | 80 | 120 | | | |
| Lithium | 0.197 | 0.0100 | 0.200 | 0 | 98.3 | 80 | 120 | | | |
| Magnesium | 5.05 | 0.300 | 5.00 | 0 | 101 | 80 | 120 | | | |
| Molybdenum | 0.190 | 0.00500 | 0.200 | 0 | 94.8 | 80 | 120 | | | |
| Potassium | 4.95 | 0.300 | 5.00 | 0 | 99.1 | 80 | 120 | | | |
| Selenium | 0.197 | 0.00500 | 0.200 | 0 | 98.6 | 80 | 120 | | | |
| Sodium | 5.18 | 0.300 | 5.00 | 0 | 104 | 80 | 120 | | | |
| Thallium | 0.204 | 0.00150 | 0.200 | 0 | 102 | 80 | 120 | | | |

| | | |
|--------------------|--|---|
| Qualifiers: | B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified |
|--------------------|--|---|

CLIENT: B-Environmental
Work Order: 1706105
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170613A

| | | | | | | | |
|-----------|------------|-----------|-----------------|----------------|-----------------------|------------|-----------|
| Sample ID | LCSD-80851 | Batch ID: | 80851 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | LCSD | Run ID: | ICP-MS5_170613A | Analysis Date: | 6/13/2017 12:04:00 PM | Prep Date: | 6/12/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | 0.198 | 0.00250 | 0.200 | 0 | 98.9 | 80 | 120 | 0.215 | 15 | |
| Arsenic | 0.199 | 0.00500 | 0.200 | 0 | 99.7 | 80 | 120 | 0.809 | 15 | |
| Barium | 0.194 | 0.0100 | 0.200 | 0 | 97.2 | 80 | 120 | 0.095 | 15 | |
| Beryllium | 0.199 | 0.00100 | 0.200 | 0 | 99.4 | 80 | 120 | 0.214 | 15 | |
| Boron | 0.204 | 0.0300 | 0.200 | 0 | 102 | 80 | 120 | 6.78 | 15 | |
| Cadmium | 0.195 | 0.00100 | 0.200 | 0 | 97.5 | 80 | 120 | 1.02 | 15 | |
| Calcium | 4.96 | 0.300 | 5.00 | 0 | 99.3 | 80 | 120 | 2.53 | 15 | |
| Chromium | 0.194 | 0.00500 | 0.200 | 0 | 96.9 | 80 | 120 | 1.36 | 15 | |
| Cobalt | 0.201 | 0.00500 | 0.200 | 0 | 100 | 80 | 120 | 0.402 | 15 | |
| Lead | 0.196 | 0.00100 | 0.200 | 0 | 98.0 | 80 | 120 | 0.228 | 15 | |
| Lithium | 0.196 | 0.0100 | 0.200 | 0 | 98.1 | 80 | 120 | 0.140 | 15 | |
| Magnesium | 5.06 | 0.300 | 5.00 | 0 | 101 | 80 | 120 | 0.309 | 15 | |
| Molybdenum | 0.189 | 0.00500 | 0.200 | 0 | 94.3 | 80 | 120 | 0.493 | 15 | |
| Potassium | 4.95 | 0.300 | 5.00 | 0 | 99.0 | 80 | 120 | 0.086 | 15 | |
| Selenium | 0.199 | 0.00500 | 0.200 | 0 | 99.5 | 80 | 120 | 0.906 | 15 | |
| Sodium | 5.17 | 0.300 | 5.00 | 0 | 103 | 80 | 120 | 0.186 | 15 | |
| Thallium | 0.202 | 0.00150 | 0.200 | 0 | 101 | 80 | 120 | 0.901 | 15 | |

| | | | | | | | |
|-----------|----------------|-----------|-----------------|----------------|-----------------------|------------|-----------|
| Sample ID | 1706105-03A SD | Batch ID: | 80851 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | SD | Run ID: | ICP-MS5_170613A | Analysis Date: | 6/13/2017 12:09:00 PM | Prep Date: | 6/12/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Boron | 1.20 | 1.50 | 0 | 0.884 | | | | 30.7 | 10 | R |
| Calcium | 70.5 | 15.0 | 0 | 69.3 | | | | 1.73 | 10 | |
| Sodium | 111 | 15.0 | 0 | 110 | | | | 1.14 | 10 | |

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|-----------------------|------------|-----------|
| Sample ID | 1706105-03A PDS | Batch ID: | 80851 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | PDS | Run ID: | ICP-MS5_170613A | Analysis Date: | 6/13/2017 12:27:00 PM | Prep Date: | 6/12/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Boron | 3.06 | 0.300 | 2.00 | 0.884 | 109 | 80 | 120 | | | |
| Calcium | 117 | 3.00 | 50.0 | 69.3 | 95.8 | 80 | 120 | | | |
| Sodium | 162 | 3.00 | 50.0 | 110 | 105 | 80 | 120 | | | |

| | | | | | | | |
|-----------|----------------|-----------|-----------------|----------------|-----------------------|------------|-----------|
| Sample ID | 1706105-03A MS | Batch ID: | 80851 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | MS | Run ID: | ICP-MS5_170613A | Analysis Date: | 6/13/2017 12:28:00 PM | Prep Date: | 6/12/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Boron | 1.26 | 0.300 | 0.200 | 0.884 | 190 | 80 | 120 | | | S |
| Calcium | 71.3 | 3.00 | 5.00 | 69.3 | 41.0 | 80 | 120 | | | S |
| Sodium | 113 | 3.00 | 5.00 | 110 | 65.7 | 80 | 120 | | | S |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706105
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170613A

| Sample ID | 1706105-03A MSD | Batch ID: | 80851 | TestNo: | SW6020A | Units: | mg/L | | | |
|-----------|-----------------|-----------|-----------------|----------------|-----------------------|------------|-----------|-------|----------|------|
| SampType: | MSD | Run ID: | ICP-MS5_170613A | Analysis Date: | 6/13/2017 12:30:00 PM | Prep Date: | 6/12/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 1.27 | 0.300 | 0.200 | 0.884 | 191 | 80 | 120 | 0.150 | 15 | S |
| Calcium | 73.8 | 3.00 | 5.00 | 69.3 | 90.1 | 80 | 120 | 3.38 | 15 | |
| Sodium | 115 | 3.00 | 5.00 | 110 | 103 | 80 | 120 | 1.62 | 15 | |

| Sample ID | 1706105-03A SD | Batch ID: | 80851 | TestNo: | SW6020A | Units: | mg/L | | | |
|------------|----------------|-----------|-----------------|----------------|----------------------|------------|-----------|------|----------|------|
| SampType: | SD | Run ID: | ICP-MS5_170613A | Analysis Date: | 6/13/2017 1:33:00 PM | Prep Date: | 6/12/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Antimony | <0.00400 | 0.0125 | 0 | 0 | | | | 0 | 10 | |
| Arsenic | 0.0103 | 0.0250 | 0 | 0.00944 | | | | 8.71 | 10 | |
| Barium | 0.0877 | 0.0500 | 0 | 0.0891 | | | | 1.52 | 10 | |
| Beryllium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Cadmium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Chromium | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Cobalt | <0.0150 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Lead | <0.00150 | 0.00500 | 0 | 0.000470 | | | | 0 | 10 | |
| Lithium | <0.0250 | 0.0500 | 0 | 0.00998 | | | | 0 | 10 | |
| Magnesium | 10.0 | 1.50 | 0 | 10.2 | | | | 1.91 | 10 | |
| Molybdenum | <0.0100 | 0.0250 | 0 | 0.00958 | | | | 0 | 10 | |
| Potassium | 1.24 | 1.50 | 0 | 1.25 | | | | 1.08 | 10 | |
| Selenium | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Thallium | <0.00250 | 0.00750 | 0 | 0 | | | | 0 | 10 | |

| Sample ID | 1706105-03A PDS | Batch ID: | 80851 | TestNo: | SW6020A | Units: | mg/L | | | |
|------------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|------|----------|------|
| SampType: | PDS | Run ID: | ICP-MS5_170613A | Analysis Date: | 6/13/2017 1:49:00 PM | Prep Date: | 6/12/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Antimony | 0.199 | 0.00250 | 0.200 | 0 | 99.5 | 80 | 120 | | | |
| Arsenic | 0.205 | 0.00500 | 0.200 | 0.00944 | 97.8 | 80 | 120 | | | |
| Barium | 0.281 | 0.0100 | 0.200 | 0.0891 | 95.7 | 80 | 120 | | | |
| Beryllium | 0.198 | 0.00100 | 0.200 | 0 | 98.9 | 80 | 120 | | | |
| Cadmium | 0.196 | 0.00100 | 0.200 | 0 | 97.9 | 80 | 120 | | | |
| Chromium | 0.201 | 0.00500 | 0.200 | 0 | 101 | 80 | 120 | | | |
| Cobalt | 0.195 | 0.00500 | 0.200 | 0 | 97.5 | 80 | 120 | | | |
| Lead | 0.194 | 0.00100 | 0.200 | 0.000470 | 96.6 | 80 | 120 | | | |
| Lithium | 0.201 | 0.0100 | 0.200 | 0.00998 | 95.6 | 80 | 120 | | | |
| Magnesium | 14.3 | 0.300 | 5.00 | 10.2 | 82.3 | 80 | 120 | | | |
| Molybdenum | 0.197 | 0.00500 | 0.200 | 0.00958 | 93.6 | 80 | 120 | | | |
| Potassium | 5.88 | 0.300 | 5.00 | 1.25 | 92.6 | 80 | 120 | | | |
| Selenium | 0.191 | 0.00500 | 0.200 | 0 | 95.7 | 80 | 120 | | | |
| Thallium | 0.201 | 0.00150 | 0.200 | 0 | 100 | 80 | 120 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706105
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170613A

| Sample ID 1706105-03A MS | | Batch ID: 80851 | | TestNo: SW6020A | | Units: mg/L | | | | |
|--------------------------|--------|-------------------------|-----------|-------------------------------------|------|----------------------|-----------|------|----------|------|
| SampType: MS | | Run ID: ICP-MS5_170613A | | Analysis Date: 6/13/2017 1:51:00 PM | | Prep Date: 6/12/2017 | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Antimony | 0.200 | 0.00250 | 0.200 | 0 | 99.9 | 80 | 120 | | | |
| Arsenic | 0.203 | 0.00500 | 0.200 | 0.00944 | 96.9 | 80 | 120 | | | |
| Barium | 0.282 | 0.0100 | 0.200 | 0.0891 | 96.2 | 80 | 120 | | | |
| Beryllium | 0.193 | 0.00100 | 0.200 | 0 | 96.7 | 80 | 120 | | | |
| Cadmium | 0.193 | 0.00100 | 0.200 | 0 | 96.4 | 80 | 120 | | | |
| Chromium | 0.193 | 0.00500 | 0.200 | 0 | 96.6 | 80 | 120 | | | |
| Cobalt | 0.193 | 0.00500 | 0.200 | 0 | 96.4 | 80 | 120 | | | |
| Lead | 0.194 | 0.00100 | 0.200 | 0.000470 | 96.8 | 80 | 120 | | | |
| Lithium | 0.200 | 0.0100 | 0.200 | 0.00998 | 95.3 | 80 | 120 | | | |
| Magnesium | 14.8 | 0.300 | 5.00 | 10.2 | 90.9 | 80 | 120 | | | |
| Molybdenum | 0.199 | 0.00500 | 0.200 | 0.00958 | 94.6 | 80 | 120 | | | |
| Potassium | 5.98 | 0.300 | 5.00 | 1.25 | 94.5 | 80 | 120 | | | |
| Selenium | 0.188 | 0.00500 | 0.200 | 0 | 94.2 | 80 | 120 | | | |
| Thallium | 0.205 | 0.00150 | 0.200 | 0 | 102 | 80 | 120 | | | |

| Sample ID 1706105-03A MSD | | Batch ID: 80851 | | TestNo: SW6020A | | Units: mg/L | | | | |
|---------------------------|--------|-------------------------|-----------|-------------------------------------|------|----------------------|-----------|-------|----------|------|
| SampType: MSD | | Run ID: ICP-MS5_170613A | | Analysis Date: 6/13/2017 1:53:00 PM | | Prep Date: 6/12/2017 | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Antimony | 0.199 | 0.00250 | 0.200 | 0 | 99.4 | 80 | 120 | 0.567 | 15 | |
| Arsenic | 0.202 | 0.00500 | 0.200 | 0.00944 | 96.2 | 80 | 120 | 0.675 | 15 | |
| Barium | 0.283 | 0.0100 | 0.200 | 0.0891 | 97.0 | 80 | 120 | 0.580 | 15 | |
| Beryllium | 0.193 | 0.00100 | 0.200 | 0 | 96.3 | 80 | 120 | 0.397 | 15 | |
| Cadmium | 0.192 | 0.00100 | 0.200 | 0 | 96.2 | 80 | 120 | 0.200 | 15 | |
| Chromium | 0.193 | 0.00500 | 0.200 | 0 | 96.4 | 80 | 120 | 0.216 | 15 | |
| Cobalt | 0.192 | 0.00500 | 0.200 | 0 | 96.0 | 80 | 120 | 0.436 | 15 | |
| Lead | 0.192 | 0.00100 | 0.200 | 0.000470 | 95.8 | 80 | 120 | 0.941 | 15 | |
| Lithium | 0.198 | 0.0100 | 0.200 | 0.00998 | 93.9 | 80 | 120 | 1.34 | 15 | |
| Magnesium | 14.9 | 0.300 | 5.00 | 10.2 | 93.1 | 80 | 120 | 0.743 | 15 | |
| Molybdenum | 0.199 | 0.00500 | 0.200 | 0.00958 | 94.7 | 80 | 120 | 0.097 | 15 | |
| Potassium | 5.96 | 0.300 | 5.00 | 1.25 | 94.2 | 80 | 120 | 0.215 | 15 | |
| Selenium | 0.189 | 0.00500 | 0.200 | 0 | 94.5 | 80 | 120 | 0.368 | 15 | |
| Thallium | 0.202 | 0.00150 | 0.200 | 0 | 101 | 80 | 120 | 1.53 | 15 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706105
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_170614A

The QC data in batch 80902 applies to the following samples: 1706105-01C, 1706105-02C, 1706105-03C, 1706105-04C, 1706105-05C, 1706105-06C, 1706105-07C, 1706105-08C

| Sample ID | MB-80902 | Batch ID: | 80902 | TestNo: | M2320 B | Units: | mg/L @ pH 4.22 | | | |
|------------------------------------|-----------------|-----------|-------------------------|----------------|------------------------------|------------|-----------------------|------|----------|------|
| SampType: | MBLK | Run ID: | TITRATOR_170614A | Analysis Date: | 6/14/2017 10:31:00 AM | Prep Date: | 6/14/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Alkalinity, Bicarbonate (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Total (As CaCO3) | <20.0 | 20.0 | | | | | | | | |

| Sample ID | LCS-80902 | Batch ID: | 80902 | TestNo: | M2320 B | Units: | mg/L @ pH 4.2 | | | |
|------------------------------|------------------|-----------|-------------------------|----------------|------------------------------|------------|----------------------|------|----------|------|
| SampType: | LCS | Run ID: | TITRATOR_170614A | Analysis Date: | 6/14/2017 10:35:00 AM | Prep Date: | 6/14/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Alkalinity, Total (As CaCO3) | 51.0 | 20.0 | 50.00 | 0 | 102 | 74 | 129 | | | |

| Sample ID | 1706089-03C-DUP | Batch ID: | 80902 | TestNo: | M2320 B | Units: | mg/L @ pH 4.52 | | | |
|------------------------------------|------------------------|-----------|-------------------------|----------------|------------------------------|------------|-----------------------|-------|----------|------|
| SampType: | DUP | Run ID: | TITRATOR_170614A | Analysis Date: | 6/14/2017 11:32:00 AM | Prep Date: | 6/14/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Alkalinity, Bicarbonate (As CaCO3) | 251 | 20.0 | 0 | 249.3 | | | | 0.680 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | 251 | 20.0 | 0 | 249.3 | | | | 0.680 | 20 | |

| Sample ID | 1706105-03C-DUP | Batch ID: | 80902 | TestNo: | M2320 B | Units: | mg/L @ pH 4.52 | | | |
|------------------------------------|------------------------|-----------|-------------------------|----------------|-----------------------------|------------|-----------------------|-------|----------|------|
| SampType: | DUP | Run ID: | TITRATOR_170614A | Analysis Date: | 6/14/2017 1:25:00 PM | Prep Date: | 6/14/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Alkalinity, Bicarbonate (As CaCO3) | 251 | 20.0 | 0 | 253.0 | | | | 0.953 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | 251 | 20.0 | 0 | 253.0 | | | | 0.953 | 20 | |

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
 J Analyte detected between MDL and RL MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
 RL Reporting Limit S Spike Recovery outside control limits
 J Analyte detected between SDL and RL N Parameter not NELAC certified

2609 North River Road, Port Allen, Louisiana 70767
(800) 401-4277 -- FAX (225) 381-2996



ARS International, LLC

Laboratory Analysis Report

ARS1-17-01679

Prepared for:

B-Environmental

**Kevin Baros
1606 East Brazos Street
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Victoria, TX 77901**

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Fax: 361-572-4115**

Project Manager Review

Management Review

Notes: ARS International, LLC assumes no liability for the use or the interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

Contact Person: Questions regarding this analytical report should be addressed to:

**Project Manager
ProjectManagers@amrad.com**

**Phone: 225.381.2991
Fax: 225.381.2996**



LELAP Cert# 01949



2609 North River Road, Port Allen, Louisiana 70767
 1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01679
 Client Sample ID: S171581725 (BATCH 56264)
 Sample Collection Date: 06/07/17
 Sample Matrix: Aqueous
 Percent Solids: N/A

Request or PO Number: N/A
 ARS Sample ID: ARS1-17-01679-001
 Date Received: 06/12/17
 Report Date: 07/11/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.264 | 0.150 | 0.164 | 0.062 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 07/07/17 7:55 | SCAUSEY | 95% |
| Ra-228 | 0.981 | 0.875 | 1.402 | 0.650 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/30/17 12:25 | SCAUSEY | 75% |

Project Manager Review

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LELAP Certificate# 01949



2609 North River Road, Port Allen, Louisiana 70767
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ARS Sample Delivery Group: ARS1-17-01679
 Client Sample ID: S17158172A (BATCH 56264)
 Sample Collection Date: 06/07/17
 Sample Matrix: Aqueous
 Percent Solids: N/A

Request or PO Number: N/A
 ARS Sample ID: ARS1-17-01679-002
 Date Received: 06/12/17
 Report Date: 07/11/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.213 | 0.127 | 0.145 | 0.055 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 07/07/17 7:55 | SCAUSEY | 100% |
| Ra-228 | 0.451 | 0.732 | 1.246 | 0.576 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/30/17 12:25 | SCAUSEY | 79% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-01679

Request or PO Number: N/A

Client Sample ID: S17158172B (BATCH 56264)

ARS Sample ID: ARS1-17-01679-003

Sample Collection Date: 06/07/17

Date Received: 06/12/17

Sample Matrix: Aqueous

Report Date: 07/11/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.115 | 0.105 | 0.150 | 0.056 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/07/17 7:55 | SCAUSEY | 94% |
| Ra-228 | 0.886 | 0.781 | 1.247 | 0.576 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/30/17 12:25 | SCAUSEY | 85% |

Project Manager Review

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 1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01679

Request or PO Number: N/A

Client Sample ID: S17158172C (BATCH 56264)

ARS Sample ID: ARS1-17-01679-004

Sample Collection Date: 06/07/17

Date Received: 06/12/17

Sample Matrix: Aqueous

Report Date: 07/11/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.295 | 0.165 | 0.202 | 0.083 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 07/07/17 7:55 | SCAUSEY | 93% |
| Ra-228 | 1.162 | 0.850 | 1.325 | 0.618 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/30/17 12:25 | SCAUSEY | 90% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-01679

Request or PO Number: N/A

Client Sample ID: S17158172D (BATCH 56264)

ARS Sample ID: ARS1-17-01679-005

Sample Collection Date: 06/07/17

Date Received: 06/12/17

Sample Matrix: Aqueous

Report Date: 07/11/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.237 | 0.148 | 0.188 | 0.075 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 07/07/17 7:55 | SCAUSEY | 98% |
| Ra-228 | 1.340 | 0.955 | 1.478 | 0.688 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/30/17 12:25 | SCAUSEY | 73% |

Project Manager Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

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ARS Sample Delivery Group: ARS1-17-01679

Request or PO Number: N/A

Client Sample ID: S17158172E (BATCH 56264)

ARS Sample ID: ARS1-17-01679-006

Sample Collection Date: 06/07/17

Date Received: 06/12/17

Sample Matrix: Aqueous

Report Date: 07/11/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.165 | 0.130 | 0.180 | 0.071 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/07/17 7:55 | SCAUSEY | 102% |
| Ra-228 | 0.337 | 0.823 | 1.430 | 0.665 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/30/17 12:25 | SCAUSEY | 76% |

Project Manager Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

LELAP Certificate# 01949



2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01678
 Client Sample ID: S17158172F (BATCH 56264)
 Sample Collection Date: 06/07/17
 Sample Matrix: Aqueous
 Percent Solids: N/A

Request or PO Number: N/A
 ARS Sample ID: ARS1-17-01678-001
 Date Received: 06/12/17
 Report Date: 07/11/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.199 | 0.124 | 0.145 | 0.055 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 06/30/17 8:50 | CTRAMEL | 106% |
| Ra-228 | 0.277 | 0.922 | 1.602 | 0.757 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/23/17 12:57 | CTRAMEL | 91% |

Project Manager Review

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2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01678
 Client Sample ID: S17158172G (BATCH 56264)
 Sample Collection Date: 06/07/17
 Sample Matrix: Aqueous
 Percent Solids: N/A

Request or PO Number: N/A
 ARS Sample ID: ARS1-17-01678-002
 Date Received: 06/12/17
 Report Date: 07/11/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.094 | 0.101 | 0.156 | 0.059 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/03/17 8:20 | CTRAMEL | 103% |
| Ra-228 | 0.471 | 0.795 | 1.356 | 0.628 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/26/17 12:49 | CTRAMEL | 78% |

Project Manager Review

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LELAP Certificate# 01949



**INTERNATIONAL
QC Results Report**

2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

Sample Delivery Group: ARS1-17-01679

Laboratory Control Sample Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | LCS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|----------------------|
| ARS1-B17-01292 | LCS | RA-226 | 23.401 | 3.782 | 0.100 | 27.583 | N/A | pCi/L | ARS-010/EPA 903 | 7/7/17 9:54 | SC | 85 | 75%-125% |
| ARS1-B17-01292 | LCS | RA-228 | 38.098 | 6.362 | 1.144 | 39.784 | N/A | pCi/L | ARS-010/EPA 904 | 6/30/17 14:25 | SC | 96 | 75%-125% |

Blank Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|
| ARS1-B17-01292 | MBL | RA-226 | 0.002 | 0.042 | 0.089 | NA | U | pCi/L | ARS-010/EPA 903 | 7/7/17 9:54 | SC |
| ARS1-B17-01292 | MBL | RA-228 | -0.243 | 0.394 | 0.745 | NA | U | pCi/L | ARS-010/EPA 904 | 6/30/17 14:25 | SC |

RER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | RER | RER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01292 | LCSD | RA-226 | 23.401 | 3.782 | 30.882 | 4.972 | N/A | pCi/L | ARS-010/EPA 903 | 7/7/17 9:54 | SC | 0.85 | < 1 |
| ARS1-B17-01292 | LCSD | RA-228 | 38.098 | 6.362 | 36.452 | 6.073 | N/A | pCi/L | ARS-010/EPA 904 | 6/30/17 14:25 | SC | 0.13 | < 1 |

DER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | DER | DER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01292 | LCSD | RA-226 | 23.401 | 3.782 | 30.882 | 4.972 | N/A | pCi/L | ARS-010/EPA 903 | 7/7/17 9:54 | SC | 1.20 | < 3 |
| ARS1-B17-01292 | LCSD | RA-228 | 38.098 | 6.362 | 36.452 | 6.073 | N/A | pCi/L | ARS-010/EPA 904 | 6/30/17 14:25 | SC | 0.19 | < 3 |

Matrix Spike

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | MS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|---------------------|
| ARS1-B17-01292 | MS | Ra-226 | 48.347 | 7.803 | 0.128 | 55.903 | N/A | pCi/L | ARS-010/EPA 903 | 7/7/17 9:54 | SC | 86 | 60%-140% |
| ARS1-B17-01292 | MS | Ra-228 | 40.187 | 6.773 | 1.496 | 51.707 | N/A | pCi/L | ARS-010/EPA 903 | 6/30/17 14:25 | SC | 78 | 60%-140% |
| ARS1-B17-01292 | MSD | Ra-226 | 58.005 | 9.330 | 0.142 | 55.580 | N/A | pCi/L | ARS-010/EPA 904 | 7/7/17 9:54 | SC | 104 | 60%-140% |
| ARS1-B17-01292 | MSD | Ra-228 | 49.101 | 8.184 | 1.547 | 51.297 | N/A | pCi/L | ARS-010/EPA 904 | 6/30/17 14:25 | SC | 96 | 60%-140% |

Project Manager Review

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NELAP Certificate# 01949

NELAP Certificate # E87558



QC Results Report

2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

Sample Delivery Group: ARS1-17-01678

Laboratory Control Sample Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | LCS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|----------------------|
| ARS1-B17-01229 | LCS | RA-226 | 26.761 | 4.314 | 0.095 | 27.513 | N/A | pCi/L | ARS-010/EPA 903 | 6/30/17 8:49 | CT | 97 | 75%-125% |
| ARS1-B17-01229 | LCS | RA-228 | 37.902 | 6.314 | 1.125 | 39.784 | N/A | pCi/L | ARS-010/EPA 904 | 6/30/17 8:49 | CT | 95 | 75%-125% |

Blank Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|
| ARS1-B17-01229 | MBL | RA-226 | 0.015 | 0.049 | 0.094 | NA | U | pCi/L | ARS-010/EPA 903 | 6/30/17 8:49 | CT |
| ARS1-B17-01229 | MBL | RA-228 | -0.288 | 0.323 | 0.621 | NA | U | pCi/L | ARS-010/EPA 904 | 6/30/17 8:49 | CT |

RER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | RER | RER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01229 | LCSD | RA-226 | 26.761 | 4.314 | 30.342 | 4.894 | N/A | pCi/L | ARS-010/EPA 903 | 6/30/17 8:49 | CT | 0.39 | < 1 |
| ARS1-B17-01229 | LCSD | RA-228 | 37.902 | 6.314 | 39.765 | 6.630 | N/A | pCi/L | ARS-010/EPA 904 | 6/30/17 8:49 | CT | 0.14 | < 1 |

DER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | DER | DER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01229 | LCSD | RA-226 | 26.761 | 4.314 | 30.342 | 4.894 | N/A | pCi/L | ARS-010/EPA 903 | 6/30/17 8:49 | CT | 0.55 | < 3 |
| ARS1-B17-01229 | LCSD | RA-228 | 37.902 | 6.314 | 39.765 | 6.630 | N/A | pCi/L | ARS-010/EPA 904 | 6/30/17 8:49 | CT | 0.20 | < 3 |

Project Manager Review

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NELAP Certificate # E87558



INTERNATIONAL
QC Results Report

2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

Sample Delivery Group: ARS1-17-01678

Laboratory Control Sample Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | LCS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|----------------------|
| ARS1-B17-01240 | LCS | RA-226 | 27.226 | 4.387 | 0.100 | 27.564 | N/A | pCi/L | ARS-010/EPA 903 | 7/3/17 10:19 | CT | 99 | 75%-125% |
| ARS1-B17-01240 | LCS | RA-228 | 40.447 | 6.704 | 1.054 | 39.784 | N/A | pCi/L | ARS-010/EPA 904 | 6/26/17 14:48 | CT | 102 | 75%-125% |

Blank Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|
| ARS1-B17-01240 | MBL | RA-226 | 0.064 | 0.068 | 0.105 | NA | U | pCi/L | ARS-010/EPA 903 | 7/3/17 10:19 | CT |
| ARS1-B17-01240 | MBL | RA-228 | 0.022 | 0.495 | 0.888 | NA | U | pCi/L | ARS-010/EPA 904 | 6/26/17 14:48 | CT |

RER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | RER | RER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01240 | LCSD | RA-226 | 27.226 | 4.387 | 27.378 | 4.420 | N/A | pCi/L | ARS-010/EPA 903 | 7/3/17 10:19 | CT | 0.02 | < 1 |
| ARS1-B17-01240 | LCSD | RA-228 | 40.447 | 6.704 | 41.050 | 6.822 | N/A | pCi/L | ARS-010/EPA 904 | 6/26/17 14:48 | CT | 0.04 | < 1 |

DER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | DER | DER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01240 | LCSD | RA-226 | 27.226 | 4.387 | 27.378 | 4.420 | N/A | pCi/L | ARS-010/EPA 903 | 7/3/17 10:19 | CT | 0.02 | < 3 |
| ARS1-B17-01240 | LCSD | RA-228 | 40.447 | 6.704 | 41.050 | 6.822 | N/A | pCi/L | ARS-010/EPA 904 | 6/26/17 14:48 | CT | 0.06 | < 3 |

Project Manager Review

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NELAP Certificate # E87558



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1 (800) 401-4277 • Fax (225) 381-2996

Notes (Case Narrative):

Comments:

- 1.0) All MDA/MDC values are calculated on a sample specific basis.
- 2.0) Soil and Sludge analysis are reported on a wet basis or an as received basis unless otherwise indicated.
- 3.0) Data in this report are within the limits of uncertainty specified in the reference method unless otherwise specified.
- 4.0) Modified analysis procedures are procedures that are modified to meet the certain specifications. An example may be the use of a water method to analyze a solid matrix due to the lack of an officially recognized procedure for the analysis of the solid matrix. Modified analyses are indicated by the subsequent addition of "m" to the procedure number (i.e. 900.0M).
- 5.0) Total activity is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring radioactive decay chains and other prominent radioactive nuclides. Total activity may be lower than the actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not representative of nuclides that emit solely alpha or beta particles.
- 6.0) Ra-228 is determined via secular equilibrium with its daughter, Actinium 228 (Gamma Spectroscopy only).
- 7.0) U-238 is determined via secular equilibrium with its daughter, Thorium 234 (Gamma Spectroscopy only).
- 8.0) All gamma spectroscopy was performed utilizing high purity germanium detectors (HPGe).
- 9.0) ARS makes every attempt to match sample density to calibrated density; however, in some cases, it is not practical or possible to do so and data results may be affected (Gamma Spectroscopy only).
- 10.0) Gamma spectroscopy results are calculated values based on the **ORTEC®** GammaVision ENV32 Analysis Engine.
- 11.0) ACLASS DOD and ISO 17025 certification applies only to the following analytes and methods: Gross Alpha and Gross Beta (EPA 900, SM7110B&C, SW846 9310); Radium 226 (EPA 903, EPA 903.1, SM 7500 Ra-B, SW846 9315); Radium 228 (EPA 904, SM 7500 Ra-B SW846 9320); Iodine-131 (EPA 901.1); Uranium by ICPMS (EPA 200.8); Strontium 89/90 (EPA 905, Eichrom SRW01, HASL 300 Sr-03-RC); Tritium (EPA 906, EPA 906M); Gamma Emitters (EPA 901.1, SM7120B, HASL 300 Ga-01-R); Americium-241, Curium 242/244, Plutonium 239/240 and 241, Thorium 228/230/232, Uranium 234/233 and 238 (Eichrom ACW03 VBS); Lead 210 (HASL 300 Pb-01-RC, Eichrom OTW01); Polonium 210 (HASL 300 Po-01-RC, HASL 300 Po-02-RC); Technetium-99 (Eichrom TCW02, Eichrom TCS01M).

Method References:

- 1.0) **EPA 600/4-80-032**; Prescribed Procedures for the Measurements of Radioactivity in Drinking Water, August 1980.
- 2.0) **Standard Methods for the Examination of Water and Wastewater** (On-Line Edition)
- 3.0) **EPA SW-846**; Test Methods for Evaluating Solid Waste, (On-Line edition)
- 4.0) **EPA 600/479-020**; Methods for Chemical Analysis of Water and Waste, March 1983.
- 5.0) **HASL 300**; The Procedures Manual of the Environmental Measurements Laboratory, Volume I, 28th Edition February, 1997.

Definitions:

| | |
|-----------------|---|
| CRDL | Contract Required Detection Limit |
| CSU | Combined Standard Uncertainty |
| DLC | Decision Level Concentration (ANSI N42.23) or critical level |
| DO | Duplicate Original |
| DUP | Method Duplicate |
| LCS/LCSD | Laboratory Control Sample/Laboratory Control Sample Duplicate |
| MDA | Minimum Detectable Activity |
| MDC | (Minimum Detectable Concentration) minimum concentration of the analyte that ARS can detect utilizing the specific analysis |
| MBL | Method Blank |
| MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| N/A | Not Applicable |
| NP | Not Provided |
| NR | Not Referenced |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |

Data Qualifiers:

| | |
|-----------|--|
| B | The analyte is found in both the associated method blank and the sample. This flag indicates probable blank contamination. |
| D | Sample analysis accomplished through dilution. |
| J | The reported result is an estimated value above the limit of detection but outside of quantitation range (e.g., matrix interference was observed). |
| Q | One or more quality control criteria failed (e.g., LCS recovery, surrogate spike recovery, or CCV recovery). |
| U | Activity is below the MDC, MDA, MDL, or LOD |
| N | The analyte is a tentatively identified compound using mass spectrometry or any non-customer requested compounds that are tentatively identified. |
| * | LCS/LCSD or MS/MSD fails RPD criteria. |
| S | Spike |
| SC | Subcontracted out to another qualified laboratory |
| H | Holding time exceeded |

LELAP Cert# 01949

NELAP Cert# E87558

ARS-059-010
Revision: 9.1
Revision Date: 03-14-2017

B Environmental Laboratory, LLC
 1606 E Brazos Suite D Victoria, Texas 77901 ph. (361) 572-8224

Chain Of Custody Record

Customer / Report Information: Billing Information: Check box if Billing is the same as Report Information

Name: Coleto Creek Power Address: Attention: Rick Coleman PO #

Address: P. O. Box 8; Fannin, TX 77960 Project: CCR Sampling Comments:

Phone: 361-788-5145 EMAIL: richard.coleman@dvneuv.com

Batch # 56204 THERM ID# 3 TEMP UN-C: 49 TEMP Corr: 4.7

| Sample Information | Collected | | Matrix | Container | TYPE | NUMBER | Size | Preservative | Metals* | | | | | Custody Seals Present |
|--------------------|-----------|------|--------|-----------|------|--------|------|--------------|---------|----|------|-------------------|-----------|-----------------------|
| | Date | Time | | | | | | | As | Gr | Comp | Dr - Drinking H2O | S - Solid | |

| | | | | | | | | | | | | | | | | | |
|--------------------------|------|--|--------|-----------|------|--------|------|--------------|----|----|------|-------------------|-----------|----------------|------------|-----------|-----------------------|
| Client / Field Sample ID | Date | | Matrix | Container | TYPE | NUMBER | Size | Preservative | As | Gr | Comp | Dr - Drinking H2O | S - Solid | WW - Waste H2O | L - Liquid | W - Water | Custody Seals Present |
|--------------------------|------|--|--------|-----------|------|--------|------|--------------|----|----|------|-------------------|-----------|----------------|------------|-----------|-----------------------|

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|--------|--|---|----|---|---|-------|---|--|--|--|--|--|--|--|--|---|---|---|---|---|---|--|--|------------|
| Dup 2 | 6-7-17 | | G | WW | P | 6 | 250mL | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | | | | | | | | X | X | X | X | X | X | | | S171581725 |
|-------|--------|--|---|----|---|---|-------|---|--|--|--|--|--|--|--|--|---|---|---|---|---|---|--|--|------------|

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|------|--|---|----|---|---|-------|--|---|--|--|--|--|--|--|--|---|---|---|---|---|---|--|--|------------|
| MW-6 | 1043 | | G | WW | P | 6 | 500mL | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE <input type="checkbox"/> Na2SO3 | <input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | | | | | | | | X | X | X | X | X | X | | | S17158172A |
|------|------|--|---|----|---|---|-------|--|---|--|--|--|--|--|--|--|---|---|---|---|---|---|--|--|------------|

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|------|--|---|----|---|---|-------|--|---|--|--|--|--|--|--|--|---|---|---|---|---|---|--|--|------------|
| MW-7 | 1300 | | G | WW | P | 6 | 500mL | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE <input type="checkbox"/> Na2SO3 | <input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | | | | | | | | X | X | X | X | X | X | | | S17158172B |
|------|------|--|---|----|---|---|-------|--|---|--|--|--|--|--|--|--|---|---|---|---|---|---|--|--|------------|

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|-----|--|---|----|---|---|-------|--|---|--|--|--|--|--|--|--|---|---|---|---|---|---|--|--|------------|
| BV-5 | 753 | | G | WW | P | 6 | 500mL | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE <input type="checkbox"/> Na2SO3 | <input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | | | | | | | | X | X | X | X | X | X | | | S17158172C |
|------|-----|--|---|----|---|---|-------|--|---|--|--|--|--|--|--|--|---|---|---|---|---|---|--|--|------------|

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|-----|--|---|----|---|---|-------|--|---|--|--|--|--|--|--|--|---|---|---|---|---|---|--|--|------------|
| PS-3 | 846 | | G | WW | P | 6 | 500mL | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE <input type="checkbox"/> Na2SO3 | <input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | | | | | | | | X | X | X | X | X | X | | | S17158172D |
|------|-----|--|---|----|---|---|-------|--|---|--|--|--|--|--|--|--|---|---|---|---|---|---|--|--|------------|

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|-----|--|---|----|---|---|-------|--|---|--|--|--|--|--|--|--|---|---|---|---|---|---|--|--|------------|
| MW-11 | 915 | | G | WW | P | 6 | 500mL | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE <input type="checkbox"/> Na2SO3 | <input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | | | | | | | | X | X | X | X | X | X | | | S17158172E |
|-------|-----|--|---|----|---|---|-------|--|---|--|--|--|--|--|--|--|---|---|---|---|---|---|--|--|------------|

Required Turnaround: Routine (6-10 Business days) Expedite / Rush: 1 Business Day 2 Business Days 3 Business days 5 Business days Other

Surcharge will apply to RUSH/TAT Authorized By: Container Type: P=Plastic, G=Glass, V=Voa, O=Other Carrier ID:

Relinquished By: Date: 6-7-17 Time: 16:20 Received By: Date: 6-7-17 Time: 16:20

1606 E Brazos Suite D, Victoria, Texas 77901 Ph. (361) 572-8224 Fax (361) 572-4115 Toll Free 1-800-460-8223 Form #1000.0-2 REV 1.2 Email: kbenniv@ suddenlinkmail.com www.benvironmental.net

B Environmental Laboratory, LLC

1606 E Brazos Suite D Victoria, Texas 77901 ph. (361) 572-8224

Chain Of Custody Record

Batch # 500104

TEMP UN-C: 49

Page 2 of 2

Customer / Report Information

Billing Information

Check box if Billing is the same as Report Information

Therm ID# 3

TEMP CORR: 4.8

Name: Coleto Creek Power

Address:

Phone: 361-788-5145

FAX:

Attention: Rick Coleman

Project: CCR Sampling

PO #

EMAIL: richard.coleman@dyneon.com

Address: P. O. Box 8; Fannin, TX 77960

Comments:

Requester: B Analysis

Completed By laboratory

| Sample Information | Client / Field Sample ID | Collected | | Matrix | Container | Preservative | Metals* | | | | | | | Custody Seals Present | |
|--------------------|--------------------------|-----------|------|--------|-----------|--|---------|--------|------|-------------|----|-----|---------------|-----------------------|-------------------------|
| | | Date | Time | | | | TYPE | NUMBER | Size | Cl, F*, SO4 | pH | TDS | Ra226 & Ra228 | | Alk: Tot, Carb, Bi Carb |
| ms / mw7 | ms / mw7 | 6-7-17 | 1300 | WW | 1L | <input type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> H3PO4 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | X | | |
| msd / mw7 | msd / mw7 | 6-7-17 | 1300 | WW | 6 | <input type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> H3PO4 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | X | | |
| mw-9 | mw-9 | 6-7-17 | 1337 | WW | 1L | <input type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> H3PO4 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | X | | S17158172F |
| mw-9A | mw-9A | 6-7-17 | 1419 | WW | 6 | <input type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> H3PO4 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | X | | S17158172G |
| | | | | WW | 1L | <input type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> H3PO4 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | X | | |
| | | | | WW | 6 | <input type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> H3PO4 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | X | | |
| | | | | WW | 1L | <input type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> H3PO4 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | X | | |
| | | | | WW | 6 | <input type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> H3PO4 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | X | | |

Required Turnaround: Routine (6-10 Business days) Expedite / Rush: 1 Business Day 2 Business Days 3 Business days 5 Business days Other

Surcharge will apply to RUSH/TAT Authorized By: _____

Relinquished By: _____ Date: 6-7-17 Time: 16:20

Relinquished By: _____ Date: _____ Time: _____

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BatchNo: 56182

SAMPLE REPORT



T104704328-17-14

Business

Coletto Creek Power - R Coleman
PO Box 8
Fannin TX 77960
Att: Rick Coleman



Laboratory

B Environmental, LLC.
1606 E Brazos, Suite D
Victoria TX 77901
ph. 361-572-8224

Reference Information

Project: CCR Sampling
Printed: Wednesday,
July 12, 2017

Re: Coletto Creek Power - R Coleman

Dear: Rick Coleman

Attached are the results for sample(s) received on 6/6/2017

The analytical results relate only to the samples tested.
All supporting quality data meets the requirements of NELAC unless noted in the case narrative section of the report.

This report contains 50 pages (including the cover page)

If you have any questions concerning this report, please do not hesitate to call (361) 572-8224 or Fax us at (361) 572-4115

Respectfully Submitted,

Kevin Baros

Laboratory Director



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B Environmental, LLC.

BatchNo:

56182

1606 E Brazos, Suite D

Victoria TX 77901

Batch No: 56182

Sample Receipt Checklist

Date Received: 6/6/2017

Project CCR Sampling

Received By: Woodruff

Login completed by: Woodruff 6/6/2017

Signature LoginDate:

Carrier Name Walk In

- Shipping container/cooler in good condition? YES NO Not Present
- Custody seals intact on shipping container/cooler? YES NO Not Present
- Custody seals intact on sample bottles? YES NO Not Present
- Chain of Custody present? YES NO
- Chain of Custody signed when relinquished and received YES NO
- Chain of Custody agrees with sample labels? YES NO
- Samples in proper container/bottles? YES NO
- Sample containers intact? YES NO
- Sufficient sample volume for indicated tests? YES NO
- All samples received within holding times? YES NO
- Container/Temp Blank - temperature in compliance? YES NO >0 <6 °C On Ice
- Water - VOA vials have zero headspace? Bubble < 6mm? YES NO No VOA Vials submitted
- Water - pH acceptable upon receipt? YES NO Not Applicable

*TEMP 7.6/7.4 pH Adjusted? No Checked By L. Vahrenkamp

Any No and/or N/A (not applicable) response must be detailed in the comments section below.

Client contacted PersonContacted

Contacted by: Date Contacted:

Regarding

Comments
Therm #3. HNO3 Lot # 2-42-12. pH Paper Lot # 2-25-6. The samples were received the same day they were collected and were in the process of cooling.

Corrective Action



B Environmental, LLC.

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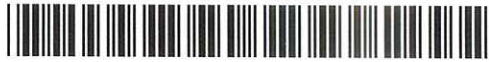
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BatchNo: 56182

Sample Report Information



| | | | | | |
|------------|------------|------------|-------|----------|--------|
| Sample ID: | S171571808 | Client ID: | Dup 1 | Sampler: | Client |
|------------|------------|------------|-------|----------|--------|

Client: **Coletto Creek Power - R Coleman**
 Study: **Water**
 Project: **CCR Sampling**
 Location: **Dup**
 Notes:

Batch No: **56182**
 Sampled: **6/6/2017 12:00 AM**
 Type: **Grab**
 Matrix: **Water**

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 72 | mg/L | EPA 300 | K Baros | 6/8/2017 1:42 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 269 | mg/L | SM 2320 B | | 6/14/2017 11:13 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/14/2017 11:13 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 269 | mg/L | SM 2320 B | | 6/14/2017 11:13 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.43 | mg/L | EPA 300 | K Baros | 6/8/2017 1:42 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 6.82 | SU | SM 4500-H+B | C Watts | 6/7/2017 11:00 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 546 | mg/L | SM2540C | C Watts | 6/8/2017 15:00 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 6/13/2017 12:58 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 83.7 | mg/L | EPA 300 | K Baros | 6/8/2017 1:42 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/3/2017 8:20 | | | | | | <input checked="" type="checkbox"/> ARS International |



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BatchNo: 56182

Sample Report Information



| | | | | | |
|-------------------|------------|-------------------|-----|-----------------|--------|
| Sample ID: | S17157180A | Client ID: | Blk | Sampler: | Client |
|-------------------|------------|-------------------|-----|-----------------|--------|

Client: Coletto Creek Power - R Coleman
Study: Water
Project: CCR Sampling
Location: Blank
Notes:

Batch No: 56182
Sampled: 6/6/2017 3:15 PM
Type: Grab
Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | < 1 | mg/L | EPA 300 | K Baros | 6/7/2017 17:27 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | < 20 | mg/L | SM 2320 B | | 6/14/2017 11:14 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/14/2017 11:14 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | < 20 | mg/L | SM 2320 B | | 6/14/2017 11:14 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | < 0.25 | mg/L | EPA 300 | K Baros | 6/7/2017 17:27 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 5.75 | SU | SM 4500-H+B | C Watts | 6/7/2017 11:00 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | < 25 | mg/L | SM2540C | C Watts | 6/8/2017 15:00 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 6/13/2017 12:32 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | < 1 | mg/L | EPA 300 | K Baros | 6/7/2017 17:27 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/3/2017 8:20 | | | | | | <input checked="" type="checkbox"/> ARS International |



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BatchNo: 56182

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Sample Report Information



| | | | | | |
|------------|------------|------------|------|----------|--------|
| Sample ID: | S17157180B | Client ID: | MW-4 | Sampler: | Client |
|------------|------------|------------|------|----------|--------|

Client: **Coletto Creek Power - R Coleman**
 Study: **Water**
 Project: **CCR Sampling**
 Location: **MW #4**
 Notes:

Batch No: **56182**
 Sampled: **6/6/2017 11:28 AM**
 Type: **Grab**
 Matrix: **Water**

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 101 | mg/L | EPA 300 | K Baros | 6/7/2017 18:05 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 249 | mg/L | SM 2320 B | | 6/14/2017 11:24 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/14/2017 11:24 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 249 | mg/L | SM 2320 B | | 6/14/2017 11:24 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.63 | mg/L | EPA 300 | K Baros | 6/7/2017 18:05 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 6.87 | SU | SM 4500-H+B | C Watts | 6/7/2017 11:00 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 728 | mg/L | SM2540C | C Watts | 6/9/2017 15:00 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 6/13/2017 12:48 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 157 | mg/L | EPA 300 | K Baros | 6/7/2017 18:05 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/3/2017 8:20 | | | | | | <input checked="" type="checkbox"/> ARS International |



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BatchNo: 56182

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Sample Report Information



| | | | | | |
|-------------------|------------|-------------------|------|-----------------|--------|
| Sample ID: | S17157180C | Client ID: | MW-8 | Sampler: | Client |
|-------------------|------------|-------------------|------|-----------------|--------|

Client: Coletto Creek Power - R Coleman
Study: Water
Project: CCR Sampling
Location: MW #8
Notes:

Batch No: 56182
Sampled: 6/6/2017 8:53 AM
Type: Grab
Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 72 | mg/L | EPA 300 | K Baros | 6/7/2017 19:59 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 271 | mg/L | SM 2320 B | | 6/14/2017 11:42 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/14/2017 11:42 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 271 | mg/L | SM 2320 B | | 6/14/2017 11:42 | 10 | 10 | | | | <input checked="" type="checkbox"/> PCS Cert No. T104704361-08 |
| Fluoride, IC | 0.45 | mg/L | EPA 300 | K Baros | 6/7/2017 19:59 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 6.97 | SU | SM 4500-H+B | C Watts | 6/7/2017 11:00 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 570 | mg/L | SM2540C | C Watts | 6/9/2017 15:00 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 6/13/2017 13:02 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 83.5 | mg/L | EPA 300 | K Baros | 6/7/2017 19:59 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/3/2017 8:20 | | | | | | <input checked="" type="checkbox"/> ARS International |



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Sample Report Information



| | | | | | |
|------------|-------------------|------------|-------------|----------|---------------|
| Sample ID: | S17157180D | Client ID: | BV-1 | Sampler: | Client |
|------------|-------------------|------------|-------------|----------|---------------|

Client: **Coletto Creek Power - R Coleman**

Study: **Water**

Batch No: **56182**

Sampled: **6/6/2017**

2:34 PM

Project: **CCR Sampling**

Location: **BV-1**

Type: **Grab**

Notes:

Matrix: **Water**

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| .- Chloride, IC | 142 | mg/L | EPA 300 | K Baros | 6/7/2017 21:54 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 403 | mg/L | SM 2320 B | | 6/14/2017 11:56 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/14/2017 11:56 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 403 | mg/L | SM 2320 B | | 6/14/2017 11:56 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.73 | mg/L | EPA 300 | K Baros | 6/7/2017 21:54 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.03 | SU | SM 4500-H+B | C Watts | 6/7/2017 11:00 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 996 | mg/L | SM2540C | C Watts | 6/9/2017 15:00 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 6/13/2017 13:04 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 183 | mg/L | EPA 300 | K Baros | 6/7/2017 21:54 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/3/2017 8:20 | | | | | | <input checked="" type="checkbox"/> ARS International |



Sample Report Information



| | | | | | |
|------------|------------|------------|-------|----------|--------|
| Sample ID: | S17157180E | Client ID: | BV-10 | Sampler: | Client |
|------------|------------|------------|-------|----------|--------|

Client: **Coletto Creek Power - R Coleman**
 Study: **Water**
 Project: **CCR Sampling**
 Location: **BV-10**
 Notes:

Batch No: **56182**
 Sampled: **6/6/2017 2:04 PM**
 Type: **Grab**
 Matrix: **Water**

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|-------------------------------------|-------|-------------------------------|
| - Chloride, IC | 84 | mg/L | EPA 300 | K Baros | 6/7/2017 22:32 | 1 | 1 | | <input type="checkbox"/> | | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 300 | mg/L | SM 2320 B | | 6/14/2017 | 10 | 10 | | <input checked="" type="checkbox"/> | | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/14/2017 | 10 | 10 | | <input checked="" type="checkbox"/> | | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 300 | mg/L | SM 2320 B | | 6/14/2017 | 10 | 10 | | <input checked="" type="checkbox"/> | | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.82 | mg/L | EPA 300 | K Baros | 6/7/2017 22:32 | 0.25 | 0.25 | | <input type="checkbox"/> | | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.36 | SU | SM 4500-H+B | C Watts | 6/7/2017 11:00 | | | | <input type="checkbox"/> | | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 638 | mg/L | SM2540C | C Watts | 6/9/2017 15:00 | 25 | 25 | | <input type="checkbox"/> | | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 6/13/2017 13:06 | | | | <input checked="" type="checkbox"/> | | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 78 | mg/L | EPA 300 | K Baros | 6/7/2017 22:32 | 1 | 1 | | <input type="checkbox"/> | | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 6/30/2017 8:49 | | | | <input checked="" type="checkbox"/> | | ARS International |



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 Victoria TX 77901

BatchNo: 56182

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Sample Report Information



| | | | | | |
|------------|------------|------------|-------|----------|--------|
| Sample ID: | S17157180F | Client ID: | BV-15 | Sampler: | Client |
|------------|------------|------------|-------|----------|--------|

Client: **Coletto Creek Power - R Coleman**
 Study: **Water**
 Project: **CCR Sampling**
 Location: **BV 15**
 Notes:

Batch No: **56182**
 Sampled: **6/6/2017 10:40 AM**
 Type: **Grab**
 Matrix: **Water**

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 55 | mg/L | EPA 300 | K Baros | 6/7/2017 23:10 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 199 | mg/L | SM 2320 B | | 6/14/2017 12:14 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/14/2017 12:14 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 199 | mg/L | SM 2320 B | | 6/14/2017 12:14 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.8 | mg/L | EPA 300 | K Baros | 6/7/2017 23:10 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.22 | SU | SM 4500-H+B | C Watts | 6/7/2017 11:00 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 484 | mg/L | SM2540C | C Watts | 6/9/2017 15:00 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 6/13/2017 13:08 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 87 | mg/L | EPA 300 | K Baros | 6/7/2017 23:10 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 6/30/2017 8:49 | | | | | | <input checked="" type="checkbox"/> ARS International |



B Environmental, LLC.

1606 E Brazos, Suite D

Victoria TX 77901

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Sample Report Information



| | | | | | |
|------------|------------|------------|-------|----------|--------|
| Sample ID: | S17157180G | Client ID: | BV-19 | Sampler: | Client |
|------------|------------|------------|-------|----------|--------|

Client: **Coletto Creek Power - R Coleman**
 Study: **Water**
 Project: **CCR Sampling**
 Location: **BV-19**
 Notes:

Batch No: **56182**
 Sampled: **6/6/2017 1:32 PM**
 Type: **Grab**
 Matrix: **Water**

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 120 | mg/L | EPA 300 | K Baros | 6/7/2017 23:48 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 336 | mg/L | SM 2320 B | | 6/14/2017 12:26 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/14/2017 12:26 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 336 | mg/L | SM 2320 B | | 6/14/2017 12:26 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.51 | mg/L | EPA 300 | K Baros | 6/7/2017 23:48 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 6.89 | SU | SM 4500-H+B | C Watts | 6/7/2017 11:00 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 678 | mg/L | SM2540C | C Watts | 6/9/2017 15:00 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 6/13/2017 13:25 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 57 | mg/L | EPA 300 | K Baros | 6/7/2017 23:48 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 6/30/2017 8:49 | | | | | | <input checked="" type="checkbox"/> ARS International |



Sample Report Information



| | | | | | |
|------------|------------|------------|-------|----------|--------|
| Sample ID: | S17157180H | Client ID: | BV-21 | Sampler: | Client |
|------------|------------|------------|-------|----------|--------|

Client: **Coletto Creek Power - R Coleman**

Study: **Water**

Project: **CCR Sampling**

Location: **BV 21**

Notes:

Batch No: **56182**

Sampled: **6/6/2017**

10:07 AM

Type: **Grab**

Matrix: **Water**

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 40 | mg/L | EPA 300 | K Baros | 6/8/2017 0:26 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 244 | mg/L | SM 2320 B | | 6/14/2017 12:35 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/14/2017 12:35 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 244 | mg/L | SM 2320 B | | 6/14/2017 12:35 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.59 | mg/L | EPA 300 | K Baros | 6/8/2017 0:26 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.1 | SU | SM 4500-H+B | C Watts | 6/7/2017 11:00 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 452 | mg/L | SM2540C | C Watts | 6/9/2017 15:00 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 6/13/2017 13:27 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 49 | mg/L | EPA 300 | K Baros | 6/8/2017 0:26 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 6/30/2017 8:49 | | | | | | <input checked="" type="checkbox"/> ARS International |



Sample Report Information



| | | | | | |
|------------|-------------------|------------|--------------|----------|---------------|
| Sample ID: | S17157180I | Client ID: | BV-22 | Sampler: | Client |
|------------|-------------------|------------|--------------|----------|---------------|

Client: **Coletto Creek Power - R Coleman**
 Study: **Water**
 Project: **CCR Sampling**
 Location: **BV 22**
 Notes:

Batch No: **56182**
 Sampled: **6/6/2017 9:37 AM**
 Type: **Grab**
 Matrix: **Water**

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 38 | mg/L | EPA 300 | K Baros | 6/8/2017 1:04 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 242 | mg/L | SM 2320 B | | 6/14/2017 12:50 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/14/2017 12:50 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 242 | mg/L | SM 2320 B | | 6/14/2017 12:50 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.52 | mg/L | EPA 300 | K Baros | 6/8/2017 1:04 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.17 | SU | SM 4500-H+B | C Watts | 6/7/2017 11:00 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 426 | mg/L | SM2540C | C Watts | 6/9/2017 15:00 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 6/13/2017 13:29 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 30 | mg/L | EPA 300 | K Baros | 6/8/2017 1:04 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 6/30/2017 8:50 | | | | | | <input checked="" type="checkbox"/> ARS International |



B Environmental, LLC.
1606 E Brazos, Suite D

BatchNo: 56182

Victoria TX 77901



QA Summary Report

| Parameter | ID | Result | Ref Value | Amt Added | LOQ | Qualifier | Control | Flag | Comments |
|------------------------------------|------------|-----------|-----------|-----------|------|-----------|----------|------|-------------------------------|
| Method Blank | | | | | | | | | |
| - Chloride, IC | Q171631953 | <1mg/L | 0 | | 1 | | 1 | | Blank Acceptable. |
| 6/7/2017 15:33 | | | | | | | | | |
| Fluoride, IC | Q171631953 | <0.25mg/L | 0 | 0.25 | | | 0.25 | | Blank Acceptable. |
| 6/7/2017 15:33 | | | | | | | | | |
| Solids, Total Dissolved | Q171601257 | <25mg/L | 0 | | 10 | | 25 | | Blank Acceptable. |
| 6/8/2017 15:00 | | | | | | | | | |
| Solids, Total Dissolved | Q171631612 | <25mg/L | 0 | | 10 | | 25 | | Blank Acceptable. |
| 6/9/2017 15:00 | | | | | | | | | |
| Sulfate, IC | Q171631953 | <1mg/L | 0 | | 1 | | 1 | | Blank Acceptable. |
| 6/7/2017 15:33 | | | | | | | | | |
| Duplicate | | | | | | | | | |
| pH (Standard Units) | Q171581241 | 6.92SU | 6.87 | | 2 | 0.7% | 20 | | Duplicate RPD Acceptable. |
| 6/7/2017 11:00 | | | | | | | | | |
| Solids, Total Dissolved | Q171631613 | 726mg/L | 728 | | 10 | 0.3% | 20 | | Duplicate RPD Acceptable. |
| 6/9/2017 15:00 | | | | | | | | | |
| Solids, Total Dissolved | Q171601300 | 3550mg/L | 3590 | | 10 | 1.1% | 20 | | Duplicate RPD Acceptable. |
| 6/8/2017 15:00 | | | | | | | | | |
| Laboratory Control Standard | | | | | | | | | |
| - Chloride, IC | Q171631955 | 25.7mg/L | 25 | | 1 | 102.8% | 80 - 120 | | Standard Recovery Acceptable. |
| 6/7/2017 16:11 | | | | | | 2.8% | 20 | | Standard RPD Acceptable. |
| Fluoride, IC | Q171631955 | 2.08mg/L | 2 | 0.25 | | 104.0% | 80 - 120 | | Standard Recovery Acceptable. |
| 6/7/2017 16:11 | | | | | | 3.9% | 20 | | Standard RPD Acceptable. |
| pH (Standard Units) | Q171581240 | 7.01SU | 7 | | 2 | 100.1% | 80 - 120 | | Standard Recovery Acceptable. |
| 6/7/2017 11:00 | | | | | | 0.1% | 20 | | Standard RPD Acceptable. |
| Sulfate, IC | Q171631955 | 26.2mg/L | 25 | | 1 | 104.8% | 80 - 120 | | Standard Recovery Acceptable. |
| 6/7/2017 16:11 | | | | | | 4.7% | 20 | | Standard RPD Acceptable. |
| Matrix Spike | | | | | | | | | |
| - Chloride, IC | Q17163195A | 116mg/L | 115.9 | 25 | 1 | 100.4% | 80 - 120 | | Spike Recovery Acceptable. |
| 6/7/2017 18:42 | | | | | | 0.1% | 20 | | Spike RPD Acceptable. |
| Fluoride, IC | Q17163195A | 2.43mg/L | 2.57 | 2 | 0.25 | 93.0% | 80 - 120 | | Spike Recovery Acceptable. |
| 6/7/2017 18:42 | | | | | | 5.6% | 20 | | Spike RPD Acceptable. |
| Sulfate, IC | Q17163195A | 166mg/L | 166.3 | 25 | 1 | 98.8% | 70 - 130 | | Spike Recovery Acceptable. |
| 6/7/2017 18:42 | | | | | | 0.2% | 20 | | Spike RPD Acceptable. |
| Matrix Spike Dup | | | | | | | | | |
| - Chloride, IC | Q17163195B | 116mg/L | 115.9 | 25 | 1 | 100.4% | 80 - 120 | | Spike Recovery Acceptable. |
| 6/7/2017 19:21 | | | | | | 0.1% | 20 | | Spike RPD Acceptable. |
| Fluoride, IC | Q17163195B | 2.41mg/L | 2.57 | 2 | 0.25 | 92.0% | 80 - 120 | | Spike Recovery Acceptable. |
| 6/7/2017 19:21 | | | | | | 6.4% | 20 | | Spike RPD Acceptable. |
| Sulfate, IC | Q17163195B | 166mg/L | 166.3 | 25 | 1 | 98.8% | 70 - 130 | | Spike Recovery Acceptable. |
| 6/7/2017 19:21 | | | | | | 0.2% | 20 | | Spike RPD Acceptable. |



B Environmental, LLC. 1606 E Brazos, Suite D Victoria TX 77901

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B Environmental, LLC.
1606 E Brazos, Suite D

BatchNo: 56182

Victoria TX 77901

Flag and Qualifier Legend



Negative - Result Detected

MDL = Method Detection Limit

DF = Dilution Factor



Caution - Problem Detected

LOQ = Limit of Quantitation

j = Analyte detected between MDL and LOQ



Warning - Null Value

S = surrogate standard out of limit

H = sample out of hold time



MS, MSD, RPD- Failure may occur due to matrix interference, data released per QA plan

Wednesday, July 12, 2017

B Environmental - LDMS QA Report Summary

Note:

THANK YOU!



B Environmental, LLC.

1606 E Brazos, Suite D

Victoria TX

77901

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DHL Analytical, Inc.

Date: 15-Jun-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Lab Order: 1706089

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition and Standard Methods.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives except where noted in the following. For Total Metals Analysis, the recoveries of three analytes for the Matrix Spike and Matrix Spike Duplicate (1706089-03 MS/MSD) were below the method control limits. These are flagged accordingly in the QC Summary Report. These analytes were within method control limits in the associated LCS. No further corrective action was taken.

For Total Metals Analysis, the recovery of Magnesium for the Post Digestion Spike (1706089-03 PDS) was below the method control limits. This is flagged accordingly in the QC Summary Report. This analyte was within method control limits in the associated Serial Dilution. No further corrective action was taken.

The Dissolved/Total Metals Analysis, the results of Dissolved Lithium/Molybdenum for eight samples were slightly higher than the results of the Total Lithium/Molybdenum. The results were within acceptable analytical variation limits. No further corrective action was taken.

DHL Analytical, Inc.

Date: 15-Jun-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (56182)
Lab Order: 1706089

Client Sample ID: Dup 1
Lab ID: 1706089-01
Alternate ID: S171571808
Collection Date: 06/06/17
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|------|----------------|----|---------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | | | | Analyst: SP |
| Dissolved Lithium | 0.00885 | 0.00500 | 0.0100 | J | mg/L | 1 | 06/12/17 12:45 PM |
| Dissolved Molybdenum | 0.0172 | 0.00200 | 0.00500 | | mg/L | 1 | 06/12/17 12:45 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | | | | Analyst: SP |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 06/13/17 12:58 PM |
| Arsenic | 0.00906 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 12:58 PM |
| Barium | 0.0613 | 0.00300 | 0.0100 | | mg/L | 1 | 06/13/17 12:58 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 12:58 PM |
| Boron | 1.17 | 0.100 | 0.300 | | mg/L | 10 | 06/13/17 11:52 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 12:58 PM |
| Calcium | 79.3 | 1.00 | 3.00 | | mg/L | 10 | 06/13/17 11:52 AM |
| Chromium | 0.00612 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 12:58 PM |
| Cobalt | 0.0297 | 0.00300 | 0.00500 | | mg/L | 1 | 06/13/17 12:58 PM |
| Lead | 0.000464 | 0.000300 | 0.00100 | J | mg/L | 1 | 06/13/17 12:58 PM |
| Lithium | 0.0107 | 0.00500 | 0.0100 | | mg/L | 1 | 06/13/17 12:58 PM |
| Magnesium | 12.0 | 0.100 | 0.300 | | mg/L | 1 | 06/13/17 12:58 PM |
| Molybdenum | 0.0157 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 12:58 PM |
| Potassium | 0.961 | 0.100 | 0.300 | | mg/L | 1 | 06/13/17 12:58 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 12:58 PM |
| Sodium | 89.2 | 1.00 | 3.00 | | mg/L | 10 | 06/13/17 11:52 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 06/13/17 12:58 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | | | Analyst: AH |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 06/12/17 11:08 AM |
| ALKALINITY | | M2320 B | | | | | Analyst: BTJ |
| Alkalinity, Bicarbonate (As CaCO3) | 269 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/14/17 11:13 AM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/14/17 11:13 AM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/14/17 11:13 AM |
| Alkalinity, Total (As CaCO3) | 269 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/14/17 11:13 AM |

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 15-Jun-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (56182)
Lab Order: 1706089

Client Sample ID: Blank
Lab ID: 1706089-02
Alternate ID: S17157180A
Collection Date: 06/06/17 03:15 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|------|---------------|----|---------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | | | | Analyst: SP |
| Dissolved Lithium | <0.00500 | 0.00500 | 0.0100 | | mg/L | 1 | 06/12/17 12:47 PM |
| Dissolved Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/12/17 12:47 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | | | | Analyst: SP |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 06/13/17 12:32 PM |
| Arsenic | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 12:32 PM |
| Barium | <0.00300 | 0.00300 | 0.0100 | | mg/L | 1 | 06/13/17 12:32 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 12:32 PM |
| Boron | <0.0100 | 0.0100 | 0.0300 | | mg/L | 1 | 06/13/17 12:32 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 12:32 PM |
| Calcium | <0.100 | 0.100 | 0.300 | | mg/L | 1 | 06/13/17 12:32 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 12:32 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 06/13/17 12:32 PM |
| Lead | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 12:32 PM |
| Lithium | <0.00500 | 0.00500 | 0.0100 | | mg/L | 1 | 06/13/17 12:32 PM |
| Magnesium | <0.100 | 0.100 | 0.300 | | mg/L | 1 | 06/13/17 12:32 PM |
| Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 12:32 PM |
| Potassium | <0.100 | 0.100 | 0.300 | | mg/L | 1 | 06/13/17 12:32 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 12:32 PM |
| Sodium | <0.100 | 0.100 | 0.300 | | mg/L | 1 | 06/13/17 12:32 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 06/13/17 12:32 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | | | Analyst: AH |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 06/12/17 11:15 AM |
| ALKALINITY | | M2320 B | | | | | Analyst: BTJ |
| Alkalinity, Bicarbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.3 | 1 | 06/14/17 11:14 AM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.3 | 1 | 06/14/17 11:14 AM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.3 | 1 | 06/14/17 11:14 AM |
| Alkalinity, Total (As CaCO3) | <20.0 | 20.0 | 20.0 | | mg/L @ pH 4.3 | 1 | 06/14/17 11:14 AM |

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds TCLP Maximum Concentration Level | B Analyte detected in the associated Method Blank |
| | C Sample Result or QC discussed in the Case Narrative | DF Dilution Factor |
| | E TPH pattern not Gas or Diesel Range Pattern | J Analyte detected between MDL and RL |
| | MDL Method Detection Limit | ND Not Detected at the Method Detection Limit |
| | RL Reporting Limit | S Spike Recovery outside control limits |

DHL Analytical, Inc.

Date: 15-Jun-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR (56182)
Lab Order: 1706089

Client Sample ID: MW-4
Lab ID: 1706089-03
Alternate ID: S17157180B
Collection Date: 06/06/17 11:28 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 0.0177 | 0.00500 | 0.0100 | | mg/L | 1 | 06/12/17 12:39 PM |
| Dissolved Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/12/17 12:39 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 06/13/17 12:48 PM |
| Arsenic | 0.00770 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 12:48 PM |
| Barium | 0.0556 | 0.00300 | 0.0100 | | mg/L | 1 | 06/13/17 12:48 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 12:48 PM |
| Boron | 0.243 | 0.0100 | 0.0300 | | mg/L | 1 | 06/14/17 11:01 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 12:48 PM |
| Calcium | 90.7 | 1.00 | 3.00 | | mg/L | 10 | 06/13/17 11:42 AM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 12:48 PM |
| Cobalt | 0.00688 | 0.00300 | 0.00500 | | mg/L | 1 | 06/13/17 12:48 PM |
| Lead | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 12:48 PM |
| Lithium | 0.0179 | 0.00500 | 0.0100 | | mg/L | 1 | 06/13/17 12:48 PM |
| Magnesium | 17.0 | 0.100 | 0.300 | | mg/L | 1 | 06/13/17 12:48 PM |
| Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 12:48 PM |
| Potassium | 1.39 | 0.100 | 0.300 | | mg/L | 1 | 06/13/17 12:48 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 12:48 PM |
| Sodium | 108 | 1.00 | 3.00 | | mg/L | 10 | 06/13/17 11:42 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 06/13/17 12:48 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 06/12/17 11:17 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 249 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/14/17 11:24 AM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/14/17 11:24 AM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/14/17 11:24 AM |
| Alkalinity, Total (As CaCO3) | 249 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/14/17 11:24 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 15-Jun-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (56182)
Lab Order: 1706089

Client Sample ID: MW-8
Lab ID: 1706089-04
Alternate ID: S17157180C
Collection Date: 06/06/17 08:53 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|-----------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 0.0111 | 0.00500 | 0.0100 | | mg/L | 1 | 06/12/17 12:49 PM |
| Dissolved Molybdenum | 0.0177 | 0.00200 | 0.00500 | | mg/L | 1 | 06/12/17 12:49 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 06/13/17 01:02 PM |
| Arsenic | 0.00913 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:02 PM |
| Barium | 0.0616 | 0.00300 | 0.0100 | | mg/L | 1 | 06/13/17 01:02 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 01:02 PM |
| Boron | 1.26 | 0.100 | 0.300 | | mg/L | 10 | 06/13/17 11:56 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 01:02 PM |
| Calcium | 78.1 | 1.00 | 3.00 | | mg/L | 10 | 06/13/17 11:56 AM |
| Chromium | 0.00744 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:02 PM |
| Cobalt | 0.0308 | 0.00300 | 0.00500 | | mg/L | 1 | 06/13/17 01:02 PM |
| Lead | 0.000626 | 0.000300 | 0.00100 | J | mg/L | 1 | 06/13/17 01:02 PM |
| Lithium | 0.0107 | 0.00500 | 0.0100 | | mg/L | 1 | 06/13/17 01:02 PM |
| Magnesium | 11.7 | 0.100 | 0.300 | | mg/L | 1 | 06/13/17 01:02 PM |
| Molybdenum | 0.0157 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:02 PM |
| Potassium | 0.951 | 0.100 | 0.300 | | mg/L | 1 | 06/13/17 01:02 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:02 PM |
| Sodium | 88.5 | 1.00 | 3.00 | | mg/L | 10 | 06/13/17 11:56 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 06/13/17 01:02 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.000800 | 0.000800 | 0.000200 | | mg/L | 1 | 06/12/17 11:29 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 271 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/14/17 11:42 AM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/14/17 11:42 AM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/14/17 11:42 AM |
| Alkalinity, Total (As CaCO3) | 271 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/14/17 11:42 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern J Analyte detected between MDL and RL
 MDL Method Detection Limit ND Not Detected at the Method Detection Limit
 RL Reporting Limit S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 15-Jun-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (56182)
Lab Order: 1706089

Client Sample ID: BV-1
Lab ID: 1706089-05
Alternate ID: S17157180D
Collection Date: 06/06/17 02:34 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 0.0156 | 0.00500 | 0.0100 | | mg/L | 1 | 06/12/17 12:51 PM |
| Dissolved Molybdenum | 0.00491 | 0.00200 | 0.00500 | J | mg/L | 1 | 06/12/17 12:51 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 06/13/17 01:04 PM |
| Arsenic | 0.0105 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:04 PM |
| Barium | 0.0472 | 0.00300 | 0.0100 | | mg/L | 1 | 06/13/17 01:04 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 01:04 PM |
| Boron | 1.30 | 0.100 | 0.300 | | mg/L | 10 | 06/13/17 11:58 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 01:04 PM |
| Calcium | 69.1 | 1.00 | 3.00 | | mg/L | 10 | 06/13/17 11:58 AM |
| Chromium | 0.00899 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:04 PM |
| Cobalt | 0.386 | 0.00300 | 0.00500 | | mg/L | 1 | 06/13/17 01:04 PM |
| Lead | 0.00495 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 01:04 PM |
| Lithium | 0.0153 | 0.00500 | 0.0100 | | mg/L | 1 | 06/13/17 01:04 PM |
| Magnesium | 10.2 | 0.100 | 0.300 | | mg/L | 1 | 06/13/17 01:04 PM |
| Molybdenum | 0.00423 | 0.00200 | 0.00500 | J | mg/L | 1 | 06/13/17 01:04 PM |
| Potassium | 0.580 | 0.100 | 0.300 | | mg/L | 1 | 06/13/17 01:04 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:04 PM |
| Sodium | 261 | 2.00 | 6.00 | | mg/L | 20 | 06/13/17 12:34 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 06/13/17 01:04 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 06/12/17 11:31 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 403 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 06/14/17 11:56 AM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 06/14/17 11:56 AM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 06/14/17 11:56 AM |
| Alkalinity, Total (As CaCO3) | 403 | 20.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 06/14/17 11:56 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern
 J Analyte detected between MDL and RL
 MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 15-Jun-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (56182)
Lab Order: 1706089

Client Sample ID: BV-10
Lab ID: 1706089-06
Alternate ID: S17157180E
Collection Date: 06/06/17 02:04 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|--------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 0.0119 | 0.00500 | 0.0100 | | mg/L | 1 | 06/12/17 12:53 PM |
| Dissolved Molybdenum | 0.00895 | 0.00200 | 0.00500 | | mg/L | 1 | 06/12/17 12:53 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 06/13/17 01:06 PM |
| Arsenic | 0.0129 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:06 PM |
| Barium | 0.0468 | 0.00300 | 0.0100 | | mg/L | 1 | 06/13/17 01:06 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 01:06 PM |
| Boron | 1.11 | 0.100 | 0.300 | | mg/L | 10 | 06/13/17 12:00 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 01:06 PM |
| Calcium | 39.5 | 1.00 | 3.00 | | mg/L | 10 | 06/13/17 12:00 PM |
| Chromium | 0.00406 | 0.00200 | 0.00500 | J | mg/L | 1 | 06/13/17 01:06 PM |
| Cobalt | 0.210 | 0.00300 | 0.00500 | | mg/L | 1 | 06/13/17 01:06 PM |
| Lead | 0.00519 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 01:06 PM |
| Lithium | 0.0107 | 0.00500 | 0.0100 | | mg/L | 1 | 06/13/17 01:06 PM |
| Magnesium | 6.60 | 0.100 | 0.300 | | mg/L | 1 | 06/13/17 01:06 PM |
| Molybdenum | 0.00788 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:06 PM |
| Potassium | 0.713 | 0.100 | 0.300 | | mg/L | 1 | 06/13/17 01:06 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:06 PM |
| Sodium | 169 | 1.00 | 3.00 | | mg/L | 10 | 06/13/17 12:00 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 06/13/17 01:06 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 06/12/17 11:33 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 300 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/14/17 12:07 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/14/17 12:07 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/14/17 12:07 PM |
| Alkalinity, Total (As CaCO3) | 300 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/14/17 12:07 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 15-Jun-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (56182)
Lab Order: 1706089

Client Sample ID: BV-15
Lab ID: 1706089-07
Alternate ID: S17157180F
Collection Date: 06/06/17 10:40 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|------|----------------|----|---------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | | | | Analyst: SP |
| Dissolved Lithium | 0.00660 | 0.00500 | 0.0100 | J | mg/L | 1 | 06/12/17 12:55 PM |
| Dissolved Molybdenum | 0.0207 | 0.00200 | 0.00500 | | mg/L | 1 | 06/12/17 12:55 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | | | | Analyst: SP |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 06/13/17 01:08 PM |
| Arsenic | 0.00884 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:08 PM |
| Barium | 0.0497 | 0.00300 | 0.0100 | | mg/L | 1 | 06/13/17 01:08 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 01:08 PM |
| Boron | 1.24 | 0.100 | 0.300 | | mg/L | 10 | 06/13/17 12:02 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 01:08 PM |
| Calcium | 61.5 | 1.00 | 3.00 | | mg/L | 10 | 06/13/17 12:02 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:08 PM |
| Cobalt | 0.0133 | 0.00300 | 0.00500 | | mg/L | 1 | 06/13/17 01:08 PM |
| Lead | 0.00469 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 01:08 PM |
| Lithium | 0.00665 | 0.00500 | 0.0100 | J | mg/L | 1 | 06/13/17 01:08 PM |
| Magnesium | 8.09 | 0.100 | 0.300 | | mg/L | 1 | 06/13/17 01:08 PM |
| Molybdenum | 0.0180 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:08 PM |
| Potassium | 1.07 | 0.100 | 0.300 | | mg/L | 1 | 06/13/17 01:08 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:08 PM |
| Sodium | 74.4 | 1.00 | 3.00 | | mg/L | 10 | 06/13/17 12:02 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 06/13/17 01:08 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | | | Analyst: AH |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 06/12/17 11:36 AM |
| ALKALINITY | | M2320 B | | | | | Analyst: BTJ |
| Alkalinity, Bicarbonate (As CaCO3) | 199 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/14/17 12:14 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/14/17 12:14 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/14/17 12:14 PM |
| Alkalinity, Total (As CaCO3) | 199 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/14/17 12:14 PM |

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 15-Jun-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (56182)
Lab Order: 1706089

Client Sample ID: BV-19
Lab ID: 1706089-08
Alternate ID: S17157180G
Collection Date: 06/06/17 01:32 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 0.0146 | 0.00500 | 0.0100 | | mg/L | 1 | 06/12/17 12:57 PM |
| Dissolved Molybdenum | 0.00528 | 0.00200 | 0.00500 | | mg/L | 1 | 06/12/17 12:57 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 06/13/17 01:25 PM |
| Arsenic | 0.00784 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:25 PM |
| Barium | 0.0853 | 0.00300 | 0.0100 | | mg/L | 1 | 06/13/17 01:25 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 01:25 PM |
| Boron | 0.734 | 0.100 | 0.300 | | mg/L | 10 | 06/13/17 12:22 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 01:25 PM |
| Calcium | 97.9 | 1.00 | 3.00 | | mg/L | 10 | 06/13/17 12:22 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:25 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 06/13/17 01:25 PM |
| Lead | 0.000308 | 0.000300 | 0.00100 | J | mg/L | 1 | 06/13/17 01:25 PM |
| Lithium | 0.0129 | 0.00500 | 0.0100 | | mg/L | 1 | 06/13/17 01:25 PM |
| Magnesium | 21.8 | 0.100 | 0.300 | | mg/L | 1 | 06/13/17 01:25 PM |
| Molybdenum | 0.00470 | 0.00200 | 0.00500 | J | mg/L | 1 | 06/13/17 01:25 PM |
| Potassium | 0.636 | 0.100 | 0.300 | | mg/L | 1 | 06/13/17 01:25 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:25 PM |
| Sodium | 84.2 | 1.00 | 3.00 | | mg/L | 10 | 06/13/17 12:22 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 06/13/17 01:25 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 06/12/17 11:38 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 336 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/14/17 12:26 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/14/17 12:26 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/14/17 12:26 PM |
| Alkalinity, Total (As CaCO3) | 336 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/14/17 12:26 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 15-Jun-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (56182)
Lab Order: 1706089

Client Sample ID: BV-21
Lab ID: 1706089-09
Alternate ID: S17157180H
Collection Date: 06/06/17 10:07 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 0.00528 | 0.00500 | 0.0100 | J | mg/L | 1 | 06/12/17 12:59 PM |
| Dissolved Molybdenum | 0.00276 | 0.00200 | 0.00500 | J | mg/L | 1 | 06/12/17 12:59 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 06/13/17 01:27 PM |
| Arsenic | 0.118 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:27 PM |
| Barium | 0.0954 | 0.00300 | 0.0100 | | mg/L | 1 | 06/13/17 01:27 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 01:27 PM |
| Boron | 0.657 | 0.100 | 0.300 | | mg/L | 10 | 06/13/17 12:24 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 01:27 PM |
| Calcium | 69.0 | 1.00 | 3.00 | | mg/L | 10 | 06/13/17 12:24 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:27 PM |
| Cobalt | 0.00806 | 0.00300 | 0.00500 | | mg/L | 1 | 06/13/17 01:27 PM |
| Lead | 0.000644 | 0.000300 | 0.00100 | J | mg/L | 1 | 06/13/17 01:27 PM |
| Lithium | <0.00500 | 0.00500 | 0.0100 | | mg/L | 1 | 06/13/17 01:27 PM |
| Magnesium | 7.67 | 0.100 | 0.300 | | mg/L | 1 | 06/13/17 01:27 PM |
| Molybdenum | 0.00244 | 0.00200 | 0.00500 | J | mg/L | 1 | 06/13/17 01:27 PM |
| Potassium | 0.792 | 0.100 | 0.300 | | mg/L | 1 | 06/13/17 01:27 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:27 PM |
| Sodium | 60.8 | 1.00 | 3.00 | | mg/L | 10 | 06/13/17 12:24 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 06/13/17 01:27 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 06/12/17 11:40 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 244 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/14/17 12:35 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/14/17 12:35 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/14/17 12:35 PM |
| Alkalinity, Total (As CaCO3) | 244 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/14/17 12:35 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 15-Jun-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (56182)
Lab Order: 1706089

Client Sample ID: BV-22
Lab ID: 1706089-10
Alternate ID: S17157180I
Collection Date: 06/06/17 09:37 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 0.00699 | 0.00500 | 0.0100 | J | mg/L | 1 | 06/12/17 01:15 PM |
| Dissolved Molybdenum | 0.00882 | 0.00200 | 0.00500 | | mg/L | 1 | 06/12/17 01:15 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 06/13/17 01:29 PM |
| Arsenic | 0.00661 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:29 PM |
| Barium | 0.0453 | 0.00300 | 0.0100 | | mg/L | 1 | 06/13/17 01:29 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 01:29 PM |
| Boron | 0.606 | 0.100 | 0.300 | | mg/L | 10 | 06/13/17 12:26 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 01:29 PM |
| Calcium | 65.9 | 1.00 | 3.00 | | mg/L | 10 | 06/13/17 12:26 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:29 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 06/13/17 01:29 PM |
| Lead | 0.000887 | 0.000300 | 0.00100 | J | mg/L | 1 | 06/13/17 01:29 PM |
| Lithium | 0.00603 | 0.00500 | 0.0100 | J | mg/L | 1 | 06/13/17 01:29 PM |
| Magnesium | 9.12 | 0.100 | 0.300 | | mg/L | 1 | 06/13/17 01:29 PM |
| Molybdenum | 0.00793 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:29 PM |
| Potassium | 0.882 | 0.100 | 0.300 | | mg/L | 1 | 06/13/17 01:29 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:29 PM |
| Sodium | 59.1 | 1.00 | 3.00 | | mg/L | 10 | 06/13/17 12:26 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 06/13/17 01:29 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 06/12/17 11:42 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 242 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/14/17 12:50 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/14/17 12:50 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/14/17 12:50 PM |
| Alkalinity, Total (As CaCO3) | 242 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/14/17 12:50 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern J Analyte detected between MDL and RL
 MDL Method Detection Limit ND Not Detected at the Method Detection Limit
 RL Reporting Limit S Spike Recovery outside control limits Page 10 of 10

DHL Analytical, Inc.

Date: 15-Jun-17

CLIENT: B-Environmental
Work Order: 1706089
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_170612A

The QC data in batch 80834 applies to the following samples: 1706089-01A, 1706089-02A, 1706089-03A, 1706089-04A, 1706089-05A, 1706089-06A, 1706089-07A, 1706089-08A, 1706089-09A, 1706089-10A

| | | | |
|---------------------------|----------------------------------|---|----------------------------|
| Sample ID MB-80834 | Batch ID: 80834 | TestNo: SW7470A | Units: mg/L |
| SampType: MBLK | Run ID: CETAC2_HG_170612A | Analysis Date: 6/12/2017 10:41:33 AM | Prep Date: 6/9/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|------------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | <0.0000800 | 0.000200 | | | | | | | | |

| | | | |
|----------------------------|----------------------------------|---|----------------------------|
| Sample ID LCS-80834 | Batch ID: 80834 | TestNo: SW7470A | Units: mg/L |
| SampType: LCS | Run ID: CETAC2_HG_170612A | Analysis Date: 6/12/2017 10:43:49 AM | Prep Date: 6/9/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00211 | 0.000200 | 0.00200 | 0 | 106 | 85 | 115 | | | |

| | | | |
|-----------------------------|----------------------------------|---|----------------------------|
| Sample ID LCSD-80834 | Batch ID: 80834 | TestNo: SW7470A | Units: mg/L |
| SampType: LCSD | Run ID: CETAC2_HG_170612A | Analysis Date: 6/12/2017 10:46:05 AM | Prep Date: 6/9/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00211 | 0.000200 | 0.00200 | 0 | 106 | 85 | 115 | 0 | 15 | |

| | | | |
|---------------------------------|----------------------------------|---|----------------------------|
| Sample ID 1706089-03A SD | Batch ID: 80834 | TestNo: SW7470A | Units: mg/L |
| SampType: SD | Run ID: CETAC2_HG_170612A | Analysis Date: 6/12/2017 11:20:08 AM | Prep Date: 6/9/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|-----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | <0.000400 | 0.00100 | 0 | 0 | | | | 0 | 10 | |

| | | | |
|----------------------------------|----------------------------------|---|----------------------------|
| Sample ID 1706089-03A PDS | Batch ID: 80834 | TestNo: SW7470A | Units: mg/L |
| SampType: PDS | Run ID: CETAC2_HG_170612A | Analysis Date: 6/12/2017 11:22:25 AM | Prep Date: 6/9/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00234 | 0.000200 | 0.00250 | 0 | 93.6 | 85 | 115 | | | |

| | | | |
|---------------------------------|----------------------------------|---|----------------------------|
| Sample ID 1706089-03A MS | Batch ID: 80834 | TestNo: SW7470A | Units: mg/L |
| SampType: MS | Run ID: CETAC2_HG_170612A | Analysis Date: 6/12/2017 11:24:41 AM | Prep Date: 6/9/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00198 | 0.000200 | 0.00200 | 0 | 99.0 | 80 | 120 | | | |

| | | | |
|----------------------------------|----------------------------------|---|----------------------------|
| Sample ID 1706089-03A MSD | Batch ID: 80834 | TestNo: SW7470A | Units: mg/L |
| SampType: MSD | Run ID: CETAC2_HG_170612A | Analysis Date: 6/12/2017 11:26:57 AM | Prep Date: 6/9/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00204 | 0.000200 | 0.00200 | 0 | 102 | 80 | 120 | 2.99 | 15 | |

| | | | |
|--------------------|---|---|--|
| Qualifiers: | B Analyte detected in the associated Method Blank | DF Dilution Factor | |
| | J Analyte detected between MDL and RL | MDL Method Detection Limit | |
| | ND Not Detected at the Method Detection Limit | R RPD outside accepted control limits | |
| | RL Reporting Limit | S Spike Recovery outside control limits | |
| | J Analyte detected between SDL and RL | N Parameter not NELAC certified | |

CLIENT: B-Environmental
Work Order: 1706089
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170612A

The QC data in batch 80831 applies to the following samples: 1706089-01B, 1706089-02B, 1706089-03B, 1706089-04B, 1706089-05B, 1706089-06B, 1706089-07B, 1706089-08B, 1706089-09B, 1706089-10B

| | | | |
|---------------------------|--------------------------------|---|--|
| Sample ID MB-80831 | Batch ID: 80831 | TestNo: SW6020A | Units: mg/L |
| SampType: MBLK | Run ID: ICP-MS4_170612A | Analysis Date: 6/12/2017 12:31:00 PM | Prep Date: 6/9/2017 |
| Analyte | Result | RL | SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Lithium | <0.00500 | 0.0100 | |
| Molybdenum | <0.00200 | 0.00500 | |

| | | | |
|----------------------------|--------------------------------|---|--|
| Sample ID LCS-80831 | Batch ID: 80831 | TestNo: SW6020A | Units: mg/L |
| SampType: LCS | Run ID: ICP-MS4_170612A | Analysis Date: 6/12/2017 12:33:00 PM | Prep Date: 6/9/2017 |
| Analyte | Result | RL | SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Lithium | 0.191 | 0.0100 | 0.200 0 95.6 80 120 |
| Molybdenum | 0.204 | 0.00500 | 0.200 0 102 80 120 |

| | | | |
|-----------------------------|--------------------------------|---|--|
| Sample ID LCSD-80831 | Batch ID: 80831 | TestNo: SW6020A | Units: mg/L |
| SampType: LCSD | Run ID: ICP-MS4_170612A | Analysis Date: 6/12/2017 12:35:00 PM | Prep Date: 6/9/2017 |
| Analyte | Result | RL | SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Lithium | 0.193 | 0.0100 | 0.200 0 96.4 80 120 0.898 15 |
| Molybdenum | 0.200 | 0.00500 | 0.200 0 100 80 120 2.06 15 |

| | | | |
|---------------------------------|--------------------------------|---|--|
| Sample ID 1706089-03B SD | Batch ID: 80831 | TestNo: SW6020A | Units: mg/L |
| SampType: SD | Run ID: ICP-MS4_170612A | Analysis Date: 6/12/2017 12:41:00 PM | Prep Date: 6/9/2017 |
| Analyte | Result | RL | SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Lithium | <0.0250 | 0.0500 | 0 0.0177 0 10 |
| Molybdenum | <0.0100 | 0.0250 | 0 0 0 10 |

| | | | |
|----------------------------------|--------------------------------|--|--|
| Sample ID 1706089-03B PDS | Batch ID: 80831 | TestNo: SW6020A | Units: mg/L |
| SampType: PDS | Run ID: ICP-MS4_170612A | Analysis Date: 6/12/2017 1:01:00 PM | Prep Date: 6/9/2017 |
| Analyte | Result | RL | SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Lithium | 0.206 | 0.0100 | 0.200 0.0177 94.0 80 120 |
| Molybdenum | 0.205 | 0.00500 | 0.200 0 103 80 120 |

| | | | |
|---------------------------------|--------------------------------|--|--|
| Sample ID 1706089-03B MS | Batch ID: 80831 | TestNo: SW6020A | Units: mg/L |
| SampType: MS | Run ID: ICP-MS4_170612A | Analysis Date: 6/12/2017 1:03:00 PM | Prep Date: 6/9/2017 |
| Analyte | Result | RL | SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Dissolved Lithium | 0.212 | 0.0100 | 0.200 0.0177 96.9 80 120 |
| Dissolved Molybdenum | 0.208 | 0.00500 | 0.200 0 104 80 120 |

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
 J Analyte detected between MDL and RL MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
 RL Reporting Limit S Spike Recovery outside control limits
 J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706089
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170612A

| Sample ID: 1706089-03B MSD | Batch ID: 80831 | TestNo: SW6020A | Units: mg/L | | | | | | | |
|-----------------------------------|--------------------------------|--|----------------------------|---------|------|----------|-----------|-------|----------|------|
| SampType: MSD | Run ID: ICP-MS4_170612A | Analysis Date: 6/12/2017 1:05:00 PM | Prep Date: 6/9/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Dissolved Lithium | 0.202 | 0.0100 | 0.200 | 0.0177 | 92.4 | 80 | 120 | 4.38 | 15 | |
| Dissolved Molybdenum | 0.207 | 0.00500 | 0.200 | 0 | 104 | 80 | 120 | 0.379 | 15 | |

Qualifiers:

| | | | |
|----|---|-----|---------------------------------------|
| B | Analyte detected in the associated Method Blank | DF | Dilution Factor |
| J | Analyte detected between MDL and RL | MDL | Method Detection Limit |
| ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| RL | Reporting Limit | S | Spike Recovery outside control limits |
| J | Analyte detected between SDL and RL | N | Parameter not NELAC certified |

CLIENT: B-Environmental
Work Order: 1706089
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170613A

The QC data in batch 80842 applies to the following samples: 1706089-01A, 1706089-02A, 1706089-03A, 1706089-04A, 1706089-05A, 1706089-06A, 1706089-07A, 1706089-08A, 1706089-09A, 1706089-10A

| | | | |
|----------------------------|--------------------------------|---|-----------------------------|
| Sample ID: MB-80842 | Batch ID: 80842 | TestNo: SW6020A | Units: mg/L |
| SampType: MBLK | Run ID: ICP-MS4_170613A | Analysis Date: 6/13/2017 11:34:00 AM | Prep Date: 6/12/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|-----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | <0.000800 | 0.00250 | | | | | | | | |
| Arsenic | <0.00200 | 0.00500 | | | | | | | | |
| Barium | <0.00300 | 0.0100 | | | | | | | | |
| Beryllium | <0.000300 | 0.00100 | | | | | | | | |
| Boron | <0.0100 | 0.0300 | | | | | | | | |
| Cadmium | <0.000300 | 0.00100 | | | | | | | | |
| Calcium | <0.100 | 0.300 | | | | | | | | |
| Chromium | <0.00200 | 0.00500 | | | | | | | | |
| Cobalt | <0.00300 | 0.00500 | | | | | | | | |
| Lead | <0.000300 | 0.00100 | | | | | | | | |
| Lithium | <0.00500 | 0.0100 | | | | | | | | |
| Magnesium | <0.100 | 0.300 | | | | | | | | |
| Molybdenum | <0.00200 | 0.00500 | | | | | | | | |
| Potassium | <0.100 | 0.300 | | | | | | | | |
| Selenium | <0.00200 | 0.00500 | | | | | | | | |
| Sodium | <0.100 | 0.300 | | | | | | | | |
| Thallium | <0.000500 | 0.00150 | | | | | | | | |

| | | | |
|-----------------------------|--------------------------------|---|-----------------------------|
| Sample ID: LCS-80842 | Batch ID: 80842 | TestNo: SW6020A | Units: mg/L |
| SampType: LCS | Run ID: ICP-MS4_170613A | Analysis Date: 6/13/2017 11:36:00 AM | Prep Date: 6/12/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.194 | 0.00250 | 0.200 | 0 | 96.9 | 80 | 120 | | | |
| Arsenic | 0.199 | 0.00500 | 0.200 | 0 | 99.4 | 80 | 120 | | | |
| Barium | 0.193 | 0.0100 | 0.200 | 0 | 96.6 | 80 | 120 | | | |
| Beryllium | 0.206 | 0.00100 | 0.200 | 0 | 103 | 80 | 120 | | | |
| Boron | 0.197 | 0.0300 | 0.200 | 0 | 98.3 | 80 | 120 | | | |
| Cadmium | 0.200 | 0.00100 | 0.200 | 0 | 100 | 80 | 120 | | | |
| Calcium | 4.85 | 0.300 | 5.00 | 0 | 96.9 | 80 | 120 | | | |
| Chromium | 0.204 | 0.00500 | 0.200 | 0 | 102 | 80 | 120 | | | |
| Cobalt | 0.203 | 0.00500 | 0.200 | 0 | 101 | 80 | 120 | | | |
| Lead | 0.195 | 0.00100 | 0.200 | 0 | 97.3 | 80 | 120 | | | |
| Lithium | 0.202 | 0.0100 | 0.200 | 0 | 101 | 80 | 120 | | | |
| Magnesium | 5.10 | 0.300 | 5.00 | 0 | 102 | 80 | 120 | | | |
| Molybdenum | 0.192 | 0.00500 | 0.200 | 0 | 96.0 | 80 | 120 | | | |
| Potassium | 5.04 | 0.300 | 5.00 | 0 | 101 | 80 | 120 | | | |
| Selenium | 0.199 | 0.00500 | 0.200 | 0 | 99.4 | 80 | 120 | | | |
| Sodium | 5.09 | 0.300 | 5.00 | 0 | 102 | 80 | 120 | | | |
| Thallium | 0.199 | 0.00150 | 0.200 | 0 | 99.4 | 80 | 120 | | | |

| | |
|--|---|
| <p>Qualifiers:</p> <ul style="list-style-type: none"> B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | <ul style="list-style-type: none"> DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified |
|--|---|

CLIENT: B-Environmental
Work Order: 1706089
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170613A

| Sample ID: LCSD-80842 | Batch ID: 80842 | TestNo: SW6020A | Units: mg/L | | | | | | | |
|------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|-------|----------|------|
| SampType: LCSD | Run ID: ICP-MS4_170613A | Analysis Date: 6/13/2017 11:38:00 AM | Prep Date: 6/12/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Antimony | 0.197 | 0.00250 | 0.200 | 0 | 98.7 | 80 | 120 | 1.80 | 15 | |
| Arsenic | 0.199 | 0.00500 | 0.200 | 0 | 99.7 | 80 | 120 | 0.278 | 15 | |
| Barium | 0.197 | 0.0100 | 0.200 | 0 | 98.3 | 80 | 120 | 1.70 | 15 | |
| Beryllium | 0.206 | 0.00100 | 0.200 | 0 | 103 | 80 | 120 | 0.222 | 15 | |
| Boron | 0.199 | 0.0300 | 0.200 | 0 | 99.4 | 80 | 120 | 1.16 | 15 | |
| Cadmium | 0.202 | 0.00100 | 0.200 | 0 | 101 | 80 | 120 | 0.595 | 15 | |
| Calcium | 4.84 | 0.300 | 5.00 | 0 | 96.8 | 80 | 120 | 0.190 | 15 | |
| Chromium | 0.202 | 0.00500 | 0.200 | 0 | 101 | 80 | 120 | 0.638 | 15 | |
| Cobalt | 0.203 | 0.00500 | 0.200 | 0 | 101 | 80 | 120 | 0.196 | 15 | |
| Lead | 0.196 | 0.00100 | 0.200 | 0 | 98.1 | 80 | 120 | 0.773 | 15 | |
| Lithium | 0.199 | 0.0100 | 0.200 | 0 | 99.7 | 80 | 120 | 1.54 | 15 | |
| Magnesium | 5.07 | 0.300 | 5.00 | 0 | 101 | 80 | 120 | 0.619 | 15 | |
| Molybdenum | 0.194 | 0.00500 | 0.200 | 0 | 96.8 | 80 | 120 | 0.866 | 15 | |
| Potassium | 5.00 | 0.300 | 5.00 | 0 | 100 | 80 | 120 | 0.752 | 15 | |
| Selenium | 0.195 | 0.00500 | 0.200 | 0 | 97.7 | 80 | 120 | 1.73 | 15 | |
| Sodium | 5.02 | 0.300 | 5.00 | 0 | 100 | 80 | 120 | 1.51 | 15 | |
| Thallium | 0.201 | 0.00150 | 0.200 | 0 | 101 | 80 | 120 | 1.11 | 15 | |

| Sample ID: 1706089-03A SD | Batch ID: 80842 | TestNo: SW6020A | Units: mg/L | | | | | | | |
|----------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|-------|----------|------|
| SampType: SD | Run ID: ICP-MS4_170613A | Analysis Date: 6/13/2017 11:44:00 AM | Prep Date: 6/12/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Calcium | 90.7 | 15.0 | 0 | 90.7 | | | | 0.059 | 10 | |
| Sodium | 109 | 15.0 | 0 | 108 | | | | 1.05 | 10 | |

| Sample ID: 1706089-03A PDS | Batch ID: 80842 | TestNo: SW6020A | Units: mg/L | | | | | | | |
|-----------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: PDS | Run ID: ICP-MS4_170613A | Analysis Date: 6/13/2017 12:04:00 PM | Prep Date: 6/12/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Calcium | 135 | 3.00 | 50.0 | 90.7 | 88.4 | 80 | 120 | | | |
| Sodium | 155 | 3.00 | 50.0 | 108 | 93.4 | 80 | 120 | | | |

| Sample ID: 1706089-03A MS | Batch ID: 80842 | TestNo: SW6020A | Units: mg/L | | | | | | | |
|----------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: MS | Run ID: ICP-MS4_170613A | Analysis Date: 6/13/2017 12:06:00 PM | Prep Date: 6/12/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Calcium | 92.1 | 3.00 | 5.00 | 90.7 | 28.2 | 80 | 120 | | | S |
| Sodium | 109 | 3.00 | 5.00 | 108 | 19.4 | 80 | 120 | | | S |

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
 J Analyte detected between MDL and RL MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
 RL Reporting Limit S Spike Recovery outside control limits
 J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706089
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170613A

| Sample ID: 1706089-03A MSD | Batch ID: 80842 | TestNo: SW6020A | Units: mg/L | | | | | | | |
|-----------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|-------|----------|------|
| SampType: MSD | Run ID: ICP-MS4_170613A | Analysis Date: 6/13/2017 12:08:00 PM | Prep Date: 6/12/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Calcium | 92.1 | 3.00 | 5.00 | 90.7 | 28.3 | 80 | 120 | 0.001 | 15 | S |
| Sodium | 111 | 3.00 | 5.00 | 108 | 58.6 | 80 | 120 | 1.78 | 15 | S |

| Sample ID: 1706089-03A SD | Batch ID: 80842 | TestNo: SW6020A | Units: mg/L | | | | | | | |
|----------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: SD | Run ID: ICP-MS4_170613A | Analysis Date: 6/13/2017 12:50:00 PM | Prep Date: 6/12/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Antimony | <0.00400 | 0.0125 | 0 | 0 | | | | 0 | 10 | |
| Arsenic | <0.0100 | 0.0250 | 0 | 0.00770 | | | | 0 | 10 | |
| Barium | 0.0572 | 0.0500 | 0 | 0.0556 | | | | 2.87 | 10 | |
| Beryllium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Cadmium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Chromium | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Cobalt | <0.0150 | 0.0250 | 0 | 0.00688 | | | | 0 | 10 | |
| Lead | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Lithium | <0.0250 | 0.0500 | 0 | 0.0178 | | | | 0 | 10 | |
| Magnesium | 17.8 | 1.50 | 0 | 17.0 | | | | 4.26 | 10 | |
| Molybdenum | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Potassium | 1.45 | 1.50 | 0 | 1.39 | | | | 4.33 | 10 | |
| Selenium | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Thallium | <0.00250 | 0.00750 | 0 | 0 | | | | 0 | 10 | |

| Sample ID: 1706089-03A PDS | Batch ID: 80842 | TestNo: SW6020A | Units: mg/L | | | | | | | |
|-----------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: PDS | Run ID: ICP-MS4_170613A | Analysis Date: 6/13/2017 1:10:00 PM | Prep Date: 6/12/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Antimony | 0.189 | 0.00250 | 0.200 | 0 | 94.7 | 80 | 120 | | | |
| Arsenic | 0.205 | 0.00500 | 0.200 | 0.00770 | 98.4 | 80 | 120 | | | |
| Barium | 0.243 | 0.0100 | 0.200 | 0.0556 | 93.8 | 80 | 120 | | | |
| Beryllium | 0.184 | 0.00100 | 0.200 | 0 | 92.1 | 80 | 120 | | | |
| Cadmium | 0.190 | 0.00100 | 0.200 | 0 | 95.0 | 80 | 120 | | | |
| Chromium | 0.197 | 0.00500 | 0.200 | 0 | 98.4 | 80 | 120 | | | |
| Cobalt | 0.200 | 0.00500 | 0.200 | 0.00688 | 96.5 | 80 | 120 | | | |
| Lead | 0.190 | 0.00100 | 0.200 | 0 | 95.0 | 80 | 120 | | | |
| Lithium | 0.196 | 0.0100 | 0.200 | 0.0179 | 88.8 | 80 | 120 | | | |
| Magnesium | 20.2 | 0.300 | 5.00 | 17.0 | 64.1 | 80 | 120 | | | S |
| Molybdenum | 0.185 | 0.00500 | 0.200 | 0 | 92.7 | 80 | 120 | | | |
| Potassium | 5.91 | 0.300 | 5.00 | 1.39 | 90.3 | 80 | 120 | | | |
| Selenium | 0.191 | 0.00500 | 0.200 | 0 | 95.7 | 80 | 120 | | | |
| Thallium | 0.196 | 0.00150 | 0.200 | 0 | 98.1 | 80 | 120 | | | |

| | |
|--|---|
| <p>Qualifiers:</p> <ul style="list-style-type: none"> B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | <ul style="list-style-type: none"> DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified |
|--|---|

CLIENT: B-Environmental
Work Order: 1706089
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170613A

| | | | |
|----------------------------------|--------------------------------|--|-----------------------------|
| Sample ID: 1706089-03A MS | Batch ID: 80842 | TestNo: SW6020A | Units: mg/L |
| SampType: MS | Run ID: ICP-MS4_170613A | Analysis Date: 6/13/2017 1:12:00 PM | Prep Date: 6/12/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.189 | 0.00250 | 0.200 | 0 | 94.4 | 80 | 120 | | | |
| Arsenic | 0.206 | 0.00500 | 0.200 | 0.00770 | 98.9 | 80 | 120 | | | |
| Barium | 0.243 | 0.0100 | 0.200 | 0.0556 | 93.7 | 80 | 120 | | | |
| Beryllium | 0.185 | 0.00100 | 0.200 | 0 | 92.7 | 80 | 120 | | | |
| Cadmium | 0.187 | 0.00100 | 0.200 | 0 | 93.3 | 80 | 120 | | | |
| Chromium | 0.191 | 0.00500 | 0.200 | 0 | 95.3 | 80 | 120 | | | |
| Cobalt | 0.197 | 0.00500 | 0.200 | 0.00688 | 95.2 | 80 | 120 | | | |
| Lead | 0.189 | 0.00100 | 0.200 | 0 | 94.7 | 80 | 120 | | | |
| Lithium | 0.196 | 0.0100 | 0.200 | 0.0179 | 89.1 | 80 | 120 | | | |
| Magnesium | 20.9 | 0.300 | 5.00 | 17.0 | 78.4 | 80 | 120 | | | S |
| Molybdenum | 0.187 | 0.00500 | 0.200 | 0 | 93.6 | 80 | 120 | | | |
| Potassium | 6.12 | 0.300 | 5.00 | 1.39 | 94.6 | 80 | 120 | | | |
| Selenium | 0.194 | 0.00500 | 0.200 | 0 | 97.2 | 80 | 120 | | | |
| Thallium | 0.196 | 0.00150 | 0.200 | 0 | 97.9 | 80 | 120 | | | |

| | | | |
|-----------------------------------|--------------------------------|--|-----------------------------|
| Sample ID: 1706089-03A MSD | Batch ID: 80842 | TestNo: SW6020A | Units: mg/L |
| SampType: MSD | Run ID: ICP-MS4_170613A | Analysis Date: 6/13/2017 1:14:00 PM | Prep Date: 6/12/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.185 | 0.00250 | 0.200 | 0 | 92.5 | 80 | 120 | 1.96 | 15 | |
| Arsenic | 0.201 | 0.00500 | 0.200 | 0.00770 | 96.6 | 80 | 120 | 2.24 | 15 | |
| Barium | 0.239 | 0.0100 | 0.200 | 0.0556 | 91.6 | 80 | 120 | 1.79 | 15 | |
| Beryllium | 0.183 | 0.00100 | 0.200 | 0 | 91.7 | 80 | 120 | 1.10 | 15 | |
| Cadmium | 0.183 | 0.00100 | 0.200 | 0 | 91.7 | 80 | 120 | 1.71 | 15 | |
| Chromium | 0.188 | 0.00500 | 0.200 | 0 | 94.1 | 80 | 120 | 1.28 | 15 | |
| Cobalt | 0.194 | 0.00500 | 0.200 | 0.00688 | 93.7 | 80 | 120 | 1.49 | 15 | |
| Lead | 0.186 | 0.00100 | 0.200 | 0 | 93.1 | 80 | 120 | 1.73 | 15 | |
| Lithium | 0.191 | 0.0100 | 0.200 | 0.0179 | 86.3 | 80 | 120 | 2.84 | 15 | |
| Magnesium | 20.7 | 0.300 | 5.00 | 17.0 | 74.1 | 80 | 120 | 1.05 | 15 | S |
| Molybdenum | 0.185 | 0.00500 | 0.200 | 0 | 92.4 | 80 | 120 | 1.27 | 15 | |
| Potassium | 6.04 | 0.300 | 5.00 | 1.39 | 93.0 | 80 | 120 | 1.33 | 15 | |
| Selenium | 0.189 | 0.00500 | 0.200 | 0 | 94.4 | 80 | 120 | 2.88 | 15 | |
| Thallium | 0.193 | 0.00150 | 0.200 | 0 | 96.7 | 80 | 120 | 1.17 | 15 | |

| | |
|--|---|
| <p>Qualifiers:</p> <ul style="list-style-type: none"> B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | <ul style="list-style-type: none"> DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified |
|--|---|

CLIENT: B-Environmental
Work Order: 1706089
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170614A

The QC data in batch 80842 applies to the following samples: 1706089-01A, 1706089-02A, 1706089-03A, 1706089-04A, 1706089-05A, 1706089-06A, 1706089-07A, 1706089-08A, 1706089-09A, 1706089-10A

| | | | | | | | | | | | |
|-----------|----------------|-----------|-----------------|----------------|-----------------------|------------|-----------|-----------|------|----------|------|
| Sample ID | 1706089-03A SD | Batch ID: | 80842 | TestNo: | SW6020A | Units: | mg/L | | | | |
| SampType: | SD | Run ID: | ICP-MS4_170614A | Analysis Date: | 6/14/2017 11:03:00 AM | Prep Date: | 6/12/2017 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | | 0.270 | 0.150 | 0 | 0.243 | | | | 10.4 | 10 | |

| | | | | | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|-----------------------|------------|-----------|-----------|------|----------|------|
| Sample ID | 1706089-03A PDS | Batch ID: | 80842 | TestNo: | SW6020A | Units: | mg/L | | | | |
| SampType: | PDS | Run ID: | ICP-MS4_170614A | Analysis Date: | 6/14/2017 11:07:00 AM | Prep Date: | 6/12/2017 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | | 0.416 | 0.0300 | 0.200 | 0.243 | 86.5 | 80 | 120 | | | |

| | | | | | | | | | | | |
|-----------|----------------|-----------|-----------------|----------------|-----------------------|------------|-----------|-----------|------|----------|------|
| Sample ID | 1706089-03A MS | Batch ID: | 80842 | TestNo: | SW6020A | Units: | mg/L | | | | |
| SampType: | MS | Run ID: | ICP-MS4_170614A | Analysis Date: | 6/14/2017 11:09:00 AM | Prep Date: | 6/12/2017 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | | 0.414 | 0.0300 | 0.200 | 0.243 | 85.1 | 80 | 120 | | | |

| | | | | | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|-----------------------|------------|-----------|-----------|------|----------|------|
| Sample ID | 1706089-03A MSD | Batch ID: | 80842 | TestNo: | SW6020A | Units: | mg/L | | | | |
| SampType: | MSD | Run ID: | ICP-MS4_170614A | Analysis Date: | 6/14/2017 11:11:00 AM | Prep Date: | 6/12/2017 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | | 0.442 | 0.0300 | 0.200 | 0.243 | 99.2 | 80 | 120 | 6.64 | 15 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706089
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_170614A

The QC data in batch 80902 applies to the following samples: 1706089-01C, 1706089-02C, 1706089-03C, 1706089-04C, 1706089-05C, 1706089-06C, 1706089-07C, 1706089-08C, 1706089-09C, 1706089-10C

| | | | |
|---------------------------|---------------------------------|---|------------------------------|
| Sample ID MB-80902 | Batch ID: 80902 | TestNo: M2320 B | Units: mg/L @ pH 4.22 |
| SampType: MBLK | Run ID: TITRATOR_170614A | Analysis Date: 6/14/2017 10:31:00 AM | Prep Date: 6/14/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Total (As CaCO3) | <20.0 | 20.0 | | | | | | | | |

| | | | |
|----------------------------|---------------------------------|---|-----------------------------|
| Sample ID LCS-80902 | Batch ID: 80902 | TestNo: M2320 B | Units: mg/L @ pH 4.2 |
| SampType: LCS | Run ID: TITRATOR_170614A | Analysis Date: 6/14/2017 10:35:00 AM | Prep Date: 6/14/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Total (As CaCO3) | 51.0 | 20.0 | 50.00 | 0 | 102 | 74 | 129 | | | |

| | | | |
|----------------------------------|---------------------------------|---|------------------------------|
| Sample ID 1706089-03C-DUP | Batch ID: 80902 | TestNo: M2320 B | Units: mg/L @ pH 4.52 |
| SampType: DUP | Run ID: TITRATOR_170614A | Analysis Date: 6/14/2017 11:32:00 AM | Prep Date: 6/14/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | 251 | 20.0 | 0 | 249.3 | | | | 0.680 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | 251 | 20.0 | 0 | 249.3 | | | | 0.680 | 20 | |

| | | | |
|----------------------------------|---------------------------------|--|------------------------------|
| Sample ID 1706105-03C-DUP | Batch ID: 80902 | TestNo: M2320 B | Units: mg/L @ pH 4.52 |
| SampType: DUP | Run ID: TITRATOR_170614A | Analysis Date: 6/14/2017 1:25:00 PM | Prep Date: 6/14/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | 251 | 20.0 | 0 | 253.0 | | | | 0.953 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | 251 | 20.0 | 0 | 253.0 | | | | 0.953 | 20 | |

| | |
|--|---|
| <p>Qualifiers:</p> <ul style="list-style-type: none"> B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | <ul style="list-style-type: none"> DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified |
|--|---|

2609 North River Road, Port Allen, Louisiana 70767
(800) 401-4277 -- FAX (225) 381-2996



ARS International, LLC

Laboratory Analysis Report

ARS1-17-01680

Prepared for:

B-Environmental

**Kevin Baros
1606 East Brazos Street
Suite D
Victoria, TX 77901**

**dbenviro@suddenlinkmail.com; cbenviro@suddenlinkmail.com
swbenviro@suddenlinkmail.com**

**Phone: 361-572-8224
Fax: 361-572-4115**

Project Manager Review

Management Review

Notes: ARS International, LLC assumes no liability for the use or the interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

Contact Person: Questions regarding this analytical report should be addressed to:

**Project Manager
ProjectManagers@amrad.com**

**Phone: 225.381.2991
Fax: 225.381.2996**



LELAP Cert# 01949



2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01680

Request or PO Number: N/A

Client Sample ID: S171571808 (BATCH 56182)

ARS Sample ID: ARS1-17-01680-001

Sample Collection Date: 06/06/17

Date Received: 06/12/17

Sample Matrix: Aqueous

Report Date: 07/11/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.138 | 0.110 | 0.149 | 0.056 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/03/17 8:20 | CTRAMEL | 98% |
| Ra-228 | 0.463 | 0.659 | 1.111 | 0.514 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/26/17 12:49 | CTRAMEL | 90% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-01680
 Client Sample ID: S17157180A (BATCH 56182)
 Sample Collection Date: 06/06/17
 Sample Matrix: Aqueous
 Percent Solids: N/A

Request or PO Number: N/A
 ARS Sample ID: ARS1-17-01680-002
 Date Received: 06/12/17
 Report Date: 07/11/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.406 | 0.177 | 0.152 | 0.056 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 07/03/17 8:20 | CTRAMEL | 93% |
| Ra-228 | 0.754 | 0.883 | 1.460 | 0.675 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/26/17 12:49 | CTRAMEL | 68% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-01680
 Client Sample ID: S17157180B (BATCH 56182)
 Sample Collection Date: 06/06/17
 Sample Matrix: Aqueous
 Percent Solids: N/A

Request or PO Number: N/A
 ARS Sample ID: ARS1-17-01680-003
 Date Received: 06/12/17
 Report Date: 07/11/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.112 | 0.143 | 0.236 | 0.097 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/03/17 8:20 | CTRAMEL | 80% |
| Ra-228 | 0.062 | 1.003 | 1.796 | 0.838 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/26/17 12:49 | CTRAMEL | 60% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-01680
 Client Sample ID: S17157180C (BATCH 56182)
 Sample Collection Date: 06/06/17
 Sample Matrix: Aqueous
 Percent Solids: N/A

Request or PO Number: N/A
 ARS Sample ID: ARS1-17-01680-004
 Date Received: 06/12/17
 Report Date: 07/11/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.132 | 0.128 | 0.195 | 0.078 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/03/17 8:20 | CTRAMEL | 95% |
| Ra-228 | -0.154 | 0.709 | 1.303 | 0.606 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/26/17 12:49 | CTRAMEL | 86% |

Project Manager Review

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LELAP Certificate# 01949



2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01680

Request or PO Number: N/A

Client Sample ID: S17157180D (BATCH 56182)

ARS Sample ID: ARS1-17-01680-005

Sample Collection Date: 06/06/17

Date Received: 06/12/17

Sample Matrix: Aqueous

Report Date: 07/11/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.117 | 0.124 | 0.193 | 0.076 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/03/17 8:20 | CTRAMEL | 94% |
| Ra-228 | 0.574 | 0.775 | 1.299 | 0.604 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/26/17 12:49 | CTRAMEL | 85% |

Project Manager Review

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2609 North River Road, Port Allen, Louisiana 70767
 1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01677
 Client Sample ID: S17157180E (BATCH 56182)
 Sample Collection Date: 06/06/17
 Sample Matrix: Aqueous
 Percent Solids: N/A

Request or PO Number: N/A
 ARS Sample ID: ARS1-17-01677-001
 Date Received: 06/12/17
 Report Date: 07/11/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.281 | 0.151 | 0.178 | 0.072 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 06/30/17 8:49 | CTRAMEL | 103% |
| Ra-228 | 0.631 | 0.750 | 1.244 | 0.582 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/23/17 12:57 | CTRAMEL | 104% |

Project Manager Review

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LELAP Certificate# 01949



2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01677

Request or PO Number: N/A

Client Sample ID: S17157180F (BATCH 56182)

ARS Sample ID: ARS1-17-01677-002

Sample Collection Date: 06/06/17

Date Received: 06/12/17

Sample Matrix: Aqueous

Report Date: 07/11/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.624 | 0.230 | 0.203 | 0.082 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 06/30/17 8:49 | CTRAMEL | 102% |
| Ra-228 | 0.561 | 0.717 | 1.197 | 0.556 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/23/17 12:57 | CTRAMEL | 95% |

Project Manager Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

LELAP Certificate# 01949



2609 North River Road, Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01677

Request or PO Number: N/A

Client Sample ID: S17157180G (BATCH 56182)

ARS Sample ID: ARS1-17-01677-003

Sample Collection Date: 06/06/17

Date Received: 06/12/17

Sample Matrix: Aqueous

Report Date: 07/11/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.523 | 0.204 | 0.183 | 0.073 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 06/30/17 8:49 | CTRAMEL | 106% |
| Ra-228 | 0.410 | 0.706 | 1.204 | 0.561 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/23/17 12:57 | CTRAMEL | 109% |

Project Manager Review

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2609 North River Road, Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01677
Client Sample ID: S17157180H (BATCH 56182)
Sample Collection Date: 06/06/17
Sample Matrix: Aqueous
Percent Solids: N/A

Request or PO Number: N/A
ARS Sample ID: ARS1-17-01677-004
Date Received: 06/12/17
Report Date: 07/11/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.281 | 0.150 | 0.161 | 0.061 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 06/30/17 8:49 | CTRAMEL | 109% |
| Ra-228 | 0.390 | 0.654 | 1.114 | 0.516 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/23/17 12:57 | CTRAMEL | 101% |

Project Manager Review

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2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01677
 Client Sample ID: S17157180I (BATCH 56182)
 Sample Collection Date: 06/06/17
 Sample Matrix: Aqueous
 Percent Solids: N/A

Request or PO Number: N/A
 ARS Sample ID: ARS1-17-01677-005
 Date Received: 06/12/17
 Report Date: 07/11/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.122 | 0.103 | 0.143 | 0.054 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/30/17 8:50 | CTRAMEL | 108% |
| Ra-228 | 0.747 | 0.872 | 1.445 | 0.681 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/23/17 12:57 | CTRAMEL | 98% |

Project Manager Review

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LELAP Certificate# 01949



2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

INTERNATIONAL
QC Results Report

Sample Delivery Group: ARS1-17-01680

Laboratory Control Sample Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | LCS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|----------------------|
| ARS1-B17-01240 | LCS | RA-226 | 27.226 | 4.387 | 0.100 | 27.564 | N/A | pCi/L | ARS-010/EPA 903 | 7/3/17 10:19 | CT | 99 | 75%-125% |
| ARS1-B17-01240 | LCS | RA-228 | 40.447 | 6.704 | 1.054 | 39.784 | N/A | pCi/L | ARS-010/EPA 904 | 6/26/17 14:48 | CT | 102 | 75%-125% |

Blank Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|
| ARS1-B17-01240 | MBL | RA-226 | 0.064 | 0.068 | 0.105 | NA | U | pCi/L | ARS-010/EPA 903 | 7/3/17 10:19 | CT |
| ARS1-B17-01240 | MBL | RA-228 | 0.022 | 0.495 | 0.888 | NA | U | pCi/L | ARS-010/EPA 904 | 6/26/17 14:48 | CT |

RER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | RER | RER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01240 | LCSD | RA-226 | 27.226 | 4.387 | 27.378 | 4.420 | N/A | pCi/L | ARS-010/EPA 903 | 7/3/17 10:19 | CT | 0.02 | < 1 |
| ARS1-B17-01240 | LCSD | RA-228 | 40.447 | 6.704 | 41.050 | 6.822 | N/A | pCi/L | ARS-010/EPA 904 | 6/26/17 14:48 | CT | 0.04 | < 1 |

DER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | DER | DER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01240 | LCSD | RA-226 | 27.226 | 4.387 | 27.378 | 4.420 | N/A | pCi/L | ARS-010/EPA 903 | 7/3/17 10:19 | CT | 0.02 | < 3 |
| ARS1-B17-01240 | LCSD | RA-228 | 40.447 | 6.704 | 41.050 | 6.822 | N/A | pCi/L | ARS-010/EPA 904 | 6/26/17 14:48 | CT | 0.06 | < 3 |

Matrix Spike

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | MS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|---------------------|
| ARS1-B17-01240 | MS | Ra-226 | 51.749 | 8.355 | 0.140 | 55.957 | N/A | pCi/L | ARS-010/EPA 903 | 7/3/17 10:19 | CT | 92 | 60%-140% |
| ARS1-B17-01240 | MS | Ra-228 | 55.183 | 9.237 | 1.845 | 51.929 | N/A | pCi/L | ARS-010/EPA 904 | 6/26/17 14:48 | CT | 106 | 60%-140% |
| ARS1-B17-01240 | MSD | Ra-226 | 44.958 | 7.267 | 0.143 | 56.172 | N/A | pCi/L | ARS-010/EPA 903 | 7/3/17 10:19 | CT | 80 | 60%-140% |
| ARS1-B17-01240 | MSD | Ra-228 | 44.311 | 7.407 | 1.468 | 51.570 | N/A | pCi/L | ARS-010/EPA 904 | 6/26/17 14:48 | CT | 85 | 60%-140% |

Project Manager Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of ARS International.

LELAP Certificate# 01949

NELAP Certificate # E87558



2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

QC Results Report

Sample Delivery Group: ARS1-17-01677

Laboratory Control Sample Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | LCS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|----------------------|
| ARS1-B17-01229 | LCS | RA-226 | 26.761 | 4.314 | 0.095 | 27.513 | N/A | pCi/L | ARS-010/EPA 903 | 6/30/17 8:49 | CT | 97 | 75%-125% |
| ARS1-B17-01229 | LCS | RA-228 | 37.902 | 6.314 | 1.125 | 39.784 | N/A | pCi/L | ARS-010/EPA 904 | 6/30/17 8:49 | CT | 95 | 75%-125% |

Blank Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|
| ARS1-B17-01229 | MBL | RA-226 | 0.015 | 0.049 | 0.094 | NA | U | pCi/L | ARS-010/EPA 903 | 6/30/17 8:49 | CT |
| ARS1-B17-01229 | MBL | RA-228 | -0.288 | 0.323 | 0.621 | NA | U | pCi/L | ARS-010/EPA 904 | 6/30/17 8:49 | CT |

RER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | RER | RER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01229 | LCS | RA-226 | 26.761 | 4.314 | 30.342 | 4.894 | N/A | pCi/L | ARS-010/EPA 903 | 6/30/17 8:49 | CT | 0.39 | < 1 |
| ARS1-B17-01229 | LCS | RA-228 | 37.902 | 6.314 | 39.765 | 6.630 | N/A | pCi/L | ARS-010/EPA 904 | 6/30/17 8:49 | CT | 0.14 | < 1 |

DER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | DER | DER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01229 | LCS | RA-226 | 26.761 | 4.314 | 30.342 | 4.894 | N/A | pCi/L | ARS-010/EPA 903 | 6/30/17 8:49 | CT | 0.55 | < 3 |
| ARS1-B17-01229 | LCS | RA-228 | 37.902 | 6.314 | 39.765 | 6.630 | N/A | pCi/L | ARS-010/EPA 904 | 6/30/17 8:49 | CT | 0.20 | < 3 |

Project Manager Review

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LELAP Certificate# 01949

NELAP Certificate # E87558



2609 North River Road • Port Allen, Louisiana 70767

1 (800) 401-4277 • Fax (225) 381-2996

Notes (Case Narrative):

Comments:

- 1.0) All MDA/MDC values are calculated on a sample specific basis.
- 2.0) Soil and Sludge analysis are reported on a wet basis or an as received basis unless otherwise indicated.
- 3.0) Data in this report are within the limits of uncertainty specified in the reference method unless otherwise specified.
- 4.0) Modified analysis procedures are procedures that are modified to meet the certain specifications. An example may be the use of a water method to analyze a solid matrix due to the lack of an officially recognized procedure for the analysis of the solid matrix. Modified analyses are indicated by the subsequent addition of "m" to the procedure number (i.e. 900.0M).
- 5.0) Total activity is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring radioactive decay chains and other prominent radioactive nuclides. Total activity may be lower than the actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not representative of nuclides that emit solely alpha or beta particles.
- 6.0) Ra-228 is determined via secular equilibrium with its daughter, Actinium 228 (Gamma Spectroscopy only).
- 7.0) U-238 is determined via secular equilibrium with its daughter, Thorium 234 (Gamma Spectroscopy only).
- 8.0) All gamma spectroscopy was performed utilizing high purity germanium detectors (HPGe).
- 9.0) ARS makes every attempt to match sample density to calibrated density; however, in some cases, it is not practical or possible to do so and data results may be affected (Gamma Spectroscopy only).
- 10.0) Gamma spectroscopy results are calculated values based on the ORTEC® GammaVision ENV32 Analysis Engine.
- 11.0) ACLASS DOD and ISO 17025 certification applies only to the following analytes and methods: Gross Alpha and Gross Beta (EPA 900, SM7110B&C, SW846 9310); Radium 226 (EPA 903, EPA 903.1, SM 7500 Ra-B, SW846 9315); Radium 228 (EPA 904, SM 7500 Ra-B SW846 9320); Iodine-131(EPA 901.1); Uranium by ICPMS (EPA 200.8); Strontium 89/90 (EPA 905, Eichrom SRW01, HASL 300 Sr-03-RC); Tritium (EPA 906, EPA 906M); Gamma Emitters (EPA 901.1, SM7120B, HASL 300 Ga-01-R); Americium-241, Curium 242/244, Plutonium 239/240 and 241, Thorium 228/230/232, Uranium 234/233 and 238 (Eichrom ACW03 VBS); Lead 210 (HASL 300 Pb-01-RC, Eichrom OTW01); Polonium 210 (HASL 300 Po-01-RC, HASL 300 Po-02-RC); Technetium-99 (Eichrom TCW02, Eichrom TCS01M).

Method References:

- 1.0) EPA 600/4-80-032; Prescribed Procedures for the Measurements of Radioactivity in Drinking Water, August 1980.
- 2.0) Standard Methods for the Examination of Water and Wastewater (On-Line Edition)
- 3.0) EPA SW-846; Test Methods for Evaluating Solid Waste, (On-Line edition)
- 4.0) EPA 600/479-020; Methods for Chemical Analysis of Water and Waste, March 1983.
- 5.0) HASL 300; The Procedures Manual of the Environmental Measurements Laboratory, Volume I, 28th Edition February, 1997.

Definitions:

| | |
|----------|---|
| CRDL | Contract Required Detection Limit |
| CSU | Combined Standard Uncertainty |
| DLC | Decision Level Concentration (ANSI N42.23) or critical level |
| DO | Duplicate Original |
| DUP | Method Duplicate |
| LCS/LCSD | Laboratory Control Sample/Laboratory Control Sample Duplicate |
| MDA | Minimum Detectable Activity |
| MDC | (Minimum Detectable Concentration) minimum concentration of the analyte that ARS can detect utilizing the specific analysis |
| MBL | Method Blank |
| MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| N/A | Not Applicable |
| NP | Not Provided |
| NR | Not Referenced |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |

Data Qualifiers:

| | |
|----|--|
| B | The analyte is found in both the associated method blank and the sample. This flag indicates probable blank contamination. |
| D | Sample analysis accomplished through dilution. |
| J | The reported result is an estimated value above the limit of detection but outside of quantitation range (e.g., matrix interference was observed). |
| Q | One or more quality control criteria failed (e.g., LCS recovery, surrogate spike recovery, or CCV recovery). |
| U | Activity is below the MDC, MDA, MDL, or LOD |
| N | The analyte is a tentatively identified compound using mass spectrometry or any non-customer requested compounds that are tentatively identified. |
| * | LCS/LCSD or MS/MSD fails RPD criteria. |
| S | Spike |
| SC | Subcontracted out to another qualified laboratory |
| H | Holding time exceeded |

ARS-059-010
Revision: 9.1
Revision Date: 03-14-2017

LELAP Cert# 01949

NELAP Cert# E87558

B Environmental Laboratory, LLC
 1606 E Brazos Suite D Victoria, Texas 77901 ph. (361) 572-8224

Chain Of Custody Rec

Batch # 56182

TEMP UN-C: 7.6 Page ___ of ___

Customer / Report Information

Billing Information

Check box if Billing is the same as Report Information

THERM ID# 5

TEMP Corr: 7.9

Name: Coletto Creek Power

Address:

Phone: 361-788-5145

FAX:

Attention: Rick Coleman

Attention:

PO #

EMAIL: richard.coleman@dvneuv.com

Address: P.O. Box 8; Fannin, TX 77960

Project: CCR Sampling

Requester: B Analysis

Completed By laboratory

Sample Information

| Collected By: | Client / Field Sample ID | Collected | | Matrix | Container | Preservative | Metals* <u>D</u> | Cl, F*, SO4 <u>A</u> | pH <u>C</u> | TDS <u>F</u> | Ra226 & Ra228 <u>E</u> | Alk: Tot, Carb, BiCar | Diss Li & Mo | Custody Seals Present |
|---------------|--------------------------|------------------------------------|-------------------------------|--|-----------|--------------|------------------|----------------------|-------------|--------------|------------------------|-----------------------|--------------|---|
| | | Date | Time | | | | | | | | | | | |
| | | <input type="checkbox"/> Composite | <input type="checkbox"/> Grab | DW - Drinking H2O S - Solid WW - Waste H2O SL - Sludge L - Liquid W - Water | | | | | | | | | | Yes <input type="checkbox"/> No <input type="checkbox"/> |

| | | | | | | | | | | | | | | |
|-------|--------|---|----|---|------------------|---|--|---|---|---|---|---|---|------------|
| Dup 1 | 6-6-15 | G | WW | P | 6 500mL 250mL | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | S171571808 |
|-------|--------|---|----|---|------------------|---|--|---|---|---|---|---|---|------------|

| | | | | | | | | | | | | | | |
|-----|------|---|----|---|------------------|---|--|---|---|---|---|---|---|------------|
| B1K | 1575 | G | WW | P | 6 500mL 250mL | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | S17157180A |
|-----|------|---|----|---|------------------|---|--|---|---|---|---|---|---|------------|

| | | | | | | | | | | | | | | |
|------|------|---|----|---|------------------|---|--|---|---|---|---|---|---|------------|
| MW-4 | 1128 | G | WW | P | 6 500mL 250mL | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | S17157180B |
|------|------|---|----|---|------------------|---|--|---|---|---|---|---|---|------------|

| | | | | | | | | | | | | | | |
|---------|------|---|----|---|------------------|---|--|---|---|---|---|---|---|------------|
| MW-4/ms | 1128 | G | WW | P | 6 500mL 250mL | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | S17157180C |
|---------|------|---|----|---|------------------|---|--|---|---|---|---|---|---|------------|

| | | | | | | | | | | | | | | |
|---------|------|---|----|---|------------------|---|--|---|---|---|---|---|---|------------|
| MW-4/ms | 1128 | G | WW | P | 6 500mL 250mL | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | S17157180D |
|---------|------|---|----|---|------------------|---|--|---|---|---|---|---|---|------------|

| | | | | | | | | | | | | | | |
|------|-----|---|----|---|------------------|---|--|---|---|---|---|---|---|------------|
| MW-8 | 853 | G | WW | P | 6 500mL 250mL | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | S17157180E |
|------|-----|---|----|---|------------------|---|--|---|---|---|---|---|---|------------|

| | | | | | | | | | | | | | | |
|------|------|---|----|---|------------------|---|--|---|---|---|---|---|---|------------|
| BV-1 | 1434 | G | WW | P | 6 500mL 250mL | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | S17157180F |
|------|------|---|----|---|------------------|---|--|---|---|---|---|---|---|------------|

Required Turnaround: Routine (6-10 Business days) Expedite / Rush: 1 Business Day 2 Business Days 3 Business days 5 Business days Other

Surcharge will apply to RUSH/TAT Authorized By: _____

| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
|--------------------|--------|-------|--------------------|--------|-------|
| <u>[Signature]</u> | 6-6-17 | 1520 | <u>[Signature]</u> | 6/6/17 | 1520 |
| <u>[Signature]</u> | 6/6/17 | 1630 | <u>[Signature]</u> | 6-6-17 | 16:30 |

B Environmental Laboratory, LLC
 1606 E Brazos Suite D Victoria, Texas 77901 ph. (361) 572-8224

Chain Of Custody Rec Batch # 56182

TEMP UN-C: 7.6 Page ___ of ___

Customer / Report Information Billing Information Check box if Billing is the same as Report Information THERM ID# 3 TEMP Corr: 7.4

Name: Coletto Creek Power Address: PO # _____ Phone: 361-788-5145 FAX: _____

Attention: Rick Coleman Attention: _____ EMAIL: richard.coleman@dvneuv.com Completed By Laboratory

Address: P.O. Box 8; Fannin, TX 77960 Project: CCR Sampling Comments: Requested Analysis

Sample Information Matrix Container Preservative Custody Seals Present
 Yes No
 Intact Yes No
 LAB Sample Number

| Client / Field Sample ID | Collected | | Matrix | Container | Preservative | Metals* | Cl, F*, SO4 | pH | TDS | Ra226 & Ra228 | Alk: Tot, Carb, BiCarb | Diss Li & Mo | Custody Seals Present |
|--------------------------|-----------|------|--------|-----------------|--|---------|-------------|----|-----|---------------|------------------------|--------------|-----------------------|
| | Date | Time | | | | | | | | | | | |
| BV-10 | 6-6-15 | 1404 | G WW | 1L P 500mL ICE | <input type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | X | S17157180E |
| BV-15 | 1/8/40 | | G WW | 1L P 6500mL ICE | <input type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | X | S17157180F |
| BV-19 | 1/3/32 | | G WW | 1L P 500mL ICE | <input type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | X | S17157180G |
| BV-21 | 1/5/07 | | G WW | 1L P 6500mL ICE | <input type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | X | S17157180H |
| BV-22 | 9/3/7 | | G WW | 1L P 6500mL ICE | <input type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | X | S17157180I |

Required Turnaround: Routine (6-10 Business days) Expedite / Rush: 1 Business Day 2 Business Days 3 Business days 5 Business days Other _____

Surcharge will apply to RUSH TAT Authorized By: _____ Container Type: P=Plastic, G=Glass, V=Voa, O=Other Carrier ID: _____

| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
|--------------------|--------|-------|--------------------|--------|-------|
| <i>[Signature]</i> | 6-6-17 | 15:20 | <i>[Signature]</i> | 6/6/17 | 15:20 |
| <i>[Signature]</i> | 6/6/17 | 16:30 | <i>[Signature]</i> | 6/6/17 | 16:30 |

BatchNo: 56324

SAMPLE REPORT



T104704328-17-14

Business

Coletto Creek Power - R Coleman
PO Box 8
Fannin TX 77960
Att: Rick Coleman



Laboratory

B Environmental, LLC.
1606 E Brazos, Suite D
Victoria TX 77901
ph. 361-572-8224

Reference Information

Project: CCR Sampling
Printed: Wednesday,
July 12, 2017

Re: Coletto Creek Power - R Coleman

Dear: Rick Coleman

Attached are the results for sample(s) received on 6/8/2017

The analytical results relate only to the samples tested.
All supporting quality data meets the requirements of NELAC unless noted in the case narrative section of the report.

This report contains 26 pages (including the cover page)

If you have any questions concerning this report, please do not hesitate to call (361) 572-8224 or Fax us at (361) 572-4115

Respectfully Submitted,

Kevin Baros

Laboratory Director



B Environmental, LLC. 1606 E Brazos, Suite D Victoria TX 77901

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B Environmental, LLC.

BatchNo:

56324

1606 E Brazos, Suite D

Victoria TX 77901

Batch No: 56324

Sample Receipt Checklist

Date Received: 6/8/2017

Project: CCR Sampling

Received By: Woodruff

Login completed by: Woodruff 6/8/2017

Signature LoginDate:

Carrier Name: Walk In

- Shipping container/cooler in good condition? YES NO Not Present
- Custody seals intact on shipping container/cooler? YES NO Not Present
- Custody seals intact on sample bottles? YES NO Not Present
- Chain of Custody present? YES NO
- Chain of Custody signed when relinquished and received YES NO
- Chain of Custody agrees with sample labels? YES NO
- Samples in proper container/bottles? YES NO
- Sample containers intact? YES NO
- Sufficient sample volume for indicated tests? YES NO
- All samples received within holding times? YES NO
- Container/Temp Blank - temperature in compliance? YES NO >0 <6 °C On Ice
- Water - VOA vials have zero headspace? Bubble < 6mm? YES NO No VOA Vials submitted
- Water - pH acceptable upon receipt? YES NO Not Applicable

*TEMP 2.3/2.1 pH Adjusted? No Checked By L. Vahrenkamp

Any No and/or N/A (not applicable) response must be detailed in the comments section below.

Client contacted PersonContacted

Contacted by: Date Contacted:

Regarding

Comments
Therm #3. HNO3 Lot # 2-42-12. pH Paper Lot # 2-25-6.

Corrective Action



B Environmental, LLC.

1606 E Brazos, Suite D

Victoria TX 77901

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Sample Report Information



| | | | | | |
|------------|-------------------|------------|-------------|----------|---------------|
| Sample ID: | S171591626 | Client ID: | MW-5 | Sampler: | Client |
|------------|-------------------|------------|-------------|----------|---------------|

Client: **Coletto Creek Power - R Coleman**

Study: **Water**

Batch No: **56324**

Sampled: **6/8/2017**

8:10 AM

Project: **CCR Sampling**

Location: **MW #5**

Type: **Grab**

Notes:

Matrix: **Water**

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|-------------------------------------|-------|-------------------------------|
| .- Chloride, IC | 139 | mg/L | EPA 300 | K Baros | 6/12/2017 17:16 | 1 | 1 | | <input type="checkbox"/> | | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 288 | mg/L | SM 2320 B | | 6/18/2017 15:48 | 10 | 10 | | <input checked="" type="checkbox"/> | | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/18/2017 15:48 | 10 | 10 | | <input checked="" type="checkbox"/> | | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 288 | mg/L | SM 2320 B | | 6/18/2017 15:48 | 10 | 10 | | <input checked="" type="checkbox"/> | | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.55 | mg/L | EPA 300 | K Baros | 6/12/2017 17:16 | 0.25 | 0.25 | | <input type="checkbox"/> | | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 6.8 | SU | SM 4500-H+B | C Watts | 6/8/2017 16:40 | | | | <input type="checkbox"/> | | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 862 | mg/L | SM2540C | C Watts | 6/9/2017 15:00 | 25 | 25 | | <input type="checkbox"/> | | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 6/13/2017 13:08 | | | | <input checked="" type="checkbox"/> | | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 182 | mg/L | EPA 300 | K Baros | 6/12/2017 17:16 | 1 | 1 | | <input type="checkbox"/> | | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 6/30/2017 8:49 | | | | <input checked="" type="checkbox"/> | | ARS International |



B Environmental, LLC.
 1606 E Brazos, Suite D
 Victoria TX 77901

BatchNo: 56324

Sample Report Information



| | | | | | |
|-------------------|-------------------|-------------------|--------------|-----------------|---------------|
| Sample ID: | S17159162A | Client ID: | MW-10 | Sampler: | Client |
|-------------------|-------------------|-------------------|--------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman
Study: Water
Project: CCR Sampling
Location: MW #10
Notes:

Batch No: 56324
Sampled: 6/8/2017 8:35 AM
Type: Grab
Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| .- Chloride, IC | 77 | mg/L | EPA 300 | K Baros | 6/12/2017 16:00 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 236 | mg/L | SM 2320 B | | 6/18/2017 16:07 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/18/2017 16:07 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 236 | mg/L | SM 2320 B | | 6/18/2017 16:07 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.84 | mg/L | EPA 300 | K Baros | 6/12/2017 16:00 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.2 | SU | SM 4500-H+B | C Watts | 6/8/2017 16:40 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 604 | mg/L | SM2540C | C Watts | 6/9/2017 15:00 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 6/13/2017 13:47 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 92 | mg/L | EPA 300 | K Baros | 6/12/2017 16:00 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 6/30/2017 8:49 | | | | | | <input checked="" type="checkbox"/> ARS International |



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Victoria TX 77901

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B Environmental, LLC.
1606 E Brazos, Suite D

BatchNo: 56324

Victoria TX 77901

Sample Report Information



| | | | | | |
|------------|-------------------|------------|---------------|----------|---------------|
| Sample ID: | S17159162B | Client ID: | MW-10A | Sampler: | Client |
|------------|-------------------|------------|---------------|----------|---------------|

Client: **Coletto Creek Power - R Coleman**
Study: **Water**

Batch No: **56324**
Sampled: **6/8/2017 9:00 AM**

Project: **CCR Sampling**

Location: **MW 10A**

Type: **Grab**

Notes:

Matrix: **Water**

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 366 | mg/L | EPA 300 | K Baros | 6/12/2017 16:38 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 339 | mg/L | SM 2320 B | | 6/18/2017 16:21 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/18/2017 16:21 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 339 | mg/L | SM 2320 B | | 6/18/2017 16:21 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.45 | mg/L | EPA 300 | K Baros | 6/12/2017 16:38 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 6.78 | SU | SM 4500-H+B | C Watts | 6/8/2017 16:40 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 1258 | mg/L | SM2540C | C Watts | 6/13/2017 15:30 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 6/13/2017 13:13 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 84 | mg/L | EPA 300 | K Baros | 6/12/2017 16:38 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 6/30/2017 8:49 | | | | | | <input checked="" type="checkbox"/> ARS International |



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QA Summary Report

| Parameter | ID | Result | Ref Value | Amt Added | LOQ | Qualifier | Control | Flag | Comments |
|--|------------|-----------|-----------|-----------|------|----------------|----------------|------|---|
| .Method Blank | | | | | | | | | |
| - Chloride, IC 6/12/2017 20:27 | Q171731033 | <1mg/L | 0 | | 1 | | 1 | | Blank Acceptable. |
| Fluoride, IC 6/12/2017 20:27 | Q171731033 | <0.25mg/L | 0 | | 0.25 | | 0.25 | | Blank Acceptable. |
| Solids, Total Dissolved 6/9/2017 15:00 | Q171631612 | <25mg/L | 0 | | 10 | | 25 | | Blank Acceptable. |
| Solids, Total Dissolved 6/13/2017 15:30 | Q171650908 | <25mg/L | 0 | | 10 | | 25 | | Blank Acceptable. |
| Sulfate, IC 6/12/2017 20:27 | Q171731033 | <1mg/L | 0 | | 1 | | 1 | | Blank Acceptable. |
| Duplicate | | | | | | | | | |
| pH (Standard Units) 6/8/2017 16:40 | Q171591650 | 6.83SU | 6.8 | | 2 | 0.4% | 20 | | Duplicate RPD Acceptable. |
| Solids, Total Dissolved 6/13/2017 15:30 | Q171650910 | 572mg/L | 574 | | 10 | 0.3% | 20 | | Duplicate RPD Acceptable. |
| Solids, Total Dissolved 6/9/2017 15:00 | Q171631613 | 726mg/L | 728 | | 10 | 0.3% | 20 | | Duplicate RPD Acceptable. |
| Laboratory Control Standard | | | | | | | | | |
| - Chloride, IC 6/12/2017 20:27 | Q171731034 | 25.59mg/L | 25 | | 1 | 102.4% 2.3% | 80 - 120 20 | | Standard Recovery Acceptable. Standard RPD Acceptable. |
| Fluoride, IC 6/12/2017 20:27 | Q171731034 | 2.02mg/L | 2 | | 0.25 | 101.0% 1.0% | 80 - 120 20 | | Standard Recovery Acceptable. Standard RPD Acceptable. |
| pH (Standard Units) 6/8/2017 16:40 | Q171591649 | 6.99SU | 7 | | 2 | 99.9% 0.1% | 80 - 120 20 | | Standard Recovery Acceptable. Standard RPD Acceptable. |
| Sulfate, IC 6/12/2017 20:27 | Q171731034 | 25.8mg/L | 25 | | 1 | 103.2% 3.1% | 80 - 120 20 | | Standard Recovery Acceptable. Standard RPD Acceptable. |
| Matrix Spike | | | | | | | | | |
| - Chloride, IC 6/12/2017 20:27 | Q17173103C | 107mg/L | 106 | 25 | 1 | 104.0% 0.9% | 80 - 120 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Fluoride, IC 6/12/2017 20:27 | Q17173103C | 2.42mg/L | 2.6 | 2 | 0.25 | 91.0% 7.2% | 80 - 120 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Sulfate, IC 6/12/2017 20:27 | Q17173103C | 92mg/L | 92 | 25 | 1 | 100.0% 0.0% | 70 - 130 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Matrix Spike Dup | | | | | | | | | |
| - Chloride, IC 6/12/2017 21:05 | Q17173103D | 107mg/L | 106 | 25 | 1 | 104.0% 0.9% | 80 - 120 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Fluoride, IC 6/12/2017 21:05 | Q17173103D | 2.43mg/L | 2.6 | 2 | 0.25 | 91.5% 6.8% | 80 - 120 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Sulfate, IC 6/12/2017 21:05 | Q17173103D | 92mg/L | 92 | 25 | 1 | 100.0% 0.0% | 70 - 130 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |



Flag and Qualifier Legend



Negative - Result Detected

MDL = Method Detection Limit

DF = Dilution Factor



Caution - Problem Detected

LOQ = Limit of Quantitation

j = Analyte detected between MDL and LOQ



Warning - Null Value

S = surrogate standard out of limit

H = sample out of hold time



MS, MSD, RPD- Failure may occur due to matrix interference, data released per QA plan

Wednesday, July 12, 2017

B Environmental - LDMS QA Report Summary

Note:

THANK YOU!



DHL Analytical, Inc.

Date: 21-Jun-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Lab Order: 1706106

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition and Standard Methods.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives except where noted in the following. For Total Metals Analysis, the recoveries of up to three analytes for the Matrix Spike and Matrix Spike Duplicate (1706105-03 MS/MSD) were outside of the method control limits. These are flagged accordingly in the QC Summary Report. These analytes were within method control limits in the associated LCS. No further corrective action was taken.

For Total Metals Analysis, the RPD of Boron for the Serial Dilution (1706105-03 SD) was above the method control limit. This is flagged accordingly in the QC Summary Report. This analyte was within method control limits in the associated Post Digestion Spike. No further corrective action was taken.

For Total/Dissolved Metals Analysis, the results of Dissolved Lithium/Molybdenum for two samples were slightly higher than the results of Total Lithium/Molybdenum. The results were within acceptable analytical variation limits. No further corrective action was taken.

DHL Analytical, Inc.

Date: 21-Jun-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (56324)
Lab Order: 1706106

Client Sample ID: MW-5
Lab ID: 1706106-01
Alternate ID: S171591626
Collection Date: 06/08/17 08:10 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | | | | Analyst: CVD |
| Dissolved Lithium | 0.0177 | 0.00500 | 0.0100 | | mg/L | 1 | 06/12/17 02:41 PM |
| Dissolved Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/12/17 02:41 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | | | | Analyst: CVD |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 06/13/17 01:08 PM |
| Arsenic | 0.00908 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:08 PM |
| Barium | 0.0701 | 0.00300 | 0.0100 | | mg/L | 1 | 06/13/17 01:08 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 01:08 PM |
| Boron | 0.122 | 0.0100 | 0.0300 | | mg/L | 1 | 06/13/17 01:08 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 01:08 PM |
| Calcium | 118 | 1.00 | 3.00 | | mg/L | 10 | 06/13/17 12:23 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:08 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 06/13/17 01:08 PM |
| Lead | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 01:08 PM |
| Lithium | 0.0200 | 0.00500 | 0.0100 | | mg/L | 1 | 06/13/17 01:08 PM |
| Magnesium | 23.4 | 0.100 | 0.300 | | mg/L | 1 | 06/13/17 01:08 PM |
| Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:08 PM |
| Potassium | 1.52 | 0.100 | 0.300 | | mg/L | 1 | 06/13/17 01:08 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:08 PM |
| Sodium | 127 | 1.00 | 3.00 | | mg/L | 10 | 06/13/17 12:23 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 06/13/17 01:08 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | | | Analyst: AH |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 06/12/17 03:35 PM |
| ALKALINITY | | M2320 B | | | | | Analyst: BTJ |
| Alkalinity, Bicarbonate (As CaCO3) | 288 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/18/17 03:48 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/18/17 03:48 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/18/17 03:48 PM |
| Alkalinity, Total (As CaCO3) | 288 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/18/17 03:48 PM |

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 21-Jun-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (56324)
Lab Order: 1706106

Client Sample ID: MW-10
Lab ID: 1706106-02
Alternate ID: S17159162A
Collection Date: 06/08/17 08:35 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|--------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: CVD | | | |
| Dissolved Lithium | 0.0151 | 0.00500 | 0.0100 | | mg/L | 1 | 06/12/17 02:55 PM |
| Dissolved Molybdenum | 0.106 | 0.00200 | 0.00500 | | mg/L | 1 | 06/12/17 02:55 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: CVD | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 06/13/17 01:47 PM |
| Arsenic | 0.0144 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:47 PM |
| Barium | 0.0544 | 0.00300 | 0.0100 | | mg/L | 1 | 06/13/17 01:47 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 01:47 PM |
| Boron | 7.54 | 0.100 | 0.300 | | mg/L | 10 | 06/13/17 12:25 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 01:47 PM |
| Calcium | 58.1 | 1.00 | 3.00 | | mg/L | 10 | 06/13/17 12:25 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:47 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 06/13/17 01:47 PM |
| Lead | 0.000551 | 0.000300 | 0.00100 | J | mg/L | 1 | 06/13/17 01:47 PM |
| Lithium | 0.0115 | 0.00500 | 0.0100 | | mg/L | 1 | 06/13/17 01:47 PM |
| Magnesium | 9.43 | 0.100 | 0.300 | | mg/L | 1 | 06/13/17 01:47 PM |
| Molybdenum | 0.106 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:47 PM |
| Potassium | 0.817 | 0.100 | 0.300 | | mg/L | 1 | 06/13/17 01:47 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/13/17 01:47 PM |
| Sodium | 133 | 1.00 | 3.00 | | mg/L | 10 | 06/13/17 12:25 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 06/13/17 01:47 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 06/12/17 03:38 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 236 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/18/17 04:07 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/18/17 04:07 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/18/17 04:07 PM |
| Alkalinity, Total (As CaCO3) | 236 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/18/17 04:07 PM |

Qualifiers:

| | | | |
|-----|---|----|---|
| * | Value exceeds TCLP Maximum Concentration Level | B | Analyte detected in the associated Method Blank |
| C | Sample Result or QC discussed in the Case Narrative | DF | Dilution Factor |
| E | TPH pattern not Gas or Diesel Range Pattern | J | Analyte detected between MDL and RL |
| MDL | Method Detection Limit | ND | Not Detected at the Method Detection Limit |
| RL | Reporting Limit | S | Spike Recovery outside control limits |

Page 2 of 3

DHL Analytical, Inc.

Date: 21-Jun-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (56324)
Lab Order: 1706106

Client Sample ID: MW-10A
Lab ID: 1706106-03
Alternate ID: S17159162B
Collection Date: 06/08/17 09:00 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|--------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: CVD | | | |
| Dissolved Lithium | 0.0248 | 0.00500 | 0.0100 | | mg/L | 1 | 06/12/17 02:57 PM |
| Dissolved Molybdenum | 0.00225 | 0.00200 | 0.00500 | J | mg/L | 1 | 06/12/17 02:57 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: CVD | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 06/13/17 01:13 PM |
| Arsenic | 0.00495 | 0.00200 | 0.00500 | J | mg/L | 1 | 06/13/17 01:13 PM |
| Barium | 0.0963 | 0.00300 | 0.0100 | | mg/L | 1 | 06/13/17 01:13 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 01:13 PM |
| Boron | 0.205 | 0.0100 | 0.0300 | | mg/L | 1 | 06/13/17 01:13 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/13/17 01:13 PM |
| Calcium | 178 | 1.00 | 3.00 | | mg/L | 10 | 06/13/17 01:06 PM |
| Chromium | 0.00219 | 0.00200 | 0.00500 | J | mg/L | 1 | 06/13/17 01:13 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 06/13/17 01:13 PM |
| Lead | 0.000548 | 0.000300 | 0.00100 | J | mg/L | 1 | 06/13/17 01:13 PM |
| Lithium | 0.0251 | 0.00500 | 0.0100 | | mg/L | 1 | 06/13/17 01:13 PM |
| Magnesium | 29.4 | 0.100 | 0.300 | | mg/L | 1 | 06/13/17 01:13 PM |
| Molybdenum | 0.00219 | 0.00200 | 0.00500 | J | mg/L | 1 | 06/13/17 01:13 PM |
| Potassium | 1.67 | 0.100 | 0.300 | | mg/L | 1 | 06/13/17 01:13 PM |
| Selenium | 0.00200 | 0.00200 | 0.00500 | J | mg/L | 1 | 06/13/17 01:13 PM |
| Sodium | 171 | 1.00 | 3.00 | | mg/L | 10 | 06/13/17 01:06 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 06/13/17 01:13 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 06/12/17 03:40 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 339 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 06/18/17 04:21 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 06/18/17 04:21 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 06/18/17 04:21 PM |
| Alkalinity, Total (As CaCO3) | 339 | 20.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 06/18/17 04:21 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 21-Jun-17

CLIENT: B-Environmental
Work Order: 1706106
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_170612A

The QC data in batch 80868 applies to the following samples: 1706106-01A, 1706106-02A, 1706106-03A

| | | | | | | | | | | |
|---------------------------|----------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID MB-80868 | Batch ID: 80868 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: MBLK | Run ID: CETAC2_HG_170612A | Analysis Date: 6/12/2017 2:52:41 PM | Prep Date: 6/12/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

Mercury <0.0000800 0.000200

| | | | | | | | | | | |
|----------------------------|----------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID LCS-80868 | Batch ID: 80868 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: LCS | Run ID: CETAC2_HG_170612A | Analysis Date: 6/12/2017 2:54:57 PM | Prep Date: 6/12/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

Mercury 0.00212 0.000200 0.00200 0 106 85 115

| | | | | | | | | | | |
|-----------------------------|----------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID LCSD-80868 | Batch ID: 80868 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: LCSD | Run ID: CETAC2_HG_170612A | Analysis Date: 6/12/2017 2:57:13 PM | Prep Date: 6/12/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

Mercury 0.00213 0.000200 0.00200 0 106 85 115 0.471 15

| | | | | | | | | | | |
|---------------------------------|----------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1706105-03A SD | Batch ID: 80868 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: SD | Run ID: CETAC2_HG_170612A | Analysis Date: 6/12/2017 3:10:48 PM | Prep Date: 6/12/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

Mercury <0.000400 0.00100 0 0 0 0 10

| | | | | | | | | | | |
|---------------------------------|----------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1706105-03A MS | Batch ID: 80868 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: MS | Run ID: CETAC2_HG_170612A | Analysis Date: 6/12/2017 3:15:20 PM | Prep Date: 6/12/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

Mercury 0.00206 0.000200 0.00200 0 103 80 120

| | | | | | | | | | | |
|----------------------------------|----------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1706105-03A MSD | Batch ID: 80868 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: MSD | Run ID: CETAC2_HG_170612A | Analysis Date: 6/12/2017 3:17:36 PM | Prep Date: 6/12/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

Mercury 0.00205 0.000200 0.00200 0 103 80 120 0.487 15

| | | | | | | | | | | |
|----------------------------------|----------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1706105-03A PDS | Batch ID: 80868 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: PDS | Run ID: CETAC2_HG_170612A | Analysis Date: 6/12/2017 3:45:40 PM | Prep Date: 6/12/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

Mercury 0.00240 0.000200 0.00250 0 96.0 85 115

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706106
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170612B

The QC data in batch 80853 applies to the following samples: 1706106-01B, 1706106-02B, 1706106-03B

| | | | |
|---------------------------|--------------------------------|--|--|
| Sample ID MB-80853 | Batch ID: 80853 | TestNo: SW6020A | Units: mg/L |
| SampType: MBLK | Run ID: ICP-MS5_170612B | Analysis Date: 6/12/2017 2:18:00 PM | Prep Date: 6/12/2017 |
| Analyte | Result | RL | SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Lithium | <0.00500 | 0.0100 | |
| Molybdenum | <0.00200 | 0.00500 | |

| | | | |
|----------------------------|--------------------------------|--|--|
| Sample ID LCS-80853 | Batch ID: 80853 | TestNo: SW6020A | Units: mg/L |
| SampType: LCS | Run ID: ICP-MS5_170612B | Analysis Date: 6/12/2017 2:20:00 PM | Prep Date: 6/12/2017 |
| Analyte | Result | RL | SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Lithium | 0.187 | 0.0100 | 0.200 0 93.7 80 120 |
| Molybdenum | 0.189 | 0.00500 | 0.200 0 94.6 80 120 |

| | | | |
|----------------------------|--------------------------------|--|--|
| Sample ID LCS-80853 | Batch ID: 80853 | TestNo: SW6020A | Units: mg/L |
| SampType: LCS | Run ID: ICP-MS5_170612B | Analysis Date: 6/12/2017 2:22:00 PM | Prep Date: 6/12/2017 |
| Analyte | Result | RL | SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Lithium | 0.187 | 0.0100 | 0.200 0 93.6 80 120 0.126 15 |
| Molybdenum | 0.186 | 0.00500 | 0.200 0 93.1 80 120 1.68 15 |

| | | | |
|---------------------------------|--------------------------------|--|--|
| Sample ID 1706105-03B SD | Batch ID: 80853 | TestNo: SW6020A | Units: mg/L |
| SampType: SD | Run ID: ICP-MS5_170612B | Analysis Date: 6/12/2017 2:25:00 PM | Prep Date: 6/12/2017 |
| Analyte | Result | RL | SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Lithium | <0.0250 | 0.0500 | 0 0.00999 0 10 |
| Molybdenum | <0.0100 | 0.0250 | 0 0.00916 0 10 |

| | | | |
|----------------------------------|--------------------------------|--|--|
| Sample ID 1706105-03B PDS | Batch ID: 80853 | TestNo: SW6020A | Units: mg/L |
| SampType: PDS | Run ID: ICP-MS5_170612B | Analysis Date: 6/12/2017 2:43:00 PM | Prep Date: 6/12/2017 |
| Analyte | Result | RL | SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Lithium | 0.203 | 0.0100 | 0.200 0.00999 96.3 80 120 |
| Molybdenum | 0.197 | 0.00500 | 0.200 0.00916 93.8 80 120 |

| | | | |
|---------------------------------|--------------------------------|--|--|
| Sample ID 1706105-03B MS | Batch ID: 80853 | TestNo: SW6020A | Units: mg/L |
| SampType: MS | Run ID: ICP-MS5_170612B | Analysis Date: 6/12/2017 2:45:00 PM | Prep Date: 6/12/2017 |
| Analyte | Result | RL | SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Lithium | 0.197 | 0.0100 | 0.200 0.00999 93.4 80 120 |
| Molybdenum | 0.198 | 0.00500 | 0.200 0.00916 94.4 80 120 |

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
 J Analyte detected between MDL and RL MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
 RL Reporting Limit S Spike Recovery outside control limits
 J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706106
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170612B

| Sample ID | 1706105-03B MSD | Batch ID: | 80853 | TestNo: | SW6020A | Units: | mg/L | | | |
|------------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|-------|----------|------|
| SampType: | MSD | Run ID: | ICP-MS5_170612B | Analysis Date: | 6/12/2017 2:47:00 PM | Prep Date: | 6/12/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.201 | 0.0100 | 0.200 | 0.00999 | 95.7 | 80 | 120 | 2.32 | 15 | |
| Molybdenum | 0.197 | 0.00500 | 0.200 | 0.00916 | 94.1 | 80 | 120 | 0.307 | 15 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL

DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706106
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170613A

The QC data in batch 80851 applies to the following samples: 1706106-01A, 1706106-02A, 1706106-03A

| | | | |
|---------------------------|--------------------------------|---|-----------------------------|
| Sample ID MB-80851 | Batch ID: 80851 | TestNo: SW6020A | Units: mg/L |
| SampType: MBLK | Run ID: ICP-MS5_170613A | Analysis Date: 6/13/2017 12:00:00 PM | Prep Date: 6/12/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|-----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | <0.000800 | 0.00250 | | | | | | | | |
| Arsenic | <0.00200 | 0.00500 | | | | | | | | |
| Barium | <0.00300 | 0.0100 | | | | | | | | |
| Beryllium | <0.000300 | 0.00100 | | | | | | | | |
| Boron | <0.0100 | 0.0300 | | | | | | | | |
| Cadmium | <0.000300 | 0.00100 | | | | | | | | |
| Calcium | <0.100 | 0.300 | | | | | | | | |
| Chromium | <0.00200 | 0.00500 | | | | | | | | |
| Cobalt | <0.00300 | 0.00500 | | | | | | | | |
| Lead | <0.000300 | 0.00100 | | | | | | | | |
| Lithium | <0.00500 | 0.0100 | | | | | | | | |
| Magnesium | <0.100 | 0.300 | | | | | | | | |
| Molybdenum | <0.00200 | 0.00500 | | | | | | | | |
| Potassium | <0.100 | 0.300 | | | | | | | | |
| Selenium | <0.00200 | 0.00500 | | | | | | | | |
| Sodium | <0.100 | 0.300 | | | | | | | | |
| Thallium | <0.000500 | 0.00150 | | | | | | | | |

| | | | |
|----------------------------|--------------------------------|---|-----------------------------|
| Sample ID LCS-80851 | Batch ID: 80851 | TestNo: SW6020A | Units: mg/L |
| SampType: LCS | Run ID: ICP-MS5_170613A | Analysis Date: 6/13/2017 12:02:00 PM | Prep Date: 6/12/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.197 | 0.00250 | 0.200 | 0 | 98.7 | 80 | 120 | | | |
| Arsenic | 0.198 | 0.00500 | 0.200 | 0 | 98.9 | 80 | 120 | | | |
| Barium | 0.195 | 0.0100 | 0.200 | 0 | 97.3 | 80 | 120 | | | |
| Beryllium | 0.199 | 0.00100 | 0.200 | 0 | 99.6 | 80 | 120 | | | |
| Boron | 0.191 | 0.0300 | 0.200 | 0 | 95.4 | 80 | 120 | | | |
| Cadmium | 0.197 | 0.00100 | 0.200 | 0 | 98.5 | 80 | 120 | | | |
| Calcium | 5.09 | 0.300 | 5.00 | 0 | 102 | 80 | 120 | | | |
| Chromium | 0.196 | 0.00500 | 0.200 | 0 | 98.2 | 80 | 120 | | | |
| Cobalt | 0.200 | 0.00500 | 0.200 | 0 | 99.9 | 80 | 120 | | | |
| Lead | 0.196 | 0.00100 | 0.200 | 0 | 98.2 | 80 | 120 | | | |
| Lithium | 0.197 | 0.0100 | 0.200 | 0 | 98.3 | 80 | 120 | | | |
| Magnesium | 5.05 | 0.300 | 5.00 | 0 | 101 | 80 | 120 | | | |
| Molybdenum | 0.190 | 0.00500 | 0.200 | 0 | 94.8 | 80 | 120 | | | |
| Potassium | 4.95 | 0.300 | 5.00 | 0 | 99.1 | 80 | 120 | | | |
| Selenium | 0.197 | 0.00500 | 0.200 | 0 | 98.6 | 80 | 120 | | | |
| Sodium | 5.18 | 0.300 | 5.00 | 0 | 104 | 80 | 120 | | | |
| Thallium | 0.204 | 0.00150 | 0.200 | 0 | 102 | 80 | 120 | | | |

| | | | |
|--------------------|---|---|--|
| Qualifiers: | B Analyte detected in the associated Method Blank | DF Dilution Factor | |
| | J Analyte detected between MDL and RL | MDL Method Detection Limit | |
| | ND Not Detected at the Method Detection Limit | R RPD outside accepted control limits | |
| | RL Reporting Limit | S Spike Recovery outside control limits | |
| | J Analyte detected between SDL and RL | N Parameter not NELAC certified | |

CLIENT: B-Environmental
Work Order: 1706106
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170613A

| Sample ID: LCSD-80851 | Batch ID: 80851 | TestNo: SW6020A | Units: mg/L | | | | | | | |
|------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|-------|----------|------|
| SampType: LCSD | Run ID: ICP-MS5_170613A | Analysis Date: 6/13/2017 12:04:00 PM | Prep Date: 6/12/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Antimony | 0.198 | 0.00250 | 0.200 | 0 | 98.9 | 80 | 120 | 0.215 | 15 | |
| Arsenic | 0.199 | 0.00500 | 0.200 | 0 | 99.7 | 80 | 120 | 0.809 | 15 | |
| Barium | 0.194 | 0.0100 | 0.200 | 0 | 97.2 | 80 | 120 | 0.095 | 15 | |
| Beryllium | 0.199 | 0.00100 | 0.200 | 0 | 99.4 | 80 | 120 | 0.214 | 15 | |
| Boron | 0.204 | 0.0300 | 0.200 | 0 | 102 | 80 | 120 | 6.78 | 15 | |
| Cadmium | 0.195 | 0.00100 | 0.200 | 0 | 97.5 | 80 | 120 | 1.02 | 15 | |
| Calcium | 4.96 | 0.300 | 5.00 | 0 | 99.3 | 80 | 120 | 2.53 | 15 | |
| Chromium | 0.194 | 0.00500 | 0.200 | 0 | 96.9 | 80 | 120 | 1.36 | 15 | |
| Cobalt | 0.201 | 0.00500 | 0.200 | 0 | 100 | 80 | 120 | 0.402 | 15 | |
| Lead | 0.196 | 0.00100 | 0.200 | 0 | 98.0 | 80 | 120 | 0.228 | 15 | |
| Lithium | 0.196 | 0.0100 | 0.200 | 0 | 98.1 | 80 | 120 | 0.140 | 15 | |
| Magnesium | 5.06 | 0.300 | 5.00 | 0 | 101 | 80 | 120 | 0.309 | 15 | |
| Molybdenum | 0.189 | 0.00500 | 0.200 | 0 | 94.3 | 80 | 120 | 0.493 | 15 | |
| Potassium | 4.95 | 0.300 | 5.00 | 0 | 99.0 | 80 | 120 | 0.086 | 15 | |
| Selenium | 0.199 | 0.00500 | 0.200 | 0 | 99.5 | 80 | 120 | 0.906 | 15 | |
| Sodium | 5.17 | 0.300 | 5.00 | 0 | 103 | 80 | 120 | 0.186 | 15 | |
| Thallium | 0.202 | 0.00150 | 0.200 | 0 | 101 | 80 | 120 | 0.901 | 15 | |

| Sample ID: 1706105-03A SD | Batch ID: 80851 | TestNo: SW6020A | Units: mg/L | | | | | | | |
|----------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: SD | Run ID: ICP-MS5_170613A | Analysis Date: 6/13/2017 12:09:00 PM | Prep Date: 6/12/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 1.20 | 1.50 | 0 | 0.884 | | | | 30.7 | 10 | R |
| Calcium | 70.5 | 15.0 | 0 | 69.3 | | | | 1.73 | 10 | |
| Sodium | 111 | 15.0 | 0 | 110 | | | | 1.14 | 10 | |

| Sample ID: 1706105-03A PDS | Batch ID: 80851 | TestNo: SW6020A | Units: mg/L | | | | | | | |
|-----------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: PDS | Run ID: ICP-MS5_170613A | Analysis Date: 6/13/2017 12:27:00 PM | Prep Date: 6/12/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 3.06 | 0.300 | 2.00 | 0.884 | 109 | 80 | 120 | | | |
| Calcium | 117 | 3.00 | 50.0 | 69.3 | 95.8 | 80 | 120 | | | |
| Sodium | 162 | 3.00 | 50.0 | 110 | 105 | 80 | 120 | | | |

| Sample ID: 1706105-03A MS | Batch ID: 80851 | TestNo: SW6020A | Units: mg/L | | | | | | | |
|----------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: MS | Run ID: ICP-MS5_170613A | Analysis Date: 6/13/2017 12:28:00 PM | Prep Date: 6/12/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 1.26 | 0.300 | 0.200 | 0.884 | 190 | 80 | 120 | | | S |
| Calcium | 71.3 | 3.00 | 5.00 | 69.3 | 41.0 | 80 | 120 | | | S |
| Sodium | 113 | 3.00 | 5.00 | 110 | 65.7 | 80 | 120 | | | S |

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
 J Analyte detected between MDL and RL MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
 RL Reporting Limit S Spike Recovery outside control limits
 J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706106
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170613A

| Sample ID | 1706105-03A MSD | Batch ID: | 80851 | TestNo: | SW6020A | Units: | mg/L | | | |
|-----------|-----------------|-----------|-----------------|----------------|-----------------------|------------|-----------|-------|----------|------|
| SampType: | MSD | Run ID: | ICP-MS5_170613A | Analysis Date: | 6/13/2017 12:30:00 PM | Prep Date: | 6/12/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 1.27 | 0.300 | 0.200 | 0.884 | 191 | 80 | 120 | 0.150 | 15 | S |
| Calcium | 73.8 | 3.00 | 5.00 | 69.3 | 90.1 | 80 | 120 | 3.38 | 15 | |
| Sodium | 115 | 3.00 | 5.00 | 110 | 103 | 80 | 120 | 1.62 | 15 | |

| Sample ID | 1706105-03A SD | Batch ID: | 80851 | TestNo: | SW6020A | Units: | mg/L | | | |
|------------|----------------|-----------|-----------------|----------------|----------------------|------------|-----------|------|----------|------|
| SampType: | SD | Run ID: | ICP-MS5_170613A | Analysis Date: | 6/13/2017 1:33:00 PM | Prep Date: | 6/12/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Antimony | <0.00400 | 0.0125 | 0 | 0 | | | | 0 | 10 | |
| Arsenic | 0.0103 | 0.0250 | 0 | 0.00944 | | | | 8.71 | 10 | |
| Barium | 0.0877 | 0.0500 | 0 | 0.0891 | | | | 1.52 | 10 | |
| Beryllium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Cadmium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Chromium | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Cobalt | <0.0150 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Lead | <0.00150 | 0.00500 | 0 | 0.000470 | | | | 0 | 10 | |
| Lithium | <0.0250 | 0.0500 | 0 | 0.00998 | | | | 0 | 10 | |
| Magnesium | 10.0 | 1.50 | 0 | 10.2 | | | | 1.91 | 10 | |
| Molybdenum | <0.0100 | 0.0250 | 0 | 0.00958 | | | | 0 | 10 | |
| Potassium | 1.24 | 1.50 | 0 | 1.25 | | | | 1.08 | 10 | |
| Selenium | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Thallium | <0.00250 | 0.00750 | 0 | 0 | | | | 0 | 10 | |

| Sample ID | 1706105-03A PDS | Batch ID: | 80851 | TestNo: | SW6020A | Units: | mg/L | | | |
|------------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|------|----------|------|
| SampType: | PDS | Run ID: | ICP-MS5_170613A | Analysis Date: | 6/13/2017 1:49:00 PM | Prep Date: | 6/12/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Antimony | 0.199 | 0.00250 | 0.200 | 0 | 99.5 | 80 | 120 | | | |
| Arsenic | 0.205 | 0.00500 | 0.200 | 0.00944 | 97.8 | 80 | 120 | | | |
| Barium | 0.281 | 0.0100 | 0.200 | 0.0891 | 95.7 | 80 | 120 | | | |
| Beryllium | 0.198 | 0.00100 | 0.200 | 0 | 98.9 | 80 | 120 | | | |
| Cadmium | 0.196 | 0.00100 | 0.200 | 0 | 97.9 | 80 | 120 | | | |
| Chromium | 0.201 | 0.00500 | 0.200 | 0 | 101 | 80 | 120 | | | |
| Cobalt | 0.195 | 0.00500 | 0.200 | 0 | 97.5 | 80 | 120 | | | |
| Lead | 0.194 | 0.00100 | 0.200 | 0.000470 | 96.6 | 80 | 120 | | | |
| Lithium | 0.201 | 0.0100 | 0.200 | 0.00998 | 95.6 | 80 | 120 | | | |
| Magnesium | 14.3 | 0.300 | 5.00 | 10.2 | 82.3 | 80 | 120 | | | |
| Molybdenum | 0.197 | 0.00500 | 0.200 | 0.00958 | 93.6 | 80 | 120 | | | |
| Potassium | 5.88 | 0.300 | 5.00 | 1.25 | 92.6 | 80 | 120 | | | |
| Selenium | 0.191 | 0.00500 | 0.200 | 0 | 95.7 | 80 | 120 | | | |
| Thallium | 0.201 | 0.00150 | 0.200 | 0 | 100 | 80 | 120 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706106
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170613A

| Sample ID | 1706105-03A MS | Batch ID: | 80851 | TestNo: | SW6020A | Units: | mg/L | | | |
|------------|----------------|-----------|-----------------|----------------|----------------------|------------|-----------|------|----------|------|
| SampType: | MS | Run ID: | ICP-MS5_170613A | Analysis Date: | 6/13/2017 1:51:00 PM | Prep Date: | 6/12/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Antimony | 0.200 | 0.00250 | 0.200 | 0 | 99.9 | 80 | 120 | | | |
| Arsenic | 0.203 | 0.00500 | 0.200 | 0.00944 | 96.9 | 80 | 120 | | | |
| Barium | 0.282 | 0.0100 | 0.200 | 0.0891 | 96.2 | 80 | 120 | | | |
| Beryllium | 0.193 | 0.00100 | 0.200 | 0 | 96.7 | 80 | 120 | | | |
| Cadmium | 0.193 | 0.00100 | 0.200 | 0 | 96.4 | 80 | 120 | | | |
| Chromium | 0.193 | 0.00500 | 0.200 | 0 | 96.6 | 80 | 120 | | | |
| Cobalt | 0.193 | 0.00500 | 0.200 | 0 | 96.4 | 80 | 120 | | | |
| Lead | 0.194 | 0.00100 | 0.200 | 0.000470 | 96.8 | 80 | 120 | | | |
| Lithium | 0.200 | 0.0100 | 0.200 | 0.00998 | 95.3 | 80 | 120 | | | |
| Magnesium | 14.8 | 0.300 | 5.00 | 10.2 | 90.9 | 80 | 120 | | | |
| Molybdenum | 0.199 | 0.00500 | 0.200 | 0.00958 | 94.6 | 80 | 120 | | | |
| Potassium | 5.98 | 0.300 | 5.00 | 1.25 | 94.5 | 80 | 120 | | | |
| Selenium | 0.188 | 0.00500 | 0.200 | 0 | 94.2 | 80 | 120 | | | |
| Thallium | 0.205 | 0.00150 | 0.200 | 0 | 102 | 80 | 120 | | | |

| Sample ID | 1706105-03A MSD | Batch ID: | 80851 | TestNo: | SW6020A | Units: | mg/L | | | |
|------------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|-------|----------|------|
| SampType: | MSD | Run ID: | ICP-MS5_170613A | Analysis Date: | 6/13/2017 1:53:00 PM | Prep Date: | 6/12/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Antimony | 0.199 | 0.00250 | 0.200 | 0 | 99.4 | 80 | 120 | 0.567 | 15 | |
| Arsenic | 0.202 | 0.00500 | 0.200 | 0.00944 | 96.2 | 80 | 120 | 0.675 | 15 | |
| Barium | 0.283 | 0.0100 | 0.200 | 0.0891 | 97.0 | 80 | 120 | 0.580 | 15 | |
| Beryllium | 0.193 | 0.00100 | 0.200 | 0 | 96.3 | 80 | 120 | 0.397 | 15 | |
| Cadmium | 0.192 | 0.00100 | 0.200 | 0 | 96.2 | 80 | 120 | 0.200 | 15 | |
| Chromium | 0.193 | 0.00500 | 0.200 | 0 | 96.4 | 80 | 120 | 0.216 | 15 | |
| Cobalt | 0.192 | 0.00500 | 0.200 | 0 | 96.0 | 80 | 120 | 0.436 | 15 | |
| Lead | 0.192 | 0.00100 | 0.200 | 0.000470 | 95.8 | 80 | 120 | 0.941 | 15 | |
| Lithium | 0.198 | 0.0100 | 0.200 | 0.00998 | 93.9 | 80 | 120 | 1.34 | 15 | |
| Magnesium | 14.9 | 0.300 | 5.00 | 10.2 | 93.1 | 80 | 120 | 0.743 | 15 | |
| Molybdenum | 0.199 | 0.00500 | 0.200 | 0.00958 | 94.7 | 80 | 120 | 0.097 | 15 | |
| Potassium | 5.96 | 0.300 | 5.00 | 1.25 | 94.2 | 80 | 120 | 0.215 | 15 | |
| Selenium | 0.189 | 0.00500 | 0.200 | 0 | 94.5 | 80 | 120 | 0.368 | 15 | |
| Thallium | 0.202 | 0.00150 | 0.200 | 0 | 101 | 80 | 120 | 1.53 | 15 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706106
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_170618A

The QC data in batch 80973 applies to the following samples: 1706106-01C, 1706106-02C, 1706106-03C

| | | | |
|---------------------------|---------------------------------|--|------------------------------|
| Sample ID MB-80973 | Batch ID: 80973 | TestNo: M2320 B | Units: mg/L @ pH 4.42 |
| SampType: MBLK | Run ID: TITRATOR_170618A | Analysis Date: 6/18/2017 3:32:00 PM | Prep Date: 6/18/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Total (As CaCO3) | <20.0 | 20.0 | | | | | | | | |

| | | | |
|----------------------------|---------------------------------|--|------------------------------|
| Sample ID LCS-80973 | Batch ID: 80973 | TestNo: M2320 B | Units: mg/L @ pH 3.95 |
| SampType: LCS | Run ID: TITRATOR_170618A | Analysis Date: 6/18/2017 3:36:00 PM | Prep Date: 6/18/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Total (As CaCO3) | 53.1 | 20.0 | 50.00 | 0 | 106 | 74 | 129 | | | |

| | | | |
|----------------------------------|---------------------------------|--|------------------------------|
| Sample ID 1706106-01C-DUP | Batch ID: 80973 | TestNo: M2320 B | Units: mg/L @ pH 4.52 |
| SampType: DUP | Run ID: TITRATOR_170618A | Analysis Date: 6/18/2017 3:59:00 PM | Prep Date: 6/18/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | 285 | 20.0 | 0 | 288.2 | | | | 1.22 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | 285 | 20.0 | 0 | 288.2 | | | | 1.22 | 20 | |

| | | | |
|----------------------------------|---------------------------------|--|------------------------------|
| Sample ID 1706153-01E-DUP | Batch ID: 80973 | TestNo: M2320 B | Units: mg/L @ pH 4.52 |
| SampType: DUP | Run ID: TITRATOR_170618A | Analysis Date: 6/18/2017 6:26:00 PM | Prep Date: 6/18/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | 225 | 20.0 | 0 | 227.2 | | | | 0.840 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | 225 | 20.0 | 0 | 227.2 | | | | 0.840 | 20 | |

| | | | | |
|--------------------|----|---|-----|---------------------------------------|
| Qualifiers: | B | Analyte detected in the associated Method Blank | DF | Dilution Factor |
| | J | Analyte detected between MDL and RL | MDL | Method Detection Limit |
| | ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| | RL | Reporting Limit | S | Spike Recovery outside control limits |
| | J | Analyte detected between SDL and RL | N | Parameter not NELAC certified |

2609 North River Road, Port Allen, Louisiana 70767
(800) 401-4277 -- FAX (225) 381-2996



ARS International, LLC

Laboratory Analysis Report

ARS1-17-01673

Prepared for:

B-Environmental

**Kevin Baros
1606 East Brazos Street
Suite D
Victoria, TX 77901**

**dbenviro@suddenlinkmail.com; cbenviro@suddenlinkmail.com
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Project Manager Review

Management Review

Notes: ARS International, LLC assumes no liability for the use or the interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

Contact Person: Questions regarding this analytical report should be addressed to:

**Project Manager
ProjectManagers@amrad.com**

**Phone: 225.381.2991
Fax: 225.381.2996**



LELAP Cert# 01949



2609 North River Road, Port Allen, Louisiana 70767
 1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01673

Request or PO Number: N/A

Client Sample ID: S171591626 (BATCH 56324)

ARS Sample ID: ARS1-17-01673-001

Sample Collection Date: 06/08/17

Date Received: 06/12/17

Sample Matrix: Aqueous

Report Date: 07/11/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.105 | 0.101 | 0.147 | 0.054 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/30/17 8:49 | CTRAMEL | 106% |
| Ra-228 | 0.740 | 0.735 | 1.194 | 0.553 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/23/17 12:57 | CTRAMEL | 116% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-01673

Request or PO Number: N/A

Client Sample ID: S17159162A (BATCH 56324)

ARS Sample ID: ARS1-17-01673-002

Sample Collection Date: 06/08/17

Date Received: 06/12/17

Sample Matrix: Aqueous

Report Date: 07/11/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.062 | 0.094 | 0.161 | 0.061 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/30/17 8:49 | CTRAMEL | 91% |
| Ra-228 | 0.005 | 0.702 | 1.270 | 0.589 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 06/23/17 12:57 | CTRAMEL | 97% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-01673

Request or PO Number: N/A

Client Sample ID: S17159162B (BATCH 56324)

ARS Sample ID: ARS1-17-01673-003

Sample Collection Date: 06/08/17

Date Received: 06/12/17

Sample Matrix: Aqueous

Report Date: 07/11/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.654 | 0.220 | 0.145 | 0.054 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 06/30/17 8:49 | CTRAMEL | 105% |
| Ra-228 | 1.371 | 0.815 | 1.212 | 0.563 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 06/23/17 12:57 | CTRAMEL | 112% |

Project Manager Review

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QC Results Report

Sample Delivery Group: ARS1-17-01673

Laboratory Control Sample Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | LCS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|----------------------|
| ARS1-B17-01229 | LCS | RA-226 | 26.761 | 4.314 | 0.095 | 27.513 | N/A | pCi/L | ARS-010/EPA 903 | 6/30/17 8:49 | CT | 97 | 75%-125% |
| ARS1-B17-01229 | LCS | RA-228 | 37.902 | 6.314 | 1.125 | 39.784 | N/A | pCi/L | ARS-010/EPA 904 | 6/30/17 8:49 | CT | 95 | 75%-125% |

Blank Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|
| ARS1-B17-01229 | MBL | RA-226 | 0.015 | 0.049 | 0.094 | NA | U | pCi/L | ARS-010/EPA 903 | 6/30/17 8:49 | CT |
| ARS1-B17-01229 | MBL | RA-228 | -0.288 | 0.323 | 0.621 | NA | U | pCi/L | ARS-010/EPA 904 | 6/30/17 8:49 | CT |

RER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | RER | RER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01229 | LCSD | RA-226 | 26.761 | 4.314 | 30.342 | 4.894 | N/A | pCi/L | ARS-010/EPA 903 | 6/30/17 8:49 | CT | 0.39 | < 1 |
| ARS1-B17-01229 | LCSD | RA-228 | 37.902 | 6.314 | 39.765 | 6.630 | N/A | pCi/L | ARS-010/EPA 904 | 6/30/17 8:49 | CT | 0.14 | < 1 |

DER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | DER | DER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01229 | LCSD | RA-226 | 26.761 | 4.314 | 30.342 | 4.894 | N/A | pCi/L | ARS-010/EPA 903 | 6/30/17 8:49 | CT | 0.55 | < 3 |
| ARS1-B17-01229 | LCSD | RA-228 | 37.902 | 6.314 | 39.765 | 6.630 | N/A | pCi/L | ARS-010/EPA 904 | 6/30/17 8:49 | CT | 0.20 | < 3 |

Project Manager Review

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LELAP Certificate# 01949

NELAP Certificate # E87558



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Notes (Case Narrative):

Comments:

- 1.0) All MDA/MDC values are calculated on a sample specific basis.
- 2.0) Soil and Sludge analysis are reported on a wet basis or an as received basis unless otherwise indicated.
- 3.0) Data in this report are within the limits of uncertainty specified in the reference method unless otherwise specified.
- 4.0) Modified analysis procedures are procedures that are modified to meet the certain specifications. An example may be the use of a water method to analyze a solid matrix due to the lack of an officially recognized procedure for the analysis of the solid matrix. Modified analyses are indicated by the subsequent addition of "m" to the procedure number (i.e. 900.0M).
- 5.0) Total activity is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring radioactive decay chains and other prominent radioactive nuclides. Total activity may be lower than the actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not representative of nuclides that emit solely alpha or beta particles.
- 6.0) Ra-228 is determined via secular equilibrium with its daughter, Actinium 228 (Gamma Spectroscopy only).
- 7.0) U-238 is determined via secular equilibrium with its daughter, Thorium 234 (Gamma Spectroscopy only).
- 8.0) All gamma spectroscopy was performed utilizing high purity germanium detectors (HPGe).
- 9.0) ARS makes every attempt to match sample density to calibrated density; however, in some cases, it is not practical or possible to do so and data results may be affected (Gamma Spectroscopy only).
- 10.0) Gamma spectroscopy results are calculated values based on the **ORTEC**[®] GammaVision ENV32 Analysis Engine.
- 11.0) ACLASS DOD and ISO 17025 certification applies only to the following analytes and methods: Gross Alpha and Gross Beta (EPA 900, SM7110B&C, SW846 9310); Radium 226 (EPA 903, EPA 903.1, SM 7500 Ra-B, SW846 9315); Radium 228 (EPA 904, SM 7500 Ra-B SW846 9320); Iodine-131 (EPA 901.1); Uranium by ICPMS (EPA 200.8); Strontium 89/90 (EPA 905, Eichrom SRW01, HASL 300 Sr-03-RC); Tritium (EPA 906, EPA 906M); Gamma Emitters (EPA 901.1, SM7120B, HASL 300 Ga-01-R); Americium-241, Curium 242/244, Plutonium 239/240 and 241, Thorium 228/230/232, Uranium 234/233 and 238 (Eichrom ACW03 VBS); Lead 210 (HASL 300 Pb-01-RC, Eichrom OTW01); Polonium 210 (HASL 300 Po-01-RC, HASL 300 Po-02-RC); Technetium-99 (Eichrom TCW02, Eichrom TCS01M).

Method References:

- 1.0) **EPA 600/4-80-032**; Prescribed Procedures for the Measurements of Radioactivity in Drinking Water, August 1980.
- 2.0) **Standard Methods for the Examination of Water and Wastewater** (On-Line Edition)
- 3.0) **EPA SW-846**; Test Methods for Evaluating Solid Waste, (On-Line edition)
- 4.0) **EPA 600/4/79-020**; Methods for Chemical Analysis of Water and Waste, March 1983.
- 5.0) **HASL 300**; The Procedures Manual of the Environmental Measurements Laboratory, Volume I, 28th Edition February, 1997.

Definitions:

| | |
|-----------------|---|
| CRDL | Contract Required Detection Limit |
| CSU | Combined Standard Uncertainty |
| DLC | Decision Level Concentration (ANSI N42.23) or critical level |
| DO | Duplicate Original |
| DUP | Method Duplicate |
| LCS/LCSD | Laboratory Control Sample/Laboratory Control Sample Duplicate |
| MDA | Minimum Detectable Activity |
| MDC | (Minimum Detectable Concentration) minimum concentration of the analyte that ARS can detect utilizing the specific analysis |
| MBL | Method Blank |
| MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| N/A | Not Applicable |
| NP | Not Provided |
| NR | Not Referenced |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |

Data Qualifiers:

| | |
|-----------|--|
| B | The analyte is found in both the associated method blank and the sample. This flag indicates probable blank contamination. |
| D | Sample analysis accomplished through dilution. |
| J | The reported result is an estimated value above the limit of detection but outside of quantitation range (e.g., matrix interference was observed). |
| Q | One or more quality control criteria failed (e.g., LCS recovery, surrogate spike recovery, or CCV recovery). |
| U | Activity is below the MDC, MDA, MDL, or LOD |
| N | The analyte is a tentatively identified compound using mass spectrometry or any non-customer requested compounds that are tentatively identified. |
| * | LCS/LCSD or MS/MSD fails RPD criteria. |
| S | Spike |
| SC | Subcontracted out to another qualified laboratory |
| H | Holding time exceeded |

ARS-059-010
Revision: 9.1
Revision Date: 03-14-2017

LELAP Cert# 01949

NELAP Cert# E87558

B Environmental Laboratory, LLC
 1606 E Brazos Suite D Victoria, Texas 77901 ph. (361) 572-8224

Chain Of Custody Rec Batch # 56324

TEMP UN-C: 2.3 Page of

Customer / Report Information

Billing Information

Check box if Billing is the same as Report Information

Therm ID # 3

TEMP CORR: 2.1

Name: Coleto Creek Power

Address:

Phone: 361-788-5145

FAX:

Attention: Rick Coleman

Attention:

PO #

EMAIL: richard.coleman@duneau.com

Address: P.O. Box 8; Fannin, TX 77960

Project: CCR Sampling

Requester Analysis

Completed By laboratory

Sample Information

Collected By:

Collected

Matrix

Container

Preservative

Metals: D
 Cl, F*, SO4 A
 pH A B
 TDS A B
 Ra226 & Ra228 F
 Alk: Tot, Carb, Bi Carb F
 Diss Li & Mo E

Custody Seals Present
 Yes No
 In tact
 Yes No
 LAB Sample Number

Client / Field Sample ID

Date

Matrix

Container

Preservative

Metals: D
 Cl, F*, SO4 A
 pH A B
 TDS A B
 Ra226 & Ra228 F
 Alk: Tot, Carb, Bi Carb F
 Diss Li & Mo E

Custody Seals Present
 Yes No
 In tact
 Yes No
 LAB Sample Number

MW-5

6-8-17 8:10

G WW

P 1L 500mL
 H2SO4
 H3PO4
 HCL
 Na2SO3

X X X X X X

S171591626

MW-10

8:35

G WW

P 1L 500mL
 H2SO4
 H3PO4
 HCL
 Na2SO3

X X X X X X

S17159162A

MW-10A

9:00

G WW

P 1L 500mL
 H2SO4
 H3PO4
 HCL
 Na2SO3

X X X X X X

S17159162B

G WW

P 1L 500mL
 H2SO4
 H3PO4
 HCL
 Na2SO3

X X X X X X

G WW

P 1L 500mL
 H2SO4
 H3PO4
 HCL
 Na2SO3

X X X X X X

G WW

P 1L 500mL
 H2SO4
 H3PO4
 HCL
 Na2SO3

X X X X X X

G WW

P 1L 500mL
 H2SO4
 H3PO4
 HCL
 Na2SO3

X X X X X X

Required Turnaround: Routine (6-10 Business days)

Expedite / Rush: 1 Business Day

2 Business Days

3 Business days

5 Business days

Other

Surcharge will apply to RUSH/AT Authorized By:

Container Type: P=Plastic, G=Glass, V=Voa, O=Other

Carrier ID:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Carrier ID:

REMARKS:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Carrier ID:

REMARKS:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Carrier ID:

REMARKS:

BatchNo: 56751

SAMPLE REPORT



T104704328-17-14

Business

Coletto Creek Power - R Coleman
PO Box 8
Fannin TX 77960
Att: Rick Coleman



Laboratory

B Environmental, LLC.
1606 E Brazos, Suite D
Victoria TX 77901
ph. 361-572-8224

Reference Information

Project: CCR
Printed: Wednesday,
July 26, 2017

Re: Coletto Creek Power - R Coleman

Dear: Rick Coleman

Attached are the results for sample(s) received on 6/20/2017

The analytical results relate only to the samples tested.
All supporting quality data meets the requirements of NELAC unless noted in the case narrative section of the report.

This report contains 55 pages (including the cover page)

If you have any questions concerning this report, please do not hesitate to call (361) 572-8224 or Fax us at (361) 572-4115

Respectfully Submitted,

Kevin Baros
Laboratory Director



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B Environmental, LLC.

BatchNo:

56751

1606 E Brazos, Suite D

Victoria TX 77901

Batch No: 56751

Sample Receipt Checklist

Date Received: 6/20/2017

Project

CCR

Received By:

Vahrenkamp

Login completed by:

Vahrenkamp

6/20/2017

Signature

LoginDate:

Carrier Name Walk In

- Shipping container/cooler in good condition? YES NO Not Present
- Custody seals intact on shipping container/cooler? YES NO Not Present
- Custody seals intact on sample bottles? YES NO Not Present
- Chain of Custody present? YES NO
- Chain of Custody signed when relinquished and received YES NO
- Chain of Custody agrees with sample labels? YES NO
- Samples in proper container/bottles? YES NO
- Sample containers intact? YES NO
- Sufficient sample volume for indicated tests? YES NO
- All samples received within holding times? YES NO
- Container/Temp Blank - temperature in compliance? YES NO >0 <6 °C On Ice
- Water - VOA vials have zero headspace? Bubble < 6mm? YES NO No VOA Vials submitted
- Water - pH acceptable upon receipt? YES NO Not Applicable

*TEMP 4.8/4.6

pH Adjusted? No

Checked By L. Vahrenkamp

Any No and/or N/A (not applicable) response must be detailed in the comments section below.

Client contacted

PersonContacted

Contacted by:

Date Contacted:

Regarding

Comments

Therm #3. HNO3 Lot # 2-42-12. pH Paper Lot # 2-25-6.

Corrective Action



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BatchNo:

56751

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Sample Report Information



| | | | | | |
|------------|------------|------------|-------|----------|--------|
| Sample ID: | S171711827 | Client ID: | Blank | Sampler: | Client |
|------------|------------|------------|-------|----------|--------|

Client: Coletto Creek Power - R Coleman

Batch No: 56751

Study: Water

Sampled: 6/20/2017

3:00 PM

Project: CCR

Location: Blank

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | < 1 | mg/L | EPA 300 | K Baros | 6/21/2017 23:08 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | < 20 | mg/L | SM 2320 B | | 6/27/2017 9:08 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/27/2017 9:08 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | < 20 | mg/L | SM 2320 B | | 6/27/2017 9:08 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | < 0.25 | mg/L | EPA 300 | K Baros | 6/21/2017 23:08 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 6.68 | SU | SM 4500-H+B | C Watts | 6/20/2017 16:50 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | < 25 | mg/L | SM2540C | C Watts | 6/21/2017 16:30 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 6/29/2017 15:15 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | < 1 | mg/L | EPA 300 | K Baros | 6/21/2017 23:08 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/14/2017 7:39 | | | | | | <input checked="" type="checkbox"/> ARS International |



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BatchNo: 56751

Victoria TX 77901

Sample Report Information



| | | | | | |
|------------|------------|------------|-----|----------|--------|
| Sample ID: | S17171182A | Client ID: | Dup | Sampler: | Client |
|------------|------------|------------|-----|----------|--------|

Client: Coletto Creek Power - R Coleman
 Study: Water
 Project: CCR
 Location: Dup
 Notes:

Batch No: 56751
 Sampled: 6/20/2017 12:00 AM
 Type: Grab
 Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 39 | mg/L | EPA 300 | K Baros | 6/21/2017 14:14 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 245 | mg/L | SM 2320 B | | 6/27/2017 9:17 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/27/2017 9:17 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 245 | mg/L | SM 2320 B | | 6/27/2017 9:17 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.54 | mg/L | EPA 300 | K Baros | 6/21/2017 14:14 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.22 | SU | SM 4500-H+B | C Watts | 6/20/2017 16:50 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 330 | mg/L | SM2540C | C Watts | 6/21/2017 16:30 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 6/29/2017 15:47 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 27 | mg/L | EPA 300 | K Baros | 6/21/2017 14:14 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/14/2017 7:40 | | | | | <input checked="" type="checkbox"/> | ARS International |



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Victoria TX 77901

Sample Report Information



| | | | |
|------------------------------|-------------------------|-----------------|---------------|
| Sample ID: S17171182B | Client ID: BV-21 | Sampler: | Client |
|------------------------------|-------------------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman
Study: Water
Project: CCR
Location: BV 21
Notes:

Batch No: 56751
Sampled: 6/20/2017 10:45 AM

Type: Grab
Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 40 | mg/L | EPA 300 | K Baros | 6/21/2017 14:52 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 240 | mg/L | SM 2320 B | | 6/27/2017 9:26 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/27/2017 9:26 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 240 | mg/L | SM 2320 B | | 6/27/2017 9:26 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.61 | mg/L | EPA 300 | K Baros | 6/21/2017 14:52 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.11 | SU | SM 4500-H+B | C Watts | 6/20/2017 16:50 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 356 | mg/L | SM2540C | C Watts | 6/21/2017 16:30 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 6/29/2017 14:57 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 45 | mg/L | EPA 300 | K Baros | 6/21/2017 14:52 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/14/2017 7:40 | | | | | <input checked="" type="checkbox"/> | ARS International |



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BatchNo: 56751

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Sample Report Information



| | | | |
|------------------------------|-------------------------|-----------------|---------------|
| Sample ID: S17171182C | Client ID: BV-22 | Sampler: | Client |
|------------------------------|-------------------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman
 Study: Water
 Project: CCR
 Location: BV 22
 Notes:

Batch No: 56751
 Sampled: 6/20/2017 9:35 AM
 Type: Grab
 Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 39 | mg/L | EPA 300 | K Baros | 6/21/2017 16:46 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 246 | mg/L | SM 2320 B | | 6/27/2017 9:44 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/27/2017 9:44 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 246 | mg/L | SM 2320 B | | 6/27/2017 9:44 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.54 | mg/L | EPA 300 | K Baros | 6/21/2017 16:46 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.17 | SU | SM 4500-H+B | C Watts | 6/20/2017 16:50 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 320 | mg/L | SM2540C | C Watts | 6/21/2017 16:30 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 6/29/2017 15:49 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 27 | mg/L | EPA 300 | K Baros | 6/21/2017 16:46 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/14/2017 7:40 | | | | | | <input checked="" type="checkbox"/> ARS International |



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Sample Report Information



| | | | | | |
|------------|-------------------|------------|--------------|----------|---------------|
| Sample ID: | S17171182D | Client ID: | BV-15 | Sampler: | Client |
|------------|-------------------|------------|--------------|----------|---------------|

Client: Coletto Creek Power - R Coleman

Batch No: 56751

Study: Water

Sampled: 6/20/2017

11:20 AM

Project: CCR

Location: BV 15

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 50 | mg/L | EPA 300 | K Baros | 6/21/2017 17:25 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 198 | mg/L | SM 2320 B | | 6/27/2017 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/27/2017 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 198 | mg/L | SM 2320 B | | 6/27/2017 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.82 | mg/L | EPA 300 | K Baros | 6/21/2017 17:25 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.33 | SU | SM 4500-H+B | C Watts | 6/20/2017 16:50 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 376 | mg/L | SM2540C | C Watts | 6/21/2017 16:30 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 6/29/2017 15:51 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 82 | mg/L | EPA 300 | K Baros | 6/21/2017 17:25 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/14/2017 7:39 | | | | | <input checked="" type="checkbox"/> | ARS International |



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Sample Report Information



| | | | | | |
|------------|------------|------------|------|----------|--------|
| Sample ID: | S17171182E | Client ID: | MW-4 | Sampler: | Client |
|------------|------------|------------|------|----------|--------|

Client: Coletto Creek Power - R Coleman

Batch No: 56751

Study: Water

Sampled: 6/20/2017

8:42 AM

Project: CCR

Location: MW #4

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 101 | mg/L | EPA 300 | K Baros | 6/21/2017 18:03 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 246 | mg/L | SM 2320 B | | 6/27/2017 10:01 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/27/2017 10:01 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 246 | mg/L | SM 2320 B | | 6/27/2017 10:01 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.62 | mg/L | EPA 300 | K Baros | 6/21/2017 18:03 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.07 | SU | SM 4500-H+B | C Watts | 6/20/2017 16:50 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 626 | mg/L | SM2540C | C Watts | 6/21/2017 16:30 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 6/29/2017 15:53 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 157 | mg/L | EPA 300 | K Baros | 6/21/2017 18:03 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/14/2017 7:39 | | | | | | <input checked="" type="checkbox"/> ARS International |



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BatchNo:

56751

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Sample Report Information



| | | | | | |
|------------|------------|------------|------|----------|--------|
| Sample ID: | S17171182F | Client ID: | MW-8 | Sampler: | Client |
|------------|------------|------------|------|----------|--------|

Client: Coletto Creek Power - R Coleman

Batch No: 56751

Study: Water

Sampled: 6/20/2017

10:11 AM

Project: CCR

Location: MW #8

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 67 | mg/L | EPA 300 | K Baros | 6/21/2017 18:41 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 262 | mg/L | SM 2320 B | | 6/27/2017 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/27/2017 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 262 | mg/L | SM 2320 B | | 6/27/2017 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.43 | mg/L | EPA 300 | K Baros | 6/21/2017 18:41 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.14 | SU | SM 4500-H+B | C Watts | 6/20/2017 16:50 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 476 | mg/L | SM2540C | C Watts | 6/21/2017 16:30 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 6/29/2017 15:54 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 89 | mg/L | EPA 300 | K Baros | 6/21/2017 18:41 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/14/2017 7:39 | | | | | | <input checked="" type="checkbox"/> ARS International |



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BatchNo: 56751

Sample Report Information



| | | | | | |
|------------|------------|------------|------|----------|--------|
| Sample ID: | S17171182G | Client ID: | BV-1 | Sampler: | Client |
|------------|------------|------------|------|----------|--------|

Client: Coletto Creek Power - R Coleman
 Study: Water
 Project: CCR
 Location: BV-1
 Notes:

Batch No: 56751
 Sampled: 6/20/2017 2:15 PM
 Type: Grab
 Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 138 | mg/L | EPA 300 | K Baros | 6/21/2017 20:35 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 399 | mg/L | SM 2320 B | | 6/27/2017 10:25 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/27/2017 10:25 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 399 | mg/L | SM 2320 B | | 6/27/2017 10:25 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.76 | mg/L | EPA 300 | K Baros | 6/21/2017 20:35 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.14 | SU | SM 4500-H+B | C Watts | 6/20/2017 16:50 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 856 | mg/L | SM2540C | C Watts | 6/21/2017 16:30 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 6/29/2017 15:56 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 176 | mg/L | EPA 300 | K Baros | 6/21/2017 20:35 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/19/2017 9:21 | | | | | | <input checked="" type="checkbox"/> ARS International |



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B Environmental, LLC.

BatchNo:

56751

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Victoria TX 77901

Sample Report Information



| | | | | | |
|------------|-------------------|------------|-------------|----------|---------------|
| Sample ID: | S17171182H | Client ID: | BV-5 | Sampler: | Client |
|------------|-------------------|------------|-------------|----------|---------------|

Client: Coletto Creek Power - R Coleman

Batch No: 56751

Study: Water

Sampled: 6/20/2017

2:43 PM

Project: CCR

Location: BV-5

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 106 | mg/L | EPA 300 | K Baros | 6/21/2017 21:13 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 354 | mg/L | SM 2320 B | | 6/27/2017 10:39 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/27/2017 10:39 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 354 | mg/L | SM 2320 B | | 6/27/2017 10:39 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.58 | mg/L | EPA 300 | K Baros | 6/21/2017 21:13 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.04 | SU | SM 4500-H+B | C Watts | 6/20/2017 16:50 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 716 | mg/L | SM2540C | C Watts | 6/21/2017 16:30 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 6/29/2017 15:58 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 145 | mg/L | EPA 300 | K Baros | 6/21/2017 21:13 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/19/2017 9:21 | | | | | | <input checked="" type="checkbox"/> ARS International |



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BatchNo: 56751

Sample Report Information



| | | | | | |
|------------|------------|------------|-------|----------|--------|
| Sample ID: | S17171182I | Client ID: | BV-10 | Sampler: | Client |
|------------|------------|------------|-------|----------|--------|

Client: Coletto Creek Power - R Coleman
 Study: Water
 Project: CCR
 Location: BV-10
 Notes:

Batch No: 56751
 Sampled: 6/20/2017 1:44 PM
 Type: Grab
 Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 84 | mg/L | EPA 300 | K Baros | 6/21/2017 21:51 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 292 | mg/L | SM 2320 B | | 6/27/2017 10:54 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/27/2017 10:54 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 292 | mg/L | SM 2320 B | | 6/27/2017 10:54 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.82 | mg/L | EPA 300 | K Baros | 6/21/2017 21:51 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.49 | SU | SM 4500-H+B | C Watts | 6/20/2017 16:50 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 532 | mg/L | SM2540C | C Watts | 6/21/2017 16:30 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 6/29/2017 13:34 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 78 | mg/L | EPA 300 | K Baros | 6/21/2017 21:51 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/19/2017 9:21 | | | | | | <input checked="" type="checkbox"/> ARS International |



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BatchNo: 56751

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Sample Report Information



| | | | |
|------------------------------|-------------------------|-----------------|---------------|
| Sample ID: S17171182J | Client ID: BV-19 | Sampler: | Client |
|------------------------------|-------------------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman
Study: Water
Project: CCR
Location: BV-19
Notes:

Batch No: 56751
Sampled: 6/20/2017 1:18 PM

Type: Grab
Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 125 | mg/L | EPA 300 | K Baros | 6/21/2017 22:29 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 325 | mg/L | SM 2320 B | | 6/27/2017 11:06 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/27/2017 11:06 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 325 | mg/L | SM 2320 B | | 6/27/2017 11:06 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.49 | mg/L | EPA 300 | K Baros | 6/21/2017 22:29 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 6.94 | SU | SM 4500-H+B | C Watts | 6/20/2017 16:50 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 786 | mg/L | SM2540C | C Watts | 6/22/2017 16:15 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 6/29/2017 16:01 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 57 | mg/L | EPA 300 | K Baros | 6/21/2017 22:29 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/19/2017 9:21 | | | | | <input checked="" type="checkbox"/> | ARS International |



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QA Summary Report

| Parameter | ID | Result | Ref Value | Amt Added | LOQ | Qualifier | Control | Flag | Comments |
|------------------------------------|------------|-----------|-----------|-----------|------|-----------|---------|----------|-------------------------------|
| .Method Blank | | | | | | | | | |
| - Chloride, IC | Q171862022 | <1mg/L | 0 | | | 1 | 1 | | Blank Acceptable. |
| 6/21/2017 10:25 | | | | | | | | | |
| Fluoride, IC | Q171862022 | <0.25mg/L | 0 | | 0.25 | | 0.25 | | Blank Acceptable. |
| 6/21/2017 10:25 | | | | | | | | | |
| Solids, Total Dissolved | Q171741139 | <25mg/L | 0 | | 10 | | 25 | | Blank Acceptable. |
| 6/21/2017 16:30 | | | | | | | | | |
| Solids, Total Dissolved | Q171771521 | <25mg/L | 0 | | 10 | | 25 | | Blank Acceptable. |
| 6/22/2017 16:15 | | | | | | | | | |
| Sulfate, IC | Q171862022 | <1mg/L | 0 | | | 1 | 1 | | Blank Acceptable. |
| 6/21/2017 10:25 | | | | | | | | | |
| Duplicate | | | | | | | | | |
| pH (Standard Units) | Q17174112D | 7.13SU | 7.11 | | | 2 | 0.3% | 20 | Duplicate RPD Acceptable. |
| 6/20/2017 16:50 | | | | | | | | | |
| Solids, Total Dissolved | Q171771523 | 4400mg/L | 4340 | | | 10 | 1.4% | 20 | Duplicate RPD Acceptable. |
| 6/22/2017 16:15 | | | | | | | | | |
| Solids, Total Dissolved | Q171741140 | 356mg/L | 356 | | | 10 | 0.0% | 20 | Duplicate RPD Acceptable. |
| 6/21/2017 16:30 | | | | | | | | | |
| Laboratory Control Standard | | | | | | | | | |
| - Chloride, IC | Q171862026 | 25.8mg/L | 25 | | | 1 | 103.2% | 80 - 120 | Standard Recovery Acceptable. |
| 6/21/2017 11:03 | | | | | | | 3.1% | 20 | Standard RPD Acceptable. |
| Fluoride, IC | Q171862026 | 2.04mg/L | 2 | | 0.25 | | 102.0% | 80 - 120 | Standard Recovery Acceptable. |
| 6/21/2017 11:03 | | | | | | | 2.0% | 20 | Standard RPD Acceptable. |
| pH (Standard Units) | Q17174112C | 7SU | 7 | | | 2 | 100.0% | 80 - 120 | Standard Recovery Acceptable. |
| 6/20/2017 16:50 | | | | | | | 0.0% | 20 | Standard RPD Acceptable. |
| Sulfate, IC | Q171862026 | 26.1mg/L | 25 | | | 1 | 104.4% | 80 - 120 | Standard Recovery Acceptable. |
| 6/21/2017 11:03 | | | | | | | 4.3% | 20 | Standard RPD Acceptable. |
| Matrix Spike | | | | | | | | | |
| - Chloride, IC | Q171862027 | 61.8mg/L | 64.9 | 25 | | 1 | 87.6% | 80 - 120 | Spike Recovery Acceptable. |
| 6/21/2017 15:30 | | | | | | | 4.9% | 20 | Spike RPD Acceptable. |
| Fluoride, IC | Q171862027 | 2.47mg/L | 2.61 | 2 | 0.25 | | 93.0% | 80 - 120 | Spike Recovery Acceptable. |
| 6/21/2017 15:30 | | | | | | | 5.5% | 20 | Spike RPD Acceptable. |
| Sulfate, IC | Q171862027 | 66.5mg/L | 69.9 | 25 | | 1 | 86.4% | 70 - 130 | Spike Recovery Acceptable. |
| 6/21/2017 15:30 | | | | | | | 5.0% | 20 | Spike RPD Acceptable. |
| Matrix Spike Dup | | | | | | | | | |
| - Chloride, IC | Q17186202A | 62mg/L | 64.9 | 25 | | 1 | 88.4% | 80 - 120 | Spike Recovery Acceptable. |
| 6/21/2017 16:08 | | | | | | | 4.6% | 20 | Spike RPD Acceptable. |
| Fluoride, IC | Q17186202A | 2.47mg/L | 2.61 | 2 | 0.25 | | 93.0% | 80 - 120 | Spike Recovery Acceptable. |
| 6/21/2017 16:08 | | | | | | | 5.5% | 20 | Spike RPD Acceptable. |
| Sulfate, IC | Q17186202A | 66.4mg/L | 69.9 | 25 | | 1 | 86.0% | 70 - 130 | Spike Recovery Acceptable. |
| 6/21/2017 16:08 | | | | | | | 5.1% | 20 | Spike RPD Acceptable. |



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BatchNo: 56751

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Flag and Qualifier Legend

-  *Negative - Result Detected* *MDL = Method Detection Limit* *DF = Dilution Factor*
-  *Caution - Problem Detected* *LOQ = Limit of Quantitation* *j = Analyte detected between MDL and LOQ*
-  *Warning - Null Value* *S = surrogate standard out of limit* *H = sample out of hold time*
-  **MS, MSD, RPD- Failure may occur due to matrix interference, data released per QA plan**

Wednesday, July 26, 2017

B Environmental - LDMS QA Report Summary

Note:

THANK YOU!



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DHL Analytical, Inc.

Date: 03-Jul-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Lab Order: 1706261

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition and Standard Methods.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives except where noted in the following. For Total Metals Analysis, the recovery/RPD of Boron for the Serial Dilution, the Matrix Spike and Matrix Spike Duplicate (1706261-03 SD/MS/MSD) was above the method control limits. These are flagged accordingly in the QC Summary Report. This analyte was within method control limits in the associated LCS/Post Digestion Spike. No further corrective action was taken.

The Dissolved/Total Metals Analysis, the result of Dissolved Molybdenum for Sample BV-21 was slightly higher than the result of Total Molybdenum. The results were within acceptable analytical variation limits. No further corrective action was taken.

DHL Analytical, Inc.

Date: 03-Jul-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (56751)
Lab Order: 1706261

Client Sample ID: Blank
Lab ID: 1706261-01
Alternate ID: S171711827
Collection Date: 06/20/17 03:00 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | <0.00500 | 0.00500 | 0.0100 | | mg/L | 1 | 06/27/17 05:31 PM |
| Dissolved Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/27/17 05:31 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: RO | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 06/29/17 03:15 PM |
| Arsenic | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/29/17 03:15 PM |
| Barium | <0.00300 | 0.00300 | 0.0100 | | mg/L | 1 | 06/29/17 03:15 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/29/17 03:15 PM |
| Boron | <0.0100 | 0.0100 | 0.0300 | | mg/L | 1 | 06/30/17 02:53 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/29/17 03:15 PM |
| Calcium | <0.100 | 0.100 | 0.300 | | mg/L | 1 | 06/29/17 03:15 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/29/17 03:15 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 06/29/17 03:15 PM |
| Lead | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/29/17 03:15 PM |
| Lithium | <0.00500 | 0.00500 | 0.0100 | | mg/L | 1 | 06/29/17 03:15 PM |
| Magnesium | <0.100 | 0.100 | 0.300 | | mg/L | 1 | 06/29/17 03:15 PM |
| Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/29/17 03:15 PM |
| Potassium | <0.100 | 0.100 | 0.300 | | mg/L | 1 | 06/29/17 03:15 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/29/17 03:15 PM |
| Sodium | 0.334 | 0.100 | 0.300 | | mg/L | 1 | 06/29/17 03:15 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 06/29/17 03:15 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: RO | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 06/27/17 11:01 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.29 | 1 | 06/27/17 09:08 AM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.29 | 1 | 06/27/17 09:08 AM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.29 | 1 | 06/27/17 09:08 AM |
| Alkalinity, Total (As CaCO3) | <20.0 | 20.0 | 20.0 | | mg/L @ pH 4.29 | 1 | 06/27/17 09:08 AM |

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 03-Jul-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (56751)
Lab Order: 1706261

Client Sample ID: DUP
Lab ID: 1706261-02
Alternate ID: S17171182A
Collection Date: 06/20/17
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 0.00641 | 0.00500 | 0.0100 | J | mg/L | 1 | 06/27/17 05:33 PM |
| Dissolved Molybdenum | 0.00832 | 0.00200 | 0.00500 | | mg/L | 1 | 06/27/17 05:33 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: RO | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 06/29/17 03:47 PM |
| Arsenic | 0.00637 | 0.00200 | 0.00500 | | mg/L | 1 | 06/29/17 03:47 PM |
| Barium | 0.0512 | 0.00300 | 0.0100 | | mg/L | 1 | 06/29/17 03:47 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/29/17 03:47 PM |
| Boron | 0.572 | 0.0500 | 0.150 | | mg/L | 5 | 06/30/17 02:55 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/29/17 03:47 PM |
| Calcium | 75.5 | 0.500 | 1.50 | | mg/L | 5 | 06/30/17 02:55 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/29/17 03:47 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 06/29/17 03:47 PM |
| Lead | 0.000950 | 0.000300 | 0.00100 | J | mg/L | 1 | 06/29/17 03:47 PM |
| Lithium | 0.00645 | 0.00500 | 0.0100 | J | mg/L | 1 | 06/29/17 03:47 PM |
| Magnesium | 10.1 | 0.100 | 0.300 | | mg/L | 1 | 06/29/17 03:47 PM |
| Molybdenum | 0.00880 | 0.00200 | 0.00500 | | mg/L | 1 | 06/29/17 03:47 PM |
| Potassium | 0.911 | 0.100 | 0.300 | | mg/L | 1 | 06/29/17 03:47 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/29/17 03:47 PM |
| Sodium | 58.3 | 0.500 | 1.50 | | mg/L | 5 | 06/30/17 02:55 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 06/29/17 03:47 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: RO | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 06/27/17 11:04 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 245 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/27/17 09:17 AM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/27/17 09:17 AM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/27/17 09:17 AM |
| Alkalinity, Total (As CaCO3) | 245 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/27/17 09:17 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 03-Jul-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR (56751)
Lab Order: 1706261

Client Sample ID: BV-21
Lab ID: 1706261-03
Alternate ID: S17171182B
Collection Date: 06/20/17 10:45 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 0.00513 | 0.00500 | 0.0100 | J | mg/L | 1 | 06/27/17 04:55 PM |
| Dissolved Molybdenum | 0.00260 | 0.00200 | 0.00500 | J | mg/L | 1 | 06/27/17 04:55 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: RO | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 06/29/17 02:57 PM |
| Arsenic | 0.121 | 0.00200 | 0.00500 | | mg/L | 1 | 06/29/17 02:57 PM |
| Barium | 0.101 | 0.00300 | 0.0100 | | mg/L | 1 | 06/29/17 02:57 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/29/17 02:57 PM |
| Boron | 0.642 | 0.0500 | 0.150 | | mg/L | 5 | 06/30/17 02:50 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/29/17 02:57 PM |
| Calcium | 77.0 | 0.500 | 1.50 | | mg/L | 5 | 06/30/17 02:50 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/29/17 02:57 PM |
| Cobalt | 0.00744 | 0.00300 | 0.00500 | | mg/L | 1 | 06/29/17 02:57 PM |
| Lead | 0.000685 | 0.000300 | 0.00100 | J | mg/L | 1 | 06/29/17 02:57 PM |
| Lithium | 0.00547 | 0.00500 | 0.0100 | J | mg/L | 1 | 06/29/17 02:57 PM |
| Magnesium | 8.32 | 0.100 | 0.300 | | mg/L | 1 | 06/29/17 02:57 PM |
| Molybdenum | 0.00243 | 0.00200 | 0.00500 | J | mg/L | 1 | 06/29/17 02:57 PM |
| Potassium | 0.787 | 0.100 | 0.300 | | mg/L | 1 | 06/29/17 02:57 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/29/17 02:57 PM |
| Sodium | 59.7 | 0.500 | 1.50 | | mg/L | 5 | 06/30/17 02:50 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 06/29/17 02:57 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: RO | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 06/27/17 11:06 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 240 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/27/17 09:26 AM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/27/17 09:26 AM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/27/17 09:26 AM |
| Alkalinity, Total (As CaCO3) | 240 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/27/17 09:26 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 03-Jul-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR (56751)
Lab Order: 1706261

Client Sample ID: BV-22
Lab ID: 1706261-04
Alternate ID: S17171182C
Collection Date: 06/20/17 09:35 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 0.00675 | 0.00500 | 0.0100 | J | mg/L | 1 | 06/27/17 05:35 PM |
| Dissolved Molybdenum | 0.00828 | 0.00200 | 0.00500 | | mg/L | 1 | 06/27/17 05:35 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: RO | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 06/29/17 03:49 PM |
| Arsenic | 0.00630 | 0.00200 | 0.00500 | | mg/L | 1 | 06/29/17 03:49 PM |
| Barium | 0.0503 | 0.00300 | 0.0100 | | mg/L | 1 | 06/29/17 03:49 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/29/17 03:49 PM |
| Boron | 0.621 | 0.0500 | 0.150 | | mg/L | 5 | 06/30/17 02:57 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/29/17 03:49 PM |
| Calcium | 75.3 | 0.500 | 1.50 | | mg/L | 5 | 06/30/17 02:57 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/29/17 03:49 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 06/29/17 03:49 PM |
| Lead | 0.000861 | 0.000300 | 0.00100 | J | mg/L | 1 | 06/29/17 03:49 PM |
| Lithium | 0.00836 | 0.00500 | 0.0100 | J | mg/L | 1 | 06/29/17 03:49 PM |
| Magnesium | 10.3 | 0.100 | 0.300 | | mg/L | 1 | 06/29/17 03:49 PM |
| Molybdenum | 0.00853 | 0.00200 | 0.00500 | | mg/L | 1 | 06/29/17 03:49 PM |
| Potassium | 0.881 | 0.100 | 0.300 | | mg/L | 1 | 06/29/17 03:49 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/29/17 03:49 PM |
| Sodium | 59.0 | 0.500 | 1.50 | | mg/L | 5 | 06/30/17 02:57 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 06/29/17 03:49 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: RO | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 06/27/17 11:22 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 246 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/27/17 09:44 AM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/27/17 09:44 AM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/27/17 09:44 AM |
| Alkalinity, Total (As CaCO3) | 246 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/27/17 09:44 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 03-Jul-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (56751)
Lab Order: 1706261

Client Sample ID: BV-15
Lab ID: 1706261-05
Alternate ID: S17171182D
Collection Date: 06/20/17 11:20 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|------|----------------|----|---------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | | | | Analyst: SP |
| Dissolved Lithium | 0.00615 | 0.00500 | 0.0100 | J | mg/L | 1 | 06/27/17 05:37 PM |
| Dissolved Molybdenum | 0.0189 | 0.00200 | 0.00500 | | mg/L | 1 | 06/27/17 05:37 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | | | | Analyst: RO |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 06/29/17 03:51 PM |
| Arsenic | 0.00901 | 0.00200 | 0.00500 | | mg/L | 1 | 06/29/17 03:51 PM |
| Barium | 0.0499 | 0.00300 | 0.0100 | | mg/L | 1 | 06/29/17 03:51 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/29/17 03:51 PM |
| Boron | 1.23 | 0.100 | 0.300 | | mg/L | 10 | 06/30/17 02:59 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/29/17 03:51 PM |
| Calcium | 64.7 | 1.00 | 3.00 | | mg/L | 10 | 06/30/17 02:59 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/29/17 03:51 PM |
| Cobalt | 0.0119 | 0.00300 | 0.00500 | | mg/L | 1 | 06/29/17 03:51 PM |
| Lead | 0.00457 | 0.000300 | 0.00100 | | mg/L | 1 | 06/29/17 03:51 PM |
| Lithium | 0.00739 | 0.00500 | 0.0100 | J | mg/L | 1 | 06/29/17 03:51 PM |
| Magnesium | 8.61 | 0.100 | 0.300 | | mg/L | 1 | 06/29/17 03:51 PM |
| Molybdenum | 0.0195 | 0.00200 | 0.00500 | | mg/L | 1 | 06/29/17 03:51 PM |
| Potassium | 1.07 | 0.100 | 0.300 | | mg/L | 1 | 06/29/17 03:51 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/29/17 03:51 PM |
| Sodium | 75.6 | 1.00 | 3.00 | | mg/L | 10 | 06/30/17 02:59 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 06/29/17 03:51 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | | | Analyst: RO |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 06/27/17 11:24 AM |
| ALKALINITY | | M2320 B | | | | | Analyst: BTJ |
| Alkalinity, Bicarbonate (As CaCO3) | 198 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/27/17 09:52 AM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/27/17 09:52 AM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/27/17 09:52 AM |
| Alkalinity, Total (As CaCO3) | 198 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/27/17 09:52 AM |

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds TCLP Maximum Concentration Level | B Analyte detected in the associated Method Blank |
| | C Sample Result or QC discussed in the Case Narrative | DF Dilution Factor |
| | E TPH pattern not Gas or Diesel Range Pattern | J Analyte detected between MDL and RL |
| | MDL Method Detection Limit | ND Not Detected at the Method Detection Limit |
| | RL Reporting Limit | S Spike Recovery outside control limits |

DHL Analytical, Inc.

Date: 03-Jul-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR (56751)
Lab Order: 1706261

Client Sample ID: MW-4
Lab ID: 1706261-06
Alternate ID: S17171182E
Collection Date: 06/20/17 08:42 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|-----------|----------------|---------|------|----------------|----|---------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | | | | Analyst: SP |
| Dissolved Lithium | 0.0168 | 0.00500 | 0.0100 | | mg/L | 1 | 06/27/17 05:39 PM |
| Dissolved Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/27/17 05:39 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | | | | Analyst: RO |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 06/29/17 03:53 PM |
| Arsenic | 0.00810 | 0.00200 | 0.00500 | | mg/L | 1 | 06/29/17 03:53 PM |
| Barium | 0.0596 | 0.00300 | 0.0100 | | mg/L | 1 | 06/29/17 03:53 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/29/17 03:53 PM |
| Boron | 0.254 | 0.0100 | 0.0300 | | mg/L | 1 | 06/30/17 03:00 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/29/17 03:53 PM |
| Calcium | 99.3 | 1.00 | 3.00 | | mg/L | 10 | 06/30/17 06:18 PM |
| Chromium | 0.00877 | 0.00200 | 0.00500 | | mg/L | 1 | 06/29/17 03:53 PM |
| Cobalt | 0.00843 | 0.00300 | 0.00500 | | mg/L | 1 | 06/29/17 03:53 PM |
| Lead | 0.000714 | 0.000300 | 0.00100 | J | mg/L | 1 | 06/29/17 03:53 PM |
| Lithium | 0.0195 | 0.00500 | 0.0100 | | mg/L | 1 | 06/29/17 03:53 PM |
| Magnesium | 17.8 | 0.100 | 0.300 | | mg/L | 1 | 06/29/17 03:53 PM |
| Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/29/17 03:53 PM |
| Potassium | 1.33 | 0.100 | 0.300 | | mg/L | 1 | 06/29/17 03:53 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/29/17 03:53 PM |
| Sodium | 107 | 1.00 | 3.00 | | mg/L | 10 | 06/30/17 06:18 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 06/29/17 03:53 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | | | Analyst: RO |
| Mercury | <0.000800 | 0.000800 | 0.00200 | | mg/L | 1 | 06/27/17 11:26 AM |
| ALKALINITY | | M2320 B | | | | | Analyst: BTJ |
| Alkalinity, Bicarbonate (As CaCO3) | 246 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/27/17 10:01 AM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/27/17 10:01 AM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/27/17 10:01 AM |
| Alkalinity, Total (As CaCO3) | 246 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/27/17 10:01 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern J Analyte detected between MDL and RL
 MDL Method Detection Limit ND Not Detected at the Method Detection Limit
 RL Reporting Limit S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 03-Jul-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (56751)
Lab Order: 1706261

Client Sample ID: MW-8
Lab ID: 1706261-07
Alternate ID: S17171182F
Collection Date: 06/20/17 10:11 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|-----------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 0.0108 | 0.00500 | 0.0100 | | mg/L | 1 | 06/27/17 05:41 PM |
| Dissolved Molybdenum | 0.0163 | 0.00200 | 0.00500 | | mg/L | 1 | 06/27/17 05:41 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: RO | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 06/29/17 03:54 PM |
| Arsenic | 0.00885 | 0.00200 | 0.00500 | | mg/L | 1 | 06/29/17 03:54 PM |
| Barium | 0.0669 | 0.00300 | 0.0100 | | mg/L | 1 | 06/29/17 03:54 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/29/17 03:54 PM |
| Boron | 1.24 | 0.100 | 0.300 | | mg/L | 10 | 06/30/17 03:02 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/29/17 03:54 PM |
| Calcium | 86.5 | 1.00 | 3.00 | | mg/L | 10 | 06/30/17 03:02 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/29/17 03:54 PM |
| Cobalt | 0.0297 | 0.00300 | 0.00500 | | mg/L | 1 | 06/29/17 03:54 PM |
| Lead | 0.000422 | 0.000300 | 0.00100 | J | mg/L | 1 | 06/29/17 03:54 PM |
| Lithium | 0.0121 | 0.00500 | 0.0100 | | mg/L | 1 | 06/29/17 03:54 PM |
| Magnesium | 12.8 | 0.100 | 0.300 | | mg/L | 1 | 06/29/17 03:54 PM |
| Molybdenum | 0.0171 | 0.00200 | 0.00500 | | mg/L | 1 | 06/29/17 03:54 PM |
| Potassium | 0.945 | 0.100 | 0.300 | | mg/L | 1 | 06/29/17 03:54 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/29/17 03:54 PM |
| Sodium | 86.8 | 1.00 | 3.00 | | mg/L | 10 | 06/30/17 03:02 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 06/29/17 03:54 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: RO | | | |
| Mercury | <0.000800 | 0.000800 | 0.000200 | | mg/L | 1 | 06/27/17 11:29 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 262 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/27/17 10:11 AM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/27/17 10:11 AM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/27/17 10:11 AM |
| Alkalinity, Total (As CaCO3) | 262 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/27/17 10:11 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits Page 7 of 11

DHL Analytical, Inc.

Date: 03-Jul-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (56751)
Lab Order: 1706261

Client Sample ID: BV-1
Lab ID: 1706261-08
Alternate ID: S17171182G
Collection Date: 06/20/17 02:15 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 0.0149 | 0.00500 | 0.0100 | | mg/L | 1 | 06/27/17 05:43 PM |
| Dissolved Molybdenum | 0.00472 | 0.00200 | 0.00500 | J | mg/L | 1 | 06/27/17 05:43 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: RO | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 06/29/17 03:56 PM |
| Arsenic | 0.0101 | 0.00200 | 0.00500 | | mg/L | 1 | 06/29/17 03:56 PM |
| Barium | 0.0495 | 0.00300 | 0.0100 | | mg/L | 1 | 06/29/17 03:56 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/29/17 03:56 PM |
| Boron | 1.29 | 0.100 | 0.300 | | mg/L | 10 | 06/30/17 03:04 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/29/17 03:56 PM |
| Calcium | 73.1 | 1.00 | 3.00 | | mg/L | 10 | 06/30/17 03:04 PM |
| Chromium | 0.00946 | 0.00200 | 0.00500 | | mg/L | 1 | 06/29/17 03:56 PM |
| Cobalt | 0.395 | 0.00300 | 0.00500 | | mg/L | 1 | 06/29/17 03:56 PM |
| Lead | 0.00397 | 0.000300 | 0.00100 | | mg/L | 1 | 06/29/17 03:56 PM |
| Lithium | 0.0168 | 0.00500 | 0.0100 | | mg/L | 1 | 06/29/17 03:56 PM |
| Magnesium | 11.4 | 0.100 | 0.300 | | mg/L | 1 | 06/29/17 03:56 PM |
| Molybdenum | 0.00507 | 0.00200 | 0.00500 | | mg/L | 1 | 06/29/17 03:56 PM |
| Potassium | 0.522 | 0.100 | 0.300 | | mg/L | 1 | 06/29/17 03:56 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/29/17 03:56 PM |
| Sodium | 256 | 5.00 | 15.0 | | mg/L | 50 | 06/30/17 06:20 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 06/29/17 03:56 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: RO | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 06/27/17 11:31 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 399 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 06/27/17 10:25 AM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 06/27/17 10:25 AM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 06/27/17 10:25 AM |
| Alkalinity, Total (As CaCO3) | 399 | 20.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 06/27/17 10:25 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern
 J Analyte detected between MDL and RL
 MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 03-Jul-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (56751)
Lab Order: 1706261

Client Sample ID: BV-5
Lab ID: 1706261-09
Alternate ID: S17171182H
Collection Date: 06/20/17 02:43 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 0.0172 | 0.00500 | 0.0100 | | mg/L | 1 | 06/27/17 05:45 PM |
| Dissolved Molybdenum | 0.0106 | 0.00200 | 0.00500 | | mg/L | 1 | 06/27/17 05:45 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: RO | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 06/29/17 03:58 PM |
| Arsenic | 0.00841 | 0.00200 | 0.00500 | | mg/L | 1 | 06/29/17 03:58 PM |
| Barium | 0.0401 | 0.00300 | 0.0100 | | mg/L | 1 | 06/29/17 03:58 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/29/17 03:58 PM |
| Boron | 1.02 | 0.100 | 0.300 | | mg/L | 10 | 06/30/17 03:06 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/29/17 03:58 PM |
| Calcium | 90.7 | 1.00 | 3.00 | | mg/L | 10 | 06/30/17 03:06 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/29/17 03:58 PM |
| Cobalt | 0.0499 | 0.00300 | 0.00500 | | mg/L | 1 | 06/29/17 03:58 PM |
| Lead | 0.000832 | 0.000300 | 0.00100 | J | mg/L | 1 | 06/29/17 03:58 PM |
| Lithium | 0.0208 | 0.00500 | 0.0100 | | mg/L | 1 | 06/29/17 03:58 PM |
| Magnesium | 16.2 | 0.100 | 0.300 | | mg/L | 1 | 06/29/17 03:58 PM |
| Molybdenum | 0.0114 | 0.00200 | 0.00500 | | mg/L | 1 | 06/29/17 03:58 PM |
| Potassium | 0.179 | 0.100 | 0.300 | J | mg/L | 1 | 06/29/17 03:58 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/29/17 03:58 PM |
| Sodium | 173 | 1.00 | 3.00 | | mg/L | 10 | 06/30/17 03:06 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 06/29/17 03:58 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: RO | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 06/27/17 11:33 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 354 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/27/17 10:39 AM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/27/17 10:39 AM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/27/17 10:39 AM |
| Alkalinity, Total (As CaCO3) | 354 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/27/17 10:39 AM |

Qualifiers:

| | | | |
|-----|---|----|---|
| * | Value exceeds TCLP Maximum Concentration Level | B | Analyte detected in the associated Method Blank |
| C | Sample Result or QC discussed in the Case Narrative | DF | Dilution Factor |
| E | TPH pattern not Gas or Diesel Range Pattern | J | Analyte detected between MDL and RL |
| MDL | Method Detection Limit | ND | Not Detected at the Method Detection Limit |
| RL | Reporting Limit | S | Spike Recovery outside control limits |

Page 9 of 11

DHL Analytical, Inc.

Date: 03-Jul-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (56751)
Lab Order: 1706261

Client Sample ID: BV-10
Lab ID: 1706261-10
Alternate ID: S17171182I
Collection Date: 06/20/17 01:44 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 0.0102 | 0.00500 | 0.0100 | | mg/L | 1 | 06/27/17 05:47 PM |
| Dissolved Molybdenum | 0.00825 | 0.00200 | 0.00500 | | mg/L | 1 | 06/27/17 05:47 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: RO | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 06/29/17 04:00 PM |
| Arsenic | 0.0130 | 0.00200 | 0.00500 | | mg/L | 1 | 06/29/17 04:00 PM |
| Barium | 0.0520 | 0.00300 | 0.0100 | | mg/L | 1 | 06/29/17 04:00 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/29/17 04:00 PM |
| Boron | 1.07 | 0.100 | 0.300 | | mg/L | 10 | 06/30/17 03:08 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/29/17 04:00 PM |
| Calcium | 44.0 | 1.00 | 3.00 | | mg/L | 10 | 06/30/17 03:08 PM |
| Chromium | 0.00398 | 0.00200 | 0.00500 | J | mg/L | 1 | 06/29/17 04:00 PM |
| Cobalt | 0.215 | 0.00300 | 0.00500 | | mg/L | 1 | 06/29/17 04:00 PM |
| Lead | 0.00526 | 0.000300 | 0.00100 | | mg/L | 1 | 06/29/17 04:00 PM |
| Lithium | 0.0108 | 0.00500 | 0.0100 | | mg/L | 1 | 06/29/17 04:00 PM |
| Magnesium | 7.03 | 0.100 | 0.300 | | mg/L | 1 | 06/29/17 04:00 PM |
| Molybdenum | 0.00837 | 0.00200 | 0.00500 | | mg/L | 1 | 06/29/17 04:00 PM |
| Potassium | 0.697 | 0.100 | 0.300 | | mg/L | 1 | 06/29/17 04:00 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/29/17 04:00 PM |
| Sodium | 171 | 1.00 | 3.00 | | mg/L | 10 | 06/30/17 03:08 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 06/29/17 04:00 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: RO | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 06/27/17 11:36 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 292 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 06/27/17 10:54 AM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 06/27/17 10:54 AM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 06/27/17 10:54 AM |
| Alkalinity, Total (As CaCO3) | 292 | 20.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 06/27/17 10:54 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits Page 10 of 11

DHL Analytical, Inc.

Date: 03-Jul-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (56751)
Lab Order: 1706261

Client Sample ID: BV-19
Lab ID: 1706261-11
Alternate ID: S17171182J
Collection Date: 06/20/17 01:18 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 0.0130 | 0.00500 | 0.0100 | | mg/L | 1 | 06/27/17 05:49 PM |
| Dissolved Molybdenum | 0.00484 | 0.00200 | 0.00500 | J | mg/L | 1 | 06/27/17 05:49 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: RO | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 06/29/17 04:01 PM |
| Arsenic | 0.00822 | 0.00200 | 0.00500 | | mg/L | 1 | 06/29/17 04:01 PM |
| Barium | 0.0954 | 0.00300 | 0.0100 | | mg/L | 1 | 06/29/17 04:01 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/29/17 04:01 PM |
| Boron | 0.812 | 0.0500 | 0.150 | | mg/L | 5 | 06/30/17 03:38 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/29/17 04:01 PM |
| Calcium | 115 | 1.00 | 3.00 | | mg/L | 10 | 06/30/17 03:38 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/29/17 04:01 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 06/29/17 04:01 PM |
| Lead | 0.000429 | 0.000300 | 0.00100 | J | mg/L | 1 | 06/29/17 04:01 PM |
| Lithium | 0.0161 | 0.00500 | 0.0100 | | mg/L | 1 | 06/29/17 04:01 PM |
| Magnesium | 24.1 | 0.100 | 0.300 | | mg/L | 1 | 06/29/17 04:01 PM |
| Molybdenum | 0.00508 | 0.00200 | 0.00500 | | mg/L | 1 | 06/29/17 04:01 PM |
| Potassium | 0.632 | 0.100 | 0.300 | | mg/L | 1 | 06/29/17 04:01 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/29/17 04:01 PM |
| Sodium | 89.3 | 1.00 | 3.00 | | mg/L | 10 | 06/30/17 03:38 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 06/29/17 04:01 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: RO | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 06/27/17 11:38 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 325 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/27/17 11:06 AM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/27/17 11:06 AM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/27/17 11:06 AM |
| Alkalinity, Total (As CaCO3) | 325 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/27/17 11:06 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern J Analyte detected between MDL and RL
 MDL Method Detection Limit ND Not Detected at the Method Detection Limit
 RL Reporting Limit S Spike Recovery outside control limits Page 11 of 11

DHL Analytical, Inc.

Date: 03-Jul-17

CLIENT: B-Environmental
Work Order: 1706261
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_170627B

The QC data in batch 81116 applies to the following samples: 1706261-01A, 1706261-02A, 1706261-03A, 1706261-04A, 1706261-05A, 1706261-06A, 1706261-07A, 1706261-08A, 1706261-09A, 1706261-10A, 1706261-11A

| | | | |
|---------------------------|---------------------------------|---|-----------------------------|
| Sample ID MB-81116 | Batch ID: 81116 | TestNo: SW7470A | Units: mg/L |
| SampType: MBLK | Run ID: CETAC2_HG_170627 | Analysis Date: 6/27/2017 10:39:00 AM | Prep Date: 6/26/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|------------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | <0.0000800 | 0.000200 | | | | | | | | |

| | | | |
|----------------------------|---------------------------------|---|-----------------------------|
| Sample ID LCS-81116 | Batch ID: 81116 | TestNo: SW7470A | Units: mg/L |
| SampType: LCS | Run ID: CETAC2_HG_170627 | Analysis Date: 6/27/2017 10:41:16 AM | Prep Date: 6/26/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00207 | 0.000200 | 0.00200 | 0 | 104 | 85 | 115 | | | |

| | | | |
|-----------------------------|---------------------------------|---|-----------------------------|
| Sample ID LCSD-81116 | Batch ID: 81116 | TestNo: SW7470A | Units: mg/L |
| SampType: LCSD | Run ID: CETAC2_HG_170627 | Analysis Date: 6/27/2017 10:43:32 AM | Prep Date: 6/26/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|-------|----------|------|
| Mercury | 0.00206 | 0.000200 | 0.00200 | 0 | 103 | 85 | 115 | 0.484 | 15 | |

| | | | |
|---------------------------------|---------------------------------|---|-----------------------------|
| Sample ID 1706261-03A SD | Batch ID: 81116 | TestNo: SW7470A | Units: mg/L |
| SampType: SD | Run ID: CETAC2_HG_170627 | Analysis Date: 6/27/2017 11:08:33 AM | Prep Date: 6/26/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|-----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | <0.000400 | 0.00100 | 0 | 0 | | | | 0 | 10 | |

| | | | |
|----------------------------------|---------------------------------|---|-----------------------------|
| Sample ID 1706261-03A PDS | Batch ID: 81116 | TestNo: SW7470A | Units: mg/L |
| SampType: PDS | Run ID: CETAC2_HG_170627 | Analysis Date: 6/27/2017 11:10:50 AM | Prep Date: 6/26/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00244 | 0.000200 | 0.00250 | 0 | 97.6 | 85 | 115 | | | |

| | | | |
|---------------------------------|---------------------------------|---|-----------------------------|
| Sample ID 1706261-03A MS | Batch ID: 81116 | TestNo: SW7470A | Units: mg/L |
| SampType: MS | Run ID: CETAC2_HG_170627 | Analysis Date: 6/27/2017 11:13:07 AM | Prep Date: 6/26/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00198 | 0.000200 | 0.00200 | 0 | 99.0 | 80 | 120 | | | |

| | | | |
|----------------------------------|---------------------------------|---|-----------------------------|
| Sample ID 1706261-03A MSD | Batch ID: 81116 | TestNo: SW7470A | Units: mg/L |
| SampType: MSD | Run ID: CETAC2_HG_170627 | Analysis Date: 6/27/2017 11:15:24 AM | Prep Date: 6/26/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00193 | 0.000200 | 0.00200 | 0 | 96.5 | 80 | 120 | 2.56 | 15 | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706261
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170627B

The QC data in batch 81080 applies to the following samples: 1706261-01B, 1706261-02B, 1706261-03B, 1706261-04B, 1706261-05B, 1706261-06B, 1706261-07B, 1706261-08B, 1706261-09B, 1706261-10B, 1706261-11B

Sample ID **MB-81080** Batch ID: **81080** TestNo: **SW6020A** Units: **mg/L**
 SampType: **MBLK** Run ID: **ICP-MS4_170627B** Analysis Date: **6/27/2017 4:47:00 PM** Prep Date: **6/23/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Lithium | <0.00500 | 0.0100 | | | | | | | | |
| Molybdenum | <0.00200 | 0.00500 | | | | | | | | |

Sample ID **LCS-81080** Batch ID: **81080** TestNo: **SW6020A** Units: **mg/L**
 SampType: **LCS** Run ID: **ICP-MS4_170627B** Analysis Date: **6/27/2017 4:49:00 PM** Prep Date: **6/23/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Lithium | 0.198 | 0.0100 | 0.200 | 0 | 98.9 | 80 | 120 | | | |
| Molybdenum | 0.194 | 0.00500 | 0.200 | 0 | 96.8 | 80 | 120 | | | |

Sample ID **LCSD-81080** Batch ID: **81080** TestNo: **SW6020A** Units: **mg/L**
 SampType: **LCSD** Run ID: **ICP-MS4_170627B** Analysis Date: **6/27/2017 4:51:00 PM** Prep Date: **6/23/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Lithium | 0.200 | 0.0100 | 0.200 | 0 | 100 | 80 | 120 | 1.31 | 15 | |
| Molybdenum | 0.198 | 0.00500 | 0.200 | 0 | 99.1 | 80 | 120 | 2.34 | 15 | |

Sample ID **1706261-03B SD** Batch ID: **81080** TestNo: **SW6020A** Units: **mg/L**
 SampType: **SD** Run ID: **ICP-MS4_170627B** Analysis Date: **6/27/2017 4:57:00 PM** Prep Date: **6/23/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|---------|--------|-----------|---------|------|----------|-----------|------|----------|------|
| Lithium | <0.0250 | 0.0500 | 0 | 0.00513 | | | | 0 | 10 | |
| Molybdenum | <0.0100 | 0.0250 | 0 | 0.00260 | | | | 0 | 10 | |

Sample ID **1706261-03B PDS** Batch ID: **81080** TestNo: **SW6020A** Units: **mg/L**
 SampType: **PDS** Run ID: **ICP-MS4_170627B** Analysis Date: **6/27/2017 5:11:00 PM** Prep Date: **6/23/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Lithium | 0.199 | 0.0100 | 0.200 | 0.00513 | 96.9 | 80 | 120 | | | |
| Molybdenum | 0.196 | 0.00500 | 0.200 | 0.00260 | 96.6 | 80 | 120 | | | |

Sample ID **1706261-03B MS** Batch ID: **81080** TestNo: **SW6020A** Units: **mg/L**
 SampType: **MS** Run ID: **ICP-MS4_170627B** Analysis Date: **6/27/2017 5:13:00 PM** Prep Date: **6/23/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Dissolved Lithium | 0.198 | 0.0100 | 0.200 | 0.00513 | 96.3 | 80 | 120 | | | |
| Dissolved Molybdenum | 0.199 | 0.00500 | 0.200 | 0.00260 | 98.4 | 80 | 120 | | | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706261
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170627B

| Sample ID 1706261-03B MSD | Batch ID: 81080 | TestNo: SW6020A | Units: mg/L | | | | | | | |
|----------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: MSD | Run ID: ICP-MS4_170627B | Analysis Date: 6/27/2017 5:15:00 PM | Prep Date: 6/23/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Dissolved Lithium | 0.195 | 0.0100 | 0.200 | 0.00513 | 95.2 | 80 | 120 | 1.16 | 15 | |
| Dissolved Molybdenum | 0.197 | 0.00500 | 0.200 | 0.00260 | 97.1 | 80 | 120 | 1.35 | 15 | |

| | | |
|--------------------|--|---|
| Qualifiers: | B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified |
|--------------------|--|---|

CLIENT: B-Environmental
Work Order: 1706261
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170629E

The QC data in batch 81112 applies to the following samples: 1706261-01A, 1706261-02A, 1706261-03A, 1706261-04A, 1706261-05A, 1706261-06A, 1706261-07A, 1706261-08A, 1706261-09A, 1706261-10A, 1706261-11A

| | | | | | | | |
|-----------|-----------------|-----------|------------------------|----------------|-----------------------------|------------|------------------|
| Sample ID | MB-81112 | Batch ID: | 81112 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | MBLK | Run ID: | ICP-MS5_170629E | Analysis Date: | 6/29/2017 2:50:00 PM | Prep Date: | 6/26/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|-----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | <0.000800 | 0.00250 | | | | | | | | |
| Arsenic | <0.00200 | 0.00500 | | | | | | | | |
| Barium | <0.00300 | 0.0100 | | | | | | | | |
| Beryllium | <0.000300 | 0.00100 | | | | | | | | |
| Cadmium | <0.000300 | 0.00100 | | | | | | | | |
| Calcium | <0.100 | 0.300 | | | | | | | | |
| Chromium | <0.00200 | 0.00500 | | | | | | | | |
| Cobalt | <0.00300 | 0.00500 | | | | | | | | |
| Lead | <0.000300 | 0.00100 | | | | | | | | |
| Lithium | <0.00500 | 0.0100 | | | | | | | | |
| Magnesium | <0.100 | 0.300 | | | | | | | | |
| Molybdenum | <0.00200 | 0.00500 | | | | | | | | |
| Potassium | <0.100 | 0.300 | | | | | | | | |
| Selenium | <0.00200 | 0.00500 | | | | | | | | |
| Sodium | <0.100 | 0.300 | | | | | | | | |
| Thallium | <0.000500 | 0.00150 | | | | | | | | |

| | | | | | | | |
|-----------|------------------|-----------|------------------------|----------------|-----------------------------|------------|------------------|
| Sample ID | LCS-81112 | Batch ID: | 81112 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | LCS | Run ID: | ICP-MS5_170629E | Analysis Date: | 6/29/2017 2:51:00 PM | Prep Date: | 6/26/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.197 | 0.00250 | 0.200 | 0 | 98.3 | 80 | 120 | | | |
| Arsenic | 0.198 | 0.00500 | 0.200 | 0 | 99.0 | 80 | 120 | | | |
| Barium | 0.199 | 0.0100 | 0.200 | 0 | 99.6 | 80 | 120 | | | |
| Beryllium | 0.204 | 0.00100 | 0.200 | 0 | 102 | 80 | 120 | | | |
| Cadmium | 0.198 | 0.00100 | 0.200 | 0 | 99.2 | 80 | 120 | | | |
| Calcium | 4.99 | 0.300 | 5.00 | 0 | 99.8 | 80 | 120 | | | |
| Chromium | 0.200 | 0.00500 | 0.200 | 0 | 99.9 | 80 | 120 | | | |
| Cobalt | 0.204 | 0.00500 | 0.200 | 0 | 102 | 80 | 120 | | | |
| Lead | 0.197 | 0.00100 | 0.200 | 0 | 98.5 | 80 | 120 | | | |
| Lithium | 0.213 | 0.0100 | 0.200 | 0 | 106 | 80 | 120 | | | |
| Magnesium | 5.11 | 0.300 | 5.00 | 0 | 102 | 80 | 120 | | | |
| Molybdenum | 0.195 | 0.00500 | 0.200 | 0 | 97.3 | 80 | 120 | | | |
| Potassium | 4.90 | 0.300 | 5.00 | 0 | 98.1 | 80 | 120 | | | |
| Selenium | 0.196 | 0.00500 | 0.200 | 0 | 97.9 | 80 | 120 | | | |
| Sodium | 5.09 | 0.300 | 5.00 | 0 | 102 | 80 | 120 | | | |
| Thallium | 0.198 | 0.00150 | 0.200 | 0 | 99.0 | 80 | 120 | | | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental

Work Order: 1706261

Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170629E

| | | | | | | | |
|-----------|------------|-----------|-----------------|----------------|----------------------|------------|-----------|
| Sample ID | LCSD-81112 | Batch ID: | 81112 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | LCSD | Run ID: | ICP-MS5_170629E | Analysis Date: | 6/29/2017 2:53:00 PM | Prep Date: | 6/26/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | 0.202 | 0.00250 | 0.200 | 0 | 101 | 80 | 120 | 2.92 | 15 | |
| Arsenic | 0.200 | 0.00500 | 0.200 | 0 | 99.8 | 80 | 120 | 0.743 | 15 | |
| Barium | 0.204 | 0.0100 | 0.200 | 0 | 102 | 80 | 120 | 2.40 | 15 | |
| Beryllium | 0.205 | 0.00100 | 0.200 | 0 | 103 | 80 | 120 | 0.656 | 15 | |
| Cadmium | 0.205 | 0.00100 | 0.200 | 0 | 102 | 80 | 120 | 3.12 | 15 | |
| Calcium | 4.99 | 0.300 | 5.00 | 0 | 99.8 | 80 | 120 | 0.048 | 15 | |
| Chromium | 0.201 | 0.00500 | 0.200 | 0 | 100 | 80 | 120 | 0.406 | 15 | |
| Cobalt | 0.204 | 0.00500 | 0.200 | 0 | 102 | 80 | 120 | 0.019 | 15 | |
| Lead | 0.197 | 0.00100 | 0.200 | 0 | 98.7 | 80 | 120 | 0.239 | 15 | |
| Lithium | 0.213 | 0.0100 | 0.200 | 0 | 106 | 80 | 120 | 0.080 | 15 | |
| Magnesium | 5.03 | 0.300 | 5.00 | 0 | 101 | 80 | 120 | 1.50 | 15 | |
| Molybdenum | 0.201 | 0.00500 | 0.200 | 0 | 101 | 80 | 120 | 3.27 | 15 | |
| Potassium | 4.86 | 0.300 | 5.00 | 0 | 97.2 | 80 | 120 | 0.954 | 15 | |
| Selenium | 0.199 | 0.00500 | 0.200 | 0 | 99.3 | 80 | 120 | 1.44 | 15 | |
| Sodium | 5.04 | 0.300 | 5.00 | 0 | 101 | 80 | 120 | 0.985 | 15 | |
| Thallium | 0.197 | 0.00150 | 0.200 | 0 | 98.6 | 80 | 120 | 0.453 | 15 | |

| | | | | | | | |
|-----------|----------------|-----------|-----------------|----------------|----------------------|------------|-----------|
| Sample ID | 1706261-03A SD | Batch ID: | 81112 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | SD | Run ID: | ICP-MS5_170629E | Analysis Date: | 6/29/2017 2:59:00 PM | Prep Date: | 6/26/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|----------|---------|-----------|----------|------|----------|-----------|-------|----------|------|
| Antimony | <0.00400 | 0.0125 | 0 | 0 | | | | 0 | 10 | |
| Arsenic | 0.120 | 0.0250 | 0 | 0.121 | | | | 0.934 | 10 | |
| Barium | 0.0996 | 0.0500 | 0 | 0.101 | | | | 1.77 | 10 | |
| Beryllium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Cadmium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Chromium | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Cobalt | <0.0150 | 0.0250 | 0 | 0.00744 | | | | 0 | 10 | |
| Lead | <0.00150 | 0.00500 | 0 | 0.000685 | | | | 0 | 10 | |
| Lithium | <0.0250 | 0.0500 | 0 | 0.00547 | | | | 0 | 10 | |
| Magnesium | 8.12 | 1.50 | 0 | 8.32 | | | | 2.41 | 10 | |
| Molybdenum | <0.0100 | 0.0250 | 0 | 0.00243 | | | | 0 | 10 | |
| Potassium | 0.709 | 1.50 | 0 | 0.787 | | | | 10.4 | 10 | |
| Selenium | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Thallium | <0.00250 | 0.00750 | 0 | 0 | | | | 0 | 10 | |

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|
| Sample ID | 1706261-03A PDS | Batch ID: | 81112 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | PDS | Run ID: | ICP-MS5_170629E | Analysis Date: | 6/29/2017 3:16:00 PM | Prep Date: | 6/26/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.207 | 0.00250 | 0.200 | 0 | 103 | 80 | 120 | | | |

- | | |
|--|---|
| <p>Qualifiers:</p> <ul style="list-style-type: none"> B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | <ul style="list-style-type: none"> DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified |
|--|---|

CLIENT: B-Environmental
Work Order: 1706261
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170629E

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|
| Sample ID | 1706261-03A PDS | Batch ID: | 81112 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | PDS | Run ID: | ICP-MS5_170629E | Analysis Date: | 6/29/2017 3:16:00 PM | Prep Date: | 6/26/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|----------|------|----------|-----------|------|----------|------|
| Arsenic | 0.309 | 0.00500 | 0.200 | 0.121 | 93.8 | 80 | 120 | | | |
| Barium | 0.307 | 0.0100 | 0.200 | 0.101 | 103 | 80 | 120 | | | |
| Beryllium | 0.213 | 0.00100 | 0.200 | 0 | 107 | 80 | 120 | | | |
| Cadmium | 0.209 | 0.00100 | 0.200 | 0 | 105 | 80 | 120 | | | |
| Chromium | 0.209 | 0.00500 | 0.200 | 0 | 105 | 80 | 120 | | | |
| Cobalt | 0.209 | 0.00500 | 0.200 | 0.00744 | 101 | 80 | 120 | | | |
| Lead | 0.197 | 0.00100 | 0.200 | 0.000685 | 98.2 | 80 | 120 | | | |
| Lithium | 0.225 | 0.0100 | 0.200 | 0.00547 | 110 | 80 | 120 | | | |
| Magnesium | 12.7 | 0.300 | 5.00 | 8.32 | 87.1 | 80 | 120 | | | |
| Molybdenum | 0.204 | 0.00500 | 0.200 | 0.00243 | 101 | 80 | 120 | | | |
| Potassium | 5.41 | 0.300 | 5.00 | 0.787 | 92.4 | 80 | 120 | | | |
| Selenium | 0.189 | 0.00500 | 0.200 | 0 | 94.3 | 80 | 120 | | | |
| Thallium | 0.197 | 0.00150 | 0.200 | 0 | 98.5 | 80 | 120 | | | |

| | | | | | | | |
|-----------|----------------|-----------|-----------------|----------------|----------------------|------------|-----------|
| Sample ID | 1706261-03A MS | Batch ID: | 81112 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | MS | Run ID: | ICP-MS5_170629E | Analysis Date: | 6/29/2017 3:18:00 PM | Prep Date: | 6/26/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|----------|------|----------|-----------|------|----------|------|
| Antimony | 0.206 | 0.00250 | 0.200 | 0 | 103 | 80 | 120 | | | |
| Arsenic | 0.322 | 0.00500 | 0.200 | 0.121 | 101 | 80 | 120 | | | |
| Barium | 0.313 | 0.0100 | 0.200 | 0.101 | 106 | 80 | 120 | | | |
| Beryllium | 0.213 | 0.00100 | 0.200 | 0 | 106 | 80 | 120 | | | |
| Cadmium | 0.207 | 0.00100 | 0.200 | 0 | 103 | 80 | 120 | | | |
| Calcium | 76.9 | 0.300 | 5.00 | 71.4 | 109 | 80 | 120 | | | |
| Chromium | 0.203 | 0.00500 | 0.200 | 0 | 102 | 80 | 120 | | | |
| Cobalt | 0.208 | 0.00500 | 0.200 | 0.00744 | 100 | 80 | 120 | | | |
| Lead | 0.198 | 0.00100 | 0.200 | 0.000685 | 98.6 | 80 | 120 | | | |
| Lithium | 0.227 | 0.0100 | 0.200 | 0.00547 | 111 | 80 | 120 | | | |
| Magnesium | 13.3 | 0.300 | 5.00 | 8.32 | 99.8 | 80 | 120 | | | |
| Molybdenum | 0.210 | 0.00500 | 0.200 | 0.00243 | 104 | 80 | 120 | | | |
| Potassium | 5.59 | 0.300 | 5.00 | 0.787 | 96.0 | 80 | 120 | | | |
| Selenium | 0.192 | 0.00500 | 0.200 | 0 | 96.1 | 80 | 120 | | | |
| Sodium | 64.1 | 0.300 | 5.00 | 58.6 | 110 | 80 | 120 | | | |
| Thallium | 0.197 | 0.00150 | 0.200 | 0 | 98.7 | 80 | 120 | | | |

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|
| Sample ID | 1706261-03A MSD | Batch ID: | 81112 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | MSD | Run ID: | ICP-MS5_170629E | Analysis Date: | 6/29/2017 3:20:00 PM | Prep Date: | 6/26/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|---------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | 0.208 | 0.00250 | 0.200 | 0 | 104 | 80 | 120 | 0.932 | 15 | |
| Arsenic | 0.321 | 0.00500 | 0.200 | 0.121 | 100 | 80 | 120 | 0.311 | 15 | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706261
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170629E

| | | | |
|----------------------------------|--------------------------------|--|-----------------------------|
| Sample ID 1706261-03A MSD | Batch ID: 81112 | TestNo: SW6020A | Units: mg/L |
| SampType: MSD | Run ID: ICP-MS5_170629E | Analysis Date: 6/29/2017 3:20:00 PM | Prep Date: 6/26/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|----------|------|----------|-----------|-------|----------|------|
| Barium | 0.316 | 0.0100 | 0.200 | 0.101 | 107 | 80 | 120 | 0.817 | 15 | |
| Beryllium | 0.216 | 0.00100 | 0.200 | 0 | 108 | 80 | 120 | 1.49 | 15 | |
| Cadmium | 0.209 | 0.00100 | 0.200 | 0 | 104 | 80 | 120 | 0.947 | 15 | |
| Calcium | 76.6 | 0.300 | 5.00 | 71.4 | 104 | 80 | 120 | 0.368 | 15 | |
| Chromium | 0.211 | 0.00500 | 0.200 | 0 | 105 | 80 | 120 | 3.62 | 15 | |
| Cobalt | 0.209 | 0.00500 | 0.200 | 0.00744 | 101 | 80 | 120 | 0.346 | 15 | |
| Lead | 0.197 | 0.00100 | 0.200 | 0.000685 | 98.1 | 80 | 120 | 0.502 | 15 | |
| Lithium | 0.236 | 0.0100 | 0.200 | 0.00547 | 115 | 80 | 120 | 3.88 | 15 | |
| Magnesium | 13.4 | 0.300 | 5.00 | 8.32 | 102 | 80 | 120 | 0.800 | 15 | |
| Molybdenum | 0.210 | 0.00500 | 0.200 | 0.00243 | 104 | 80 | 120 | 0.245 | 15 | |
| Potassium | 5.60 | 0.300 | 5.00 | 0.787 | 96.3 | 80 | 120 | 0.307 | 15 | |
| Selenium | 0.192 | 0.00500 | 0.200 | 0 | 96.1 | 80 | 120 | 0.097 | 15 | |
| Sodium | 64.3 | 0.300 | 5.00 | 58.6 | 115 | 80 | 120 | 0.373 | 15 | |
| Thallium | 0.197 | 0.00150 | 0.200 | 0 | 98.3 | 80 | 120 | 0.425 | 15 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706261
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170630B

The QC data in batch 81112 applies to the following samples: 1706261-01A, 1706261-02A, 1706261-03A, 1706261-04A, 1706261-05A, 1706261-06A, 1706261-07A, 1706261-08A, 1706261-09A, 1706261-10A, 1706261-11A

Sample ID **MB-81112** Batch ID: **81112** TestNo: **SW6020A** Units: **mg/L**
 SampType: **MBLK** Run ID: **ICP-MS5_170630B** Analysis Date: **6/30/2017 2:43:00 PM** Prep Date: **6/26/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|--------|-----------|---------|------|----------|-----------|------|----------|------|
| Boron | <0.0100 | 0.0300 | | | | | | | | |

Sample ID **LCS-81112** Batch ID: **81112** TestNo: **SW6020A** Units: **mg/L**
 SampType: **LCS** Run ID: **ICP-MS5_170630B** Analysis Date: **6/30/2017 2:45:00 PM** Prep Date: **6/26/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|--------|-----------|---------|------|----------|-----------|------|----------|------|
| Boron | 0.195 | 0.0300 | 0.200 | 0 | 97.3 | 80 | 120 | | | |

Sample ID **LCSD-81112** Batch ID: **81112** TestNo: **SW6020A** Units: **mg/L**
 SampType: **LCSD** Run ID: **ICP-MS5_170630B** Analysis Date: **6/30/2017 2:46:00 PM** Prep Date: **6/26/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|--------|-----------|---------|------|----------|-----------|------|----------|------|
| Boron | 0.201 | 0.0300 | 0.200 | 0 | 101 | 80 | 120 | 3.28 | 15 | |

Sample ID **1706261-03A SD** Batch ID: **81112** TestNo: **SW6020A** Units: **mg/L**
 SampType: **SD** Run ID: **ICP-MS5_170630B** Analysis Date: **6/30/2017 2:52:00 PM** Prep Date: **6/26/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|-------|----------|------|
| Boron | 0.801 | 0.750 | 0 | 0.642 | | | | 22.0 | 10 | R |
| Calcium | 77.2 | 7.50 | 0 | 77.0 | | | | 0.303 | 10 | |
| Sodium | 60.3 | 7.50 | 0 | 59.7 | | | | 0.995 | 10 | |

Sample ID **1706261-03A PDS** Batch ID: **81112** TestNo: **SW6020A** Units: **mg/L**
 SampType: **PDS** Run ID: **ICP-MS5_170630B** Analysis Date: **6/30/2017 3:09:00 PM** Prep Date: **6/26/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Boron | 1.70 | 0.150 | 1.00 | 0.642 | 106 | 80 | 120 | | | |
| Calcium | 103 | 1.50 | 25.0 | 77.0 | 104 | 80 | 120 | | | |
| Sodium | 84.9 | 1.50 | 25.0 | 59.7 | 101 | 80 | 120 | | | |

Sample ID **1706261-03A MS** Batch ID: **81112** TestNo: **SW6020A** Units: **mg/L**
 SampType: **MS** Run ID: **ICP-MS5_170630B** Analysis Date: **6/30/2017 3:11:00 PM** Prep Date: **6/26/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Boron | 0.896 | 0.150 | 0.200 | 0.642 | 127 | 80 | 120 | | | S |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL

DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental

Work Order: 1706261

Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170630B

| Sample ID | 1706261-03A MSD | Batch ID: | 81112 | TestNo: | SW6020A | Units: | mg/L | | | |
|-----------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|------|----------|------|
| SampType: | MSD | Run ID: | ICP-MS5_170630B | Analysis Date: | 6/30/2017 3:13:00 PM | Prep Date: | 6/26/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 0.909 | 0.150 | 0.200 | 0.642 | 134 | 80 | 120 | 1.48 | 15 | S |

Qualifiers:

- B Analyte detected in the associated Method Blank
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- J Analyte detected between SDL and RL

- DF Dilution Factor
- MDL Method Detection Limit
- R RPD outside accepted control limits
- S Spike Recovery outside control limits
- N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706261
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_170627A

The QC data in batch 81132 applies to the following samples: 1706261-01C, 1706261-02C, 1706261-03C, 1706261-04C, 1706261-05C, 1706261-06C, 1706261-07C, 1706261-08C, 1706261-09C, 1706261-10C, 1706261-11C

| | | | |
|---------------------------|---------------------------------|--|------------------------------|
| Sample ID MB-81132 | Batch ID: 81132 | TestNo: M2320 B | Units: mg/L @ pH 4.27 |
| SampType: MBLK | Run ID: TITRATOR_170627A | Analysis Date: 6/27/2017 8:13:00 AM | Prep Date: 6/27/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Total (As CaCO3) | <20.0 | 20.0 | | | | | | | | |

| | | | |
|----------------------------|---------------------------------|--|------------------------------|
| Sample ID LCS-81132 | Batch ID: 81132 | TestNo: M2320 B | Units: mg/L @ pH 4.14 |
| SampType: LCS | Run ID: TITRATOR_170627A | Analysis Date: 6/27/2017 8:26:00 AM | Prep Date: 6/27/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Total (As CaCO3) | 52.9 | 20.0 | 50.00 | 0 | 106 | 74 | 129 | | | |

| | | | |
|----------------------------------|---------------------------------|--|------------------------------|
| Sample ID 1706261-03C-DUP | Batch ID: 81132 | TestNo: M2320 B | Units: mg/L @ pH 4.52 |
| SampType: DUP | Run ID: TITRATOR_170627A | Analysis Date: 6/27/2017 9:35:00 AM | Prep Date: 6/27/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | 239 | 20.0 | 0 | 240.3 | | | | 0.626 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | 239 | 20.0 | 0 | 240.3 | | | | 0.626 | 20 | |

| | | | |
|----------------------------------|---------------------------------|---|------------------------------|
| Sample ID 1706277-06C-DUP | Batch ID: 81132 | TestNo: M2320 B | Units: mg/L @ pH 4.52 |
| SampType: DUP | Run ID: TITRATOR_170627A | Analysis Date: 6/27/2017 12:04:00 PM | Prep Date: 6/27/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | 281 | 20.0 | 0 | 286.2 | | | | 1.98 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | 281 | 20.0 | 0 | 286.2 | | | | 1.98 | 20 | |

| | |
|---|--|
| <p>Qualifiers:</p> <p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p> | <p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAC certified</p> |
|---|--|

2609 North River Road, Port Allen, Louisiana 70767
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ARS International, LLC

Laboratory Analysis Report

ARS1-17-01844

Prepared for:

B-Environmental

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Fax: 361-572-4115**

Project Manager Review

Management Review

Notes: ARS International, LLC assumes no liability for the use or the interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

Contact Person: Questions regarding this analytical report should be addressed to:

**Project Manager
ProjectManagers@amrad.com**

**Phone: 225.381.2991
Fax: 225.381.2996**



LELAP Cert# 01949



2609 North River Road, Port Allen, Louisiana 70767
 1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01844

Request or PO Number: N/A

Client Sample ID: S171711827 (BATCH 56751)

ARS Sample ID: ARS1-17-01844-001

Sample Collection Date: 06/20/17

Date Received: 06/23/17

Sample Matrix: Aqueous

Report Date: 07/21/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | -0.017 | 0.061 | 0.153 | 0.057 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/14/17 7:39 | CTRAMEL | 103% |
| Ra-228 | 0.135 | 0.658 | 1.166 | 0.542 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/07/17 12:11 | CTRAMEL | 95% |

Project Manager Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

LELAP Certificate# 01949



2609 North River Road, Port Allen, Louisiana 70767
 1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01844

Request or PO Number: N/A

Client Sample ID: S17171182A (BATCH 56751)

ARS Sample ID: ARS1-17-01844-002

Sample Collection Date: 06/20/17

Date Received: 06/23/17

Sample Matrix: Aqueous

Report Date: 07/21/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.208 | 0.131 | 0.162 | 0.063 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 07/14/17 7:40 | CTRAMEL | 99% |
| Ra-228 | 0.326 | 0.647 | 1.114 | 0.516 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/07/17 12:11 | CTRAMEL | 89% |

Project Manager Review

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2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01844

Request or PO Number: N/A

Client Sample ID: S17171182B (BATCH 56751)

ARS Sample ID: ARS1-17-01844-003

Sample Collection Date: 06/20/17

Date Received: 06/23/17

Sample Matrix: Aqueous

Report Date: 07/21/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.263 | 0.141 | 0.149 | 0.056 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 07/14/17 7:40 | CTRAMEL | 99% |
| Ra-228 | 1.409 | 0.793 | 1.158 | 0.536 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 07/07/17 12:11 | CTRAMEL | 89% |

Project Manager Review

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LELAP Certificate# 01949



2609 North River Road, Port Allen, Louisiana 70767
 1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01844

Request or PO Number: N/A

Client Sample ID: S17171182C (BATCH 56751)

ARS Sample ID: ARS1-17-01844-004

Sample Collection Date: 06/20/17

Date Received: 06/23/17

Sample Matrix: Aqueous

Report Date: 07/21/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | NDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | -0.025 | 0.090 | 0.195 | 0.081 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/14/17 7:40 | CTRAMEL | 102% |
| Ra-228 | 0.945 | 0.753 | 1.190 | 0.555 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/07/17 12:11 | CTRAMEL | 97% |

Project Manager Review

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2609 North River Road, Port Allen, Louisiana 70767
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ARS Sample Delivery Group: ARS1-17-01844

Request or PO Number: N/A

Client Sample ID: S17171182D (BATCH 56751)

ARS Sample ID: ARS1-17-01844-005

Sample Collection Date: 06/20/17

Date Received: 06/23/17

Sample Matrix: Aqueous

Report Date: 07/21/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.295 | 0.166 | 0.202 | 0.082 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 07/14/17 7:39 | CTRAMEL | 96% |
| Ra-228 | 0.577 | 0.738 | 1.232 | 0.572 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/07/17 12:11 | CTRAMEL | 87% |

Project Manager Review

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2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01844

Request or PO Number: N/A

Client Sample ID: S17171182E (BATCH 56751)

ARS Sample ID: ARS1-17-01844-006

Sample Collection Date: 06/20/17

Date Received: 06/23/17

Sample Matrix: Aqueous

Report Date: 07/21/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | NDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.223 | 0.151 | 0.197 | 0.078 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 07/14/17 7:39 | CTRAMEL | 92% |
| Ra-228 | 0.320 | 0.682 | 1.177 | 0.546 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/07/17 12:11 | CTRAMEL | 89% |

Project Manager Review

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2609 North River Road, Port Allen, Louisiana 70767
 1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01845

Request or PO Number: N/A

Client Sample ID: S17171182F (BATCH 56751)

ARS Sample ID: ARS1-17-01845-001

Sample Collection Date: 06/20/17

Date Received: 06/23/17

Sample Matrix: Aqueous

Report Date: 07/21/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.254 | 0.139 | 0.149 | 0.056 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 07/14/17 7:39 | CTRAMEL | 98% |
| Ra-228 | 0.284 | 0.672 | 1.166 | 0.540 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/07/17 12:11 | CTRAMEL | 104% |

Project Manager Review

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2609 North River Road, Port Allen, Louisiana 70767
 1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01845

Request or PO Number: N/A

Client Sample ID: S17171182G (BATCH 56751)

ARS Sample ID: ARS1-17-01845-002

Sample Collection Date: 06/20/17

Date Received: 06/23/17

Sample Matrix: Aqueous

Report Date: 07/21/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.201 | 0.131 | 0.159 | 0.060 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 07/19/17 9:21 | SCAUSEY | 106% |
| Ra-228 | 1.457 | 0.795 | 1.152 | 0.534 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 07/12/17 12:19 | SCAUSEY | 111% |

Project Manager Review

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2609 North River Road, Port Allen, Louisiana 70767
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ARS Sample Delivery Group: ARS1-17-01845

Request or PO Number: N/A

Client Sample ID: S17171182H (BATCH 56751)

ARS Sample ID: ARS1-17-01845-003

Sample Collection Date: 06/20/17

Date Received: 06/23/17

Sample Matrix: Aqueous

Report Date: 07/21/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.266 | 0.142 | 0.154 | 0.059 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 07/19/17 9:21 | SCAUSEY | 106% |
| Ra-228 | 0.226 | 0.603 | 1.053 | 0.487 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/12/17 12:19 | SCAUSEY | 106% |

Project Manager Review

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1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01845

Request or PO Number: N/A

Client Sample ID: S17171182I (BATCH 56751)

ARS Sample ID: ARS1-17-01845-004

Sample Collection Date: 06/20/17

Date Received: 06/23/17

Sample Matrix: Aqueous

Report Date: 07/21/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.178 | 0.116 | 0.137 | 0.051 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 07/19/17 9:21 | SCAUSEY | 109% |
| Ra-228 | 0.484 | 0.642 | 1.075 | 0.496 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/12/17 12:19 | SCAUSEY | 109% |

Project Manager Review

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2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01845

Client Sample ID: S17171182J (BATCH 56751)

Sample Collection Date: 06/20/17

Sample Matrix: Aqueous

Percent Solids: N/A

Request or PO Number: N/A

ARS Sample ID: ARS1-17-01845-005

Date Received: 06/23/17

Report Date: 07/21/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.739 | 0.237 | 0.180 | 0.074 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 07/19/17 9:21 | SCAUSEY | 107% |
| Ra-228 | 1.188 | 0.800 | 1.229 | 0.573 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/12/17 12:19 | SCAUSEY | 104% |

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Project Manager Review

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LELAP Certificate# 01949



**INTERNATIONAL
QC Results Report**

2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

Sample Delivery Group: ARS1-17-01844

Laboratory Control Sample Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | LCS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|----------------------|
| ARS1-B17-01337 | LCS | RA-226 | 30.462 | 4.899 | 0.098 | 27.531 | N/A | pCi/L | ARS-010/EPA 903 | 7/14/17 9:39 | CT | 111 | 75%-125% |
| ARS1-B17-01337 | LCS | RA-228 | 37.364 | 6.211 | 1.045 | 39.784 | N/A | pCi/L | ARS-010/EPA 904 | 7/7/17 14:10 | CT | 94 | 75%-125% |

Blank Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|
| ARS1-B17-01337 | MBL | RA-226 | 0.145 | 0.081 | 0.091 | NA | | pCi/L | ARS-010/EPA 903 | 7/14/17 9:39 | CT |
| ARS1-B17-01337 | MBL | RA-228 | 0.335 | 0.365 | 0.599 | NA | U | pCi/L | ARS-010/EPA 904 | 7/7/17 14:10 | CT |

RER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | RER | RER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01337 | LCSD | RA-226 | 30.462 | 4.899 | 32.113 | 5.167 | N/A | pCi/L | ARS-010/EPA 903 | 7/14/17 9:39 | CT | 0.16 | < 1 |
| ARS1-B17-01337 | LCSD | RA-228 | 37.364 | 6.211 | 37.098 | 6.169 | N/A | pCi/L | ARS-010/EPA 904 | 7/7/17 14:10 | CT | 0.02 | < 1 |

DER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | DER | DER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01337 | LCSD | RA-226 | 30.462 | 4.899 | 32.113 | 5.167 | N/A | pCi/L | ARS-010/EPA 903 | 7/14/17 9:39 | CT | 0.23 | < 3 |
| ARS1-B17-01337 | LCSD | RA-228 | 37.364 | 6.211 | 37.098 | 6.169 | N/A | pCi/L | ARS-010/EPA 904 | 7/7/17 14:10 | CT | 0.03 | < 3 |

Matrix Spike

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | MS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|---------------------|
| ARS1-B17-01337 | MS | RA-226 | 56.138 | 9.035 | 0.160 | 55.385 | N/A | pCi/L | ARS-010/EPA 903 | 7/14/17 9:39 | CT | 101 | 60%-140% |
| ARS1-B17-01337 | MS | RA-228 | 46.126 | 7.662 | 1.302 | 51.843 | N/A | pCi/L | ARS-010/EPA 904 | 7/7/17 14:10 | CT | 89 | 60%-140% |
| ARS1-B17-01337 | MSD | RA-226 | 57.913 | 9.316 | 0.165 | 55.364 | N/A | pCi/L | ARS-010/EPA 903 | 7/14/17 9:39 | CT | 105 | 60%-140% |
| ARS1-B17-01337 | MSD | RA-228 | 45.116 | 7.522 | 1.430 | 51.996 | N/A | pCi/L | ARS-010/EPA 904 | 7/7/17 14:10 | CT | 87 | 60%-140% |

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Project Manager Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

LCLAP Certificate # 01949

NELAP Certificate # E87558



QC Results Report

2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

Sample Delivery Group: ARS1-17-01845

Laboratory Control Sample Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | LCS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|----------------------|
| ARS1-B17-01337 | LCS | RA-226 | 30.462 | 4.899 | 0.098 | 27.531 | N/A | pCi/L | ARS-010/EPA 903 | 7/14/17 9:39 | CT | 111 | 75%-125% |
| ARS1-B17-01337 | LCS | RA-228 | 37.364 | 6.211 | 1.045 | 39.784 | N/A | pCi/L | ARS-010/EPA 904 | 7/7/17 14:10 | CT | 94 | 75%-125% |

Blank Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|
| ARS1-B17-01337 | MBL | RA-226 | 0.145 | 0.081 | 0.091 | NA | | pCi/L | ARS-010/EPA 903 | 7/14/17 9:39 | CT |
| ARS1-B17-01337 | MBL | RA-228 | 0.335 | 0.365 | 0.599 | NA | U | pCi/L | ARS-010/EPA 904 | 7/7/17 14:10 | CT |

RER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | RER | RER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01337 | LCSD | RA-226 | 30.462 | 4.899 | 32.113 | 5.167 | N/A | pCi/L | ARS-010/EPA 903 | 7/14/17 9:39 | CT | 0.16 | < 1 |
| ARS1-B17-01337 | LCSD | RA-228 | 37.364 | 6.211 | 37.098 | 6.169 | N/A | pCi/L | ARS-010/EPA 904 | 7/7/17 14:10 | CT | 0.02 | < 1 |

DER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | DER | DER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01337 | LCSD | RA-226 | 30.462 | 4.899 | 32.113 | 5.167 | N/A | pCi/L | ARS-010/EPA 903 | 7/14/17 9:39 | CT | 0.23 | < 3 |
| ARS1-B17-01337 | LCSD | RA-228 | 37.364 | 6.211 | 37.098 | 6.169 | N/A | pCi/L | ARS-010/EPA 904 | 7/7/17 14:10 | CT | 0.03 | < 3 |

Project Manager Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

LELAP Certificate# 01949

NELAP Certificate # E87558



QC Results Report

2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

Sample Delivery Group: ARS1-17-01845

Laboratory Control Sample Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2σ) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | LCS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|----------------------|
| ARS1-B17-01375 | LCS | RA-226 | 23.217 | 3.753 | 0.106 | 27.545 | N/A | pCi/L | ARS-010/EPA 903 | 7/19/17 9:21 | SC | 84 | 75%-125% |
| ARS1-B17-01375 | LCS | RA-228 | 37.334 | 6.220 | 1.089 | 39.784 | N/A | pCi/L | ARS-010/EPA 904 | 7/19/17 9:21 | SC | 94 | 75%-125% |

Blank Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2σ) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|
| ARS1-B17-01375 | MBL | RA-226 | 0.047 | 0.059 | 0.097 | NA | U | pCi/L | ARS-010/EPA 903 | 7/19/17 9:21 | SC |
| ARS1-B17-01375 | MBL | RA-228 | 0.085 | 0.375 | 0.664 | NA | U | pCi/L | ARS-010/EPA 904 | 7/19/17 9:21 | SC |

RER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2σ) | Result 2 | CSU 2 (2σ) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | RER | RER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01375 | LCSD | RA-226 | 23.217 | 3.753 | 23.497 | 3.803 | N/A | pCi/L | ARS-010/EPA 903 | 7/19/17 9:21 | SC | 0.04 | < 1 |
| ARS1-B17-01375 | LCSD | RA-228 | 37.334 | 6.220 | 36.006 | 5.998 | N/A | pCi/L | ARS-010/EPA 904 | 7/19/17 9:21 | SC | 0.11 | < 1 |

DER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2σ) | Result 2 | CSU 2 (2σ) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | DER | DER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01375 | LCSD | RA-226 | 23.217 | 3.753 | 23.497 | 3.803 | N/A | pCi/L | ARS-010/EPA 903 | 7/19/17 9:21 | SC | 0.05 | < 3 |
| ARS1-B17-01375 | LCSD | RA-228 | 37.334 | 6.220 | 36.006 | 5.998 | N/A | pCi/L | ARS-010/EPA 904 | 7/19/17 9:21 | SC | 0.15 | < 3 |

Project Manager Review

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LELAP Certificate# 01949

NELAP Certificate # E87558



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1 (800) 401-4277 • Fax (225) 381-2996

Notes (Case Narrative):

Comments:

- 1.0) All MDA/MDC values are calculated on a sample specific basis.
- 2.0) Soil and Sludge analysis are reported on a wet basis or an as received basis unless otherwise indicated.
- 3.0) Data in this report are within the limits of uncertainty specified in the reference method unless otherwise specified.
- 4.0) Modified analysis procedures are procedures that are modified to meet the certain specifications. An example may be the use of a water method to analyze a solid matrix due to the lack of an officially recognized procedure for the analysis of the solid matrix. Modified analyses are indicated by the subsequent addition of "m" to the procedure number (i.e. 900.0M).
- 5.0) Total activity is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring radioactive decay chains and other prominent radioactive nuclides. Total activity may be lower than the actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not representative of nuclides that emit solely alpha or beta particles.
- 6.0) Ra-228 is determined via secular equilibrium with its daughter, Actinium 228 (Gamma Spectroscopy only).
- 7.0) U-238 is determined via secular equilibrium with its daughter, Thorium 234 (Gamma Spectroscopy only).
- 8.0) All gamma spectroscopy was performed utilizing high purity germanium detectors (HPGe).
- 9.0) ARS makes every attempt to match sample density to calibrated density; however, in some cases, it is not practical or possible to do so and data results may be affected (Gamma Spectroscopy only).
- 10.0) Gamma spectroscopy results are calculated values based on the ORTEC[®] GammaVision ENV32 Analysis Engine.
- 11.0) ACLASS DOD and ISO 17025 certification applies only to the following analytes and methods: Gross Alpha and Gross Beta (EPA 900, SM7110B&C, SW846 9310); Radium 226 (EPA 903, EPA 903.1, SM 7500 Ra-B, SW846 9315); Radium 228 (EPA 904, SM 7500 Ra-B SW846 9320); Iodine-131 (EPA 901.1); Uranium by ICPMS (EPA 200.8); Strontium 89/90 (EPA 905, Eichrom SRW01, HASL 300 Sr-03-RC); Tritium (EPA 906, EPA 906M); Gamma Emitters (EPA 901.1, SM7120B, HASL 300 Ga-01-R); Americium-241, Curium 242/244, Plutonium 239/240 and 241, Thorium 228/230/232, Uranium 234/233 and 238 (Eichrom ACW03 VBS); Lead 210 (HASL 300 Pb-01-RC, Eichrom OTW01); Polonium 210 (HASL 300 Po-01-RC, HASL 300 Po-02-RC); Technetium-99 (Eichrom TCW02, Eichrom TCS01M).

Method References:

- 1.0) EPA 600/4-80-032; Prescribed Procedures for the Measurements of Radioactivity in Drinking Water, August 1980.
- 2.0) Standard Methods for the Examination of Water and Wastewater (On-Line Edition)
- 3.0) EPA SW-846; Test Methods for Evaluating Solid Waste, (On-Line edition)
- 4.0) EPA 600/4/79-020; Methods for Chemical Analysis of Water and Waste, March 1983.
- 5.0) HASL 300; The Procedures Manual of the Environmental Measurements Laboratory, Volume I, 28th Edition February, 1997.

Definitions:

| | |
|----------|---|
| CRDL | Contract Required Detection Limit |
| CSU | Combined Standard Uncertainty |
| DLC | Decision Level Concentration (ANSI N42.23) or critical level |
| DO | Duplicate Original |
| DUP | Method Duplicate |
| LCS/LCSD | Laboratory Control Sample/Laboratory Control Sample Duplicate |
| MDA | Minimum Detectable Activity |
| MDC | (Minimum Detectable Concentration) minimum concentration of the analyte that ARS can detect utilizing the specific analysis |
| MBL | Method Blank |
| MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| N/A | Not Applicable |
| NP | Not Provided |
| NR | Not Referenced |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |

Data Qualifiers:

| | |
|----|--|
| B | The analyte is found in both the associated method blank and the sample. This flag indicates probable blank contamination. |
| D | Sample analysis accomplished through dilution. |
| J | The reported result is an estimated value above the limit of detection but outside of quantitation range (e.g., matrix interference was observed). |
| Q | One or more quality control criteria failed (e.g., LCS recovery, surrogate spike recovery, or CCV recovery). |
| U | Activity is below the MDC, MDA, MDL, or LOD |
| N | The analyte is a tentatively identified compound using mass spectrometry or any non-customer requested compounds that are tentatively identified. |
| * | LCS/LCSD or MS/MSD fails RPD criteria. |
| S | Spike |
| SC | Subcontracted out to another qualified laboratory |
| H | Holding time exceeded |

ARS-059-010
Revision: 9.1
Revision Date: 03-14-2017

LELAP Cert# 01949

NELAP Cert# E87558

B Environmental Laboratory, LLC
 1606 E Brazos Suite D, Victoria, Texas 77901, Ph: (361) 572-8224

Chain Of Custody Rec Batch # 56751 TEMP UN-C: 4.8 Page 1 of 2

Customer / Report Information Billing Information Check box if Billing is the same as Report Information

Name: Coletto Creek Power Address: _____ THERM ID# 3 TEMP Corr: 4.6

Attention: Rick Coleman Attention: _____ PO # _____ EMAIL: richard.coleman@dmnev.com

Address: P. O. Box 8; Fannin, TX 77960 Project: CCR Sampling Comments: _____ Requested Analysis _____ Completed By laboratory _____

| Sample Information | Collected | Matrix | Container | Preservative | Metals* | Cl, F*, SO4 | pH | TDS | Ra226 & Ra228 | Alk: Tot, Carb, Bi Carb | Diss Li & Mo | Custody Seals Present | | |
|--------------------------|----------------|-------------|-----------|--------------|----------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------|
| | | | | | | | | | | | | Yes <input type="checkbox"/> | No <input type="checkbox"/> | |
| Client / Field Sample ID | Date | Time | TYPE | NUMBER | Size | | | | | | | LAB Sample Number | | |
| <u>E. Blank</u> | <u>6-20-17</u> | <u>1500</u> | <u>G</u> | <u>P</u> | <u>6 250mL</u> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <u>S171711827</u> |
| <u>Deep</u> | | | <u>G</u> | <u>P</u> | <u>1L</u> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <u>S17171182A</u> |
| <u>BV-21/MS+MSD</u> | | <u>1045</u> | <u>G</u> | <u>P</u> | <u>6 500mL</u> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <u>S17171182D</u> |
| <u>BV-21/MS + MSD</u> | | <u>1045</u> | <u>G</u> | <u>P</u> | <u>6 500mL</u> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <u>S17171182B</u> |
| <u>BV-21</u> | | <u>1045</u> | <u>G</u> | <u>P</u> | <u>6 500mL</u> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <u>S17171182C</u> |
| <u>BV-22</u> | | <u>935</u> | <u>G</u> | <u>P</u> | <u>1L</u> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <u>S17171182D</u> |
| <u>BV-15</u> | | <u>1120</u> | <u>G</u> | <u>P</u> | <u>6 500mL</u> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <u>S17171182D</u> |

Required Turnaround: Routine (6-10 Business days) Expedite / Rush: 1 Business Day 2 Business Days 3 Business days 5 Business days Other _____

Surcharge will apply to RUSH TAT Authorized BY: _____

Relinquished By: _____ Date: 6-20-17 Time: 1315 Received By: _____ Date: 6/20/17 Time: 1315

Relinquished By: _____ Date: 6/20/17 Time: 1640 Received By: _____ Date: 6/20/17 Time: 1640

Relinquished By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____

1606 E Brazos Suite D, Victoria, Texas 77901 Ph. (361) 572-8224 Fax (361) 572-4115 Toll Free 1-800-460-8223 Form #3000-0-2 REV 1.2 Email: kbeviro@suddenlinkmail.com www.benviro.com

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 1606 E Brazos Suite D Victoria, Texas 77901 Ph: (361) 572-8224

Chain Of Custody Rec Batch # **56751**

TEMP UN-C: **4.8** Page **2** of **2**

Customer / Report Information: **Billing Information** Check box if Billing is the same as Report Information

Name: **Coleto Creek Power** Address: **PO #** THERM ID# **3** TEMP Corr: **4.6**

Attention: **Rick Coleman** Address: **PO #** EMAIL: **richard.coleman@dmnev.com** Requested Analysis: **B** Completed By laboratory

Address: **P. O. Box 8; Fannin, TX 77960** Project: **CCR Sampling** Comments:

| Sample Information | Collected | | Matrix | Container | Preservative | Metals* | Cl, F, SO4 | pH | TDS | Ra226 & Ra228 | Alk: Tot, Carb, Bi Carb | Diss Li & Mo | Custody Seals Present | Intact | LAB Sample Number |
|--------------------|-----------|------|--------|----------------------|--|---|------------|----|-----|---------------|-------------------------|--------------|---|---|-------------------|
| | Date | Time | | | | | | | | | | | | | |
| MW-4 | 6-20-17 | 8:42 | WW | 1L 500mL 250mL | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL | X | X | X | X | X | X | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | S17171182E |
| MW-8 | 10/11 | | WW | 1L 500mL 250mL | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL | X | X | X | X | X | X | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | S17171182F |
| BV-1 | 14/15 | | WW | 1L 500mL 250mL | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL | X | X | X | X | X | X | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | S17171182G |
| BV-5 | 14/43 | | WW | 1L 500mL 250mL | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL | X | X | X | X | X | X | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | S17171182H |
| BV-10 | 13/44 | | WW | 1L 500mL 250mL | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL | X | X | X | X | X | X | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | S17171182I |
| BV-19 | 13/18 | | WW | 1L 500mL 250mL | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL | X | X | X | X | X | X | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | S17171182J |

Required Turnaround: Routine (6-10 Business Days) Expedite / Rush: 1 Business Day 2 Business Days 3 Business Days 5 Business Days Other

Surcharge will apply to RUSH TAT Authorized By: _____ Container Type: P=Plastic G=Glass, V=Voa, O=Other Carrier ID: _____

| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
|--------------------|---------|-------|--------------------|---------|-------|
| <i>[Signature]</i> | 6-20-17 | 1315 | <i>[Signature]</i> | 6/20/17 | 1315 |
| <i>[Signature]</i> | 6/20/17 | 1640 | <i>[Signature]</i> | 6/20/17 | 1640 |

BatchNo: 56830

SAMPLE REPORT



T104704328-17-14

Business

Coletto Creek Power - R Coleman
PO Box 8
Fannin TX 77960
Att: Rick Coleman



Laboratory

B Environmental, LLC.
1606 E Brazos, Suite D
Victoria TX 77901
ph. 361-572-8224

Reference Information

Project: CCR
Printed: Wednesday,
July 26, 2017

Re: Coletto Creek Power - R Coleman

Dear: Rick Coleman

Attached are the results for sample(s) received on 6/21/2017

The analytical results relate only to the samples tested.

All supporting quality data meets the requirements of NELAC unless noted in the case narrative section of the report.

This report contains 45 pages (including the cover page)

If you have any questions concerning this report, please do not hesitate to call (361) 572-8224 or Fax us at (361) 572-4115

Respectfully Submitted,

Kevin Baros

Laboratory Director



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BatchNo:

56830

1606 E Brazos, Suite D

Victoria TX 77901

Batch No: 56830

Sample Receipt Checklist

Date Received: 6/22/2017

Project CCR Received By: Woodruff

Login completed by: Woodruff 6/22/2017
Signature LoginDate:

Carrier Name Walk In

- Shipping container/cooler in good condition? YES NO Not Present
- Custody seals intact on shipping container/cooler? YES NO Not Present
- Custody seals intact on sample bottles? YES NO Not Present
- Chain of Custody present? YES NO
- Chain of Custody signed when relinquished and received YES NO
- Chain of Custody agrees with sample labels? YES NO
- Samples in proper container/bottles? YES NO
- Sample containers intact? YES NO
- Sufficient sample volume for indicated tests? YES NO
- All samples received within holding times? YES NO
- Container/Temp Blank - temperature in compliance? YES NO >0 <6 °C On Ice
- Water - VOA vials have zero headspace? Bubble < 6mm? YES NO No VOA Vials submitted
- Water - pH acceptable upon receipt? YES NO Not Applicable

*TEMP 4.1/3.9 pH Adjusted? No Checked By L. Vahrenkamp

Any No and/or N/A (not applicable) response must be detailed in the comments section below.

Client contacted Person Contacted
Contacted by: Date Contacted:

Regarding

Comments
Therm #3. HNO3 Lot # 2-42-12. pH Paper Lot # 2-25-6.

Corrective Action



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BatchNo:

56830

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Sample Report Information



| | | | | | |
|------------|------------|------------|------|----------|--------|
| Sample ID: | S171730743 | Client ID: | PS 3 | Sampler: | Client |
|------------|------------|------------|------|----------|--------|

Client: Coletto Creek Power - R Coleman
 Study: Water

Batch No: 56830
 Sampled: 6/21/2017 8:45 AM

Project: CCR

Location: PS 3

Type: Grab
 Matrix: Water

Notes:

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 44 | mg/L | EPA 300 | K Baros | 6/22/2017 21:38 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 146 | mg/L | SM 2320 B | | 6/27/2017 11:20 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/27/2017 11:20 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 146 | mg/L | SM 2320 B | | 6/27/2017 11:20 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 1 | mg/L | EPA 300 | K Baros | 6/22/2017 21:38 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.48 | SU | SM 4500-H+B | C Watts | 6/21/2017 16:40 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 406 | mg/L | SM2540C | C Watts | 6/22/2017 16:15 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/3/2017 15:09 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 41 | mg/L | EPA 300 | K Baros | 6/22/2017 21:38 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/20/2017 8:12 | | | | | | <input checked="" type="checkbox"/> ARS International |



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Sample Report Information



| | | | | | |
|-------------------|-------------------|-------------------|--------------|-----------------|---------------|
| Sample ID: | S17173074A | Client ID: | MW-11 | Sampler: | Client |
|-------------------|-------------------|-------------------|--------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman

Batch No: 56830

Study: Water

Sampled: 6/21/2017

9:13 AM

Project: CCR

Location: MW #11

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 43.7 | mg/L | EPA 300 | K Baros | 6/22/2017 15:55 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 146 | mg/L | SM 2320 B | | 6/27/2017 11:25 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/27/2017 11:25 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 146 | mg/L | SM 2320 B | | 6/27/2017 11:25 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 1.04 | mg/L | EPA 300 | K Baros | 6/22/2017 15:55 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.56 | SU | SM 4500-H+B | C Watts | 6/21/2017 16:40 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 373 | mg/L | SM2540C | C Watts | 6/27/2017 10:30 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/3/2017 15:10 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 44 | mg/L | EPA 300 | K Baros | 6/22/2017 15:55 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/20/2017 8:12 | | | | | <input checked="" type="checkbox"/> | ARS International |



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BatchNo: 56830

Page 5 of 45

Sample Report Information



| | | | | | |
|------------|------------|------------|------|----------|--------|
| Sample ID: | S17173074B | Client ID: | MW-9 | Sampler: | Client |
|------------|------------|------------|------|----------|--------|

Client: Coleto Creek Power - R Coleman
 Study: Water
 Project: CCR
 Location: MW #9
 Notes:

Batch No: 56830
 Sampled: 6/21/2017 10:14 AM
 Type: Grab
 Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 66 | mg/L | EPA 300 | K Baros | 6/22/2017 16:33 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 134 | mg/L | SM 2320 B | | 6/27/2017 11:31 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/27/2017 11:31 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 134 | mg/L | SM 2320 B | | 6/27/2017 11:31 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 1.39 | mg/L | EPA 300 | K Baros | 6/22/2017 16:33 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.44 | SU | SM 4500-H+B | C Watts | 6/21/2017 16:40 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 393 | mg/L | SM2540C | C Watts | 6/27/2017 10:30 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/3/2017 15:12 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 60 | mg/L | EPA 300 | K Baros | 6/22/2017 16:33 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/20/2017 8:12 | | | | | | <input checked="" type="checkbox"/> ARS International |



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BatchNo:

56830

Page 6 of 45

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Sample Report Information



| | | | |
|------------------------------|-------------------------|-----------------|---------------|
| Sample ID: S17173074C | Client ID: MW-9A | Sampler: | Client |
|------------------------------|-------------------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman

Batch No: 56830

Study: Water

Sampled: 6/21/2017

10:44 AM

Project: CCR

Location: MW 9A

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 63 | mg/L | EPA 300 | K Baros | 6/22/2017 17:12 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 137 | mg/L | SM 2320 B | | 6/27/2017 11:36 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/27/2017 11:36 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 137 | mg/L | SM 2320 B | | 6/27/2017 11:36 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 1.29 | mg/L | EPA 300 | K Baros | 6/22/2017 17:12 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.49 | SU | SM 4500-H+B | C Watts | 6/21/2017 16:40 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 393 | mg/L | SM2540C | C Watts | 6/27/2017 10:30 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/3/2017 15:58 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 64 | mg/L | EPA 300 | K Baros | 6/22/2017 17:12 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/20/2017 8:12 | | | | | <input checked="" type="checkbox"/> | ARS International |



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77901

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BatchNo: 56830

Sample Report Information



| | | | | | |
|------------|-------------------|------------|-----|----------|--------|
| Sample ID: | S17173074D | Client ID: | Dup | Sampler: | Client |
|------------|-------------------|------------|-----|----------|--------|

Client: Coletto Creek Power - R Coleman
 Study: Water
 Project: CCR
 Location: Dup
 Notes:

Batch No: 56830
 Sampled: 6/21/2017 12:00 AM
 Type: Grab
 Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 44 | mg/L | EPA 300 | K Baros | 6/22/2017 17:50 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 144 | mg/L | SM 2320 B | | 6/27/2017 11:42 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/27/2017 11:42 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 144 | mg/L | SM 2320 B | | 6/27/2017 11:42 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 1.02 | mg/L | EPA 300 | K Baros | 6/22/2017 17:50 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.49 | SU | SM 4500-H+B | C Watts | 6/21/2017 16:40 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 390 | mg/L | SM2540C | C Watts | 6/27/2017 10:30 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/3/2017 15:59 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 44 | mg/L | EPA 300 | K Baros | 6/22/2017 17:50 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/20/2017 8:12 | | | | | <input checked="" type="checkbox"/> | ARS International |



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BatchNo: 56830

Sample Report Information



| | | | | | |
|------------|------------|------------|------|----------|--------|
| Sample ID: | S17173074E | Client ID: | MW-5 | Sampler: | Client |
|------------|------------|------------|------|----------|--------|

Client: Coletto Creek Power - R Coleman

Batch No: 56830

Study: Water

Sampled: 6/21/2017

11:12 AM

Project: CCR

Location: MW #5

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 138 | mg/L | EPA 300 | K Baros | 6/22/2017 18:28 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 286 | mg/L | SM 2320 B | | 6/27/2017 11:53 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/27/2017 11:53 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 286 | mg/L | SM 2320 B | | 6/27/2017 11:53 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.53 | mg/L | EPA 300 | K Baros | 6/22/2017 18:28 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.03 | SU | SM 4500-H+B | C Watts | 6/21/2017 16:40 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 813 | mg/L | SM2540C | C Watts | 6/27/2017 10:30 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/3/2017 14:55 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 182 | mg/L | EPA 300 | K Baros | 6/22/2017 18:28 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/20/2017 8:12 | | | | | <input checked="" type="checkbox"/> | ARS International |



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BatchNo:

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Sample Report Information



| | | | |
|------------------------------|-------------------------|----------|--------|
| Sample ID: S17173074F | Client ID: MW-10 | Sampler: | Client |
|------------------------------|-------------------------|----------|--------|

Client: Coletto Creek Power - R Coleman

Batch No: 56830

Study: Water

Sampled: 6/21/2017

1:38 PM

Project: CCR

Location: MW #10

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 77 | mg/L | EPA 300 | K Baros | 6/22/2017 20:22 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 241 | mg/L | SM 2320 B | | 6/27/2017 14:06 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/27/2017 14:06 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 241 | mg/L | SM 2320 B | | 6/27/2017 14:06 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.84 | mg/L | EPA 300 | K Baros | 6/22/2017 20:22 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.43 | SU | SM 4500-H+B | C Watts | 6/21/2017 16:40 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 550 | mg/L | SM2540C | C Watts | 6/27/2017 10:30 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/3/2017 16:01 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 92 | mg/L | EPA 300 | K Baros | 6/22/2017 20:22 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/20/2017 9:20 | | | | | | <input checked="" type="checkbox"/> ARS International |



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BatchNo: 56830

Sample Report Information



| | | | | | |
|------------|-------------------|------------|---------------|----------|---------------|
| Sample ID: | S17173074G | Client ID: | MW-10A | Sampler: | Client |
|------------|-------------------|------------|---------------|----------|---------------|

Client: Coletto Creek Power - R Coleman
 Study: Water

Batch No: 56830
 Sampled: 6/21/2017 2:15 PM

Project: CCR

Location: MW 10A

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 367 | mg/L | EPA 300 | K Baros | 6/22/2017 21:00 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 338 | mg/L | SM 2320 B | | 6/27/2017 14:20 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/27/2017 14:20 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 338 | mg/L | SM 2320 B | | 6/27/2017 14:20 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.45 | mg/L | EPA 300 | K Baros | 6/22/2017 21:00 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 6.82 | SU | SM 4500-H+B | C Watts | 6/21/2017 16:40 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 1123 | mg/L | SM2540C | C Watts | 6/27/2017 10:30 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/3/2017 16:03 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 86 | mg/L | EPA 300 | K Baros | 6/22/2017 21:00 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/19/2017 9:21 | | | | | <input checked="" type="checkbox"/> | ARS International |



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QA Summary Report

| Parameter | ID | Result | Ref Value | Amt Added | LOQ | Qualifier | Control | Flag | Comments |
|------------------------------------|------------|-----------|-----------|-----------|------|-----------|----------|----------|-------------------------------|
| Method Blank | | | | | | | | | |
| - Chloride, IC | Q171870955 | <1mg/L | 0 | | | 1 | 1 | | Blank Acceptable. |
| 6/22/2017 14:39 | | | | | | | | | |
| Fluoride, IC | Q171870955 | <0.25mg/L | 0 | | 0.25 | | 0.25 | | Blank Acceptable. |
| 6/22/2017 14:39 | | | | | | | | | |
| Solids, Total Dissolved | Q171801020 | <25mg/L | 0 | | 10 | | 25 | | Blank Acceptable. |
| 6/27/2017 10:30 | | | | | | | | | |
| Sulfate, IC | Q171870955 | <1mg/L | 0 | | | 1 | 1 | | Blank Acceptable. |
| 6/22/2017 14:39 | | | | | | | | | |
| Duplicate | | | | | | | | | |
| Solids, Total Dissolved | Q171801022 | 800mg/L | 813 | | 10 | 1.6% | 20 | | Duplicate RPD Acceptable. |
| 6/27/2017 10:30 | | | | | | | | | |
| Laboratory Control Standard | | | | | | | | | |
| - Chloride, IC | Q171870959 | 25.7mg/L | 25 | | | 1 | 102.8% | 80 - 120 | Standard Recovery Acceptable. |
| 6/22/2017 15:17 | | | | | | | 2.8% | 20 | Standard RPD Acceptable. |
| Fluoride, IC | Q171870959 | 2.07mg/L | 2 | | 0.25 | 103.5% | 80 - 120 | | Standard Recovery Acceptable. |
| 6/22/2017 15:17 | | | | | | 3.4% | 20 | | Standard RPD Acceptable. |
| Sulfate, IC | Q171870959 | 26.2mg/L | 25 | | | 1 | 104.8% | 80 - 120 | Standard Recovery Acceptable. |
| 6/22/2017 15:17 | | | | | | | 4.7% | 20 | Standard RPD Acceptable. |
| Matrix Spike | | | | | | | | | |
| - Chloride, IC | Q17187095A | 150mg/L | 149 | 25 | | 1 | 104.0% | 80 - 120 | Spike Recovery Acceptable. |
| 6/22/2017 19:06 | | | | | | | 0.7% | 20 | Spike RPD Acceptable. |
| Fluoride, IC | Q17187095A | 2.42mg/L | 2.48 | 2 | 0.25 | 97.0% | 80 - 120 | | Spike Recovery Acceptable. |
| 6/22/2017 19:06 | | | | | | 2.4% | 20 | | Spike RPD Acceptable. |
| Sulfate, IC | Q17187095A | 190mg/L | 188.8 | 25 | | 1 | 104.8% | 70 - 130 | Spike Recovery Acceptable. |
| 6/22/2017 19:06 | | | | | | | 0.6% | 20 | Spike RPD Acceptable. |
| Matrix Spike Dup | | | | | | | | | |
| - Chloride, IC | Q17187095B | 150mg/L | 0.149 | 25 | | 1 | 500.6% | 80 - 120 | Out of Range. |
| 6/22/2017 19:44 | | | | | | | 199.6% | 20 | RPD - Out of Range. |
| Fluoride, IC | Q17187095B | 2.39mg/L | 2.48 | 2 | 0.25 | 95.5% | 80 - 120 | | Spike Recovery Acceptable. |
| 6/22/2017 19:44 | | | | | | 3.7% | 20 | | Spike RPD Acceptable. |
| Sulfate, IC | Q17187095B | 190mg/L | 188.8 | 25 | | 1 | 104.8% | 70 - 130 | Spike Recovery Acceptable. |
| 6/22/2017 19:44 | | | | | | | 0.6% | 20 | Spike RPD Acceptable. |

Flag and Qualifier Legend

| | | | |
|--|--|--|---|
| | Negative - Result Detected | MDL = Method Detection Limit | DF = Dilution Factor |
| | Caution - Problem Detected | LOQ = Limit of Quantitation | J = Analyte detected between MDL and LOQ |
| | Warning - Null Value | S = surrogate standard out of limit | H = sample out of hold time |
| | MS, MSD, RPD- Failure may occur due to matrix interference, data released per QA plan | | |

Wednesday, July 26, 2017

B Environmental - LDMS QA Report Summary



B Environmental, LLC.
1606 E Brazos, Suite D

BatchNo: 56830

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Note:

THANK YOU!



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DHL Analytical, Inc.

Date: 06-Jul-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Lab Order: 1706277

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition and Standard Methods.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives except where noted in the following. For Dissolved Metals Analysis, the recovery and RPD of Lithium for the Matrix Spike Duplicate (1706277-06 MSD) were slightly above the method control limits. These are flagged accordingly in the QC Summary Report. This analyte was within method control limits in the associated LCS/MS. No further corrective action was taken.

For Total Metals Analysis, the recoveries of Calcium and Sodium for the Matrix Spike and Matrix Spike Duplicate (1706277-06 MS/MSD) were outside of the method control limits. These are flagged accordingly in the QC Summary Report. These analytes were within method control limits in the associated LCS. No further corrective action was taken.

For Total Metals Analysis, the RPD of Boron for the Serial Dilution (1706277-06 SD) was above the method control limit. This is flagged accordingly in the QC Summary Report. This analyte was within method control limits in the associated Post Digestion Spike. No further corrective action was taken.

For Dissolved/Total Metals Analysis, the results of Dissolved Lithium/Molybdenum for three samples were slightly higher than the results of Total Lithium/Molybdenum. The results were within acceptable analytical variation limits. No further corrective action was taken.

DHL Analytical, Inc.

Date: 06-Jul-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (56830)
Lab Order: 1706277

Client Sample ID: PS 3
Lab ID: 1706277-01
Alternate ID: S171730743
Collection Date: 06/21/17 08:45 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|-----------|----------------|----------|--------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: RO | | | |
| Dissolved Lithium | 0.00965 | 0.00500 | 0.0100 | J | mg/L | 1 | 07/05/17 12:44 PM |
| Dissolved Molybdenum | 0.00426 | 0.00200 | 0.00500 | J | mg/L | 1 | 06/30/17 12:46 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: RO | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 07/03/17 03:09 PM |
| Arsenic | 0.00828 | 0.00200 | 0.00500 | | mg/L | 1 | 07/03/17 03:09 PM |
| Barium | 0.163 | 0.00300 | 0.0100 | | mg/L | 1 | 07/03/17 03:09 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/03/17 03:09 PM |
| Boron | 1.29 | 0.0100 | 0.0300 | | mg/L | 1 | 07/03/17 03:09 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/03/17 03:09 PM |
| Calcium | 251 | 5.00 | 15.0 | | mg/L | 50 | 07/05/17 11:56 AM |
| Chromium | 0.0153 | 0.00200 | 0.00500 | | mg/L | 1 | 07/03/17 03:09 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 07/03/17 03:09 PM |
| Lead | 0.00367 | 0.000300 | 0.00100 | | mg/L | 1 | 07/03/17 03:09 PM |
| Lithium | 0.0105 | 0.00500 | 0.0100 | | mg/L | 1 | 07/05/17 01:29 PM |
| Magnesium | 4.38 | 0.100 | 0.300 | | mg/L | 1 | 07/03/17 03:09 PM |
| Molybdenum | 0.00486 | 0.00200 | 0.00500 | J | mg/L | 1 | 07/03/17 03:09 PM |
| Potassium | 2.05 | 0.100 | 0.300 | | mg/L | 1 | 07/03/17 03:09 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/03/17 03:09 PM |
| Sodium | 65.0 | 5.00 | 15.0 | | mg/L | 50 | 07/05/17 11:56 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 07/03/17 03:09 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.000800 | 0.000800 | 0.000200 | | mg/L | 1 | 06/30/17 11:33 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 146 | 10.0 | 20.0 | | mg/L @ pH 4.49 | 1 | 06/27/17 11:20 AM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.49 | 1 | 06/27/17 11:20 AM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.49 | 1 | 06/27/17 11:20 AM |
| Alkalinity, Total (As CaCO3) | 146 | 20.0 | 20.0 | | mg/L @ pH 4.49 | 1 | 06/27/17 11:20 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern J Analyte detected between MDL and RL
 MDL Method Detection Limit ND Not Detected at the Method Detection Limit
 RL Reporting Limit S Spike Recovery outside control limits Page 1 of 8

DHL Analytical, Inc.

Date: 06-Jul-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR (56830)
Lab Order: 1706277

Client Sample ID: MW-11
Lab ID: 1706277-02
Alternate ID: S17173074A
Collection Date: 06/21/17 09:13 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|--------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: RO | | | |
| Dissolved Lithium | 0.0139 | 0.00500 | 0.0100 | | mg/L | 1 | 07/05/17 12:46 PM |
| Dissolved Molybdenum | 0.00760 | 0.00200 | 0.00500 | | mg/L | 1 | 06/30/17 12:47 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: RO | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 07/03/17 03:10 PM |
| Arsenic | 0.0203 | 0.00200 | 0.00500 | | mg/L | 1 | 07/03/17 03:10 PM |
| Barium | 0.0822 | 0.00300 | 0.0100 | | mg/L | 1 | 07/03/17 03:10 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/03/17 03:10 PM |
| Boron | 1.19 | 0.0100 | 0.0300 | | mg/L | 1 | 07/03/17 03:10 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/03/17 03:10 PM |
| Calcium | 73.1 | 1.00 | 3.00 | | mg/L | 10 | 07/05/17 11:57 AM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/03/17 03:10 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 07/03/17 03:10 PM |
| Lead | 0.00322 | 0.000300 | 0.00100 | | mg/L | 1 | 07/03/17 03:10 PM |
| Lithium | 0.0136 | 0.00500 | 0.0100 | | mg/L | 1 | 07/05/17 01:30 PM |
| Magnesium | 4.11 | 0.100 | 0.300 | | mg/L | 1 | 07/03/17 03:10 PM |
| Molybdenum | 0.00659 | 0.00200 | 0.00500 | | mg/L | 1 | 07/03/17 03:10 PM |
| Potassium | 1.44 | 0.100 | 0.300 | | mg/L | 1 | 07/03/17 03:10 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/03/17 03:10 PM |
| Sodium | 62.7 | 1.00 | 3.00 | | mg/L | 10 | 07/05/17 11:57 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 07/03/17 03:10 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 06/30/17 11:35 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 146 | 10.0 | 20.0 | | mg/L @ pH 4.46 | 1 | 06/27/17 11:25 AM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.46 | 1 | 06/27/17 11:25 AM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.46 | 1 | 06/27/17 11:25 AM |
| Alkalinity, Total (As CaCO3) | 146 | 20.0 | 20.0 | | mg/L @ pH 4.46 | 1 | 06/27/17 11:25 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern J Analyte detected between MDL and RL
 MDL Method Detection Limit ND Not Detected at the Method Detection Limit
 RL Reporting Limit S Spike Recovery outside control limits Page 2 of 8

DHL Analytical, Inc.

Date: 06-Jul-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR (56830)
Lab Order: 1706277

Client Sample ID: MW-9
Lab ID: 1706277-03
Alternate ID: S17173074B
Collection Date: 06/21/17 10:14 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|--------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: RO | | | |
| Dissolved Lithium | 0.00592 | 0.00500 | 0.0100 | J | mg/L | 1 | 07/05/17 12:47 PM |
| Dissolved Molybdenum | 0.101 | 0.00200 | 0.00500 | | mg/L | 1 | 06/30/17 12:49 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: RO | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 07/03/17 03:12 PM |
| Arsenic | 0.00937 | 0.00200 | 0.00500 | | mg/L | 1 | 07/03/17 03:12 PM |
| Barium | 0.119 | 0.00300 | 0.0100 | | mg/L | 1 | 07/03/17 03:12 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/03/17 03:12 PM |
| Boron | 3.44 | 0.100 | 0.300 | | mg/L | 10 | 07/05/17 11:59 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/03/17 03:12 PM |
| Calcium | 60.7 | 1.00 | 3.00 | | mg/L | 10 | 07/05/17 11:59 AM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/03/17 03:12 PM |
| Cobalt | 0.00305 | 0.00300 | 0.00500 | J | mg/L | 1 | 07/03/17 03:12 PM |
| Lead | 0.00136 | 0.000300 | 0.00100 | | mg/L | 1 | 07/03/17 03:12 PM |
| Lithium | 0.00554 | 0.00500 | 0.0100 | J | mg/L | 1 | 07/05/17 01:32 PM |
| Magnesium | 7.07 | 0.100 | 0.300 | | mg/L | 1 | 07/03/17 03:12 PM |
| Molybdenum | 0.102 | 0.00200 | 0.00500 | | mg/L | 1 | 07/03/17 03:12 PM |
| Potassium | 0.872 | 0.100 | 0.300 | | mg/L | 1 | 07/03/17 03:12 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/03/17 03:12 PM |
| Sodium | 64.0 | 1.00 | 3.00 | | mg/L | 10 | 07/05/17 11:59 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 07/03/17 03:12 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 06/30/17 11:37 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 134 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/27/17 11:31 AM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/27/17 11:31 AM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/27/17 11:31 AM |
| Alkalinity, Total (As CaCO3) | 134 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/27/17 11:31 AM |

Qualifiers:

| | | | |
|-----|---|----|---|
| * | Value exceeds TCLP Maximum Concentration Level | B | Analyte detected in the associated Method Blank |
| C | Sample Result or QC discussed in the Case Narrative | DF | Dilution Factor |
| E | TPH pattern not Gas or Diesel Range Pattern | J | Analyte detected between MDL and RL |
| MDL | Method Detection Limit | ND | Not Detected at the Method Detection Limit |
| RL | Reporting Limit | S | Spike Recovery outside control limits |

Page 3 of 8

DHL Analytical, Inc.

Date: 06-Jul-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR (56830)
Lab Order: 1706277

Client Sample ID: MW-9A
Lab ID: 1706277-04
Alternate ID: S17173074C
Collection Date: 06/21/17 10:44 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: RO | | | |
| Dissolved Lithium | 0.00650 | 0.00500 | 0.0100 | J | mg/L | 1 | 07/05/17 12:49 PM |
| Dissolved Molybdenum | 0.0745 | 0.00200 | 0.00500 | | mg/L | 1 | 06/30/17 12:51 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: RO | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 07/03/17 03:58 PM |
| Arsenic | 0.0100 | 0.00200 | 0.00500 | | mg/L | 1 | 07/03/17 03:58 PM |
| Barium | 0.128 | 0.00300 | 0.0100 | | mg/L | 1 | 07/03/17 03:58 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/03/17 03:58 PM |
| Boron | 3.68 | 0.100 | 0.300 | | mg/L | 10 | 07/05/17 12:01 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/03/17 03:58 PM |
| Calcium | 75.6 | 1.00 | 3.00 | | mg/L | 10 | 07/05/17 12:01 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/03/17 03:58 PM |
| Cobalt | 0.00316 | 0.00300 | 0.00500 | J | mg/L | 1 | 07/03/17 03:58 PM |
| Lead | 0.00257 | 0.000300 | 0.00100 | | mg/L | 1 | 07/03/17 03:58 PM |
| Lithium | 0.00689 | 0.00500 | 0.0100 | J | mg/L | 1 | 07/05/17 01:34 PM |
| Magnesium | 8.85 | 0.100 | 0.300 | | mg/L | 1 | 07/03/17 03:58 PM |
| Molybdenum | 0.0804 | 0.00200 | 0.00500 | | mg/L | 1 | 07/03/17 03:58 PM |
| Potassium | 0.827 | 0.100 | 0.300 | | mg/L | 1 | 07/03/17 03:58 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/03/17 03:58 PM |
| Sodium | 65.3 | 1.00 | 3.00 | | mg/L | 10 | 07/05/17 12:01 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 07/03/17 03:58 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 06/30/17 11:39 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 137 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/27/17 11:36 AM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/27/17 11:36 AM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/27/17 11:36 AM |
| Alkalinity, Total (As CaCO3) | 137 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/27/17 11:36 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern J Analyte detected between MDL and RL
 MDL Method Detection Limit ND Not Detected at the Method Detection Limit
 RL Reporting Limit S Spike Recovery outside control limits Page 4 of 8

DHL Analytical, Inc.

Date: 06-Jul-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (56830)
Lab Order: 1706277

Client Sample ID: DUP 2
Lab ID: 1706277-05
Alternate ID: S17173074D
Collection Date: 06/21/17
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|--------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: RO | | | |
| Dissolved Lithium | 0.0137 | 0.00500 | 0.0100 | | mg/L | 1 | 07/05/17 12:51 PM |
| Dissolved Molybdenum | 0.00762 | 0.00200 | 0.00500 | | mg/L | 1 | 06/30/17 12:53 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: RO | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 07/03/17 03:59 PM |
| Arsenic | 0.0199 | 0.00200 | 0.00500 | | mg/L | 1 | 07/03/17 03:59 PM |
| Barium | 0.0834 | 0.00300 | 0.0100 | | mg/L | 1 | 07/03/17 03:59 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/03/17 03:59 PM |
| Boron | 1.23 | 0.0100 | 0.0300 | | mg/L | 1 | 07/03/17 03:59 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/03/17 03:59 PM |
| Calcium | 68.8 | 1.00 | 3.00 | | mg/L | 10 | 07/05/17 12:03 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/03/17 03:59 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 07/03/17 03:59 PM |
| Lead | 0.00229 | 0.000300 | 0.00100 | | mg/L | 1 | 07/03/17 03:59 PM |
| Lithium | 0.0143 | 0.00500 | 0.0100 | | mg/L | 1 | 07/05/17 01:36 PM |
| Magnesium | 4.03 | 0.100 | 0.300 | | mg/L | 1 | 07/03/17 03:59 PM |
| Molybdenum | 0.00802 | 0.00200 | 0.00500 | | mg/L | 1 | 07/03/17 03:59 PM |
| Potassium | 1.45 | 0.100 | 0.300 | | mg/L | 1 | 07/03/17 03:59 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/03/17 03:59 PM |
| Sodium | 63.9 | 1.00 | 3.00 | | mg/L | 10 | 07/05/17 12:03 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 07/03/17 03:59 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 06/30/17 11:42 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 144 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/27/17 11:42 AM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/27/17 11:42 AM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/27/17 11:42 AM |
| Alkalinity, Total (As CaCO3) | 144 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/27/17 11:42 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern J Analyte detected between MDL and RL
 MDL Method Detection Limit ND Not Detected at the Method Detection Limit
 RL Reporting Limit S Spike Recovery outside control limits Page 5 of 8

DHL Analytical, Inc.

Date: 06-Jul-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (56830)
Lab Order: 1706277

Client Sample ID: MW-5
Lab ID: 1706277-06
Alternate ID: S17173074E
Collection Date: 06/21/17 11:12 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: RO | | | |
| Dissolved Lithium | 0.0196 | 0.00500 | 0.0100 | | mg/L | 1 | 07/05/17 10:59 AM |
| Dissolved Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/05/17 10:59 AM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: RO | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 07/03/17 02:55 PM |
| Arsenic | 0.00917 | 0.00200 | 0.00500 | | mg/L | 1 | 07/03/17 02:55 PM |
| Barium | 0.0767 | 0.00300 | 0.0100 | | mg/L | 1 | 07/03/17 02:55 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/03/17 02:55 PM |
| Boron | 0.122 | 0.0100 | 0.0300 | | mg/L | 1 | 07/03/17 02:55 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/03/17 02:55 PM |
| Calcium | 124 | 1.00 | 3.00 | | mg/L | 10 | 07/05/17 11:50 AM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/03/17 02:55 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 07/03/17 02:55 PM |
| Lead | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/03/17 02:55 PM |
| Lithium | 0.0197 | 0.00500 | 0.0100 | | mg/L | 1 | 07/05/17 01:25 PM |
| Magnesium | 23.3 | 0.100 | 0.300 | | mg/L | 1 | 07/03/17 02:55 PM |
| Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/03/17 02:55 PM |
| Potassium | 1.44 | 0.100 | 0.300 | | mg/L | 1 | 07/03/17 02:55 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/03/17 02:55 PM |
| Sodium | 129 | 1.00 | 3.00 | | mg/L | 10 | 07/05/17 11:50 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 07/03/17 02:55 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 06/30/17 11:44 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 286 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/27/17 11:53 AM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/27/17 11:53 AM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/27/17 11:53 AM |
| Alkalinity, Total (As CaCO3) | 286 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/27/17 11:53 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 06-Jul-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR (56830)
Lab Order: 1706277

Client Sample ID: MW-10
Lab ID: 1706277-07
Alternate ID: S17173074F
Collection Date: 06/21/17 01:38 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: RO | | | |
| Dissolved Lithium | 0.0139 | 0.00500 | 0.0100 | | mg/L | 1 | 07/05/17 12:53 PM |
| Dissolved Molybdenum | 0.108 | 0.00200 | 0.00500 | | mg/L | 1 | 06/30/17 12:55 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: RO | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 07/03/17 04:01 PM |
| Arsenic | 0.0149 | 0.00200 | 0.00500 | | mg/L | 1 | 07/03/17 04:01 PM |
| Barium | 0.0540 | 0.00300 | 0.0100 | | mg/L | 1 | 07/03/17 04:01 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/03/17 04:01 PM |
| Boron | 9.22 | 0.500 | 1.50 | | mg/L | 50 | 07/05/17 12:05 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/03/17 04:01 PM |
| Calcium | 60.7 | 5.00 | 15.0 | | mg/L | 50 | 07/05/17 12:05 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/03/17 04:01 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 07/03/17 04:01 PM |
| Lead | 0.000503 | 0.000300 | 0.00100 | J | mg/L | 1 | 07/03/17 04:01 PM |
| Lithium | 0.0133 | 0.00500 | 0.0100 | | mg/L | 1 | 07/05/17 01:37 PM |
| Magnesium | 9.96 | 0.100 | 0.300 | | mg/L | 1 | 07/03/17 04:01 PM |
| Molybdenum | 0.113 | 0.00200 | 0.00500 | | mg/L | 1 | 07/03/17 04:01 PM |
| Potassium | 0.751 | 0.100 | 0.300 | | mg/L | 1 | 07/03/17 04:01 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/03/17 04:01 PM |
| Sodium | 138 | 5.00 | 15.0 | | mg/L | 50 | 07/05/17 12:05 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 07/03/17 04:01 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 06/30/17 11:55 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 241 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/27/17 02:06 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/27/17 02:06 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/27/17 02:06 PM |
| Alkalinity, Total (As CaCO3) | 241 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/27/17 02:06 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 06-Jul-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (56830)
Lab Order: 1706277

Client Sample ID: MW-10A
Lab ID: 1706277-08
Alternate ID: S17173074G
Collection Date: 06/21/17 02:45 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|------|----------------|----|---------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | | | | Analyst: RO |
| Dissolved Lithium | 0.0264 | 0.00500 | 0.0100 | | mg/L | 1 | 07/05/17 12:54 PM |
| Dissolved Molybdenum | 0.00256 | 0.00200 | 0.00500 | J | mg/L | 1 | 06/30/17 12:56 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | | | | Analyst: RO |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 07/03/17 04:03 PM |
| Arsenic | 0.00481 | 0.00200 | 0.00500 | J | mg/L | 1 | 07/03/17 04:03 PM |
| Barium | 0.0943 | 0.00300 | 0.0100 | | mg/L | 1 | 07/03/17 04:03 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/03/17 04:03 PM |
| Boron | 0.427 | 0.0100 | 0.0300 | | mg/L | 1 | 07/03/17 04:03 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/03/17 04:03 PM |
| Calcium | 180 | 5.00 | 15.0 | | mg/L | 50 | 07/05/17 12:06 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/03/17 04:03 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 07/03/17 04:03 PM |
| Lead | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/03/17 04:03 PM |
| Lithium | 0.0279 | 0.00500 | 0.0100 | | mg/L | 1 | 07/05/17 01:39 PM |
| Magnesium | 30.7 | 5.00 | 15.0 | | mg/L | 50 | 07/05/17 12:06 PM |
| Molybdenum | 0.00283 | 0.00200 | 0.00500 | J | mg/L | 1 | 07/03/17 04:03 PM |
| Potassium | 1.65 | 0.100 | 0.300 | | mg/L | 1 | 07/03/17 04:03 PM |
| Selenium | 0.00207 | 0.00200 | 0.00500 | J | mg/L | 1 | 07/03/17 04:03 PM |
| Sodium | 180 | 5.00 | 15.0 | | mg/L | 50 | 07/05/17 12:06 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 07/03/17 04:03 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | | | Analyst: AH |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 06/30/17 11:58 AM |
| ALKALINITY | | M2320 B | | | | | Analyst: BTJ |
| Alkalinity, Bicarbonate (As CaCO3) | 338 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/27/17 02:20 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/27/17 02:20 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/27/17 02:20 PM |
| Alkalinity, Total (As CaCO3) | 338 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/27/17 02:20 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 06-Jul-17

CLIENT: B-Environmental
Work Order: 1706277
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_170630A

The QC data in batch 81195 applies to the following samples: 1706277-01A, 1706277-02A, 1706277-03A, 1706277-04A, 1706277-05A, 1706277-06A, 1706277-07A, 1706277-08A

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|---------------------------|----------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID MB-81195 | Batch ID: 81195 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: MBLK | Run ID: CETAC2_HG_170630A | Analysis Date: 6/30/2017 11:21:45 AM | Prep Date: 6/29/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

Mercury <0.0000800 0.000200

| | | | | | | | | | | |
|----------------------------|----------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID LCS-81195 | Batch ID: 81195 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: LCS | Run ID: CETAC2_HG_170630A | Analysis Date: 6/30/2017 11:24:01 AM | Prep Date: 6/29/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

Mercury 0.00199 0.000200 0.00200 0 99.5 85 115

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|-----------------------------|----------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID LCSD-81195 | Batch ID: 81195 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: LCSD | Run ID: CETAC2_HG_170630A | Analysis Date: 6/30/2017 11:26:17 AM | Prep Date: 6/29/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

Mercury 0.00208 0.000200 0.00200 0 104 85 115 4.42 15

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|---------------------------------|----------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1706277-06A SD | Batch ID: 81195 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: SD | Run ID: CETAC2_HG_170630A | Analysis Date: 6/30/2017 11:46:40 AM | Prep Date: 6/29/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

Mercury <0.000400 0.00100 0 0 0 0 10

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|----------------------------------|----------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1706277-06A PDS | Batch ID: 81195 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: PDS | Run ID: CETAC2_HG_170630A | Analysis Date: 6/30/2017 11:48:56 AM | Prep Date: 6/29/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

Mercury 0.00231 0.000200 0.00250 0 92.4 85 115

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|---------------------------------|----------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1706277-06A MS | Batch ID: 81195 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: MS | Run ID: CETAC2_HG_170630A | Analysis Date: 6/30/2017 11:51:12 AM | Prep Date: 6/29/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

Mercury 0.00194 0.000200 0.00200 0 97.0 80 120

| | | | | | | | | | | |
|----------------------------------|----------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1706277-06A MSD | Batch ID: 81195 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: MSD | Run ID: CETAC2_HG_170630A | Analysis Date: 6/30/2017 11:53:28 AM | Prep Date: 6/29/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

Mercury 0.00192 0.000200 0.00200 0 96.0 80 120 1.04 15

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706277
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170630A

The QC data in batch 81153 applies to the following samples: 1706277-01B, 1706277-02B, 1706277-03B, 1706277-04B, 1706277-05B, 1706277-06B, 1706277-07B, 1706277-08B

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|------------|-----------------|-----------|------------------------|----------------|------------------------------|------------|------------------|------|----------|------|
| Sample ID | MB-81153 | Batch ID: | 81153 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | MBLK | Run ID: | ICP-MS5_170630A | Analysis Date: | 6/30/2017 11:47:00 AM | Prep Date: | 6/29/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | <0.00500 | 0.0100 | | | | | | | | |
| Molybdenum | <0.00200 | 0.00500 | | | | | | | | |

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|------------|------------------|-----------|------------------------|----------------|------------------------------|------------|------------------|------|----------|------|
| Sample ID | LCS-81153 | Batch ID: | 81153 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | LCS | Run ID: | ICP-MS5_170630A | Analysis Date: | 6/30/2017 11:49:00 AM | Prep Date: | 6/29/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.214 | 0.0100 | 0.200 | 0 | 107 | 80 | 120 | | | |
| Molybdenum | 0.188 | 0.00500 | 0.200 | 0 | 93.8 | 80 | 120 | | | |

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|------------|-------------------|-----------|------------------------|----------------|------------------------------|------------|------------------|-------|----------|------|
| Sample ID | LCSD-81153 | Batch ID: | 81153 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | LCSD | Run ID: | ICP-MS5_170630A | Analysis Date: | 6/30/2017 11:51:00 AM | Prep Date: | 6/29/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.215 | 0.0100 | 0.200 | 0 | 108 | 80 | 120 | 0.739 | 15 | |
| Molybdenum | 0.192 | 0.00500 | 0.200 | 0 | 95.9 | 80 | 120 | 2.14 | 15 | |

| | | | | | | | | | | |
|----------------------|-----------------------|-----------|------------------------|----------------|------------------------------|------------|------------------|------|----------|------|
| Sample ID | 1706277-06B MS | Batch ID: | 81153 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | MS | Run ID: | ICP-MS5_170630A | Analysis Date: | 6/30/2017 12:17:00 PM | Prep Date: | 6/29/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Dissolved Lithium | 0.209 | 0.500 | 0.200 | 0 | 105 | 80 | 120 | | | |
| Dissolved Molybdenum | 0.188 | 0.250 | 0.200 | 0 | 93.8 | 80 | 120 | | | |

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|----------------------|------------------------|-----------|------------------------|----------------|------------------------------|------------|------------------|-------|----------|------|
| Sample ID | 1706277-06B MSD | Batch ID: | 81153 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | MSD | Run ID: | ICP-MS5_170630A | Analysis Date: | 6/30/2017 12:19:00 PM | Prep Date: | 6/29/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Dissolved Lithium | 0.265 | 0.500 | 0.200 | 0 | 133 | 80 | 120 | 23.5 | 15 | SR |
| Dissolved Molybdenum | 0.188 | 0.250 | 0.200 | 0 | 93.8 | 80 | 120 | 0.026 | 15 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706277
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170703B

The QC data in batch 81152 applies to the following samples: 1706277-01A, 1706277-02A, 1706277-03A, 1706277-04A, 1706277-05A, 1706277-06A, 1706277-07A, 1706277-08A

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|---------------------------|--------------------------------|---|-----------------------------|
| Sample ID MB-81152 | Batch ID: 81152 | TestNo: SW6020A | Units: mg/L |
| SampType: MBLK | Run ID: ICP-MS5_170703B | Analysis Date: 7/3/2017 2:47:00 PM | Prep Date: 6/28/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|-----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | <0.000800 | 0.00250 | | | | | | | | |
| Arsenic | <0.00200 | 0.00500 | | | | | | | | |
| Barium | <0.00300 | 0.0100 | | | | | | | | |
| Beryllium | <0.000300 | 0.00100 | | | | | | | | |
| Boron | <0.0100 | 0.0300 | | | | | | | | |
| Cadmium | <0.000300 | 0.00100 | | | | | | | | |
| Calcium | <0.100 | 0.300 | | | | | | | | |
| Chromium | <0.00200 | 0.00500 | | | | | | | | |
| Cobalt | <0.00300 | 0.00500 | | | | | | | | |
| Lead | <0.000300 | 0.00100 | | | | | | | | |
| Magnesium | <0.100 | 0.300 | | | | | | | | |
| Molybdenum | <0.00200 | 0.00500 | | | | | | | | |
| Potassium | <0.100 | 0.300 | | | | | | | | |
| Selenium | <0.00200 | 0.00500 | | | | | | | | |
| Sodium | <0.100 | 0.300 | | | | | | | | |
| Thallium | <0.000500 | 0.00150 | | | | | | | | |

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|----------------------------|--------------------------------|---|-----------------------------|
| Sample ID LCS-81152 | Batch ID: 81152 | TestNo: SW6020A | Units: mg/L |
| SampType: LCS | Run ID: ICP-MS5_170703B | Analysis Date: 7/3/2017 2:49:00 PM | Prep Date: 6/28/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.205 | 0.00250 | 0.200 | 0 | 103 | 80 | 120 | | | |
| Arsenic | 0.202 | 0.00500 | 0.200 | 0 | 101 | 80 | 120 | | | |
| Barium | 0.211 | 0.0100 | 0.200 | 0 | 105 | 80 | 120 | | | |
| Beryllium | 0.216 | 0.00100 | 0.200 | 0 | 108 | 80 | 120 | | | |
| Boron | 0.211 | 0.0300 | 0.200 | 0 | 106 | 80 | 120 | | | |
| Cadmium | 0.215 | 0.00100 | 0.200 | 0 | 108 | 80 | 120 | | | |
| Calcium | 5.17 | 0.300 | 5.00 | 0 | 103 | 80 | 120 | | | |
| Chromium | 0.206 | 0.00500 | 0.200 | 0 | 103 | 80 | 120 | | | |
| Cobalt | 0.209 | 0.00500 | 0.200 | 0 | 105 | 80 | 120 | | | |
| Lead | 0.196 | 0.00100 | 0.200 | 0 | 97.8 | 80 | 120 | | | |
| Magnesium | 5.17 | 0.300 | 5.00 | 0 | 103 | 80 | 120 | | | |
| Molybdenum | 0.209 | 0.00500 | 0.200 | 0 | 104 | 80 | 120 | | | |
| Potassium | 4.86 | 0.300 | 5.00 | 0 | 97.1 | 80 | 120 | | | |
| Selenium | 0.201 | 0.00500 | 0.200 | 0 | 100 | 80 | 120 | | | |
| Sodium | 5.32 | 0.300 | 5.00 | 0 | 106 | 80 | 120 | | | |
| Thallium | 0.198 | 0.00150 | 0.200 | 0 | 98.8 | 80 | 120 | | | |

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|--|--|
| <p>Qualifiers: B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p> | <p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAC certified</p> |
|--|--|

CLIENT: B-Environmental
Work Order: 1706277
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170703B

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|-----------|------------|-----------|-----------------|----------------|---------------------|------------|-----------|
| Sample ID | LCSD-81152 | Batch ID: | 81152 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | LCSD | Run ID: | ICP-MS5_170703B | Analysis Date: | 7/3/2017 2:51:00 PM | Prep Date: | 6/28/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | 0.207 | 0.00250 | 0.200 | 0 | 103 | 80 | 120 | 0.738 | 15 | |
| Arsenic | 0.203 | 0.00500 | 0.200 | 0 | 102 | 80 | 120 | 0.488 | 15 | |
| Barium | 0.208 | 0.0100 | 0.200 | 0 | 104 | 80 | 120 | 1.18 | 15 | |
| Beryllium | 0.214 | 0.00100 | 0.200 | 0 | 107 | 80 | 120 | 0.937 | 15 | |
| Boron | 0.210 | 0.0300 | 0.200 | 0 | 105 | 80 | 120 | 0.533 | 15 | |
| Cadmium | 0.214 | 0.00100 | 0.200 | 0 | 107 | 80 | 120 | 0.787 | 15 | |
| Calcium | 5.21 | 0.300 | 5.00 | 0 | 104 | 80 | 120 | 0.724 | 15 | |
| Chromium | 0.207 | 0.00500 | 0.200 | 0 | 104 | 80 | 120 | 0.466 | 15 | |
| Cobalt | 0.212 | 0.00500 | 0.200 | 0 | 106 | 80 | 120 | 1.15 | 15 | |
| Lead | 0.197 | 0.00100 | 0.200 | 0 | 98.3 | 80 | 120 | 0.540 | 15 | |
| Magnesium | 5.17 | 0.300 | 5.00 | 0 | 103 | 80 | 120 | 0.005 | 15 | |
| Molybdenum | 0.208 | 0.00500 | 0.200 | 0 | 104 | 80 | 120 | 0.620 | 15 | |
| Potassium | 4.87 | 0.300 | 5.00 | 0 | 97.4 | 80 | 120 | 0.260 | 15 | |
| Selenium | 0.199 | 0.00500 | 0.200 | 0 | 99.5 | 80 | 120 | 0.800 | 15 | |
| Sodium | 5.32 | 0.300 | 5.00 | 0 | 106 | 80 | 120 | 0.029 | 15 | |
| Thallium | 0.199 | 0.00150 | 0.200 | 0 | 99.6 | 80 | 120 | 0.765 | 15 | |

| | | | | | | | |
|-----------|----------------|-----------|-----------------|----------------|---------------------|------------|-----------|
| Sample ID | 1706277-06A SD | Batch ID: | 81152 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | SD | Run ID: | ICP-MS5_170703B | Analysis Date: | 7/3/2017 2:56:00 PM | Prep Date: | 6/28/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | <0.00400 | 0.0125 | 0 | 0 | | | | 0 | 10 | |
| Arsenic | <0.0100 | 0.0250 | 0 | 0.00917 | | | | 0 | 10 | |
| Barium | 0.0743 | 0.0500 | 0 | 0.0767 | | | | 3.18 | 10 | |
| Beryllium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Boron | 0.140 | 0.150 | 0 | 0.122 | | | | 14.3 | 10 | R |
| Cadmium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Chromium | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Cobalt | <0.0150 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Lead | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Magnesium | 23.7 | 1.50 | 0 | 23.3 | | | | 1.84 | 10 | |
| Molybdenum | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Potassium | 1.45 | 1.50 | 0 | 1.44 | | | | 1.05 | 10 | |
| Selenium | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Thallium | <0.00250 | 0.00750 | 0 | 0 | | | | 0 | 10 | |

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|---------------------|------------|-----------|
| Sample ID | 1706277-06A PDS | Batch ID: | 81152 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | PDS | Run ID: | ICP-MS5_170703B | Analysis Date: | 7/3/2017 3:21:00 PM | Prep Date: | 6/28/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.201 | 0.00250 | 0.200 | 0 | 101 | 80 | 120 | | | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706277
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170703B

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|---------------------|------------|-----------|
| Sample ID | 1706277-06A PDS | Batch ID: | 81152 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | PDS | Run ID: | ICP-MS5_170703B | Analysis Date: | 7/3/2017 3:21:00 PM | Prep Date: | 6/28/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Arsenic | 0.206 | 0.00500 | 0.200 | 0.00917 | 98.6 | 80 | 120 | | | |
| Barium | 0.268 | 0.0100 | 0.200 | 0.0767 | 95.8 | 80 | 120 | | | |
| Beryllium | 0.218 | 0.00100 | 0.200 | 0 | 109 | 80 | 120 | | | |
| Boron | 0.360 | 0.0300 | 0.200 | 0.122 | 119 | 80 | 120 | | | |
| Cadmium | 0.204 | 0.00100 | 0.200 | 0 | 102 | 80 | 120 | | | |
| Chromium | 0.209 | 0.00500 | 0.200 | 0 | 105 | 80 | 120 | | | |
| Cobalt | 0.201 | 0.00500 | 0.200 | 0 | 101 | 80 | 120 | | | |
| Lead | 0.194 | 0.00100 | 0.200 | 0 | 96.8 | 80 | 120 | | | |
| Magnesium | 27.5 | 0.300 | 5.00 | 23.3 | 84.4 | 80 | 120 | | | |
| Molybdenum | 0.198 | 0.00500 | 0.200 | 0 | 99.0 | 80 | 120 | | | |
| Potassium | 5.99 | 0.300 | 5.00 | 1.44 | 91.1 | 80 | 120 | | | |
| Selenium | 0.185 | 0.00500 | 0.200 | 0 | 92.6 | 80 | 120 | | | |
| Thallium | 0.194 | 0.00150 | 0.200 | 0 | 97.0 | 80 | 120 | | | |

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|-----------|----------------|-----------|-----------------|----------------|---------------------|------------|-----------|
| Sample ID | 1706277-06A MS | Batch ID: | 81152 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | MS | Run ID: | ICP-MS5_170703B | Analysis Date: | 7/3/2017 3:23:00 PM | Prep Date: | 6/28/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.214 | 0.00250 | 0.200 | 0 | 107 | 80 | 120 | | | |
| Arsenic | 0.207 | 0.00500 | 0.200 | 0.00917 | 98.7 | 80 | 120 | | | |
| Barium | 0.288 | 0.0100 | 0.200 | 0.0767 | 106 | 80 | 120 | | | |
| Beryllium | 0.216 | 0.00100 | 0.200 | 0 | 108 | 80 | 120 | | | |
| Boron | 0.338 | 0.0300 | 0.200 | 0.122 | 108 | 80 | 120 | | | |
| Cadmium | 0.214 | 0.00100 | 0.200 | 0 | 107 | 80 | 120 | | | |
| Calcium | 126 | 0.300 | 5.00 | 126 | 2.44 | 80 | 120 | | | S |
| Chromium | 0.203 | 0.00500 | 0.200 | 0 | 102 | 80 | 120 | | | |
| Cobalt | 0.200 | 0.00500 | 0.200 | 0 | 99.8 | 80 | 120 | | | |
| Lead | 0.195 | 0.00100 | 0.200 | 0 | 97.4 | 80 | 120 | | | |
| Magnesium | 27.6 | 0.300 | 5.00 | 23.3 | 87.1 | 80 | 120 | | | |
| Molybdenum | 0.216 | 0.00500 | 0.200 | 0 | 108 | 80 | 120 | | | |
| Potassium | 6.09 | 0.300 | 5.00 | 1.44 | 93.1 | 80 | 120 | | | |
| Selenium | 0.191 | 0.00500 | 0.200 | 0 | 95.4 | 80 | 120 | | | |
| Sodium | 127 | 0.300 | 5.00 | 127 | 12.9 | 80 | 120 | | | S |
| Thallium | 0.198 | 0.00150 | 0.200 | 0 | 99.0 | 80 | 120 | | | |

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|---------------------|------------|-----------|
| Sample ID | 1706277-06A MSD | Batch ID: | 81152 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | MSD | Run ID: | ICP-MS5_170703B | Analysis Date: | 7/3/2017 3:25:00 PM | Prep Date: | 6/28/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.211 | 0.00250 | 0.200 | 0 | 105 | 80 | 120 | 1.61 | 15 | |
| Arsenic | 0.204 | 0.00500 | 0.200 | 0.00917 | 97.2 | 80 | 120 | 1.39 | 15 | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental

Work Order: 1706277

Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170703B

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|---------------------|------------|-----------|
| Sample ID | 1706277-06A MSD | Batch ID: | 81152 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | MSD | Run ID: | ICP-MS5_170703B | Analysis Date: | 7/3/2017 3:25:00 PM | Prep Date: | 6/28/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|-------|----------|-----------|-------|----------|------|
| Barium | 0.283 | 0.0100 | 0.200 | 0.0767 | 103 | 80 | 120 | 1.84 | 15 | |
| Beryllium | 0.215 | 0.00100 | 0.200 | 0 | 107 | 80 | 120 | 0.451 | 15 | |
| Boron | 0.348 | 0.0300 | 0.200 | 0.122 | 113 | 80 | 120 | 2.72 | 15 | |
| Cadmium | 0.211 | 0.00100 | 0.200 | 0 | 105 | 80 | 120 | 1.70 | 15 | |
| Calcium | 124 | 0.300 | 5.00 | 126 | -40.7 | 80 | 120 | 1.73 | 15 | S |
| Chromium | 0.202 | 0.00500 | 0.200 | 0 | 101 | 80 | 120 | 0.581 | 15 | |
| Cobalt | 0.200 | 0.00500 | 0.200 | 0 | 100 | 80 | 120 | 0.144 | 15 | |
| Lead | 0.192 | 0.00100 | 0.200 | 0 | 95.8 | 80 | 120 | 1.72 | 15 | |
| Magnesium | 27.3 | 0.300 | 5.00 | 23.3 | 80.6 | 80 | 120 | 1.18 | 15 | |
| Molybdenum | 0.212 | 0.00500 | 0.200 | 0 | 106 | 80 | 120 | 1.83 | 15 | |
| Potassium | 5.98 | 0.300 | 5.00 | 1.44 | 91.0 | 80 | 120 | 1.75 | 15 | |
| Selenium | 0.190 | 0.00500 | 0.200 | 0 | 94.8 | 80 | 120 | 0.609 | 15 | |
| Sodium | 127 | 0.300 | 5.00 | 127 | 5.50 | 80 | 120 | 0.290 | 15 | S |
| Thallium | 0.194 | 0.00150 | 0.200 | 0 | 97.0 | 80 | 120 | 2.06 | 15 | |

| | | | | |
|--------------------|----|---|-----|---------------------------------------|
| Qualifiers: | B | Analyte detected in the associated Method Blank | DF | Dilution Factor |
| | J | Analyte detected between MDL and RL | MDL | Method Detection Limit |
| | ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| | RL | Reporting Limit | S | Spike Recovery outside control limits |
| | J | Analyte detected between SDL and RL | N | Parameter not NELAC certified |

CLIENT: B-Environmental
Work Order: 1706277
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170705A

The QC data in batch 81152 applies to the following samples: 1706277-01A, 1706277-02A, 1706277-03A, 1706277-04A, 1706277-05A, 1706277-06A, 1706277-07A, 1706277-08A

| | | | | | | | | | | |
|---------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID MB-81152 | Batch ID: 81152 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: MBLK | Run ID: ICP-MS5_170705A | Analysis Date: 7/5/2017 11:43:00 AM | Prep Date: 6/28/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | <0.00500 | 0.0100 | | | | | | | | |

| | | | | | | | | | | |
|----------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID LCS-81152 | Batch ID: 81152 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: LCS | Run ID: ICP-MS5_170705A | Analysis Date: 7/5/2017 11:45:00 AM | Prep Date: 6/28/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.211 | 0.0100 | 0.200 | 0 | 105 | 80 | 120 | | | |

| | | | | | | | | | | |
|-----------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|-------|----------|------|
| Sample ID LCSD-81152 | Batch ID: 81152 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: LCSD | Run ID: ICP-MS5_170705A | Analysis Date: 7/5/2017 11:47:00 AM | Prep Date: 6/28/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.209 | 0.0100 | 0.200 | 0 | 104 | 80 | 120 | 0.918 | 15 | |

| | | | | | | | | | | |
|---------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1706277-06A SD | Batch ID: 81152 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: SD | Run ID: ICP-MS5_170705A | Analysis Date: 7/5/2017 11:52:00 AM | Prep Date: 6/28/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Calcium | 128 | 15.0 | 0 | 124 | | | | 2.63 | 10 | |
| Sodium | 130 | 15.0 | 0 | 128 | | | | 1.10 | 10 | |

| | | | | | | | | | | |
|----------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1706277-06A PDS | Batch ID: 81152 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: PDS | Run ID: ICP-MS5_170705A | Analysis Date: 7/5/2017 12:10:00 PM | Prep Date: 6/28/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Calcium | 172 | 3.00 | 50.0 | 124 | 95.0 | 80 | 120 | | | |
| Sodium | 178 | 3.00 | 50.0 | 129 | 99.4 | 80 | 120 | | | |

| | | | | | | | | | | |
|---------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1706277-06A MS | Batch ID: 81152 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: MS | Run ID: ICP-MS5_170705A | Analysis Date: 7/5/2017 12:12:00 PM | Prep Date: 6/28/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.231 | 0.100 | 0.200 | 0 | 116 | 80 | 120 | | | |

| | | | | | | | | | | |
|----------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1706277-06A MSD | Batch ID: 81152 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: MSD | Run ID: ICP-MS5_170705A | Analysis Date: 7/5/2017 12:14:00 PM | Prep Date: 6/28/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.236 | 0.100 | 0.200 | 0 | 118 | 80 | 120 | 2.19 | 15 | |

- | | |
|--|---|
| <p>Qualifiers:</p> <ul style="list-style-type: none"> B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | <ul style="list-style-type: none"> DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified |
|--|---|

CLIENT: B-Environmental
Work Order: 1706277
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170705A

| | | | | | | | |
|-----------|----------------|-----------|-----------------|----------------|---------------------|------------|---------------------------------------|
| Sample ID | 1706277-06A SD | Batch ID: | 81152 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | SD | Run ID: | ICP-MS5_170705A | Analysis Date: | 7/5/2017 1:27:00 PM | Prep Date: | 6/28/2017 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit HighLimit %RPD RPDLimit Qual |

| | | | | | | | |
|---------|---------|--------|---|--------|--|--|------|
| Lithium | <0.0250 | 0.0500 | 0 | 0.0197 | | | 0 10 |
|---------|---------|--------|---|--------|--|--|------|

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|---------------------|------------|---------------------------------------|
| Sample ID | 1706277-06A PDS | Batch ID: | 81152 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | PDS | Run ID: | ICP-MS5_170705A | Analysis Date: | 7/5/2017 1:45:00 PM | Prep Date: | 6/28/2017 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit HighLimit %RPD RPDLimit Qual |

| | | | | | | |
|---------|-------|--------|-------|--------|-----|--------|
| Lithium | 0.223 | 0.0100 | 0.200 | 0.0197 | 101 | 80 120 |
|---------|-------|--------|-------|--------|-----|--------|

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL

DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental

Work Order: 1706277

Project: Coieto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170705A

The QC data in batch 81153 applies to the following samples: 1706277-01B, 1706277-02B, 1706277-03B, 1706277-04B, 1706277-05B, 1706277-06B, 1706277-07B, 1706277-08B

| | | | | | | | |
|-----------|----------------|-----------|-----------------|----------------|----------------------|------------|-----------|
| Sample ID | 1706277-06B SD | Batch ID: | 81153 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | SD | Run ID: | ICP-MS5_170705A | Analysis Date: | 7/5/2017 11:01:00 AM | Prep Date: | 6/29/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|---------|--------|-----------|---------|------|----------|-----------|------|----------|------|
| Lithium | <0.0250 | 0.0500 | 0 | 0.0196 | | | | 0 | 10 | |
| Molybdenum | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|
| Sample ID | 1706277-06B PDS | Batch ID: | 81153 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | PDS | Run ID: | ICP-MS5_170705A | Analysis Date: | 7/5/2017 11:19:00 AM | Prep Date: | 6/29/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Lithium | 0.209 | 0.0100 | 0.200 | 0.0196 | 94.4 | 80 | 120 | | | |
| Molybdenum | 0.182 | 0.00500 | 0.200 | 0 | 90.9 | 80 | 120 | | | |

- | | | |
|--------------------|---|---|
| Qualifiers: | B Analyte detected in the associated Method Blank | DF Dilution Factor |
| | J Analyte detected between MDL and RL | MDL Method Detection Limit |
| | ND Not Detected at the Method Detection Limit | R RPD outside accepted control limits |
| | RL Reporting Limit | S Spike Recovery outside control limits |
| | J Analyte detected between SDL and RL | N Parameter not NELAC certified |

CLIENT: B-Environmental

Work Order: 1706277

Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_170627A

The QC data in batch 81132 applies to the following samples: 1706277-01C, 1706277-02C, 1706277-03C, 1706277-04C, 1706277-05C, 1706277-06C, 1706277-07C, 1706277-08C

| Sample ID MB-81132 | Batch ID: 81132 | TestNo: M2320 B | Units: mg/L @ pH 4.27 | | | | | | | |
|------------------------------------|---------------------------------|--|------------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: MBLK | Run ID: TITRATOR_170627A | Analysis Date: 6/27/2017 8:13:00 AM | Prep Date: 6/27/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Alkalinity, Bicarbonate (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Total (As CaCO3) | <20.0 | 20.0 | | | | | | | | |

| Sample ID LCS-81132 | Batch ID: 81132 | TestNo: M2320 B | Units: mg/L @ pH 4.14 | | | | | | | |
|------------------------------|---------------------------------|--|------------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: LCS | Run ID: TITRATOR_170627A | Analysis Date: 6/27/2017 8:26:00 AM | Prep Date: 6/27/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Alkalinity, Total (As CaCO3) | 52.9 | 20.0 | 50.00 | 0 | 106 | 74 | 129 | | | |

| Sample ID 1706261-03C-DUP | Batch ID: 81132 | TestNo: M2320 B | Units: mg/L @ pH 4.52 | | | | | | | |
|------------------------------------|---------------------------------|--|------------------------------|---------|------|----------|-----------|-------|----------|------|
| SampType: DUP | Run ID: TITRATOR_170627A | Analysis Date: 6/27/2017 9:35:00 AM | Prep Date: 6/27/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Alkalinity, Bicarbonate (As CaCO3) | 239 | 20.0 | 0 | 240.3 | | | | 0.626 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | 239 | 20.0 | 0 | 240.3 | | | | 0.626 | 20 | |

| Sample ID 1706277-06C-DUP | Batch ID: 81132 | TestNo: M2320 B | Units: mg/L @ pH 4.52 | | | | | | | |
|------------------------------------|---------------------------------|---|------------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: DUP | Run ID: TITRATOR_170627A | Analysis Date: 6/27/2017 12:04:00 PM | Prep Date: 6/27/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Alkalinity, Bicarbonate (As CaCO3) | 281 | 20.0 | 0 | 286.2 | | | | 1.98 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | 281 | 20.0 | 0 | 286.2 | | | | 1.98 | 20 | |

| | |
|---|--|
| <p>Qualifiers:</p> <p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p> | <p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAC certified</p> |
|---|--|

2609 North River Road, Port Allen, Louisiana 70767
(800) 401-4277 -- FAX (225) 381-2996



ARS International, LLC

Laboratory Analysis Report

ARS1-17-01846

Prepared for:

B-Environmental

**Kevin Baros
1606 East Brazos Street
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Victoria, TX 77901**

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Fax: 361-572-4115**

Project Manager Review

Management Review

Notes: ARS International, LLC assumes no liability for the use or the interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

Contact Person: Questions regarding this analytical report should be addressed to:

**Project Manager
ProjectManagers@amrad.com**

**Phone: 225.381.2991
Fax: 225.381.2996**



LELAP Cert# 01949



2609 North River Road, Port Allen, Louisiana 70767
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ARS Sample Delivery Group: ARS1-17-01846

Request or PO Number: N/A

Client Sample ID: S171730743 (BATCH 56830)

ARS Sample ID: ARS1-17-01846-001

Sample Collection Date: 06/21/17

Date Received: 06/23/17

Sample Matrix: Aqueous

Report Date: 07/25/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.159 | 0.121 | 0.160 | 0.061 | NP | U,Q | pCi/L | ARS-010/EPA 903.0/904.0 | 07/20/17 8:12 | CTRAMEL | 106% |
| Ra-228 | 0.546 | 0.680 | 1.132 | 0.525 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/13/17 12:00 | CTRAMEL | 97% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-01846

Request or PO Number: N/A

Client Sample ID: S17173074A (BATCH 56830)

ARS Sample ID: ARS1-17-01846-002

Sample Collection Date: 06/21/17

Date Received: 06/23/17

Sample Matrix: Aqueous

Report Date: 07/25/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.319 | 0.153 | 0.154 | 0.059 | NP | Q | pCi/L | ARS-010/EPA 903.0/904.0 | 07/20/17 8:12 | CTRAMEL | 102% |
| Ra-228 | 0.765 | 0.670 | 1.069 | 0.494 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/13/17 12:00 | CTRAMEL | 93% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-01846

Request or PO Number: N/A

Client Sample ID: S17173074B (BATCH 56830)

ARS Sample ID: ARS1-17-01846-003

Sample Collection Date: 06/21/17

Date Received: 06/23/17

Sample Matrix: Aqueous

Report Date: 07/25/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.245 | 0.133 | 0.138 | 0.051 | NP | Q | pCi/L | ARS-010/EPA 903.0/904.0 | 07/20/17 8:12 | CTRAMEL | 102% |
| Ra-228 | 1.334 | 0.753 | 1.096 | 0.506 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 07/13/17 12:00 | CTRAMEL | 93% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-01846

Request or PO Number: N/A

Client Sample ID: S17173074C (BATCH 56830)

ARS Sample ID: ARS1-17-01846-004

Sample Collection Date: 06/21/17

Date Received: 06/23/17

Sample Matrix: Aqueous

Report Date: 07/25/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.261 | 0.148 | 0.181 | 0.074 | NP | Q | pCi/L | ARS-010/EPA 903.0/904.0 | 07/20/17 8:12 | CTRAMEL | 106% |
| Ra-228 | 0.365 | 0.718 | 1.232 | 0.575 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/13/17 12:00 | CTRAMEL | 96% |

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Project Manager Review

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ARS Sample Delivery Group: ARS1-17-01846

Request or PO Number: N/A

Client Sample ID: S17173074D (BATCH 56830)

ARS Sample ID: ARS1-17-01846-005

Sample Collection Date: 06/21/17

Date Received: 06/23/17

Sample Matrix: Aqueous

Report Date: 07/25/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.135 | 0.131 | 0.201 | 0.082 | NP | U,Q | pCi/L | ARS-010/EPA 903.0/904.0 | 07/20/17 8:12 | CTRAMEL | 106% |
| Ra-228 | 1.045 | 0.754 | 1.167 | 0.541 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/13/17 12:00 | CTRAMEL | 94% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-01846

Request or PO Number: N/A

Client Sample ID: S17173074E (BATCH 56830)

ARS Sample ID: ARS1-17-01846-006

Sample Collection Date: 06/21/17

Data Received: 06/23/17

Sample Matrix: Aqueous

Report Date: 07/25/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.106 | 0.127 | 0.206 | 0.081 | NP | U,Q | pCi/L | ARS-010/EPA 903.0/904.0 | 07/20/17 8:12 | CTRAMEL | 88% |
| Ra-228 | -0.226 | 0.658 | 1.228 | 0.569 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/13/17 12:00 | CTRAMEL | 85% |

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Project Manager Review

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ARS Sample Delivery Group: ARS1-17-01847

Request or PO Number: N/A

Client Sample ID: S17173074F (BATCH 56830)

ARS Sample ID: ARS1-17-01847-001

Sample Collection Date: 06/21/17

Date Received: 06/23/17

Sample Matrix: Aqueous

Report Date: 07/24/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.108 | 0.124 | 0.201 | 0.082 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/19/17 9:20 | SCAUSEY | 110% |
| Ra-228 | 0.601 | 0.699 | 1.156 | 0.536 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/12/17 12:19 | SCAUSEY | 104% |

Project Manager Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

LELAP Certificate# 01949



2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01847
 Client Sample ID: S17173074G (BATCH 56830)
 Sample Collection Date: 06/21/17
 Sample Matrix: Aqueous
 Percent Solids: N/A

Request or PO Number: N/A
 ARS Sample ID: ARS1-17-01847-002
 Date Received: 06/23/17
 Report Date: 07/24/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.250 | 0.140 | 0.155 | 0.060 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 07/19/17 9:21 | SCAUSEY | 107% |
| Ra-228 | 0.769 | 0.710 | 1.143 | 0.530 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/12/17 12:19 | SCAUSEY | 113% |

Project Manager Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

LELAP Certificate# 01949



INTERNATIONAL

QC Results Report

2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

Sample Delivery Group: ARS1-17-01846

Laboratory Control Sample Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | LCS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|----------------------|
| ARS1-B17-01381 | LCS | RA-226 | 24.238 | 3.914 | 0.106 | 27.502 | N/A | pCi/L | ARS-010/EPA 903 | 7/20/17 10:11 | CT | 88 | 75%-125% |
| ARS1-B17-01381 | LCS | RA-228 | 39.109 | 6.492 | 1.063 | 39.784 | N/A | pCi/L | ARS-010/EPA 904 | 7/13/17 13:59 | CT | 98 | 75%-125% |

Blank Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|
| ARS1-B17-01381 | MBL | RA-226 | 0.270 | 0.108 | 0.097 | NA | | pCi/L | ARS-010/EPA 903 | 7/20/17 10:11 | CT |
| ARS1-B17-01381 | MBL | RA-228 | 0.702 | 0.394 | 0.577 | NA | | pCi/L | ARS-010/EPA 904 | 7/13/17 13:59 | CT |

RER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | RER | RER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01381 | LCS | RA-226 | 24.238 | 3.914 | 24.422 | 3.950 | N/A | pCi/L | ARS-010/EPA 903 | 7/20/17 10:11 | CT | 0.02 | < 1 |
| ARS1-B17-01381 | LCS | RA-228 | 39.109 | 6.492 | 34.948 | 5.821 | N/A | pCi/L | ARS-010/EPA 904 | 7/13/17 13:59 | CT | 0.34 | < 1 |

DER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | DER | DER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01381 | LCS | RA-226 | 24.238 | 3.914 | 24.422 | 3.950 | N/A | pCi/L | ARS-010/EPA 903 | 7/20/17 10:11 | CT | 0.03 | < 3 |
| ARS1-B17-01381 | LCS | RA-228 | 39.109 | 6.492 | 34.948 | 5.821 | N/A | pCi/L | ARS-010/EPA 904 | 7/13/17 13:59 | CT | 0.48 | < 3 |

Matrix Spike

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | MS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|---------------------|
| ARS1-B17-01381 | MS | Ra-226 | 60.395 | 9.721 | 0.163 | 56.063 | N/A | pCi/L | ARS-010/EPA 903 | 7/20/17 10:11 | CT | 108 | 60%-140% |
| ARS1-B17-01381 | MS | Ra-228 | 45.397 | 7.586 | 1.443 | 51.945 | N/A | pCi/L | ARS-010/EPA 904 | 7/13/17 13:59 | CT | 87 | 60%-140% |
| ARS1-B17-01381 | MSD | Ra-226 | 72.092 | 11.606 | 0.194 | 55.902 | N/A | pCi/L | ARS-010/EPA 903 | 7/20/17 10:11 | CT | 129 | 60%-140% |
| ARS1-B17-01381 | MSD | Ra-228 | 49.697 | 8.365 | 1.820 | 52.098 | N/A | pCi/L | ARS-010/EPA 904 | 7/13/17 13:59 | CT | 95 | 60%-140% |

Project Manager Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

LELAP Certificate# 01949

NELAP Certificate # E87558



2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

**INTERNATIONAL
QC Results Report**

Sample Delivery Group: ARS1-17-01847

Laboratory Control Sample Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | LCS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|----------------------|
| ARS1-B17-01375 | LCS | RA-226 | 23.217 | 3.753 | 0.106 | 27.545 | N/A | pCi/L | ARS-010/EPA 903 | 7/19/17 9:21 | SC | 84 | 75%-125% |
| ARS1-B17-01375 | LCS | RA-228 | 37.334 | 6.220 | 1.089 | 39.784 | N/A | pCi/L | ARS-010/EPA 904 | 7/19/17 9:21 | SC | 94 | 75%-125% |

Blank Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|
| ARS1-B17-01375 | MBL | RA-226 | 0.047 | 0.059 | 0.097 | NA | U | pCi/L | ARS-010/EPA 903 | 7/19/17 9:21 | SC |
| ARS1-B17-01375 | MBL | RA-228 | 0.085 | 0.375 | 0.664 | NA | U | pCi/L | ARS-010/EPA 904 | 7/19/17 9:21 | SC |

RER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | RER | RER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01375 | LCSD | RA-226 | 23.217 | 3.753 | 23.497 | 3.803 | N/A | pCi/L | ARS-010/EPA 903 | 7/19/17 9:21 | SC | 0.04 | < 1 |
| ARS1-B17-01375 | LCSD | RA-228 | 37.334 | 6.220 | 36.006 | 5.998 | N/A | pCi/L | ARS-010/EPA 904 | 7/19/17 9:21 | SC | 0.11 | < 1 |

DER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | DER | DER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01375 | LCSD | RA-226 | 23.217 | 3.753 | 23.497 | 3.803 | N/A | pCi/L | ARS-010/EPA 903 | 7/19/17 9:21 | SC | 0.05 | < 3 |
| ARS1-B17-01375 | LCSD | RA-228 | 37.334 | 6.220 | 36.006 | 5.998 | N/A | pCi/L | ARS-010/EPA 904 | 7/19/17 9:21 | SC | 0.15 | < 3 |

Project Manager Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of ARS International.

LELAP Certificate# 01949

NELAP Certificate # E87558



2809 North River Road • Port Allen, Louisiana 70787

1 (800) 401-4277 • Fax (225) 381-2998

Notes (Case Narrative):

Comments:

- 1.0) All MDA/MDC values are calculated on a sample specific basis.
- 2.0) Soil and Sludge analysis are reported on a wet basis or an as received basis unless otherwise indicated.
- 3.0) Data in this report are within the limits of uncertainty specified in the reference method unless otherwise specified.
- 4.0) Modified analysis procedures are procedures that are modified to meet the certain specifications. An example may be the use of a water method to analyze a solid matrix due to the lack of an officially recognized procedure for the analysis of the solid matrix. Modified analyses are indicated by the subsequent addition of "m" to the procedure number (i.e. 900.0M).
- 5.0) Total activity is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring radioactive decay chains and other prominent radioactive nuclides. Total activity may be lower than the actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not representative of nuclides that emit solely alpha or beta particles.
- 6.0) Ra-228 is determined via secular equilibrium with its daughter, Actinium 228 (Gamma Spectroscopy only).
- 7.0) U-238 is determined via secular equilibrium with its daughter, Thorium 234 (Gamma Spectroscopy only).
- 8.0) All gamma spectroscopy was performed utilizing high purity germanium detectors (HPGe).
- 9.0) ARS makes every attempt to match sample density to calibrated density; however, in some cases, it is not practical or possible to do so and data results may be affected (Gamma Spectroscopy only).
- 10.0) Gamma spectroscopy results are calculated values based on the ORTEC[®] GammaVision ENV32 Analysis Engine.
- 11.0) ACLASS DOD and ISO 17025 certification applies only to the following analytes and methods: Gross Alpha and Gross Beta (EPA 900, SM7110B&C, SW846 9310); Radium 226 (EPA 903, EPA 903.1, SM 7500 Ra-B, SW846 9315); Radium 228 (EPA 904, SM 7500 Ra-B SW846 9320); Iodine-131 (EPA 901.1); Uranium by ICPMS (EPA 200.8); Strontium 89/90 (EPA 905, Eichrom SRW01, HASL 300 Sr-03-RC); Tritium (EPA 906, EPA 906M); Gamma Emitters (EPA 901.1, SM7120B, HASL 300 Ga-01-R); Americium-241, Curium 242/244, Plutonium 238/240 and 241, Thorium 228/230/232, Uranium 234/233 and 238 (Eichrom ACW03 VBS); Lead 210 (HASL 300 Pb-01-RC, Eichrom OTW01); Polonium 210 (HASL 300 Po-01-RC, HASL 300 Po-02-RC); Technetium-99 (Eichrom TCW02, Eichrom TCS01M).

Method References:

- 1.0) EPA 600/4-80-032; Prescribed Procedures for the Measurements of Radioactivity in Drinking Water, August 1980.
- 2.0) Standard Methods for the Examination of Water and Wastewater (On-Line Edition)
- 3.0) EPA SW-846; Test Methods for Evaluating Solid Waste, (On-Line edition)
- 4.0) EPA 600/4/79-020; Methods for Chemical Analysis of Water and Waste, March 1983.
- 5.0) HASL 300; The Procedures Manual of the Environmental Measurements Laboratory, Volume I, 28th Edition February, 1997.

Definitions:

| | |
|----------|---|
| CRDL | Contract Required Detection Limit |
| CSU | Combined Standard Uncertainty |
| DLC | Decision Level Concentration (ANSI N42.23) or critical level |
| DO | Duplicate Original |
| DUP | Method Duplicate |
| LCS/LCSD | Laboratory Control Sample/Laboratory Control Sample Duplicate |
| MDA | Minimum Detectable Activity |
| MDC | (Minimum Detectable Concentration) minimum concentration of the analyte that ARS can detect utilizing the specific analysis |
| MBL | Method Blank |
| MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| N/A | Not Applicable |
| NP | Not Provided |
| NR | Not Referenced |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |

Data Qualifiers:

| | |
|----|--|
| B | The analyte is found in both the associated method blank and the sample. This flag indicates probable blank contamination. |
| D | Sample analysis accomplished through dilution. |
| J | The reported result is an estimated value above the limit of detection but outside of quantitation range (e.g., matrix interference was observed). |
| Q | One or more quality control criteria failed (e.g., LCS recovery, surrogate spike recovery, or CCV recovery). |
| U | Activity is below the MDC, MDA, MDL, or LOD |
| N | The analyte is a tentatively identified compound using mass spectrometry or any non-customer requested compounds that are tentatively identified. |
| * | LCS/LCSD or MS/MSD fails RPD criteria. |
| S | Spike |
| SC | Subcontracted out to another qualified laboratory |
| H | Holding time exceeded |

ARS-059-010
Revision: 9.1
Revision Date: 03-14-2017

LELAP Cert# 01949

NELAP Cert# E87558

B Environmental Laboratory, LLC
 1606 E Brazos Suite D, Victoria, Texas 77901 ph: (361) 572-8224

Chain Of Custody Rec

Batch # 56830 TEMP UN-C: 4.1 Page 1 of 2

Customer / Report Information: **Coletto Creek Power** Billing Information: Check box if Billing is the same as Report Information THERM ID# 3 TEMP Corr: 3.9

Attention: Rick Coleman Address: P.O. Box 8, Fannin, TX 77960 Attention: PO # Project: CCR Sampling Comments: Requested Analysis: E Completed By laboratory

| Sample Information | Collected | Matrix | Container | Preservative | Metals | Cl, F, SO4 | pH | TDS | Ra226 & Ra228 | Alk: Tot, Carb, Bi Carb | Diss Li & Mo | Custody Seals Present |
|--------------------|-----------|--------|-----------|--------------|--------|------------|----|-----|---------------|-------------------------|--------------|-----------------------|
| | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | |
|-----|---------|-----|---|----|---|---------|-------|---|--|---|---|---|---|---|---|---|------------|
| PS3 | 6-21-17 | 845 | G | WW | P | 6 500mL | 250mL | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | X | S171730743 |
|-----|---------|-----|---|----|---|---------|-------|---|--|---|---|---|---|---|---|---|------------|

| | | | | | | | | | | | | | | | | |
|-------|--|-----|---|----|---|---------|-------|---|--|---|---|---|---|---|---|------------|
| Mw-11 | | 913 | G | WW | P | 6 500mL | 250mL | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | S17173074A |
|-------|--|-----|---|----|---|---------|-------|---|--|---|---|---|---|---|---|------------|

| | | | | | | | | | | | | | | | | |
|------|--|------|---|----|---|---------|-------|---|--|---|---|---|---|---|---|------------|
| Mw-9 | | 1014 | G | WW | P | 6 500mL | 250mL | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | S17173074B |
|------|--|------|---|----|---|---------|-------|---|--|---|---|---|---|---|---|------------|

| | | | | | | | | | | | | | | | | |
|-------|--|------|---|----|---|---------|-------|---|--|---|---|---|---|---|---|------------|
| Mw-9A | | 1044 | G | WW | P | 6 500mL | 250mL | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | S17173074C |
|-------|--|------|---|----|---|---------|-------|---|--|---|---|---|---|---|---|------------|

| | | | | | | | | | | | | | | | | |
|--------|--|------|---|----|---|---------|-------|---|--|---|---|---|---|---|---|------------|
| MwS-MS | | 1112 | G | WW | P | 6 500mL | 250mL | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | S17173074D |
|--------|--|------|---|----|---|---------|-------|---|--|---|---|---|---|---|---|------------|

| | | | | | | | | | | | | | | | | |
|---------|--|------|---|----|---|---------|-------|---|--|---|---|---|---|---|---|------------|
| MwS-MSD | | 1112 | G | WW | P | 6 500mL | 250mL | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | S17173074D |
|---------|--|------|---|----|---|---------|-------|---|--|---|---|---|---|---|---|------------|

| | | | | | | | | | | | | | | | | |
|-------|--|--|---|----|---|---------|-------|---|--|---|---|---|---|---|---|------------|
| Dup 2 | | | G | WW | P | 6 500mL | 250mL | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | S17173074D |
|-------|--|--|---|----|---|---------|-------|---|--|---|---|---|---|---|---|------------|

Required Turnaround: Routine (6-10 Business days) Expedite / Rush: 1 Business Day 2 Business Days 3 Business Days 5 Business Days Other

Surcharge will apply to RUSH/AM Authorized By: _____ Container Type: P=Plastic, G=Glass, V=Voa, O=Other Carrier ID: _____

Relinquished By: _____ Date: 6-21-17 Time: 16:25 Received By: _____ Date: 6-21-17 Time: 16:25

1606 E Brazos Suite D, Victoria, Texas 77901 Ph: (361) 572-8224 Fax (361) 572-4115 Toll Free 1-800-460-8223 Form #1000-0-2 REV 1.2 Email: idenvir@suddenlinkmail.com www.benvironmental.net

B Environmental Laboratory, LLC
 1606 E Brazos Suite D Victoria, Texas 77901 ph: (361) 572-8224
Chain Of Custody Rec Batch # 56830 TEMP UN-C: 4.1 Page 2 of 2

Customer / Report Information Name: Coletto Creek Power Address: 1606 E Brazos Suite D Victoria, Texas 77901
 Billing Information: Check box if Billing is the same as Report Information
 Attention: Rick Coleman Address: 1606 E Brazos Suite D Victoria, Texas 77901
 Project: CCR Sampling PO #
 Comments: Richard Coleman EMAIL: richard.coleman@duneav.com
 Phone: 361-788-5145 FAX:
 THERM ID# 3 TEMP CORR: 3.9
 Requested Analysis: Metals, Cl, F, SO4, pH, TDS, Ra226 & Ra228, Alk: Tot, Carb, Bi Carb, Diss Li & Mo
 Completed By laboratory

| Sample Information | Collected | | Matrix | Container | Preservative | Metals* | Cl, F, SO4 | pH | TDS | Ra226 & Ra228 | Alk: Tot, Carb, Bi Carb | Diss Li & Mo | Custody Seals Present |
|--------------------|-----------|------|--------|-----------|--------------|---------|------------|----|-----|---------------|-------------------------|--------------|-----------------------|
| | Date | Time | | | | | | | | | | | |

| | | | | | | | | | | | | | |
|------|---------|------|---|-------|---|---|---|---|---|---|---|---|------------|
| MW-5 | 6-21-17 | 1112 | G | 1L WW | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | X | S17173074E |
|------|---------|------|---|-------|---|---|---|---|---|---|---|---|------------|

| | | | | | | | | | | | | | |
|-------|------|--|---|-------|---|---|---|---|---|---|---|---|------------|
| MW-10 | 1338 | | G | 1L WW | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | X | S17173074F |
|-------|------|--|---|-------|---|---|---|---|---|---|---|---|------------|

| | | | | | | | | | | | | | |
|--------|------|--|---|-------|---|---|---|---|---|---|---|---|------------|
| MW-10A | 1415 | | G | 1L WW | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | X | S17173074G |
|--------|------|--|---|-------|---|---|---|---|---|---|---|---|------------|

| | | | | | | | | | | | | | |
|--|--|--|---|-------|---|---|---|---|---|---|---|---|--|
| | | | G | 1L WW | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | X | |
|--|--|--|---|-------|---|---|---|---|---|---|---|---|--|

| | | | | | | | | | | | | | |
|--|--|--|---|-------|---|---|---|---|---|---|---|---|--|
| | | | G | 1L WW | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | X | |
|--|--|--|---|-------|---|---|---|---|---|---|---|---|--|

| | | | | | | | | | | | | | |
|--|--|--|---|-------|---|---|---|---|---|---|---|---|--|
| | | | G | 1L WW | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | X | |
|--|--|--|---|-------|---|---|---|---|---|---|---|---|--|

| | | | | | | | | | | | | | |
|--|--|--|---|-------|---|---|---|---|---|---|---|---|--|
| | | | G | 1L WW | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | X | |
|--|--|--|---|-------|---|---|---|---|---|---|---|---|--|

Required Turnaround: Routine (6-10 Business days) Expedite / Rush: 1 Business Day 2 Business Days 3 Business days 5 Business days Other

Surcharge will apply to RUSH/TAT Authorized By: _____

| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
|--------------------|---------|-------|--------------------|---------|-------|
| <u>[Signature]</u> | 6-21-17 | 1625 | <u>[Signature]</u> | 6-21-17 | 16:25 |

BatchNo: 56859

SAMPLE REPORT



T104704328-17-14

Business

Coletto Creek Power - R Coleman
PO Box 8
Fannin TX 77960
Att: Rick Coleman



Laboratory

B Environmental, LLC.
1606 E Brazos, Suite D
Victoria TX 77901
ph. 361-572-8224

Reference Information

Project: CCR Sampling
Printed: Wednesday,
July 26, 2017

Re: Coletto Creek Power - R Coleman

Dear: Rick Coleman

Attached are the results for sample(s) received on 6/22/2017

The analytical results relate only to the samples tested.
All supporting quality data meets the requirements of NELAC unless noted in the case narrative section of the report.

This report contains 24 pages (including the cover page)

If you have any questions concerning this report, please do not hesitate to call (361) 572-8224 or Fax us at (361) 572-4115

Respectfully Submitted,

Kevin Baros
Laboratory Director



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BatchNo: 56859

Batch No:

Sample Receipt Checklist

Date Received:

Project Received By:

Login completed by:

- YES NO Not Present
- YES NO Not Present
- YES NO Not Present
- YES NO
- YES NO
- YES NO
- YES NO
- YES NO
- YES NO
- YES NO
- YES NO >0 <6 °C On Ice
- YES NO No VOA Vials submitted
- YES NO Not Applicable

*TEMP pH Adjusted? Checked By

Any No and/or N/A (not applicable) response must be detailed in the comments section below.

Client contacted PersonContacted

Contacted by: Date Contacted:

Regarding

Comments

Corrective Action



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 Victoria TX 77901

BatchNo: 56859

Sample Report Information



| | | | | | |
|------------|-------------------|------------|-------------|----------|---------------|
| Sample ID: | S171731617 | Client ID: | MW-6 | Sampler: | Client |
|------------|-------------------|------------|-------------|----------|---------------|

Client: Coletto Creek Power - R Coleman
 Study: Water
 Project: CCR Sampling
 Location: MW #6
 Notes:

Batch No: 56859
 Sampled: 6/22/2017 9:15 AM
 Type: Grab
 Matrix: Wastewater

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 69 | mg/L | EPA 300 | K Baros | 6/22/2017 22:16 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 185 | mg/L | SM 2320 B | | 6/27/2017 14:47 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/27/2017 14:47 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 185 | mg/L | SM 2320 B | | 6/27/2017 14:47 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.37 | mg/L | EPA 300 | K Baros | 6/22/2017 22:16 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.1 | SU | SM 4500-H+B | C Watts | 6/22/2017 16:25 | 2 | 2 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 510 | mg/L | SM2540C | C Watts | 6/27/2017 10:30 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | c | # | | | 7/3/2017 16:05 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 100 | mg/L | EPA 300 | K Baros | 6/22/2017 22:16 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | c | # | | | 7/19/2017 9:21 | | | | | <input checked="" type="checkbox"/> | ARS International |



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BatchNo: 56859

Victoria TX 77901

Sample Report Information



| | | |
|------------------------------|------------------------|------------------------|
| Sample ID: S171731618 | Client ID: MW-7 | Sampler: Client |
|------------------------------|------------------------|------------------------|

Client: Coletto Creek Power - R Coleman
Study: Water

Batch No: 56859
Sampled: 6/22/2017 10:14 AM

Project: CCR Sampling

Location: MW #6

Type: Grab

Notes:

Matrix: Wastewater

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 90 | mg/L | EPA 300 | K Baros | 6/22/2017 22:55 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 253 | mg/L | SM 2320 B | | 6/27/2017 15:04 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/27/2017 15:04 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 253 | mg/L | SM 2320 B | | 6/27/2017 15:04 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.61 | mg/L | EPA 300 | K Baros | 6/22/2017 22:55 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.18 | SU | SM 4500-H+B | C Watts | 6/22/2017 16:25 | 2 | 2 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 537 | mg/L | SM2540C | C Watts | 6/27/2017 10:30 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/3/2017 16:06 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 75 | mg/L | EPA 300 | K Baros | 6/22/2017 22:55 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/19/2017 9:21 | | | | | | <input checked="" type="checkbox"/> ARS International |



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BatchNo: 56859

Page 5 of 24

Victoria TX 77901



QA Summary Report

| Parameter | ID | Result | Ref Value | Amt Added | LOQ | Qualifier | Control | Flag | Comments |
|------------------------------------|------------|---------|-----------|-----------|-----|-----------|----------|------|-------------------------------|
| .Method Blank | | | | | | | | | |
| Solids, Total Dissolved | Q171801020 | <25mg/L | 0 | | 10 | | 25 | | Blank Acceptable. |
| 6/27/2017 10:30 | | | | | | | | | |
| Duplicate | | | | | | | | | |
| pH (Standard Units) | Q171741114 | 7.12SU | 7.1 | | 2 | 0.3% | 20 | | Duplicate RPD Acceptable. |
| 6/22/2017 16:25 | | | | | | | | | |
| Solids, Total Dissolved | Q171801022 | 800mg/L | 813 | | 10 | 1.6% | 20 | | Duplicate RPD Acceptable. |
| 6/27/2017 10:30 | | | | | | | | | |
| Laboratory Control Standard | | | | | | | | | |
| pH (Standard Units) | Q171741113 | 6.98SU | 7 | | 2 | 99.7% | 80 - 120 | | Standard Recovery Acceptable. |
| 6/22/2017 16:25 | | | | | | | | | |
| | | | | | | 0.3% | 20 | | Standard RPD Acceptable. |

Flag and Qualifier Legend

- Negative - Result Detected **MDL = Method Detection Limit** **DF = Dilution Factor**
- Caution - Problem Detected **LOQ = Limit of Quantitation** **j = Analyte detected between MDL and LOQ**
- Warning - Null Value **S = surrogate standard out of limit** **H = sample out of hold time**
- MS, MSD, RPD- Failure may occur due to matrix interference, data released per QA plan**

Wednesday, July 26, 2017

B Environmental - LDMS QA Report Summary

Note:

THANK YOU!



B Environmental, LLC.

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Victoria TX 77901

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DHL Analytical, Inc.

Date: 05-Jul-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Lab Order: 1706278

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition and Standard Methods.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives except where noted in the following. For Dissolved Metals Analysis, the recovery and RPD of Lithium for the Matrix Spike and Matrix Spike Duplicate (1706277-06 MS/MSD) were outside of the method control limits. This is flagged accordingly in the QC Summary Report. This analyte was within method control limits in the associated LCS. No further corrective action was taken.

For Total Metals Analysis, the recoveries of Calcium and Sodium for the Matrix Spike and Matrix Spike Duplicate (1706277-06 MS/MSD) were outside of the method control limits. These are flagged accordingly in the QC Summary Report. These analytes were within method control limits in the associated LCS. No further corrective action was taken.

For Total Metals Analysis, the RPD of Boron for the Serial Dilution (1706277-06 SD) was above the method control limit. This is flagged accordingly in the QC Summary Report. This analyte was within method control limits in the associated Post Digestion Spike. No further corrective action was taken.

The Dissolved/Total Metals Analysis, the result of Dissolved Lithium for Sample MW-7 was slightly higher than the result of Total Lithium. than the total Iron and Manganese. The results were within acceptable analytical variation limits. No further corrective action was taken.

DHL Analytical, Inc.

Date: 05-Jul-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR (56859)
Lab Order: 1706278

Client Sample ID: MW-6
Lab ID: 1706278-01
Alternate ID: S171731617
Collection Date: 06/22/17 09:15 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|------|----------------|----|---------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | | | | Analyst: RO |
| Dissolved Lithium | 0.00944 | 0.00500 | 0.0100 | J | mg/L | 1 | 07/05/17 12:56 PM |
| Dissolved Molybdenum | 0.00754 | 0.00200 | 0.00500 | | mg/L | 1 | 06/30/17 01:16 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | | | | Analyst: RO |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 07/03/17 04:05 PM |
| Arsenic | 0.00764 | 0.00200 | 0.00500 | | mg/L | 1 | 07/03/17 04:05 PM |
| Barium | 0.0830 | 0.00300 | 0.0100 | | mg/L | 1 | 07/03/17 04:05 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/03/17 04:05 PM |
| Boron | 1.97 | 0.0100 | 0.0300 | | mg/L | 1 | 07/03/17 04:05 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/03/17 04:05 PM |
| Calcium | 79.9 | 1.00 | 3.00 | | mg/L | 10 | 07/05/17 12:08 PM |
| Chromium | 0.00244 | 0.00200 | 0.00500 | J | mg/L | 1 | 07/03/17 04:05 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 07/03/17 04:05 PM |
| Lead | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/03/17 04:05 PM |
| Lithium | 0.0109 | 0.00500 | 0.0100 | | mg/L | 1 | 07/05/17 01:41 PM |
| Magnesium | 9.57 | 0.100 | 0.300 | | mg/L | 1 | 07/03/17 04:05 PM |
| Molybdenum | 0.00840 | 0.00200 | 0.00500 | | mg/L | 1 | 07/03/17 04:05 PM |
| Potassium | 1.03 | 0.100 | 0.300 | | mg/L | 1 | 07/03/17 04:05 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/03/17 04:05 PM |
| Sodium | 72.0 | 1.00 | 3.00 | | mg/L | 10 | 07/05/17 12:08 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 07/03/17 04:05 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | | | Analyst: AH |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 06/30/17 11:04 AM |
| ALKALINITY | | M2320 B | | | | | Analyst: BTJ |
| Alkalinity, Bicarbonate (As CaCO3) | 185 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/27/17 02:47 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/27/17 02:47 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/27/17 02:47 PM |
| Alkalinity, Total (As CaCO3) | 185 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/27/17 02:47 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 05-Jul-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR (56859)
Lab Order: 1706278

Client Sample ID: MW-7
Lab ID: 1706278-02
Alternate ID: S171731618
Collection Date: 06/22/17 10:14 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|--------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: RO | | | |
| Dissolved Lithium | 0.0134 | 0.00500 | 0.0100 | | mg/L | 1 | 07/05/17 12:58 PM |
| Dissolved Molybdenum | 0.00909 | 0.00200 | 0.00500 | | mg/L | 1 | 06/30/17 01:18 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: RO | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 07/03/17 04:06 PM |
| Arsenic | 0.00961 | 0.00200 | 0.00500 | | mg/L | 1 | 07/03/17 04:06 PM |
| Barium | 0.0901 | 0.00300 | 0.0100 | | mg/L | 1 | 07/03/17 04:06 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/03/17 04:06 PM |
| Boron | 1.05 | 0.0100 | 0.0300 | | mg/L | 1 | 07/03/17 04:06 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/03/17 04:06 PM |
| Calcium | 73.8 | 1.00 | 3.00 | | mg/L | 10 | 07/05/17 12:25 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/03/17 04:06 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 07/03/17 04:06 PM |
| Lead | 0.000590 | 0.000300 | 0.00100 | J | mg/L | 1 | 07/03/17 04:06 PM |
| Lithium | 0.0111 | 0.00500 | 0.0100 | | mg/L | 1 | 07/05/17 01:43 PM |
| Magnesium | 10.5 | 0.100 | 0.300 | | mg/L | 1 | 07/03/17 04:06 PM |
| Molybdenum | 0.00972 | 0.00200 | 0.00500 | | mg/L | 1 | 07/03/17 04:06 PM |
| Potassium | 1.19 | 0.100 | 0.300 | | mg/L | 1 | 07/03/17 04:06 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/03/17 04:06 PM |
| Sodium | 114 | 1.00 | 3.00 | | mg/L | 10 | 07/05/17 12:25 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 07/03/17 04:06 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 06/30/17 11:07 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 253 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 06/27/17 03:04 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 06/27/17 03:04 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 06/27/17 03:04 PM |
| Alkalinity, Total (As CaCO3) | 253 | 20.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 06/27/17 03:04 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 05-Jul-17

CLIENT: B-Environmental
Work Order: 1706278
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_170630A

The QC data in batch 81155 applies to the following samples: 1706278-01A, 1706278-02A

Sample ID **MB-81155** Batch ID: **81155** TestNo: **SW7470A** Units: **mg/L**
 SampType: **MBLK** Run ID: **CETAC2_HG_170630A** Analysis Date: **6/30/2017 10:10:29 AM** Prep Date: **6/28/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|------------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | <0.0000800 | 0.000200 | | | | | | | | |

Sample ID **LCS-81155** Batch ID: **81155** TestNo: **SW7470A** Units: **mg/L**
 SampType: **LCS** Run ID: **CETAC2_HG_170630A** Analysis Date: **6/30/2017 10:15:00 AM** Prep Date: **6/28/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00216 | 0.000200 | 0.00200 | 0 | 108 | 85 | 115 | | | |

Sample ID **LCSD-81155** Batch ID: **81155** TestNo: **SW7470A** Units: **mg/L**
 SampType: **LCSD** Run ID: **CETAC2_HG_170630A** Analysis Date: **6/30/2017 10:17:17 AM** Prep Date: **6/28/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00204 | 0.000200 | 0.00200 | 0 | 102 | 85 | 115 | 5.71 | 15 | |

Sample ID **1706246-05B SD** Batch ID: **81155** TestNo: **SW7470A** Units: **mg/L**
 SampType: **SD** Run ID: **CETAC2_HG_170630A** Analysis Date: **6/30/2017 10:33:08 AM** Prep Date: **6/28/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|-----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | <0.000400 | 0.00100 | 0 | 0 | | | | 0 | 10 | |

Sample ID **1706246-05B PDS** Batch ID: **81155** TestNo: **SW7470A** Units: **mg/L**
 SampType: **PDS** Run ID: **CETAC2_HG_170630A** Analysis Date: **6/30/2017 10:35:23 AM** Prep Date: **6/28/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00245 | 0.000200 | 0.00250 | 0 | 98.0 | 85 | 115 | | | |

Sample ID **1706246-05B MS** Batch ID: **81155** TestNo: **SW7470A** Units: **mg/L**
 SampType: **MS** Run ID: **CETAC2_HG_170630A** Analysis Date: **6/30/2017 10:37:39 AM** Prep Date: **6/28/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00206 | 0.000200 | 0.00200 | 0 | 103 | 80 | 120 | | | |

Sample ID **1706246-05B MSD** Batch ID: **81155** TestNo: **SW7470A** Units: **mg/L**
 SampType: **MSD** Run ID: **CETAC2_HG_170630A** Analysis Date: **6/30/2017 10:39:55 AM** Prep Date: **6/28/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00202 | 0.000200 | 0.00200 | 0 | 101 | 80 | 120 | 1.96 | 15 | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706278
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170630A

The QC data in batch 81153 applies to the following samples: 1706278-01B, 1706278-02B

| | | | | | | | | | | |
|------------|-----------------|-----------|------------------------|----------------|------------------------------|------------|------------------|------|----------|------|
| Sample ID | MB-81153 | Batch ID: | 81153 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | MBLK | Run ID: | ICP-MS5_170630A | Analysis Date: | 6/30/2017 11:47:00 AM | Prep Date: | 6/29/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | <0.00500 | 0.0100 | | | | | | | | |
| Molybdenum | <0.00200 | 0.00500 | | | | | | | | |

| | | | | | | | | | | |
|------------|------------------|-----------|------------------------|----------------|------------------------------|------------|------------------|------|----------|------|
| Sample ID | LCS-81153 | Batch ID: | 81153 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | LCS | Run ID: | ICP-MS5_170630A | Analysis Date: | 6/30/2017 11:49:00 AM | Prep Date: | 6/29/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.214 | 0.0100 | 0.200 | 0 | 107 | 80 | 120 | | | |
| Molybdenum | 0.188 | 0.00500 | 0.200 | 0 | 93.8 | 80 | 120 | | | |

| | | | | | | | | | | |
|------------|-------------------|-----------|------------------------|----------------|------------------------------|------------|------------------|-------|----------|------|
| Sample ID | LCSD-81153 | Batch ID: | 81153 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | LCSD | Run ID: | ICP-MS5_170630A | Analysis Date: | 6/30/2017 11:51:00 AM | Prep Date: | 6/29/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.215 | 0.0100 | 0.200 | 0 | 108 | 80 | 120 | 0.739 | 15 | |
| Molybdenum | 0.192 | 0.00500 | 0.200 | 0 | 95.9 | 80 | 120 | 2.14 | 15 | |

| | | | | | | | | | | |
|------------|-----------------------|-----------|------------------------|----------------|------------------------------|------------|------------------|------|----------|------|
| Sample ID | 1706277-06B MS | Batch ID: | 81153 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | MS | Run ID: | ICP-MS5_170630A | Analysis Date: | 6/30/2017 12:17:00 PM | Prep Date: | 6/29/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | <0.250 | 0.500 | 0.200 | 0 | 0 | 80 | 120 | | | S |
| Molybdenum | 0.188 | 0.250 | 0.200 | 0 | 93.8 | 80 | 120 | | | |

| | | | | | | | | | | |
|------------|------------------------|-----------|------------------------|----------------|------------------------------|------------|------------------|-------|----------|------|
| Sample ID | 1706277-06B MSD | Batch ID: | 81153 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | MSD | Run ID: | ICP-MS5_170630A | Analysis Date: | 6/30/2017 12:19:00 PM | Prep Date: | 6/29/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.265 | 0.500 | 0.200 | 0 | 133 | 80 | 120 | 200 | 15 | SR |
| Molybdenum | 0.188 | 0.250 | 0.200 | 0 | 93.8 | 80 | 120 | 0.026 | 15 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706278
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170703B

The QC data in batch 81152 applies to the following samples: 1706278-01A, 1706278-02A

| | | | |
|---------------------------|--------------------------------|---|-----------------------------|
| Sample ID MB-81152 | Batch ID: 81152 | TestNo: SW6020A | Units: mg/L |
| SampType: MBLK | Run ID: ICP-MS5_170703B | Analysis Date: 7/3/2017 2:47:00 PM | Prep Date: 6/28/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|-----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | <0.000800 | 0.00250 | | | | | | | | |
| Arsenic | <0.00200 | 0.00500 | | | | | | | | |
| Barium | <0.00300 | 0.0100 | | | | | | | | |
| Beryllium | <0.000300 | 0.00100 | | | | | | | | |
| Boron | <0.0100 | 0.0300 | | | | | | | | |
| Cadmium | <0.000300 | 0.00100 | | | | | | | | |
| Calcium | <0.100 | 0.300 | | | | | | | | |
| Chromium | <0.00200 | 0.00500 | | | | | | | | |
| Cobalt | <0.00300 | 0.00500 | | | | | | | | |
| Lead | <0.000300 | 0.00100 | | | | | | | | |
| Magnesium | <0.100 | 0.300 | | | | | | | | |
| Molybdenum | <0.00200 | 0.00500 | | | | | | | | |
| Potassium | <0.100 | 0.300 | | | | | | | | |
| Selenium | <0.00200 | 0.00500 | | | | | | | | |
| Sodium | <0.100 | 0.300 | | | | | | | | |
| Thallium | <0.000500 | 0.00150 | | | | | | | | |

| | | | |
|----------------------------|--------------------------------|---|-----------------------------|
| Sample ID LCS-81152 | Batch ID: 81152 | TestNo: SW6020A | Units: mg/L |
| SampType: LCS | Run ID: ICP-MS5_170703B | Analysis Date: 7/3/2017 2:49:00 PM | Prep Date: 6/28/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.205 | 0.00250 | 0.200 | 0 | 103 | 80 | 120 | | | |
| Arsenic | 0.202 | 0.00500 | 0.200 | 0 | 101 | 80 | 120 | | | |
| Barium | 0.211 | 0.0100 | 0.200 | 0 | 105 | 80 | 120 | | | |
| Beryllium | 0.216 | 0.00100 | 0.200 | 0 | 108 | 80 | 120 | | | |
| Boron | 0.211 | 0.0300 | 0.200 | 0 | 106 | 80 | 120 | | | |
| Cadmium | 0.215 | 0.00100 | 0.200 | 0 | 108 | 80 | 120 | | | |
| Calcium | 5.17 | 0.300 | 5.00 | 0 | 103 | 80 | 120 | | | |
| Chromium | 0.206 | 0.00500 | 0.200 | 0 | 103 | 80 | 120 | | | |
| Cobalt | 0.209 | 0.00500 | 0.200 | 0 | 105 | 80 | 120 | | | |
| Lead | 0.196 | 0.00100 | 0.200 | 0 | 97.8 | 80 | 120 | | | |
| Magnesium | 5.17 | 0.300 | 5.00 | 0 | 103 | 80 | 120 | | | |
| Molybdenum | 0.209 | 0.00500 | 0.200 | 0 | 104 | 80 | 120 | | | |
| Potassium | 4.86 | 0.300 | 5.00 | 0 | 97.1 | 80 | 120 | | | |
| Selenium | 0.201 | 0.00500 | 0.200 | 0 | 100 | 80 | 120 | | | |
| Sodium | 5.32 | 0.300 | 5.00 | 0 | 106 | 80 | 120 | | | |
| Thallium | 0.198 | 0.00150 | 0.200 | 0 | 98.8 | 80 | 120 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706278
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170703B

| | | | | | | | |
|-----------|------------|-----------|-----------------|----------------|---------------------|------------|-----------|
| Sample ID | LCSD-81152 | Batch ID: | 81152 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | LCSD | Run ID: | ICP-MS5_170703B | Analysis Date: | 7/3/2017 2:51:00 PM | Prep Date: | 6/28/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | 0.207 | 0.00250 | 0.200 | 0 | 103 | 80 | 120 | 0.738 | 15 | |
| Arsenic | 0.203 | 0.00500 | 0.200 | 0 | 102 | 80 | 120 | 0.488 | 15 | |
| Barium | 0.208 | 0.0100 | 0.200 | 0 | 104 | 80 | 120 | 1.18 | 15 | |
| Beryllium | 0.214 | 0.00100 | 0.200 | 0 | 107 | 80 | 120 | 0.937 | 15 | |
| Boron | 0.210 | 0.0300 | 0.200 | 0 | 105 | 80 | 120 | 0.533 | 15 | |
| Cadmium | 0.214 | 0.00100 | 0.200 | 0 | 107 | 80 | 120 | 0.787 | 15 | |
| Calcium | 5.21 | 0.300 | 5.00 | 0 | 104 | 80 | 120 | 0.724 | 15 | |
| Chromium | 0.207 | 0.00500 | 0.200 | 0 | 104 | 80 | 120 | 0.466 | 15 | |
| Cobalt | 0.212 | 0.00500 | 0.200 | 0 | 106 | 80 | 120 | 1.15 | 15 | |
| Lead | 0.197 | 0.00100 | 0.200 | 0 | 98.3 | 80 | 120 | 0.540 | 15 | |
| Magnesium | 5.17 | 0.300 | 5.00 | 0 | 103 | 80 | 120 | 0.005 | 15 | |
| Molybdenum | 0.208 | 0.00500 | 0.200 | 0 | 104 | 80 | 120 | 0.620 | 15 | |
| Potassium | 4.87 | 0.300 | 5.00 | 0 | 97.4 | 80 | 120 | 0.260 | 15 | |
| Selenium | 0.199 | 0.00500 | 0.200 | 0 | 99.5 | 80 | 120 | 0.800 | 15 | |
| Sodium | 5.32 | 0.300 | 5.00 | 0 | 106 | 80 | 120 | 0.029 | 15 | |
| Thallium | 0.199 | 0.00150 | 0.200 | 0 | 99.6 | 80 | 120 | 0.765 | 15 | |

| | | | | | | | |
|-----------|----------------|-----------|-----------------|----------------|---------------------|------------|-----------|
| Sample ID | 1706277-06A SD | Batch ID: | 81152 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | SD | Run ID: | ICP-MS5_170703B | Analysis Date: | 7/3/2017 2:56:00 PM | Prep Date: | 6/28/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | <0.00400 | 0.0125 | 0 | 0 | | | | 0 | 10 | |
| Arsenic | <0.0100 | 0.0250 | 0 | 0.00917 | | | | 0 | 10 | |
| Barium | 0.0743 | 0.0500 | 0 | 0.0767 | | | | 3.18 | 10 | |
| Beryllium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Boron | 0.140 | 0.150 | 0 | 0.122 | | | | 14.3 | 10 | R |
| Cadmium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Chromium | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Cobalt | <0.0150 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Lead | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Magnesium | 23.7 | 1.50 | 0 | 23.3 | | | | 1.84 | 10 | |
| Molybdenum | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Potassium | 1.45 | 1.50 | 0 | 1.44 | | | | 1.05 | 10 | |
| Selenium | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Thallium | <0.00250 | 0.00750 | 0 | 0 | | | | 0 | 10 | |

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|---------------------|------------|-----------|
| Sample ID | 1706277-06A PDS | Batch ID: | 81152 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | PDS | Run ID: | ICP-MS5_170703B | Analysis Date: | 7/3/2017 3:21:00 PM | Prep Date: | 6/28/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.201 | 0.00250 | 0.200 | 0 | 101 | 80 | 120 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706278
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170703B

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|---------------------|------------|-----------|
| Sample ID | 1706277-06A PDS | Batch ID: | 81152 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | PDS | Run ID: | ICP-MS5_170703B | Analysis Date: | 7/3/2017 3:21:00 PM | Prep Date: | 6/28/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Arsenic | 0.206 | 0.00500 | 0.200 | 0.00917 | 98.6 | 80 | 120 | | | |
| Barium | 0.268 | 0.0100 | 0.200 | 0.0767 | 95.8 | 80 | 120 | | | |
| Beryllium | 0.218 | 0.00100 | 0.200 | 0 | 109 | 80 | 120 | | | |
| Boron | 0.360 | 0.0300 | 0.200 | 0.122 | 119 | 80 | 120 | | | |
| Cadmium | 0.204 | 0.00100 | 0.200 | 0 | 102 | 80 | 120 | | | |
| Chromium | 0.209 | 0.00500 | 0.200 | 0 | 105 | 80 | 120 | | | |
| Cobalt | 0.201 | 0.00500 | 0.200 | 0 | 101 | 80 | 120 | | | |
| Lead | 0.194 | 0.00100 | 0.200 | 0 | 96.8 | 80 | 120 | | | |
| Magnesium | 27.5 | 0.300 | 5.00 | 23.3 | 84.4 | 80 | 120 | | | |
| Molybdenum | 0.198 | 0.00500 | 0.200 | 0 | 99.0 | 80 | 120 | | | |
| Potassium | 5.99 | 0.300 | 5.00 | 1.44 | 91.1 | 80 | 120 | | | |
| Selenium | 0.185 | 0.00500 | 0.200 | 0 | 92.6 | 80 | 120 | | | |
| Thallium | 0.194 | 0.00150 | 0.200 | 0 | 97.0 | 80 | 120 | | | |

| | | | | | | | |
|-----------|----------------|-----------|-----------------|----------------|---------------------|------------|-----------|
| Sample ID | 1706277-06A MS | Batch ID: | 81152 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | MS | Run ID: | ICP-MS5_170703B | Analysis Date: | 7/3/2017 3:23:00 PM | Prep Date: | 6/28/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.214 | 0.00250 | 0.200 | 0 | 107 | 80 | 120 | | | |
| Arsenic | 0.207 | 0.00500 | 0.200 | 0.00917 | 98.7 | 80 | 120 | | | |
| Barium | 0.288 | 0.0100 | 0.200 | 0.0767 | 106 | 80 | 120 | | | |
| Beryllium | 0.216 | 0.00100 | 0.200 | 0 | 108 | 80 | 120 | | | |
| Boron | 0.338 | 0.0300 | 0.200 | 0.122 | 108 | 80 | 120 | | | |
| Cadmium | 0.214 | 0.00100 | 0.200 | 0 | 107 | 80 | 120 | | | |
| Calcium | 126 | 0.300 | 5.00 | 126 | 2.44 | 80 | 120 | | | S |
| Chromium | 0.203 | 0.00500 | 0.200 | 0 | 102 | 80 | 120 | | | |
| Cobalt | 0.200 | 0.00500 | 0.200 | 0 | 99.8 | 80 | 120 | | | |
| Lead | 0.195 | 0.00100 | 0.200 | 0 | 97.4 | 80 | 120 | | | |
| Magnesium | 27.6 | 0.300 | 5.00 | 23.3 | 87.1 | 80 | 120 | | | |
| Molybdenum | 0.216 | 0.00500 | 0.200 | 0 | 108 | 80 | 120 | | | |
| Potassium | 6.09 | 0.300 | 5.00 | 1.44 | 93.1 | 80 | 120 | | | |
| Selenium | 0.191 | 0.00500 | 0.200 | 0 | 95.4 | 80 | 120 | | | |
| Sodium | 127 | 0.300 | 5.00 | 127 | 12.9 | 80 | 120 | | | S |
| Thallium | 0.198 | 0.00150 | 0.200 | 0 | 99.0 | 80 | 120 | | | |

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|---------------------|------------|-----------|
| Sample ID | 1706277-06A MSD | Batch ID: | 81152 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | MSD | Run ID: | ICP-MS5_170703B | Analysis Date: | 7/3/2017 3:25:00 PM | Prep Date: | 6/28/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.211 | 0.00250 | 0.200 | 0 | 105 | 80 | 120 | 1.61 | 15 | |
| Arsenic | 0.204 | 0.00500 | 0.200 | 0.00917 | 97.2 | 80 | 120 | 1.39 | 15 | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706278
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170703B

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|---------------------|------------|-----------|
| Sample ID | 1706277-06A MSD | Batch ID: | 81152 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | MSD | Run ID: | ICP-MS5_170703B | Analysis Date: | 7/3/2017 3:25:00 PM | Prep Date: | 6/28/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|-------|----------|-----------|-------|----------|------|
| Barium | 0.283 | 0.0100 | 0.200 | 0.0767 | 103 | 80 | 120 | 1.84 | 15 | |
| Beryllium | 0.215 | 0.00100 | 0.200 | 0 | 107 | 80 | 120 | 0.451 | 15 | |
| Boron | 0.348 | 0.0300 | 0.200 | 0.122 | 113 | 80 | 120 | 2.72 | 15 | |
| Cadmium | 0.211 | 0.00100 | 0.200 | 0 | 105 | 80 | 120 | 1.70 | 15 | |
| Calcium | 124 | 0.300 | 5.00 | 126 | -40.7 | 80 | 120 | 1.73 | 15 | S |
| Chromium | 0.202 | 0.00500 | 0.200 | 0 | 101 | 80 | 120 | 0.581 | 15 | |
| Cobalt | 0.200 | 0.00500 | 0.200 | 0 | 100 | 80 | 120 | 0.144 | 15 | |
| Lead | 0.192 | 0.00100 | 0.200 | 0 | 95.8 | 80 | 120 | 1.72 | 15 | |
| Magnesium | 27.3 | 0.300 | 5.00 | 23.3 | 80.6 | 80 | 120 | 1.18 | 15 | |
| Molybdenum | 0.212 | 0.00500 | 0.200 | 0 | 106 | 80 | 120 | 1.83 | 15 | |
| Potassium | 5.98 | 0.300 | 5.00 | 1.44 | 91.0 | 80 | 120 | 1.75 | 15 | |
| Selenium | 0.190 | 0.00500 | 0.200 | 0 | 94.8 | 80 | 120 | 0.609 | 15 | |
| Sodium | 127 | 0.300 | 5.00 | 127 | 5.50 | 80 | 120 | 0.290 | 15 | S |
| Thallium | 0.194 | 0.00150 | 0.200 | 0 | 97.0 | 80 | 120 | 2.06 | 15 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706278
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170705A

The QC data in batch 81152 applies to the following samples: 1706278-01A, 1706278-02A

| | | | | | | | | | | |
|---------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID MB-81152 | Batch ID: 81152 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: MBLK | Run ID: ICP-MS5_170705A | Analysis Date: 7/5/2017 11:43:00 AM | Prep Date: 6/28/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | <0.00500 | 0.0100 | | | | | | | | |

| | | | | | | | | | | |
|----------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID LCS-81152 | Batch ID: 81152 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: LCS | Run ID: ICP-MS5_170705A | Analysis Date: 7/5/2017 11:45:00 AM | Prep Date: 6/28/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.211 | 0.0100 | 0.200 | 0 | 105 | 80 | 120 | | | |

| | | | | | | | | | | |
|-----------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|-------|----------|------|
| Sample ID LCSD-81152 | Batch ID: 81152 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: LCSD | Run ID: ICP-MS5_170705A | Analysis Date: 7/5/2017 11:47:00 AM | Prep Date: 6/28/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.209 | 0.0100 | 0.200 | 0 | 104 | 80 | 120 | 0.918 | 15 | |

| | | | | | | | | | | |
|---------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1706277-06A SD | Batch ID: 81152 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: SD | Run ID: ICP-MS5_170705A | Analysis Date: 7/5/2017 11:52:00 AM | Prep Date: 6/28/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|---------|-----|------|---|-----|--|--|--|------|----|--|
| Calcium | 128 | 15.0 | 0 | 124 | | | | 2.63 | 10 | |
| Sodium | 130 | 15.0 | 0 | 128 | | | | 1.10 | 10 | |

| | | | | | | | | | | |
|----------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1706277-06A PDS | Batch ID: 81152 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: PDS | Run ID: ICP-MS5_170705A | Analysis Date: 7/5/2017 12:10:00 PM | Prep Date: 6/28/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|---------|-----|------|------|-----|------|----|-----|--|--|--|
| Calcium | 172 | 3.00 | 50.0 | 124 | 95.0 | 80 | 120 | | | |
| Sodium | 178 | 3.00 | 50.0 | 129 | 99.4 | 80 | 120 | | | |

| | | | | | | | | | | |
|---------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1706277-06A MS | Batch ID: 81152 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: MS | Run ID: ICP-MS5_170705A | Analysis Date: 7/5/2017 12:12:00 PM | Prep Date: 6/28/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|---------|-------|-------|-------|---|-----|----|-----|--|--|--|
| Lithium | 0.231 | 0.100 | 0.200 | 0 | 116 | 80 | 120 | | | |
|---------|-------|-------|-------|---|-----|----|-----|--|--|--|

| | | | | | | | | | | |
|----------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1706277-06A MSD | Batch ID: 81152 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: MSD | Run ID: ICP-MS5_170705A | Analysis Date: 7/5/2017 12:14:00 PM | Prep Date: 6/28/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|---------|-------|-------|-------|---|-----|----|-----|------|----|--|
| Lithium | 0.236 | 0.100 | 0.200 | 0 | 118 | 80 | 120 | 2.19 | 15 | |
|---------|-------|-------|-------|---|-----|----|-----|------|----|--|

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706278
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170705A

| | | | | | | | |
|-----------|----------------|-----------|-----------------|----------------|---------------------|------------|---------------------------------------|
| Sample ID | 1706277-06A SD | Batch ID: | 81152 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | SD | Run ID: | ICP-MS5_170705A | Analysis Date: | 7/5/2017 1:27:00 PM | Prep Date: | 6/28/2017 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit HighLimit %RPD RPDLimit Qual |
| Lithium | | <0.0250 | 0.0500 | 0 | 0.0197 | | 0 10 |

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|---------------------|------------|---------------------------------------|
| Sample ID | 1706277-06A PDS | Batch ID: | 81152 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | PDS | Run ID: | ICP-MS5_170705A | Analysis Date: | 7/5/2017 1:45:00 PM | Prep Date: | 6/28/2017 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit HighLimit %RPD RPDLimit Qual |
| Lithium | | 0.223 | 0.0100 | 0.200 | 0.0197 | 101 | 80 120 |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706278
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170705A

The QC data in batch 81153 applies to the following samples: 1706278-01B, 1706278-02B

| | | | | | | | | | | |
|------------|----------------|-----------|-----------------|----------------|----------------------|------------|-----------|------|----------|------|
| Sample ID | 1706277-06B SD | Batch ID: | 81153 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | SD | Run ID: | ICP-MS5_170705A | Analysis Date: | 7/5/2017 11:01:00 AM | Prep Date: | 6/29/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | <0.0250 | 0.0500 | 0 | 0.0196 | | | | 0 | 10 | |
| Molybdenum | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |

| | | | | | | | | | | |
|------------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|------|----------|------|
| Sample ID | 1706277-06B PDS | Batch ID: | 81153 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | PDS | Run ID: | ICP-MS5_170705A | Analysis Date: | 7/5/2017 11:19:00 AM | Prep Date: | 6/29/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.209 | 0.0100 | 0.200 | 0.0196 | 94.4 | 80 | 120 | | | |
| Molybdenum | 0.182 | 0.00500 | 0.200 | 0 | 90.9 | 80 | 120 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706278
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_170627A

The QC data in batch 81147 applies to the following samples: 1706278-01C, 1706278-02C

| | | | |
|---------------------------|---------------------------------|--|------------------------------|
| Sample ID MB-81147 | Batch ID: 81147 | TestNo: M2320 B | Units: mg/L @ pH 4.22 |
| SampType: MBLK | Run ID: TITRATOR_170627A | Analysis Date: 6/27/2017 2:36:00 PM | Prep Date: 6/27/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Total (As CaCO3) | <20.0 | 20.0 | | | | | | | | |

| | | | |
|----------------------------|---------------------------------|--|------------------------------|
| Sample ID LCS-81147 | Batch ID: 81147 | TestNo: M2320 B | Units: mg/L @ pH 4.15 |
| SampType: LCS | Run ID: TITRATOR_170627A | Analysis Date: 6/27/2017 2:40:00 PM | Prep Date: 6/27/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Total (As CaCO3) | 51.0 | 20.0 | 50.00 | 0 | 102 | 74 | 129 | | | |

| | | | |
|----------------------------------|---------------------------------|--|------------------------------|
| Sample ID 1706278-01C-DUP | Batch ID: 81147 | TestNo: M2320 B | Units: mg/L @ pH 4.51 |
| SampType: DUP | Run ID: TITRATOR_170627A | Analysis Date: 6/27/2017 2:54:00 PM | Prep Date: 6/27/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | 184 | 20.0 | 0 | 184.9 | | | | 0.488 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | 184 | 20.0 | 0 | 184.9 | | | | 0.488 | 20 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

2609 North River Road, Port Allen, Louisiana 70767
(800) 401-4277 -- FAX (225) 381-2996



ARS International, LLC
Laboratory Analysis Report

ARS1-17-01848

Prepared for:

B-Environmental

Kevin Baros
1606 East Brazos Street
Suite D
Victoria, TX 77901

dbenviro@suddenlinkmail.com; cbenviro@suddenlinkmail.com
swbenviro@suddenlinkmail.com

Phone: 361-572-8224
Fax: 361-572-4115



Project Manager Review



Management Review

Notes: ARS International, LLC assumes no liability for the use or the interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

Contact Person: Questions regarding this analytical report should be addressed to:

Project Manager
ProjectManagers@amrad.com
Phone: 225.381.2991
Fax: 225.381.2996



LELAP Cert# 01949



2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01848

Request or PO Number: N/A

Client Sample ID: S171731617 (BATCH 56859)

ARS Sample ID: ARS1-17-01848-001

Sample Collection Date: 06/22/17

Date Received: 06/23/17

Sample Matrix: Aqueous

Report Date: 07/24/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.215 | 0.128 | 0.150 | 0.057 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 07/19/17 9:21 | SCAUSEY | 108% |
| Ra-228 | -0.194 | 0.732 | 1.355 | 0.629 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/12/17 12:19 | SCAUSEY | 87% |

Project Manager Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

LELAP Certificate# 01949



2609 North River Road, Port Allen, Louisiana 70767
 1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01848

Request or PO Number: N/A

Client Sample ID: S171731618 (BATCH 56859)

ARS Sample ID: ARS1-17-01848-002

Sample Collection Date: 06/22/17

Date Received: 06/23/17

Sample Matrix: Aqueous

Report Date: 07/24/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.154 | 0.113 | 0.148 | 0.056 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 07/19/17 9:21 | SCAUSEY | 109% |
| Ra-228 | 0.950 | 0.974 | 1.595 | 0.751 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/12/17 12:19 | SCAUSEY | 86% |

Project Manager Review

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1 (800) 401-4277 FAX (225) 381-2996

QC Results Report

Sample Delivery Group: ARS1-17-01848

Laboratory Control Sample Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | LCS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|----------------------|
| ARS1-B17-01375 | LCS | RA-226 | 23.217 | 3.753 | 0.106 | 27.545 | N/A | pCi/L | ARS-010/EPA 903 | 7/19/17 9:21 | SC | 84 | 75%-125% |
| ARS1-B17-01375 | LCS | RA-228 | 37.334 | 6.220 | 1.089 | 39.784 | N/A | pCi/L | ARS-010/EPA 904 | 7/19/17 9:21 | SC | 94 | 75%-125% |

Blank Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|
| ARS1-B17-01375 | MBL | RA-226 | 0.047 | 0.059 | 0.097 | NA | U | pCi/L | ARS-010/EPA 903 | 7/19/17 9:21 | SC |
| ARS1-B17-01375 | MBL | RA-228 | 0.085 | 0.375 | 0.664 | NA | U | pCi/L | ARS-010/EPA 904 | 7/19/17 9:21 | SC |

RER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | RER | RER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01375 | LCSD | RA-226 | 23.217 | 3.753 | 23.497 | 3.803 | N/A | pCi/L | ARS-010/EPA 903 | 7/19/17 9:21 | SC | 0.04 | < 1 |
| ARS1-B17-01375 | LCSD | RA-228 | 37.334 | 6.220 | 36.006 | 5.998 | N/A | pCi/L | ARS-010/EPA 904 | 7/19/17 9:21 | SC | 0.11 | < 1 |

DER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | DER | DER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01375 | LCSD | RA-226 | 23.217 | 3.753 | 23.497 | 3.803 | N/A | pCi/L | ARS-010/EPA 903 | 7/19/17 9:21 | SC | 0.05 | < 3 |
| ARS1-B17-01375 | LCSD | RA-228 | 37.334 | 6.220 | 36.006 | 5.998 | N/A | pCi/L | ARS-010/EPA 904 | 7/19/17 9:21 | SC | 0.15 | < 3 |

Project Manager Review

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LELAP Certificate# 01949

NELAP Certificate # EB7558



2809 North River Road • Port Allen, Louisiana 70767

1 (800) 401-4277 • Fax (225) 381-2896

Notes (Case Narrative):

Comments:

- 1.0) All MDA/MDC values are calculated on a sample specific basis.
- 2.0) Soil and Sludge analysis are reported on a wet basis or an as received basis unless otherwise indicated.
- 3.0) Data in this report are within the limits of uncertainty specified in the reference method unless otherwise specified.
- 4.0) Modified analysis procedures are procedures that are modified to meet the certain specifications. An example may be the use of a water method to analyze a solid matrix due to the lack of an officially recognized procedure for the analysis of the solid matrix. Modified analyses are indicated by the subsequent addition of "m" to the procedure number (i.e. 900.0M).
- 5.0) Total activity is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring radioactive decay chains and other prominent radioactive nuclides. Total activity may be lower than the actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not representative of nuclides that emit solely alpha or beta particles.
- 6.0) Ra-228 is determined via secular equilibrium with its daughter, Actinium 228 (Gamma Spectroscopy only).
- 7.0) U-238 is determined via secular equilibrium with its daughter, Thorium 234 (Gamma Spectroscopy only).
- 8.0) All gamma spectroscopy was performed utilizing high purity germanium detectors (HPGe).
- 9.0) ARS makes every attempt to match sample density to calibrated density; however, in some cases, it is not practical or possible to do so and data results may be affected (Gamma Spectroscopy only).
- 10.0) Gamma spectroscopy results are calculated values based on the ORTEC® GammaVision ENV32 Analysis Engine.
- 11.0) ACLASS DOD and ISO 17025 certification applies only to the following analytes and methods: Gross Alpha and Gross Beta (EPA 900, SM7110B&C, SW846 9310); Radium 226 (EPA 903, EPA 903.1, SM 7500 Ra-B, SW846 9315); Radium 228 (EPA 904, SM 7500 Ra-B SW846 9320); Iodine-131(EPA 901.1); Uranium by ICPMS (EPA 200.8); Strontium 89/90 (EPA 905, Eichrom SRW01, HASL 300 Sr-03-RC); Tritium (EPA 906, EPA 906M); Gamma Emitters (EPA 901.1, SM7120B, HASL 300 Ga-01-R); Americium-241, Curium 242/244, Plutonium 239/240 and 241, Thorium 228/230/232, Uranium 234/233 and 238 (Eichrom ACW03 VBS); Lead 210 (HASL 300 Pb-01-RC, Eichrom OTW01); Polonium 210 (HASL 300 Po-01-RC, HASL 300 Po-02-RC); Technetium-99 (Eichrom TCW02, Eichrom TCS01M).

Method References:

- 1.0) EPA 600/4-80-032; Prescribed Procedures for the Measurements of Radioactivity in Drinking Water, August 1980.
- 2.0) Standard Methods for the Examination of Water and Wastewater (On-Line Edition)
- 3.0) EPA SW-846; Test Methods for Evaluating Solid Waste, (On-Line edition)
- 4.0) EPA 600/4/79-020; Methods for Chemical Analysis of Water and Waste, March 1983.
- 5.0) HASL 300; The Procedures Manual of the Environmental Measurements Laboratory, Volume I, 28th Edition February, 1997.

Definitions:

| | |
|----------|---|
| CRDL | Contract Required Detection Limit |
| CSU | Combined Standard Uncertainty |
| DLC | Decision Level Concentration (ANSI N42.23) or critical level |
| DO | Duplicate Original |
| DUP | Method Duplicate |
| LCS/LCSD | Laboratory Control Sample/Laboratory Control Sample Duplicate |
| MDA | Minimum Detectable Activity |
| MDC | (Minimum Detectable Concentration) minimum concentration of the analyte that ARS can detect utilizing the specific analysis |
| MBL | Method Blank |
| MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| N/A | Not Applicable |
| NP | Not Provided |
| NR | Not Referenced |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |

Data Qualifiers:

| | |
|----|--|
| B | The analyte is found in both the associated method blank and the sample. This flag indicates probable blank contamination. |
| D | Sample analysis accomplished through dilution. |
| J | The reported result is an estimated value above the limit of detection but outside of quantitation range (e.g., matrix interference was observed). |
| Q | One or more quality control criteria failed (e.g., LCS recovery, surrogate spike recovery, or CCV recovery). |
| U | Activity is below the MDC, MDA, MDL, or LOD |
| N | The analyte is a tentatively identified compound using mass spectrometry or any non-customer requested compounds that are tentatively identified. |
| * | LCS/LCSD or MS/MSD fails RPD criteria. |
| S | Spike |
| SC | Subcontracted out to another qualified laboratory |
| H | Holding time exceeded |

ARS-059-010
Revision: 9.1
Revision Date: 03-14-2017

LELAP Cert# 01949

NELAP Cert# E87558

B Environmental Laboratory, LLC
 1606 E Brazos Suite D Victoria, Texas 77901 Ph: (361) 572-8224

Chain Of Custody Recd

Batch # **56859**

TEMP UN-C: **4.1** Page **4** of **10**

Customer / Report Information: **Coletto Creek Power** Billing Information: Check box if Billing is the same as Report Information

Name: **Coletto Creek Power** Address: **Coletto Creek Power** Attention: **Richard Coleman** PO # **1606 E Brazos Suite D Victoria, Texas 77901**

Attention: **Rick Coleman** Address: **P. O. Box 8, Fannin, TX 77960** Project: **CCR Sampling** Comments: **None**

Phone: **361-788-5145** EMAIL: **richard.coleman@dvneav.com** Requested Analysis: **D** Completed By laboratory: **Richard Coleman**

| Client / Field Sample ID | Collected | | Matrix | Container | Preservative | Metals* | | | | | | Custody Seals Present |
|--------------------------|-----------|------|--------|-----------|--------------|---------|----|----|-----|----|-----|-----------------------|
| | Date | Time | | | | As | Cr | Fe | SO4 | pH | TDS | |

| | | | | | | | | | | | | | | |
|------|---------|-----|------|---|-----------------------------------|---|---|---|---|---|---|---|---|------------|
| MW-6 | 6-22-17 | 915 | G WW | P | 1L 500mL H2SO4 H3PO4 ICE | <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | X | X | X | X | X | X | X | S171731617 |
|------|---------|-----|------|---|-----------------------------------|---|---|---|---|---|---|---|---|------------|

| | | | | | | | | | | | | | | |
|------|-------|--|------|---|-----------------------------------|---|---|---|---|---|---|---|---|------------|
| MW-7 | 10/14 | | G WW | P | 1L 500mL H2SO4 H3PO4 ICE | <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | X | X | X | X | X | X | X | S171731618 |
|------|-------|--|------|---|-----------------------------------|---|---|---|---|---|---|---|---|------------|

| | | | | | | | | | | | | | | |
|--|--|--|------|---|-----------------------------------|---|---|---|---|---|---|---|---|--|
| | | | G WW | P | 1L 500mL H2SO4 H3PO4 ICE | <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | X | X | X | X | X | X | X | |
|--|--|--|------|---|-----------------------------------|---|---|---|---|---|---|---|---|--|

| | | | | | | | | | | | | | | |
|--|--|--|------|---|-----------------------------------|---|---|---|---|---|---|---|---|--|
| | | | G WW | P | 1L 500mL H2SO4 H3PO4 ICE | <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | X | X | X | X | X | X | X | |
|--|--|--|------|---|-----------------------------------|---|---|---|---|---|---|---|---|--|

| | | | | | | | | | | | | | | |
|--|--|--|------|---|-----------------------------------|---|---|---|---|---|---|---|---|--|
| | | | G WW | P | 1L 500mL H2SO4 H3PO4 ICE | <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | X | X | X | X | X | X | X | |
|--|--|--|------|---|-----------------------------------|---|---|---|---|---|---|---|---|--|

| | | | | | | | | | | | | | | |
|--|--|--|------|---|-----------------------------------|---|---|---|---|---|---|---|---|--|
| | | | G WW | P | 1L 500mL H2SO4 H3PO4 ICE | <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | X | X | X | X | X | X | X | |
|--|--|--|------|---|-----------------------------------|---|---|---|---|---|---|---|---|--|

| | | | | | | | | | | | | | | |
|--|--|--|------|---|-----------------------------------|---|---|---|---|---|---|---|---|--|
| | | | G WW | P | 1L 500mL H2SO4 H3PO4 ICE | <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | X | X | X | X | X | X | X | |
|--|--|--|------|---|-----------------------------------|---|---|---|---|---|---|---|---|--|

Required Turnaround: Routine (6-10 Business days) Expedite / Rush: 1 Business Day 2 Business Days 3 Business days 5 Business days Other

Surcharge will apply to PUSH/AT Authorized BY: **[Signature]** Container Type: **P=Plastic, G=Glass, V=Voa, O=Other** Carrier ID: **[Blank]**

Relinquished By: **[Signature]** Date: **6-22-17** Time: **10:15**
 Relinquished By: **[Signature]** Date: **6-22-17** Time: **10:15**
 Relinquished By: **[Signature]** Date: **6-22-17** Time: **10:15**

1606 E Brazos Suite D, Victoria, Texas 77901 Ph. (361) 572-8224 Fax (361) 572-4115 Toll Free 1-800-460-8223 Form #1000-0-2 REV 1.2 Email: kbenfro@suddenlinkmail.com www.benviro.com

BatchNo: 56929

SAMPLE REPORT



T104704328-17-14

Business

Coletto Creek Power - R Coleman
PO Box 8
Fannin TX 77960
Att: Rick Coleman



Laboratory

B Environmental, LLC.
1606 E Brazos, Suite D
Victoria TX 77901
ph. 361-572-8224

Reference Information

Project: CCR Sampling
Printed: Friday, August
04, 2017

Re: Coletto Creek Power - R Coleman

Dear: Rick Coleman

Attached are the results for sample(s) received on 6/26/2017

The analytical results relate only to the samples tested.
All supporting quality data meets the requirements of NELAC unless noted in the case narrative section of the report.

This report contains 43 pages (including the cover page)

If you have any questions concerning this report, please do not hesitate to call (361) 572-8224 or Fax us at (361) 572-4115

Respectfully Submitted,

Kevin Baros
Laboratory Director



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B Environmental, LLC.
1606 E Brazos, Suite D

BatchNo: 56929

Victoria TX 77901

Batch No: 56929

Sample Receipt Checklist

Date Received: 6/26/2017

Project: CCR Sampling Received By: Woodruff

Login completed by: Woodruff 6/26/2017
Signature LoginDate:

Carrier Name Walk In

- Shipping container/cooler in good condition? YES NO Not Present
- Custody seals intact on shipping container/cooler? YES NO Not Present
- Custody seals intact on sample bottles? YES NO Not Present
- Chain of Custody present? YES NO
- Chain of Custody signed when relinquished and received? YES NO
- Chain of Custody agrees with sample labels? YES NO
- Samples in proper container/bottles? YES NO
- Sample containers intact? YES NO
- Sufficient sample volume for indicated tests? YES NO
- All samples received within holding times? YES NO
- Container/Temp Blank - temperature in compliance? YES NO >0 <6 °C On Ice
- Water - VOA vials have zero headspace? Bubble < 6mm? YES NO No VOA Vials submitted
- Water - pH acceptable upon receipt? YES NO Not Applicable

*TEMP 2.0/1.8 pH Adjusted? No Checked By L. Vahrenkamp

Any No and/or N/A (not applicable) response must be detailed in the comments section below.

Client contacted PersonContacted
Contacted by: Date Contacted:

Regarding

Comments

Therm. #3. HNO3 Lot# 2-42-12. Sample "Blank" bottle cracked in transit to ARS for the Radium226/Radium228 analysis, per client no resample will be submitted.

Corrective Action



B Environmental, LLC. 1606 E Brazos, Suite D Victoria TX 77901

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B Environmental, LLC.

BatchNo:

56929

Page 3 of 43

1606 E Brazos, Suite D

Victoria TX 77901

Sample Report Information



| | | | | | |
|-------------------|-------------------|-------------------|------------|-----------------|---------------|
| Sample ID: | S171771705 | Client ID: | BLK | Sampler: | Client |
|-------------------|-------------------|-------------------|------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman

Batch No: 56929

Study: Wastewater

Sampled: 6/26/2017

3:10 PM

Project: CCR Sampling

Location: Blank

Type: Grab

Notes:

Matrix: Wastewater

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | < 1 | mg/L | EPA 300 | K Baros | 6/27/2017 16:40 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | < 20 | mg/L | SM 2320 B | | 6/29/2017 14:28 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/29/2017 14:28 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | < 20 | mg/L | SM 2320 B | | 6/29/2017 14:28 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | < 0.25 | mg/L | EPA 300 | K Baros | 6/27/2017 16:40 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 6.68 | SU | SM 4500-H+B | C Watts | 6/26/2017 16:40 | 2 | 2 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | < 25 | mg/L | SM2540C | C Watts | 6/28/2017 14:00 | 25 | 25 | | | | <input type="checkbox"/> B Environmental-NON NELAC |
| SUB-OUT-Metals | C | # | | | 7/10/2017 11:58 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | < 1 | mg/L | EPA 300 | K Baros | 6/27/2017 16:40 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |



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Sample Report Information



| | | | | | |
|-------------------|-------------------|-------------------|-------------|-----------------|---------------|
| Sample ID: | S171771708 | Client ID: | MW-5 | Sampler: | Client |
|-------------------|-------------------|-------------------|-------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman

Batch No: 56929

Study: Wastewater

Sampled: 6/26/2017

11:18 AM

Project: CCR Sampling

Location: MW #5

Type: Grab

Notes:

Matrix: Wastewater

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 139 | mg/L | EPA 300 | K Baros | 6/27/2017 17:18 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 287 | mg/L | SM 2320 B | | 6/29/2017 14:39 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/29/2017 14:39 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 287 | mg/L | SM 2320 B | | 6/29/2017 14:39 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.54 | mg/L | EPA 300 | K Baros | 6/27/2017 17:18 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7 | SU | SM 4500-H+B | C Watts | 6/26/2017 16:40 | 2 | 2 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 900 | mg/L | SM2540C | C Watts | 6/28/2017 14:00 | 25 | 25 | | | <input type="checkbox"/> | B Environmental-NON NELAC |
| SUB-OUT-Metals | C | # | | | 7/10/2017 11:54 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 184 | mg/L | EPA 300 | K Baros | 6/27/2017 17:18 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/28/2017 9:36 | | | | | <input checked="" type="checkbox"/> | ARS International |



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Sample Report Information



| | | | | | |
|------------|------------|------------|------|----------|--------|
| Sample ID: | S171771709 | Client ID: | MW-9 | Sampler: | Client |
|------------|------------|------------|------|----------|--------|

Client: Coletto Creek Power - R Coleman
 Study: Wastewater
 Project: CCR Sampling
 Location: MW #9
 Notes:

Batch No: 56929
 Sampled: 6/26/2017 1:36 PM
 Type: Grab
 Matrix: Wastewater

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 67 | mg/L | EPA 300 | K Baros | 6/27/2017 19:12 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 136 | mg/L | SM 2320 B | | 6/29/2017 15:00 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/29/2017 15:00 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 136 | mg/L | SM 2320 B | | 6/29/2017 15:00 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 1.4 | mg/L | EPA 300 | K Baros | 6/27/2017 19:12 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.31 | SU | SM 4500-H+B | C Watts | 6/28/2017 16:40 | 2 | 2 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 407 | mg/L | SM2540C | C Watts | 6/28/2017 14:00 | 25 | 25 | | | | <input type="checkbox"/> B Environmental-NON NELAC |
| SUB-OUT-Metals | C | # | | | 7/10/2017 12:00 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 61 | mg/L | EPA 300 | K Baros | 6/27/2017 19:12 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/28/2017 9:36 | | | | | | <input checked="" type="checkbox"/> ARS International |



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Sample Report Information



| | | | | | |
|------------|------------|------------|-------|----------|--------|
| Sample ID: | S171771710 | Client ID: | MW-9A | Sampler: | Client |
|------------|------------|------------|-------|----------|--------|

Client: Coletto Creek Power - R Coleman

Batch No: 56929

Study: Wastewater

Sampled: 6/26/2017

2:08 PM

Project: CCR Sampling

Location: MW 9A

Type: Grab

Notes:

Matrix: Wastewater

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 62 | mg/L | EPA 300 | K Baros | 6/27/2017 21:07 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 138 | mg/L | SM 2320 B | | 6/29/2017 15:06 | 10 | 10 | | | | <input checked="" type="checkbox"/> PCS Cert No. T104704361-08 |
| Alkalinity, Carbonate | 20 | mg/L | SM 2320 B | | 6/29/2017 15:06 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 138 | mg/L | SM 2320 B | | 6/29/2017 15:06 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 1.3 | mg/L | EPA 300 | K Baros | 6/27/2017 21:07 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.5 | SU | SM 4500-H+B | C Watts | 6/26/2017 16:40 | 2 | 2 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 390 | mg/L | SM2540C | C Watts | 6/28/2017 14:00 | 25 | 25 | | | | <input type="checkbox"/> B Environmental-NON NELAC |
| SUB-OUT-Metals | C | # | | | 7/10/2017 12:02 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 65 | mg/L | EPA 300 | K Baros | 6/27/2017 21:07 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/28/2017 9:36 | | | | | | <input checked="" type="checkbox"/> ARS International |



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Sample Report Information



| | | | | | |
|------------|------------|------------|-------|----------|--------|
| Sample ID: | S171771711 | Client ID: | MW-10 | Sampler: | Client |
|------------|------------|------------|-------|----------|--------|

Client: Coleta Creek Power - R Coleman

Batch No: 56929

Study: Wastewater

Sampled: 6/26/2017

2:40 PM

Project: CCR Sampling

Location: MW #10

Type: Grab

Notes:

Matrix: Wastewater

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 78 | mg/L | EPA 300 | K Baros | 6/27/2017 21:45 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 236 | mg/L | SM 2320 B | | 6/29/2017 15:13 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/29/2017 15:13 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 236 | mg/L | SM 2320 B | | 6/29/2017 15:13 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.84 | mg/L | EPA 300 | K Baros | 6/27/2017 21:45 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.33 | SU | SM 4500-H+B | C Watts | 6/26/2017 16:40 | 2 | 2 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 530 | mg/L | SM2540C | C Watts | 6/28/2017 14:00 | 25 | 25 | | | <input type="checkbox"/> | B Environmental-NON NELAC |
| SUB-OUT-Metals | C | # | | | 7/10/2017 12:04 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 92 | mg/L | EPA 300 | K Baros | 6/27/2017 21:45 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/28/2017 9:36 | | | | | <input checked="" type="checkbox"/> | ARS International |



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Sample Report Information



| | | | | | |
|-------------------|-------------------|-------------------|--------------|-----------------|---------------|
| Sample ID: | S171771712 | Client ID: | MW-11 | Sampler: | Client |
|-------------------|-------------------|-------------------|--------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman
Study: Wastewater

Batch No: 56929
Sampled: 6/26/2017 9:06 AM

Project: CCR Sampling

Location: MW #11

Type: Grab

Notes:

Matrix: Wastewater

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| .- Chloride, IC | 44 | mg/L | EPA 300 | K Baros | 6/27/2017 22:23 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 147 | mg/L | SM 2320 B | | 6/29/2017 15:19 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/29/2017 15:19 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 147 | mg/L | SM 2320 B | | 6/29/2017 15:19 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 1 | mg/L | EPA 300 | K Baros | 6/27/2017 22:23 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.59 | SU | SM 4500-H+B | C Watts | 6/26/2017 16:40 | 2 | 2 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 407 | mg/L | SM2540C | C Watts | 6/29/2017 16:10 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/10/2017 12:06 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 43 | mg/L | EPA 300 | K Baros | 6/27/2017 22:23 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/28/2017 9:36 | | | | | <input checked="" type="checkbox"/> | ARS International |



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Sample Report Information



| | | | |
|------------------------------|-------------------------|-----------------|---------------|
| Sample ID: S171771714 | Client ID: DUP 1 | Sampler: | Client |
|------------------------------|-------------------------|-----------------|---------------|

Client: Coleta Creek Power - R Coleman
Study: Wastewater
Project: CCR Sampling
Location: Dup
Notes:

Batch No: 56929
Sampled: 6/26/2017 12:00 AM
Type: Grab
Matrix: Wastewater

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 44 | mg/L | EPA 300 | K Baros | 6/27/2017 23:39 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 148 | mg/L | SM 2320 B | | 6/29/2017 15:30 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 6/29/2017 15:30 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 148 | mg/L | SM 2320 B | | 6/29/2017 15:30 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 1 | mg/L | EPA 300 | K Baros | 6/27/2017 23:39 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.47 | SU | SM 4500-H+B | C Watts | 6/26/2017 16:40 | 2 | 2 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 347 | mg/L | SM2540C | C Watts | 6/28/2017 14:00 | 25 | 25 | | | | <input type="checkbox"/> B Environmental-NON NELAC |
| SUB-OUT-Metals | C | # | | | 7/10/2017 12:10 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 44 | mg/L | EPA 300 | K Baros | 6/27/2017 23:39 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/28/2017 9:36 | | | | | | <input checked="" type="checkbox"/> ARS International |



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QA Summary Report

| Parameter | ID | Result | Ref Value | Amt Added | LOQ | Qualifier | Control | Flag | Comments |
|--|------------|-----------|-----------|-----------|------|-----------|----------|------|---|
| .Method Blank | | | | | | | | | |
| - Chloride, IC 6/27/2017 12:06 | Q171881024 | <1mg/L | 0 | | 1 | | 1 | | Blank Acceptable. |
| Fluoride, IC 6/27/2017 12:06 | Q171881024 | <0.25mg/L | 0 | | 0.25 | | 0.25 | | Blank Acceptable. |
| Nitrate-N, IC 6/27/2017 12:06 | Q171881024 | <0.06mg/L | 0 | | 0.06 | | 0.06 | | Blank Acceptable. |
| Nitrite-N, IC 6/27/2017 12:06 | Q171881024 | <0.08mg/L | 0 | | 0.08 | | 0.08 | | Blank Acceptable. |
| Solids, Total Dissolved 6/29/2017 16:10 | Q171811357 | <25mg/L | 0 | | 10 | | 25 | | Blank Acceptable. |
| Solids, Total Dissolved 6/28/2017 14:00 | Q171801028 | <25mg/L | 0 | | 10 | | 25 | | Blank Acceptable. |
| Sulfate, IC 6/27/2017 12:06 | Q171881024 | <1mg/L | 0 | | 1 | | 1 | | Blank Acceptable. |
| Duplicate | | | | | | | | | |
| pH (Standard Units) 6/26/2017 16:40 | Q171801132 | 7SU | 7 | | 2 | 0.0% | 20 | | Duplicate RPD Acceptable. |
| Solids, Total Dissolved 6/28/2017 14:00 | Q171801030 | 907mg/L | 900 | | 10 | 0.8% | 20 | | Duplicate RPD Acceptable. |
| Solids, Total Dissolved 6/29/2017 16:10 | Q171811359 | 7180mg/L | 7160 | | 10 | 0.3% | 20 | | Duplicate RPD Acceptable. |
| Laboratory Control Standard | | | | | | | | | |
| - Chloride, IC 6/27/2017 12:44 | Q171881026 | 26.4mg/L | 25 | | 1 | 105.6% | 80 - 120 | | Standard Recovery Acceptable. Standard RPD Acceptable. |
| Fluoride, IC 6/27/2017 12:44 | Q171881026 | 2.22mg/L | 2 | | 0.25 | 111.0% | 80 - 120 | | Standard Recovery Acceptable. Standard RPD Acceptable. |
| Nitrate-N, IC 6/27/2017 12:44 | Q171881026 | 0.46mg/L | 0.45 | | 0.06 | 102.2% | 80 - 120 | | Standard Recovery Acceptable. Standard RPD Acceptable. |
| Nitrite-N, IC 6/27/2017 12:44 | Q171881026 | 0.61mg/L | 0.61 | | 0.08 | 100.0% | 80 - 120 | | Standard Recovery Acceptable. Standard RPD Acceptable. |
| pH (Standard Units) 6/26/2017 16:40 | Q171801130 | 7.01SU | 7 | | 2 | 100.1% | 80 - 120 | | Standard Recovery Acceptable. Standard RPD Acceptable. |
| Sulfate, IC 6/27/2017 12:44 | Q171881026 | 26.2mg/L | 25 | | 1 | 104.8% | 80 - 120 | | Standard Recovery Acceptable. Standard RPD Acceptable. |



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| Parameter | ID | Result | Ref Value | Amt Added | LOQ | Qualifier | Control | Flag | Comments |
|--|------------|-----------|--|-----------|--|---|----------------|------|---|
| Matrix Spike | | | | | | | | | |
| - Chloride, IC 6/27/2017 17:56 | Q171881027 | 152mg/L | 151 | 25 | 1 | 104.0% 0.7% | 80 - 120 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Fluoride, IC 6/27/2017 17:56 | Q171881027 | 2.41mg/L | 2.49 | 2 | 0.25 | 96.0% 3.3% | 80 - 120 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Nitrate-N, IC 6/27/2017 14:38 | Q171881027 | 10.83mg/L | 10.81 | 2.25 | 0.06 | 100.9% 0.2% | 80 - 120 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Nitrite-N, IC 6/27/2017 14:38 | Q171881027 | 2.91mg/L | 3.05 | 3.05 | 0.08 | 95.4% 4.7% | 80 - 120 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Sulfate, IC 6/27/2017 17:56 | Q171881027 | 189mg/L | 190.6 | 25 | 1 | 93.6% 0.8% | 70 - 130 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Matrix Spike Dup | | | | | | | | | |
| - Chloride, IC 6/27/2017 18:34 | Q17188102A | 152mg/L | 151 | 25 | 1 | 104.0% 0.7% | 80 - 120 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Fluoride, IC 6/27/2017 18:34 | Q17188102A | 2.36mg/L | 2.49 | 2 | 0.25 | 93.5% 5.4% | 80 - 120 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Nitrate-N, IC 6/27/2017 15:16 | Q17188102A | 10.97mg/L | 10.81 | 2.25 | 0.06 | 107.1% 1.5% | 80 - 120 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Nitrite-N, IC 6/27/2017 15:16 | Q17188102A | 2.89mg/L | 3.05 | 3.05 | 0.08 | 94.8% 5.4% | 80 - 120 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Sulfate, IC 6/27/2017 18:34 | Q17188102A | 192mg/L | 190.6 | 25 | 1 | 105.6% 0.7% | 70 - 130 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Flag and Qualifier Legend | | | | | | | | | |
| Negative - Result Detected | | | <i>MDL = Method Detection Limit</i> | | | <i>DF = Dilution Factor</i> | | | |
| Caution - Problem Detected | | | <i>LOQ = Limit of Quantitation</i> | | | <i>j = Analyte detected between MDL and LOQ</i> | | | |
| Warning - Null Value | | | <i>S = surrogate standard out of limit</i> | | | <i>H = sample out of hold time</i> | | | |
| MS, MSD, RPD- Failure may occur due to matrix interference, data released per QA plan | | | | | | | | | |
| Friday, August 04, 2017 | | | | | B Environmental - LDMS QA Report Summary | | | | |

Note:

THANK YOU!



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DHL Analytical, Inc.

Date: 11-Jul-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Lab Order: 1706306

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition and Standard Methods.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives except where noted in the following. For Total Metals Analysis, the recovery of Magnesium for the Post Digestion Spike (1706306-02 PDS) was below the method control limits. This is flagged accordingly in the QC Summary Report. This analyte was within method control limits in the associated Serial dilution. No further corrective action was taken.

For Total Metals Analysis, the RPD of Boron for the Serial Dilution (1706306-02 SD) was above the method control limit. This is flagged accordingly in the QC Summary Report. This analyte was within method control limits in the associated Post Digestion Spike. No further corrective action was taken.

For Total/Dissolved Metals Analysis, the result of Dissolved Molybdenum for two samples was slightly higher than the result of Total Molybdenum. The results were within acceptable analytical variation limits. No further corrective action was taken.

DHL Analytical, Inc.

Date: 11-Jul-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (56929)
Lab Order: 1706306

Client Sample ID: Blank
Lab ID: 1706306-01
Alternate ID: S171771705
Collection Date: 06/26/17 03:10 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: RO | | | |
| Dissolved Lithium | <0.00500 | 0.00500 | 0.0100 | | mg/L | 1 | 07/07/17 03:32 PM |
| Dissolved Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/07/17 03:32 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 07/10/17 11:58 AM |
| Arsenic | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 11:58 AM |
| Barium | <0.00300 | 0.00300 | 0.0100 | | mg/L | 1 | 07/10/17 11:58 AM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 11:58 AM |
| Boron | <0.0100 | 0.0100 | 0.0300 | | mg/L | 1 | 07/11/17 11:43 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 11:58 AM |
| Calcium | <0.100 | 0.100 | 0.300 | | mg/L | 1 | 07/10/17 11:58 AM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 11:58 AM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 07/10/17 11:58 AM |
| Lead | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 11:58 AM |
| Lithium | <0.00500 | 0.00500 | 0.0100 | | mg/L | 1 | 07/10/17 11:58 AM |
| Magnesium | <0.100 | 0.100 | 0.300 | | mg/L | 1 | 07/10/17 11:58 AM |
| Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 11:58 AM |
| Potassium | <0.100 | 0.100 | 0.300 | | mg/L | 1 | 07/10/17 11:58 AM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 11:58 AM |
| Sodium | <0.100 | 0.100 | 0.300 | | mg/L | 1 | 07/10/17 11:58 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 07/10/17 11:58 AM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 07/07/17 09:53 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.46 | 1 | 06/29/17 02:28 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.46 | 1 | 06/29/17 02:28 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.46 | 1 | 06/29/17 02:28 PM |
| Alkalinity, Total (As CaCO3) | <20.0 | 20.0 | 20.0 | | mg/L @ pH 4.46 | 1 | 06/29/17 02:28 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 11-Jul-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (56929)
Lab Order: 1706306

Client Sample ID: MW-5
Lab ID: 1706306-02
Alternate ID: S171771708
Collection Date: 06/26/17 11:18 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: RO | | | |
| Dissolved Lithium | 0.0178 | 0.00500 | 0.0100 | | mg/L | 1 | 07/07/17 03:28 PM |
| Dissolved Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/07/17 03:28 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 07/10/17 11:54 AM |
| Arsenic | 0.00955 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 11:54 AM |
| Barium | 0.0735 | 0.00300 | 0.0100 | | mg/L | 1 | 07/10/17 11:54 AM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 11:54 AM |
| Boron | 0.121 | 0.0100 | 0.0300 | | mg/L | 1 | 07/11/17 11:39 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 11:54 AM |
| Calcium | 129 | 1.00 | 3.00 | | mg/L | 10 | 07/11/17 12:22 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 11:54 AM |
| Cobalt | 0.00343 | 0.00300 | 0.00500 | J | mg/L | 1 | 07/10/17 11:54 AM |
| Lead | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 11:54 AM |
| Lithium | 0.0204 | 0.00500 | 0.0100 | | mg/L | 1 | 07/10/17 11:54 AM |
| Magnesium | 22.5 | 0.100 | 0.300 | | mg/L | 1 | 07/10/17 11:54 AM |
| Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 11:54 AM |
| Potassium | 1.56 | 0.100 | 0.300 | | mg/L | 1 | 07/10/17 11:54 AM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 11:54 AM |
| Sodium | 127 | 1.00 | 3.00 | | mg/L | 10 | 07/11/17 12:22 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 07/10/17 11:54 AM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 07/07/17 09:55 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 287 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/29/17 02:39 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/29/17 02:39 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/29/17 02:39 PM |
| Alkalinity, Total (As CaCO3) | 287 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 06/29/17 02:39 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 11-Jul-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR Sampling (56929)
Lab Order: 1706306

Client Sample ID: MW-9
Lab ID: 1706306-03
Alternate ID: S171771709
Collection Date: 06/26/17 01:36 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|---------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: RO | | | |
| Dissolved Lithium | <0.00500 | 0.00500 | 0.0100 | | mg/L | 1 | 07/07/17 03:33 PM |
| Dissolved Molybdenum | 0.106 | 0.00200 | 0.00500 | | mg/L | 1 | 07/07/17 03:33 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 07/10/17 12:00 PM |
| Arsenic | 0.0107 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:00 PM |
| Barium | 0.114 | 0.00300 | 0.0100 | | mg/L | 1 | 07/10/17 12:00 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 12:00 PM |
| Boron | 3.31 | 0.100 | 0.300 | | mg/L | 10 | 07/11/17 11:45 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 12:00 PM |
| Calcium | 60.6 | 1.00 | 3.00 | | mg/L | 10 | 07/11/17 11:45 AM |
| Chromium | 0.0102 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:00 PM |
| Cobalt | 0.00400 | 0.00300 | 0.00500 | J | mg/L | 1 | 07/10/17 12:00 PM |
| Lead | 0.00217 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 12:00 PM |
| Lithium | 0.00736 | 0.00500 | 0.0100 | J | mg/L | 1 | 07/10/17 12:00 PM |
| Magnesium | 7.83 | 0.100 | 0.300 | | mg/L | 1 | 07/10/17 12:00 PM |
| Molybdenum | 0.106 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:00 PM |
| Potassium | 1.41 | 0.100 | 0.300 | | mg/L | 1 | 07/10/17 12:00 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:00 PM |
| Sodium | 62.1 | 1.00 | 3.00 | | mg/L | 10 | 07/11/17 11:45 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 07/10/17 12:00 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 07/07/17 10:06 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 136 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 06/29/17 03:00 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 06/29/17 03:00 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 06/29/17 03:00 PM |
| Alkalinity, Total (As CaCO3) | 136 | 20.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 06/29/17 03:00 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 11-Jul-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (56929)
Lab Order: 1706306

Client Sample ID: MW-9A
Lab ID: 1706306-04
Alternate ID: S171771710
Collection Date: 06/26/17 02:08 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: RO | | | |
| Dissolved Lithium | 0.00554 | 0.00500 | 0.0100 | J | mg/L | 1 | 07/07/17 03:35 PM |
| Dissolved Molybdenum | 0.0787 | 0.00200 | 0.00500 | | mg/L | 1 | 07/07/17 03:35 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 07/10/17 12:02 PM |
| Arsenic | 0.0119 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:02 PM |
| Barium | 0.123 | 0.00300 | 0.0100 | | mg/L | 1 | 07/10/17 12:02 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 12:02 PM |
| Boron | 3.33 | 0.100 | 0.300 | | mg/L | 10 | 07/11/17 11:47 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 12:02 PM |
| Calcium | 85.8 | 1.00 | 3.00 | | mg/L | 10 | 07/11/17 11:47 AM |
| Chromium | 0.0117 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:02 PM |
| Cobalt | 0.00434 | 0.00300 | 0.00500 | J | mg/L | 1 | 07/10/17 12:02 PM |
| Lead | 0.00309 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 12:02 PM |
| Lithium | 0.00768 | 0.00500 | 0.0100 | J | mg/L | 1 | 07/10/17 12:02 PM |
| Magnesium | 9.07 | 0.100 | 0.300 | | mg/L | 1 | 07/10/17 12:02 PM |
| Molybdenum | 0.0763 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:02 PM |
| Potassium | 1.25 | 0.100 | 0.300 | | mg/L | 1 | 07/10/17 12:02 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:02 PM |
| Sodium | 62.1 | 1.00 | 3.00 | | mg/L | 10 | 07/11/17 11:47 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 07/10/17 12:02 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 07/07/17 10:09 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 138 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/29/17 03:06 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/29/17 03:06 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/29/17 03:06 PM |
| Alkalinity, Total (As CaCO3) | 138 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 06/29/17 03:06 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern J Analyte detected between MDL and RL
 MDL Method Detection Limit ND Not Detected at the Method Detection Limit
 RL Reporting Limit S Spike Recovery outside control limits Page 4 of 8

DHL Analytical, Inc.

Date: 11-Jul-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR Sampling (56929)
Lab Order: 1706306

Client Sample ID: MW-10
Lab ID: 1706306-05
Alternate ID: S171771711
Collection Date: 06/26/17 02:40 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: RO | | | |
| Dissolved Lithium | 0.0118 | 0.00500 | 0.0100 | | mg/L | 1 | 07/07/17 03:37 PM |
| Dissolved Molybdenum | 0.114 | 0.00200 | 0.00500 | | mg/L | 1 | 07/07/17 03:37 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 07/10/17 12:04 PM |
| Arsenic | 0.0160 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:04 PM |
| Barium | 0.0587 | 0.00300 | 0.0100 | | mg/L | 1 | 07/10/17 12:04 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 12:04 PM |
| Boron | 8.21 | 0.200 | 0.600 | | mg/L | 20 | 07/11/17 11:49 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 12:04 PM |
| Calcium | 63.4 | 2.00 | 6.00 | | mg/L | 20 | 07/11/17 11:49 AM |
| Chromium | 0.0177 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:04 PM |
| Cobalt | 0.00322 | 0.00300 | 0.00500 | J | mg/L | 1 | 07/10/17 12:04 PM |
| Lead | 0.000871 | 0.000300 | 0.00100 | J | mg/L | 1 | 07/10/17 12:04 PM |
| Lithium | 0.0137 | 0.00500 | 0.0100 | | mg/L | 1 | 07/10/17 12:04 PM |
| Magnesium | 9.76 | 0.100 | 0.300 | | mg/L | 1 | 07/10/17 12:04 PM |
| Molybdenum | 0.116 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:04 PM |
| Potassium | 1.00 | 0.100 | 0.300 | | mg/L | 1 | 07/10/17 12:04 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:04 PM |
| Sodium | 134 | 2.00 | 6.00 | | mg/L | 20 | 07/11/17 11:49 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 07/10/17 12:04 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 07/07/17 10:11 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 236 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 06/29/17 03:13 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 06/29/17 03:13 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 06/29/17 03:13 PM |
| Alkalinity, Total (As CaCO3) | 236 | 20.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 06/29/17 03:13 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern J Analyte detected between MDL and RL
 MDL Method Detection Limit ND Not Detected at the Method Detection Limit
 RL Reporting Limit S Spike Recovery outside control limits Page 5 of 8

DHL Analytical, Inc.

Date: 11-Jul-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR Sampling (56929)
Lab Order: 1706306

Client Sample ID: MW-11
Lab ID: 1706306-06
Alternate ID: S171771712
Collection Date: 06/26/17 09:06 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|-----------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: RO | | | |
| Dissolved Lithium | 0.0126 | 0.00500 | 0.0100 | | mg/L | 1 | 07/07/17 03:39 PM |
| Dissolved Molybdenum | 0.00817 | 0.00200 | 0.00500 | | mg/L | 1 | 07/07/17 03:39 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 07/10/17 12:06 PM |
| Arsenic | 0.0237 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:06 PM |
| Barium | 0.0954 | 0.00300 | 0.0100 | | mg/L | 1 | 07/10/17 12:06 PM |
| Beryllium | 0.000561 | 0.000300 | 0.00100 | J | mg/L | 1 | 07/10/17 12:06 PM |
| Boron | 1.15 | 0.100 | 0.300 | | mg/L | 10 | 07/11/17 11:51 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 12:06 PM |
| Calcium | 82.0 | 1.00 | 3.00 | | mg/L | 10 | 07/11/17 11:51 AM |
| Chromium | 0.0131 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:06 PM |
| Cobalt | 0.00494 | 0.00300 | 0.00500 | J | mg/L | 1 | 07/10/17 12:06 PM |
| Lead | 0.00593 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 12:06 PM |
| Lithium | 0.0176 | 0.00500 | 0.0100 | | mg/L | 1 | 07/10/17 12:06 PM |
| Magnesium | 6.37 | 0.100 | 0.300 | | mg/L | 1 | 07/10/17 12:06 PM |
| Molybdenum | 0.00796 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:06 PM |
| Potassium | 2.47 | 0.100 | 0.300 | | mg/L | 1 | 07/10/17 12:06 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:06 PM |
| Sodium | 61.2 | 1.00 | 3.00 | | mg/L | 10 | 07/11/17 11:51 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 07/10/17 12:06 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.000800 | 0.000800 | 0.000200 | | mg/L | 1 | 07/07/17 10:13 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 147 | 10.0 | 20.0 | | mg/L @ pH 4.47 | 1 | 06/29/17 03:19 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.47 | 1 | 06/29/17 03:19 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.47 | 1 | 06/29/17 03:19 PM |
| Alkalinity, Total (As CaCO3) | 147 | 20.0 | 20.0 | | mg/L @ pH 4.47 | 1 | 06/29/17 03:19 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern J Analyte detected between MDL and RL
 MDL Method Detection Limit ND Not Detected at the Method Detection Limit
 RL Reporting Limit S Spike Recovery outside control limits Page 6 of 8

DHL Analytical, Inc.

Date: 11-Jul-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR Sampling (56929)
Lab Order: 1706306

Client Sample ID: PS-3
Lab ID: 1706306-07
Alternate ID: S171771713
Collection Date: 06/26/17 09:38 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: RO | | | |
| Dissolved Lithium | 0.00982 | 0.00500 | 0.0100 | J | mg/L | 1 | 07/07/17 03:41 PM |
| Dissolved Molybdenum | 0.00423 | 0.00200 | 0.00500 | J | mg/L | 1 | 07/07/17 03:41 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 07/10/17 12:08 PM |
| Arsenic | 0.00829 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:08 PM |
| Barium | 0.117 | 0.00300 | 0.0100 | | mg/L | 1 | 07/10/17 12:08 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 12:08 PM |
| Boron | 1.36 | 0.100 | 0.300 | | mg/L | 10 | 07/11/17 11:53 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 12:08 PM |
| Calcium | 57.2 | 1.00 | 3.00 | | mg/L | 10 | 07/11/17 11:53 AM |
| Chromium | 0.0210 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:08 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 07/10/17 12:08 PM |
| Lead | 0.000486 | 0.000300 | 0.00100 | J | mg/L | 1 | 07/10/17 12:08 PM |
| Lithium | 0.0105 | 0.00500 | 0.0100 | | mg/L | 1 | 07/10/17 12:08 PM |
| Magnesium | 3.51 | 0.100 | 0.300 | | mg/L | 1 | 07/10/17 12:08 PM |
| Molybdenum | 0.00507 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:08 PM |
| Potassium | 2.15 | 0.100 | 0.300 | | mg/L | 1 | 07/10/17 12:08 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:08 PM |
| Sodium | 64.5 | 1.00 | 3.00 | | mg/L | 10 | 07/11/17 11:53 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 07/10/17 12:08 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 07/07/17 10:15 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 154 | 10.0 | 20.0 | | mg/L @ pH 4.49 | 1 | 06/29/17 03:24 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.49 | 1 | 06/29/17 03:24 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.49 | 1 | 06/29/17 03:24 PM |
| Alkalinity, Total (As CaCO3) | 154 | 20.0 | 20.0 | | mg/L @ pH 4.49 | 1 | 06/29/17 03:24 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern J Analyte detected between MDL and RL
 MDL Method Detection Limit ND Not Detected at the Method Detection Limit
 RL Reporting Limit S Spike Recovery outside control limits Page 7 of 8

DHL Analytical, Inc.

Date: 11-Jul-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR Sampling (56929)
Lab Order: 1706306

Client Sample ID: Dup 1
Lab ID: 1706306-08
Alternate ID: S171771714
Collection Date: 06/26/17
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: RO | | | |
| Dissolved Lithium | 0.0127 | 0.00500 | 0.0100 | | mg/L | 1 | 07/07/17 03:42 PM |
| Dissolved Molybdenum | 0.00752 | 0.00200 | 0.00500 | | mg/L | 1 | 07/07/17 03:42 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 07/10/17 12:10 PM |
| Arsenic | 0.0221 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:10 PM |
| Barium | 0.0837 | 0.00300 | 0.0100 | | mg/L | 1 | 07/10/17 12:10 PM |
| Beryllium | 0.000306 | 0.000300 | 0.00100 | J | mg/L | 1 | 07/10/17 12:10 PM |
| Boron | 1.11 | 0.100 | 0.300 | | mg/L | 10 | 07/11/17 11:55 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 12:10 PM |
| Calcium | 89.3 | 1.00 | 3.00 | | mg/L | 10 | 07/11/17 11:55 AM |
| Chromium | 0.00816 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:10 PM |
| Cobalt | 0.00358 | 0.00300 | 0.00500 | J | mg/L | 1 | 07/10/17 12:10 PM |
| Lead | 0.00372 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 12:10 PM |
| Lithium | 0.0163 | 0.00500 | 0.0100 | | mg/L | 1 | 07/10/17 12:10 PM |
| Magnesium | 5.18 | 0.100 | 0.300 | | mg/L | 1 | 07/10/17 12:10 PM |
| Molybdenum | 0.00788 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:10 PM |
| Potassium | 2.07 | 0.100 | 0.300 | | mg/L | 1 | 07/10/17 12:10 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:10 PM |
| Sodium | 61.9 | 1.00 | 3.00 | | mg/L | 10 | 07/11/17 11:55 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 07/10/17 12:10 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 07/07/17 10:18 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 148 | 10.0 | 20.0 | | mg/L @ pH 4.47 | 1 | 06/29/17 03:30 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.47 | 1 | 06/29/17 03:30 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.47 | 1 | 06/29/17 03:30 PM |
| Alkalinity, Total (As CaCO3) | 148 | 20.0 | 20.0 | | mg/L @ pH 4.47 | 1 | 06/29/17 03:30 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern J Analyte detected between MDL and RL
 MDL Method Detection Limit ND Not Detected at the Method Detection Limit
 RL Reporting Limit S Spike Recovery outside control limits Page 8 of 8

DHL Analytical, Inc.

Date: 11-Jul-17

CLIENT: B-Environmental
Work Order: 1706306
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_170707A

The QC data in batch 81287 applies to the following samples: 1706306-01A, 1706306-02A, 1706306-03A, 1706306-04A, 1706306-05A, 1706306-06A, 1706306-07A, 1706306-08A

| | | | |
|---------------------------|----------------------------------|---|----------------------------|
| Sample ID MB-81287 | Batch ID: 81287 | TestNo: SW7470A | Units: mg/L |
| SampType: MBLK | Run ID: CETAC2_HG_170707A | Analysis Date: 7/7/2017 9:35:08 AM | Prep Date: 7/6/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|------------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | <0.0000800 | 0.000200 | | | | | | | | |

| | | | |
|----------------------------|----------------------------------|---|----------------------------|
| Sample ID LCS-81287 | Batch ID: 81287 | TestNo: SW7470A | Units: mg/L |
| SampType: LCS | Run ID: CETAC2_HG_170707A | Analysis Date: 7/7/2017 9:44:13 AM | Prep Date: 7/6/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00201 | 0.000200 | 0.00200 | 0 | 101 | 85 | 115 | | | |

| | | | |
|-----------------------------|----------------------------------|---|----------------------------|
| Sample ID LCSD-81287 | Batch ID: 81287 | TestNo: SW7470A | Units: mg/L |
| SampType: LCSD | Run ID: CETAC2_HG_170707A | Analysis Date: 7/7/2017 9:46:28 AM | Prep Date: 7/6/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00199 | 0.000200 | 0.00200 | 0 | 99.5 | 85 | 115 | 1.00 | 15 | |

| | | | |
|---------------------------------|----------------------------------|---|----------------------------|
| Sample ID 1706306-02A SD | Batch ID: 81287 | TestNo: SW7470A | Units: mg/L |
| SampType: SD | Run ID: CETAC2_HG_170707A | Analysis Date: 7/7/2017 9:57:47 AM | Prep Date: 7/6/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|-----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | <0.000400 | 0.00100 | 0 | 0 | | | | 0 | 10 | |

| | | | |
|----------------------------------|----------------------------------|--|----------------------------|
| Sample ID 1706306-02A PDS | Batch ID: 81287 | TestNo: SW7470A | Units: mg/L |
| SampType: PDS | Run ID: CETAC2_HG_170707A | Analysis Date: 7/7/2017 10:00:03 AM | Prep Date: 7/6/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00237 | 0.000200 | 0.00250 | 0 | 94.8 | 85 | 115 | | | |

| | | | |
|---------------------------------|----------------------------------|--|----------------------------|
| Sample ID 1706306-02A MS | Batch ID: 81287 | TestNo: SW7470A | Units: mg/L |
| SampType: MS | Run ID: CETAC2_HG_170707A | Analysis Date: 7/7/2017 10:02:19 AM | Prep Date: 7/6/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00198 | 0.000200 | 0.00200 | 0 | 99.0 | 80 | 120 | | | |

| | | | |
|----------------------------------|----------------------------------|--|----------------------------|
| Sample ID 1706306-02A MSD | Batch ID: 81287 | TestNo: SW7470A | Units: mg/L |
| SampType: MSD | Run ID: CETAC2_HG_170707A | Analysis Date: 7/7/2017 10:04:35 AM | Prep Date: 7/6/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|-------|----------|------|
| Mercury | 0.00199 | 0.000200 | 0.00200 | 0 | 99.5 | 80 | 120 | 0.504 | 15 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706306
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170710C

The QC data in batch 81220 applies to the following samples: 1706306-01A, 1706306-02A, 1706306-03A, 1706306-04A, 1706306-05A, 1706306-06A, 1706306-07A, 1706306-08A

| Sample ID | MB-81220 | Batch ID: | 81220 | TestNo: | SW6020A | Units: | mg/L | | | |
|------------|-----------|-----------|-----------------|----------------|-----------------------|------------|-----------|------|----------|------|
| SampType: | MBLK | Run ID: | ICP-MS4_170710C | Analysis Date: | 7/10/2017 11:46:00 AM | Prep Date: | 6/30/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Antimony | <0.000800 | 0.00250 | | | | | | | | |
| Arsenic | <0.00200 | 0.00500 | | | | | | | | |
| Barium | <0.00300 | 0.0100 | | | | | | | | |
| Beryllium | <0.000300 | 0.00100 | | | | | | | | |
| Cadmium | <0.000300 | 0.00100 | | | | | | | | |
| Calcium | <0.100 | 0.300 | | | | | | | | |
| Chromium | <0.00200 | 0.00500 | | | | | | | | |
| Cobalt | <0.00300 | 0.00500 | | | | | | | | |
| Lead | <0.000300 | 0.00100 | | | | | | | | |
| Lithium | <0.00500 | 0.0100 | | | | | | | | |
| Magnesium | <0.100 | 0.300 | | | | | | | | |
| Molybdenum | <0.00200 | 0.00500 | | | | | | | | |
| Potassium | <0.100 | 0.300 | | | | | | | | |
| Selenium | <0.00200 | 0.00500 | | | | | | | | |
| Sodium | <0.100 | 0.300 | | | | | | | | |
| Thallium | <0.000500 | 0.00150 | | | | | | | | |

| Sample ID | LCS-81220 | Batch ID: | 81220 | TestNo: | SW6020A | Units: | mg/L | | | |
|------------|-----------|-----------|-----------------|----------------|-----------------------|------------|-----------|------|----------|------|
| SampType: | LCS | Run ID: | ICP-MS4_170710C | Analysis Date: | 7/10/2017 11:49:00 AM | Prep Date: | 6/30/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Antimony | 0.195 | 0.00250 | 0.200 | 0 | 97.6 | 80 | 120 | | | |
| Arsenic | 0.198 | 0.00500 | 0.200 | 0 | 99.0 | 80 | 120 | | | |
| Barium | 0.198 | 0.0100 | 0.200 | 0 | 99.0 | 80 | 120 | | | |
| Beryllium | 0.204 | 0.00100 | 0.200 | 0 | 102 | 80 | 120 | | | |
| Cadmium | 0.198 | 0.00100 | 0.200 | 0 | 99.2 | 80 | 120 | | | |
| Calcium | 5.17 | 0.300 | 5.00 | 0 | 103 | 80 | 120 | | | |
| Chromium | 0.205 | 0.00500 | 0.200 | 0 | 103 | 80 | 120 | | | |
| Cobalt | 0.203 | 0.00500 | 0.200 | 0 | 102 | 80 | 120 | | | |
| Lead | 0.197 | 0.00100 | 0.200 | 0 | 98.3 | 80 | 120 | | | |
| Lithium | 0.209 | 0.0100 | 0.200 | 0 | 105 | 80 | 120 | | | |
| Magnesium | 5.07 | 0.300 | 5.00 | 0 | 101 | 80 | 120 | | | |
| Molybdenum | 0.194 | 0.00500 | 0.200 | 0 | 97.2 | 80 | 120 | | | |
| Potassium | 5.13 | 0.300 | 5.00 | 0 | 103 | 80 | 120 | | | |
| Selenium | 0.201 | 0.00500 | 0.200 | 0 | 100 | 80 | 120 | | | |
| Sodium | 5.10 | 0.300 | 5.00 | 0 | 102 | 80 | 120 | | | |
| Thallium | 0.201 | 0.00150 | 0.200 | 0 | 100 | 80 | 120 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706306
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170710C

| | | | | | | | |
|-----------|-------------------|-----------|------------------------|----------------|------------------------------|------------|------------------|
| Sample ID | LCSD-81220 | Batch ID: | 81220 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | LCSD | Run ID: | ICP-MS4_170710C | Analysis Date: | 7/10/2017 11:50:00 AM | Prep Date: | 6/30/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | 0.198 | 0.00250 | 0.200 | 0 | 98.8 | 80 | 120 | 1.26 | 15 | |
| Arsenic | 0.197 | 0.00500 | 0.200 | 0 | 98.4 | 80 | 120 | 0.602 | 15 | |
| Barium | 0.198 | 0.0100 | 0.200 | 0 | 99.1 | 80 | 120 | 0.127 | 15 | |
| Beryllium | 0.205 | 0.00100 | 0.200 | 0 | 102 | 80 | 120 | 0.350 | 15 | |
| Cadmium | 0.198 | 0.00100 | 0.200 | 0 | 99.2 | 80 | 120 | 0.055 | 15 | |
| Calcium | 5.10 | 0.300 | 5.00 | 0 | 102 | 80 | 120 | 1.44 | 15 | |
| Chromium | 0.204 | 0.00500 | 0.200 | 0 | 102 | 80 | 120 | 0.731 | 15 | |
| Cobalt | 0.203 | 0.00500 | 0.200 | 0 | 102 | 80 | 120 | 0.028 | 15 | |
| Lead | 0.197 | 0.00100 | 0.200 | 0 | 98.5 | 80 | 120 | 0.229 | 15 | |
| Lithium | 0.206 | 0.0100 | 0.200 | 0 | 103 | 80 | 120 | 1.59 | 15 | |
| Magnesium | 5.07 | 0.300 | 5.00 | 0 | 101 | 80 | 120 | 0.130 | 15 | |
| Molybdenum | 0.196 | 0.00500 | 0.200 | 0 | 97.9 | 80 | 120 | 0.664 | 15 | |
| Potassium | 5.12 | 0.300 | 5.00 | 0 | 102 | 80 | 120 | 0.199 | 15 | |
| Selenium | 0.198 | 0.00500 | 0.200 | 0 | 99.1 | 80 | 120 | 1.40 | 15 | |
| Sodium | 5.06 | 0.300 | 5.00 | 0 | 101 | 80 | 120 | 0.737 | 15 | |
| Thallium | 0.202 | 0.00150 | 0.200 | 0 | 101 | 80 | 120 | 0.702 | 15 | |

| | | | | | | | |
|-----------|-----------------------|-----------|------------------------|----------------|------------------------------|------------|------------------|
| Sample ID | 1706306-02A SD | Batch ID: | 81220 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | SD | Run ID: | ICP-MS4_170710C | Analysis Date: | 7/10/2017 11:56:00 AM | Prep Date: | 6/30/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|----------|---------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | <0.00400 | 0.0125 | 0 | 0 | | | | 0 | 10 | |
| Arsenic | <0.0100 | 0.0250 | 0 | 0.00955 | | | | 0 | 10 | |
| Barium | 0.0746 | 0.0500 | 0 | 0.0735 | | | | 1.49 | 10 | |
| Beryllium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Cadmium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Chromium | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Cobalt | <0.0150 | 0.0250 | 0 | 0.00343 | | | | 0 | 10 | |
| Lead | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Lithium | <0.0250 | 0.0500 | 0 | 0.0204 | | | | 0 | 10 | |
| Magnesium | 23.1 | 1.50 | 0 | 22.5 | | | | 2.37 | 10 | |
| Molybdenum | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Potassium | 1.56 | 1.50 | 0 | 1.56 | | | | 0.131 | 10 | |
| Selenium | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Thallium | <0.00250 | 0.00750 | 0 | 0 | | | | 0 | 10 | |

| | | | | | | | |
|-----------|------------------------|-----------|------------------------|----------------|------------------------------|------------|------------------|
| Sample ID | 1706306-02A PDS | Batch ID: | 81220 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | PDS | Run ID: | ICP-MS4_170710C | Analysis Date: | 7/10/2017 12:16:00 PM | Prep Date: | 6/30/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.200 | 0.00250 | 0.200 | 0 | 99.9 | 80 | 120 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706306
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170710C

| Sample ID 1706306-02A PDS | | Batch ID: 81220 | | TestNo: SW6020A | | Units: mg/L | | | | |
|---------------------------|--------|-------------------------|-----------|--------------------------------------|------|----------------------|-----------|------|----------|------|
| SampType: PDS | | Run ID: ICP-MS4_170710C | | Analysis Date: 7/10/2017 12:16:00 PM | | Prep Date: 6/30/2017 | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Arsenic | 0.208 | 0.00500 | 0.200 | 0.00955 | 99.4 | 80 | 120 | | | |
| Barium | 0.272 | 0.0100 | 0.200 | 0.0735 | 99.3 | 80 | 120 | | | |
| Beryllium | 0.206 | 0.00100 | 0.200 | 0 | 103 | 80 | 120 | | | |
| Cadmium | 0.197 | 0.00100 | 0.200 | 0 | 98.6 | 80 | 120 | | | |
| Chromium | 0.211 | 0.00500 | 0.200 | 0 | 105 | 80 | 120 | | | |
| Cobalt | 0.206 | 0.00500 | 0.200 | 0.00343 | 101 | 80 | 120 | | | |
| Lead | 0.199 | 0.00100 | 0.200 | 0 | 99.3 | 80 | 120 | | | |
| Lithium | 0.222 | 0.0100 | 0.200 | 0.0204 | 101 | 80 | 120 | | | |
| Magnesium | 25.9 | 0.300 | 5.00 | 22.5 | 67.1 | 80 | 120 | | | S |
| Molybdenum | 0.198 | 0.00500 | 0.200 | 0 | 99.0 | 80 | 120 | | | |
| Potassium | 6.33 | 0.300 | 5.00 | 1.56 | 95.5 | 80 | 120 | | | |
| Selenium | 0.196 | 0.00500 | 0.200 | 0 | 97.9 | 80 | 120 | | | |
| Thallium | 0.201 | 0.00150 | 0.200 | 0 | 101 | 80 | 120 | | | |

| Sample ID 1706306-02A MS | | Batch ID: 81220 | | TestNo: SW6020A | | Units: mg/L | | | | |
|--------------------------|--------|-------------------------|-----------|--------------------------------------|------|----------------------|-----------|------|----------|------|
| SampType: MS | | Run ID: ICP-MS4_170710C | | Analysis Date: 7/10/2017 12:18:00 PM | | Prep Date: 6/30/2017 | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Antimony | 0.197 | 0.00250 | 0.200 | 0 | 98.3 | 80 | 120 | | | |
| Arsenic | 0.211 | 0.00500 | 0.200 | 0.00955 | 101 | 80 | 120 | | | |
| Barium | 0.272 | 0.0100 | 0.200 | 0.0735 | 99.5 | 80 | 120 | | | |
| Beryllium | 0.198 | 0.00100 | 0.200 | 0 | 99.1 | 80 | 120 | | | |
| Cadmium | 0.191 | 0.00100 | 0.200 | 0 | 95.7 | 80 | 120 | | | |
| Calcium | 132 | 0.300 | 5.00 | 126 | 113 | 80 | 120 | | | |
| Chromium | 0.199 | 0.00500 | 0.200 | 0 | 99.6 | 80 | 120 | | | |
| Cobalt | 0.201 | 0.00500 | 0.200 | 0.00343 | 98.6 | 80 | 120 | | | |
| Lead | 0.200 | 0.00100 | 0.200 | 0 | 99.8 | 80 | 120 | | | |
| Lithium | 0.219 | 0.0100 | 0.200 | 0.0204 | 99.2 | 80 | 120 | | | |
| Magnesium | 26.9 | 0.300 | 5.00 | 22.5 | 88.1 | 80 | 120 | | | |
| Molybdenum | 0.200 | 0.00500 | 0.200 | 0 | 100 | 80 | 120 | | | |
| Potassium | 6.66 | 0.300 | 5.00 | 1.56 | 102 | 80 | 120 | | | |
| Selenium | 0.200 | 0.00500 | 0.200 | 0 | 99.8 | 80 | 120 | | | |
| Sodium | 128 | 0.300 | 5.00 | 122 | 114 | 80 | 120 | | | |
| Thallium | 0.202 | 0.00150 | 0.200 | 0 | 101 | 80 | 120 | | | |

| Sample ID 1706306-02A MSD | | Batch ID: 81220 | | TestNo: SW6020A | | Units: mg/L | | | | |
|---------------------------|--------|-------------------------|-----------|--------------------------------------|------|----------------------|-----------|-------|----------|------|
| SampType: MSD | | Run ID: ICP-MS4_170710C | | Analysis Date: 7/10/2017 12:20:00 PM | | Prep Date: 6/30/2017 | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Antimony | 0.196 | 0.00250 | 0.200 | 0 | 98.0 | 80 | 120 | 0.355 | 15 | |
| Arsenic | 0.210 | 0.00500 | 0.200 | 0.00955 | 100 | 80 | 120 | 0.532 | 15 | |

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
 J Analyte detected between MDL and RL MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
 RL Reporting Limit S Spike Recovery outside control limits
 J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706306
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170710C

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|-----------------------|------------|-----------|
| Sample ID | 1706306-02A MSD | Batch ID: | 81220 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | MSD | Run ID: | ICP-MS4_170710C | Analysis Date: | 7/10/2017 12:20:00 PM | Prep Date: | 6/30/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|-------|----------|------|
| Barium | 0.272 | 0.0100 | 0.200 | 0.0735 | 99.4 | 80 | 120 | 0.060 | 15 | |
| Beryllium | 0.196 | 0.00100 | 0.200 | 0 | 98.2 | 80 | 120 | 0.919 | 15 | |
| Cadmium | 0.190 | 0.00100 | 0.200 | 0 | 94.9 | 80 | 120 | 0.811 | 15 | |
| Calcium | 131 | 0.300 | 5.00 | 126 | 93.7 | 80 | 120 | 0.731 | 15 | |
| Chromium | 0.201 | 0.00500 | 0.200 | 0 | 101 | 80 | 120 | 1.02 | 15 | |
| Cobalt | 0.202 | 0.00500 | 0.200 | 0.00343 | 99.4 | 80 | 120 | 0.855 | 15 | |
| Lead | 0.198 | 0.00100 | 0.200 | 0 | 98.8 | 80 | 120 | 1.09 | 15 | |
| Lithium | 0.217 | 0.0100 | 0.200 | 0.0204 | 98.1 | 80 | 120 | 1.04 | 15 | |
| Magnesium | 27.2 | 0.300 | 5.00 | 22.5 | 93.5 | 80 | 120 | 1.01 | 15 | |
| Molybdenum | 0.199 | 0.00500 | 0.200 | 0 | 99.6 | 80 | 120 | 0.557 | 15 | |
| Potassium | 6.55 | 0.300 | 5.00 | 1.56 | 99.9 | 80 | 120 | 1.69 | 15 | |
| Selenium | 0.198 | 0.00500 | 0.200 | 0 | 99.0 | 80 | 120 | 0.805 | 15 | |
| Sodium | 127 | 0.300 | 5.00 | 122 | 106 | 80 | 120 | 0.338 | 15 | |
| Thallium | 0.203 | 0.00150 | 0.200 | 0 | 102 | 80 | 120 | 0.871 | 15 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706306
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170711A

The QC data in batch 81220 applies to the following samples: 1706306-01A, 1706306-02A, 1706306-03A, 1706306-04A, 1706306-05A, 1706306-06A, 1706306-07A, 1706306-08A

Sample ID **MB-81220** Batch ID: **81220** TestNo: **SW6020A** Units: **mg/L**
 SampType: **MBLK** Run ID: **ICP-MS4_170711A** Analysis Date: **7/11/2017 11:31:00 AM** Prep Date: **6/30/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|--------|-----------|---------|------|----------|-----------|------|----------|------|
| Boron | <0.0100 | 0.0300 | | | | | | | | |

Sample ID **LCS-81220** Batch ID: **81220** TestNo: **SW6020A** Units: **mg/L**
 SampType: **LCS** Run ID: **ICP-MS4_170711A** Analysis Date: **7/11/2017 11:33:00 AM** Prep Date: **6/30/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|--------|-----------|---------|------|----------|-----------|------|----------|------|
| Boron | 0.216 | 0.0300 | 0.200 | 0 | 108 | 80 | 120 | | | |

Sample ID **LCSD-81220** Batch ID: **81220** TestNo: **SW6020A** Units: **mg/L**
 SampType: **LCSD** Run ID: **ICP-MS4_170711A** Analysis Date: **7/11/2017 11:35:00 AM** Prep Date: **6/30/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|--------|-----------|---------|------|----------|-----------|------|----------|------|
| Boron | 0.214 | 0.0300 | 0.200 | 0 | 107 | 80 | 120 | 1.03 | 15 | |

Sample ID **1706306-02A SD** Batch ID: **81220** TestNo: **SW6020A** Units: **mg/L**
 SampType: **SD** Run ID: **ICP-MS4_170711A** Analysis Date: **7/11/2017 11:41:00 AM** Prep Date: **6/30/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Boron | 0.137 | 0.150 | 0 | 0.121 | | | | 12.3 | 10 | R |

Sample ID **1706306-02A PDS** Batch ID: **81220** TestNo: **SW6020A** Units: **mg/L**
 SampType: **PDS** Run ID: **ICP-MS4_170711A** Analysis Date: **7/11/2017 12:01:00 PM** Prep Date: **6/30/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|--------|-----------|---------|------|----------|-----------|------|----------|------|
| Boron | 0.301 | 0.0300 | 0.200 | 0.121 | 89.9 | 80 | 120 | | | |

Sample ID **1706306-02A MS** Batch ID: **81220** TestNo: **SW6020A** Units: **mg/L**
 SampType: **MS** Run ID: **ICP-MS4_170711A** Analysis Date: **7/11/2017 12:03:00 PM** Prep Date: **6/30/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|--------|-----------|---------|------|----------|-----------|------|----------|------|
| Boron | 0.319 | 0.0300 | 0.200 | 0.121 | 98.9 | 80 | 120 | | | |

Sample ID **1706306-02A MSD** Batch ID: **81220** TestNo: **SW6020A** Units: **mg/L**
 SampType: **MSD** Run ID: **ICP-MS4_170711A** Analysis Date: **7/11/2017 12:05:00 PM** Prep Date: **6/30/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|--------|-----------|---------|------|----------|-----------|------|----------|------|
| Boron | 0.323 | 0.0300 | 0.200 | 0.121 | 101 | 80 | 120 | 1.30 | 15 | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706306
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170711A

| | | | | | | | |
|-----------|----------------|-----------|-----------------|----------------|-----------------------|------------|---------------------------------------|
| Sample ID | 1706306-02A SD | Batch ID: | 81220 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | SD | Run ID: | ICP-MS4_170711A | Analysis Date: | 7/11/2017 12:24:00 PM | Prep Date: | 6/30/2017 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit HighLimit %RPD RPDLimit Qual |

| | | | | | | | |
|---------|--|-----|------|---|-----|--|----------|
| Calcium | | 128 | 15.0 | 0 | 129 | | 0.551 10 |
| Sodium | | 129 | 15.0 | 0 | 127 | | 1.21 10 |

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|-----------------------|------------|---------------------------------------|
| Sample ID | 1706306-02A PDS | Batch ID: | 81220 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | PDS | Run ID: | ICP-MS4_170711A | Analysis Date: | 7/11/2017 12:44:00 PM | Prep Date: | 6/30/2017 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit HighLimit %RPD RPDLimit Qual |

| | | | | | | | |
|---------|--|-----|------|------|-----|------|--------|
| Calcium | | 178 | 3.00 | 50.0 | 129 | 98.4 | 80 120 |
| Sodium | | 175 | 3.00 | 50.0 | 127 | 95.8 | 80 120 |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental

Work Order: 1706306

Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170707C

The QC data in batch 81256 applies to the following samples: 1706306-01B, 1706306-02B, 1706306-03B, 1706306-04B, 1706306-05B, 1706306-06B, 1706306-07B, 1706306-08B

| Sample ID MB-81256 | Batch ID: 81256 | TestNo: SW6020A | Units: mg/L | | | | | | | |
|---------------------------|--------------------------------|---|----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: MBLK | Run ID: ICP-MS5_170707C | Analysis Date: 7/7/2017 3:21:00 PM | Prep Date: 7/3/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | <0.00500 | 0.0100 | | | | | | | | |
| Molybdenum | <0.00200 | 0.00500 | | | | | | | | |

| Sample ID LCS-81256 | Batch ID: 81256 | TestNo: SW6020A | Units: mg/L | | | | | | | |
|----------------------------|--------------------------------|---|----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: LCS | Run ID: ICP-MS5_170707C | Analysis Date: 7/7/2017 3:23:00 PM | Prep Date: 7/3/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.206 | 0.0100 | 0.200 | 0 | 103 | 80 | 120 | | | |
| Molybdenum | 0.194 | 0.00500 | 0.200 | 0 | 97.2 | 80 | 120 | | | |

| Sample ID LCSD-81256 | Batch ID: 81256 | TestNo: SW6020A | Units: mg/L | | | | | | | |
|-----------------------------|--------------------------------|---|----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: LCSD | Run ID: ICP-MS5_170707C | Analysis Date: 7/7/2017 3:24:00 PM | Prep Date: 7/3/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.202 | 0.0100 | 0.200 | 0 | 101 | 80 | 120 | 2.00 | 15 | |
| Molybdenum | 0.197 | 0.00500 | 0.200 | 0 | 98.6 | 80 | 120 | 1.41 | 15 | |

| Sample ID 1706306-02B SD | Batch ID: 81256 | TestNo: SW6020A | Units: mg/L | | | | | | | |
|---------------------------------|--------------------------------|---|----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: SD | Run ID: ICP-MS5_170707C | Analysis Date: 7/7/2017 3:30:00 PM | Prep Date: 7/3/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | <0.0250 | 0.0500 | 0 | 0.0178 | | | | 0 | 10 | |
| Molybdenum | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |

| Sample ID 1706306-02B PDS | Batch ID: 81256 | TestNo: SW6020A | Units: mg/L | | | | | | | |
|----------------------------------|--------------------------------|---|----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: PDS | Run ID: ICP-MS5_170707C | Analysis Date: 7/7/2017 3:48:00 PM | Prep Date: 7/3/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.212 | 0.0100 | 0.200 | 0.0178 | 96.9 | 80 | 120 | | | |
| Molybdenum | 0.184 | 0.00500 | 0.200 | 0 | 91.8 | 80 | 120 | | | |

| Sample ID 1706306-02B MS | Batch ID: 81256 | TestNo: SW6020A | Units: mg/L | | | | | | | |
|---------------------------------|--------------------------------|---|----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: MS | Run ID: ICP-MS5_170707C | Analysis Date: 7/7/2017 3:49:00 PM | Prep Date: 7/3/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Dissolved Lithium | 0.217 | 0.0100 | 0.200 | 0.0178 | 99.4 | 80 | 120 | | | |
| Dissolved Molybdenum | 0.191 | 0.00500 | 0.200 | 0 | 95.5 | 80 | 120 | | | |

- | | |
|--|---|
| <p>Qualifiers:</p> <ul style="list-style-type: none"> B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | <ul style="list-style-type: none"> DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified |
|--|---|

CLIENT: B-Environmental

Work Order: 1706306

Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170707C

| Sample ID | 1706306-02B MSD | Batch ID: | 81256 | TestNo: | SW6020A | Units: | mg/L | | | |
|----------------------|-----------------|-----------|-----------------|----------------|---------------------|------------|-----------|-------|----------|------|
| SampType: | MSD | Run ID: | ICP-MS5_170707C | Analysis Date: | 7/7/2017 3:51:00 PM | Prep Date: | 7/3/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Dissolved Lithium | 0.218 | 0.0100 | 0.200 | 0.0178 | 100 | 80 | 120 | 0.720 | 15 | |
| Dissolved Molybdenum | 0.191 | 0.00500 | 0.200 | 0 | 95.5 | 80 | 120 | 0.028 | 15 | |

Qualifiers:
 B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL

DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706306
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_170629A

The QC data in batch 81192 applies to the following samples: 1706306-01C, 1706306-02C, 1706306-03C, 1706306-04C, 1706306-05C, 1706306-06C, 1706306-07C, 1706306-08C

| Sample ID MB-81192 | Batch ID: 81192 | TestNo: M2320 B | Units: mg/L @ pH 4.37 | | | | | | | |
|------------------------------------|---------------------------------|---|------------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: MBLK | Run ID: TITRATOR_170629A | Analysis Date: 6/29/2017 11:12:00 AM | Prep Date: 6/29/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Alkalinity, Bicarbonate (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Total (As CaCO3) | <20.0 | 20.0 | | | | | | | | |

| Sample ID LCS-81192 | Batch ID: 81192 | TestNo: M2320 B | Units: mg/L @ pH 4.08 | | | | | | | |
|------------------------------|---------------------------------|---|------------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: LCS | Run ID: TITRATOR_170629A | Analysis Date: 6/29/2017 11:17:00 AM | Prep Date: 6/29/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Alkalinity, Total (As CaCO3) | 52.0 | 20.0 | 50.00 | 0 | 104 | 74 | 129 | | | |

| Sample ID 1706303-01D-DUP | Batch ID: 81192 | TestNo: M2320 B | Units: mg/L @ pH 4.49 | | | | | | | |
|------------------------------------|---------------------------------|--|------------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: DUP | Run ID: TITRATOR_170629A | Analysis Date: 6/29/2017 1:13:00 PM | Prep Date: 6/29/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Alkalinity, Bicarbonate (As CaCO3) | 42.9 | 20.0 | 0 | 44.20 | | | | 2.99 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | 42.9 | 20.0 | 0 | 44.20 | | | | 2.99 | 20 | |

| Sample ID 1706306-02C-DUP | Batch ID: 81192 | TestNo: M2320 B | Units: mg/L @ pH 4.52 | | | | | | | |
|------------------------------------|---------------------------------|--|------------------------------|---------|------|----------|-----------|-------|----------|------|
| SampType: DUP | Run ID: TITRATOR_170629A | Analysis Date: 6/29/2017 2:55:00 PM | Prep Date: 6/29/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Alkalinity, Bicarbonate (As CaCO3) | 288 | 20.0 | 0 | 287.1 | | | | 0.278 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | 288 | 20.0 | 0 | 287.1 | | | | 0.278 | 20 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

2609 North River Road, Port Allen, Louisiana 70767
(800) 401-4277 -- FAX (225) 381-2996



ARS International, LLC

Laboratory Analysis Report

ARS1-17-01932

Prepared for:

B-Environmental

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Project Manager Review

Management Review

Notes: ARS International, LLC assumes no liability for the use or the interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

Contact Person: Questions regarding this analytical report should be addressed to:

**Project Manager
ProjectManagers@amrad.com**

**Phone: 225.381.2991
Fax: 225.381.2996**



LELAP Cert# 01949



2609 North River Road, Port Allen, Louisiana 70767
 1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01932

Request or PO Number: N/A

Client Sample ID: S171771708 (Batch 56929)

ARS Sample ID: ARS1-17-01932-001

Sample Collection Date: 06/26/17

Date Received: 07/03/17

Sample Matrix: Aqueous

Report Date: 08/02/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.181 | 0.127 | 0.163 | 0.062 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 07/28/17 9:36 | CTRAMEL | 101% |
| Ra-228 | 0.931 | 0.739 | 1.163 | 0.539 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/21/17 12:10 | CTRAMEL | 94% |

Project Manager Review

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 1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01932

Request or PO Number: N/A

Client Sample ID: S171771709 (Batch 56929)

ARS Sample ID: ARS1-17-01932-002

Sample Collection Date: 06/26/17

Date Received: 07/03/17

Sample Matrix: Aqueous

Report Date: 08/02/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.150 | 0.114 | 0.152 | 0.058 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/28/17 9:36 | CTRAMEL | 109% |
| Ra-228 | 0.873 | 0.698 | 1.099 | 0.508 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/21/17 12:10 | CTRAMEL | 99% |

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Project Manager Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

LELAP Certificate# 01949



2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01932

Request or PO Number: N/A

Client Sample ID: S171771710 (Batch 56929)

ARS Sample ID: ARS1-17-01932-003

Sample Collection Date: 06/26/17

Date Received: 07/03/17

Sample Matrix: Aqueous

Report Date: 08/02/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.181 | 0.139 | 0.201 | 0.084 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/28/17 9:36 | CTRAMEL | 122% |
| Ra-228 | 0.119 | 0.621 | 1.107 | 0.512 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/21/17 12:10 | CTRAMEL | 127% |

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Project Manager Review

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2609 North River Road, Port Allen, Louisiana 70767
 1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01932
 Client Sample ID: S171771711 (Batch 56929)
 Sample Collection Date: 06/26/17
 Sample Matrix: Aqueous
 Percent Solids: N/A

Request or PO Number: N/A
 ARS Sample ID: ARS1-17-01932-004
 Date Received: 07/03/17
 Report Date: 08/02/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.143 | 0.168 | 0.275 | 0.119 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/28/17 9:36 | CTRAMEL | 103% |
| Ra-228 | 0.575 | 0.718 | 1.196 | 0.557 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/21/17 12:10 | CTRAMEL | 107% |

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Project Manager Review

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LELAP Certificate# 01949



2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 · FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01932

Request or PO Number: N/A

Client Sample ID: S171771712 (Batch 56929)

ARS Sample ID: ARS1-17-01932-005

Sample Collection Date: 06/26/17

Date Received: 07/03/17

Sample Matrix: Aqueous

Report Date: 08/02/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 1.123 | 0.316 | 0.206 | 0.085 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 07/28/17 9:36 | CTRAMEL | 101% |
| Ra-228 | 1.944 | 0.920 | 1.281 | 0.595 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 07/21/17 12:10 | CTRAMEL | 85% |

Project Manager Review

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LELAP Certificate# 01949



2609 North River Road, Port Allen, Louisiana 70767
 1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01932
 Client Sample ID: S171771713 (Batch 56929)
 Sample Collection Date: 06/26/17
 Sample Matrix: Aqueous
 Percent Solids: N/A

Request or PO Number: N/A
 ARS Sample ID: ARS1-17-01932-006
 Data Received: 07/03/17
 Report Date: 08/02/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.097 | 0.115 | 0.186 | 0.074 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/28/17 9:36 | CTRAMEL | 107% |
| Ra-228 | 0.006 | 0.584 | 1.058 | 0.490 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/21/17 12:10 | CTRAMEL | 108% |

Project Manager Review

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2609 North River Road, Port Allen, Louisiana 70767
 1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01932
 Client Sample ID: S171771714 (Batch 56929)
 Sample Collection Date: 06/26/17
 Sample Matrix: Aqueous
 Percent Solids: N/A

Request or PO Number: N/A
 ARS Sample ID: ARS1-17-01932-007
 Date Received: 07/03/17
 Report Date: 08/02/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | NDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.201 | 0.127 | 0.152 | 0.058 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 07/28/17 9:36 | CTRAMEL | 111% |
| Ra-228 | 1.164 | 0.811 | 1.248 | 0.580 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/21/17 12:10 | CTRAMEL | 99% |

Project Manager Review

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INTERNATIONAL QC Results Report

2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

Sample Delivery Group: ARS1-17-01932

Laboratory Control Sample Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | LCS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|----------------------|
| ARS1-B17-01441 | LCS | RA-226 | 24.324 | 3.928 | 0.102 | 27.520 | N/A | pCi/L | ARS-010/EPA 903 | 7/28/17 11:36 | CT | 88 | 75%-125% |
| ARS1-B17-01441 | LCS | RA-228 | 37.261 | 6.206 | 1.081 | 39.784 | N/A | pCi/L | ARS-010/EPA 904 | 7/21/17 14:10 | CT | 94 | 75%-125% |

Blank Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|
| ARS1-B17-01441 | MBL | RA-226 | 0.014 | 0.051 | 0.098 | NA | U | pCi/L | ARS-010/EPA 903 | 7/28/17 11:36 | CT |
| ARS1-B17-01441 | MBL | RA-228 | 0.263 | 0.374 | 0.630 | NA | U | pCi/L | ARS-010/EPA 904 | 7/21/17 14:10 | CT |

RER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | RER | RER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01441 | LCS | RA-226 | 24.324 | 3.928 | 21.481 | 3.484 | N/A | pCi/L | ARS-010/EPA 903 | 7/28/17 11:36 | CT | 0.38 | < 1 |
| ARS1-B17-01441 | LCS | RA-228 | 37.261 | 6.206 | 36.009 | 5.995 | N/A | pCi/L | ARS-010/EPA 904 | 7/21/17 14:10 | CT | 0.10 | < 1 |

DER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | DER | DER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01441 | LCS | RA-226 | 24.324 | 3.928 | 21.481 | 3.484 | N/A | pCi/L | ARS-010/EPA 903 | 7/28/17 11:36 | CT | 0.54 | < 3 |
| ARS1-B17-01441 | LCS | RA-228 | 37.261 | 6.206 | 36.009 | 5.995 | N/A | pCi/L | ARS-010/EPA 904 | 7/21/17 14:10 | CT | 0.15 | < 3 |

Matrix Spike

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | MS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|---------------------|
| ARS1-B17-01441 | MS | Ra-226 | 57.731 | 9.307 | 0.174 | 55.148 | N/A | pCi/L | ARS-010/EPA 903 | 7/28/17 11:36 | CT | 105 | 60%-140% |
| ARS1-B17-01441 | MS | Ra-228 | 38.432 | 6.513 | 1.510 | 51.757 | N/A | pCi/L | ARS-010/EPA 904 | 7/21/17 14:10 | CT | 74 | 60%-140% |
| ARS1-B17-01441 | MSD | Ra-226 | 44.951 | 7.271 | 0.153 | 55.632 | N/A | pCi/L | ARS-010/EPA 903 | 7/28/17 11:36 | CT | 81 | 60%-140% |
| ARS1-B17-01441 | MSD | Ra-228 | 44.546 | 7.450 | 1.489 | 50.739 | N/A | pCi/L | ARS-010/EPA 904 | 7/21/17 14:10 | CT | 88 | 60%-140% |

Project Manager Review

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LELAP Certificate# 01949

NELAP Certificate # E87558

Notes (Case Narrative):

Comments:

- 1.0) All MDAMDC values are calculated on a sample specific basis.
- 2.0) Soil and Sludge analysis are reported on a wet basis or an as received basis unless otherwise indicated.
- 3.0) Data in this report are within the limits of uncertainty specified in the reference method unless otherwise specified.
- 4.0) Modified analysis procedures are procedures that are modified to meet the certain specifications. An example may be the use of a water method to analyze a solid matrix due to the lack of an officially recognized procedure for the analysis of the solid matrix. Modified analyses are indicated by the subsequent addition of "m" to the procedure number (i.e. 900.0M).
- 5.0) Total activity is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring radioactive decay chains and other prominent radioactive nuclides. Total activity may be lower than the actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not representative of nuclides that emit solely alpha or beta particles.
- 6.0) Ra-228 is determined via secular equilibrium with its daughter, Actinium 228 (Gamma Spectroscopy only).
- 7.0) U-238 is determined via secular equilibrium with its daughter, Thorium 234 (Gamma Spectroscopy only).
- 8.0) All gamma spectroscopy was performed utilizing high purity germanium detectors (HPGe).
- 9.0) ARS makes every attempt to match sample density to calibrated density; however, in some cases, it is not practical or possible to do so and data results may be affected (Gamma Spectroscopy only).
- 10.0) Gamma spectroscopy results are calculated values based on the ORTEC® GammaVision ENV32 Analysis Engine.
- 11.0) ACLASS DOD and ISO 17025 certification applies only to the following analytes and methods: Gross Alpha and Gross Beta (EPA 900, SM7110B&C, SW846 9310); Radium 226 (EPA 903, EPA 903.1, SM 7500 Ra-B, SW846 9315); Radium 228 (EPA 904, SM 7500 Ra-B SW846 9320); Iodine-131(EPA 901.1); Uranium by ICPMS (EPA 200.8); Strontium 89/90 (EPA 905, Eichrom SRW01, HASL 300 Sr-03-RC); Tritium (EPA 906, EPA 906M); Gamma Emitters (EPA 901.1, SM7120B, HASL 300 Ga-01-R); Americium-241, Curium 242/244, Plutonium 239/240 and 241, Thorium 228/230/232, Uranium 234/233 and 238 (Eichrom ACW03 VBS); Lead 210 (HASL 300 Pb-01-RC, Eichrom OTW01); Polonium 210 (HASL 300 Po-01-RC, HASL 300 Po-02-RC); Technetium-99 (Eichrom TCW02, Eichrom TCS01M).

Method References:

- 1.0) EPA 600/4-80-032; Prescribed Procedures for the Measurements of Radioactivity in Drinking Water, August 1980.
- 2.0) Standard Methods for the Examination of Water and Wastewater (On-Line Edition)
- 3.0) EPA SW-846; Test Methods for Evaluating Solid Waste, (On-Line edition)
- 4.0) EPA 600/4/79-020; Methods for Chemical Analysis of Water and Waste, March 1983.
- 5.0) HASL 300; The Procedures Manual of the Environmental Measurements Laboratory, Volume 1, 28th Edition February, 1997.

Definitions:

| | |
|----------|---|
| CRDL | Contract Required Detection Limit |
| CSU | Combined Standard Uncertainty |
| DLC | Decision Level Concentration (ANSI N42.23) or critical level |
| DO | Duplicate Original |
| DUP | Method Duplicate |
| LCS/LCSD | Laboratory Control Sample/Laboratory Control Sample Duplicate |
| MDA | Minimum Detectable Activity |
| MDC | (Minimum Detectable Concentration) minimum concentration of the analyte that ARS can detect utilizing the specific analysis |
| MBL | Method Blank |
| MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| N/A | Not Applicable |
| NP | Not Provided |
| NR | Not Referenced |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |

Data Qualifiers:

| | |
|----|--|
| B | The analyte is found in both the associated method blank and the sample. This flag indicates probable blank contamination. |
| D | Sample analysis accomplished through dilution. |
| J | The reported result is an estimated value above the limit of detection but outside of quantitation range (e.g., matrix interference was observed). |
| Q | One or more quality control criteria failed (e.g., LCS recovery, surrogate spike recovery, or CCV recovery). |
| U | Activity is below the MDC, MDA, MDL, or LOD |
| N | The analyte is a tentatively identified compound using mass spectrometry or any non-customer requested compounds that are tentatively identified. |
| * | LCS/LCSD or MS/MSD fails RPD criteria. |
| S | Spike |
| SC | Subcontracted out to another qualified laboratory |
| H | Holding time exceeded |

LELAP Cert# 01949

NELAP Cert# E87558

ARS-059-010
Revision: 9.1
Revision Date: 03-14-2017

B Environmental Laboratory, LLC
 1606 E Brazos Suite D, Victoria, Texas 77901 Ph: (361) 572-8224

Chain Of Custody Rec

Batch # 56929

TEMP UN-C: 2.0 Page 1 of 2

Customer / Report Information Billing Information Check box if Billing is the same as Report Information

Name: Coletto Creek Power Address: _____ PO # _____
 Attention: Rick Coleman Attention: _____
 Address: P.O. Box 8; Fannin, TX 77960 Project: CCR Sampling Comments: _____
 Phone: 361-788-5145 EMAIL: richard.coleman@duaneu.com
 THERM ID# 3 Requested Analysis _____
 TEMP Corr: 1.8 Completed By laboratory

| Sample Information | Collected By: | Collected | | Matrix | Container | TYPE | NUMBER | Size | Preservative | Metals* | | | | | | | | | | Custody Seals Present | | | | | | |
|--------------------|---------------|-----------|------|--------|-----------|---------|--------|------|---|--|----------|-------------------|-----------|----------------|-------------|------------|-----------|----|----|-----------------------|----|----|----|----|------------|------------|
| | | Date | Time | | | | | | | C = Composite | G = Grab | DW - Drinking H2O | S - Solid | WW - Waste H2O | SL - Sludge | L - Liquid | W - Water | As | Cd | | Cr | Pb | Mn | Ni | Se | Ti |
| BLK | | 6-26-17 | 1570 | WW | P | 6 500mL | 250mL | 1L | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | S171771705 |
| MWS | | | 1118 | WW | P | 6 500mL | 250mL | 1L | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | S171771708 | |
| MWS/MSD | | | 1118 | WW | P | 6 500mL | 250mL | 1L | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | S171771709 | |
| MWS-9 | | | 1336 | WW | P | 6 500mL | 250mL | 1L | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | S171771710 | |
| MWS-9A | | | 1408 | WW | P | 6 500mL | 250mL | 1L | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | S171771711 | |
| MWS-10 | | | 1440 | WW | P | 6 500mL | 250mL | 1L | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | S171771711 | |

Required Turnaround: Routine (6-10 Business days) Expedite / Rush: 1 Business Day 2 Business Days 3 Business days 5 Business days Other _____

Surcharge will apply to RUSH TAT Authorized By: _____ Container Type: P=Plastic, G=Glass, V=Vos, O=Other Carrier ID: _____

| | | | | | |
|------------------------|----------------------|-------------------|--------------------|----------------------|-------------------|
| Relinquished By: _____ | Date: <u>6-26-17</u> | Time: <u>1615</u> | Received By: _____ | Date: <u>6-26-17</u> | Time: <u>1615</u> |
| Relinquished By: _____ | Date: _____ | Time: _____ | Received By: _____ | Date: _____ | Time: _____ |

B Environmental Laboratory, LLC
 1606 E Brazos Suite D Victoria, Texas 77901 ph (361) 572-8224

Chain Of Custody Rec Batch # 56929 TEMP UN-C: 2.0 Page 2 of 2

Customer / Report Information Billing Information Check box if Billing is the same as Report Information

Name: Coletto Creek Power Address: _____ PO # _____
 Attention: Rick Coleman Project: CCR Sampling Comments: _____
 Address: P. O. Box 8; Fannin, TX 77960

Phone: 361-788-5145 FAX: _____
 EMAIL: richard.coleman@dnevour.com Requested Analysis: _____
 THERM ID# 3 TEMP Corr: 1.8 Completed By Laboratory: _____

| Sample Information | Collected | Matrix | Container | Preservative | Metals* | Cl, F, SO4 | pH | TDS | Ra226 & Ra228 | Alk:Tot, Carb, Bi Carb | Diss Li & Mo | Custody Seals Present | Intact | LAB Sample Number |
|--------------------|-----------|--------|-----------|--------------|---------|------------|----|-----|---------------|------------------------|--------------|-----------------------|--------|-------------------|
| | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | |
|--------------|----------------|------------|---|----|---|------------------|-----|--|---|---|---|---|---|---|---|------------|
| <u>mw-11</u> | <u>6-26-17</u> | <u>906</u> | G | WW | P | 6 500mL 250mL | ICE | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | X | X | X | X | X | X | S171771712 |
|--------------|----------------|------------|---|----|---|------------------|-----|--|---|---|---|---|---|---|---|------------|

| | | | | | | | | | | | | | | | | |
|-------------|------------|--|---|----|---|------------------|-----|--|---|---|---|---|---|---|---|------------|
| <u>PS-3</u> | <u>938</u> | | G | WW | P | 6 500mL 250mL | ICE | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | X | X | X | X | X | X | S171771713 |
|-------------|------------|--|---|----|---|------------------|-----|--|---|---|---|---|---|---|---|------------|

| | | | | | | | | | | | | | | | | |
|--------------|----------|--|---|----|---|------------------|-----|--|---|---|---|---|---|---|---|------------|
| <u>Dup 1</u> | <u>↓</u> | | G | WW | P | 6 500mL 250mL | ICE | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | X | X | X | X | X | X | S171771714 |
|--------------|----------|--|---|----|---|------------------|-----|--|---|---|---|---|---|---|---|------------|

| | | | | | | | | | | | | | | | | |
|--|--|--|---|----|---|------------------|-----|--|---|---|---|---|---|---|---|--|
| | | | G | WW | P | 6 500mL 250mL | ICE | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | X | X | X | X | X | X | |
|--|--|--|---|----|---|------------------|-----|--|---|---|---|---|---|---|---|--|

| | | | | | | | | | | | | | | | | |
|--|--|--|---|----|---|------------------|-----|--|---|---|---|---|---|---|---|--|
| | | | G | WW | P | 6 500mL 250mL | ICE | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | X | X | X | X | X | X | |
|--|--|--|---|----|---|------------------|-----|--|---|---|---|---|---|---|---|--|

| | | | | | | | | | | | | | | | | |
|--|--|--|---|----|---|------------------|-----|--|---|---|---|---|---|---|---|--|
| | | | G | WW | P | 6 500mL 250mL | ICE | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | X | X | X | X | X | X | |
|--|--|--|---|----|---|------------------|-----|--|---|---|---|---|---|---|---|--|

| | | | | | | | | | | | | | | | | |
|--|--|--|---|----|---|------------------|-----|--|---|---|---|---|---|---|---|--|
| | | | G | WW | P | 6 500mL 250mL | ICE | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input checked="" type="checkbox"/> HCL <input checked="" type="checkbox"/> Na2SO3 | X | X | X | X | X | X | |
|--|--|--|---|----|---|------------------|-----|--|---|---|---|---|---|---|---|--|

Required Turnaround: Routine (6-10 Business days) Expedite / Rush: 1 Business Day 2 Business Days 3 Business days 5 Business days Other _____

Surcharge will apply to RUSH/FAT Authorized BY: _____

| | | | | | |
|------------------------|----------------------|--------------------|--------------------|----------------------|--------------------|
| Relinquished By: _____ | Date: <u>6-26-17</u> | Time: <u>16:15</u> | Received By: _____ | Date: <u>6-26-17</u> | Time: <u>16:15</u> |
|------------------------|----------------------|--------------------|--------------------|----------------------|--------------------|

BatchNo: 57039

SAMPLE REPORT



T104704328-17-14

Business

Coleto Creek Power - R Coleman
PO Box 8
Fannin TX 77960
Att: Rick Coleman



Laboratory

B Environmental, LLC.
1606 E Brazos, Suite D
Victoria TX 77901
ph. 361-572-8224

Reference Information

Project: CCR
Printed: Friday, August
04, 2017

Re: Coleto Creek Power - R Coleman

Dear: Rick Coleman

Attached are the results for sample(s) received on 6/27/2017

The analytical results relate only to the samples tested.
All supporting quality data meets the requirements of NELAC unless noted in the case narrative section of the report.

This report contains 50 pages (including the cover page)

If you have any questions concerning this report, please do not hesitate to call (361) 572-8224 or Fax us at (361) 572-4115

Respectfully Submitted,

Kevin Baros
Laboratory Director



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BatchNo: 57039

Victoria TX 77901

Batch No: 57039

Sample Receipt Checklist

Date Received: 6/28/2017

Project CCR Received By: Woodruff

Login completed by: Woodruff 6/28/2017
Signature LoginDate:

Carrier Name Walk In

- Shipping container/cooler in good condition? YES NO Not Present
- Custody seals intact on shipping container/cooler? YES NO Not Present
- Custody seals intact on sample bottles? YES NO Not Present
- Chain of Custody present? YES NO
- Chain of Custody signed when relinquished and received YES NO
- Chain of Custody agrees with sample labels? YES NO
- Samples in proper container/bottles? YES NO
- Sample containers intact? YES NO
- Sufficient sample volume for indicated tests? YES NO
- All samples received within holding times? YES NO
- Container/Temp Blank - temperature in compliance? YES NO >0 <6 °C On Ice
- Water - VOA vials have zero headspace? Bubble < 6mm? YES NO No VOA Vials submitted
- Water - pH acceptable upon receipt? YES NO Not Applicable

*TEMP 9.2/9.0 pH Adjusted? No Checked By L. Vahrenkamp

Any No and/or N/A (not applicable) response must be detailed in the comments section below.

Client contacted PersonContacted

Contacted by: Date Contacted:

Regarding

Comments

Therm #3. HNO3 Lot # 2-42-12. pH Paper Lot # 2-25-6. The samples were received the same day they were collected and were in the process of cooling.

Corrective Action



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BatchNo: 57039

Victoria TX 77901

Sample Report Information



| | | | | | |
|-------------------|-------------------|-------------------|-------------|-----------------|---------------|
| Sample ID: | S171790842 | Client ID: | MW-8 | Sampler: | Client |
|-------------------|-------------------|-------------------|-------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman
Study: Water

Batch No: 57039
Sampled: 6/27/2017 8:07 AM

Project: CCR

Location: MW #8

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 66 | mg/L | EPA 300 | K Baros | 6/28/2017 22:43 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 261 | mg/L | SM 2320 B | | 7/6/2017 12:56 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/6/2017 12:56 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 261 | mg/L | SM 2320 B | | 7/6/2017 12:56 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.44 | mg/L | EPA 300 | K Baros | 6/28/2017 22:43 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.17 | SU | SM 4500-H+B | C Watts | 6/27/2017 16:45 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 533 | mg/L | SM2540C | C Watts | 7/3/2017 16:40 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | c | # | | | 7/10/2017 12:12 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 91 | mg/L | EPA 300 | K Baros | 6/28/2017 22:43 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | c | # | | | 7/19/2017 11:23 | | | | | | <input checked="" type="checkbox"/> ARS International |



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BatchNo: 57039

Sample Report Information



| | | | | | |
|------------|------------|------------|------|----------|--------|
| Sample ID: | S17179084A | Client ID: | MW-4 | Sampler: | Client |
|------------|------------|------------|------|----------|--------|

Client: Coleto Creek Power - R Coleman
 Study: Water
 Project: CCR
 Location: MW #4
 Notes:

Batch No: 57039
 Sampled: 6/27/2017 10:33 AM
 Type: Grab
 Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 101 | mg/L | EPA 300 | K Baros | 6/28/2017 17:38 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 251 | mg/L | SM 2320 B | | 7/6/2017 13:14 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/6/2017 13:14 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 251 | mg/L | SM 2320 B | | 7/6/2017 13:14 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.63 | mg/L | EPA 300 | K Baros | 6/28/2017 17:38 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.05 | SU | SM 4500-H+B | C Watts | 6/27/2017 16:45 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 690 | mg/L | SM2540C | C Watts | 7/3/2017 16:40 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/10/2017 12:14 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 157 | mg/L | EPA 300 | K Baros | 6/28/2017 17:38 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/20/2017 8:12 | | | | | | <input checked="" type="checkbox"/> ARS International |



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BatchNo: 57039

Victoria TX 77901

Sample Report Information



| | | | | | |
|------------|-------------------|------------|--------------|----------|---------------|
| Sample ID: | S17179084B | Client ID: | BV-15 | Sampler: | Client |
|------------|-------------------|------------|--------------|----------|---------------|

Client: Coletto Creek Power - R Coleman
 Study: Water
 Project: CCR
 Location: BV 15
 Notes:

Batch No: 57039
 Sampled: 6/27/2017 9:54 AM
 Type: Grab
 Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 49 | mg/L | EPA 300 | K Baros | 6/28/2017 18:16 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 203 | mg/L | SM 2320 B | | 7/6/2017 13:21 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/6/2017 13:21 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 203 | mg/L | SM 2320 B | | 7/6/2017 13:21 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.82 | mg/L | EPA 300 | K Baros | 6/28/2017 18:16 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.39 | SU | SM 4500-H+B | C Watts | 6/27/2017 16:45 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 437 | mg/L | SM2540C | C Watts | 6/29/2017 16:10 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/10/2017 12:32 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 82 | mg/L | EPA 300 | K Baros | 6/28/2017 18:16 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/24/2017 8:46 | | | | | | <input checked="" type="checkbox"/> ARS International |



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Sample Report Information



| | | | | | |
|-------------------|-------------------|-------------------|--------------|-----------------|---------------|
| Sample ID: | S17179084C | Client ID: | BV-21 | Sampler: | Client |
|-------------------|-------------------|-------------------|--------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman

Batch No: 57039

Study: Water

Sampled: 6/27/2017

9:25 AM

Project: CCR

Location: BV 21

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 40 | mg/L | EPA 300 | K Baros | 6/28/2017 18:54 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 244 | mg/L | SM 2320 B | | 7/6/2017 13:30 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/6/2017 13:30 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 244 | mg/L | SM 2320 B | | 7/6/2017 13:30 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.6 | mg/L | EPA 300 | K Baros | 6/28/2017 18:54 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.17 | SU | SM 4500-H+B | C Watts | 6/27/2017 16:45 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 420 | mg/L | SM2540C | C Watts | 7/3/2017 16:40 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/10/2017 12:34 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 46 | mg/L | EPA 300 | K Baros | 6/28/2017 18:54 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/24/2017 8:46 | | | | | <input checked="" type="checkbox"/> | ARS International |



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Victoria TX 77901

BatchNo: 57039

Sample Report Information



| | | | | | |
|------------|------------|------------|-------|----------|--------|
| Sample ID: | S17179084D | Client ID: | BV-22 | Sampler: | Client |
|------------|------------|------------|-------|----------|--------|

Client: Coletto Creek Power - R Coleman
 Study: Water
 Project: CCR
 Location: BV 22
 Notes:

Batch No: 57039
 Sampled: 6/27/2017 8:53 AM
 Type: Grab
 Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 39 | mg/L | EPA 300 | K Baros | 6/28/2017 19:33 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 245 | mg/L | SM 2320 B | | 7/6/2017 13:39 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/6/2017 13:39 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 245 | mg/L | SM 2320 B | | 7/6/2017 13:39 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.53 | mg/L | EPA 300 | K Baros | 6/28/2017 19:33 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.24 | SU | SM 4500-H+B | C Watts | 6/27/2017 16:45 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 360 | mg/L | SM2540C | C Watts | 7/3/2017 16:40 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/10/2017 12:36 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 27 | mg/L | EPA 300 | K Baros | 6/28/2017 19:33 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/24/2017 8:46 | | | | | | <input checked="" type="checkbox"/> ARS International |



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BatchNo: 57039

Sample Report Information



| | | | |
|------------------------------|------------------------|-----------------|---------------|
| Sample ID: S17179084E | Client ID: BV-1 | Sampler: | Client |
|------------------------------|------------------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman
 Study: Water
 Project: CCR
 Location: BV-1
 Notes:

Batch No: 57039
 Sampled: 6/27/2017 1:00 PM
 Type: Grab
 Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 138 | mg/L | EPA 300 | K Baros | 6/28/2017 20:11 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 391 | mg/L | SM 2320 B | | 7/6/2017 13:52 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/6/2017 13:52 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 391 | mg/L | SM 2320 B | | 7/6/2017 13:52 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.76 | mg/L | EPA 300 | K Baros | 6/28/2017 20:11 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.22 | SU | SM 4500-H+B | C Watts | 6/27/2017 16:45 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 893 | mg/L | SM2540C | C Watts | 7/3/2017 16:40 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/10/2017 12:38 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 176 | mg/L | EPA 300 | K Baros | 6/28/2017 20:11 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 8/3/2017 8:07 | | | | | | <input checked="" type="checkbox"/> ARS International |



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BatchNo: 57039

Victoria TX 77901

Sample Report Information



| | | | |
|------------------------------|-------------------------|-----------------|---------------|
| Sample ID: S17179084F | Client ID: Dup 2 | Sampler: | Client |
|------------------------------|-------------------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman
Study: Water

Batch No: 57039
Sampled: 6/27/2017 12:00 AM

Project: CCR

Location: Dup

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| .- Chloride, IC | 136 | mg/L | EPA 300 | K Baros | 6/28/2017 20:49 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 386 | mg/L | SM 2320 B | | 7/6/2017 14:05 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/6/2017 14:05 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 386 | mg/L | SM 2320 B | | 7/6/2017 14:05 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.75 | mg/L | EPA 300 | K Baros | 6/28/2017 20:49 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.33 | SU | SM 4500-H+B | C Watts | 6/27/2017 16:45 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 930 | mg/L | SM2540C | C Watts | 7/3/2017 16:40 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | c | # | | | 7/10/2017 12:40 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 178 | mg/L | EPA 300 | K Baros | 6/28/2017 20:49 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | c | # | | | 8/3/2017 8:07 | | | | | | <input checked="" type="checkbox"/> ARS International |



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BatchNo: 57039

Sample Report Information



| | | | | | |
|------------|------------|------------|--------|----------|--------|
| Sample ID: | S17179084G | Client ID: | MW-10A | Sampler: | Client |
|------------|------------|------------|--------|----------|--------|

Client: Coletto Creek Power - R Coleman
 Study: Water
 Project: CCR
 Location: MW 10A
 Notes:

Batch No: 57039
 Sampled: 6/27/2017 11:24 AM
 Type: Grab
 Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 366 | mg/L | EPA 300 | K Baros | 6/28/2017 21:27 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 329 | mg/L | SM 2320 B | | 7/6/2017 14:18 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/6/2017 14:18 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 329 | mg/L | SM 2320 B | | 7/6/2017 14:18 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.45 | mg/L | EPA 300 | K Baros | 6/28/2017 21:27 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 6.8 | SU | SM 4500-H+B | C Watts | 6/27/2017 16:45 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 1150 | mg/L | SM2540C | C Watts | 7/3/2017 16:40 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/10/2017 12:42 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 84 | mg/L | EPA 300 | K Baros | 6/28/2017 21:27 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 8/3/2017 8:07 | | | | | <input checked="" type="checkbox"/> | ARS International |



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BatchNo: 57039

Sample Report Information



| | | |
|------------------------------|------------------------|------------------------|
| Sample ID: S17179084H | Client ID: BV-5 | Sampler: Client |
|------------------------------|------------------------|------------------------|

Client: Coletto Creek Power - R Coleman
 Study: Water
 Project: CCR
 Location: BV-5
 Notes:

Batch No: 57039
 Sampled: 6/27/2017 1:35 PM
 Type: Grab
 Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 114 | mg/L | EPA 300 | K Baros | 6/28/2017 22:05 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 381 | mg/L | SM 2320 B | | 7/6/2017 14:31 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/6/2017 14:31 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 381 | mg/L | SM 2320 B | | 7/6/2017 14:31 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.55 | mg/L | EPA 300 | K Baros | 6/28/2017 22:05 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.52 | SU | SM 4500-H+B | C Watts | 6/27/2017 16:45 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 743 | mg/L | SM2540C | C Watts | 7/3/2017 16:40 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/10/2017 12:44 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 144 | mg/L | EPA 300 | K Baros | 6/28/2017 22:05 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 8/3/2017 8:07 | | | | | | <input checked="" type="checkbox"/> ARS International |



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B Environmental, LLC.
1606 E Brazos, Suite D

BatchNo: 57039

Victoria TX 77901



QA Summary Report

| Parameter | ID | Result | Ref Value | Amt Added | LOQ | Qualifier | Control | Flag | Comments |
|--|------------|-----------|-----------|-----------|------|----------------|----------------|------|---|
| Method Blank | | | | | | | | | |
| - Chloride, IC 6/28/2017 13:50 | Q171921338 | <1mg/L | 0 | | 1 | | 1 | | Blank Acceptable. |
| Fluoride, IC 6/28/2017 13:50 | Q171921338 | <0.25mg/L | 0 | | 0.25 | | 0.25 | | Blank Acceptable. |
| Nitrate/Nitrite-N 6/28/2017 13:50 | Q171921338 | <0.08ppm | 0 | | 0.08 | | 0.08 | | Blank Acceptable. |
| Solids, Total Dissolved 6/29/2017 16:10 | Q171811357 | <25mg/L | 0 | | 10 | | 25 | | Blank Acceptable. |
| Solids, Total Dissolved 7/3/2017 16:40 | Q171861013 | <25mg/L | 0 | | 10 | | 25 | | Blank Acceptable. |
| Sulfate, IC 6/28/2017 13:50 | Q171921338 | <1mg/L | 0 | | 1 | | 1 | | Blank Acceptable. |
| Duplicate | | | | | | | | | |
| Solids, Total Dissolved 6/29/2017 16:10 | Q171811359 | 7180mg/L | 7160 | | 10 | 0.3% | 20 | | Duplicate RPD Acceptable. |
| Solids, Total Dissolved 7/3/2017 16:40 | Q171861015 | 597mg/L | 593 | | 10 | 0.7% | 20 | | Duplicate RPD Acceptable. |
| Laboratory Control Standard | | | | | | | | | |
| - Chloride, IC 6/28/2017 14:28 | Q171921340 | 26mg/L | 25 | | 1 | 104.0% 3.9% | 80 - 120 20 | | Standard Recovery Acceptable. Standard RPD Acceptable. |
| Fluoride, IC 6/28/2017 14:28 | Q171921340 | 2.07mg/L | 2 | | 0.25 | 103.5% 3.4% | 80 - 120 20 | | Standard Recovery Acceptable. Standard RPD Acceptable. |
| Nitrate/Nitrite-N 6/28/2017 14:28 | Q171921340 | 1.05ppm | 1.06 | | 0.08 | 99.1% 0.9% | 80 - 120 20 | | Standard Recovery Acceptable. Standard RPD Acceptable. |
| Sulfate, IC 6/28/2017 14:28 | Q171921340 | 26.2mg/L | 25 | | 1 | 104.8% 4.7% | 80 - 120 20 | | Standard Recovery Acceptable. Standard RPD Acceptable. |
| Matrix Spike | | | | | | | | | |
| - Chloride, IC 6/28/2017 16:22 | Q17192134A | 151.4mg/L | 151.5 | 125 | 1 | 99.9% 0.1% | 80 - 120 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Fluoride, IC 6/28/2017 16:22 | Q17192134A | 9.67mg/L | 10.22 | 10 | 0.25 | 94.5% 5.5% | 80 - 120 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Nitrate/Nitrite-N 6/28/2017 16:22 | Q17192134A | 5.407ppm | 5.47 | 5.3 | 0.08 | 98.8% 1.2% | 80 - 120 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Sulfate, IC 6/28/2017 16:22 | Q17192134A | 158mg/L | 159.4 | 125 | 1 | 98.9% 0.9% | 70 - 130 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |



B Environmental, LLC.

1606 E Brazos, Suite D

Victoria TX

77901

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B Environmental, LLC.
1606 E Brazos, Suite D

BatchNo: 57039

Victoria TX 77901

| Parameter | ID | Result | Ref Value | Amt Added | LOQ | Qualifier | Control | Flag | Comments |
|-------------------------|------------|-----------|-----------|-----------|------|-----------|----------|------|----------------------------|
| Matrix Spike Dup | | | | | | | | | |
| - Chloride, IC | Q17192134B | 150.1mg/L | 151.5 | 125 | 1 | 98.9% | 80 - 120 | | Spike Recovery Acceptable. |
| 6/28/2017 17:00 | | | | | | 0.9% | 20 | | Spike RPD Acceptable. |
| Fluoride, IC | Q17192134B | 9.63mg/L | 10.22 | 10 | 0.25 | 94.1% | 80 - 120 | | Spike Recovery Acceptable. |
| 6/28/2017 17:00 | | | | | | 5.9% | 20 | | Spike RPD Acceptable. |
| Nitrate/Nitrite-N | Q17192134B | 5.35ppm | 5.47 | 5.3 | 0.08 | 97.7% | 80 - 120 | | Spike Recovery Acceptable. |
| 6/28/2017 17:00 | | | | | | 2.2% | 20 | | Spike RPD Acceptable. |
| Sulfate, IC | Q17192134B | 157mg/L | 159.4 | 125 | 1 | 98.1% | 70 - 130 | | Spike Recovery Acceptable. |
| 6/28/2017 17:00 | | | | | | 1.5% | 20 | | Spike RPD Acceptable. |

Flag and Qualifier Legend

| | | |
|--|--|---|
|  Negative - Result Detected | <i>MDL = Method Detection Limit</i> | <i>DF = Dilution Factor</i> |
|  Caution - Problem Detected | <i>LOQ = Limit of Quantitation</i> | <i>J = Analyte detected between MDL and LOQ</i> |
|  Warning - Null Value | <i>S = surrogate standard out of limit</i> | <i>H = sample out of hold time</i> |
|  MS, MSD, RPD- Failure may occur due to matrix interference, data released per QA plan | | |

Friday, August 04, 2017

B Environmental - LDMS QA Report Summary

Note:

THANK YOU!



B Environmental, LLC.

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Victoria TX 77901

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DHL Analytical, Inc.

Date: 12-Jul-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Lab Order: 1706327

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition and M2320 B.

For Metals analysis by method SW6020A the dissolved Lithium and/or Molybdenum results were slightly higher than the total Lithium and/or Molybdenum results for samples MW-8, BV-21 and MW-10A. These are within the acceptable variation limits. No further corrective actions were taken.

All method blanks, sample duplicates, laboratory spikes, and/or matrix spikes met quality assurance objectives except where noted in the following. For Mercury analysis by method SW7470A the matrix spike and matrix spike duplicate recoveries were below control limits. These are flagged accordingly in the enclosed QC summary report. The "S" flag denotes spike recovery was outside control limits. The LCS was within control limits. No further corrective actions were taken.

For Mercury analysis by method SW7470A the PDS recovery was below control limits. This is flagged accordingly. The serial dilution was within control limits. No further corrective actions were taken.

For Metals analysis by method SW6020A the PDS recovery was below control limits for Magnesium. This is flagged accordingly. The serial dilution was within control limits for this analyte. No further corrective actions were taken.

For Metals analysis by method SW6020A (batch 81220) the PDS recovery was below control limits for Magnesium. This is flagged accordingly. The serial dilution was within control limits for this analyte. No further corrective actions were taken.

For Metals analysis by method SW6020A (batch 81220) the RPD for the serial dilution was slightly above control limits for Boron. This is flagged accordingly. The PDS was within control limits for this analyte. No further corrective actions were taken.

DHL Analytical, Inc.

Date: 12-Jul-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (57039)
Lab Order: 1706327

Client Sample ID: MW-8
Lab ID: 1706327-01
Alternate ID: S171790842
Collection Date: 06/27/17 08:07 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: RO | | | |
| Dissolved Lithium | 0.0117 | 0.00500 | 0.0100 | | mg/L | 1 | 07/07/17 03:44 PM |
| Dissolved Molybdenum | 0.0153 | 0.00200 | 0.00500 | | mg/L | 1 | 07/07/17 03:44 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 07/10/17 12:12 PM |
| Arsenic | 0.00939 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:12 PM |
| Barium | 0.0633 | 0.00300 | 0.0100 | | mg/L | 1 | 07/10/17 12:12 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 12:12 PM |
| Boron | 1.23 | 0.100 | 0.300 | | mg/L | 10 | 07/11/17 11:57 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 12:12 PM |
| Calcium | 89.6 | 1.00 | 3.00 | | mg/L | 10 | 07/11/17 11:57 AM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:12 PM |
| Cobalt | 0.0314 | 0.00300 | 0.00500 | | mg/L | 1 | 07/10/17 12:12 PM |
| Lead | 0.000839 | 0.000300 | 0.00100 | J | mg/L | 1 | 07/10/17 12:12 PM |
| Lithium | 0.0115 | 0.00500 | 0.0100 | | mg/L | 1 | 07/10/17 12:12 PM |
| Magnesium | 12.7 | 0.100 | 0.300 | | mg/L | 1 | 07/10/17 12:12 PM |
| Molybdenum | 0.0163 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:12 PM |
| Potassium | 1.01 | 0.100 | 0.300 | | mg/L | 1 | 07/10/17 12:12 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:12 PM |
| Sodium | 86.6 | 1.00 | 3.00 | | mg/L | 10 | 07/11/17 11:57 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 07/10/17 12:12 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 07/07/17 10:45 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 261 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 07/06/17 12:56 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 07/06/17 12:56 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 07/06/17 12:56 PM |
| Alkalinity, Total (As CaCO3) | 261 | 20.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 07/06/17 12:56 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 12-Jul-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (57039)
Lab Order: 1706327

Client Sample ID: MW-4
Lab ID: 1706327-02
Alternate ID: S17179084A
Collection Date: 06/27/17 10:33 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: RO | | | |
| Dissolved Lithium | 0.0184 | 0.00500 | 0.0100 | | mg/L | 1 | 07/07/17 03:46 PM |
| Dissolved Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/07/17 03:46 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 07/10/17 12:14 PM |
| Arsenic | 0.00786 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:14 PM |
| Barium | 0.0554 | 0.00300 | 0.0100 | | mg/L | 1 | 07/10/17 12:14 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 12:14 PM |
| Boron | 0.254 | 0.0100 | 0.0300 | | mg/L | 1 | 07/11/17 11:59 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 12:14 PM |
| Calcium | 102 | 1.00 | 3.00 | | mg/L | 10 | 07/11/17 12:26 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:14 PM |
| Cobalt | 0.00704 | 0.00300 | 0.00500 | | mg/L | 1 | 07/10/17 12:14 PM |
| Lead | 0.000334 | 0.000300 | 0.00100 | J | mg/L | 1 | 07/10/17 12:14 PM |
| Lithium | 0.0185 | 0.00500 | 0.0100 | | mg/L | 1 | 07/10/17 12:14 PM |
| Magnesium | 17.4 | 0.100 | 0.300 | | mg/L | 1 | 07/10/17 12:14 PM |
| Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:14 PM |
| Potassium | 1.43 | 0.100 | 0.300 | | mg/L | 1 | 07/10/17 12:14 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:14 PM |
| Sodium | 106 | 1.00 | 3.00 | | mg/L | 10 | 07/11/17 12:26 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 07/10/17 12:14 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 07/07/17 10:47 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 251 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/06/17 01:14 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/06/17 01:14 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/06/17 01:14 PM |
| Alkalinity, Total (As CaCO3) | 251 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/06/17 01:14 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 12-Jul-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR (57039)
Lab Order: 1706327

Client Sample ID: BV-15
Lab ID: 1706327-03
Alternate ID: S17179084B
Collection Date: 06/27/17 09:54 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: RO | | | |
| Dissolved Lithium | 0.00670 | 0.00500 | 0.0100 | J | mg/L | 1 | 07/07/17 04:09 PM |
| Dissolved Molybdenum | 0.0182 | 0.00200 | 0.00500 | | mg/L | 1 | 07/07/17 04:09 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 07/10/17 12:32 PM |
| Arsenic | 0.00926 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:32 PM |
| Barium | 0.0521 | 0.00300 | 0.0100 | | mg/L | 1 | 07/10/17 12:32 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 12:32 PM |
| Boron | 1.26 | 0.100 | 0.300 | | mg/L | 10 | 07/11/17 12:28 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 12:32 PM |
| Calcium | 67.5 | 1.00 | 3.00 | | mg/L | 10 | 07/11/17 12:28 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:32 PM |
| Cobalt | 0.0126 | 0.00300 | 0.00500 | | mg/L | 1 | 07/10/17 12:32 PM |
| Lead | 0.00448 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 12:32 PM |
| Lithium | 0.00700 | 0.00500 | 0.0100 | J | mg/L | 1 | 07/10/17 12:32 PM |
| Magnesium | 8.47 | 0.100 | 0.300 | | mg/L | 1 | 07/10/17 12:32 PM |
| Molybdenum | 0.0183 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:32 PM |
| Potassium | 1.15 | 0.100 | 0.300 | | mg/L | 1 | 07/10/17 12:32 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:32 PM |
| Sodium | 76.1 | 1.00 | 3.00 | | mg/L | 10 | 07/11/17 12:28 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 07/10/17 12:32 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 07/07/17 10:50 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 203 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/06/17 01:21 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/06/17 01:21 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/06/17 01:21 PM |
| Alkalinity, Total (As CaCO3) | 203 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/06/17 01:21 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern J Analyte detected between MDL and RL
 MDL Method Detection Limit ND Not Detected at the Method Detection Limit
 RL Reporting Limit S Spike Recovery outside control limits Page 3 of 9

DHL Analytical, Inc.

Date: 12-Jul-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR (57039)
Lab Order: 1706327

Client Sample ID: BV-21
Lab ID: 1706327-04
Alternate ID: S17179084C
Collection Date: 06/27/17 09:25 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: RO | | | |
| Dissolved Lithium | 0.00582 | 0.00500 | 0.0100 | J | mg/L | 1 | 07/07/17 04:11 PM |
| Dissolved Molybdenum | 0.00236 | 0.00200 | 0.00500 | J | mg/L | 1 | 07/07/17 04:11 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 07/10/17 12:34 PM |
| Arsenic | 0.128 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:34 PM |
| Barium | 0.104 | 0.00300 | 0.0100 | | mg/L | 1 | 07/10/17 12:34 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 12:34 PM |
| Boron | 0.727 | 0.100 | 0.300 | | mg/L | 10 | 07/11/17 12:30 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 12:34 PM |
| Calcium | 84.9 | 1.00 | 3.00 | | mg/L | 10 | 07/11/17 12:30 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:34 PM |
| Cobalt | 0.00841 | 0.00300 | 0.00500 | | mg/L | 1 | 07/10/17 12:34 PM |
| Lead | 0.00112 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 12:34 PM |
| Lithium | 0.00550 | 0.00500 | 0.0100 | J | mg/L | 1 | 07/10/17 12:34 PM |
| Magnesium | 8.53 | 0.100 | 0.300 | | mg/L | 1 | 07/10/17 12:34 PM |
| Molybdenum | 0.00241 | 0.00200 | 0.00500 | J | mg/L | 1 | 07/10/17 12:34 PM |
| Potassium | 0.959 | 0.100 | 0.300 | | mg/L | 1 | 07/10/17 12:34 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:34 PM |
| Sodium | 61.3 | 1.00 | 3.00 | | mg/L | 10 | 07/11/17 12:30 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 07/10/17 12:34 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 07/07/17 10:52 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 244 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/06/17 01:30 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/06/17 01:30 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/06/17 01:30 PM |
| Alkalinity, Total (As CaCO3) | 244 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/06/17 01:30 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern J Analyte detected between MDL and RL
 MDL Method Detection Limit ND Not Detected at the Method Detection Limit
 RL Reporting Limit S Spike Recovery outside control limits Page 4 of 9

DHL Analytical, Inc.

Date: 12-Jul-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR (57039)
Lab Order: 1706327

Client Sample ID: BV-22
Lab ID: 1706327-05
Alternate ID: S17179084D
Collection Date: 06/27/17 08:53 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: RO | | | |
| Dissolved Lithium | 0.00690 | 0.00500 | 0.0100 | J | mg/L | 1 | 07/07/17 04:12 PM |
| Dissolved Molybdenum | 0.00779 | 0.00200 | 0.00500 | | mg/L | 1 | 07/07/17 04:12 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 07/10/17 12:36 PM |
| Arsenic | 0.00657 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:36 PM |
| Barium | 0.0508 | 0.00300 | 0.0100 | | mg/L | 1 | 07/10/17 12:36 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 12:36 PM |
| Boron | 0.638 | 0.100 | 0.300 | | mg/L | 10 | 07/11/17 12:32 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 12:36 PM |
| Calcium | 88.7 | 1.00 | 3.00 | | mg/L | 10 | 07/11/17 12:32 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:36 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 07/10/17 12:36 PM |
| Lead | 0.00168 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 12:36 PM |
| Lithium | 0.00730 | 0.00500 | 0.0100 | J | mg/L | 1 | 07/10/17 12:36 PM |
| Magnesium | 10.3 | 0.100 | 0.300 | | mg/L | 1 | 07/10/17 12:36 PM |
| Molybdenum | 0.00810 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:36 PM |
| Potassium | 0.965 | 0.100 | 0.300 | | mg/L | 1 | 07/10/17 12:36 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:36 PM |
| Sodium | 60.5 | 1.00 | 3.00 | | mg/L | 10 | 07/11/17 12:32 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 07/10/17 12:36 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 07/07/17 10:54 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 245 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/06/17 01:39 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/06/17 01:39 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/06/17 01:39 PM |
| Alkalinity, Total (As CaCO3) | 245 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/06/17 01:39 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 12-Jul-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (57039)
Lab Order: 1706327

Client Sample ID: BV-1
Lab ID: 1706327-06
Alternate ID: S17179084E
Collection Date: 06/27/17 01:00 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: RO | | | |
| Dissolved Lithium | 0.0150 | 0.00500 | 0.0100 | | mg/L | 1 | 07/07/17 04:14 PM |
| Dissolved Molybdenum | 0.00444 | 0.00200 | 0.00500 | J | mg/L | 1 | 07/07/17 04:14 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 07/10/17 12:38 PM |
| Arsenic | 0.0107 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:38 PM |
| Barium | 0.0498 | 0.00300 | 0.0100 | | mg/L | 1 | 07/10/17 12:38 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 12:38 PM |
| Boron | 1.29 | 0.200 | 0.600 | | mg/L | 20 | 07/11/17 12:34 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 12:38 PM |
| Calcium | 77.3 | 2.00 | 6.00 | | mg/L | 20 | 07/11/17 12:34 PM |
| Chromium | 0.00947 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:38 PM |
| Cobalt | 0.402 | 0.00300 | 0.00500 | | mg/L | 1 | 07/10/17 12:38 PM |
| Lead | 0.00381 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 12:38 PM |
| Lithium | 0.0165 | 0.00500 | 0.0100 | | mg/L | 1 | 07/10/17 12:38 PM |
| Magnesium | 11.0 | 0.100 | 0.300 | | mg/L | 1 | 07/10/17 12:38 PM |
| Molybdenum | 0.00481 | 0.00200 | 0.00500 | J | mg/L | 1 | 07/10/17 12:38 PM |
| Potassium | 0.584 | 0.100 | 0.300 | | mg/L | 1 | 07/10/17 12:38 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:38 PM |
| Sodium | 257 | 2.00 | 6.00 | | mg/L | 20 | 07/11/17 12:34 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 07/10/17 12:38 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 07/07/17 10:56 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 391 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/06/17 01:52 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/06/17 01:52 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/06/17 01:52 PM |
| Alkalinity, Total (As CaCO3) | 391 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/06/17 01:52 PM |

Qualifiers:

| | |
|---|---|
| * Value exceeds TCLP Maximum Concentration Level | B Analyte detected in the associated Method Blank |
| C Sample Result or QC discussed in the Case Narrative | DF Dilution Factor |
| E TPH pattern not Gas or Diesel Range Pattern | J Analyte detected between MDL and RL |
| MDL Method Detection Limit | ND Not Detected at the Method Detection Limit |
| RL Reporting Limit | S Spike Recovery outside control limits |

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DHL Analytical, Inc.

Date: 12-Jul-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR (57039)
Lab Order: 1706327

Client Sample ID: Dup2
Lab ID: 1706327-07
Alternate ID: S17179084F
Collection Date: 06/27/17
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: RO | | | |
| Dissolved Lithium | 0.0136 | 0.00500 | 0.0100 | | mg/L | 1 | 07/07/17 04:16 PM |
| Dissolved Molybdenum | 0.00451 | 0.00200 | 0.00500 | J | mg/L | 1 | 07/07/17 04:16 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 07/10/17 12:40 PM |
| Arsenic | 0.0105 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:40 PM |
| Barium | 0.0472 | 0.00300 | 0.0100 | | mg/L | 1 | 07/10/17 12:40 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 12:40 PM |
| Boron | 1.29 | 0.200 | 0.600 | | mg/L | 20 | 07/11/17 12:36 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 12:40 PM |
| Calcium | 75.1 | 2.00 | 6.00 | | mg/L | 20 | 07/11/17 12:36 PM |
| Chromium | 0.00947 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:40 PM |
| Cobalt | 0.400 | 0.00300 | 0.00500 | | mg/L | 1 | 07/10/17 12:40 PM |
| Lead | 0.00397 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 12:40 PM |
| Lithium | 0.0151 | 0.00500 | 0.0100 | | mg/L | 1 | 07/10/17 12:40 PM |
| Magnesium | 10.6 | 0.100 | 0.300 | | mg/L | 1 | 07/10/17 12:40 PM |
| Molybdenum | 0.00459 | 0.00200 | 0.00500 | J | mg/L | 1 | 07/10/17 12:40 PM |
| Potassium | 0.593 | 0.100 | 0.300 | | mg/L | 1 | 07/10/17 12:40 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:40 PM |
| Sodium | 249 | 2.00 | 6.00 | | mg/L | 20 | 07/11/17 12:36 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 07/10/17 12:40 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 07/07/17 10:59 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 386 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 07/06/17 02:05 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 07/06/17 02:05 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 07/06/17 02:05 PM |
| Alkalinity, Total (As CaCO3) | 386 | 20.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 07/06/17 02:05 PM |

Qualifiers:

| | |
|---|---|
| * Value exceeds TCLP Maximum Concentration Level | B Analyte detected in the associated Method Blank |
| C Sample Result or QC discussed in the Case Narrative | DF Dilution Factor |
| E TPH pattern not Gas or Diesel Range Pattern | J Analyte detected between MDL and RL |
| MDL Method Detection Limit | ND Not Detected at the Method Detection Limit |
| RL Reporting Limit | S Spike Recovery outside control limits |

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DHL Analytical, Inc.

Date: 12-Jul-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (57039)
Lab Order: 1706327

Client Sample ID: MW-10A
Lab ID: 1706327-08
Alternate ID: S17179084G
Collection Date: 06/27/17 11:24 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: RO | | | |
| Dissolved Lithium | 0.0257 | 0.00500 | 0.0100 | | mg/L | 1 | 07/07/17 04:18 PM |
| Dissolved Molybdenum | 0.00269 | 0.00200 | 0.00500 | J | mg/L | 1 | 07/07/17 04:18 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 07/10/17 12:42 PM |
| Arsenic | 0.00516 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:42 PM |
| Barium | 0.0986 | 0.00300 | 0.0100 | | mg/L | 1 | 07/10/17 12:42 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 12:42 PM |
| Boron | 0.179 | 0.0100 | 0.0300 | | mg/L | 1 | 07/11/17 12:38 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 12:42 PM |
| Calcium | 194 | 2.00 | 6.00 | | mg/L | 20 | 07/11/17 12:40 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:42 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 07/10/17 12:42 PM |
| Lead | 0.000712 | 0.000300 | 0.00100 | J | mg/L | 1 | 07/10/17 12:42 PM |
| Lithium | 0.0258 | 0.00500 | 0.0100 | | mg/L | 1 | 07/10/17 12:42 PM |
| Magnesium | 30.4 | 2.00 | 6.00 | | mg/L | 20 | 07/11/17 12:40 PM |
| Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:42 PM |
| Potassium | 1.75 | 0.100 | 0.300 | | mg/L | 1 | 07/10/17 12:42 PM |
| Selenium | 0.00271 | 0.00200 | 0.00500 | J | mg/L | 1 | 07/10/17 12:42 PM |
| Sodium | 169 | 2.00 | 6.00 | | mg/L | 20 | 07/11/17 12:40 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 07/10/17 12:42 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 07/07/17 11:01 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 329 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 07/06/17 02:18 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 07/06/17 02:18 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 07/06/17 02:18 PM |
| Alkalinity, Total (As CaCO3) | 329 | 20.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 07/06/17 02:18 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 12-Jul-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR (57039)
Lab Order: 1706327

Client Sample ID: BV-5
Lab ID: 1706327-09
Alternate ID: S17179084H
Collection Date: 06/27/17 01:35 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: RO | | | |
| Dissolved Lithium | 0.0194 | 0.00500 | 0.0100 | | mg/L | 1 | 07/07/17 04:19 PM |
| Dissolved Molybdenum | 0.00890 | 0.00200 | 0.00500 | | mg/L | 1 | 07/07/17 04:19 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 07/10/17 12:44 PM |
| Arsenic | 0.00830 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:44 PM |
| Barium | 0.0412 | 0.00300 | 0.0100 | | mg/L | 1 | 07/10/17 12:44 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 12:44 PM |
| Boron | 1.14 | 0.200 | 0.600 | | mg/L | 20 | 07/11/17 12:42 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 12:44 PM |
| Calcium | 100 | 2.00 | 6.00 | | mg/L | 20 | 07/11/17 12:42 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:44 PM |
| Cobalt | 0.0460 | 0.00300 | 0.00500 | | mg/L | 1 | 07/10/17 12:44 PM |
| Lead | 0.000810 | 0.000300 | 0.00100 | J | mg/L | 1 | 07/10/17 12:44 PM |
| Lithium | 0.0198 | 0.00500 | 0.0100 | | mg/L | 1 | 07/10/17 12:44 PM |
| Magnesium | 17.5 | 0.100 | 0.300 | | mg/L | 1 | 07/10/17 12:44 PM |
| Molybdenum | 0.00942 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:44 PM |
| Potassium | 0.194 | 0.100 | 0.300 | J | mg/L | 1 | 07/10/17 12:44 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 12:44 PM |
| Sodium | 174 | 2.00 | 6.00 | | mg/L | 20 | 07/11/17 12:42 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 07/10/17 12:44 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 07/07/17 11:03 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 381 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/06/17 02:31 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/06/17 02:31 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/06/17 02:31 PM |
| Alkalinity, Total (As CaCO3) | 381 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/06/17 02:31 PM |

Qualifiers:

| | |
|---|---|
| * Value exceeds TCLP Maximum Concentration Level | B Analyte detected in the associated Method Blank |
| C Sample Result or QC discussed in the Case Narrative | DF Dilution Factor |
| E TPH pattern not Gas or Diesel Range Pattern | J Analyte detected between MDL and RL |
| MDL Method Detection Limit | ND Not Detected at the Method Detection Limit |
| RL Reporting Limit | S Spike Recovery outside control limits |

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DHL Analytical, Inc.

Date: 12-Jul-17

CLIENT: B-Environmental
Work Order: 1706327
Project: Coieto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_170707A

The QC data in batch 81301 applies to the following samples: 1706327-01A, 1706327-02A, 1706327-03A, 1706327-04A, 1706327-05A, 1706327-06A, 1706327-07A, 1706327-08A, 1706327-09A

| | | | |
|---------------------------|----------------------------------|--|----------------------------|
| Sample ID MB-81301 | Batch ID: 81301 | TestNo: SW7470A | Units: mg/L |
| SampType: MBLK | Run ID: CETAC2_HG_170707A | Analysis Date: 7/7/2017 10:38:44 AM | Prep Date: 7/6/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|------------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | <0.0000800 | 0.000200 | | | | | | | | |

| | | | |
|----------------------------|----------------------------------|--|----------------------------|
| Sample ID LCS-81301 | Batch ID: 81301 | TestNo: SW7470A | Units: mg/L |
| SampType: LCS | Run ID: CETAC2_HG_170707A | Analysis Date: 7/7/2017 10:41:00 AM | Prep Date: 7/6/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00204 | 0.000200 | 0.00200 | 0 | 102 | 85 | 115 | | | |

| | | | |
|-----------------------------|----------------------------------|--|----------------------------|
| Sample ID LCSD-81301 | Batch ID: 81301 | TestNo: SW7470A | Units: mg/L |
| SampType: LCSD | Run ID: CETAC2_HG_170707A | Analysis Date: 7/7/2017 10:43:16 AM | Prep Date: 7/6/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00209 | 0.000200 | 0.00200 | 0 | 104 | 85 | 115 | 2.42 | 15 | |

| | | | |
|---------------------------------|----------------------------------|--|----------------------------|
| Sample ID 1706358-01A SD | Batch ID: 81301 | TestNo: SW7470A | Units: mg/L |
| SampType: SD | Run ID: CETAC2_HG_170707A | Analysis Date: 7/7/2017 11:08:10 AM | Prep Date: 7/6/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|-----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | <0.000400 | 0.00100 | 0 | 0 | | | | 0 | 10 | |

| | | | |
|----------------------------------|----------------------------------|--|----------------------------|
| Sample ID 1706358-01A PDS | Batch ID: 81301 | TestNo: SW7470A | Units: mg/L |
| SampType: PDS | Run ID: CETAC2_HG_170707A | Analysis Date: 7/7/2017 11:10:27 AM | Prep Date: 7/6/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00133 | 0.000200 | 0.00250 | 0 | 53.2 | 85 | 115 | | | S |

| | | | |
|---------------------------------|----------------------------------|--|----------------------------|
| Sample ID 1706358-01A MS | Batch ID: 81301 | TestNo: SW7470A | Units: mg/L |
| SampType: MS | Run ID: CETAC2_HG_170707A | Analysis Date: 7/7/2017 11:12:43 AM | Prep Date: 7/6/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00104 | 0.000200 | 0.00200 | 0 | 52.0 | 80 | 120 | | | S |

| | | | |
|----------------------------------|----------------------------------|--|----------------------------|
| Sample ID 1706358-01A MSD | Batch ID: 81301 | TestNo: SW7470A | Units: mg/L |
| SampType: MSD | Run ID: CETAC2_HG_170707A | Analysis Date: 7/7/2017 11:14:59 AM | Prep Date: 7/6/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00108 | 0.000200 | 0.00200 | 0 | 54.0 | 80 | 120 | 3.77 | 15 | S |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706327
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170710C

The QC data in batch 81220 applies to the following samples: 1706327-01A, 1706327-02A, 1706327-03A, 1706327-04A, 1706327-05A, 1706327-06A, 1706327-07A, 1706327-08A, 1706327-09A

| | | | |
|---------------------------|--------------------------------|---|-----------------------------|
| Sample ID MB-81220 | Batch ID: 81220 | TestNo: SW6020A | Units: mg/L |
| SampType: MBLK | Run ID: ICP-MS4_170710C | Analysis Date: 7/10/2017 11:46:00 AM | Prep Date: 6/30/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|-----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | <0.000800 | 0.00250 | | | | | | | | |
| Arsenic | <0.00200 | 0.00500 | | | | | | | | |
| Barium | <0.00300 | 0.0100 | | | | | | | | |
| Beryllium | <0.000300 | 0.00100 | | | | | | | | |
| Cadmium | <0.000300 | 0.00100 | | | | | | | | |
| Calcium | <0.100 | 0.300 | | | | | | | | |
| Chromium | <0.00200 | 0.00500 | | | | | | | | |
| Cobalt | <0.00300 | 0.00500 | | | | | | | | |
| Lead | <0.000300 | 0.00100 | | | | | | | | |
| Lithium | <0.00500 | 0.0100 | | | | | | | | |
| Magnesium | <0.100 | 0.300 | | | | | | | | |
| Molybdenum | <0.00200 | 0.00500 | | | | | | | | |
| Potassium | <0.100 | 0.300 | | | | | | | | |
| Selenium | <0.00200 | 0.00500 | | | | | | | | |
| Sodium | <0.100 | 0.300 | | | | | | | | |
| Thallium | <0.000500 | 0.00150 | | | | | | | | |

| | | | |
|----------------------------|--------------------------------|---|-----------------------------|
| Sample ID LCS-81220 | Batch ID: 81220 | TestNo: SW6020A | Units: mg/L |
| SampType: LCS | Run ID: ICP-MS4_170710C | Analysis Date: 7/10/2017 11:49:00 AM | Prep Date: 6/30/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.195 | 0.00250 | 0.200 | 0 | 97.6 | 80 | 120 | | | |
| Arsenic | 0.198 | 0.00500 | 0.200 | 0 | 99.0 | 80 | 120 | | | |
| Barium | 0.198 | 0.0100 | 0.200 | 0 | 99.0 | 80 | 120 | | | |
| Beryllium | 0.204 | 0.00100 | 0.200 | 0 | 102 | 80 | 120 | | | |
| Cadmium | 0.198 | 0.00100 | 0.200 | 0 | 99.2 | 80 | 120 | | | |
| Calcium | 5.17 | 0.300 | 5.00 | 0 | 103 | 80 | 120 | | | |
| Chromium | 0.205 | 0.00500 | 0.200 | 0 | 103 | 80 | 120 | | | |
| Cobalt | 0.203 | 0.00500 | 0.200 | 0 | 102 | 80 | 120 | | | |
| Lead | 0.197 | 0.00100 | 0.200 | 0 | 98.3 | 80 | 120 | | | |
| Lithium | 0.209 | 0.0100 | 0.200 | 0 | 105 | 80 | 120 | | | |
| Magnesium | 5.07 | 0.300 | 5.00 | 0 | 101 | 80 | 120 | | | |
| Molybdenum | 0.194 | 0.00500 | 0.200 | 0 | 97.2 | 80 | 120 | | | |
| Potassium | 5.13 | 0.300 | 5.00 | 0 | 103 | 80 | 120 | | | |
| Selenium | 0.201 | 0.00500 | 0.200 | 0 | 100 | 80 | 120 | | | |
| Sodium | 5.10 | 0.300 | 5.00 | 0 | 102 | 80 | 120 | | | |
| Thallium | 0.201 | 0.00150 | 0.200 | 0 | 100 | 80 | 120 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706327
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170710C

| | | | | | | | |
|-----------|------------|-----------|-----------------|----------------|-----------------------|------------|-----------|
| Sample ID | LCSD-81220 | Batch ID: | 81220 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | LCSD | Run ID: | ICP-MS4_170710C | Analysis Date: | 7/10/2017 11:50:00 AM | Prep Date: | 6/30/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | 0.198 | 0.00250 | 0.200 | 0 | 98.8 | 80 | 120 | 1.26 | 15 | |
| Arsenic | 0.197 | 0.00500 | 0.200 | 0 | 98.4 | 80 | 120 | 0.602 | 15 | |
| Barium | 0.198 | 0.0100 | 0.200 | 0 | 99.1 | 80 | 120 | 0.127 | 15 | |
| Beryllium | 0.205 | 0.00100 | 0.200 | 0 | 102 | 80 | 120 | 0.350 | 15 | |
| Cadmium | 0.198 | 0.00100 | 0.200 | 0 | 99.2 | 80 | 120 | 0.055 | 15 | |
| Calcium | 5.10 | 0.300 | 5.00 | 0 | 102 | 80 | 120 | 1.44 | 15 | |
| Chromium | 0.204 | 0.00500 | 0.200 | 0 | 102 | 80 | 120 | 0.731 | 15 | |
| Cobalt | 0.203 | 0.00500 | 0.200 | 0 | 102 | 80 | 120 | 0.028 | 15 | |
| Lead | 0.197 | 0.00100 | 0.200 | 0 | 98.5 | 80 | 120 | 0.229 | 15 | |
| Lithium | 0.206 | 0.0100 | 0.200 | 0 | 103 | 80 | 120 | 1.59 | 15 | |
| Magnesium | 5.07 | 0.300 | 5.00 | 0 | 101 | 80 | 120 | 0.130 | 15 | |
| Molybdenum | 0.196 | 0.00500 | 0.200 | 0 | 97.9 | 80 | 120 | 0.664 | 15 | |
| Potassium | 5.12 | 0.300 | 5.00 | 0 | 102 | 80 | 120 | 0.199 | 15 | |
| Selenium | 0.198 | 0.00500 | 0.200 | 0 | 99.1 | 80 | 120 | 1.40 | 15 | |
| Sodium | 5.06 | 0.300 | 5.00 | 0 | 101 | 80 | 120 | 0.737 | 15 | |
| Thallium | 0.202 | 0.00150 | 0.200 | 0 | 101 | 80 | 120 | 0.702 | 15 | |

| | | | | | | | |
|-----------|----------------|-----------|-----------------|----------------|-----------------------|------------|-----------|
| Sample ID | 1706306-02A SD | Batch ID: | 81220 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | SD | Run ID: | ICP-MS4_170710C | Analysis Date: | 7/10/2017 11:56:00 AM | Prep Date: | 6/30/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|----------|---------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | <0.00400 | 0.0125 | 0 | 0 | | | | 0 | 10 | |
| Arsenic | <0.0100 | 0.0250 | 0 | 0.00955 | | | | 0 | 10 | |
| Barium | 0.0746 | 0.0500 | 0 | 0.0735 | | | | 1.49 | 10 | |
| Beryllium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Cadmium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Chromium | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Cobalt | <0.0150 | 0.0250 | 0 | 0.00343 | | | | 0 | 10 | |
| Lead | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Lithium | <0.0250 | 0.0500 | 0 | 0.0204 | | | | 0 | 10 | |
| Magnesium | 23.1 | 1.50 | 0 | 22.5 | | | | 2.37 | 10 | |
| Molybdenum | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Potassium | 1.56 | 1.50 | 0 | 1.56 | | | | 0.131 | 10 | |
| Selenium | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Thallium | <0.00250 | 0.00750 | 0 | 0 | | | | 0 | 10 | |

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|-----------------------|------------|-----------|
| Sample ID | 1706306-02A PDS | Batch ID: | 81220 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | PDS | Run ID: | ICP-MS4_170710C | Analysis Date: | 7/10/2017 12:16:00 PM | Prep Date: | 6/30/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.200 | 0.00250 | 0.200 | 0 | 99.9 | 80 | 120 | | | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706327
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170710C

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|-----------------------|------------|-----------|
| Sample ID | 1706306-02A PDS | Batch ID: | 81220 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | PDS | Run ID: | ICP-MS4_170710C | Analysis Date: | 7/10/2017 12:16:00 PM | Prep Date: | 6/30/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Arsenic | 0.208 | 0.00500 | 0.200 | 0.00955 | 99.4 | 80 | 120 | | | |
| Barium | 0.272 | 0.0100 | 0.200 | 0.0735 | 99.3 | 80 | 120 | | | |
| Beryllium | 0.206 | 0.00100 | 0.200 | 0 | 103 | 80 | 120 | | | |
| Cadmium | 0.197 | 0.00100 | 0.200 | 0 | 98.6 | 80 | 120 | | | |
| Chromium | 0.211 | 0.00500 | 0.200 | 0 | 105 | 80 | 120 | | | |
| Cobalt | 0.206 | 0.00500 | 0.200 | 0.00343 | 101 | 80 | 120 | | | |
| Lead | 0.199 | 0.00100 | 0.200 | 0 | 99.3 | 80 | 120 | | | |
| Lithium | 0.222 | 0.0100 | 0.200 | 0.0204 | 101 | 80 | 120 | | | |
| Magnesium | 25.9 | 0.300 | 5.00 | 22.5 | 67.1 | 80 | 120 | | | S |
| Molybdenum | 0.198 | 0.00500 | 0.200 | 0 | 99.0 | 80 | 120 | | | |
| Potassium | 6.33 | 0.300 | 5.00 | 1.56 | 95.5 | 80 | 120 | | | |
| Selenium | 0.196 | 0.00500 | 0.200 | 0 | 97.9 | 80 | 120 | | | |
| Thallium | 0.201 | 0.00150 | 0.200 | 0 | 101 | 80 | 120 | | | |

| | | | | | | | |
|-----------|----------------|-----------|-----------------|----------------|-----------------------|------------|-----------|
| Sample ID | 1706306-02A MS | Batch ID: | 81220 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | MS | Run ID: | ICP-MS4_170710C | Analysis Date: | 7/10/2017 12:18:00 PM | Prep Date: | 6/30/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.197 | 0.00250 | 0.200 | 0 | 98.3 | 80 | 120 | | | |
| Arsenic | 0.211 | 0.00500 | 0.200 | 0.00955 | 101 | 80 | 120 | | | |
| Barium | 0.272 | 0.0100 | 0.200 | 0.0735 | 99.5 | 80 | 120 | | | |
| Beryllium | 0.198 | 0.00100 | 0.200 | 0 | 99.1 | 80 | 120 | | | |
| Cadmium | 0.191 | 0.00100 | 0.200 | 0 | 95.7 | 80 | 120 | | | |
| Calcium | 132 | 0.300 | 5.00 | 126 | 113 | 80 | 120 | | | |
| Chromium | 0.199 | 0.00500 | 0.200 | 0 | 99.6 | 80 | 120 | | | |
| Cobalt | 0.201 | 0.00500 | 0.200 | 0.00343 | 98.6 | 80 | 120 | | | |
| Lead | 0.200 | 0.00100 | 0.200 | 0 | 99.8 | 80 | 120 | | | |
| Lithium | 0.219 | 0.0100 | 0.200 | 0.0204 | 99.2 | 80 | 120 | | | |
| Magnesium | 26.9 | 0.300 | 5.00 | 22.5 | 88.1 | 80 | 120 | | | |
| Molybdenum | 0.200 | 0.00500 | 0.200 | 0 | 100 | 80 | 120 | | | |
| Potassium | 6.66 | 0.300 | 5.00 | 1.56 | 102 | 80 | 120 | | | |
| Selenium | 0.200 | 0.00500 | 0.200 | 0 | 99.8 | 80 | 120 | | | |
| Sodium | 128 | 0.300 | 5.00 | 122 | 114 | 80 | 120 | | | |
| Thallium | 0.202 | 0.00150 | 0.200 | 0 | 101 | 80 | 120 | | | |

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|-----------------------|------------|-----------|
| Sample ID | 1706306-02A MSD | Batch ID: | 81220 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | MSD | Run ID: | ICP-MS4_170710C | Analysis Date: | 7/10/2017 12:20:00 PM | Prep Date: | 6/30/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|---------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | 0.196 | 0.00250 | 0.200 | 0 | 98.0 | 80 | 120 | 0.355 | 15 | |
| Arsenic | 0.210 | 0.00500 | 0.200 | 0.00955 | 100 | 80 | 120 | 0.532 | 15 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706327
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170710C

| | | | |
|----------------------------|-------------------------|--------------------------------------|----------------------|
| Sample ID: 1706306-02A MSD | Batch ID: 81220 | TestNo: SW6020A | Units: mg/L |
| SampType: MSD | Run ID: ICP-MS4_170710C | Analysis Date: 7/10/2017 12:20:00 PM | Prep Date: 6/30/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|-------|----------|------|
| Barium | 0.272 | 0.0100 | 0.200 | 0.0735 | 99.4 | 80 | 120 | 0.060 | 15 | |
| Beryllium | 0.196 | 0.00100 | 0.200 | 0 | 98.2 | 80 | 120 | 0.919 | 15 | |
| Cadmium | 0.190 | 0.00100 | 0.200 | 0 | 94.9 | 80 | 120 | 0.811 | 15 | |
| Calcium | 131 | 0.300 | 5.00 | 126 | 93.7 | 80 | 120 | 0.731 | 15 | |
| Chromium | 0.201 | 0.00500 | 0.200 | 0 | 101 | 80 | 120 | 1.02 | 15 | |
| Cobalt | 0.202 | 0.00500 | 0.200 | 0.00343 | 99.4 | 80 | 120 | 0.855 | 15 | |
| Lead | 0.198 | 0.00100 | 0.200 | 0 | 98.8 | 80 | 120 | 1.09 | 15 | |
| Lithium | 0.217 | 0.0100 | 0.200 | 0.0204 | 98.1 | 80 | 120 | 1.04 | 15 | |
| Magnesium | 27.2 | 0.300 | 5.00 | 22.5 | 93.5 | 80 | 120 | 1.01 | 15 | |
| Molybdenum | 0.199 | 0.00500 | 0.200 | 0 | 99.6 | 80 | 120 | 0.557 | 15 | |
| Potassium | 6.55 | 0.300 | 5.00 | 1.56 | 99.9 | 80 | 120 | 1.69 | 15 | |
| Selenium | 0.198 | 0.00500 | 0.200 | 0 | 99.0 | 80 | 120 | 0.805 | 15 | |
| Sodium | 127 | 0.300 | 5.00 | 122 | 106 | 80 | 120 | 0.338 | 15 | |
| Thallium | 0.203 | 0.00150 | 0.200 | 0 | 102 | 80 | 120 | 0.871 | 15 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706327
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170711A

The QC data in batch 81220 applies to the following samples: 1706327-01A, 1706327-02A, 1706327-03A, 1706327-04A, 1706327-05A, 1706327-06A, 1706327-07A, 1706327-08A, 1706327-09A

Sample ID **MB-81220** Batch ID: **81220** TestNo: **SW6020A** Units: **mg/L**
 SampType: **MBLK** Run ID: **ICP-MS4_170711A** Analysis Date: **7/11/2017 11:31:00 AM** Prep Date: **6/30/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|--------|-----------|---------|------|----------|-----------|------|----------|------|
| Boron | <0.0100 | 0.0300 | | | | | | | | |

Sample ID **LCS-81220** Batch ID: **81220** TestNo: **SW6020A** Units: **mg/L**
 SampType: **LCS** Run ID: **ICP-MS4_170711A** Analysis Date: **7/11/2017 11:33:00 AM** Prep Date: **6/30/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|--------|-----------|---------|------|----------|-----------|------|----------|------|
| Boron | 0.216 | 0.0300 | 0.200 | 0 | 108 | 80 | 120 | | | |

Sample ID **LCSD-81220** Batch ID: **81220** TestNo: **SW6020A** Units: **mg/L**
 SampType: **LCSD** Run ID: **ICP-MS4_170711A** Analysis Date: **7/11/2017 11:35:00 AM** Prep Date: **6/30/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|--------|-----------|---------|------|----------|-----------|------|----------|------|
| Boron | 0.214 | 0.0300 | 0.200 | 0 | 107 | 80 | 120 | 1.03 | 15 | |

Sample ID **1706306-02A SD** Batch ID: **81220** TestNo: **SW6020A** Units: **mg/L**
 SampType: **SD** Run ID: **ICP-MS4_170711A** Analysis Date: **7/11/2017 11:41:00 AM** Prep Date: **6/30/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Boron | 0.137 | 0.150 | 0 | 0.121 | | | | 12.3 | 10 | R |

Sample ID **1706306-02A PDS** Batch ID: **81220** TestNo: **SW6020A** Units: **mg/L**
 SampType: **PDS** Run ID: **ICP-MS4_170711A** Analysis Date: **7/11/2017 12:01:00 PM** Prep Date: **6/30/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|--------|-----------|---------|------|----------|-----------|------|----------|------|
| Boron | 0.301 | 0.0300 | 0.200 | 0.121 | 89.9 | 80 | 120 | | | |

Sample ID **1706306-02A MS** Batch ID: **81220** TestNo: **SW6020A** Units: **mg/L**
 SampType: **MS** Run ID: **ICP-MS4_170711A** Analysis Date: **7/11/2017 12:03:00 PM** Prep Date: **6/30/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|--------|-----------|---------|------|----------|-----------|------|----------|------|
| Boron | 0.319 | 0.0300 | 0.200 | 0.121 | 98.9 | 80 | 120 | | | |

Sample ID **1706306-02A MSD** Batch ID: **81220** TestNo: **SW6020A** Units: **mg/L**
 SampType: **MSD** Run ID: **ICP-MS4_170711A** Analysis Date: **7/11/2017 12:05:00 PM** Prep Date: **6/30/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|--------|-----------|---------|------|----------|-----------|------|----------|------|
| Boron | 0.323 | 0.0300 | 0.200 | 0.121 | 101 | 80 | 120 | 1.30 | 15 | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706327
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170711A

| | | | | | | | |
|-----------|----------------|-----------|-----------------|----------------|-----------------------|------------|-----------|
| Sample ID | 1706306-02A SD | Batch ID: | 81220 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | SD | Run ID: | ICP-MS4_170711A | Analysis Date: | 7/11/2017 12:24:00 PM | Prep Date: | 6/30/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| Calcium | 128 | 15.0 | 0 | 129 | | | | 0.551 | 10 | |
| Sodium | 129 | 15.0 | 0 | 127 | | | | 1.21 | 10 | |

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|-----------------------|------------|-----------|
| Sample ID | 1706306-02A PDS | Batch ID: | 81220 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | PDS | Run ID: | ICP-MS4_170711A | Analysis Date: | 7/11/2017 12:44:00 PM | Prep Date: | 6/30/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Calcium | 178 | 3.00 | 50.0 | 129 | 98.4 | 80 | 120 | | | |
| Sodium | 175 | 3.00 | 50.0 | 127 | 95.8 | 80 | 120 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706327
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170707C

The QC data in batch 81256 applies to the following samples: 1706327-01B, 1706327-02B, 1706327-03B, 1706327-04B, 1706327-05B, 1706327-06B, 1706327-07B, 1706327-08B, 1706327-09B

| | | | |
|---------------------------|--------------------------------|---|----------------------------|
| Sample ID MB-81256 | Batch ID: 81256 | TestNo: SW6020A | Units: mg/L |
| SampType: MBLK | Run ID: ICP-MS5_170707C | Analysis Date: 7/7/2017 3:21:00 PM | Prep Date: 7/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Lithium | <0.00500 | 0.0100 | | | | | | | | |
| Molybdenum | <0.00200 | 0.00500 | | | | | | | | |

| | | | |
|----------------------------|--------------------------------|---|----------------------------|
| Sample ID LCS-81256 | Batch ID: 81256 | TestNo: SW6020A | Units: mg/L |
| SampType: LCS | Run ID: ICP-MS5_170707C | Analysis Date: 7/7/2017 3:23:00 PM | Prep Date: 7/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Lithium | 0.206 | 0.0100 | 0.200 | 0 | 103 | 80 | 120 | | | |
| Molybdenum | 0.194 | 0.00500 | 0.200 | 0 | 97.2 | 80 | 120 | | | |

| | | | |
|-----------------------------|--------------------------------|---|----------------------------|
| Sample ID LCSD-81256 | Batch ID: 81256 | TestNo: SW6020A | Units: mg/L |
| SampType: LCSD | Run ID: ICP-MS5_170707C | Analysis Date: 7/7/2017 3:24:00 PM | Prep Date: 7/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Lithium | 0.202 | 0.0100 | 0.200 | 0 | 101 | 80 | 120 | 2.00 | 15 | |
| Molybdenum | 0.197 | 0.00500 | 0.200 | 0 | 98.6 | 80 | 120 | 1.41 | 15 | |

| | | | |
|---------------------------------|--------------------------------|---|----------------------------|
| Sample ID 1706306-02B SD | Batch ID: 81256 | TestNo: SW6020A | Units: mg/L |
| SampType: SD | Run ID: ICP-MS5_170707C | Analysis Date: 7/7/2017 3:30:00 PM | Prep Date: 7/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|---------|--------|-----------|---------|------|----------|-----------|------|----------|------|
| Lithium | <0.0250 | 0.0500 | 0 | 0.0178 | | | | 0 | 10 | |
| Molybdenum | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |

| | | | |
|----------------------------------|--------------------------------|---|----------------------------|
| Sample ID 1706306-02B PDS | Batch ID: 81256 | TestNo: SW6020A | Units: mg/L |
| SampType: PDS | Run ID: ICP-MS5_170707C | Analysis Date: 7/7/2017 3:48:00 PM | Prep Date: 7/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Lithium | 0.212 | 0.0100 | 0.200 | 0.0178 | 96.9 | 80 | 120 | | | |
| Molybdenum | 0.184 | 0.00500 | 0.200 | 0 | 91.8 | 80 | 120 | | | |

| | | | |
|---------------------------------|--------------------------------|---|----------------------------|
| Sample ID 1706306-02B MS | Batch ID: 81256 | TestNo: SW6020A | Units: mg/L |
| SampType: MS | Run ID: ICP-MS5_170707C | Analysis Date: 7/7/2017 3:49:00 PM | Prep Date: 7/3/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Lithium | 0.217 | 0.0100 | 0.200 | 0.0178 | 99.4 | 80 | 120 | | | |
| Molybdenum | 0.191 | 0.00500 | 0.200 | 0 | 95.5 | 80 | 120 | | | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706327
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170707C

| Sample ID | 1706306-02B MSD | Batch ID: | 81256 | TestNo: | SW6020A | Units: | mg/L | | | |
|------------|-----------------|-----------|-----------------|----------------|---------------------|------------|-----------|-------|----------|------|
| SampType: | MSD | Run ID: | ICP-MS5_170707C | Analysis Date: | 7/7/2017 3:51:00 PM | Prep Date: | 7/3/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.218 | 0.0100 | 0.200 | 0.0178 | 100 | 80 | 120 | 0.720 | 15 | |
| Molybdenum | 0.191 | 0.00500 | 0.200 | 0 | 95.5 | 80 | 120 | 0.028 | 15 | |

| | | | | |
|--------------------|----|---|-----|---------------------------------------|
| Qualifiers: | B | Analyte detected in the associated Method Blank | DF | Dilution Factor |
| | J | Analyte detected between MDL and RL | MDL | Method Detection Limit |
| | ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| | RL | Reporting Limit | S | Spike Recovery outside control limits |
| | J | Analyte detected between SDL and RL | N | Parameter not NELAC certified |

CLIENT: B-Environmental
Work Order: 1706327
Project: Coieto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_170706A

The QC data in batch 81294 applies to the following samples: 1706327-01C, 1706327-02C, 1706327-03C, 1706327-04C, 1706327-05C, 1706327-06C, 1706327-07C, 1706327-08C, 1706327-09C

Sample ID **1706327-01C-DUP** Batch ID: **81294** TestNo: **M2320 B** Units: **mg/L @ pH 4.51**
 SampType: **DUP** Run ID: **TITRATOR_170706A** Analysis Date: **7/6/2017 1:05:00 PM** Prep Date: **7/6/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | 267 | 20.0 | 0 | 261.2 | | | | 2.16 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | 267 | 20.0 | 0 | 261.2 | | | | 2.16 | 20 | |

Sample ID **MB-81294** Batch ID: **81294** TestNo: **M2320 B** Units: **mg/L @ pH 4.49**
 SampType: **MBLK** Run ID: **TITRATOR_170706A** Analysis Date: **7/6/2017 2:33:00 PM** Prep Date: **7/6/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Total (As CaCO3) | <20.0 | 20.0 | | | | | | | | |

Sample ID **LCS-81294** Batch ID: **81294** TestNo: **M2320 B** Units: **mg/L @ pH 4.13**
 SampType: **LCS** Run ID: **TITRATOR_170706A** Analysis Date: **7/6/2017 2:38:00 PM** Prep Date: **7/6/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Total (As CaCO3) | 52.5 | 20.0 | 50.00 | 0 | 105 | 74 | 129 | | | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

2609 North River Road, Port Allen, Louisiana 70767
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ARS International, LLC

Laboratory Analysis Report

ARS1-17-01930

Prepared for:

B-Environmental

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Project Manager Review

Management Review

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Contact Person: Questions regarding this analytical report should be addressed to:

**Project Manager
ProjectManagers@amrad.com**

**Phone: 225.381.2991
Fax: 225.381.2996**



LELAP Cert# 01949



2609 North River Road, Port Allen, Louisiana 70767
 1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01930

Request or PO Number: N/A

Client Sample ID: S171790842 (Batch 57039)

ARS Sample ID: ARS1-17-01930-001

Sample Collection Date: 06/27/17

Date Received: 07/03/17

Sample Matrix: Aqueous

Report Date: 08/03/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.094 | 0.121 | 0.200 | 0.082 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/19/17 11:23 | SCAUSEY | 108% |
| Ra-228 | 0.845 | 1.002 | 1.664 | 0.785 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/12/17 12:19 | SCAUSEY | 88% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-01930

Request or PO Number: N/A

Client Sample ID: S17179084A (Batch 57039)

ARS Sample ID: ARS1-17-01930-002

Sample Collection Date: 06/27/17

Date Received: 07/03/17

Sample Matrix: Aqueous

Report Date: 08/03/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.639 | 0.231 | 0.173 | 0.066 | NP | Q | pCi/L | ARS-010/EPA 903.0/904.0 | 07/20/17 8:12 | CTRAMEL | 90% |
| Ra-228 | -0.048 | 0.706 | 1.284 | 0.596 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/13/17 12:00 | CTRAMEL | 86% |

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ARS Sample Delivery Group: ARS1-17-01930

Request or PO Number: N/A

Client Sample ID: S17179084B (Batch 57039)

ARS Sample ID: ARS1-17-01930-003

Sample Collection Date: 06/27/17

Date Received: 07/03/17

Sample Matrix: Aqueous

Report Date: 08/03/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.355 | 0.176 | 0.179 | 0.068 | NP | Q | pCi/L | ARS-010/EPA 903.0/904.0 | 07/24/17 8:46 | CTRAMEL | 91% |
| Ra-228 | 0.798 | 0.769 | 1.244 | 0.577 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/17/17 12:39 | CTRAMEL | 94% |

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ARS Sample Delivery Group: ARS1-17-01930

Request or PO Number: N/A

Client Sample ID: S17179084C (Batch 57039)

ARS Sample ID: ARS1-17-01930-004

Sample Collection Date: 06/27/17

Date Received: 07/03/17

Sample Matrix: Aqueous

Report Date: 08/03/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.317 | 0.166 | 0.201 | 0.084 | NP | Q | pCi/L | ARS-010/EPA 903.0/904.0 | 07/24/17 8:46 | CTRAMEL | 100% |
| Ra-228 | 0.203 | 0.612 | 1.074 | 0.497 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/17/17 12:39 | CTRAMEL | 104% |

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ARS Sample Delivery Group: ARS1-17-01930

Request or PO Number: N/A

Client Sample ID: S17179084D (Batch 57039)

ARS Sample ID: ARS1-17-01930-005

Sample Collection Date: 06/27/17

Date Received: 07/03/17

Sample Matrix: Aqueous

Report Date: 08/03/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.115 | 0.163 | 0.276 | 0.119 | NP | U,Q | pCi/L | ARS-010/EPA 903.0/904.0 | 07/24/17 8:46 | CTRAMEL | 104% |
| Ra-228 | 0.735 | 0.688 | 1.108 | 0.512 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/17/17 12:39 | CTRAMEL | 99% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-01930

Request or PO Number: N/A

Client Sample ID: S17179084E (Batch 57039)

ARS Sample ID: ARS1-17-01930-006

Sample Collection Date: 06/27/17

Date Received: 07/03/17

Sample Matrix: Aqueous

Report Date: 08/03/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.379 | 0.176 | 0.173 | 0.067 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 08/03/17 8:07 | CTRAMEL | 98% |
| Ra-228 | 0.990 | 0.756 | 1.184 | 0.550 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/27/17 12:11 | CTRAMEL | 91% |

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ARS Sample Delivery Group: ARS1-17-01930

Request or PO Number: N/A

Client Sample ID: S17179084F (Batch 57039)

ARS Sample ID: ARS1-17-01930-007

Sample Collection Date: 06/27/17

Date Received: 07/03/17

Sample Matrix: Aqueous

Report Date: 08/03/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.233 | 0.136 | 0.159 | 0.062 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 08/03/17 8:07 | CTRAMEL | 103% |
| Ra-228 | 1.162 | 0.693 | 1.024 | 0.473 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 07/27/17 12:11 | CTRAMEL | 104% |

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ARS Sample Delivery Group: ARS1-17-01930

Request or PO Number: N/A

Client Sample ID: S17179084G (Batch 57039)

ARS Sample ID: ARS1-17-01930-008

Sample Collection Date: 06/27/17

Date Received: 07/03/17

Sample Matrix: Aqueous

Report Date: 08/03/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.134 | 0.129 | 0.200 | 0.084 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 08/03/17 8:07 | CTRAMEL | 105% |
| Ra-228 | 0.669 | 0.742 | 1.222 | 0.570 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/27/17 12:11 | CTRAMEL | 98% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-01930

Request or PO Number: N/A

Client Sample ID: S17179084H (Batch 57039)

ARS Sample ID: ARS1-17-01930-009

Sample Collection Date: 06/27/17

Date Received: 07/03/17

Sample Matrix: Aqueous

Report Date: 08/03/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.364 | 0.249 | 0.352 | 0.150 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 08/03/17 8:07 | CTRAMEL | 73% |
| Ra-228 | 1.883 | 1.084 | 1.597 | 0.741 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 07/27/17 12:11 | CTRAMEL | 78% |

Project Manager Review

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QC Results Report

2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

Sample Delivery Group: ARS1-17-01930

Laboratory Control Sample Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | LCS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|----------------------|
| ARS1-B17-01375 | LCS | RA-226 | 23.217 | 3.753 | 0.106 | 27.545 | N/A | pCi/L | ARS-010/EPA 903 | 7/19/17 9:21 | SC | 84 | 75%-125% |
| ARS1-B17-01375 | LCS | RA-228 | 37.334 | 6.220 | 1.089 | 39.784 | N/A | pCi/L | ARS-010/EPA 904 | 7/19/17 9:21 | SC | 94 | 75%-125% |

Blank Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|
| ARS1-B17-01375 | MBL | RA-226 | 0.047 | 0.059 | 0.097 | NA | U | pCi/L | ARS-010/EPA 903 | 7/19/17 9:21 | SC |
| ARS1-B17-01375 | MBL | RA-228 | 0.085 | 0.375 | 0.664 | NA | U | pCi/L | ARS-010/EPA 904 | 7/19/17 9:21 | SC |

RER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | RER | RER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01375 | LCSD | RA-226 | 23.217 | 3.753 | 23.497 | 3.803 | N/A | pCi/L | ARS-010/EPA 903 | 7/19/17 9:21 | SC | 0.04 | < 1 |
| ARS1-B17-01375 | LCSD | RA-228 | 37.334 | 6.220 | 36.006 | 5.998 | N/A | pCi/L | ARS-010/EPA 904 | 7/19/17 9:21 | SC | 0.11 | < 1 |

DER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | DER | DER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01375 | LCSD | RA-226 | 23.217 | 3.753 | 23.497 | 3.803 | N/A | pCi/L | ARS-010/EPA 903 | 7/19/17 9:21 | SC | 0.05 | < 3 |
| ARS1-B17-01375 | LCSD | RA-228 | 37.334 | 6.220 | 36.006 | 5.998 | N/A | pCi/L | ARS-010/EPA 904 | 7/19/17 9:21 | SC | 0.15 | < 3 |

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Project Manager Review

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NELAP Certificate # E87558



**INTERNATIONAL
QC Results Report**

2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

Sample Delivery Group: ARS1-17-01930

Laboratory Control Sample Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | LCS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|----------------------|
| ARS1-B17-01381 | LCS | RA-226 | 24.238 | 3.914 | 0.106 | 27.502 | N/A | pCi/L | ARS-010/EPA 903 | 7/20/17 10:11 | CT | 88 | 75%-125% |
| ARS1-B17-01381 | LCS | RA-228 | 39.109 | 6.492 | 1.063 | 39.784 | N/A | pCi/L | ARS-010/EPA 904 | 7/13/17 13:59 | CT | 98 | 75%-125% |

Blank Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|
| ARS1-B17-01381 | MBL | RA-226 | 0.270 | 0.108 | 0.097 | NA | | pCi/L | ARS-010/EPA 903 | 7/20/17 10:11 | CT |
| ARS1-B17-01381 | MBL | RA-228 | 0.702 | 0.394 | 0.577 | NA | | pCi/L | ARS-010/EPA 904 | 7/13/17 13:59 | CT |

RER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | RER | RER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01381 | LCSD | RA-226 | 24.238 | 3.914 | 24.422 | 3.950 | N/A | pCi/L | ARS-010/EPA 903 | 7/20/17 10:11 | CT | 0.02 | < 1 |
| ARS1B17-01381 | LCSD | RA-228 | 39.109 | 6.492 | 34.948 | 5.821 | N/A | pCi/L | ARS-010/EPA 904 | 7/13/17 13:59 | CT | 0.34 | < 1 |

DER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | DER | DER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01381 | LCSD | RA-226 | 24.238 | 3.914 | 24.422 | 3.950 | N/A | pCi/L | ARS-010/EPA 903 | 7/20/17 10:11 | CT | 0.03 | < 3 |
| ARS1-B17-01381 | LCSD | RA-228 | 39.109 | 6.492 | 34.948 | 5.821 | N/A | pCi/L | ARS-010/EPA 904 | 7/13/17 13:59 | CT | 0.48 | < 3 |

Project Manager Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

LELAP Certificate# 01949

NELAP Certificate # E87558



**INTERNATIONAL
QC Results Report**

2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

Sample Delivery Group: ARS1-17-01930

Laboratory Control Sample Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | LCS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|----------------------|
| ARS1-B17-01419 | LCS | RA-226 | 29.330 | 4.720 | 0.102 | 27.528 | N/A | pCi/L | ARS-010/EPA 903 | 7/24/17 10:46 | CT | 107 | 75%-125% |
| ARS1-B17-01419 | LCS | RA-228 | 35.419 | 5.916 | 1.083 | 39.784 | N/A | pCi/L | ARS-010/EPA 904 | 7/17/17 14:38 | CT | 89 | 75%-125% |

Blank Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|
| ARS1-B17-01419 | MBL | RA-226 | 0.111 | 0.075 | 0.099 | NA | | pCi/L | ARS-010/EPA 903 | 7/24/17 10:46 | CT |
| ARS1-B17-01419 | MBL | RA-228 | 0.145 | 0.345 | 0.597 | NA | U | pCi/L | ARS-010/EPA 904 | 7/17/17 14:38 | CT |

RER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | RER | RER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01419 | LCSD | RA-226 | 29.330 | 4.720 | 19.481 | 3.168 | N/A | pCi/L | ARS-010/EPA 903 | 7/24/17 10:46 | CT | 1.25 | < 1 |
| ARS1-B17-01419 | LCSD | RA-228 | 35.419 | 5.916 | 31.804 | 5.332 | N/A | pCi/L | ARS-010/EPA 904 | 7/17/17 14:38 | CT | 0.32 | < 1 |

DER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | DER | DER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01419 | LCSD | RA-226 | 29.330 | 4.720 | 19.481 | 3.168 | N/A | pCi/L | ARS-010/EPA 903 | 7/24/17 10:46 | CT | 1.73 | < 3 |
| ARS1-B17-01419 | LCSD | RA-228 | 35.419 | 5.916 | 31.804 | 5.332 | N/A | pCi/L | ARS-010/EPA 904 | 7/17/17 14:38 | CT | 0.45 | < 3 |

Project Manager Review

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NELAP Certificate # E87558



2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

**INTERNATIONAL
QC Results Report**

Sample Delivery Group: ARS1-17-01930

Laboratory Control Sample Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | LCS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|----------------------|
| ARS1-B17-01493 | LCS | RA-226 | 25.885 | 4.175 | 0.109 | 27.630 | N/A | pCi/L | ARS-010/EPA 903 | 8/3/17 8:07 | SC | 94 | 75%-125% |
| ARS1-B17-01493 | LCS | RA-228 | 34.437 | 5.749 | 1.041 | 39.784 | N/A | pCi/L | ARS-010/EPA 904 | 8/3/17 8:07 | SC | 87 | 75%-125% |

Blank Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|
| ARS1-B17-01493 | MBL | RA-226 | 0.017 | 0.051 | 0.097 | NA | U | pCi/L | ARS-010/EPA 903 | 8/3/17 8:07 | SC |
| ARS1-B17-01493 | MBL | RA-228 | 0.118 | 0.335 | 0.586 | NA | U | pCi/L | ARS-010/EPA 904 | 8/3/17 8:07 | SC |

RER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | RER | RER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01493 | LCSD | RA-226 | 25.885 | 4.175 | 28.276 | 4.560 | N/A | pCi/L | ARS-010/EPA 903 | 8/3/17 8:07 | SC | 0.27 | < 1 |
| ARS1-B17-01493 | LCSD | RA-228 | 34.437 | 5.749 | 34.101 | 5.697 | N/A | pCi/L | ARS-010/EPA 904 | 8/3/17 8:07 | SC | 0.03 | < 1 |

DER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | DER | DER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01493 | LCSD | RA-226 | 25.885 | 4.175 | 28.276 | 4.560 | N/A | pCi/L | ARS-010/EPA 903 | 8/3/17 8:07 | SC | 0.39 | < 3 |
| ARS1-B17-01493 | LCSD | RA-228 | 34.437 | 5.749 | 34.101 | 5.697 | N/A | pCi/L | ARS-010/EPA 904 | 8/3/17 8:07 | SC | 0.04 | < 3 |

Project Manager Review

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NELAP Certificate # E87558



2609 North River Road • Port Allen, Louisiana 70767

1 (800) 401-4277 • Fax (225) 381-2996

Notes (Case Narrative):

Comments:

- 1.0) All MDA/MDC values are calculated on a sample specific basis.
- 2.0) Soil and Sludge analysis are reported on a wet basis or an as received basis unless otherwise indicated.
- 3.0) Data in this report are within the limits of uncertainty specified in the reference method unless otherwise specified.
- 4.0) Modified analysis procedures are procedures that are modified to meet the certain specifications. An example may be the use of a water method to analyze a solid matrix due to the lack of an officially recognized procedure for the analysis of the solid matrix. Modified analyses are indicated by the subsequent addition of "m" to the procedure number (i.e. 900.0M).
- 5.0) Total activity is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring radioactive decay chains and other prominent radioactive nuclides. Total activity may be lower than the actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not representative of nuclides that emit solely alpha or beta particles.
- 6.0) Ra-228 is determined via secular equilibrium with its daughter, Actinium 228 (Gamma Spectroscopy only).
- 7.0) U-238 is determined via secular equilibrium with its daughter, Thorium 234 (Gamma Spectroscopy only).
- 8.0) All gamma spectroscopy was performed utilizing high purity germanium detectors (HPGe).
- 9.0) ARS makes every attempt to match sample density to calibrated density; however, in some cases, it is not practical or possible to do so and data results may be affected (Gamma Spectroscopy only).
- 10.0) Gamma spectroscopy results are calculated values based on the ORTEC® GammaVision ENV32 Analysis Engine.
- 11.0) ACLASS DOD and ISO 17025 certification applies only to the following analytes and methods: Gross Alpha and Gross Beta (EPA 900, SM7110B&C, SW846 9310); Radium 226 (EPA 903, EPA 903.1, SM 7500 Ra-B, SW846 9315); Radium 228 (EPA 904, SM 7500 Ra-B SW846 9320); Iodine-131(EPA 901.1); Uranium by ICPMS (EPA 200.8); Strontium 89/90 (EPA 905, Eichrom SRW01, HASL 300 Sr-03-RC); Tritium (EPA 906, EPA 906M); Gamma Emitters (EPA 901.1, SM7120B, HASL 300 Ga-01-R); Americium-241, Curium 242/244, Plutonium 239/240 and 241, Thorium 228/230/232, Uranium 234/233 and 238 (Eichrom ACW03 VBS); Lead 210 (HASL 300 Pb-01-RC, Eichrom OTW01); Polonium 210 (HASL 300 Po-01-RC, HASL 300 Po-02-RC); Technetium-99 (Eichrom TCW02, Eichrom TCS01M).

Method References:

- 1.0) EPA 600/4-80-032; Prescribed Procedures for the Measurements of Radioactivity in Drinking Water, August 1980.
- 2.0) Standard Methods for the Examination of Water and Wastewater (On-Line Edition)
- 3.0) EPA SW-846; Test Methods for Evaluating Solid Waste, (On-Line edition)
- 4.0) EPA 600/4/79-020; Methods for Chemical Analysis of Water and Waste, March 1983.
- 5.0) HASL 300; The Procedures Manual of the Environmental Measurements Laboratory, Volume I, 28th Edition February, 1997.

Definitions:

| | |
|----------|---|
| CRDL | Contract Required Detection Limit |
| CSU | Combined Standard Uncertainty |
| DLC | Decision Level Concentration (ANSI N42.23) or critical level |
| DO | Duplicate Original |
| DUP | Method Duplicate |
| LCS/LCSD | Laboratory Control Sample/Laboratory Control Sample Duplicate |
| MDA | Minimum Detectable Activity |
| MDC | (Minimum Detectable Concentration) minimum concentration of the analyte that ARS can detect utilizing the specific analysis |
| MBL | Method Blank |
| MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| N/A | Not Applicable |
| NP | Not Provided |
| NR | Not Referenced |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |

Data Qualifiers:

| | |
|----|--|
| B | The analyte is found in both the associated method blank and the sample. This flag indicates probable blank contamination. |
| D | Sample analysis accomplished through dilution. |
| J | The reported result is an estimated value above the limit of detection but outside of quantitation range (e.g., matrix interference was observed). |
| Q | One or more quality control criteria failed (e.g., LCS recovery, surrogate spike recovery, or CCV recovery). |
| U | Activity is below the MDC, MDA, MDL, or LOD |
| N | The analyte is a tentatively identified compound using mass spectrometry or any non-customer requested compounds that are tentatively identified. |
| * | LCS/LCSD or MS/MSD fails RPD criteria. |
| S | Spike |
| SC | Subcontracted out to another qualified laboratory |
| H | Holding time exceeded |

LELAP Cert# 01949

NELAP Cert# E87558

ARS-059-010
Revision: 9.1
Revision Date: 03-14-2017

B Environmental Laboratory, LLC
 1606 E Brazos Suite D, Victoria, Texas 77901 ph: (361) 572-8224

Chain Of Custody Rec

Batch # **57039** TEMP UN-C: **92** Page **1** of **2**

Customer / Report Information Billing Information Check box if Billing is the same as Report Information

Name: Coleto Creek Power Address: Attention: Rick Coleman PO #

Address: P.O. Box 8; Fannin, TX 77960 Project: CCR Sampling Comments:

Attention: Rick Coleman PO # EMAIL: richard.coleman@dynam.com Requested Analysis Completed By laboratory

| Client / Field Sample ID | Collected | | Matrix | Container | Preservative | Metals* | | | | | | | | | | Custody Seals Present | | | | | | | | | | |
|--------------------------|-----------|------|--------|-----------|-----------------------------------|--|--|---|--|--|--|---|--|--|--|---|--|--|--|---|--|--|--|---|--|------------|
| | Date | Time | | | | C = Composite | G = Grab | DW - Drinking H2O | S - Solid | WW - Waste H2O | SL - Sludge | L - Liquid | W - Water | TYPE | NUMBER | | Size | As | SO4 | pH | TDS | Ra226 & Ra228 | Alk Tot, Carb, Bi Carb | Diss Li & Mo | Intact | |
| MW-8 | 6-27-17 | 807 | WW | P | 1L 500mL H2SO4 H3PO4 ICE | <input checked="" type="checkbox"/> HNO3 | <input checked="" type="checkbox"/> NaOH | <input checked="" type="checkbox"/> HCl | <input checked="" type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 | <input checked="" type="checkbox"/> NaOH | <input checked="" type="checkbox"/> HCl | <input checked="" type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 | <input checked="" type="checkbox"/> NaOH | <input checked="" type="checkbox"/> HCl | <input checked="" type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 | <input checked="" type="checkbox"/> NaOH | <input checked="" type="checkbox"/> HCl | <input checked="" type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 | <input checked="" type="checkbox"/> NaOH | <input checked="" type="checkbox"/> HCl | <input checked="" type="checkbox"/> Na2SO3 | S171790842 |
| MW-4 | 1033 | | WW | P | 1L 500mL H2SO4 H3PO4 ICE | <input checked="" type="checkbox"/> HNO3 | <input checked="" type="checkbox"/> NaOH | <input checked="" type="checkbox"/> HCl | <input checked="" type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 | <input checked="" type="checkbox"/> NaOH | <input checked="" type="checkbox"/> HCl | <input checked="" type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 | <input checked="" type="checkbox"/> NaOH | <input checked="" type="checkbox"/> HCl | <input checked="" type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 | <input checked="" type="checkbox"/> NaOH | <input checked="" type="checkbox"/> HCl | <input checked="" type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 | <input checked="" type="checkbox"/> NaOH | <input checked="" type="checkbox"/> HCl | <input checked="" type="checkbox"/> Na2SO3 | S17179084A |
| BV-15 | 954 | | WW | P | 1L 500mL H2SO4 H3PO4 ICE | <input checked="" type="checkbox"/> HNO3 | <input checked="" type="checkbox"/> NaOH | <input checked="" type="checkbox"/> HCl | <input checked="" type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 | <input checked="" type="checkbox"/> NaOH | <input checked="" type="checkbox"/> HCl | <input checked="" type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 | <input checked="" type="checkbox"/> NaOH | <input checked="" type="checkbox"/> HCl | <input checked="" type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 | <input checked="" type="checkbox"/> NaOH | <input checked="" type="checkbox"/> HCl | <input checked="" type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 | <input checked="" type="checkbox"/> NaOH | <input checked="" type="checkbox"/> HCl | <input checked="" type="checkbox"/> Na2SO3 | S17179084B |
| BV-21 | 925 | | WW | P | 1L 500mL H2SO4 H3PO4 ICE | <input checked="" type="checkbox"/> HNO3 | <input checked="" type="checkbox"/> NaOH | <input checked="" type="checkbox"/> HCl | <input checked="" type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 | <input checked="" type="checkbox"/> NaOH | <input checked="" type="checkbox"/> HCl | <input checked="" type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 | <input checked="" type="checkbox"/> NaOH | <input checked="" type="checkbox"/> HCl | <input checked="" type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 | <input checked="" type="checkbox"/> NaOH | <input checked="" type="checkbox"/> HCl | <input checked="" type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 | <input checked="" type="checkbox"/> NaOH | <input checked="" type="checkbox"/> HCl | <input checked="" type="checkbox"/> Na2SO3 | S17179084C |
| BV-22 | 853 | | WW | P | 1L 500mL H2SO4 H3PO4 ICE | <input checked="" type="checkbox"/> HNO3 | <input checked="" type="checkbox"/> NaOH | <input checked="" type="checkbox"/> HCl | <input checked="" type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 | <input checked="" type="checkbox"/> NaOH | <input checked="" type="checkbox"/> HCl | <input checked="" type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 | <input checked="" type="checkbox"/> NaOH | <input checked="" type="checkbox"/> HCl | <input checked="" type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 | <input checked="" type="checkbox"/> NaOH | <input checked="" type="checkbox"/> HCl | <input checked="" type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 | <input checked="" type="checkbox"/> NaOH | <input checked="" type="checkbox"/> HCl | <input checked="" type="checkbox"/> Na2SO3 | S17179084D |
| BV-1 | 1300 | | WW | P | 1L 500mL H2SO4 H3PO4 ICE | <input checked="" type="checkbox"/> HNO3 | <input checked="" type="checkbox"/> NaOH | <input checked="" type="checkbox"/> HCl | <input checked="" type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 | <input checked="" type="checkbox"/> NaOH | <input checked="" type="checkbox"/> HCl | <input checked="" type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 | <input checked="" type="checkbox"/> NaOH | <input checked="" type="checkbox"/> HCl | <input checked="" type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 | <input checked="" type="checkbox"/> NaOH | <input checked="" type="checkbox"/> HCl | <input checked="" type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 | <input checked="" type="checkbox"/> NaOH | <input checked="" type="checkbox"/> HCl | <input checked="" type="checkbox"/> Na2SO3 | S17179084E |
| Dup 2 | | | WW | P | 1L 500mL H2SO4 H3PO4 ICE | <input checked="" type="checkbox"/> HNO3 | <input checked="" type="checkbox"/> NaOH | <input checked="" type="checkbox"/> HCl | <input checked="" type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 | <input checked="" type="checkbox"/> NaOH | <input checked="" type="checkbox"/> HCl | <input checked="" type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 | <input checked="" type="checkbox"/> NaOH | <input checked="" type="checkbox"/> HCl | <input checked="" type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 | <input checked="" type="checkbox"/> NaOH | <input checked="" type="checkbox"/> HCl | <input checked="" type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 | <input checked="" type="checkbox"/> NaOH | <input checked="" type="checkbox"/> HCl | <input checked="" type="checkbox"/> Na2SO3 | S17179084F |

Required Turnaround: Routine (6-10 Business days) Expedite / Rush: 1 Business Day 2 Business Days 3 Business days 5 Business days Other

Surcharge will apply to RUSH TAT Authorized By: Container Type: P=Plastic, G=Glass, V=Voa, O=Other Carrier ID:

Relinquished By: Date: 6-27-17 Time: 1400 Received By: Date: 6-27-17 Time: 1400
 Relinquished By: Date: 6-27-17 Time: 1625 Received By: Date: 6-27-17 Time: 1625

B Environmental Laboratory, LLC
 1606 Brazos Suite D Victoria, Texas 77901 Ph. (361) 572-8224
Chain Of Custody Rec Batch # 57039 TEMP UN-C: 9.2 Page 2 of 2
 Billing Information Check box if Billing is the same as Report Information THERM ID# 3 TEMP Corr: 9.0

Name: Coletto Creek Power Address: PO #
 Attention: Rick Coleman Attention: PO #
 Address: P. O. Box 8; Fannin, TX 77960 Project: CCR Sampling
 Comments: Requested Analysis Completed By laboratory

| Client / Field Sample ID | Collected | | Matrix | Container | TYPE | NUMBER | Size | Preservative | Metals* | Cl, F*, SO4 | pH | TDS | Ra226 & Ra228 | Alk: Tot, Carb, BiCarb | Diss Li & Mo | Custody Seals Present | Intact | LAB Sample Number |
|--------------------------|-----------|------|--------|-----------|------|--------|------|--------------|---------|-------------|----|-----|---------------|------------------------|--------------|-----------------------|--------|-------------------|
| | Date | Time | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | |
|---------|---------|------|---|----|---|------------|----|--------------------------------|--|---|---|---|---|---|---|---|--|------------|
| mw-10 A | 6-27-17 | 1124 | G | WW | P | 6 500mL | 1L | <input type="checkbox"/> H2SO4 | <input checked="" type="checkbox"/> HNO3 | X | X | X | X | X | X | X | | S17179084G |
| | | | | | | | | <input type="checkbox"/> H3PO4 | <input type="checkbox"/> NaOH | X | X | X | X | X | X | | | |

| | | | | | | | | | | | | | | | | | | |
|------|---------|------|---|----|---|------------|----|--------------------------------|--|---|---|---|---|---|---|---|--|------------|
| BV-5 | 6-27-17 | 1335 | G | WW | P | 6 500mL | 1L | <input type="checkbox"/> H2SO4 | <input checked="" type="checkbox"/> HNO3 | X | X | X | X | X | X | X | | S17179084H |
| | | | | | | | | <input type="checkbox"/> H3PO4 | <input type="checkbox"/> NaOH | X | X | X | X | X | X | | | |

| | | | | | | | | | | | | | | | | | | |
|--|--|--|---|----|---|------------|----|--------------------------------|--|---|---|---|---|---|---|---|--|--|
| | | | G | WW | P | 6 500mL | 1L | <input type="checkbox"/> H2SO4 | <input checked="" type="checkbox"/> HNO3 | X | X | X | X | X | X | X | | |
| | | | | | | | | <input type="checkbox"/> H3PO4 | <input type="checkbox"/> NaOH | X | X | X | X | X | X | | | |

| | | | | | | | | | | | | | | | | | | |
|--|--|--|---|----|---|------------|----|--------------------------------|--|---|---|---|---|---|---|---|--|--|
| | | | G | WW | P | 6 500mL | 1L | <input type="checkbox"/> H2SO4 | <input checked="" type="checkbox"/> HNO3 | X | X | X | X | X | X | X | | |
| | | | | | | | | <input type="checkbox"/> H3PO4 | <input type="checkbox"/> NaOH | X | X | X | X | X | X | | | |

| | | | | | | | | | | | | | | | | | | |
|--|--|--|---|----|---|------------|----|--------------------------------|--|---|---|---|---|---|---|---|--|--|
| | | | G | WW | P | 6 500mL | 1L | <input type="checkbox"/> H2SO4 | <input checked="" type="checkbox"/> HNO3 | X | X | X | X | X | X | X | | |
| | | | | | | | | <input type="checkbox"/> H3PO4 | <input type="checkbox"/> NaOH | X | X | X | X | X | X | | | |

| | | | | | | | | | | | | | | | | | | |
|--|--|--|---|----|---|------------|----|--------------------------------|--|---|---|---|---|---|---|---|--|--|
| | | | G | WW | P | 6 500mL | 1L | <input type="checkbox"/> H2SO4 | <input checked="" type="checkbox"/> HNO3 | X | X | X | X | X | X | X | | |
| | | | | | | | | <input type="checkbox"/> H3PO4 | <input type="checkbox"/> NaOH | X | X | X | X | X | X | | | |

| | | | | | | | | | | | | | | | | | | |
|--|--|--|---|----|---|------------|----|--------------------------------|--|---|---|---|---|---|---|---|--|--|
| | | | G | WW | P | 6 500mL | 1L | <input type="checkbox"/> H2SO4 | <input checked="" type="checkbox"/> HNO3 | X | X | X | X | X | X | X | | |
| | | | | | | | | <input type="checkbox"/> H3PO4 | <input type="checkbox"/> NaOH | X | X | X | X | X | X | | | |

Required Turnaround: Routine (6-10 Business days) Expedite / Rush: 1 Business Day 2 Business Days 3 Business days Other

Surcharge will apply to RUSH TAT Authorized By: _____ Container Type: P=Plastic, G=Glass, V=Voa, O=Other Carrier ID: _____
 Relinquished By: _____ Date: 6-27-17 Time: 1400
 Relinquished By: _____ Date: 6/27/17 Time: 1625
 Relinquished By: _____ Date: _____ Time: _____

BatchNo: 57084

SAMPLE REPORT



T104704328-17-14

Business

Coletto Creek Power - R Coleman
PO Box 8
Fannin TX 77960
Att: Rick Coleman



Laboratory

B Environmental, LLC.
1606 E Brazos, Suite D
Victoria TX 77901
ph. 361-572-8224

Reference Information

Project: CCR Sampling
Printed: Thursday,
August 03, 2017

Re: Coletto Creek Power - R Coleman

Dear: Rick Coleman

Attached are the results for sample(s) received on 6/28/2017

The analytical results relate only to the samples tested.

All supporting quality data meets the requirements of NELAC unless noted in the case narrative section of the report.

This report contains 31 pages (including the cover page)

If you have any questions concerning this report, please do not hesitate to call (361) 572-8224 or Fax us at (361) 572-4115

Respectfully Submitted,

Kevin Baros

Laboratory Director



B Environmental, LLC. 1606 E Brazos, Suite D Victoria TX 77901
This report shall not be reproduced except in full, without written approval of the laboratory

Batch No:

Sample Receipt Checklist

Date Received:

Project: Received By:

Login completed by:

Carrier Name:

- YES NO Not Present
- YES NO Not Present
- YES NO Not Present
- YES NO
- YES NO
- YES NO
- YES NO
- YES NO
- YES NO
- YES NO
- YES NO >0 <6 °C On Ice
- YES NO No VOA Vials submitted
- YES NO Not Applicable

*TEMP pH Adjusted? Checked By

Any No and/or N/A (not applicable) response must be detailed in the comments section below.

Client contacted: Person Contacted:
Contacted by: Date Contacted:

Regarding:

Comments:

Corrective Action:



Sample Report Information



| | | | | | |
|------------|-------------------|------------|--------------|----------|---------------|
| Sample ID: | S171791654 | Client ID: | BV-10 | Sampler: | Client |
|------------|-------------------|------------|--------------|----------|---------------|

Client: Coletto Creek Power - R Coleman

Study: Water

Project: CCR Sampling

Location: BV-10

Notes:

Batch No: 57084

Sampled: 6/28/2017

8:42 AM

Type: Grab

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 83 | mg/L | EPA 300 | K Baros | 6/29/2017 17:34 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 292 | mg/L | SM 2320 B | | 7/5/2017 15:59 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/5/2017 15:59 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 292 | mg/L | SM 2320 B | | 7/5/2017 15:59 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.82 | mg/L | EPA 300 | K Baros | 6/29/2017 17:34 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.36 | SU | SM 4500-H+B | C Watts | 6/28/2017 16:45 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 593 | mg/L | SM2540C | C Watts | 7/3/2017 16:40 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/10/2017 14:13 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 78 | mg/L | EPA 300 | K Baros | 6/29/2017 17:34 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/24/2017 8:46 | | | | | <input checked="" type="checkbox"/> | ARS International |



Sample Report Information



| | | | |
|------------------------------|-------------------------|-----------------|---------------|
| Sample ID: S17179165A | Client ID: BV-19 | Sampler: | Client |
|------------------------------|-------------------------|-----------------|---------------|

Client: Coleta Creek Power - R Coleman
Study: Water
Project: CCR Sampling
Location: BV-19
Notes:

Batch No: 57084
Sampled: 6/28/2017 10:19 AM
Type: Grab
Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 131 | mg/L | EPA 300 | K Baros | 6/29/2017 15:40 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 334 | mg/L | SM 2320 B | | 7/5/2017 16:20 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/5/2017 16:20 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 334 | mg/L | SM 2320 B | | 7/5/2017 16:20 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.51 | mg/L | EPA 300 | K Baros | 6/29/2017 15:40 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 6.91 | SU | SM 4500-H+B | C Watts | 6/28/2017 16:45 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 843 | mg/L | SM2540C | C Watts | 7/7/2017 16:45 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/10/2017 14:27 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 57.9 | mg/L | EPA 300 | K Baros | 6/29/2017 15:40 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/24/2017 8:46 | | | | | | <input checked="" type="checkbox"/> ARS International |



Sample Report Information



| | | | | | |
|-------------------|-------------------|-------------------|-------------|-----------------|---------------|
| Sample ID: | S17179165B | Client ID: | MW-6 | Sampler: | Client |
|-------------------|-------------------|-------------------|-------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman
Study: Water
Project: CCR Sampling
Location: MW #6
Notes:

Batch No: 57084
Sampled: 6/28/2017 11:03 AM
Type: Grab
Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 69 | mg/L | EPA 300 | K Baros | 6/29/2017 16:18 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 183 | mg/L | SM 2320 B | | 7/5/2017 16:26 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/5/2017 16:26 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 183 | mg/L | SM 2320 B | | 7/5/2017 16:26 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.37 | mg/L | EPA 300 | K Baros | 6/29/2017 16:18 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.15 | SU | SM 4500-H+B | C Watts | 6/28/2017 16:45 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 570 | mg/L | SM2540C | C Watts | 7/7/2017 16:45 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/10/2017 14:29 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 99 | mg/L | EPA 300 | K Baros | 6/29/2017 16:18 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/24/2017 8:46 | | | | | | <input checked="" type="checkbox"/> ARS International |



Sample Report Information



| | | | | | |
|------------|------------|------------|------|----------|--------|
| Sample ID: | S17179165C | Client ID: | MW-7 | Sampler: | Client |
|------------|------------|------------|------|----------|--------|

Client: Coletto Creek Power - R Coleman
 Study: Water
 Project: CCR Sampling
 Location: MW #7
 Notes:

Batch No: 57084
 Sampled: 6/28/2017 2:09 PM
 Type: Grab
 Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 89 | mg/L | EPA 300 | K Baros | 6/29/2017 16:56 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 255 | mg/L | SM 2320 B | | 7/5/2017 16:35 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/5/2017 16:35 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 255 | mg/L | SM 2320 B | | 7/5/2017 16:35 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.61 | mg/L | EPA 300 | K Baros | 6/29/2017 16:56 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.08 | SU | SM 4500-H+B | C Watts | 6/28/2017 16:45 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 690 | mg/L | SM2540C | C Watts | 7/7/2017 16:45 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/10/2017 14:31 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 74 | mg/L | EPA 300 | K Baros | 6/29/2017 16:56 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 7/24/2017 8:46 | | | | | | <input checked="" type="checkbox"/> ARS International |









QA Summary Report

| Parameter | ID | Result | Ref Value | Amt Added | LOQ | Qualifer | Control | Flag | Comments |
|---|------------|-----------|-----------|-----------|------|----------|----------------|----------------|---|
| Method Blank | | | | | | | | | |
| - Chloride, IC 6/29/2017 14:23 | Q171921504 | <1mg/L | 0 | | | 1 | 1 | | Blank Acceptable. |
| Fluoride, IC 6/29/2017 14:23 | Q171921504 | <0.25mg/L | 0 | | 0.25 | | 0.25 | | Blank Acceptable. |
| Solids, Total Dissolved 7/3/2017 16:40 | Q171861013 | <25mg/L | 0 | | 10 | | 25 | | Blank Acceptable. |
| Solids, Total Dissolved 7/7/2017 16:45 | Q171921206 | <25mg/L | 0 | | 10 | | 25 | | Blank Acceptable. |
| Sulfate, IC 6/29/2017 14:23 | Q171921504 | <1mg/L | 0 | | | 1 | 1 | | Blank Acceptable. |
| Duplicate | | | | | | | | | |
| pH (Standard Units) 6/28/2017 16:45 | Q17180111A | 7.37SU | 7.36 | | | 2 | 0.1% | 20 | Duplicate RPD Acceptable. |
| Solids, Total Dissolved 7/7/2017 16:45 | Q171921211 | 3750mg/L | 3780 | | 10 | | 0.8% | 20 | Duplicate RPD Acceptable. |
| Solids, Total Dissolved 7/3/2017 16:40 | Q171861015 | 597mg/L | 593 | | 10 | | 0.7% | 20 | Duplicate RPD Acceptable. |
| Laboratory Control Standard | | | | | | | | | |
| - Chloride, IC 6/29/2017 15:01 | Q171921505 | 26.1mg/L | 25 | | | 1 | 104.4% 4.3% | 80 - 120 20 | Standard Recovery Acceptable. Standard RPD Acceptable. |
| Fluoride, IC 6/29/2017 15:01 | Q171921505 | 2.07mg/L | 2 | | 0.25 | | 103.5% 3.4% | 80 - 120 20 | Standard Recovery Acceptable. Standard RPD Acceptable. |
| pH (Standard Units) 6/28/2017 16:45 | Q171801113 | 7.03SU | 7 | | | 2 | 100.4% 0.4% | 80 - 120 20 | Standard Recovery Acceptable. Standard RPD Acceptable. |
| Sulfate, IC 6/29/2017 15:01 | Q171921505 | 26.2mg/L | 25 | | | 1 | 104.8% 4.7% | 80 - 120 20 | Standard Recovery Acceptable. Standard RPD Acceptable. |
| Matrix Spike | | | | | | | | | |
| - Chloride, IC 6/29/2017 18:12 | Q17192150A | 100.8mg/L | 100.2 | 25 | | 1 | 102.4% 0.6% | 80 - 120 20 | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Fluoride, IC 6/29/2017 18:12 | Q17192150A | 2.61mg/L | 2.74 | 2 | 0.25 | | 93.5% 4.9% | 80 - 120 20 | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Sulfate, IC 6/29/2017 18:12 | Q17192150A | 96.9mg/L | 95.1 | 25 | | 1 | 107.2% 1.9% | 70 - 130 20 | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Matrix Spike Dup | | | | | | | | | |
| - Chloride, IC 6/29/2017 18:50 | Q17192150B | 100.6mg/L | 100.2 | 25 | | 1 | 101.6% 0.4% | 80 - 120 20 | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Fluoride, IC 6/29/2017 18:50 | Q17192150B | 2.59mg/L | 2.74 | 2 | 0.25 | | 92.5% 5.6% | 80 - 120 20 | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Sulfate, IC 6/29/2017 18:50 | Q17192150B | 95.9mg/L | 95.1 | 25 | | 1 | 103.2% 0.8% | 70 - 130 20 | Spike Recovery Acceptable. Spike RPD Acceptable. |



Flag and Qualifier Legend

-  *Negative - Result Detected* *MDL = Method Detection Limit* *DF = Dilution Factor*
-  *Caution - Problem Detected* *LOQ = Limit of Quantitation* *j = Analyte detected between MDL and LOQ*
-  *Warning - Null Value* *S = surrogate standard out of limit* *H = sample out of hold time*
-  **MS, MSD, RPD- Failure may occur due to matrix interference, data released per QA plan**

Thursday, August 03, 2017

B Environmental - LDMS QA Report Summary

Note:

THANK YOU!



CLIENT: B-Environmental
Project: Coletto Creek Power
Lab Order: 1706358

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition and Standard Methods.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives except where noted in the following. For Metals Analysis, the recovery of Sodium for the Matrix Spike and Matrix Spike Duplicate (1706358-01 MS/MSD) was above the method control limits. This is flagged accordingly in the QC Summary Report. This analyte was within method control limits in the associated LCS. No further corrective action was taken.

For Metals Analysis, the RPD of Boron for the Serial Dilution (1706358-01 SD) was above the method control limit. This is flagged accordingly in the QC Summary Report. This analyte was within method control limits in the associated Post Digestion Spike. No further corrective action was taken.

For Mercury Analysis, the recoveries of the Matrix Spike and Matrix Spike Duplicate (1706358-01 MS/MSD) were below the method control limits. These are flagged accordingly in the QC Summary Report. The associated LCS was within method control limits. No further corrective action was taken.

For Mercury Analysis, the recovery of the Post Digestion Spike (1706358-01 PDS) was below the method control limits. This is flagged accordingly in the QC Summary Report. The associated Serial Dilution was within method control limits. No further corrective action was taken.

For Total/Dissolved Metals Analysis, the results of Dissolved Lithium/Molybdenum for all of the samples were slightly higher than the results of Total Lithium/Molybdenum. The results were within acceptable analytical variation limits. No further corrective action was taken.

DHL Analytical, Inc.

Date: 12-Jul-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR (57084)
Lab Order: 1706358

Client Sample ID: BV-10
Lab ID: 1706358-01
Alternate ID: S171791654
Collection Date: 06/28/17 08:42 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: RO | | | |
| Dissolved Lithium | 0.0117 | 0.00500 | 0.0100 | | mg/L | 1 | 07/12/17 01:05 PM |
| Dissolved Molybdenum | 0.00945 | 0.00200 | 0.00500 | | mg/L | 1 | 07/12/17 01:05 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 07/10/17 02:13 PM |
| Arsenic | 0.0129 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 02:13 PM |
| Barium | 0.0476 | 0.00300 | 0.0100 | | mg/L | 1 | 07/10/17 02:13 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 02:13 PM |
| Boron | 1.14 | 0.100 | 0.300 | | mg/L | 10 | 07/11/17 10:56 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 02:13 PM |
| Calcium | 44.0 | 1.00 | 3.00 | | mg/L | 10 | 07/11/17 10:56 AM |
| Chromium | 0.00415 | 0.00200 | 0.00500 | J | mg/L | 1 | 07/10/17 02:13 PM |
| Cobalt | 0.213 | 0.00300 | 0.00500 | | mg/L | 1 | 07/10/17 02:13 PM |
| Lead | 0.00562 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 02:13 PM |
| Lithium | 0.0111 | 0.00500 | 0.0100 | | mg/L | 1 | 07/10/17 02:13 PM |
| Magnesium | 7.03 | 0.100 | 0.300 | | mg/L | 1 | 07/10/17 02:13 PM |
| Molybdenum | 0.00797 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 02:13 PM |
| Potassium | 0.744 | 0.100 | 0.300 | | mg/L | 1 | 07/10/17 02:13 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 02:13 PM |
| Sodium | 165 | 1.00 | 3.00 | | mg/L | 10 | 07/11/17 10:56 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 07/10/17 02:13 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 07/07/17 11:05 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 292 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 07/05/17 03:59 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 07/05/17 03:59 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 07/05/17 03:59 PM |
| Alkalinity, Total (As CaCO3) | 292 | 20.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 07/05/17 03:59 PM |

Qualifiers:

| | | | |
|-----|---|----|---|
| * | Value exceeds TCLP Maximum Concentration Level | B | Analyte detected in the associated Method Blank |
| C | Sample Result or QC discussed in the Case Narrative | DF | Dilution Factor |
| E | TPH pattern not Gas or Diesel Range Pattern | J | Analyte detected between MDL and RL |
| MDL | Method Detection Limit | ND | Not Detected at the Method Detection Limit |
| RL | Reporting Limit | S | Spike Recovery outside control limits |

Page 1 of 4

DHL Analytical, Inc.

Date: 12-Jul-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (57084)
Lab Order: 1706358

Client Sample ID: BV-19
Lab ID: 1706358-02
Alternate ID: S17179165A
Collection Date: 06/28/17 10:19 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: RO | | | |
| Dissolved Lithium | 0.0156 | 0.00500 | 0.0100 | | mg/L | 1 | 07/12/17 01:08 PM |
| Dissolved Molybdenum | 0.00479 | 0.00200 | 0.00500 | J | mg/L | 1 | 07/12/17 01:08 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 07/10/17 02:27 PM |
| Arsenic | 0.00858 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 02:27 PM |
| Barium | 0.0999 | 0.00300 | 0.0100 | | mg/L | 1 | 07/10/17 02:27 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 02:27 PM |
| Boron | 0.830 | 0.100 | 0.300 | | mg/L | 10 | 07/11/17 11:10 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 02:27 PM |
| Calcium | 126 | 1.00 | 3.00 | | mg/L | 10 | 07/11/17 11:10 AM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 02:27 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 07/10/17 02:27 PM |
| Lead | 0.000746 | 0.000300 | 0.00100 | J | mg/L | 1 | 07/10/17 02:27 PM |
| Lithium | 0.0142 | 0.00500 | 0.0100 | | mg/L | 1 | 07/10/17 02:27 PM |
| Magnesium | 24.5 | 0.100 | 0.300 | | mg/L | 1 | 07/10/17 02:27 PM |
| Molybdenum | 0.00442 | 0.00200 | 0.00500 | J | mg/L | 1 | 07/10/17 02:27 PM |
| Potassium | 0.849 | 0.100 | 0.300 | | mg/L | 1 | 07/10/17 02:27 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 02:27 PM |
| Sodium | 88.5 | 1.00 | 3.00 | | mg/L | 10 | 07/11/17 11:10 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 07/10/17 02:27 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 07/07/17 11:21 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 334 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 07/05/17 04:20 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 07/05/17 04:20 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 07/05/17 04:20 PM |
| Alkalinity, Total (As CaCO3) | 334 | 20.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 07/05/17 04:20 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 12-Jul-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR (57084)
Lab Order: 1706358

Client Sample ID: MW-6
Lab ID: 1706358-03
Alternate ID: S17179165B
Collection Date: 06/28/17 11:03 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|------|----------------|----|---------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | | | | Analyst: RO |
| Dissolved Lithium | 0.00936 | 0.00500 | 0.0100 | J | mg/L | 1 | 07/12/17 01:10 PM |
| Dissolved Molybdenum | 0.00828 | 0.00200 | 0.00500 | | mg/L | 1 | 07/12/17 01:10 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | | | | Analyst: SP |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 07/10/17 02:29 PM |
| Arsenic | 0.00779 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 02:29 PM |
| Barium | 0.0842 | 0.00300 | 0.0100 | | mg/L | 1 | 07/10/17 02:29 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 02:29 PM |
| Boron | 1.74 | 0.100 | 0.300 | | mg/L | 10 | 07/11/17 11:12 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 02:29 PM |
| Calcium | 81.8 | 1.00 | 3.00 | | mg/L | 10 | 07/11/17 11:12 AM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 02:29 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 07/10/17 02:29 PM |
| Lead | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 02:29 PM |
| Lithium | 0.00903 | 0.00500 | 0.0100 | J | mg/L | 1 | 07/10/17 02:29 PM |
| Magnesium | 8.79 | 0.100 | 0.300 | | mg/L | 1 | 07/10/17 02:29 PM |
| Molybdenum | 0.00806 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 02:29 PM |
| Potassium | 0.870 | 0.100 | 0.300 | | mg/L | 1 | 07/10/17 02:29 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 02:29 PM |
| Sodium | 68.5 | 1.00 | 3.00 | | mg/L | 10 | 07/11/17 11:12 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 07/10/17 02:29 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | | | Analyst: AH |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 07/07/17 11:24 AM |
| ALKALINITY | | M2320 B | | | | | Analyst: BTJ |
| Alkalinity, Bicarbonate (As CaCO3) | 183 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/05/17 04:26 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/05/17 04:26 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/05/17 04:26 PM |
| Alkalinity, Total (As CaCO3) | 183 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/05/17 04:26 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern J Analyte detected between MDL and RL
 MDL Method Detection Limit ND Not Detected at the Method Detection Limit
 RL Reporting Limit S Spike Recovery outside control limits Page 3 of 4

DHL Analytical, Inc.

Date: 12-Jul-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR (57084)
Lab Order: 1706358

Client Sample ID: MW-7
Lab ID: 1706358-04
Alternate ID: S17179165C
Collection Date: 06/28/17 02:09 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|------------|----------------|----------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: RO | | | |
| Dissolved Lithium | 0.0116 | 0.00500 | 0.0100 | | mg/L | 1 | 07/12/17 01:12 PM |
| Dissolved Molybdenum | 0.00970 | 0.00200 | 0.00500 | | mg/L | 1 | 07/12/17 01:12 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.00800 | 0.00250 | | mg/L | 1 | 07/10/17 02:31 PM |
| Arsenic | 0.00967 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 02:31 PM |
| Barium | 0.0907 | 0.00300 | 0.0100 | | mg/L | 1 | 07/10/17 02:31 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 02:31 PM |
| Boron | 0.944 | 0.100 | 0.300 | | mg/L | 10 | 07/11/17 11:15 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 07/10/17 02:31 PM |
| Calcium | 75.1 | 1.00 | 3.00 | | mg/L | 10 | 07/11/17 11:15 AM |
| Chromium | 0.00279 | 0.00200 | 0.00500 | J | mg/L | 1 | 07/10/17 02:31 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 07/10/17 02:31 PM |
| Lead | 0.000502 | 0.000300 | 0.00100 | J | mg/L | 1 | 07/10/17 02:31 PM |
| Lithium | 0.00969 | 0.00500 | 0.0100 | J | mg/L | 1 | 07/10/17 02:31 PM |
| Magnesium | 9.65 | 0.100 | 0.300 | | mg/L | 1 | 07/10/17 02:31 PM |
| Molybdenum | 0.00929 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 02:31 PM |
| Potassium | 1.27 | 0.100 | 0.300 | | mg/L | 1 | 07/10/17 02:31 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 07/10/17 02:31 PM |
| Sodium | 108 | 1.00 | 3.00 | | mg/L | 10 | 07/11/17 11:15 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 07/10/17 02:31 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 07/07/17 11:26 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 255 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 07/05/17 04:35 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 07/05/17 04:35 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 07/05/17 04:35 PM |
| Alkalinity, Total (As CaCO3) | 255 | 20.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 07/05/17 04:35 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

CLIENT: B-Environmental
Work Order: 1706358
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_170707A

The QC data in batch 81301 applies to the following samples: 1706358-01A, 1706358-02A, 1706358-03A, 1706358-04A

| | | | |
|---------------------------|----------------------------------|--|----------------------------|
| Sample ID MB-81301 | Batch ID: 81301 | TestNo: SW7470A | Units: mg/L |
| SampType: MBLK | Run ID: CETAC2_HG_170707A | Analysis Date: 7/7/2017 10:38:44 AM | Prep Date: 7/6/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|------------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | <0.0000800 | 0.000200 | | | | | | | | |

| | | | |
|----------------------------|----------------------------------|--|----------------------------|
| Sample ID LCS-81301 | Batch ID: 81301 | TestNo: SW7470A | Units: mg/L |
| SampType: LCS | Run ID: CETAC2_HG_170707A | Analysis Date: 7/7/2017 10:41:00 AM | Prep Date: 7/6/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00204 | 0.000200 | 0.00200 | 0 | 102 | 85 | 115 | | | |

| | | | |
|-----------------------------|----------------------------------|--|----------------------------|
| Sample ID LCSD-81301 | Batch ID: 81301 | TestNo: SW7470A | Units: mg/L |
| SampType: LCSD | Run ID: CETAC2_HG_170707A | Analysis Date: 7/7/2017 10:43:16 AM | Prep Date: 7/6/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00209 | 0.000200 | 0.00200 | 0 | 104 | 85 | 115 | 2.42 | 15 | |

| | | | |
|---------------------------------|----------------------------------|--|----------------------------|
| Sample ID 1706358-01A SD | Batch ID: 81301 | TestNo: SW7470A | Units: mg/L |
| SampType: SD | Run ID: CETAC2_HG_170707A | Analysis Date: 7/7/2017 11:08:10 AM | Prep Date: 7/6/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|-----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | <0.000400 | 0.00100 | 0 | 0 | | | | 0 | 10 | |

| | | | |
|----------------------------------|----------------------------------|--|----------------------------|
| Sample ID 1706358-01A PDS | Batch ID: 81301 | TestNo: SW7470A | Units: mg/L |
| SampType: PDS | Run ID: CETAC2_HG_170707A | Analysis Date: 7/7/2017 11:10:27 AM | Prep Date: 7/6/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00133 | 0.000200 | 0.00250 | 0 | 53.2 | 85 | 115 | | | S |

| | | | |
|---------------------------------|----------------------------------|--|----------------------------|
| Sample ID 1706358-01A MS | Batch ID: 81301 | TestNo: SW7470A | Units: mg/L |
| SampType: MS | Run ID: CETAC2_HG_170707A | Analysis Date: 7/7/2017 11:12:43 AM | Prep Date: 7/6/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00104 | 0.000200 | 0.00200 | 0 | 52.0 | 80 | 120 | | | S |

| | | | |
|----------------------------------|----------------------------------|--|----------------------------|
| Sample ID 1706358-01A MSD | Batch ID: 81301 | TestNo: SW7470A | Units: mg/L |
| SampType: MSD | Run ID: CETAC2_HG_170707A | Analysis Date: 7/7/2017 11:14:59 AM | Prep Date: 7/6/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|---------|----------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0.00108 | 0.000200 | 0.00200 | 0 | 54.0 | 80 | 120 | 3.77 | 15 | S |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706358
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170710C

The QC data in batch 81264 applies to the following samples: 1706358-01A, 1706358-02A, 1706358-03A, 1706358-04A

| | | | | | | | |
|-----------|----------|-----------|-----------------|----------------|----------------------|------------|----------|
| Sample ID | MB-81264 | Batch ID: | 81264 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | MBLK | Run ID: | ICP-MS4_170710C | Analysis Date: | 7/10/2017 1:28:00 PM | Prep Date: | 7/5/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|-----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | <0.000800 | 0.00250 | | | | | | | | |
| Arsenic | <0.00200 | 0.00500 | | | | | | | | |
| Barium | <0.00300 | 0.0100 | | | | | | | | |
| Beryllium | <0.000300 | 0.00100 | | | | | | | | |
| Cadmium | <0.000300 | 0.00100 | | | | | | | | |
| Calcium | <0.100 | 0.300 | | | | | | | | |
| Chromium | <0.00200 | 0.00500 | | | | | | | | |
| Cobalt | <0.00300 | 0.00500 | | | | | | | | |
| Lead | <0.000300 | 0.00100 | | | | | | | | |
| Lithium | <0.00500 | 0.0100 | | | | | | | | |
| Magnesium | <0.100 | 0.300 | | | | | | | | |
| Molybdenum | <0.00200 | 0.00500 | | | | | | | | |
| Potassium | <0.100 | 0.300 | | | | | | | | |
| Selenium | <0.00200 | 0.00500 | | | | | | | | |
| Thallium | <0.000500 | 0.00150 | | | | | | | | |

| | | | | | | | |
|-----------|-----------|-----------|-----------------|----------------|----------------------|------------|----------|
| Sample ID | LCS-81264 | Batch ID: | 81264 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | LCS | Run ID: | ICP-MS4_170710C | Analysis Date: | 7/10/2017 1:30:00 PM | Prep Date: | 7/5/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.195 | 0.00250 | 0.200 | 0 | 97.3 | 80 | 120 | | | |
| Arsenic | 0.200 | 0.00500 | 0.200 | 0 | 100 | 80 | 120 | | | |
| Barium | 0.196 | 0.0100 | 0.200 | 0 | 98.1 | 80 | 120 | | | |
| Beryllium | 0.211 | 0.00100 | 0.200 | 0 | 105 | 80 | 120 | | | |
| Cadmium | 0.196 | 0.00100 | 0.200 | 0 | 98.1 | 80 | 120 | | | |
| Calcium | 5.16 | 0.300 | 5.00 | 0 | 103 | 80 | 120 | | | |
| Chromium | 0.205 | 0.00500 | 0.200 | 0 | 103 | 80 | 120 | | | |
| Cobalt | 0.206 | 0.00500 | 0.200 | 0 | 103 | 80 | 120 | | | |
| Lead | 0.198 | 0.00100 | 0.200 | 0 | 99.2 | 80 | 120 | | | |
| Lithium | 0.212 | 0.0100 | 0.200 | 0 | 106 | 80 | 120 | | | |
| Magnesium | 5.10 | 0.300 | 5.00 | 0 | 102 | 80 | 120 | | | |
| Molybdenum | 0.192 | 0.00500 | 0.200 | 0 | 96.2 | 80 | 120 | | | |
| Potassium | 5.13 | 0.300 | 5.00 | 0 | 103 | 80 | 120 | | | |
| Selenium | 0.202 | 0.00500 | 0.200 | 0 | 101 | 80 | 120 | | | |
| Thallium | 0.204 | 0.00150 | 0.200 | 0 | 102 | 80 | 120 | | | |

| | | | | | | | |
|-----------|------------|-----------|-----------------|----------------|----------------------|------------|----------|
| Sample ID | LCSD-81264 | Batch ID: | 81264 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | LCSD | Run ID: | ICP-MS4_170710C | Analysis Date: | 7/10/2017 1:32:00 PM | Prep Date: | 7/5/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|----|-----------|---------|------|----------|-----------|------|----------|------|
|---------|--------|----|-----------|---------|------|----------|-----------|------|----------|------|

- | | | |
|--------------------|---|---|
| Qualifiers: | B Analyte detected in the associated Method Blank | DF Dilution Factor |
| | J Analyte detected between MDL and RL | MDL Method Detection Limit |
| | ND Not Detected at the Method Detection Limit | R RPD outside accepted control limits |
| | RL Reporting Limit | S Spike Recovery outside control limits |
| | J Analyte detected between SDL and RL | N Parameter not NELAC certified |

CLIENT: B-Environmental
 Work Order: 1706358
 Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170710C

| | | | |
|------------------------------|--------------------------------|--|----------------------------|
| Sample ID: LCSD-81264 | Batch ID: 81264 | TestNo: SW6020A | Units: mg/L |
| SampType: LCSD | Run ID: ICP-MS4_170710C | Analysis Date: 7/10/2017 1:32:00 PM | Prep Date: 7/5/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | 0.196 | 0.00250 | 0.200 | 0 | 98.1 | 80 | 120 | 0.837 | 15 | |
| Arsenic | 0.200 | 0.00500 | 0.200 | 0 | 99.8 | 80 | 120 | 0.212 | 15 | |
| Barium | 0.199 | 0.0100 | 0.200 | 0 | 99.3 | 80 | 120 | 1.26 | 15 | |
| Beryllium | 0.210 | 0.00100 | 0.200 | 0 | 105 | 80 | 120 | 0.537 | 15 | |
| Cadmium | 0.198 | 0.00100 | 0.200 | 0 | 98.9 | 80 | 120 | 0.790 | 15 | |
| Calcium | 5.13 | 0.300 | 5.00 | 0 | 103 | 80 | 120 | 0.609 | 15 | |
| Chromium | 0.207 | 0.00500 | 0.200 | 0 | 103 | 80 | 120 | 0.660 | 15 | |
| Cobalt | 0.207 | 0.00500 | 0.200 | 0 | 103 | 80 | 120 | 0.333 | 15 | |
| Lead | 0.197 | 0.00100 | 0.200 | 0 | 98.6 | 80 | 120 | 0.615 | 15 | |
| Lithium | 0.210 | 0.0100 | 0.200 | 0 | 105 | 80 | 120 | 0.969 | 15 | |
| Magnesium | 5.06 | 0.300 | 5.00 | 0 | 101 | 80 | 120 | 0.907 | 15 | |
| Molybdenum | 0.195 | 0.00500 | 0.200 | 0 | 97.3 | 80 | 120 | 1.20 | 15 | |
| Potassium | 5.11 | 0.300 | 5.00 | 0 | 102 | 80 | 120 | 0.406 | 15 | |
| Selenium | 0.202 | 0.00500 | 0.200 | 0 | 101 | 80 | 120 | 0.195 | 15 | |
| Thallium | 0.202 | 0.00150 | 0.200 | 0 | 101 | 80 | 120 | 1.16 | 15 | |

| | | | |
|----------------------------------|--------------------------------|--|----------------------------|
| Sample ID: 1706358-01A SD | Batch ID: 81264 | TestNo: SW6020A | Units: mg/L |
| SampType: SD | Run ID: ICP-MS4_170710C | Analysis Date: 7/10/2017 2:15:00 PM | Prep Date: 7/5/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|----------|---------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | <0.00400 | 0.0125 | 0 | 0 | | | | 0 | 10 | |
| Arsenic | 0.0131 | 0.0250 | 0 | 0.0129 | | | | 1.30 | 10 | |
| Barium | 0.0481 | 0.0500 | 0 | 0.0476 | | | | 0.953 | 10 | |
| Beryllium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Cadmium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 10 | |
| Chromium | <0.0100 | 0.0250 | 0 | 0.00415 | | | | 0 | 10 | |
| Cobalt | 0.217 | 0.0250 | 0 | 0.213 | | | | 1.76 | 10 | |
| Lead | 0.00549 | 0.00500 | 0 | 0.00562 | | | | 2.43 | 10 | |
| Lithium | <0.0250 | 0.0500 | 0 | 0.0112 | | | | 0 | 10 | |
| Magnesium | 7.08 | 1.50 | 0 | 7.03 | | | | 0.676 | 10 | |
| Molybdenum | <0.0100 | 0.0250 | 0 | 0.00797 | | | | 0 | 10 | |
| Potassium | 0.738 | 1.50 | 0 | 0.744 | | | | 0.931 | 10 | |
| Selenium | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 10 | |
| Thallium | <0.00250 | 0.00750 | 0 | 0 | | | | 0 | 10 | |

| | | | |
|-----------------------------------|--------------------------------|--|----------------------------|
| Sample ID: 1706358-01A PDS | Batch ID: 81264 | TestNo: SW6020A | Units: mg/L |
| SampType: PDS | Run ID: ICP-MS4_170710C | Analysis Date: 7/10/2017 2:33:00 PM | Prep Date: 7/5/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.196 | 0.00250 | 0.200 | 0 | 98.2 | 80 | 120 | | | |
| Arsenic | 0.212 | 0.00500 | 0.200 | 0.0129 | 99.6 | 80 | 120 | | | |

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
 J Analyte detected between MDL and RL MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
 RL Reporting Limit S Spike Recovery outside control limits
 J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: B-Environmental
 Work Order: 1706358
 Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170710C

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|----------------------|------------|----------|
| Sample ID | 1706358-01A PDS | Batch ID: | 81264 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | PDS | Run ID: | ICP-MS4_170710C | Analysis Date: | 7/10/2017 2:33:00 PM | Prep Date: | 7/5/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Barium | 0.247 | 0.0100 | 0.200 | 0.0476 | 99.8 | 80 | 120 | | | |
| Beryllium | 0.191 | 0.00100 | 0.200 | 0 | 95.5 | 80 | 120 | | | |
| Cadmium | 0.191 | 0.00100 | 0.200 | 0 | 95.4 | 80 | 120 | | | |
| Chromium | 0.208 | 0.00500 | 0.200 | 0.00415 | 102 | 80 | 120 | | | |
| Cobalt | 0.414 | 0.00500 | 0.200 | 0.213 | 100 | 80 | 120 | | | |
| Lead | 0.203 | 0.00100 | 0.200 | 0.00562 | 98.5 | 80 | 120 | | | |
| Lithium | 0.200 | 0.0100 | 0.200 | 0.0111 | 94.3 | 80 | 120 | | | |
| Magnesium | 11.3 | 0.300 | 5.00 | 7.03 | 84.5 | 80 | 120 | | | |
| Molybdenum | 0.198 | 0.00500 | 0.200 | 0.00797 | 95.1 | 80 | 120 | | | |
| Potassium | 5.64 | 0.300 | 5.00 | 0.744 | 97.9 | 80 | 120 | | | |
| Selenium | 0.197 | 0.00500 | 0.200 | 0 | 98.7 | 80 | 120 | | | |
| Thallium | 0.201 | 0.00150 | 0.200 | 0 | 100 | 80 | 120 | | | |

| | | | | | | | |
|-----------|----------------|-----------|-----------------|----------------|----------------------|------------|----------|
| Sample ID | 1706358-01A MS | Batch ID: | 81264 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | MS | Run ID: | ICP-MS4_170710C | Analysis Date: | 7/10/2017 2:35:00 PM | Prep Date: | 7/5/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.192 | 0.00250 | 0.200 | 0 | 96.2 | 80 | 120 | | | |
| Arsenic | 0.213 | 0.00500 | 0.200 | 0.0129 | 100 | 80 | 120 | | | |
| Barium | 0.244 | 0.0100 | 0.200 | 0.0476 | 98.4 | 80 | 120 | | | |
| Beryllium | 0.188 | 0.00100 | 0.200 | 0 | 93.8 | 80 | 120 | | | |
| Cadmium | 0.187 | 0.00100 | 0.200 | 0 | 93.5 | 80 | 120 | | | |
| Calcium | 48.5 | 0.300 | 5.00 | 43.8 | 93.8 | 80 | 120 | | | |
| Chromium | 0.202 | 0.00500 | 0.200 | 0.00415 | 98.8 | 80 | 120 | | | |
| Cobalt | 0.422 | 0.00500 | 0.200 | 0.213 | 105 | 80 | 120 | | | |
| Lead | 0.201 | 0.00100 | 0.200 | 0.00562 | 97.8 | 80 | 120 | | | |
| Lithium | 0.200 | 0.0100 | 0.200 | 0.0111 | 94.5 | 80 | 120 | | | |
| Magnesium | 11.9 | 0.300 | 5.00 | 7.03 | 96.9 | 80 | 120 | | | |
| Molybdenum | 0.198 | 0.00500 | 0.200 | 0.00797 | 95.0 | 80 | 120 | | | |
| Potassium | 5.82 | 0.300 | 5.00 | 0.744 | 101 | 80 | 120 | | | |
| Selenium | 0.199 | 0.00500 | 0.200 | 0 | 99.7 | 80 | 120 | | | |
| Thallium | 0.199 | 0.00150 | 0.200 | 0 | 99.6 | 80 | 120 | | | |

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|----------------------|------------|----------|
| Sample ID | 1706358-01A MSD | Batch ID: | 81264 | TestNo: | SW6020A | Units: | mg/L |
| SampType: | MSD | Run ID: | ICP-MS4_170710C | Analysis Date: | 7/10/2017 2:36:00 PM | Prep Date: | 7/5/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|-----------|--------|---------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | 0.194 | 0.00250 | 0.200 | 0 | 96.9 | 80 | 120 | 0.760 | 15 | |
| Arsenic | 0.213 | 0.00500 | 0.200 | 0.0129 | 99.8 | 80 | 120 | 0.184 | 15 | |
| Barium | 0.246 | 0.0100 | 0.200 | 0.0476 | 99.1 | 80 | 120 | 0.616 | 15 | |
| Beryllium | 0.190 | 0.00100 | 0.200 | 0 | 95.0 | 80 | 120 | 1.23 | 15 | |

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
 J Analyte detected between MDL and RL MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
 RL Reporting Limit S Spike Recovery outside control limits
 J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706358
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170710C

| | | | |
|-----------------------------------|--------------------------------|--|----------------------------|
| Sample ID: 1706358-01A MSD | Batch ID: 81264 | TestNo: SW6020A | Units: mg/L |
| SampType: MSD | Run ID: ICP-MS4_170710C | Analysis Date: 7/10/2017 2:36:00 PM | Prep Date: 7/5/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|-------|----------|------|
| Cadmium | 0.187 | 0.00100 | 0.200 | 0 | 93.4 | 80 | 120 | 0.142 | 15 | |
| Calcium | 49.1 | 0.300 | 5.00 | 43.8 | 107 | 80 | 120 | 1.32 | 15 | |
| Chromium | 0.203 | 0.00500 | 0.200 | 0.00415 | 99.3 | 80 | 120 | 0.514 | 15 | |
| Cobalt | 0.426 | 0.00500 | 0.200 | 0.213 | 107 | 80 | 120 | 0.953 | 15 | |
| Lead | 0.203 | 0.00100 | 0.200 | 0.00562 | 98.8 | 80 | 120 | 0.972 | 15 | |
| Lithium | 0.201 | 0.0100 | 0.200 | 0.0111 | 95.1 | 80 | 120 | 0.596 | 15 | |
| Magnesium | 12.0 | 0.300 | 5.00 | 7.03 | 99.4 | 80 | 120 | 1.06 | 15 | |
| Molybdenum | 0.200 | 0.00500 | 0.200 | 0.00797 | 96.1 | 80 | 120 | 1.07 | 15 | |
| Potassium | 5.85 | 0.300 | 5.00 | 0.744 | 102 | 80 | 120 | 0.597 | 15 | |
| Selenium | 0.201 | 0.00500 | 0.200 | 0 | 100 | 80 | 120 | 0.584 | 15 | |
| Thallium | 0.202 | 0.00150 | 0.200 | 0 | 101 | 80 | 120 | 1.52 | 15 | |

| | |
|--|---|
| Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified |
|--|---|

CLIENT: B-Environmental
 Work Order: 1706358
 Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170711A

The QC data in batch 81264 applies to the following samples: 1706358-01A, 1706358-02A, 1706358-03A, 1706358-04A

| | | | |
|---------------------------|--------------------------------|---|--|
| Sample ID MB-81264 | Batch ID: 81264 | TestNo: SW6020A | Units: mg/L |
| SampType: MBLK | Run ID: ICP-MS4_170711A | Analysis Date: 7/11/2017 10:48:00 AM | Prep Date: 7/5/2017 |
| Analyte | Result | RL | SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Boron | <0.0100 | 0.0300 | |
| Sodium | <0.100 | 0.300 | |

| | | | |
|----------------------------|--------------------------------|---|--|
| Sample ID LCS-81264 | Batch ID: 81264 | TestNo: SW6020A | Units: mg/L |
| SampType: LCS | Run ID: ICP-MS4_170711A | Analysis Date: 7/11/2017 10:50:00 AM | Prep Date: 7/5/2017 |
| Analyte | Result | RL | SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Boron | 0.207 | 0.0300 | 0.200 0 103 80 120 |
| Sodium | 5.18 | 0.300 | 5.00 0 104 80 120 |

| | | | |
|-----------------------------|--------------------------------|---|--|
| Sample ID LCSD-81264 | Batch ID: 81264 | TestNo: SW6020A | Units: mg/L |
| SampType: LCSD | Run ID: ICP-MS4_170711A | Analysis Date: 7/11/2017 10:52:00 AM | Prep Date: 7/5/2017 |
| Analyte | Result | RL | SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Boron | 0.206 | 0.0300 | 0.200 0 103 80 120 0.318 15 |
| Sodium | 5.11 | 0.300 | 5.00 0 102 80 120 1.39 15 |

| | | | |
|---------------------------------|--------------------------------|---|--|
| Sample ID 1706358-01A SD | Batch ID: 81264 | TestNo: SW6020A | Units: mg/L |
| SampType: SD | Run ID: ICP-MS4_170711A | Analysis Date: 7/11/2017 10:58:00 AM | Prep Date: 7/5/2017 |
| Analyte | Result | RL | SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Boron | 1.32 | 1.50 | 0 1.14 14.0 10 R |
| Calcium | 44.6 | 15.0 | 0 44.0 1.39 10 |
| Sodium | 169 | 15.0 | 0 165 2.34 10 |

| | | | |
|----------------------------------|--------------------------------|---|--|
| Sample ID 1706358-01A PDS | Batch ID: 81264 | TestNo: SW6020A | Units: mg/L |
| SampType: PDS | Run ID: ICP-MS4_170711A | Analysis Date: 7/11/2017 11:17:00 AM | Prep Date: 7/5/2017 |
| Analyte | Result | RL | SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Boron | 3.11 | 0.300 | 2.00 1.14 98.4 80 120 |
| Calcium | 93.6 | 3.00 | 50.0 44.0 99.3 80 120 |
| Sodium | 218 | 3.00 | 50.0 165 106 80 120 |

| | | | |
|---------------------------------|--------------------------------|---|--|
| Sample ID 1706358-01A MS | Batch ID: 81264 | TestNo: SW6020A | Units: mg/L |
| SampType: MS | Run ID: ICP-MS4_170711A | Analysis Date: 7/11/2017 11:18:00 AM | Prep Date: 7/5/2017 |
| Analyte | Result | RL | SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Boron | 1.38 | 0.300 | 0.200 1.14 120 80 120 |
| Sodium | 172 | 3.00 | 5.00 165 139 80 120 S |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1706358
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170711A

| Sample ID | 1706358-01A MSD | Batch ID: | 81264 | TestNo: | SW6020A | Units: | mg/L | | | |
|-----------|-----------------|-----------|-----------------|----------------|-----------------------|------------|-----------|-------|----------|------|
| SampType: | MSD | Run ID: | ICP-MS4_170711A | Analysis Date: | 7/11/2017 11:21:00 AM | Prep Date: | 7/5/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 1.34 | 0.300 | 0.200 | 1.14 | 97.3 | 80 | 120 | 3.36 | 15 | |
| Sodium | 172 | 3.00 | 5.00 | 165 | 143 | 80 | 120 | 0.092 | 15 | S |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL

DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
 Work Order: 1706358
 Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170712A

The QC data in batch 81349 applies to the following samples: 1706358-01B, 1706358-02B, 1706358-03B, 1706358-04B

| | | | | | | | | | | |
|---------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID MB-81349 | Batch ID: 81349 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: MBLK | Run ID: ICP-MS5_170712A | Analysis Date: 7/12/2017 12:58:00 PM | Prep Date: 7/11/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | <0.00500 | 0.0100 | | | | | | | | |
| Molybdenum | <0.00200 | 0.00500 | | | | | | | | |

| | | | | | | | | | | |
|----------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID LCS-81349 | Batch ID: 81349 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: LCS | Run ID: ICP-MS5_170712A | Analysis Date: 7/12/2017 12:59:00 PM | Prep Date: 7/11/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.219 | 0.0100 | 0.200 | 0 | 109 | 80 | 120 | | | |
| Molybdenum | 0.200 | 0.00500 | 0.200 | 0 | 100 | 80 | 120 | | | |

| | | | | | | | | | | |
|-----------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|-------|----------|------|
| Sample ID LCSD-81349 | Batch ID: 81349 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: LCSD | Run ID: ICP-MS5_170712A | Analysis Date: 7/12/2017 1:01:00 PM | Prep Date: 7/11/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.219 | 0.0100 | 0.200 | 0 | 109 | 80 | 120 | 0.037 | 15 | |
| Molybdenum | 0.196 | 0.00500 | 0.200 | 0 | 98.0 | 80 | 120 | 2.00 | 15 | |

| | | | | | | | | | | |
|---------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1706358-01B SD | Batch ID: 81349 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: SD | Run ID: ICP-MS5_170712A | Analysis Date: 7/12/2017 1:06:00 PM | Prep Date: 7/11/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | <0.0250 | 0.0500 | 0 | 0.0117 | | | | 0 | 10 | |
| Molybdenum | 0.00858 | 0.0250 | 0 | 0.00945 | | | | 9.66 | 10 | |

| | | | | | | | | | | |
|----------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1706358-01B PDS | Batch ID: 81349 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: PDS | Run ID: ICP-MS5_170712A | Analysis Date: 7/12/2017 1:14:00 PM | Prep Date: 7/11/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.222 | 0.0100 | 0.200 | 0.0117 | 105 | 80 | 120 | | | |
| Molybdenum | 0.204 | 0.00500 | 0.200 | 0.00945 | 97.5 | 80 | 120 | | | |

| | | | | | | | | | | |
|---------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1706358-01B MS | Batch ID: 81349 | TestNo: SW6020A | Units: mg/L | | | | | | | |
| SampType: MS | Run ID: ICP-MS5_170712A | Analysis Date: 7/12/2017 1:15:00 PM | Prep Date: 7/11/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Dissolved Lithium | 0.221 | 0.0100 | 0.200 | 0.0117 | 105 | 80 | 120 | | | |
| Dissolved Molybdenum | 0.207 | 0.00500 | 0.200 | 0.00945 | 98.6 | 80 | 120 | | | |

| | |
|--|---|
| Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified |
|--|---|

CLIENT: B-Environmental
Work Order: 1706358
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170712A

| Sample ID 1706358-01B MSD | Batch ID: 81349 | TestNo: SW6020A | Units: mg/L | | | | | | | |
|----------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|-------|----------|------|
| SampType: MSD | Run ID: ICP-MS5_170712A | Analysis Date: 7/12/2017 1:17:00 PM | Prep Date: 7/11/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Dissolved Lithium | 0.223 | 0.0100 | 0.200 | 0.0117 | 106 | 80 | 120 | 0.791 | 15 | |
| Dissolved Molybdenum | 0.211 | 0.00500 | 0.200 | 0.00945 | 101 | 80 | 120 | 2.10 | 15 | |

| | | |
|--------------------|--|---|
| Qualifiers: | B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified |
|--------------------|--|---|

CLIENT: B-Environmental
 Work Order: 1706358
 Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_170705B

The QC data in batch 81266 applies to the following samples: 1706358-01C, 1706358-02C, 1706358-03C, 1706358-04C

| | | | |
|----------------------------|---------------------------------|--|------------------------------|
| Sample ID: MB-81266 | Batch ID: 81266 | TestNo: M2320 B | Units: mg/L @ pH 4.15 |
| SampType: MBLK | Run ID: TITRATOR_170705B | Analysis Date: 7/5/2017 11:42:00 AM | Prep Date: 7/5/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | | | | | | | | |
| Alkalinity, Total (As CaCO3) | <20.0 | 20.0 | | | | | | | | |

| | | | |
|-----------------------------|---------------------------------|--|------------------------------|
| Sample ID: LCS-81266 | Batch ID: 81266 | TestNo: M2320 B | Units: mg/L @ pH 4.05 |
| SampType: LCS | Run ID: TITRATOR_170705B | Analysis Date: 7/5/2017 11:46:00 AM | Prep Date: 7/5/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Total (As CaCO3) | 51.8 | 20.0 | 50.00 | 0 | 104 | 74 | 129 | | | |

| | | | |
|-----------------------------------|---------------------------------|--|------------------------------|
| Sample ID: 1706328-01D-DUP | Batch ID: 81266 | TestNo: M2320 B | Units: mg/L @ pH 4.53 |
| SampType: DUP | Run ID: TITRATOR_170705B | Analysis Date: 7/5/2017 12:22:00 PM | Prep Date: 7/5/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | 389 | 20.0 | 0 | 391.6 | | | | 0.683 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | 389 | 20.0 | 0 | 391.6 | | | | 0.683 | 20 | |

| | | | |
|-----------------------------------|---------------------------------|---|------------------------------|
| Sample ID: 1706358-01C-DUP | Batch ID: 81266 | TestNo: M2320 B | Units: mg/L @ pH 4.51 |
| SampType: DUP | Run ID: TITRATOR_170705B | Analysis Date: 7/5/2017 4:08:00 PM | Prep Date: 7/5/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | 286 | 20.0 | 0 | 291.8 | | | | 2.01 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | 286 | 20.0 | 0 | 291.8 | | | | 2.01 | 20 | |

| | |
|--|---|
| Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified |
|--|---|



ARS International, LLC

Laboratory Analysis Report

ARS1-17-01931

Prepared for:

B-Environmental

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Fax: 361-572-4115**

A handwritten signature in black ink, appearing to read 'Michael C. ...', written over a horizontal line.

Project Manager Review

A handwritten signature in black ink, appearing to read 'R. ...', written over a horizontal line.

Management Review

Notes: ARS International, LLC assumes no liability for the use or the interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

Contact Person: Questions regarding this analytical report should be addressed to:

**Project Manager
ProjectManagers@amrad.com**

**Phone: 225.381.2991
Fax: 225.381.2996**



LELAP Cert# 01949



2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01931

Client Sample ID: S171791654 (Batch 57084)

Sample Collection Date: 06/28/17

Sample Matrix: Aqueous

Percent Solids: N/A

Request or PO Number: N/A

ARS Sample ID: ARS1-17-01931-001

Date Received: 07/03/17

Report Date: 08/01/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.125 | 0.131 | 0.206 | 0.085 | NP | U,Q | pCi/L | ARS-010/EPA 903.0/904.0 | 07/24/17 8:46 | CTRAMEL | 106% |
| Ra-228 | 0.710 | 0.745 | 1.220 | 0.568 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/17/17 12:39 | CTRAMEL | 114% |

Project Manager Review

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LELAP Certificate# 01949



2608 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01931

Client Sample ID: S17179165A (Batch 57084)

Sample Collection Date: 06/28/17

Sample Matrix: Aqueous

Percent Solids: N/A

Request or PO Number: N/A

ARS Sample ID: ARS1-17-01931-002

Date Received: 07/03/17

Report Date: 08/01/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.521 | 0.207 | 0.187 | 0.074 | NP | Q | pCi/L | ARS-010/EPA 903.0/904.0 | 07/24/17 8:46 | CTRAMEL | 101% |
| Ra-228 | 0.593 | 0.707 | 1.173 | 0.545 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/17/17 12:39 | CTRAMEL | 96% |

Project Manager Review

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1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01931

Client Sample ID: S17179165B (Batch 57084)

Sample Collection Date: 06/28/17

Sample Matrix: Aqueous

Percent Solids: N/A

Request or PO Number: N/A

ARS Sample ID: ARS1-17-01931-003

Date Received: 07/03/17

Report Date: 08/01/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | NDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.350 | 0.161 | 0.152 | 0.058 | NP | Q | pCi/L | ARS-010/EPA 903.0/904.0 | 07/24/17 8:46 | CTRAMEL | 100% |
| Ra-228 | 1.380 | 0.752 | 1.089 | 0.504 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 07/17/17 12:39 | CTRAMEL | 95% |

Project Manager Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

LELAP Certificate# 01949



2609 North River Road, Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01931

Request or PO Number: N/A

Client Sample ID: S17179165C (Batch 57084)

ARS Sample ID: ARS1-17-01931-004

Sample Collection Date: 06/28/17

Date Received: 07/03/17

Sample Matrix: Aqueous

Report Date: 08/01/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.137 | 0.113 | 0.159 | 0.061 | NP | U,Q | pCi/L | ARS-010/EPA 903.0/904.0 | 07/24/17 8:46 | CTRAMEL | 97% |
| Ra-228 | 0.084 | 0.668 | 1.230 | 0.571 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/17/17 12:39 | CTRAMEL | 93% |

Project Manager Review

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LELAP Certificate# 01949



INTERNATIONAL QC Results Report

Sample Delivery Group: ARS1-17-01931

Laboratory Control Sample Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | LCS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|----------------------|
| ARS1-B17-01419 | LCS | RA-226 | 29.330 | 4.720 | 0.102 | 27.528 | N/A | pCi/L | ARS-010/EPA 903 | 7/24/17 10:46 | CT | 107 | 75%-125% |
| ARS1-B17-01419 | LCS | RA-228 | 35.419 | 5.916 | 1.083 | 39.784 | N/A | pCi/L | ARS-010/EPA 904 | 7/17/17 14:38 | CT | 89 | 75%-125% |

Blank Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|
| ARS1-B17-01419 | MBL | RA-226 | 0.111 | 0.075 | 0.099 | NA | | pCi/L | ARS-010/EPA 903 | 7/24/17 10:46 | CT |
| ARS1-B17-01419 | MBL | RA-228 | 0.145 | 0.345 | 0.597 | NA | U | pCi/L | ARS-010/EPA 904 | 7/17/17 14:38 | CT |

RER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | RER | RER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01419 | LCSD | RA-226 | 29.330 | 4.720 | 19.481 | 3.168 | N/A | pCi/L | ARS-010/EPA 903 | 7/24/17 10:46 | CT | 1.25 | < 1 |
| ARS1-B17-01419 | LCSD | RA-228 | 35.419 | 5.916 | 31.804 | 5.332 | N/A | pCi/L | ARS-010/EPA 904 | 7/17/17 14:38 | CT | 0.32 | < 1 |

DER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | DER | DER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01419 | LCSD | RA-226 | 29.330 | 4.720 | 19.481 | 3.168 | N/A | pCi/L | ARS-010/EPA 903 | 7/24/17 10:46 | CT | 1.73 | < 3 |
| ARS1-B17-01419 | LCSD | RA-228 | 35.419 | 5.916 | 31.804 | 5.332 | N/A | pCi/L | ARS-010/EPA 904 | 7/17/17 14:38 | CT | 0.45 | < 3 |

Matrix Spike

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | MS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|---------------------|
| ARS1-B17-01419 | MS | RA-226 | 49.264 | 7.948 | 0.148 | 55.525 | N/A | pCi/L | ARS-010/EPA 903 | 7/24/17 10:46 | CT | 89 | 60%-140% |
| ARS1-B17-01419 | MS | RA-228 | 46.444 | 7.735 | 1.387 | 49.175 | N/A | pCi/L | ARS-010/EPA 904 | 7/17/17 14:38 | CT | 94 | 60%-140% |
| ARS1-B17-01419 | MSD | RA-226 | 54.867 | 8.829 | 0.206 | 55.525 | N/A | pCi/L | ARS-010/EPA 903 | 7/24/17 10:46 | CT | 99 | 60%-140% |
| ARS1-B17-01419 | MSD | RA-228 | 46.397 | 7.781 | 1.621 | 51.774 | N/A | pCi/L | ARS-010/EPA 904 | 7/17/17 14:38 | CT | 90 | 60%-140% |

Project Manager Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

LELAP Certificate# 01949

NELAP Certificate # E87558

Notes (Case Narrative):

Comments:

- 1.0) All MDA/MDC values are calculated on a sample specific basis.
- 2.0) Soil and Sludge analysis are reported on a wet basis or an as received basis unless otherwise indicated.
- 3.0) Data in this report are within the limits of uncertainty specified in the reference method unless otherwise specified.
- 4.0) Modified analysis procedures are procedures that are modified to meet the certain specifications. An example may be the use of a water method to analyze a solid matrix due to the lack of an officially recognized procedure for the analysis of the solid matrix. Modified analyses are indicated by the subsequent addition of "m" to the procedure number (i.e. 900.0M).
- 5.0) Total activity is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring radioactive decay chains and other prominent radioactive nuclides. Total activity may be lower than the actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not representative of nuclides that emit solely alpha or beta particles.
- 6.0) Ra-228 is determined via secular equilibrium with its daughter, Actinium 228 (Gamma Spectroscopy only).
- 7.0) U-238 is determined via secular equilibrium with its daughter, Thorium 234 (Gamma Spectroscopy only).
- 8.0) All gamma spectroscopy was performed utilizing high purity germanium detectors (HPGe).
- 9.0) ARS makes every attempt to match sample density to calibrated density; however, in some cases, it is not practical or possible to do so and data results may be affected (Gamma Spectroscopy only).
- 10.0) Gamma spectroscopy results are calculated values based on the ORTEC® GammaVision ENV32 Analysis Engine.
- 11.0) ACLASS DOD and ISO 17025 certification applies only to the following analytes and methods: Gross Alpha and Gross Beta (EPA 900, SM7110B&C, SW846 9310); Radium 226 (EPA 903, EPA 903.1, SM 7500 Ra-B, SW846 9315); Radium 228 (EPA 904, SM 7500 Ra-B SW846 9320); Iodine-131(EPA 901.1); Uranium by ICPMS (EPA 200.8); Strontium 89/90 (EPA 905, Eichrom SRW01, HASL 300 Sr-03-RC); Tritium (EPA 906, EPA 906M); Gamma Emitters (EPA 901.1, SM7120B, HASL 300 Ga-01-R); Americium-241, Curium 242/244, Plutonium 239/240 and 241, Thorium 228/230/232, Uranium 234/233 and 238 (Eichrom ACW03 VBS); Lead 210 (HASL 300 Pb-01-RC, Eichrom OTW01); Polonium 210 (HASL 300 Po-01-RC, HASL 300 Po-02-RC); Technetium-99 (Eichrom TCW02, Eichrom TCS01M).

Method References:

- 1.0) EPA 600/4-90-032; Prescribed Procedures for the Measurements of Radioactivity in Drinking Water, August 1980.
- 2.0) Standard Methods for the Examination of Water and Wastewater (On-Line Edition)
- 3.0) EPA SW-846; Test Methods for Evaluating Solid Waste, (On-Line edition)
- 4.0) EPA 600/4/79-020; Methods for Chemical Analysis of Water and Waste, March 1983.
- 5.0) HASL 300; The Procedures Manual of the Environmental Measurements Laboratory, Volume I, 28th Edition February, 1997.

Definitions:

| | |
|----------|---|
| CRDL | Contract Required Detection Limit |
| CSU | Combined Standard Uncertainty |
| DLC | Decision Level Concentration (ANSI N42.23) or critical level |
| DO | Duplicate Original |
| DUP | Method Duplicate |
| LCS/LCSD | Laboratory Control Sample/Laboratory Control Sample Duplicate |
| MDA | Minimum Detectable Activity |
| MDC | (Minimum Detectable Concentration) minimum concentration of the analyte that ARS can detect utilizing the specific analysis |
| MBL | Method Blank |
| MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| N/A | Not Applicable |
| NP | Not Provided |
| NR | Not Referenced |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |

Data Qualifiers:

| | |
|----|--|
| B | The analyte is found in both the associated method blank and the sample. This flag indicates probable blank contamination. |
| D | Sample analysis accomplished through dilution. |
| J | The reported result is an estimated value above the limit of detection but outside of quantitation range (e.g., matrix interference was observed). |
| Q | One or more quality control criteria failed (e.g., LCS recovery, surrogate spike recovery, or CCV recovery). |
| U | Activity is below the MDC, MDA, MDL, or LOD |
| N | The analyte is a tentatively identified compound using mass spectrometry or any non-customer requested compounds that are tentatively identified. |
| * | LCS/LCSD or MS/MSD fails RPD criteria. |
| S | Spike |
| SC | Subcontracted out to another qualified laboratory |
| H | Holding time exceeded |

B Environmental Laboratory, LLC

1606 E Brazos Suite D Victoria, Texas 77901 Ph (361) 572-8224

Chain Of Custody Record

Batch # B57084 TEMP UN-C: 8.7 Page of

Customer / Report Information Billing Information Check box if Billing is the same as Report Information

Name: Coletto Creek Power Address: PO # Phone: 361-788-5145 FAX: THERM ID# 3 TEMP CORR: 8.5

Attention: Rick Coleman Attention: Project: CCR Sampling Completed By Laboratory

Address: P. O. Box 8; Fannin, TX 77960 Comments: Requested Analysis

| Sample Information | Collected | | Matrix | Container | Preservative | Analytes | | | | | Custody Seals Present | | |
|--------------------|-----------|------|--------|----------------------|--|---|------------|----|-----|---------------|-----------------------|------------------------|--------------|
| | Date | Time | | | | Metals* | Cl, F, SO4 | pH | TDS | Ra226 & Ra228 | | Alk: Tot, Carb, BiCarb | Diss Li & Mo |
| BV-10 | 6-28-17 | 842 | WW | 1L 500ml 250ml | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | S171791654 |
| BV-19 | 10/19 | | WW | 1L 500ml 250ml | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | S17179165A |
| mw-6 | 11/03 | | WW | 1L 500ml 250ml | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | S17179165B |
| mw-7 | 1/409 | | WW | 1L 500ml 250ml | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | S17179165C |
| BV-10-MS | 6-28-17 | 842 | WW | 1L 500ml 250ml | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | |
| BV-10-MSD | 6-28-17 | 842 | WW | 1L 500ml 250ml | <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | |

Required Turnaround: Routine (6-30 Business days) Expedite / Rush: 1 Business Day 2 Business Days 3 Business days 5 Business days Other

Surcharge will apply to RUSH TAT. Authorized BY: Container Type: P=Plastic, G=Glass, V=Voa, O=Other Carrier ID:

Relinquished By: [Signature] Date: 6-28-17 Time: 1620 Received By: [Signature] Date: 6-28-17 Time: 16:20

Relinquished By: Date: Time: Received By: Date: Time:

BatchNo: 57535

SAMPLE REPORT



T104704328-17-14

Business

Coletto Creek Power - R Coleman
PO Box 8
Fannin TX 77960
Att: Rick Coleman



Laboratory

B Environmental, LLC.
1606 E Brazos, Suite D
Victoria TX 77901
ph. 361-572-8224

Reference Information

Project: CCR Sampling
Printed: Thursday,
August 17, 2017

Re: Coletto Creek Power - R Coleman

Dear: Rick Coleman

Attached are the results for sample(s) received on 7/10/2017

The analytical results relate only to the samples tested.
All supporting quality data meets the requirements of NELAC unless noted in the case narrative section of the report.

This report contains 39 pages (including the cover page)

If you have any questions concerning this report, please do not hesitate to call (361) 572-8224 or Fax us at (361) 572-4115

Respectfully Submitted,

Kevin Baros
Laboratory Director



B Environmental, LLC. 1606 E Brazos, Suite D Victoria TX 77901

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B Environmental, LLC.
1606 E Brazos, Suite D

BatchNo: 57535

Victoria TX 77901

Batch No: 57535

Sample Receipt Checklist

Date Received: 8/17/2017

Project: CCR Sampling Received By: Vahrenkamp

Login completed by: Vahrenkamp 8/17/2017
Signature LoginDate:

Carrier Name Walk In

- Shipping container/cooler in good condition? YES NO Not Present
- Custody seals intact on shipping container/cooler? YES NO Not Present
- Custody seals intact on sample bottles? YES NO Not Present
- Chain of Custody present? YES NO
- Chain of Custody signed when relinquished and received YES NO
- Chain of Custody agrees with sample labels? YES NO
- Samples in proper container/bottles? YES NO
- Sample containers intact? YES NO
- Sufficient sample volume for indicated tests? YES NO
- All samples received within holding times? YES NO
- Container/Temp Blank - temperature in compliance? YES NO >0 <6 °C On Ice
- Water - VOA vials have zero headspace? Bubble < 6mm? YES NO No VOA Vials submitted
- Water - pH acceptable upon receipt? YES NO Not Applicable

*TEMP 11.1/10.9 pH Adjusted? No Checked By L. Vahrenkamp

Any No and/or N/A (not applicable) response must be detailed in the comments section below.

Client contacted PersonContacted
Contacted by: Date Contacted:

Regarding

Comments
Therm #3. HNO3 Lot # 2-42-12. pH Paper Lot # 2-25-6. The samples were received the same day they were collected and were in the process of cooling.

Corrective Action



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B Environmental, LLC.

BatchNo:

57535

1606 E Brazos, Suite D

Victoria TX 77901

Sample Report Information



| | | | | | |
|-------------------|-------------------|-------------------|--------------|-----------------|---------------|
| Sample ID: | S171911556 | Client ID: | Blank | Sampler: | Client |
|-------------------|-------------------|-------------------|--------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman

Batch No: 57535

Study: Water

Sampled: 7/10/2017

2:00 PM

Project: CCR Sampling

Location: Blank

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | < 1 | mg/L | EPA 300 | K Baros | 7/12/2017 5:52 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | < 20 | mg/L | SM 2320 B | | 7/13/2017 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/13/2017 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | < 20 | mg/L | SM 2320 B | | 7/13/2017 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | < 0.25 | mg/L | EPA 300 | K Baros | 7/12/2017 5:52 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 5.62 | SU | SM 4500-H+B | P Ryan | 7/10/2017 16:05 | | | | | <input type="checkbox"/> | |
| Solids, Total Dissolved | < 25 | mg/L | SM2540C | C Watts | 7/13/2017 14:00 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/14/2017 14:31 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | < 1 | mg/L | EPA 300 | K Baros | 7/12/2017 5:52 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 8/7/2017 8:05 | | | | | <input checked="" type="checkbox"/> | ARS International |



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Victoria TX 77901

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 Victoria TX 77901

BatchNo: 57535

Sample Report Information



| | | | | | |
|------------|-------------------|------------|-------------|----------|---------------|
| Sample ID: | S17191155B | Client ID: | MW-4 | Sampler: | Client |
|------------|-------------------|------------|-------------|----------|---------------|

Client: Coletto Creek Power - R Coleman
 Study: Water
 Project: CCR Sampling
 Location: MW #4
 Notes:

Batch No: 57535
 Sampled: 7/10/2017 11:26 AM
 Type: Grab
 Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 101 | mg/L | EPA 300 | K Baros | 7/12/2017 0:47 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 243 | mg/L | SM 2320 B | | 7/13/2017 11:12 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/13/2017 11:12 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 243 | mg/L | SM 2320 B | | 7/13/2017 11:12 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.62 | mg/L | EPA 300 | K Baros | 7/12/2017 0:47 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.17 | SU | SM 4500-H+B | P Ryan | 7/10/2017 16:05 | | | | | <input type="checkbox"/> | |
| Solids, Total Dissolved | 670 | mg/L | SM2540C | C Watts | 7/13/2017 14:00 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/14/2017 14:58 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 158 | mg/L | EPA 300 | K Baros | 7/12/2017 0:47 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 8/7/2017 8:05 | | | | | <input checked="" type="checkbox"/> | ARS International |



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B Environmental, LLC.

BatchNo:

57535

1606 E Brazos, Suite D

Victoria TX 77901

Sample Report Information



| | | | | | |
|-------------------|-------------------|-------------------|-------------|-----------------|---------------|
| Sample ID: | S17191155C | Client ID: | MW-8 | Sampler: | Client |
|-------------------|-------------------|-------------------|-------------|-----------------|---------------|

Client: Coleta Creek Power - R Coleman

Batch No: 57535

Study: Water

Sampled: 7/10/2017

9:04 AM

Project: CCR Sampling

Location: MW #8

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 63 | mg/L | EPA 300 | K Baros | 7/12/2017 1:25 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 255 | mg/L | SM 2320 B | | 7/13/2017 11:20 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/13/2017 11:20 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 255 | mg/L | SM 2320 B | | 7/13/2017 11:20 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.44 | mg/L | EPA 300 | K Baros | 7/12/2017 1:25 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.05 | SU | SM 4500-H+B | P Ryan | 7/10/2017 16:05 | | | | | | <input type="checkbox"/> |
| Solids, Total Dissolved | 533 | mg/L | SM2540C | C Watts | 7/13/2017 14:00 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/14/2017 15:14 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 97 | mg/L | EPA 300 | K Baros | 7/12/2017 1:25 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 8/7/2017 8:05 | | | | | | <input checked="" type="checkbox"/> ARS International |



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 Victoria TX 77901

BatchNo: 57535

Sample Report Information



| | | |
|------------------------------|-------------------------|------------------------|
| Sample ID: S17191155D | Client ID: BV-15 | Sampler: Client |
|------------------------------|-------------------------|------------------------|

Client: Coletto Creek Power - R Coleman
 Study: Water
 Project: CCR Sampling
 Location: BV 15
 Notes:

Batch No: 57535
 Sampled: 7/10/2017 11:04 AM
 Type: Grab
 Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 46 | mg/L | EPA 300 | K Baros | 7/12/2017 2:03 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 202 | mg/L | SM 2320 B | | 7/13/2017 11:26 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/13/2017 11:26 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 202 | mg/L | SM 2320 B | | 7/13/2017 11:26 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.79 | mg/L | EPA 300 | K Baros | 7/12/2017 2:03 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.27 | SU | SM 4500-H+B | P Ryan | 7/10/2017 16:05 | | | | | <input type="checkbox"/> | |
| Solids, Total Dissolved | 423 | mg/L | SM2540C | C Watts | 7/13/2017 14:00 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/14/2017 15:16 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 79 | mg/L | EPA 300 | K Baros | 7/12/2017 2:03 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 8/7/2017 8:05 | | | | | <input checked="" type="checkbox"/> | ARS International |



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B Environmental, LLC.

BatchNo:

57535

1606 E Brazos, Suite D

Victoria TX 77901

Sample Report Information



| | | | | | |
|-------------------|-------------------|-------------------|--------------|-----------------|---------------|
| Sample ID: | S17191155E | Client ID: | BV-21 | Sampler: | Client |
|-------------------|-------------------|-------------------|--------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman

Batch No: 57535

Study: Water

Sampled: 7/10/2017

10:34 AM

Project: CCR Sampling

Location: BV 21

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 39 | mg/L | EPA 300 | K Baros | 7/12/2017 2:42 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 240 | mg/L | SM 2320 B | | 7/13/2017 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/13/2017 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 240 | mg/L | SM 2320 B | | 7/13/2017 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.58 | mg/L | EPA 300 | K Baros | 7/12/2017 2:42 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.11 | SU | SM 4500-H+B | P Ryan | 7/10/2017 16:05 | | | | | <input type="checkbox"/> | |
| Solids, Total Dissolved | 427 | mg/L | SM2540C | C Watts | 7/13/2017 14:00 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/14/2017 15:18 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 45 | mg/L | EPA 300 | K Baros | 7/12/2017 2:42 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 8/7/2017 8:05 | | | | | <input checked="" type="checkbox"/> | ARS International |



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BatchNo:

57535

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Sample Report Information



| | | | | | |
|-------------------|-------------------|-------------------|--------------|-----------------|---------------|
| Sample ID: | S17191155F | Client ID: | BV-22 | Sampler: | Client |
|-------------------|-------------------|-------------------|--------------|-----------------|---------------|

Client: Coleta Creek Power - R Coleman

Batch No: 57535

Study: Water

Sampled: 7/10/2017

9:47 AM

Project: CCR Sampling

Location: BV 22

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 39 | mg/L | EPA 300 | K Baros | 7/12/2017 3:20 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 244 | mg/L | SM 2320 B | | 7/13/2017 11:42 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/13/2017 11:42 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 244 | mg/L | SM 2320 B | | 7/13/2017 11:42 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.52 | mg/L | EPA 300 | K Baros | 7/12/2017 3:20 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.15 | SU | SM 4500-H+B | P Ryan | 7/10/2017 16:05 | | | | | | <input type="checkbox"/> |
| Solids, Total Dissolved | 377 | mg/L | SM2540C | C Watts | 7/13/2017 14:00 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/14/2017 15:10 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 28 | mg/L | EPA 300 | K Baros | 7/12/2017 3:20 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 8/7/2017 8:05 | | | | | | <input checked="" type="checkbox"/> ARS International |



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BatchNo: 57535

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Sample Report Information



| | | | |
|------------------------------|-------------------------|-----------------|---------------|
| Sample ID: S17191155G | Client ID: Dup 1 | Sampler: | Client |
|------------------------------|-------------------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman
 Study: Water
 Project: CCR Sampling
 Location: Dup
 Notes:

Batch No: 57535
 Sampled: 7/10/2017 12:00 AM
 Type: Grab
 Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 63 | mg/L | EPA 300 | K Baros | 7/12/2017 5:14 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 256 | mg/L | SM 2320 B | | 7/13/2017 11:58 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/13/2017 11:58 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 256 | mg/L | SM 2320 B | | 7/13/2017 11:58 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.44 | mg/L | EPA 300 | K Baros | 7/12/2017 5:14 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.08 | SU | SM 4500-H+B | P Ryan | 7/10/2017 16:05 | | | | | <input type="checkbox"/> | |
| Solids, Total Dissolved | 533 | mg/L | SM2540C | C Watts | 7/13/2017 14:00 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/14/2017 15:20 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 96 | mg/L | EPA 300 | K Baros | 7/12/2017 5:14 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 8/7/2017 8:05 | | | | | <input checked="" type="checkbox"/> | ARS International |



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QA Summary Report

| Parameter | ID | Result | Ref Value | Amt Added | LOQ | Qualifier | Control | Flag | Comments |
|------------------------------------|------------|-----------|-----------|-----------|------|-----------|----------|------|-------------------------------|
| Method Blank | | | | | | | | | |
| - Chloride, IC | Q172012011 | <1mg/L | 0 | | 1 | | 1 | | Blank Acceptable. |
| 7/11/2017 15:54 | | | | | | | | | |
| Fluoride, IC | Q172012011 | <0.25mg/L | 0 | 0.25 | | | 0.25 | | Blank Acceptable. |
| 7/11/2017 15:54 | | | | | | | | | |
| Solids, Total Dissolved | Q172001441 | <25mg/L | 0 | | 10 | | 25 | | Blank Acceptable. |
| 7/13/2017 14:00 | | | | | | | | | |
| Sulfate, IC | Q172012011 | <1mg/L | 0 | | 1 | | 1 | | Blank Acceptable. |
| 7/11/2017 15:54 | | | | | | | | | |
| Duplicate | | | | | | | | | |
| pH (Standard Units) | Q171911641 | 7.12SU | 7.15 | | 2 | 0.4% | 20 | | Duplicate RPD Acceptable. |
| 7/10/2017 16:05 | | | | | | | | | |
| Solids, Total Dissolved | Q17200144B | 377mg/L | 377 | | 10 | 0.0% | 20 | | Duplicate RPD Acceptable. |
| 7/13/2017 14:00 | | | | | | | | | |
| Laboratory Control Standard | | | | | | | | | |
| - Chloride, IC | Q172012012 | 24.7mg/L | 25 | | 1 | 98.8% | 80 - 120 | | Standard Recovery Acceptable. |
| 7/11/2017 16:32 | | | | | | 1.2% | 20 | | Standard RPD Acceptable. |
| Fluoride, IC | Q172012012 | 1.81mg/L | 2 | 0.25 | | 90.5% | 80 - 120 | | Standard Recovery Acceptable. |
| 7/11/2017 16:32 | | | | | | 10.0% | 20 | | Standard RPD Acceptable. |
| pH (Standard Units) | Q171911640 | 7.02SU | 7 | | 2 | 100.3% | 80 - 120 | | Standard Recovery Acceptable. |
| 7/10/2017 16:05 | | | | | | 0.3% | 20 | | Standard RPD Acceptable. |
| Sulfate, IC | Q172012012 | 25mg/L | 25 | | 1 | 100.0% | 80 - 120 | | Standard Recovery Acceptable. |
| 7/11/2017 16:32 | | | | | | 0.0% | 20 | | Standard RPD Acceptable. |
| Matrix Spike | | | | | | | | | |
| - Chloride, IC | Q17201201C | 60.8mg/L | 60 | 25 | 1 | 103.2% | 80 - 120 | | Spike Recovery Acceptable. |
| 7/12/2017 3:58 | | | | | | 1.3% | 20 | | Spike RPD Acceptable. |
| Fluoride, IC | Q17201201C | 2.29mg/L | 2.46 | 2 | 0.25 | 91.5% | 80 - 120 | | Spike Recovery Acceptable. |
| 7/12/2017 3:58 | | | | | | 7.2% | 20 | | Spike RPD Acceptable. |
| Sulfate, IC | Q17201201C | 49.8mg/L | 50 | 25 | 1 | 99.2% | 70 - 130 | | Spike Recovery Acceptable. |
| 7/12/2017 3:58 | | | | | | 0.4% | 20 | | Spike RPD Acceptable. |
| Matrix Spike Dup | | | | | | | | | |
| - Chloride, IC | Q17201201D | 60.9mg/L | 60 | 25 | 1 | 103.6% | 80 - 120 | | Spike Recovery Acceptable. |
| 7/12/2017 4:36 | | | | | | 1.5% | 20 | | Spike RPD Acceptable. |
| Fluoride, IC | Q17201201D | 2.31mg/L | 2.46 | 2 | 0.25 | 92.5% | 80 - 120 | | Spike Recovery Acceptable. |
| 7/12/2017 4:36 | | | | | | 6.3% | 20 | | Spike RPD Acceptable. |
| Sulfate, IC | Q17201201D | 49.98mg/L | 50 | 25 | 1 | 99.9% | 70 - 130 | | Spike Recovery Acceptable. |
| 7/12/2017 4:36 | | | | | | 0.0% | 20 | | Spike RPD Acceptable. |



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BatchNo:

57535

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Flag and Qualifier Legend



Negative - Result Detected

MDL = Method Detection Limit

DF = Dilution Factor



Caution - Problem Detected

LOQ = Limit of Quantitation

j = Analyte detected between MDL and LOQ



Warning - Null Value

S = surrogate standard out of limit

H = sample out of hold time



MS, MSD, RPD- Failure may occur due to matrix interference, data released per QA plan

Thursday, August 17, 2017

B Environmental - LDMS QA Report Summary

Note:

THANK YOU!



B Environmental, LLC.

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Victoria TX

77901

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DHL Analytical, Inc.

Date: 19-Jul-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Lab Order: 1707057

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition and Standard Methods.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives except where noted in the following. For Total Metals Analysis, the recoveries of two analytes for the Matrix Spike and Matrix Spike Duplicate (1707057-06 MS/MSD) were above the method control limits. These are flagged accordingly in the QC Summary Report. These analytes were within method control limits in the associated LCS. No further corrective action was taken.

For Total Metals Analysis, the RPD of Boron for the Serial Dilution (1707057-06 SD) was above the method control limit. This is flagged accordingly in the QC Summary Report. This analyte was within method control limits in the associated Post digestion Spike. No further corrective action was taken.

For Metals Analysis, the results of Dissolved Lithium/Molybdenum for five samples was slightly higher than the results of Total Lithium/Molybdenum. The results were within acceptable analytical variation limits. No further corrective action was taken.

DHL Analytical, Inc.

Date: 19-Jul-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (57535)
Lab Order: 1707057

Client Sample ID: Blank
Lab ID: 1707057-01
Alternate ID: S171911556
Collection Date: 07/10/17 02:00 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|--------|----------------|-------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | <10.0 | 5.00 | 10.0 | | µg/L | 1 | 07/18/17 11:33 AM |
| Dissolved Molybdenum | <5.00 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 11:33 AM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <2.50 | 0.800 | 2.50 | | µg/L | 1 | 07/14/17 02:31 PM |
| Arsenic | <5.00 | 2.00 | 5.00 | | µg/L | 1 | 07/14/17 02:31 PM |
| Barium | <10.0 | 3.00 | 10.0 | | µg/L | 1 | 07/14/17 02:31 PM |
| Beryllium | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/14/17 02:31 PM |
| Boron | <30.0 | 10.0 | 30.0 | | µg/L | 1 | 07/14/17 02:31 PM |
| Cadmium | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/14/17 02:31 PM |
| Calcium | <300 | 100 | 300 | | µg/L | 1 | 07/14/17 02:31 PM |
| Chromium | <5.00 | 2.00 | 5.00 | | µg/L | 1 | 07/14/17 02:31 PM |
| Cobalt | <5.00 | 3.00 | 5.00 | | µg/L | 1 | 07/14/17 02:31 PM |
| Lead | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/14/17 02:31 PM |
| Lithium | <10.0 | 5.00 | 10.0 | | µg/L | 1 | 07/14/17 02:31 PM |
| Magnesium | <300 | 100 | 300 | | µg/L | 1 | 07/14/17 02:31 PM |
| Molybdenum | <5.00 | 2.00 | 5.00 | | µg/L | 1 | 07/14/17 02:31 PM |
| Potassium | <300 | 100 | 300 | | µg/L | 1 | 07/14/17 02:31 PM |
| Selenium | <5.00 | 2.00 | 5.00 | | µg/L | 1 | 07/14/17 02:31 PM |
| Sodium | <300 | 100 | 300 | | µg/L | 1 | 07/14/17 02:31 PM |
| Thallium | <1.50 | 0.500 | 1.50 | | µg/L | 1 | 07/14/17 02:31 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.200 | 0.0800 | 0.200 | | µg/L | 1 | 07/14/17 09:56 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | <20.0 | 10.0 | 20.0 | | mg/L @ pH 4.32 | 1 | 07/13/17 11:04 AM |
| Alkalinity, Carbonate (As CaCO3) | <20.0 | 10.0 | 20.0 | | mg/L @ pH 4.32 | 1 | 07/13/17 11:04 AM |
| Alkalinity, Hydroxide (As CaCO3) | <20.0 | 10.0 | 20.0 | | mg/L @ pH 4.32 | 1 | 07/13/17 11:04 AM |
| Alkalinity, Total (As CaCO3) | <20.0 | 20.0 | 20.0 | | mg/L @ pH 4.32 | 1 | 07/13/17 11:04 AM |

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds TCLP Maximum Concentration Level | B Analyte detected in the associated Method Blank |
| | C Sample Result or QC discussed in the Case Narrative | DF Dilution Factor |
| | E TPH pattern not Gas or Diesel Range Pattern | J Analyte detected between MDL and RL |
| | MDL Method Detection Limit | ND Not Detected at the Method Detection Limit |
| | RL Reporting Limit | S Spike Recovery outside control limits |

DHL Analytical, Inc.

Date: 19-Jul-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR Sampling (57535)
Lab Order: 1707057

Client Sample ID: MW-4
Lab ID: 1707057-02
Alternate ID: S17191155B
Collection Date: 07/10/17 11:26 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|--------|----------------|-------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 19.6 | 5.00 | 10.0 | | µg/L | 1 | 07/18/17 11:35 AM |
| Dissolved Molybdenum | <5.00 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 11:35 AM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <2.50 | 0.800 | 2.50 | | µg/L | 1 | 07/14/17 02:58 PM |
| Arsenic | 8.46 | 2.00 | 5.00 | | µg/L | 1 | 07/14/17 02:58 PM |
| Barium | 58.2 | 3.00 | 10.0 | | µg/L | 1 | 07/14/17 02:58 PM |
| Beryllium | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/14/17 02:58 PM |
| Boron | 27.1 | 10.0 | 30.0 | | µg/L | 1 | 07/14/17 02:58 PM |
| Cadmium | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/14/17 02:58 PM |
| Calcium | 111000 | 1000 | 3000 | | µg/L | 10 | 07/14/17 02:33 PM |
| Chromium | 3.20 | 2.00 | 5.00 | J | µg/L | 1 | 07/14/17 02:58 PM |
| Cobalt | 8.50 | 3.00 | 5.00 | | µg/L | 1 | 07/14/17 02:58 PM |
| Lead | 0.567 | 0.300 | 1.00 | J | µg/L | 1 | 07/14/17 02:58 PM |
| Lithium | 18.7 | 5.00 | 10.0 | | µg/L | 1 | 07/14/17 02:58 PM |
| Magnesium | 18100 | 100 | 300 | | µg/L | 1 | 07/14/17 02:58 PM |
| Molybdenum | <5.00 | 2.00 | 5.00 | | µg/L | 1 | 07/14/17 02:58 PM |
| Potassium | 1490 | 100 | 300 | | µg/L | 1 | 07/14/17 02:58 PM |
| Selenium | <5.00 | 2.00 | 5.00 | | µg/L | 1 | 07/14/17 02:58 PM |
| Sodium | 110000 | 1000 | 3000 | | µg/L | 10 | 07/14/17 02:33 PM |
| Thallium | <1.50 | 0.500 | 1.50 | | µg/L | 1 | 07/14/17 02:58 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.200 | 0.0800 | 0.200 | | µg/L | 1 | 07/14/17 09:59 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 243 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/13/17 11:12 AM |
| Alkalinity, Carbonate (As CaCO3) | <20.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/13/17 11:12 AM |
| Alkalinity, Hydroxide (As CaCO3) | <20.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/13/17 11:12 AM |
| Alkalinity, Total (As CaCO3) | 243 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/13/17 11:12 AM |

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- B Analyte detected in the associated Method Blank
- C Sample Result or QC discussed in the Case Narrative
- DF Dilution Factor
- E TPH pattern not Gas or Diesel Range Pattern
- J Analyte detected between MDL and RL
- MDL Method Detection Limit
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- S Spike Recovery outside control limits

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DHL Analytical, Inc.

Date: 19-Jul-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (57535)
Lab Order: 1707057

Client Sample ID: MW-8
Lab ID: 1707057-03
Alternate ID: S17191155C
Collection Date: 07/10/17 09:04 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|--------|----------------|-------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 12.6 | 5.00 | 10.0 | | µg/L | 1 | 07/18/17 11:51 AM |
| Dissolved Molybdenum | 17.0 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 11:51 AM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <2.50 | 0.800 | 2.50 | | µg/L | 1 | 07/14/17 03:14 PM |
| Arsenic | 9.02 | 2.00 | 5.00 | | µg/L | 1 | 07/14/17 03:14 PM |
| Barium | 63.1 | 3.00 | 10.0 | | µg/L | 1 | 07/14/17 03:14 PM |
| Beryllium | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/14/17 03:14 PM |
| Boron | 1240 | 100 | 300 | | µg/L | 10 | 07/14/17 02:36 PM |
| Cadmium | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/14/17 03:14 PM |
| Calcium | 92600 | 1000 | 3000 | | µg/L | 10 | 07/14/17 02:36 PM |
| Chromium | <5.00 | 2.00 | 5.00 | | µg/L | 1 | 07/14/17 03:14 PM |
| Cobalt | 31.0 | 3.00 | 5.00 | | µg/L | 1 | 07/14/17 03:14 PM |
| Lead | 0.375 | 0.300 | 1.00 | J | µg/L | 1 | 07/14/17 03:14 PM |
| Lithium | 11.2 | 5.00 | 10.0 | | µg/L | 1 | 07/14/17 03:14 PM |
| Magnesium | 12700 | 100 | 300 | | µg/L | 1 | 07/14/17 03:14 PM |
| Molybdenum | 16.5 | 2.00 | 5.00 | | µg/L | 1 | 07/14/17 03:14 PM |
| Potassium | 986 | 100 | 300 | | µg/L | 1 | 07/14/17 03:14 PM |
| Selenium | <5.00 | 2.00 | 5.00 | | µg/L | 1 | 07/14/17 03:14 PM |
| Sodium | 85900 | 1000 | 3000 | | µg/L | 10 | 07/14/17 02:36 PM |
| Thallium | <1.50 | 0.500 | 1.50 | | µg/L | 1 | 07/14/17 03:14 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.200 | 0.0800 | 0.200 | | µg/L | 1 | 07/14/17 10:01 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 255 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/13/17 11:20 AM |
| Alkalinity, Carbonate (As CaCO3) | <20.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/13/17 11:20 AM |
| Alkalinity, Hydroxide (As CaCO3) | <20.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/13/17 11:20 AM |
| Alkalinity, Total (As CaCO3) | 255 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/13/17 11:20 AM |

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 19-Jul-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (57535)
Lab Order: 1707057

Client Sample ID: BV-15
Lab ID: 1707057-04
Alternate ID: S17191155D
Collection Date: 07/10/17 11:04 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|--------|----------------|-------|------|----------------|----|---------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | | | | Analyst: SP |
| Dissolved Lithium | 7.54 | 5.00 | 10.0 | J | µg/L | 1 | 07/18/17 11:53 AM |
| Dissolved Molybdenum | 17.8 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 11:53 AM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | | | | Analyst: SP |
| Antimony | <2.50 | 0.800 | 2.50 | | µg/L | 1 | 07/14/17 03:16 PM |
| Arsenic | 9.48 | 2.00 | 5.00 | | µg/L | 1 | 07/14/17 03:16 PM |
| Barium | 57.4 | 3.00 | 10.0 | | µg/L | 1 | 07/14/17 03:16 PM |
| Beryllium | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/14/17 03:16 PM |
| Boron | 1250 | 100 | 300 | | µg/L | 10 | 07/14/17 02:38 PM |
| Cadmium | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/14/17 03:16 PM |
| Calcium | 76700 | 1000 | 3000 | | µg/L | 10 | 07/14/17 02:38 PM |
| Chromium | <5.00 | 2.00 | 5.00 | | µg/L | 1 | 07/14/17 03:16 PM |
| Cobalt | 14.6 | 3.00 | 5.00 | | µg/L | 1 | 07/14/17 03:16 PM |
| Lead | 4.81 | 0.300 | 1.00 | | µg/L | 1 | 07/14/17 03:16 PM |
| Lithium | 7.56 | 5.00 | 10.0 | J | µg/L | 1 | 07/14/17 03:16 PM |
| Magnesium | 8610 | 100 | 300 | | µg/L | 1 | 07/14/17 03:16 PM |
| Molybdenum | 18.2 | 2.00 | 5.00 | | µg/L | 1 | 07/14/17 03:16 PM |
| Potassium | 1170 | 100 | 300 | | µg/L | 1 | 07/14/17 03:16 PM |
| Selenium | <5.00 | 2.00 | 5.00 | | µg/L | 1 | 07/14/17 03:16 PM |
| Sodium | 77600 | 1000 | 3000 | | µg/L | 10 | 07/14/17 02:38 PM |
| Thallium | <1.50 | 0.500 | 1.50 | | µg/L | 1 | 07/14/17 03:16 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | | | Analyst: AH |
| Mercury | <0.200 | 0.0800 | 0.200 | | µg/L | 1 | 07/14/17 10:03 AM |
| ALKALINITY | | M2320 B | | | | | Analyst: BTJ |
| Alkalinity, Bicarbonate (As CaCO3) | 202 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/13/17 11:26 AM |
| Alkalinity, Carbonate (As CaCO3) | <20.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/13/17 11:26 AM |
| Alkalinity, Hydroxide (As CaCO3) | <20.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/13/17 11:26 AM |
| Alkalinity, Total (As CaCO3) | 202 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/13/17 11:26 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 19-Jul-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (57535)
Lab Order: 1707057

Client Sample ID: BV-21
Lab ID: 1707057-05
Alternate ID: S17191155E
Collection Date: 07/10/17 10:34 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|--------|----------------|-------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 6.28 | 5.00 | 10.0 | J | µg/L | 1 | 07/18/17 11:55 AM |
| Dissolved Molybdenum | 2.52 | 2.00 | 5.00 | J | µg/L | 1 | 07/18/17 11:55 AM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <2.50 | 0.800 | 2.50 | | µg/L | 1 | 07/14/17 03:18 PM |
| Arsenic | 123 | 2.00 | 5.00 | | µg/L | 1 | 07/14/17 03:18 PM |
| Barium | 110 | 3.00 | 10.0 | | µg/L | 1 | 07/14/17 03:18 PM |
| Beryllium | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/14/17 03:18 PM |
| Boron | 674 | 100 | 300 | | µg/L | 10 | 07/14/17 02:54 PM |
| Cadmium | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/14/17 03:18 PM |
| Calcium | 90600 | 1000 | 3000 | | µg/L | 10 | 07/14/17 02:54 PM |
| Chromium | 2.57 | 2.00 | 5.00 | J | µg/L | 1 | 07/14/17 03:18 PM |
| Cobalt | 8.60 | 3.00 | 5.00 | | µg/L | 1 | 07/14/17 03:18 PM |
| Lead | 0.812 | 0.300 | 1.00 | J | µg/L | 1 | 07/14/17 03:18 PM |
| Lithium | 5.38 | 5.00 | 10.0 | J | µg/L | 1 | 07/14/17 03:18 PM |
| Magnesium | 8370 | 100 | 300 | | µg/L | 1 | 07/14/17 03:18 PM |
| Molybdenum | 2.50 | 2.00 | 5.00 | J | µg/L | 1 | 07/14/17 03:18 PM |
| Potassium | 902 | 100 | 300 | | µg/L | 1 | 07/14/17 03:18 PM |
| Selenium | <5.00 | 2.00 | 5.00 | | µg/L | 1 | 07/14/17 03:18 PM |
| Sodium | 60400 | 1000 | 3000 | | µg/L | 10 | 07/14/17 02:54 PM |
| Thallium | <1.50 | 0.500 | 1.50 | | µg/L | 1 | 07/14/17 03:18 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.200 | 0.0800 | 0.200 | | µg/L | 1 | 07/14/17 10:06 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 240 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/13/17 11:34 AM |
| Alkalinity, Carbonate (As CaCO3) | <20.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/13/17 11:34 AM |
| Alkalinity, Hydroxide (As CaCO3) | <20.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/13/17 11:34 AM |
| Alkalinity, Total (As CaCO3) | 240 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/13/17 11:34 AM |

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 19-Jul-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (57535)
Lab Order: 1707057

Client Sample ID: BV-22
Lab ID: 1707057-06
Alternate ID: S17191155F
Collection Date: 07/10/17 09:47 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|--------|----------------|-------|------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | | | | Analyst: SP |
| Dissolved Lithium | 7.00 | 5.00 | 10.0 | J | µg/L | 1 | 07/18/17 11:16 AM |
| Dissolved Molybdenum | 8.62 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 11:16 AM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | | | | Analyst: SP |
| Antimony | <2.50 | 0.800 | 2.50 | | µg/L | 1 | 07/14/17 03:10 PM |
| Arsenic | 6.68 | 2.00 | 5.00 | | µg/L | 1 | 07/14/17 03:10 PM |
| Barium | 52.5 | 3.00 | 10.0 | | µg/L | 1 | 07/14/17 03:10 PM |
| Beryllium | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/14/17 03:10 PM |
| Boron | 599 | 100 | 300 | | µg/L | 10 | 07/14/17 02:17 PM |
| Cadmium | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/14/17 03:10 PM |
| Calcium | 92000 | 1000 | 3000 | | µg/L | 10 | 07/14/17 02:17 PM |
| Chromium | <5.00 | 2.00 | 5.00 | | µg/L | 1 | 07/14/17 03:10 PM |
| Cobalt | <5.00 | 3.00 | 5.00 | | µg/L | 1 | 07/14/17 03:10 PM |
| Lead | 0.986 | 0.300 | 1.00 | J | µg/L | 1 | 07/14/17 03:10 PM |
| Lithium | 7.38 | 5.00 | 10.0 | J | µg/L | 1 | 07/14/17 03:10 PM |
| Magnesium | 10600 | 100 | 300 | | µg/L | 1 | 07/14/17 03:10 PM |
| Molybdenum | 8.52 | 2.00 | 5.00 | | µg/L | 1 | 07/14/17 03:10 PM |
| Potassium | 1050 | 100 | 300 | | µg/L | 1 | 07/14/17 03:10 PM |
| Selenium | <5.00 | 2.00 | 5.00 | | µg/L | 1 | 07/14/17 03:10 PM |
| Sodium | 60600 | 1000 | 3000 | | µg/L | 10 | 07/14/17 02:17 PM |
| Thallium | <1.50 | 0.500 | 1.50 | | µg/L | 1 | 07/14/17 03:10 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | | | Analyst: AH |
| Mercury | <0.200 | 0.0800 | 0.200 | | µg/L | 1 | 07/14/17 10:08 AM |
| ALKALINITY | | M2320 B | | | | | Analyst: BTJ |
| Alkalinity, Bicarbonate (As CaCO3) | 244 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/13/17 11:42 AM |
| Alkalinity, Carbonate (As CaCO3) | <20.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/13/17 11:42 AM |
| Alkalinity, Hydroxide (As CaCO3) | <20.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/13/17 11:42 AM |
| Alkalinity, Total (As CaCO3) | 244 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/13/17 11:42 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 19-Jul-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (57535)
Lab Order: 1707057

Client Sample ID: Dup1
Lab ID: 1707057-07
Alternate ID: S17191155G
Collection Date: 07/10/17
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|--------|----------------|-------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 11.9 | 5.00 | 10.0 | | µg/L | 1 | 07/18/17 11:57 AM |
| Dissolved Molybdenum | 16.6 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 11:57 AM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <2.50 | 0.800 | 2.50 | | µg/L | 1 | 07/14/17 03:20 PM |
| Arsenic | 9.30 | 2.00 | 5.00 | | µg/L | 1 | 07/14/17 03:20 PM |
| Barium | 64.6 | 3.00 | 10.0 | | µg/L | 1 | 07/14/17 03:20 PM |
| Beryllium | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/14/17 03:20 PM |
| Boron | 1350 | 100 | 300 | | µg/L | 10 | 07/14/17 02:56 PM |
| Cadmium | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/14/17 03:20 PM |
| Calcium | 96500 | 1000 | 3000 | | µg/L | 10 | 07/14/17 02:56 PM |
| Chromium | 12.9 | 2.00 | 5.00 | | µg/L | 1 | 07/14/17 03:20 PM |
| Cobalt | 32.0 | 3.00 | 5.00 | | µg/L | 1 | 07/14/17 03:20 PM |
| Lead | 0.321 | 0.300 | 1.00 | J | µg/L | 1 | 07/14/17 03:20 PM |
| Lithium | 11.0 | 5.00 | 10.0 | | µg/L | 1 | 07/14/17 03:20 PM |
| Magnesium | 13200 | 100 | 300 | | µg/L | 1 | 07/14/17 03:20 PM |
| Molybdenum | 16.9 | 2.00 | 5.00 | | µg/L | 1 | 07/14/17 03:20 PM |
| Potassium | 1040 | 100 | 300 | | µg/L | 1 | 07/14/17 03:20 PM |
| Selenium | <5.00 | 2.00 | 5.00 | | µg/L | 1 | 07/14/17 03:20 PM |
| Sodium | 89500 | 1000 | 3000 | | µg/L | 10 | 07/14/17 02:56 PM |
| Thallium | <1.50 | 0.500 | 1.50 | | µg/L | 1 | 07/14/17 03:20 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.200 | 0.0800 | 0.200 | | µg/L | 1 | 07/14/17 10:19 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 256 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/13/17 11:58 AM |
| Alkalinity, Carbonate (As CaCO3) | <20.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/13/17 11:58 AM |
| Alkalinity, Hydroxide (As CaCO3) | <20.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/13/17 11:58 AM |
| Alkalinity, Total (As CaCO3) | 256 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/13/17 11:58 AM |

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds TCLP Maximum Concentration Level | B Analyte detected in the associated Method Blank |
| | C Sample Result or QC discussed in the Case Narrative | DF Dilution Factor |
| | E TPH pattern not Gas or Diesel Range Pattern | J Analyte detected between MDL and RL |
| | MDL Method Detection Limit | ND Not Detected at the Method Detection Limit |
| | RL Reporting Limit | S Spike Recovery outside control limits |

DHL Analytical, Inc.

Date: 19-Jul-17

CLIENT: B-Environmental
Work Order: 1707057
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_170714A

The QC data in batch 81404 applies to the following samples: 1707057-01A, 1707057-02A, 1707057-03A, 1707057-04A, 1707057-05A, 1707057-06A, 1707057-07A

| | | | |
|---------------------------|----------------------------------|--|-----------------------------|
| Sample ID MB-81404 | Batch ID: 81404 | TestNo: SW7470A | Units: µg/L |
| SampType: MBLK | Run ID: CETAC2_HG_170714A | Analysis Date: 7/14/2017 9:45:37 AM | Prep Date: 7/13/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | <0.200 | 0.200 | | | | | | | | |

| | | | |
|----------------------------|----------------------------------|--|-----------------------------|
| Sample ID LCS-81404 | Batch ID: 81404 | TestNo: SW7470A | Units: µg/L |
| SampType: LCS | Run ID: CETAC2_HG_170714A | Analysis Date: 7/14/2017 9:47:53 AM | Prep Date: 7/13/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 2.10 | 0.200 | 2.000 | 0 | 105 | 85 | 115 | | | |

| | | | |
|-----------------------------|----------------------------------|--|-----------------------------|
| Sample ID LCSD-81404 | Batch ID: 81404 | TestNo: SW7470A | Units: µg/L |
| SampType: LCSD | Run ID: CETAC2_HG_170714A | Analysis Date: 7/14/2017 9:50:09 AM | Prep Date: 7/13/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 2.02 | 0.200 | 2.000 | 0 | 101 | 85 | 115 | 3.88 | 15 | |

| | | | |
|---------------------------------|----------------------------------|---|-----------------------------|
| Sample ID 1707057-06A SD | Batch ID: 81404 | TestNo: SW7470A | Units: µg/L |
| SampType: SD | Run ID: CETAC2_HG_170714A | Analysis Date: 7/14/2017 10:10:32 AM | Prep Date: 7/13/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | <1.00 | 1.00 | 0 | 0 | | | | 0 | 10 | |

| | | | |
|----------------------------------|----------------------------------|---|-----------------------------|
| Sample ID 1707057-06A PDS | Batch ID: 81404 | TestNo: SW7470A | Units: µg/L |
| SampType: PDS | Run ID: CETAC2_HG_170714A | Analysis Date: 7/14/2017 10:12:47 AM | Prep Date: 7/13/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 2.43 | 0.200 | 2.500 | 0 | 97.2 | 85 | 115 | | | |

| | | | |
|---------------------------------|----------------------------------|---|-----------------------------|
| Sample ID 1707057-06A MS | Batch ID: 81404 | TestNo: SW7470A | Units: µg/L |
| SampType: MS | Run ID: CETAC2_HG_170714A | Analysis Date: 7/14/2017 10:15:03 AM | Prep Date: 7/13/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 2.04 | 0.200 | 2.000 | 0 | 102 | 80 | 120 | | | |

| | | | |
|----------------------------------|----------------------------------|---|-----------------------------|
| Sample ID 1707057-06A MSD | Batch ID: 81404 | TestNo: SW7470A | Units: µg/L |
| SampType: MSD | Run ID: CETAC2_HG_170714A | Analysis Date: 7/14/2017 10:17:20 AM | Prep Date: 7/13/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|-------|----------|------|
| Mercury | 2.02 | 0.200 | 2.000 | 0 | 101 | 80 | 120 | 0.985 | 15 | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1707057
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170714A

The QC data in batch 81372 applies to the following samples: 1707057-01A, 1707057-02A, 1707057-03A, 1707057-04A, 1707057-05A, 1707057-06A, 1707057-07A

| Sample ID | Batch ID: | TestNo: | Units: | | | | | | | |
|-----------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| MB-81372 | 81372 | SW6020A | µg/L | | | | | | | |
| SampType: MBLK | Run ID: ICP-MS4_170714A | Analysis Date: 7/14/2017 2:09:00 PM | Prep Date: 7/12/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Antimony | <2.50 | 2.50 | | | | | | | | |
| Arsenic | <5.00 | 5.00 | | | | | | | | |
| Barium | <10.0 | 10.0 | | | | | | | | |
| Beryllium | <1.00 | 1.00 | | | | | | | | |
| Boron | <30.0 | 30.0 | | | | | | | | |
| Cadmium | <1.00 | 1.00 | | | | | | | | |
| Calcium | <300 | 300 | | | | | | | | |
| Chromium | <5.00 | 5.00 | | | | | | | | |
| Cobalt | <5.00 | 5.00 | | | | | | | | |
| Lead | <1.00 | 1.00 | | | | | | | | |
| Lithium | <10.0 | 10.0 | | | | | | | | |
| Magnesium | <300 | 300 | | | | | | | | |
| Molybdenum | <5.00 | 5.00 | | | | | | | | |
| Potassium | <300 | 300 | | | | | | | | |
| Selenium | <5.00 | 5.00 | | | | | | | | |
| Sodium | <300 | 300 | | | | | | | | |
| Thallium | <1.50 | 1.50 | | | | | | | | |

| Sample ID | Batch ID: | TestNo: | Units: | | | | | | | |
|----------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| LCS-81372 | 81372 | SW6020A | µg/L | | | | | | | |
| SampType: LCS | Run ID: ICP-MS4_170714A | Analysis Date: 7/14/2017 2:11:00 PM | Prep Date: 7/12/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Antimony | 199 | 2.50 | 200.0 | 0 | 99.6 | 80 | 120 | | | |
| Arsenic | 202 | 5.00 | 200.0 | 0 | 101 | 80 | 120 | | | |
| Barium | 199 | 10.0 | 200.0 | 0 | 99.3 | 80 | 120 | | | |
| Beryllium | 207 | 1.00 | 200.0 | 0 | 103 | 80 | 120 | | | |
| Boron | 205 | 30.0 | 200.0 | 0 | 102 | 80 | 120 | | | |
| Cadmium | 201 | 1.00 | 200.0 | 0 | 101 | 80 | 120 | | | |
| Calcium | 5380 | 300 | 5000 | 0 | 108 | 80 | 120 | | | |
| Chromium | 205 | 5.00 | 200.0 | 0 | 103 | 80 | 120 | | | |
| Cobalt | 208 | 5.00 | 200.0 | 0 | 104 | 80 | 120 | | | |
| Lead | 199 | 1.00 | 200.0 | 0 | 99.7 | 80 | 120 | | | |
| Lithium | 208 | 10.0 | 200.0 | 0 | 104 | 80 | 120 | | | |
| Magnesium | 5070 | 300 | 5000 | 0 | 101 | 80 | 120 | | | |
| Molybdenum | 192 | 5.00 | 200.0 | 0 | 96.2 | 80 | 120 | | | |
| Potassium | 5090 | 300 | 5000 | 0 | 102 | 80 | 120 | | | |
| Selenium | 204 | 5.00 | 200.0 | 0 | 102 | 80 | 120 | | | |
| Sodium | 5170 | 300 | 5000 | 0 | 103 | 80 | 120 | | | |
| Thallium | 204 | 1.50 | 200.0 | 0 | 102 | 80 | 120 | | | |

| | |
|--|--|
| <p>Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL</p> | <p>DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified</p> |
|--|--|

CLIENT: B-Environmental
Work Order: 1707057
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170714A

| | | | | | | | |
|-----------|------------|-----------|-----------------|----------------|----------------------|------------|-----------|
| Sample ID | LCSD-81372 | Batch ID: | 81372 | TestNo: | SW6020A | Units: | µg/L |
| SampType: | LCSD | Run ID: | ICP-MS4_170714A | Analysis Date: | 7/14/2017 2:13:00 PM | Prep Date: | 7/12/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | 202 | 2.50 | 200.0 | 0 | 101 | 80 | 120 | 1.30 | 15 | |
| Arsenic | 204 | 5.00 | 200.0 | 0 | 102 | 80 | 120 | 0.981 | 15 | |
| Barium | 201 | 10.0 | 200.0 | 0 | 100 | 80 | 120 | 1.18 | 15 | |
| Beryllium | 208 | 1.00 | 200.0 | 0 | 104 | 80 | 120 | 0.492 | 15 | |
| Boron | 205 | 30.0 | 200.0 | 0 | 103 | 80 | 120 | 0.115 | 15 | |
| Cadmium | 204 | 1.00 | 200.0 | 0 | 102 | 80 | 120 | 1.25 | 15 | |
| Calcium | 5460 | 300 | 5000 | 0 | 109 | 80 | 120 | 1.42 | 15 | |
| Chromium | 208 | 5.00 | 200.0 | 0 | 104 | 80 | 120 | 1.32 | 15 | |
| Cobalt | 209 | 5.00 | 200.0 | 0 | 105 | 80 | 120 | 0.787 | 15 | |
| Lead | 200 | 1.00 | 200.0 | 0 | 100 | 80 | 120 | 0.507 | 15 | |
| Lithium | 209 | 10.0 | 200.0 | 0 | 105 | 80 | 120 | 0.792 | 15 | |
| Magnesium | 5150 | 300 | 5000 | 0 | 103 | 80 | 120 | 1.51 | 15 | |
| Molybdenum | 195 | 5.00 | 200.0 | 0 | 97.6 | 80 | 120 | 1.39 | 15 | |
| Potassium | 5190 | 300 | 5000 | 0 | 104 | 80 | 120 | 1.89 | 15 | |
| Selenium | 205 | 5.00 | 200.0 | 0 | 102 | 80 | 120 | 0.298 | 15 | |
| Sodium | 5140 | 300 | 5000 | 0 | 103 | 80 | 120 | 0.547 | 15 | |
| Thallium | 203 | 1.50 | 200.0 | 0 | 102 | 80 | 120 | 0.502 | 15 | |

| | | | | | | | |
|-----------|----------------|-----------|-----------------|----------------|----------------------|------------|-----------|
| Sample ID | 1707057-06A SD | Batch ID: | 81372 | TestNo: | SW6020A | Units: | µg/L |
| SampType: | SD | Run ID: | ICP-MS4_170714A | Analysis Date: | 7/14/2017 2:19:00 PM | Prep Date: | 7/12/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|-------|----------|------|
| Boron | 677 | 1500 | 0 | 599.0 | | | | 12.2 | 10 | R |
| Calcium | 93200 | 15000 | 0 | 92020 | | | | 1.29 | 10 | |
| Sodium | 61000 | 15000 | 0 | 60560 | | | | 0.779 | 10 | |

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|
| Sample ID | 1707057-06A PDS | Batch ID: | 81372 | TestNo: | SW6020A | Units: | µg/L |
| SampType: | PDS | Run ID: | ICP-MS4_170714A | Analysis Date: | 7/14/2017 2:40:00 PM | Prep Date: | 7/12/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Boron | 2750 | 300 | 2000 | 599.0 | 108 | 80 | 120 | | | |
| Calcium | 151000 | 3000 | 50000 | 92020 | 118 | 80 | 120 | | | |
| Sodium | 116000 | 3000 | 50000 | 60560 | 112 | 80 | 120 | | | |

| | | | | | | | |
|-----------|----------------|-----------|-----------------|----------------|----------------------|------------|-----------|
| Sample ID | 1707057-06A MS | Batch ID: | 81372 | TestNo: | SW6020A | Units: | µg/L |
| SampType: | MS | Run ID: | ICP-MS4_170714A | Analysis Date: | 7/14/2017 2:42:00 PM | Prep Date: | 7/12/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Boron | 835 | 300 | 200.0 | 599.0 | 118 | 80 | 120 | | | |
| Calcium | 98300 | 3000 | 5000 | 92020 | 126 | 80 | 120 | | | S |
| Sodium | 66700 | 3000 | 5000 | 60560 | 123 | 80 | 120 | | | S |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1707057
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170714A

| Sample ID | 1707057-06A MSD | Batch ID: | 81372 | TestNo: | SW6020A | Units: | µg/L | | | |
|-----------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|-------|----------|------|
| SampType: | MSD | Run ID: | ICP-MS4_170714A | Analysis Date: | 7/14/2017 2:44:00 PM | Prep Date: | 7/12/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 892 | 300 | 200.0 | 599.0 | 147 | 80 | 120 | 6.67 | 15 | S |
| Calcium | 98300 | 3000 | 5000 | 92020 | 126 | 80 | 120 | 0.013 | 15 | S |
| Sodium | 66100 | 3000 | 5000 | 60560 | 112 | 80 | 120 | 0.832 | 15 | |

| Sample ID | 1707057-06A SD | Batch ID: | 81372 | TestNo: | SW6020A | Units: | µg/L | | | |
|------------|----------------|-----------|-----------------|----------------|----------------------|------------|-----------|-------|----------|------|
| SampType: | SD | Run ID: | ICP-MS4_170714A | Analysis Date: | 7/14/2017 3:12:00 PM | Prep Date: | 7/12/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Antimony | <12.5 | 12.5 | 0 | 0 | | | | 0 | 10 | |
| Arsenic | <25.0 | 25.0 | 0 | 6.683 | | | | 0 | 10 | |
| Barium | 52.3 | 50.0 | 0 | 52.51 | | | | 0.378 | 10 | |
| Beryllium | <5.00 | 5.00 | 0 | 0 | | | | 0 | 10 | |
| Cadmium | <5.00 | 5.00 | 0 | 0 | | | | 0 | 10 | |
| Chromium | <25.0 | 25.0 | 0 | 0 | | | | 0 | 10 | |
| Cobalt | <25.0 | 25.0 | 0 | 0 | | | | 0 | 10 | |
| Lead | <5.00 | 5.00 | 0 | 0.9860 | | | | 0 | 10 | |
| Lithium | <50.0 | 50.0 | 0 | 7.375 | | | | 0 | 10 | |
| Magnesium | 10700 | 1500 | 0 | 10570 | | | | 1.14 | 10 | |
| Molybdenum | <25.0 | 25.0 | 0 | 8.515 | | | | 0 | 10 | |
| Potassium | 1050 | 1500 | 0 | 1046 | | | | 0.734 | 10 | |
| Selenium | <25.0 | 25.0 | 0 | 0 | | | | 0 | 10 | |
| Thallium | <7.50 | 7.50 | 0 | 0 | | | | 0 | 10 | |

| Sample ID | 1707057-06A PDS | Batch ID: | 81372 | TestNo: | SW6020A | Units: | µg/L | | | |
|------------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|------|----------|------|
| SampType: | PDS | Run ID: | ICP-MS4_170714A | Analysis Date: | 7/14/2017 3:32:00 PM | Prep Date: | 7/12/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Antimony | 193 | 2.50 | 200.0 | 0 | 96.4 | 80 | 120 | | | |
| Arsenic | 210 | 5.00 | 200.0 | 6.683 | 102 | 80 | 120 | | | |
| Barium | 253 | 10.0 | 200.0 | 52.51 | 100 | 80 | 120 | | | |
| Beryllium | 203 | 1.00 | 200.0 | 0 | 101 | 80 | 120 | | | |
| Cadmium | 199 | 1.00 | 200.0 | 0 | 99.7 | 80 | 120 | | | |
| Chromium | 213 | 5.00 | 200.0 | 0 | 107 | 80 | 120 | | | |
| Cobalt | 210 | 5.00 | 200.0 | 0 | 105 | 80 | 120 | | | |
| Lead | 200 | 1.00 | 200.0 | 0.9860 | 99.3 | 80 | 120 | | | |
| Lithium | 207 | 10.0 | 200.0 | 7.375 | 99.9 | 80 | 120 | | | |
| Magnesium | 14700 | 300 | 5000 | 10570 | 83.4 | 80 | 120 | | | |
| Molybdenum | 197 | 5.00 | 200.0 | 8.515 | 94.1 | 80 | 120 | | | |
| Potassium | 5980 | 300 | 5000 | 1046 | 98.7 | 80 | 120 | | | |
| Selenium | 203 | 5.00 | 200.0 | 0 | 101 | 80 | 120 | | | |
| Thallium | 205 | 1.50 | 200.0 | 0 | 103 | 80 | 120 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1707057
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170714A

| | | | | | | | |
|-----------|----------------|-----------|-----------------|----------------|----------------------|------------|-----------|
| Sample ID | 1707057-06A MS | Batch ID: | 81372 | TestNo: | SW6020A | Units: | µg/L |
| SampType: | MS | Run ID: | ICP-MS4_170714A | Analysis Date: | 7/14/2017 3:34:00 PM | Prep Date: | 7/12/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 201 | 2.50 | 200.0 | 0 | 100 | 80 | 120 | | | |
| Arsenic | 210 | 5.00 | 200.0 | 6.683 | 102 | 80 | 120 | | | |
| Barium | 252 | 10.0 | 200.0 | 52.51 | 99.6 | 80 | 120 | | | |
| Beryllium | 200 | 1.00 | 200.0 | 0 | 99.8 | 80 | 120 | | | |
| Cadmium | 196 | 1.00 | 200.0 | 0 | 98.2 | 80 | 120 | | | |
| Chromium | 205 | 5.00 | 200.0 | 0 | 102 | 80 | 120 | | | |
| Cobalt | 205 | 5.00 | 200.0 | 0 | 102 | 80 | 120 | | | |
| Lead | 201 | 1.00 | 200.0 | 0.9860 | 100 | 80 | 120 | | | |
| Lithium | 206 | 10.0 | 200.0 | 7.375 | 99.3 | 80 | 120 | | | |
| Magnesium | 15400 | 300 | 5000 | 10570 | 96.3 | 80 | 120 | | | |
| Molybdenum | 201 | 5.00 | 200.0 | 8.515 | 96.3 | 80 | 120 | | | |
| Potassium | 6170 | 300 | 5000 | 1046 | 103 | 80 | 120 | | | |
| Selenium | 202 | 5.00 | 200.0 | 0 | 101 | 80 | 120 | | | |
| Thallium | 208 | 1.50 | 200.0 | 0 | 104 | 80 | 120 | | | |

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|
| Sample ID | 1707057-06A MSD | Batch ID: | 81372 | TestNo: | SW6020A | Units: | µg/L |
| SampType: | MSD | Run ID: | ICP-MS4_170714A | Analysis Date: | 7/14/2017 3:36:00 PM | Prep Date: | 7/12/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | 202 | 2.50 | 200.0 | 0 | 101 | 80 | 120 | 0.801 | 15 | |
| Arsenic | 213 | 5.00 | 200.0 | 6.683 | 103 | 80 | 120 | 1.35 | 15 | |
| Barium | 257 | 10.0 | 200.0 | 52.51 | 102 | 80 | 120 | 2.11 | 15 | |
| Beryllium | 202 | 1.00 | 200.0 | 0 | 101 | 80 | 120 | 0.997 | 15 | |
| Cadmium | 199 | 1.00 | 200.0 | 0 | 99.3 | 80 | 120 | 1.07 | 15 | |
| Chromium | 208 | 5.00 | 200.0 | 0 | 104 | 80 | 120 | 1.39 | 15 | |
| Cobalt | 208 | 5.00 | 200.0 | 0 | 104 | 80 | 120 | 1.79 | 15 | |
| Lead | 202 | 1.00 | 200.0 | 0.9860 | 101 | 80 | 120 | 0.652 | 15 | |
| Lithium | 208 | 10.0 | 200.0 | 7.375 | 100 | 80 | 120 | 0.864 | 15 | |
| Magnesium | 15600 | 300 | 5000 | 10570 | 99.8 | 80 | 120 | 1.14 | 15 | |
| Molybdenum | 203 | 5.00 | 200.0 | 8.515 | 97.4 | 80 | 120 | 1.08 | 15 | |
| Potassium | 6210 | 300 | 5000 | 1046 | 103 | 80 | 120 | 0.625 | 15 | |
| Selenium | 206 | 5.00 | 200.0 | 0 | 103 | 80 | 120 | 1.63 | 15 | |
| Thallium | 208 | 1.50 | 200.0 | 0 | 104 | 80 | 120 | 0.064 | 15 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1707057
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170718A

The QC data in batch 81442 applies to the following samples: 1707057-01B, 1707057-02B, 1707057-03B, 1707057-04B, 1707057-05B, 1707057-06B, 1707057-07B

Sample ID **MB-81442** Batch ID: **81442** TestNo: **SW6020A** Units: **µg/L**
 SampType: **MBLK** Run ID: **ICP-MS4_170718A** Analysis Date: **7/18/2017 11:08:00 AM** Prep Date: **7/17/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Lithium | <10.0 | 10.0 | | | | | | | | |
| Molybdenum | <5.00 | 5.00 | | | | | | | | |

Sample ID **LCS-81442** Batch ID: **81442** TestNo: **SW6020A** Units: **µg/L**
 SampType: **LCS** Run ID: **ICP-MS4_170718A** Analysis Date: **7/18/2017 11:10:00 AM** Prep Date: **7/17/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Lithium | 202 | 10.0 | 200.0 | 0 | 101 | 80 | 120 | | | |
| Molybdenum | 198 | 5.00 | 200.0 | 0 | 98.8 | 80 | 120 | | | |

Sample ID **LCSD-81442** Batch ID: **81442** TestNo: **SW6020A** Units: **µg/L**
 SampType: **LCSD** Run ID: **ICP-MS4_170718A** Analysis Date: **7/18/2017 11:12:00 AM** Prep Date: **7/17/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| Lithium | 208 | 10.0 | 200.0 | 0 | 104 | 80 | 120 | 2.64 | 15 | |
| Molybdenum | 199 | 5.00 | 200.0 | 0 | 99.3 | 80 | 120 | 0.505 | 15 | |

Sample ID **1707057-06B SD** Batch ID: **81442** TestNo: **SW6020A** Units: **µg/L**
 SampType: **SD** Run ID: **ICP-MS4_170718A** Analysis Date: **7/18/2017 11:18:00 AM** Prep Date: **7/17/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Lithium | <50.0 | 50.0 | 0 | 7.002 | | | | 0 | 10 | |
| Molybdenum | <25.0 | 25.0 | 0 | 8.622 | | | | 0 | 10 | |

Sample ID **1707057-06B PDS** Batch ID: **81442** TestNo: **SW6020A** Units: **µg/L**
 SampType: **PDS** Run ID: **ICP-MS4_170718A** Analysis Date: **7/18/2017 11:37:00 AM** Prep Date: **7/17/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Lithium | 198 | 10.0 | 200.0 | 7.002 | 95.3 | 80 | 120 | | | |
| Molybdenum | 200 | 5.00 | 200.0 | 8.622 | 95.9 | 80 | 120 | | | |

Sample ID **1707057-06B MS** Batch ID: **81442** TestNo: **SW6020A** Units: **µg/L**
 SampType: **MS** Run ID: **ICP-MS4_170718A** Analysis Date: **7/18/2017 11:39:00 AM** Prep Date: **7/17/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Dissolved Lithium | 196 | 10.0 | 200.0 | 7.002 | 94.5 | 80 | 120 | | | |
| Dissolved Molybdenum | 204 | 5.00 | 200.0 | 8.622 | 97.6 | 80 | 120 | | | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1707057
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170718A

| Sample ID | 1707057-06B MSD | Batch ID: | 81442 | TestNo: | SW6020A | Units: | µg/L | | | |
|----------------------|-----------------|-----------|-----------------|----------------|-----------------------|------------|-----------|-------|----------|------|
| SampType: | MSD | Run ID: | ICP-MS4_170718A | Analysis Date: | 7/18/2017 11:41:00 AM | Prep Date: | 7/17/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Dissolved Lithium | 199 | 10.0 | 200.0 | 7.002 | 95.8 | 80 | 120 | 1.36 | 15 | |
| Dissolved Molybdenum | 204 | 5.00 | 200.0 | 8.622 | 97.9 | 80 | 120 | 0.288 | 15 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL

DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1707057
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_170713B

The QC data in batch 81394 applies to the following samples: 1707057-01C, 1707057-02C, 1707057-03C, 1707057-04C, 1707057-05C, 1707057-06C, 1707057-07C

| | | | |
|---------------------------|---------------------------------|---|------------------------------|
| Sample ID MB-81394 | Batch ID: 81394 | TestNo: M2320 B | Units: mg/L @ pH 4.31 |
| SampType: MBLK | Run ID: TITRATOR_170713B | Analysis Date: 7/13/2017 10:29:00 AM | Prep Date: 7/13/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | <20.0 | 20.0 | | | | | | | | |
| Alkalinity, Carbonate (As CaCO3) | <20.0 | 20.0 | | | | | | | | |
| Alkalinity, Hydroxide (As CaCO3) | <20.0 | 20.0 | | | | | | | | |
| Alkalinity, Total (As CaCO3) | <20.0 | 20.0 | | | | | | | | |

| | | | |
|----------------------------|---------------------------------|---|------------------------------|
| Sample ID LCS-81394 | Batch ID: 81394 | TestNo: M2320 B | Units: mg/L @ pH 3.99 |
| SampType: LCS | Run ID: TITRATOR_170713B | Analysis Date: 7/13/2017 10:33:00 AM | Prep Date: 7/13/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Total (As CaCO3) | 53.1 | 20.0 | 50.00 | 0 | 106 | 74 | 129 | | | |

| | | | |
|----------------------------------|---------------------------------|---|------------------------------|
| Sample ID 1707057-06C-DUP | Batch ID: 81394 | TestNo: M2320 B | Units: mg/L @ pH 4.51 |
| SampType: DUP | Run ID: TITRATOR_170713B | Analysis Date: 7/13/2017 11:49:00 AM | Prep Date: 7/13/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | 237 | 20.0 | 0 | 243.5 | | | | 2.83 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | <20.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | <20.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | 237 | 20.0 | 0 | 243.5 | | | | 2.83 | 20 | |

| | | | |
|----------------------------------|---------------------------------|---|------------------------------|
| Sample ID 1707073-01D-DUP | Batch ID: 81394 | TestNo: M2320 B | Units: mg/L @ pH 4.44 |
| SampType: DUP | Run ID: TITRATOR_170713B | Analysis Date: 7/13/2017 12:15:00 PM | Prep Date: 7/13/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | 53.9 | 20.0 | 0 | 61.80 | | | | 13.7 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | 72.4 | 20.0 | 0 | 73.80 | | | | 1.92 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | <20.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | 126 | 20.0 | 0 | 135.6 | | | | 7.10 | 20 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

2609 North River Road, Port Allen, Louisiana 70767
(800) 401-4277 -- FAX (225) 381-2996



ARS International, LLC

Laboratory Analysis Report

ARS1-17-02104

Prepared for:

B-Environmental

**Kevin Baros
1606 East Brazos Street
Suite D
Victoria, TX 77901**

**dbenviro@suddenlinkmail.com; cbenviro@suddenlinkmail.com
swbenviro@suddenlinkmail.com**

**Phone: 361-572-8224
Fax: 361-572-4115**

Project Manager Review

Management Review

Notes: ARS International, LLC assumes no liability for the use or the interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

Contact Person: Questions regarding this analytical report should be addressed to:

**Project Manager
ProjectManagers@amrad.com**

**Phone: 225.381.2991
Fax: 225.381.2996**



LELAP Cert# 01949



2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-02104

Request or PO Number: N/A

Client Sample ID: S171911556 (Batch 57535)

ARS Sample ID: ARS1-17-02104-001

Sample Collection Date: 07/10/17

Date Received: 07/14/17

Sample Matrix: Aqueous

Report Date: 08/08/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.269 | 0.140 | 0.143 | 0.054 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 08/07/17 8:05 | CTRAMEL | 109% |
| Ra-228 | 0.056 | 0.575 | 1.033 | 0.479 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/31/17 12:33 | CTRAMEL | 109% |

Project Manager Review

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1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-02104

Request or PO Number: N/A

Client Sample ID: S17191155B (Batch 57535)

ARS Sample ID: ARS1-17-02104-002

Sample Collection Date: 07/10/17

Date Received: 07/14/17

Sample Matrix: Aqueous

Report Date: 08/08/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.085 | 0.126 | 0.214 | 0.083 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 08/07/17 8:05 | CTRAMEL | 76% |
| Ra-228 | 0.984 | 0.948 | 1.539 | 0.718 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/31/17 12:33 | CTRAMEL | 75% |

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Project Manager Review

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1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-02104

Client Sample ID: S17191155C (Batch 57535)

Sample Collection Date: 07/10/17

Sample Matrix: Aqueous

Percent Solids: N/A

Request or PO Number: N/A

ARS Sample ID: ARS1-17-02104-003

Date Received: 07/14/17

Report Date: 08/08/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.274 | 0.176 | 0.236 | 0.098 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 08/07/17 8:05 | CTRAMEL | 83% |
| Ra-228 | 0.530 | 0.816 | 1.382 | 0.643 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/31/17 12:33 | CTRAMEL | 81% |

Project Manager Review

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LELAP Certificate# 01949



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1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-02104

Client Sample ID: S17191155D (Batch 57535)

Sample Collection Date: 07/10/17

Sample Matrix: Aqueous

Percent Solids: N/A

Request or PO Number: N/A

ARS Sample ID: ARS1-17-02104-004

Date Received: 07/14/17

Report Date: 08/08/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.198 | 0.163 | 0.244 | 0.103 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 08/07/17 8:05 | CTRAMEL | 98% |
| Ra-228 | 1.471 | 0.796 | 1.157 | 0.538 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 07/31/17 12:33 | CTRAMEL | 102% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-02104

Request or PO Number: N/A

Client Sample ID: S17191155E (Batch 57535)

ARS Sample ID: ARS1-17-02104-005

Sample Collection Date: 07/10/17

Date Received: 07/14/17

Sample Matrix: Aqueous

Report Date: 08/08/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.418 | 0.192 | 0.209 | 0.086 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 08/07/17 8:05 | CTRAMEL | 104% |
| Ra-228 | 0.387 | 0.645 | 1.099 | 0.510 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/31/17 12:33 | CTRAMEL | 110% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-02104

Request or PO Number: N/A

Client Sample ID: S17191155F (Batch 57535)

ARS Sample ID: ARS1-17-02104-006

Sample Collection Date: 07/10/17

Date Received: 07/14/17

Sample Matrix: Aqueous

Report Date: 08/08/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.139 | 0.123 | 0.179 | 0.071 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 08/07/17 8:05 | CTRAMEL | 107% |
| Ra-228 | 0.749 | 0.758 | 1.236 | 0.574 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/31/17 12:33 | CTRAMEL | 94% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-02104

Client Sample ID: S17191155G

Sample Collection Date: 07/10/17

Sample Matrix: Aqueous

Percent Solids: N/A

Request or PO Number: N/A

ARS Sample ID: ARS1-17-02104-007

Date Received: 07/14/17

Report Date: 08/08/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.259 | 0.143 | 0.160 | 0.062 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 08/07/17 8:05 | CTRAMEL | 104% |
| Ra-228 | -0.153 | 0.974 | 1.751 | 0.827 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/31/17 12:33 | CTRAMEL | 80% |

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QC Results Report

2609 North River Road, Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

Sample Delivery Group: ARS1-17-02104

Laboratory Control Sample Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | LCS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|----------------------|
| ARS1-B17-01523 | LCS | RA-226 | 23.310 | 3.780 | 0.118 | 27.595 | N/A | pCi/L | ARS-010/EPA 903 | 8/7/17 10:04 | CT | 84 | 75%-125% |
| ARS1-B17-01523 | LCS | RA-228 | 39.236 | 6.563 | 1.261 | 39.784 | N/A | pCi/L | ARS-010/EPA 904 | 7/31/17 14:33 | CT | 99 | 75%-125% |

Blank Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|
| ARS1-B17-01523 | MBL | RA-226 | 0.067 | 0.063 | 0.094 | NA | U | pCi/L | ARS-010/EPA 903 | 8/7/17 10:04 | CT |
| ARS1-B17-01523 | MBL | RA-228 | -0.042 | 0.309 | 0.565 | NA | U | pCi/L | ARS-010/EPA 904 | 7/31/17 14:33 | CT |

RER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | RER | RER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01523 | LCSD | RA-226 | 23.310 | 3.780 | 22.566 | 3.656 | N/A | pCi/L | ARS-010/EPA 903 | 8/7/17 10:04 | CT | 0.10 | < 1 |
| ARS1-B17-01523 | LCSD | RA-228 | 39.236 | 6.563 | 37.087 | 6.165 | N/A | pCi/L | ARS-010/EPA 904 | 7/31/17 14:33 | CT | 0.17 | < 1 |

DER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | DER | DER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01523 | LCSD | RA-226 | 23.310 | 3.780 | 22.566 | 3.656 | N/A | pCi/L | ARS-010/EPA 903 | 8/7/17 10:04 | CT | 0.14 | < 3 |
| ARS1-B17-01523 | LCSD | RA-228 | 39.236 | 6.563 | 37.087 | 6.165 | N/A | pCi/L | ARS-010/EPA 904 | 7/31/17 14:33 | CT | 0.24 | < 3 |

Matrix Spike

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | MS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|---------------------|
| ARS1-B17-01523 | MS | Ra-226 | 54.412 | 8.768 | 0.176 | 55.094 | N/A | pCi/L | ARS-010/EPA 903 | 8/7/17 10:04 | CT | 99 | 60%-140% |
| ARS1-B17-01523 | MS | Ra-228 | 38.589 | 6.606 | 1.482 | 51.130 | N/A | pCi/L | ARS-010/EPA 904 | 7/31/17 14:33 | CT | 75 | 60%-140% |
| ARS1-B17-01523 | MSD | Ra-226 | 43.895 | 7.099 | 0.156 | 55.309 | N/A | pCi/L | ARS-010/EPA 903 | 8/7/17 10:04 | CT | 79 | 60%-140% |
| ARS1-B17-01523 | MSD | Ra-228 | 39.000 | 6.690 | 1.837 | 51.434 | N/A | pCi/L | ARS-010/EPA 904 | 7/31/17 14:33 | CT | 76 | 60%-140% |

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Project Manager Review

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LELAP Certificate# 01949

NELAP Certificate # E87558



2609 North River Road • Port Allen, Louisiana 70767

1 (800) 401-4277 • Fax (225) 381-2996

Notes (Case Narrative):

Comments:

- 1.0) All MDA/MDC values are calculated on a sample specific basis.
- 2.0) Soil and Sludge analysis are reported on a wet basis or an as received basis unless otherwise indicated.
- 3.0) Data in this report are within the limits of uncertainty specified in the reference method unless otherwise specified.
- 4.0) Modified analysis procedures are procedures that are modified to meet the certain specifications. An example may be the use of a water method to analyze a solid matrix due to the lack of an officially recognized procedure for the analysis of the solid matrix. Modified analyses are indicated by the subsequent addition of "m" to the procedure number (i.e. 900.0M).
- 5.0) Total activity is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring radioactive decay chains and other prominent radioactive nuclides. Total activity may be lower than the actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not representative of nuclides that emit solely alpha or beta particles.
- 6.0) Ra-228 is determined via secular equilibrium with its daughter, Actinium 228 (Gamma Spectroscopy only).
- 7.0) U-238 is determined via secular equilibrium with its daughter, Thorium 234 (Gamma Spectroscopy only).
- 8.0) All gamma spectroscopy was performed utilizing high purity germanium detectors (HPGe).
- 9.0) ARS makes every attempt to match sample density to calibrated density; however, in some cases, it is not practical or possible to do so and data results may be affected (Gamma Spectroscopy only).
- 10.0) Gamma spectroscopy results are calculated values based on the ORTEC® GammaVision ENV32 Analysis Engine.
- 11.0) ACLASS DOD and ISO 17025 certification applies only to the following analytes and methods: Gross Alpha and Gross Beta (EPA 900, SM7110B&C, SW846 9310); Radium 226 (EPA 903, EPA 903.1, SM 7500 Ra-B, SW846 9315); Radium 228 (EPA 904, SM 7500 Ra-B SW846 9320); Iodine-131(EPA 901.1); Uranium by ICPMS (EPA 200.8); Strontium 89/90 (EPA 905, Eichrom SRW01, HASL 300 Sr-03-RC); Tritium (EPA 906, EPA 906M); Gamma Emitters (EPA 901.1, SM7120B, HASL 300 Ga-01-R); Americium-241, Curium 242/244, Plutonium 239/240 and 241, Thorium 228/230/232, Uranium 234/233 and 238 (Eichrom ACW03 VBS); Lead 210 (HASL 300 Pb-01-RC, Eichrom OTW01); Polonium 210 (HASL 300 Po-01-RC, HASL 300 Po-02-RC); Technetium-99 (Eichrom TCW02, Eichrom TCS01M).

Method References:

- 1.0) EPA 600/4-80-032; Prescribed Procedures for the Measurements of Radioactivity in Drinking Water, August 1980.
- 2.0) Standard Methods for the Examination of Water and Wastewater (On-Line Edition)
- 3.0) EPA SW-846; Test Methods for Evaluating Solid Waste, (On-Line edition)
- 4.0) EPA 600/4/79-020; Methods for Chemical Analysis of Water and Waste, March 1983.
- 5.0) HASL 300; The Procedures Manual of the Environmental Measurements Laboratory, Volume I, 28th Edition February, 1997.

Definitions:

| | |
|----------|---|
| CRDL | Contract Required Detection Limit |
| CSU | Combined Standard Uncertainty |
| DLC | Decision Level Concentration (ANSI N42.23) or critical level |
| DO | Duplicate Original |
| DUP | Method Duplicate |
| LCS/LCSD | Laboratory Control Sample/Laboratory Control Sample Duplicate |
| MDA | Minimum Detectable Activity |
| MDC | (Minimum Detectable Concentration) minimum concentration of the analyte that ARS can detect utilizing the specific analysis |
| MBL | Method Blank |
| MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| N/A | Not Applicable |
| NP | Not Provided |
| NR | Not Referenced |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |

Data Qualifiers:

| | |
|----|--|
| B | The analyte is found in both the associated method blank and the sample. This flag indicates probable blank contamination. |
| D | Sample analysis accomplished through dilution. |
| J | The reported result is an estimated value above the limit of detection but outside of quantitation range (e.g., matrix interference was observed). |
| Q | One or more quality control criteria failed (e.g., LCS recovery, surrogate spike recovery, or CCV recovery). |
| U | Activity is below the MDC, MDA, MDL, or LOD |
| N | The analyte is a tentatively identified compound using mass spectrometry or any non-customer requested compounds that are tentatively identified. |
| * | LCS/LCSD or MS/MSD fails RPD criteria. |
| S | Spike |
| SC | Subcontracted out to another qualified laboratory |
| H | Holding time exceeded |

ARS-059-010
Revision: 9.1
Revision Date: 03-14-2017

LELAP Cert# 01949

NELAP Cert# E87558

Environmental Laboratory, LLC
 1606 E Brazos Suite D Victoria, Texas 77901 Ph: (361) 572-8224

Chain Of Custody Rec Batch # **57535** TEMP UN-C: **111** Page **1** of **2**

Customer / Report Information Billing Information Check box if Billing is the same as Report Information
 Name: Coletto Creek Power Address: Attention: Rick Coleman PO #
 Address: P. O. Box 8; Fannin, TX 77960 Project: CCR Sampling Comments: Requested Analysis Completed By laboratory

| Sample Information | Collected | Matrix | Container | TYPE | NUMBER | Size | Preservative | Metals* | | | | | | Custody Seals Present |
|--------------------|-----------|--------|-----------|------|--------|------|--------------|------------------------------|-----------------------------|------------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------|
| | | | | | | | | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Yes <input type="checkbox"/> | No <input type="checkbox"/> | |

| | | | | | | | | | | | | | | | |
|--------|---------|----|----|---|---|-------|---|---|---|---|---|---|---|------------|------------|
| B1ack | 9-10-17 | WW | 1L | P | 6 | 250ml | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | X | S171911556 |
| MW-4 | 1 | WW | 1L | P | 6 | 500ml | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | S17191155B | |
| MW-8 | 1 | WW | 1L | P | 6 | 500ml | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | S17191155C | |
| BV-15 | 1 | WW | 1L | P | 6 | 500ml | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | S17191155D | |
| BV-21 | 1 | WW | 1L | P | 6 | 500ml | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | S17191155E | |
| BV-22 | 1 | WW | 1L | P | 6 | 500ml | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | S17191155F | |
| Drip 1 | 1 | WW | 1L | P | 6 | 500ml | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | S17191155G | |

Required Turnaround: Routine (6-10 Business days) Expedite / Rush: 1 Business Day 2 Business Days 3 Business Days 5 Business days Other _____

Surcharge will apply to RUSH TAY Authorized BY: _____

Relinquished By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____

Relinquished By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____

B Environmental Laboratory, LLC
 1606 Brazos Suite D, Victoria, Texas 77901, Ph: (361) 572-8224

Chain Of Custody Rec

Batch # **57535** TEMP UN-C: **11.1** Page **2** of **2**

Customer / Report Information: **Coletto Creek Power** Billing Information: Check box if Billing is the same as Report Information
 Name: **Coletto Creek Power** Address: **PO #**
 Attention: **Rick Coleman** Attention: **Richard.coleman@dmeq.com**
 Address: **P. O. Box 8; Fanning, TX 77960** Project: **CCR Sampling** Requested Analysis: **Completed by laboratory**
 Comments: **Phone: 361-788-5145** FAX: **109**
 EMAIL: **richard.coleman@dmeq.com** THERM ID# **3** TEMP CORR: **10.9**

| Sample Information | Client / Field Sample ID | Collected | | Matrix | Container | Preservative | Metals* | Cl, F*, SO4 | pH | TDS | Ra226 & Ra228 | Alk: Tot, Carb, BiCarb | Diss Li & Mo | Custody Seals Present |
|--------------------|--------------------------|-----------|------|--------|-----------|--------------|---------|-------------|----|-----|---------------|------------------------|--------------|-----------------------|
| | | Date | Time | | | | | | | | | | | |

Collected By: **RV-22 NS** 7-10-17 947 G WW 1L 500mL H2SO4 HNO3 NaOH HCL Na2SO3 H2O2 H3PO4 HCL Na2SO3

RV-22 - MSD 7-10-17 947 G WW 1L 500mL H2SO4 HNO3 NaOH HCL Na2SO3 H2O2 H3PO4 HCL Na2SO3

G WW 1L 500mL H2SO4 HNO3 NaOH HCL Na2SO3 H2O2 H3PO4 HCL Na2SO3

G WW 1L 500mL H2SO4 HNO3 NaOH HCL Na2SO3 H2O2 H3PO4 HCL Na2SO3

G WW 1L 500mL H2SO4 HNO3 NaOH HCL Na2SO3 H2O2 H3PO4 HCL Na2SO3

G WW 1L 500mL H2SO4 HNO3 NaOH HCL Na2SO3 H2O2 H3PO4 HCL Na2SO3

G WW 1L 500mL H2SO4 HNO3 NaOH HCL Na2SO3 H2O2 H3PO4 HCL Na2SO3

G WW 1L 500mL H2SO4 HNO3 NaOH HCL Na2SO3 H2O2 H3PO4 HCL Na2SO3

Required Turnaround: Routine (6-10 Business days) Expedite / Rush: 1 Business Day 2 Business Days 3 Business Days 5 Business Days Other

Surcharge will apply to RUSH/ATL Authorized BY: **Chris Volkowarp** Container Type: P=Plastic, G=Glass, V=Voa, O=Other Carrier ID: **1500**

Relinquished By: **[Signature]** Date: **7-10-17** Time: **1500**

Relinquished By: **[Signature]** Date: **7-10-17** Time: **1500**

BatchNo: 57623

SAMPLE REPORT



T104704328-17-14

Business

Coletto Creek Power - R Coleman
PO Box 8
Fannin TX 77960
Att: Rick Coleman



Laboratory

B Environmental, LLC.
1606 E Brazos, Suite D
Victoria TX 77901
ph. 361-572-8224

Reference Information

Project: CCR Sampling
Printed: Wednesday,
August 16, 2017

Re: Coletto Creek Power - R Coleman

Dear: Rick Coleman

Attached are the results for sample(s) received on 7/11/2017

The analytical results relate only to the samples tested.
All supporting quality data meets the requirements of NELAC unless noted in the case narrative section of the report.

This report contains 47 pages (including the cover page)

If you have any questions concerning this report, please do not hesitate to call (361) 572-8224 or Fax us at (361) 572-4115

Respectfully Submitted,

Kevin Baros
Laboratory Director



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B Environmental, LLC.
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BatchNo: 57623

Victoria TX 77901

Batch No:

Sample Receipt Checklist

Date Received:

Project Received By:

Login completed by:

Carrier Name

- YES NO Not Present
- YES NO Not Present
- YES NO Not Present
- YES NO
- YES NO
- YES NO
- YES NO
- YES NO
- YES NO
- YES NO
- YES NO >0 <6 °C On Ice
- YES NO No VOA Vials submitted
- YES NO Not Applicable

*TEMP pH Adjusted? Checked By

Any No and/or N/A (not applicable) response must be detailed in the comments section below.

Client contacted PersonContacted
Contacted by: Date Contacted:

Regarding

Comments

Corrective Action



B Environmental, LLC. 1606 E Brazos, Suite D Victoria TX 77901

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Sample Report Information



| | | | | | |
|------------|------------|------------|------|----------|--------|
| Sample ID: | S171921623 | Client ID: | PS-3 | Sampler: | Client |
|------------|------------|------------|------|----------|--------|

Client: Coletto Creek Power - R Coleman
 Study: Water

Batch No: 57623
 Sampled: 7/11/2017 9:07 AM

Project: CCR Sampling

Location: PS 3

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 48 | mg/L | EPA 300 | K Baros | 7/12/2017 21:00 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 168 | mg/L | SM 2320 B | | 7/13/2017 14:08 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/13/2017 14:08 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 168 | mg/L | SM 2320 B | | 7/13/2017 14:08 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.89 | mg/L | EPA 300 | K Baros | 7/12/2017 21:00 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.31 | SU | SM 4500-H+B | P Ryan | 7/11/2017 16:45 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 313 | mg/L | SM2540C | C Watts | 7/19/2017 16:15 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/18/2017 14:23 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 30 | mg/L | EPA 300 | K Baros | 7/12/2017 21:00 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 8/11/2017 8:03 | | | | | | <input checked="" type="checkbox"/> ARS International |



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1606 E Brazos, Suite D
Victoria TX 77901

BatchNo: 57623

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Sample Report Information



| | | | | | |
|-------------------|-------------------|-------------------|--------------|-----------------|---------------|
| Sample ID: | S17192162A | Client ID: | MW-11 | Sampler: | Client |
|-------------------|-------------------|-------------------|--------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman
Study: Water
Project: CCR Sampling
Location: MW #11
Notes:

Batch No: 57623
Sampled: 7/11/2017 8:50 AM
Type: Grab
Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 44 | mg/L | EPA 300 | K Baros | 7/12/2017 14:01 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 146 | mg/L | SM 2320 B | | 7/13/2017 14:12 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/13/2017 14:12 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 146 | mg/L | SM 2320 B | | 7/13/2017 14:12 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 1 | mg/L | EPA 300 | K Baros | 7/12/2017 14:01 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.36 | SU | SM 4500-H+B | P Ryan | 7/11/2017 16:45 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 603 | mg/L | SM2540C | C Watts | 7/19/2017 8:00 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/18/2017 14:25 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 42 | mg/L | EPA 300 | K Baros | 7/12/2017 14:01 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 8/11/2017 8:03 | | | | | | <input checked="" type="checkbox"/> ARS International |



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Sample Report Information



| | | | | | |
|-------------------|-------------------|-------------------|-------------|-----------------|---------------|
| Sample ID: | S17192162B | Client ID: | MW-9 | Sampler: | Client |
|-------------------|-------------------|-------------------|-------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman
Study: Water

Batch No: 57623
Sampled: 7/11/2017 10:47 AM

Project: CCR Sampling

Location: MW #9

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 64 | mg/L | EPA 300 | K Baros | 7/12/2017 14:39 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 134 | mg/L | SM 2320 B | | 7/13/2017 14:16 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/13/2017 14:16 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 134 | mg/L | SM 2320 B | | 7/13/2017 14:16 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 1.3 | mg/L | EPA 300 | K Baros | 7/12/2017 14:39 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.47 | SU | SM 4500-H+B | P Ryan | 7/11/2017 16:45 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 927 | mg/L | SM2540C | C Watts | 7/19/2017 8:00 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/18/2017 14:27 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 60 | mg/L | EPA 300 | K Baros | 7/12/2017 14:39 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 8/11/2017 8:03 | | | | | | <input checked="" type="checkbox"/> ARS International |



B Environmental, LLC.

BatchNo:

57623

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Sample Report Information



| | | | | | |
|-------------------|-------------------|-------------------|--------------|-----------------|---------------|
| Sample ID: | S17192162C | Client ID: | MW-9A | Sampler: | Client |
|-------------------|-------------------|-------------------|--------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman

Batch No: 57623

Study: Water

Sampled: 7/11/2017

10:09 AM

Project: CCR Sampling

Location: MW 9A

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 61 | mg/L | EPA 300 | K Baros | 7/12/2017 15:17 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 135 | mg/L | SM 2320 B | | 7/13/2017 14:20 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/13/2017 14:20 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 135 | mg/L | SM 2320 B | | 7/13/2017 14:20 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 1.3 | mg/L | EPA 300 | K Baros | 7/12/2017 15:17 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.39 | SU | SM 4500-H+B | P Ryan | 7/11/2017 16:45 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 860 | mg/L | SM2540C | C Watts | 7/19/2017 8:00 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/18/2017 14:29 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 62 | mg/L | EPA 300 | K Baros | 7/12/2017 15:17 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 8/11/2017 8:03 | | | | | <input checked="" type="checkbox"/> | ARS International |



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BatchNo: 57623

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Victoria TX 77901

Sample Report Information



| | | | | | |
|------------|------------|------------|-------|----------|--------|
| Sample ID: | S17192162D | Client ID: | MW-10 | Sampler: | Client |
|------------|------------|------------|-------|----------|--------|

Client: Coletto Creek Power - R Coleman
Study: Water

Batch No: 57623
Sampled: 7/11/2017 11:21 AM

Project: CCR Sampling

Location: MW #10

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 76 | mg/L | EPA 300 | K Baros | 7/12/2017 15:55 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 227 | mg/L | SM 2320 B | | 7/13/2017 14:27 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/13/2017 14:27 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 227 | mg/L | SM 2320 B | | 7/13/2017 14:27 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.84 | mg/L | EPA 300 | K Baros | 7/12/2017 15:55 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.31 | SU | SM 4500-H+B | P Ryan | 7/11/2017 16:45 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 617 | mg/L | SM2540C | C Watts | 7/19/2017 8:00 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/18/2017 13:42 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 88 | mg/L | EPA 300 | K Baros | 7/12/2017 15:55 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 8/11/2017 8:03 | | | | | <input checked="" type="checkbox"/> | ARS International |



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Sample Report Information



| | | | |
|------------------------------|--------------------------|-----------------|---------------|
| Sample ID: S17192162E | Client ID: MW-10A | Sampler: | Client |
|------------------------------|--------------------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman

Batch No: 57623

Study: Water

Sampled: 7/11/2017

2:54 PM

Project: CCR Sampling

Location: MW 10A

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 349 | mg/L | EPA 300 | K Baros | 7/12/2017 19:06 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 329 | mg/L | SM 2320 B | | 7/13/2017 14:45 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/13/2017 14:45 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 329 | mg/L | SM 2320 B | | 7/13/2017 14:45 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.46 | mg/L | EPA 300 | K Baros | 7/12/2017 19:06 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 6.85 | SU | SM 4500-H+B | P Ryan | 7/11/2017 16:45 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 720 | mg/L | SM2540C | C Watts | 7/19/2017 8:00 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/18/2017 14:31 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 86 | mg/L | EPA 300 | K Baros | 7/12/2017 19:06 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 8/11/2017 8:03 | | | | | <input checked="" type="checkbox"/> | ARS Intemational |



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Sample Report Information



| | | | | | |
|------------|------------|------------|------|----------|--------|
| Sample ID: | S17192162F | Client ID: | MW-5 | Sampler: | Client |
|------------|------------|------------|------|----------|--------|

Client: Coletto Creek Power - R Coleman

Batch No: 57623

Study: Water

Sampled: 7/11/2017

1:16 PM

Project: CCR Sampling

Location: MW #5

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 138 | mg/L | EPA 300 | K Baros | 7/12/2017 19:44 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 288 | mg/L | SM 2320 B | | 7/13/2017 14:56 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/13/2017 14:56 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 288 | mg/L | SM 2320 B | | 7/13/2017 14:56 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.52 | mg/L | EPA 300 | K Baros | 7/12/2017 19:44 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 6.99 | SU | SM 4500-H+B | P Ryan | 7/11/2017 16:45 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 797 | mg/L | SM2540C | C Watts | 7/19/2017 16:15 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/18/2017 14:33 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 184 | mg/L | EPA 300 | K Baros | 7/12/2017 19:44 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 8/11/2017 8:03 | | | | | <input checked="" type="checkbox"/> | ARS International |



B Environmental, LLC.

BatchNo: 57623

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Sample Report Information



| | | | | | |
|------------|------------|------------|-------|----------|--------|
| Sample ID: | S17192162G | Client ID: | Dup 2 | Sampler: | Client |
|------------|------------|------------|-------|----------|--------|

Client: Coletto Creek Power - R Coleman

Batch No: 57623

Study: Water

Sampled: 7/11/2017

12:00 AM

Project: CCR Sampling

Location: Dup

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 43 | mg/L | EPA 300 | K Baros | 7/12/2017 20:22 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 143 | mg/L | SM 2320 B | | 7/13/2017 15:00 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/13/2017 15:00 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 143 | mg/L | SM 2320 B | | 7/13/2017 15:00 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 1 | mg/L | EPA 300 | K Baros | 7/12/2017 20:22 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.66 | SU | SM 4500-H+B | P Ryan | 7/11/2017 16:45 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 320 | mg/L | SM2540C | C Watts | 7/19/2017 16:15 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/18/2017 14:35 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 42 | mg/L | EPA 300 | K Baros | 7/12/2017 20:22 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 8/14/2017 8:21 | | | | | <input checked="" type="checkbox"/> | ARS International |



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BatchNo: 57623

Victoria TX 77901



QA Summary Report

| Parameter | ID | Result | Ref Value | Amt Added | LOQ | Qualifier | Control | Flag | Comments |
|--|------------|-----------|-----------|-----------|------|----------------|----------------|------|---|
| .Method Blank | | | | | | | | | |
| - Chloride, IC 7/12/2017 11:28 | Q172041251 | <1mg/L | 0 | | 1 | | 1 | | Blank Acceptable. |
| Fluoride, IC 7/12/2017 11:28 | Q172041251 | <0.25mg/L | 0 | 0.25 | | | 0.25 | | Blank Acceptable. |
| Solids, Total Dissolved 7/19/2017 16:15 | Q172051409 | <25mg/L | 0 | 10 | | | 25 | | Blank Acceptable. |
| Solids, Total Dissolved 7/19/2017 8:00 | Q172010929 | <25mg/L | 0 | 10 | | | 25 | | Blank Acceptable. |
| Sulfate, IC 7/12/2017 11:28 | Q172041251 | <1mg/L | 0 | | 1 | | 1 | | Blank Acceptable. |
| Duplicate | | | | | | | | | |
| pH (Standard Units) 7/11/2017 16:45 | Q171921715 | 7.32SU | 7.31 | | 2 | 0.1% | 20 | | Duplicate RPD Acceptable. |
| Solids, Total Dissolved 7/19/2017 8:00 | Q172010931 | 4150mg/L | 4110 | | 10 | 1.0% | 20 | | Duplicate RPD Acceptable. |
| Solids, Total Dissolved 7/19/2017 16:15 | Q172051411 | 547mg/L | 537 | | 10 | 1.8% | 20 | | Duplicate RPD Acceptable. |
| Laboratory Control Standard | | | | | | | | | |
| - Chloride, IC 7/12/2017 12:07 | Q172041253 | 24.89mg/L | 25 | | 1 | 99.6% 0.4% | 80 - 120 20 | | Standard Recovery Acceptable. Standard RPD Acceptable. |
| Fluoride, IC 7/12/2017 12:07 | Q172041253 | 1.94mg/L | 2 | 0.25 | | 97.0% 3.0% | 80 - 120 20 | | Standard Recovery Acceptable. Standard RPD Acceptable. |
| pH (Standard Units) 7/11/2017 16:45 | Q171921714 | 7.02SU | 7 | | 2 | 100.3% 0.3% | 80 - 120 20 | | Standard Recovery Acceptable. Standard RPD Acceptable. |
| Sulfate, IC 7/12/2017 12:07 | Q172041253 | 24.95mg/L | 25 | | 1 | 99.8% 0.2% | 80 - 120 20 | | Standard Recovery Acceptable. Standard RPD Acceptable. |
| Matrix Spike | | | | | | | | | |
| - Chloride, IC 7/12/2017 16:33 | Q172041254 | 92.7mg/L | 93.4 | 25 | 1 | 97.2% 0.8% | 80 - 120 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Fluoride, IC 7/12/2017 16:33 | Q172041254 | 2.62mg/L | 2.76 | 2 | 0.25 | 93.0% 5.2% | 80 - 120 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Sulfate, IC 7/12/2017 16:33 | Q172041254 | 103.6mg/L | 104.7 | 25 | 1 | 95.6% 1.1% | 70 - 130 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Matrix Spike Dup | | | | | | | | | |
| - Chloride, IC 7/12/2017 17:11 | Q17204125A | 91.9mg/L | 93.4 | 25 | 1 | 94.0% 1.6% | 80 - 120 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Fluoride, IC 7/12/2017 17:11 | Q17204125A | 2.63mg/L | 2.76 | 2 | 0.25 | 93.5% 4.8% | 80 - 120 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Sulfate, IC 7/12/2017 17:11 | Q17204125A | 102.5mg/L | 104.7 | 25 | 1 | 91.2% 2.1% | 70 - 130 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |







B Environmental, LLC. 1606 E Brazos, Suite D Victoria TX 77901

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B Environmental, LLC.
1606 E Brazos, Suite D
Victoria TX 77901

BatchNo: 57623

Flag and Qualifier Legend

| | | |
|--|--|---|
|  <i>Negative - Result Detected</i> | <i>MDL = Method Detection Limit</i> | <i>DF = Dilution Factor</i> |
|  <i>Caution - Problem Detected</i> | <i>LOQ = Limit of Quantitation</i> | <i>j = Analyte detected between MDL and LOQ</i> |
|  <i>Warning - Null Value</i> | <i>S = surrogate standard out of limit</i> | <i>H = sample out of hold time</i> |
|  MS, MSD, RPD- Failure may occur due to matrix interference, data released per QA plan | | |

Wednesday, August 16, 2017

B Environmental - LDMS QA Report Summary

Note:

THANK YOU!



B Environmental, LLC.

1606 E Brazos, Suite D

Victoria TX 77901

This report shall not be reproduced except in full, without written approval of the laboratory

DHL Analytical, Inc.

Date: 24-Jul-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Lab Order: 1707095

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition and Standard Methods.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives except where noted in the following. For Total Metals Analysis, the recoveries of Calcium and Boron for the Matrix Spike and Matrix Spike Duplicate (1707095-05 MS/MSD) were outside of the method control limits. These are flagged accordingly in the QC Summary Report. These analytes were within method control limits in the associated LCS. No further corrective action was taken.

For Total/Dissolved Metals Analysis, the results of Dissolved Lithium/Molybdenum for all of the samples were slightly higher than the results of Total Lithium/Molybdenum. The results were within acceptable analytical variation limits. No further corrective action was taken.

DHL Analytical, Inc.

Date: 24-Jul-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR Sampling (57623)
Lab Order: 1707095

Client Sample ID: PS-3
Lab ID: 1707095-01
Alternate ID: S171921623
Collection Date: 07/11/17 09:07 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|--------|----------------|-------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 9.42 | 5.00 | 10.0 | J | µg/L | 1 | 07/18/17 11:59 AM |
| Dissolved Molybdenum | 4.69 | 2.00 | 5.00 | J | µg/L | 1 | 07/18/17 11:59 AM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <2.50 | 0.800 | 2.50 | | µg/L | 1 | 07/18/17 02:23 PM |
| Arsenic | 8.75 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 02:23 PM |
| Barium | 126 | 3.00 | 10.0 | | µg/L | 1 | 07/18/17 02:23 PM |
| Beryllium | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/18/17 02:23 PM |
| Boron | 1730 | 100 | 300 | | µg/L | 10 | 07/19/17 02:43 PM |
| Cadmium | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/18/17 02:23 PM |
| Calcium | 48100 | 1000 | 3000 | | µg/L | 10 | 07/19/17 02:43 PM |
| Chromium | 2.88 | 2.00 | 5.00 | J | µg/L | 1 | 07/18/17 02:23 PM |
| Cobalt | <5.00 | 3.00 | 5.00 | | µg/L | 1 | 07/18/17 02:23 PM |
| Lead | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/18/17 02:23 PM |
| Lithium | 7.92 | 5.00 | 10.0 | J | µg/L | 1 | 07/18/17 02:23 PM |
| Magnesium | 3510 | 100 | 300 | | µg/L | 1 | 07/18/17 02:23 PM |
| Molybdenum | 4.65 | 2.00 | 5.00 | J | µg/L | 1 | 07/18/17 02:23 PM |
| Potassium | 2250 | 100 | 300 | | µg/L | 1 | 07/18/17 02:23 PM |
| Selenium | <5.00 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 02:23 PM |
| Sodium | 67900 | 1000 | 3000 | | µg/L | 10 | 07/19/17 02:43 PM |
| Thallium | <1.50 | 0.500 | 1.50 | | µg/L | 1 | 07/18/17 02:23 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.200 | 0.0800 | 0.200 | | µg/L | 1 | 07/24/17 10:06 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 168 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/13/17 02:08 PM |
| Alkalinity, Carbonate (As CaCO3) | <20.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/13/17 02:08 PM |
| Alkalinity, Hydroxide (As CaCO3) | <20.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/13/17 02:08 PM |
| Alkalinity, Total (As CaCO3) | 168 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/13/17 02:08 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 24-Jul-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR Sampling (57623)
Lab Order: 1707095

Client Sample ID: MW-11
Lab ID: 1707095-02
Alternate ID: S17192162A
Collection Date: 07/11/17 08:50 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|--------|----------------|-------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 13.1 | 5.00 | 10.0 | | µg/L | 1 | 07/18/17 12:01 PM |
| Dissolved Molybdenum | 7.86 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 12:01 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <2.50 | 0.800 | 2.50 | | µg/L | 1 | 07/18/17 02:25 PM |
| Arsenic | 21.2 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 02:25 PM |
| Barium | 72.5 | 3.00 | 10.0 | | µg/L | 1 | 07/18/17 02:25 PM |
| Beryllium | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/18/17 02:25 PM |
| Boron | 1230 | 100 | 300 | | µg/L | 10 | 07/19/17 02:45 PM |
| Cadmium | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/18/17 02:25 PM |
| Calcium | 44700 | 1000 | 3000 | | µg/L | 10 | 07/19/17 02:45 PM |
| Chromium | 2.29 | 2.00 | 5.00 | J | µg/L | 1 | 07/18/17 02:25 PM |
| Cobalt | <5.00 | 3.00 | 5.00 | | µg/L | 1 | 07/18/17 02:25 PM |
| Lead | 0.827 | 0.300 | 1.00 | J | µg/L | 1 | 07/18/17 02:25 PM |
| Lithium | 12.0 | 5.00 | 10.0 | | µg/L | 1 | 07/18/17 02:25 PM |
| Magnesium | 3540 | 100 | 300 | | µg/L | 1 | 07/18/17 02:25 PM |
| Molybdenum | 7.65 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 02:25 PM |
| Potassium | 1530 | 100 | 300 | | µg/L | 1 | 07/18/17 02:25 PM |
| Selenium | <5.00 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 02:25 PM |
| Sodium | 62000 | 1000 | 3000 | | µg/L | 10 | 07/19/17 02:45 PM |
| Thallium | <1.50 | 0.500 | 1.50 | | µg/L | 1 | 07/18/17 02:25 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.200 | 0.0800 | 0.200 | | µg/L | 1 | 07/24/17 10:08 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 146 | 10.0 | 20.0 | | mg/L @ pH 4.48 | 1 | 07/13/17 02:12 PM |
| Alkalinity, Carbonate (As CaCO3) | <20.0 | 10.0 | 20.0 | | mg/L @ pH 4.48 | 1 | 07/13/17 02:12 PM |
| Alkalinity, Hydroxide (As CaCO3) | <20.0 | 10.0 | 20.0 | | mg/L @ pH 4.48 | 1 | 07/13/17 02:12 PM |
| Alkalinity, Total (As CaCO3) | 146 | 20.0 | 20.0 | | mg/L @ pH 4.48 | 1 | 07/13/17 02:12 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 24-Jul-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (57623)
Lab Order: 1707095

Client Sample ID: MW-9
Lab ID: 1707095-03
Alternate ID: S17192162B
Collection Date: 07/11/17 10:47 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|--------|----------------|-------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 5.60 | 5.00 | 10.0 | J | µg/L | 1 | 07/18/17 12:03 PM |
| Dissolved Molybdenum | 110 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 12:03 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <2.50 | 0.800 | 2.50 | | µg/L | 1 | 07/18/17 02:27 PM |
| Arsenic | 10.5 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 02:27 PM |
| Barium | 103 | 3.00 | 10.0 | | µg/L | 1 | 07/18/17 02:27 PM |
| Beryllium | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/18/17 02:27 PM |
| Boron | 3350 | 100 | 300 | | µg/L | 10 | 07/19/17 02:47 PM |
| Cadmium | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/18/17 02:27 PM |
| Calcium | 52100 | 1000 | 3000 | | µg/L | 10 | 07/19/17 02:47 PM |
| Chromium | 5.66 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 02:27 PM |
| Cobalt | 3.44 | 3.00 | 5.00 | J | µg/L | 1 | 07/18/17 02:27 PM |
| Lead | 1.24 | 0.300 | 1.00 | | µg/L | 1 | 07/18/17 02:27 PM |
| Lithium | 5.77 | 5.00 | 10.0 | J | µg/L | 1 | 07/18/17 02:27 PM |
| Magnesium | 6640 | 100 | 300 | | µg/L | 1 | 07/18/17 02:27 PM |
| Molybdenum | 105 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 02:27 PM |
| Potassium | 1180 | 100 | 300 | | µg/L | 1 | 07/18/17 02:27 PM |
| Selenium | <5.00 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 02:27 PM |
| Sodium | 61100 | 1000 | 3000 | | µg/L | 10 | 07/19/17 02:47 PM |
| Thallium | <1.50 | 0.500 | 1.50 | | µg/L | 1 | 07/18/17 02:27 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.200 | 0.0800 | 0.200 | | µg/L | 1 | 07/24/17 10:10 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 134 | 10.0 | 20.0 | | mg/L @ pH 4.48 | 1 | 07/13/17 02:16 PM |
| Alkalinity, Carbonate (As CaCO3) | <20.0 | 10.0 | 20.0 | | mg/L @ pH 4.48 | 1 | 07/13/17 02:16 PM |
| Alkalinity, Hydroxide (As CaCO3) | <20.0 | 10.0 | 20.0 | | mg/L @ pH 4.48 | 1 | 07/13/17 02:16 PM |
| Alkalinity, Total (As CaCO3) | 134 | 20.0 | 20.0 | | mg/L @ pH 4.48 | 1 | 07/13/17 02:16 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits Page 3 of 8

DHL Analytical, Inc.

Date: 24-Jul-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR Sampling (57623)
Lab Order: 1707095

Client Sample ID: MW-9A
Lab ID: 1707095-04
Alternate ID: S17192162C
Collection Date: 07/11/17 10:09 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|--------|----------------|-------|------|----------------|----|---------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | | | | Analyst: SP |
| Dissolved Lithium | 6.19 | 5.00 | 10.0 | J | µg/L | 1 | 07/18/17 12:05 PM |
| Dissolved Molybdenum | 72.4 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 12:05 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | | | | Analyst: SP |
| Antimony | <2.50 | 0.800 | 2.50 | | µg/L | 1 | 07/18/17 02:29 PM |
| Arsenic | 12.4 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 02:29 PM |
| Barium | 158 | 3.00 | 10.0 | | µg/L | 1 | 07/18/17 02:29 PM |
| Beryllium | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/18/17 02:29 PM |
| Boron | 3080 | 100 | 300 | | µg/L | 10 | 07/19/17 02:49 PM |
| Cadmium | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/18/17 02:29 PM |
| Calcium | 77300 | 1000 | 3000 | | µg/L | 10 | 07/19/17 02:49 PM |
| Chromium | 21.7 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 02:29 PM |
| Cobalt | 5.13 | 3.00 | 5.00 | | µg/L | 1 | 07/18/17 02:29 PM |
| Lead | 4.84 | 0.300 | 1.00 | | µg/L | 1 | 07/18/17 02:29 PM |
| Lithium | 7.54 | 5.00 | 10.0 | J | µg/L | 1 | 07/18/17 02:29 PM |
| Magnesium | 9240 | 100 | 300 | | µg/L | 1 | 07/18/17 02:29 PM |
| Molybdenum | 66.4 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 02:29 PM |
| Potassium | 1430 | 100 | 300 | | µg/L | 1 | 07/18/17 02:29 PM |
| Selenium | <5.00 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 02:29 PM |
| Sodium | 62700 | 1000 | 3000 | | µg/L | 10 | 07/19/17 02:49 PM |
| Thallium | <1.50 | 0.500 | 1.50 | | µg/L | 1 | 07/18/17 02:29 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | | | Analyst: AH |
| Mercury | <0.200 | 0.0800 | 0.200 | | µg/L | 1 | 07/24/17 10:13 AM |
| ALKALINITY | | M2320 B | | | | | Analyst: BTJ |
| Alkalinity, Bicarbonate (As CaCO3) | 135 | 10.0 | 20.0 | | mg/L @ pH 4.49 | 1 | 07/13/17 02:20 PM |
| Alkalinity, Carbonate (As CaCO3) | <20.0 | 10.0 | 20.0 | | mg/L @ pH 4.49 | 1 | 07/13/17 02:20 PM |
| Alkalinity, Hydroxide (As CaCO3) | <20.0 | 10.0 | 20.0 | | mg/L @ pH 4.49 | 1 | 07/13/17 02:20 PM |
| Alkalinity, Total (As CaCO3) | 135 | 20.0 | 20.0 | | mg/L @ pH 4.49 | 1 | 07/13/17 02:20 PM |

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 24-Jul-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR Sampling (57623)
Lab Order: 1707095

Client Sample ID: MW-10
Lab ID: 1707095-05
Alternate ID: S17192162D
Collection Date: 07/11/17 11:21 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|--------|----------------|-------|------|----------------|----|---------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | | | | Analyst: SP |
| Dissolved Lithium | 12.9 | 5.00 | 10.0 | | µg/L | 1 | 07/20/17 01:19 PM |
| Dissolved Molybdenum | 124 | 2.00 | 5.00 | | µg/L | 1 | 07/20/17 01:19 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | | | | Analyst: SP |
| Antimony | <2.50 | 0.800 | 2.50 | | µg/L | 1 | 07/18/17 01:42 PM |
| Arsenic | 14.9 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 01:42 PM |
| Barium | 50.8 | 3.00 | 10.0 | | µg/L | 1 | 07/18/17 01:42 PM |
| Beryllium | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/18/17 01:42 PM |
| Boron | 7990 | 200 | 600 | | µg/L | 20 | 07/19/17 02:39 PM |
| Cadmium | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/18/17 01:42 PM |
| Calcium | 49500 | 2000 | 6000 | | µg/L | 20 | 07/19/17 02:39 PM |
| Chromium | 4.56 | 2.00 | 5.00 | J | µg/L | 1 | 07/18/17 01:42 PM |
| Cobalt | <5.00 | 3.00 | 5.00 | | µg/L | 1 | 07/18/17 01:42 PM |
| Lead | 0.354 | 0.300 | 1.00 | J | µg/L | 1 | 07/18/17 01:42 PM |
| Lithium | 11.9 | 5.00 | 10.0 | | µg/L | 1 | 07/18/17 01:42 PM |
| Magnesium | 8700 | 100 | 300 | | µg/L | 1 | 07/18/17 01:42 PM |
| Molybdenum | 114 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 01:42 PM |
| Potassium | 848 | 100 | 300 | | µg/L | 1 | 07/18/17 01:42 PM |
| Selenium | <5.00 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 01:42 PM |
| Sodium | 127000 | 2000 | 6000 | | µg/L | 20 | 07/19/17 02:39 PM |
| Thallium | <1.50 | 0.500 | 1.50 | | µg/L | 1 | 07/18/17 01:42 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | | | Analyst: AH |
| Mercury | <0.200 | 0.0800 | 0.200 | | µg/L | 1 | 07/24/17 10:15 AM |
| ALKALINITY | | M2320 B | | | | | Analyst: BTJ |
| Alkalinity, Bicarbonate (As CaCO3) | 227 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/13/17 02:27 PM |
| Alkalinity, Carbonate (As CaCO3) | <20.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/13/17 02:27 PM |
| Alkalinity, Hydroxide (As CaCO3) | <20.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/13/17 02:27 PM |
| Alkalinity, Total (As CaCO3) | 227 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/13/17 02:27 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern
 J Analyte detected between MDL and RL
 MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 24-Jul-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR Sampling (57623)
Lab Order: 1707095

Client Sample ID: NW-10A
Lab ID: 1707095-06
Alternate ID: S17192162E
Collection Date: 07/11/17 02:54 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|--------|----------------|-------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 24.1 | 5.00 | 10.0 | | µg/L | 1 | 07/18/17 12:07 PM |
| Dissolved Molybdenum | 6.04 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 12:07 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <2.50 | 0.800 | 2.50 | | µg/L | 1 | 07/18/17 02:31 PM |
| Arsenic | 5.26 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 02:31 PM |
| Barium | 100 | 3.00 | 10.0 | | µg/L | 1 | 07/18/17 02:31 PM |
| Beryllium | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/18/17 02:31 PM |
| Boron | 712 | 100 | 300 | | µg/L | 10 | 07/19/17 02:51 PM |
| Cadmium | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/18/17 02:31 PM |
| Calcium | 170000 | 1000 | 3000 | | µg/L | 10 | 07/19/17 02:51 PM |
| Chromium | 10.8 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 02:31 PM |
| Cobalt | <5.00 | 3.00 | 5.00 | | µg/L | 1 | 07/18/17 02:31 PM |
| Lead | 0.431 | 0.300 | 1.00 | J | µg/L | 1 | 07/18/17 02:31 PM |
| Lithium | 22.0 | 5.00 | 10.0 | | µg/L | 1 | 07/18/17 02:31 PM |
| Magnesium | 29100 | 1000 | 3000 | | µg/L | 10 | 07/19/17 02:51 PM |
| Molybdenum | 8.67 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 02:31 PM |
| Potassium | 1780 | 100 | 300 | | µg/L | 1 | 07/18/17 02:31 PM |
| Selenium | 2.22 | 2.00 | 5.00 | J | µg/L | 1 | 07/18/17 02:31 PM |
| Sodium | 167000 | 1000 | 3000 | | µg/L | 10 | 07/19/17 02:51 PM |
| Thallium | <1.50 | 0.500 | 1.50 | | µg/L | 1 | 07/18/17 02:31 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.200 | 0.0800 | 0.200 | | µg/L | 1 | 07/24/17 10:26 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 329 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/13/17 02:45 PM |
| Alkalinity, Carbonate (As CaCO3) | <20.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/13/17 02:45 PM |
| Alkalinity, Hydroxide (As CaCO3) | <20.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/13/17 02:45 PM |
| Alkalinity, Total (As CaCO3) | 329 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/13/17 02:45 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 24-Jul-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR Sampling (57623)
Lab Order: 1707095

Client Sample ID: MW-5
Lab ID: 1707095-07
Alternate ID: S17192162F
Collection Date: 07/11/17 01:16 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|--------|----------------|-------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 19.4 | 5.00 | 10.0 | | µg/L | 1 | 07/20/17 01:59 PM |
| Dissolved Molybdenum | <5.00 | 2.00 | 5.00 | | µg/L | 1 | 07/20/17 01:59 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <2.50 | 0.800 | 2.50 | | µg/L | 1 | 07/18/17 02:33 PM |
| Arsenic | 9.45 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 02:33 PM |
| Barium | 71.2 | 3.00 | 10.0 | | µg/L | 1 | 07/18/17 02:33 PM |
| Beryllium | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/18/17 02:33 PM |
| Boron | 11.1 | 10.0 | 30.0 | | µg/L | 1 | 07/19/17 02:53 PM |
| Cadmium | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/18/17 02:33 PM |
| Calcium | 120000 | 1000 | 3000 | | µg/L | 10 | 07/19/17 02:55 PM |
| Chromium | <5.00 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 02:33 PM |
| Cobalt | <5.00 | 3.00 | 5.00 | | µg/L | 1 | 07/18/17 02:33 PM |
| Lead | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/18/17 02:33 PM |
| Lithium | 18.3 | 5.00 | 10.0 | | µg/L | 1 | 07/18/17 02:33 PM |
| Magnesium | 21700 | 100 | 300 | | µg/L | 1 | 07/18/17 02:33 PM |
| Molybdenum | <5.00 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 02:33 PM |
| Potassium | 1530 | 100 | 300 | | µg/L | 1 | 07/18/17 02:33 PM |
| Selenium | <5.00 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 02:33 PM |
| Sodium | 128000 | 1000 | 3000 | | µg/L | 10 | 07/19/17 02:55 PM |
| Thallium | <1.50 | 0.500 | 1.50 | | µg/L | 1 | 07/18/17 02:33 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.200 | 0.0800 | 0.200 | | µg/L | 1 | 07/24/17 10:28 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 288 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 07/13/17 02:56 PM |
| Alkalinity, Carbonate (As CaCO3) | <20.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 07/13/17 02:56 PM |
| Alkalinity, Hydroxide (As CaCO3) | <20.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 07/13/17 02:56 PM |
| Alkalinity, Total (As CaCO3) | 288 | 20.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 07/13/17 02:56 PM |

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 24-Jul-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (57623)
Lab Order: 1707095

Client Sample ID: Dup 2
Lab ID: 1707095-08
Alternate ID: S17192162G
Collection Date: 07/11/17
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|--------|----------------|-------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 13.8 | 5.00 | 10.0 | | µg/L | 1 | 07/20/17 02:01 PM |
| Dissolved Molybdenum | 8.28 | 2.00 | 5.00 | | µg/L | 1 | 07/20/17 02:01 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | <2.50 | 0.800 | 2.50 | | µg/L | 1 | 07/18/17 02:35 PM |
| Arsenic | 22.2 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 02:35 PM |
| Barium | 78.7 | 3.00 | 10.0 | | µg/L | 1 | 07/18/17 02:35 PM |
| Beryllium | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/18/17 02:35 PM |
| Boron | 1130 | 100 | 300 | | µg/L | 10 | 07/19/17 02:57 PM |
| Cadmium | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/18/17 02:35 PM |
| Calcium | 50100 | 1000 | 3000 | | µg/L | 10 | 07/19/17 02:57 PM |
| Chromium | 5.69 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 02:35 PM |
| Cobalt | <5.00 | 3.00 | 5.00 | | µg/L | 1 | 07/18/17 02:35 PM |
| Lead | 1.46 | 0.300 | 1.00 | | µg/L | 1 | 07/18/17 02:35 PM |
| Lithium | 13.3 | 5.00 | 10.0 | | µg/L | 1 | 07/18/17 02:35 PM |
| Magnesium | 3910 | 100 | 300 | | µg/L | 1 | 07/18/17 02:35 PM |
| Molybdenum | 7.72 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 02:35 PM |
| Potassium | 1700 | 100 | 300 | | µg/L | 1 | 07/18/17 02:35 PM |
| Selenium | <5.00 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 02:35 PM |
| Sodium | 61800 | 1000 | 3000 | | µg/L | 10 | 07/19/17 02:57 PM |
| Thallium | <1.50 | 0.500 | 1.50 | | µg/L | 1 | 07/18/17 02:35 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.200 | 0.0800 | 0.200 | | µg/L | 1 | 07/24/17 10:31 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 143 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/13/17 03:00 PM |
| Alkalinity, Carbonate (As CaCO3) | <20.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/13/17 03:00 PM |
| Alkalinity, Hydroxide (As CaCO3) | <20.0 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/13/17 03:00 PM |
| Alkalinity, Total (As CaCO3) | 143 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/13/17 03:00 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern
 J Analyte detected between MDL and RL
 MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 24-Jul-17

CLIENT: B-Environmental
Work Order: 1707095
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_170724B

The QC data in batch 81523 applies to the following samples: 1707095-01A, 1707095-02A, 1707095-03A, 1707095-04A, 1707095-05A, 1707095-06A, 1707095-07A, 1707095-08A

| | | | |
|---------------------------|---------------------------------|--|-----------------------------|
| Sample ID MB-81523 | Batch ID: 81523 | TestNo: SW7470A | Units: µg/L |
| SampType: MBLK | Run ID: CETAC2_HG_170724 | Analysis Date: 7/24/2017 9:59:29 AM | Prep Date: 7/21/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | <0.200 | 0.200 | | | | | | | | |

| | | | |
|----------------------------|---------------------------------|---|-----------------------------|
| Sample ID LCS-81523 | Batch ID: 81523 | TestNo: SW7470A | Units: µg/L |
| SampType: LCS | Run ID: CETAC2_HG_170724 | Analysis Date: 7/24/2017 10:01:45 AM | Prep Date: 7/21/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 2.00 | 0.200 | 2.000 | 0 | 100 | 85 | 115 | | | |

| | | | |
|-----------------------------|---------------------------------|---|-----------------------------|
| Sample ID LCSD-81523 | Batch ID: 81523 | TestNo: SW7470A | Units: µg/L |
| SampType: LCSD | Run ID: CETAC2_HG_170724 | Analysis Date: 7/24/2017 10:04:01 AM | Prep Date: 7/21/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 1.92 | 0.200 | 2.000 | 0 | 96.0 | 85 | 115 | 4.08 | 15 | |

| | | | |
|---------------------------------|---------------------------------|---|-----------------------------|
| Sample ID 1707095-05A SD | Batch ID: 81523 | TestNo: SW7470A | Units: µg/L |
| SampType: SD | Run ID: CETAC2_HG_170724 | Analysis Date: 7/24/2017 10:17:38 AM | Prep Date: 7/21/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | <1.00 | 1.00 | 0 | 0 | | | | 0 | 10 | |

| | | | |
|----------------------------------|---------------------------------|---|-----------------------------|
| Sample ID 1707095-05A PDS | Batch ID: 81523 | TestNo: SW7470A | Units: µg/L |
| SampType: PDS | Run ID: CETAC2_HG_170724 | Analysis Date: 7/24/2017 10:19:54 AM | Prep Date: 7/21/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 2.32 | 0.200 | 2.500 | 0 | 92.8 | 85 | 115 | | | |

| | | | |
|---------------------------------|---------------------------------|---|-----------------------------|
| Sample ID 1707095-05A MS | Batch ID: 81523 | TestNo: SW7470A | Units: µg/L |
| SampType: MS | Run ID: CETAC2_HG_170724 | Analysis Date: 7/24/2017 10:22:10 AM | Prep Date: 7/21/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 1.97 | 0.200 | 2.000 | 0 | 98.5 | 80 | 120 | | | |

| | | | |
|----------------------------------|---------------------------------|---|-----------------------------|
| Sample ID 1707095-05A MSD | Batch ID: 81523 | TestNo: SW7470A | Units: µg/L |
| SampType: MSD | Run ID: CETAC2_HG_170724 | Analysis Date: 7/24/2017 10:24:26 AM | Prep Date: 7/21/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 1.90 | 0.200 | 2.000 | 0 | 95.0 | 80 | 120 | 3.62 | 15 | |

- | | | |
|--------------------|---|---|
| Qualifiers: | B Analyte detected in the associated Method Blank | DF Dilution Factor |
| | J Analyte detected between MDL and RL | MDL Method Detection Limit |
| | ND Not Detected at the Method Detection Limit | R RPD outside accepted control limits |
| | RL Reporting Limit | S Spike Recovery outside control limits |
| | J Analyte detected between SDL and RL | N Parameter not NELAC certified |

CLIENT: B-Environmental
Work Order: 1707095
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170718A

The QC data in batch 81435 applies to the following samples: 1707095-01A, 1707095-02A, 1707095-03A, 1707095-04A, 1707095-05A, 1707095-06A, 1707095-07A, 1707095-08A

| | | | |
|---------------------------|--------------------------------|--|-----------------------------|
| Sample ID MB-81435 | Batch ID: 81435 | TestNo: SW6020A | Units: µg/L |
| SampType: MBLK | Run ID: ICP-MS4_170718A | Analysis Date: 7/18/2017 1:34:00 PM | Prep Date: 7/17/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | <2.50 | 2.50 | | | | | | | | |
| Arsenic | <5.00 | 5.00 | | | | | | | | |
| Barium | <10.0 | 10.0 | | | | | | | | |
| Beryllium | <1.00 | 1.00 | | | | | | | | |
| Cadmium | <1.00 | 1.00 | | | | | | | | |
| Calcium | <300 | 300 | | | | | | | | |
| Chromium | <5.00 | 5.00 | | | | | | | | |
| Cobalt | <5.00 | 5.00 | | | | | | | | |
| Lead | <1.00 | 1.00 | | | | | | | | |
| Lithium | <10.0 | 10.0 | | | | | | | | |
| Magnesium | <300 | 300 | | | | | | | | |
| Molybdenum | <5.00 | 5.00 | | | | | | | | |
| Potassium | <300 | 300 | | | | | | | | |
| Selenium | <5.00 | 5.00 | | | | | | | | |
| Thallium | <1.50 | 1.50 | | | | | | | | |

| | | | |
|----------------------------|--------------------------------|--|-----------------------------|
| Sample ID LCS-81435 | Batch ID: 81435 | TestNo: SW6020A | Units: µg/L |
| SampType: LCS | Run ID: ICP-MS4_170718A | Analysis Date: 7/18/2017 1:36:00 PM | Prep Date: 7/17/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 194 | 2.50 | 200.0 | 0 | 97.1 | 80 | 120 | | | |
| Arsenic | 202 | 5.00 | 200.0 | 0 | 101 | 80 | 120 | | | |
| Barium | 203 | 10.0 | 200.0 | 0 | 101 | 80 | 120 | | | |
| Beryllium | 193 | 1.00 | 200.0 | 0 | 96.5 | 80 | 120 | | | |
| Cadmium | 197 | 1.00 | 200.0 | 0 | 98.7 | 80 | 120 | | | |
| Calcium | 5230 | 300 | 5000 | 0 | 105 | 80 | 120 | | | |
| Chromium | 204 | 5.00 | 200.0 | 0 | 102 | 80 | 120 | | | |
| Cobalt | 206 | 5.00 | 200.0 | 0 | 103 | 80 | 120 | | | |
| Lead | 198 | 1.00 | 200.0 | 0 | 99.1 | 80 | 120 | | | |
| Lithium | 193 | 10.0 | 200.0 | 0 | 96.4 | 80 | 120 | | | |
| Magnesium | 4940 | 300 | 5000 | 0 | 98.9 | 80 | 120 | | | |
| Molybdenum | 189 | 5.00 | 200.0 | 0 | 94.4 | 80 | 120 | | | |
| Potassium | 5090 | 300 | 5000 | 0 | 102 | 80 | 120 | | | |
| Selenium | 209 | 5.00 | 200.0 | 0 | 105 | 80 | 120 | | | |
| Thallium | 197 | 1.50 | 200.0 | 0 | 98.7 | 80 | 120 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1707095
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170718A

| | | | |
|-----------------------------|--------------------------------|--|-----------------------------|
| Sample ID LCSD-81435 | Batch ID: 81435 | TestNo: SW6020A | Units: µg/L |
| SampType: LCSD | Run ID: ICP-MS4_170718A | Analysis Date: 7/18/2017 1:38:00 PM | Prep Date: 7/17/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | 193 | 2.50 | 200.0 | 0 | 96.7 | 80 | 120 | 0.487 | 15 | |
| Arsenic | 199 | 5.00 | 200.0 | 0 | 99.6 | 80 | 120 | 1.48 | 15 | |
| Barium | 201 | 10.0 | 200.0 | 0 | 101 | 80 | 120 | 0.960 | 15 | |
| Beryllium | 189 | 1.00 | 200.0 | 0 | 94.5 | 80 | 120 | 2.09 | 15 | |
| Cadmium | 197 | 1.00 | 200.0 | 0 | 98.6 | 80 | 120 | 0.106 | 15 | |
| Calcium | 5200 | 300 | 5000 | 0 | 104 | 80 | 120 | 0.530 | 15 | |
| Chromium | 203 | 5.00 | 200.0 | 0 | 101 | 80 | 120 | 0.695 | 15 | |
| Cobalt | 203 | 5.00 | 200.0 | 0 | 101 | 80 | 120 | 1.57 | 15 | |
| Lead | 196 | 1.00 | 200.0 | 0 | 98.2 | 80 | 120 | 0.940 | 15 | |
| Lithium | 189 | 10.0 | 200.0 | 0 | 94.4 | 80 | 120 | 2.07 | 15 | |
| Magnesium | 4910 | 300 | 5000 | 0 | 98.2 | 80 | 120 | 0.713 | 15 | |
| Molybdenum | 187 | 5.00 | 200.0 | 0 | 93.3 | 80 | 120 | 1.18 | 15 | |
| Potassium | 5050 | 300 | 5000 | 0 | 101 | 80 | 120 | 0.636 | 15 | |
| Selenium | 206 | 5.00 | 200.0 | 0 | 103 | 80 | 120 | 1.46 | 15 | |
| Thallium | 196 | 1.50 | 200.0 | 0 | 97.8 | 80 | 120 | 0.928 | 15 | |

| | | | |
|---------------------------------|--------------------------------|--|-----------------------------|
| Sample ID 1707095-05A SD | Batch ID: 81435 | TestNo: SW6020A | Units: µg/L |
| SampType: SD | Run ID: ICP-MS4_170718A | Analysis Date: 7/18/2017 1:44:00 PM | Prep Date: 7/17/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | <12.5 | 12.5 | 0 | 0 | | | | 0 | 10 | |
| Arsenic | 14.7 | 25.0 | 0 | 14.89 | | | | 1.46 | 10 | |
| Barium | 51.2 | 50.0 | 0 | 50.75 | | | | 0.973 | 10 | |
| Beryllium | <5.00 | 5.00 | 0 | 0 | | | | 0 | 10 | |
| Cadmium | <5.00 | 5.00 | 0 | 0 | | | | 0 | 10 | |
| Chromium | <25.0 | 25.0 | 0 | 4.556 | | | | 0 | 10 | |
| Cobalt | <25.0 | 25.0 | 0 | 0 | | | | 0 | 10 | |
| Lead | <5.00 | 5.00 | 0 | 0.3540 | | | | 0 | 10 | |
| Lithium | <50.0 | 50.0 | 0 | 11.91 | | | | 0 | 10 | |
| Magnesium | 9100 | 1500 | 0 | 8696 | | | | 4.49 | 10 | |
| Molybdenum | 116 | 25.0 | 0 | 113.6 | | | | 2.29 | 10 | |
| Potassium | 866 | 1500 | 0 | 847.5 | | | | 2.11 | 10 | |
| Selenium | <25.0 | 25.0 | 0 | 0 | | | | 0 | 10 | |
| Thallium | <7.50 | 7.50 | 0 | 0 | | | | 0 | 10 | |

| | | | |
|----------------------------------|--------------------------------|--|-----------------------------|
| Sample ID 1707095-05A PDS | Batch ID: 81435 | TestNo: SW6020A | Units: µg/L |
| SampType: PDS | Run ID: ICP-MS4_170718A | Analysis Date: 7/18/2017 2:04:00 PM | Prep Date: 7/17/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 196 | 2.50 | 200.0 | 0 | 97.9 | 80 | 120 | | | |
| Arsenic | 215 | 5.00 | 200.0 | 14.89 | 100 | 80 | 120 | | | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1707095
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170718A

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|
| Sample ID | 1707095-05A PDS | Batch ID: | 81435 | TestNo: | SW6020A | Units: | µg/L |
| SampType: | PDS | Run ID: | ICP-MS4_170718A | Analysis Date: | 7/18/2017 2:04:00 PM | Prep Date: | 7/17/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Barium | 250 | 10.0 | 200.0 | 50.75 | 99.5 | 80 | 120 | | | |
| Beryllium | 184 | 1.00 | 200.0 | 0 | 92.0 | 80 | 120 | | | |
| Cadmium | 192 | 1.00 | 200.0 | 0 | 96.2 | 80 | 120 | | | |
| Chromium | 209 | 5.00 | 200.0 | 4.556 | 102 | 80 | 120 | | | |
| Cobalt | 205 | 5.00 | 200.0 | 0 | 102 | 80 | 120 | | | |
| Lead | 196 | 1.00 | 200.0 | 0.3540 | 98.1 | 80 | 120 | | | |
| Lithium | 191 | 10.0 | 200.0 | 11.91 | 89.6 | 80 | 120 | | | |
| Magnesium | 12900 | 300 | 5000 | 8696 | 83.5 | 80 | 120 | | | |
| Molybdenum | 293 | 5.00 | 200.0 | 113.6 | 89.9 | 80 | 120 | | | |
| Potassium | 5720 | 300 | 5000 | 847.5 | 97.5 | 80 | 120 | | | |
| Selenium | 201 | 5.00 | 200.0 | 0 | 101 | 80 | 120 | | | |
| Thallium | 195 | 1.50 | 200.0 | 0 | 97.4 | 80 | 120 | | | |

| | | | | | | | |
|-----------|----------------|-----------|-----------------|----------------|----------------------|------------|-----------|
| Sample ID | 1707095-05A MS | Batch ID: | 81435 | TestNo: | SW6020A | Units: | µg/L |
| SampType: | MS | Run ID: | ICP-MS4_170718A | Analysis Date: | 7/18/2017 2:06:00 PM | Prep Date: | 7/17/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 196 | 2.50 | 200.0 | 0 | 97.9 | 80 | 120 | | | |
| Arsenic | 218 | 5.00 | 200.0 | 14.89 | 101 | 80 | 120 | | | |
| Barium | 254 | 10.0 | 200.0 | 50.75 | 102 | 80 | 120 | | | |
| Beryllium | 181 | 1.00 | 200.0 | 0 | 90.3 | 80 | 120 | | | |
| Cadmium | 191 | 1.00 | 200.0 | 0 | 95.7 | 80 | 120 | | | |
| Calcium | 57100 | 300 | 5000 | 51820 | 106 | 80 | 120 | | | |
| Chromium | 204 | 5.00 | 200.0 | 4.556 | 99.6 | 80 | 120 | | | |
| Cobalt | 203 | 5.00 | 200.0 | 0 | 101 | 80 | 120 | | | |
| Lead | 196 | 1.00 | 200.0 | 0.3540 | 97.7 | 80 | 120 | | | |
| Lithium | 192 | 10.0 | 200.0 | 11.91 | 89.8 | 80 | 120 | | | |
| Magnesium | 13700 | 300 | 5000 | 8696 | 100 | 80 | 120 | | | |
| Molybdenum | 309 | 5.00 | 200.0 | 113.6 | 97.5 | 80 | 120 | | | |
| Potassium | 5870 | 300 | 5000 | 847.5 | 100 | 80 | 120 | | | |
| Selenium | 209 | 5.00 | 200.0 | 0 | 104 | 80 | 120 | | | |
| Thallium | 195 | 1.50 | 200.0 | 0 | 97.6 | 80 | 120 | | | |

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|
| Sample ID | 1707095-05A MSD | Batch ID: | 81435 | TestNo: | SW6020A | Units: | µg/L |
| SampType: | MSD | Run ID: | ICP-MS4_170718A | Analysis Date: | 7/18/2017 2:08:00 PM | Prep Date: | 7/17/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|-----------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 190 | 2.50 | 200.0 | 0 | 94.9 | 80 | 120 | 3.11 | 15 | |
| Arsenic | 213 | 5.00 | 200.0 | 14.89 | 99.3 | 80 | 120 | 1.92 | 15 | |
| Barium | 248 | 10.0 | 200.0 | 50.75 | 98.5 | 80 | 120 | 2.59 | 15 | |
| Beryllium | 175 | 1.00 | 200.0 | 0 | 87.3 | 80 | 120 | 3.37 | 15 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1707095
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170718A

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|
| Sample ID | 1707095-05A MSD | Batch ID: | 81435 | TestNo: | SW6020A | Units: | µg/L |
| SampType: | MSD | Run ID: | ICP-MS4_170718A | Analysis Date: | 7/18/2017 2:08:00 PM | Prep Date: | 7/17/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| Cadmium | 186 | 1.00 | 200.0 | 0 | 93.2 | 80 | 120 | 2.59 | 15 | |
| Calcium | 55500 | 300 | 5000 | 51820 | 73.7 | 80 | 120 | 2.83 | 15 | S |
| Chromium | 198 | 5.00 | 200.0 | 4.556 | 96.5 | 80 | 120 | 3.07 | 15 | |
| Cobalt | 198 | 5.00 | 200.0 | 0 | 98.8 | 80 | 120 | 2.66 | 15 | |
| Lead | 189 | 1.00 | 200.0 | 0.3540 | 94.3 | 80 | 120 | 3.59 | 15 | |
| Lithium | 191 | 10.0 | 200.0 | 11.91 | 89.5 | 80 | 120 | 0.374 | 15 | |
| Magnesium | 13300 | 300 | 5000 | 8696 | 92.1 | 80 | 120 | 2.94 | 15 | |
| Molybdenum | 300 | 5.00 | 200.0 | 113.6 | 93.1 | 80 | 120 | 2.89 | 15 | |
| Potassium | 5760 | 300 | 5000 | 847.5 | 98.2 | 80 | 120 | 1.86 | 15 | |
| Selenium | 198 | 5.00 | 200.0 | 0 | 98.8 | 80 | 120 | 5.43 | 15 | |
| Thallium | 189 | 1.50 | 200.0 | 0 | 94.4 | 80 | 120 | 3.43 | 15 | |

| | | | | |
|--------------------|----|---|-----|---------------------------------------|
| Qualifiers: | B | Analyte detected in the associated Method Blank | DF | Dilution Factor |
| | J | Analyte detected between MDL and RL | MDL | Method Detection Limit |
| | ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| | RL | Reporting Limit | S | Spike Recovery outside control limits |
| | J | Analyte detected between SDL and RL | N | Parameter not NELAC certified |

CLIENT: B-Environmental
Work Order: 1707095
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170718A

The QC data in batch 81442 applies to the following samples: 1707095-01B, 1707095-02B, 1707095-03B, 1707095-04B, 1707095-06B

| | | | | | | | | | | |
|---------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID MB-81442 | Batch ID: 81442 | TestNo: SW6020A | Units: µg/L | | | | | | | |
| SampType: MBLK | Run ID: ICP-MS4_170718A | Analysis Date: 7/18/2017 11:08:00 AM | Prep Date: 7/17/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | <10.0 | 10.0 | | | | | | | | |
| Molybdenum | <5.00 | 5.00 | | | | | | | | |

| | | | | | | | | | | |
|----------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID LCS-81442 | Batch ID: 81442 | TestNo: SW6020A | Units: µg/L | | | | | | | |
| SampType: LCS | Run ID: ICP-MS4_170718A | Analysis Date: 7/18/2017 11:10:00 AM | Prep Date: 7/17/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 202 | 10.0 | 200.0 | 0 | 101 | 80 | 120 | | | |
| Molybdenum | 198 | 5.00 | 200.0 | 0 | 98.8 | 80 | 120 | | | |

| | | | | | | | | | | |
|-----------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|-------|----------|------|
| Sample ID LCSD-81442 | Batch ID: 81442 | TestNo: SW6020A | Units: µg/L | | | | | | | |
| SampType: LCSD | Run ID: ICP-MS4_170718A | Analysis Date: 7/18/2017 11:12:00 AM | Prep Date: 7/17/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 208 | 10.0 | 200.0 | 0 | 104 | 80 | 120 | 2.64 | 15 | |
| Molybdenum | 199 | 5.00 | 200.0 | 0 | 99.3 | 80 | 120 | 0.505 | 15 | |

| | | | | | | | | | | |
|---------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1707057-06B SD | Batch ID: 81442 | TestNo: SW6020A | Units: µg/L | | | | | | | |
| SampType: SD | Run ID: ICP-MS4_170718A | Analysis Date: 7/18/2017 11:18:00 AM | Prep Date: 7/17/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | <50.0 | 50.0 | 0 | 7.002 | | | | 0 | 10 | |
| Molybdenum | <25.0 | 25.0 | 0 | 8.622 | | | | 0 | 10 | |

| | | | | | | | | | | |
|----------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1707057-06B PDS | Batch ID: 81442 | TestNo: SW6020A | Units: µg/L | | | | | | | |
| SampType: PDS | Run ID: ICP-MS4_170718A | Analysis Date: 7/18/2017 11:37:00 AM | Prep Date: 7/17/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 198 | 10.0 | 200.0 | 7.002 | 95.3 | 80 | 120 | | | |
| Molybdenum | 200 | 5.00 | 200.0 | 8.622 | 95.9 | 80 | 120 | | | |

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|---------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1707057-06B MS | Batch ID: 81442 | TestNo: SW6020A | Units: µg/L | | | | | | | |
| SampType: MS | Run ID: ICP-MS4_170718A | Analysis Date: 7/18/2017 11:39:00 AM | Prep Date: 7/17/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 196 | 10.0 | 200.0 | 7.002 | 94.5 | 80 | 120 | | | |
| Molybdenum | 204 | 5.00 | 200.0 | 8.622 | 97.6 | 80 | 120 | | | |

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|--|---|
| <p>Qualifiers:</p> <ul style="list-style-type: none"> B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | <ul style="list-style-type: none"> DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified |
|--|---|

CLIENT: B-Environmental
Work Order: 1707095
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170718A

| Sample ID | 1707057-06B MSD | Batch ID: | 81442 | TestNo: | SW6020A | Units: | µg/L | | | |
|------------|-----------------|-----------|-----------------|----------------|-----------------------|------------|-----------|-------|----------|------|
| SampType: | MSD | Run ID: | ICP-MS4_170718A | Analysis Date: | 7/18/2017 11:41:00 AM | Prep Date: | 7/17/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 199 | 10.0 | 200.0 | 7.002 | 95.8 | 80 | 120 | 1.36 | 15 | |
| Molybdenum | 204 | 5.00 | 200.0 | 8.622 | 97.9 | 80 | 120 | 0.288 | 15 | |

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|--------------------|----|---|-----|---------------------------------------|
| Qualifiers: | B | Analyte detected in the associated Method Blank | DF | Dilution Factor |
| | J | Analyte detected between MDL and RL | MDL | Method Detection Limit |
| | ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| | RL | Reporting Limit | S | Spike Recovery outside control limits |
| | J | Analyte detected between SDL and RL | N | Parameter not NELAC certified |

CLIENT: B-Environmental
Work Order: 1707095
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170719C

The QC data in batch 81435 applies to the following samples: 1707095-01A, 1707095-02A, 1707095-03A, 1707095-04A, 1707095-05A, 1707095-06A, 1707095-07A, 1707095-08A

| | | | | | | | | | | |
|-----------|----------|-----------|-----------------|----------------|----------------------|------------|-----------|------|----------|------|
| Sample ID | MB-81435 | Batch ID: | 81435 | TestNo: | SW6020A | Units: | µg/L | | | |
| SampType: | MBLK | Run ID: | ICP-MS4_170719C | Analysis Date: | 7/19/2017 2:31:00 PM | Prep Date: | 7/17/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | <30.0 | 30.0 | | | | | | | | |
| Sodium | <300 | 300 | | | | | | | | |

| | | | | | | | | | | |
|-----------|-----------|-----------|-----------------|----------------|----------------------|------------|-----------|------|----------|------|
| Sample ID | LCS-81435 | Batch ID: | 81435 | TestNo: | SW6020A | Units: | µg/L | | | |
| SampType: | LCS | Run ID: | ICP-MS4_170719C | Analysis Date: | 7/19/2017 2:33:00 PM | Prep Date: | 7/17/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 200 | 30.0 | 200.0 | 0 | 100 | 80 | 120 | | | |
| Sodium | 5100 | 300 | 5000 | 0 | 102 | 80 | 120 | | | |

| | | | | | | | | | | |
|-----------|------------|-----------|-----------------|----------------|----------------------|------------|-----------|-------|----------|------|
| Sample ID | LCSD-81435 | Batch ID: | 81435 | TestNo: | SW6020A | Units: | µg/L | | | |
| SampType: | LCSD | Run ID: | ICP-MS4_170719C | Analysis Date: | 7/19/2017 2:35:00 PM | Prep Date: | 7/17/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 200 | 30.0 | 200.0 | 0 | 99.8 | 80 | 120 | 0.376 | 15 | |
| Sodium | 5060 | 300 | 5000 | 0 | 101 | 80 | 120 | 0.784 | 15 | |

| | | | | | | | | | | |
|-----------|----------------|-----------|-----------------|----------------|----------------------|------------|-----------|-------|----------|------|
| Sample ID | 1707095-05A SD | Batch ID: | 81435 | TestNo: | SW6020A | Units: | µg/L | | | |
| SampType: | SD | Run ID: | ICP-MS4_170719C | Analysis Date: | 7/19/2017 2:41:00 PM | Prep Date: | 7/17/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 8710 | 3000 | 0 | 7992 | | | | 8.55 | 10 | |
| Calcium | 49600 | 30000 | 0 | 49550 | | | | 0.193 | 10 | |
| Sodium | 129000 | 30000 | 0 | 127400 | | | | 1.56 | 10 | |

| | | | | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|------|----------|------|
| Sample ID | 1707095-05A PDS | Batch ID: | 81435 | TestNo: | SW6020A | Units: | µg/L | | | |
| SampType: | PDS | Run ID: | ICP-MS4_170719C | Analysis Date: | 7/19/2017 2:59:00 PM | Prep Date: | 7/17/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 12400 | 600 | 4000 | 7992 | 110 | 80 | 120 | | | |
| Calcium | 145000 | 6000 | 100000 | 49550 | 95.8 | 80 | 120 | | | |
| Sodium | 227000 | 6000 | 100000 | 127400 | 100 | 80 | 120 | | | |

| | | | | | | | | | | |
|-----------|----------------|-----------|-----------------|----------------|----------------------|------------|-----------|------|----------|------|
| Sample ID | 1707095-05A MS | Batch ID: | 81435 | TestNo: | SW6020A | Units: | µg/L | | | |
| SampType: | MS | Run ID: | ICP-MS4_170719C | Analysis Date: | 7/19/2017 3:01:00 PM | Prep Date: | 7/17/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 8420 | 600 | 200.0 | 7992 | 213 | 80 | 120 | | | S |
| Sodium | 134000 | 6000 | 5000 | 127400 | 135 | 80 | 120 | | | S |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1707095
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170719C

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|
| Sample ID | 1707095-05A MSD | Batch ID: | 81435 | TestNo: | SW6020A | Units: | µg/L |
| SampType: | MSD | Run ID: | ICP-MS4_170719C | Analysis Date: | 7/19/2017 3:03:00 PM | Prep Date: | 7/17/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Boron | 8330 | 600 | 200.0 | 7992 | 168 | 80 | 120 | 1.09 | 15 | S |
| Sodium | 131000 | 6000 | 5000 | 127400 | 80.1 | 80 | 120 | 2.07 | 15 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL

DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental

Work Order: 1707095

Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170720C

The QC data in batch 81443 applies to the following samples: 1707095-05B, 1707095-07B, 1707095-08B

| | | | | | | | | | | |
|---------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID MB-81443 | Batch ID: 81443 | TestNo: SW6020A | Units: µg/L | | | | | | | |
| SampType: MBLK | Run ID: ICP-MS4_170720C | Analysis Date: 7/20/2017 1:11:00 PM | Prep Date: 7/17/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | <10.0 | 10.0 | | | | | | | | |
| Molybdenum | <5.00 | 5.00 | | | | | | | | |

| | | | | | | | | | | |
|----------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID LCS-81443 | Batch ID: 81443 | TestNo: SW6020A | Units: µg/L | | | | | | | |
| SampType: LCS | Run ID: ICP-MS4_170720C | Analysis Date: 7/20/2017 1:13:00 PM | Prep Date: 7/17/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 207 | 10.0 | 200.0 | 0 | 103 | 80 | 120 | | | |
| Molybdenum | 196 | 5.00 | 200.0 | 0 | 98.2 | 80 | 120 | | | |

| | | | | | | | | | | |
|-----------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID LCSD-81443 | Batch ID: 81443 | TestNo: SW6020A | Units: µg/L | | | | | | | |
| SampType: LCSD | Run ID: ICP-MS4_170720C | Analysis Date: 7/20/2017 1:15:00 PM | Prep Date: 7/17/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 210 | 10.0 | 200.0 | 0 | 105 | 80 | 120 | 1.41 | 15 | |
| Molybdenum | 200 | 5.00 | 200.0 | 0 | 100 | 80 | 120 | 1.78 | 15 | |

| | | | | | | | | | | |
|---------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|-------|----------|------|
| Sample ID 1707095-05B SD | Batch ID: 81443 | TestNo: SW6020A | Units: µg/L | | | | | | | |
| SampType: SD | Run ID: ICP-MS4_170720C | Analysis Date: 7/20/2017 1:21:00 PM | Prep Date: 7/17/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | <50.0 | 50.0 | 0 | 12.92 | | | | 0 | 10 | |
| Molybdenum | 124 | 25.0 | 0 | 124.2 | | | | 0.034 | 10 | |

| | | | | | | | | | | |
|----------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1707095-05B PDS | Batch ID: 81443 | TestNo: SW6020A | Units: µg/L | | | | | | | |
| SampType: PDS | Run ID: ICP-MS4_170720C | Analysis Date: 7/20/2017 1:41:00 PM | Prep Date: 7/17/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 211 | 10.0 | 200.0 | 12.92 | 99.1 | 80 | 120 | | | |
| Molybdenum | 315 | 5.00 | 200.0 | 124.2 | 95.3 | 80 | 120 | | | |

| | | | | | | | | | | |
|---------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1707095-05B MS | Batch ID: 81443 | TestNo: SW6020A | Units: µg/L | | | | | | | |
| SampType: MS | Run ID: ICP-MS4_170720C | Analysis Date: 7/20/2017 1:42:00 PM | Prep Date: 7/17/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Dissolved Lithium | 208 | 10.0 | 200.0 | 12.92 | 97.3 | 80 | 120 | | | |
| Dissolved Molybdenum | 324 | 5.00 | 200.0 | 124.2 | 99.9 | 80 | 120 | | | |

- | | | |
|--------------------|---|---|
| Qualifiers: | B Analyte detected in the associated Method Blank | DF Dilution Factor |
| | J Analyte detected between MDL and RL | MDL Method Detection Limit |
| | ND Not Detected at the Method Detection Limit | R RPD outside accepted control limits |
| | RL Reporting Limit | S Spike Recovery outside control limits |
| | J Analyte detected between SDL and RL | N Parameter not NELAC certified |

CLIENT: B-Environmental
Work Order: 1707095
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170720C

| Sample ID | 1707095-05B MSD | Batch ID: | 81443 | TestNo: | SW6020A | Units: | µg/L | | | |
|----------------------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|-------|----------|------|
| SampType: | MSD | Run ID: | ICP-MS4_170720C | Analysis Date: | 7/20/2017 1:44:00 PM | Prep Date: | 7/17/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Dissolved Lithium | 208 | 10.0 | 200.0 | 12.92 | 97.6 | 80 | 120 | 0.236 | 15 | |
| Dissolved Molybdenum | 319 | 5.00 | 200.0 | 124.2 | 97.5 | 80 | 120 | 1.49 | 15 | |

| | | | | |
|--------------------|----|---|-----|---------------------------------------|
| Qualifiers: | B | Analyte detected in the associated Method Blank | DF | Dilution Factor |
| | J | Analyte detected between MDL and RL | MDL | Method Detection Limit |
| | ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| | RL | Reporting Limit | S | Spike Recovery outside control limits |
| | J | Analyte detected between SDL and RL | N | Parameter not NELAC certified |

CLIENT: B-Environmental
Work Order: 1707095
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_170713B

The QC data in batch 81398 applies to the following samples: 1707095-01C, 1707095-02C, 1707095-03C, 1707095-04C, 1707095-05C, 1707095-06C, 1707095-07C, 1707095-08C

| | | | |
|---------------------------|---------------------------------|--|------------------------------|
| Sample ID MB-81398 | Batch ID: 81398 | TestNo: M2320 B | Units: mg/L @ pH 4.22 |
| SampType: MBLK | Run ID: TITRATOR_170713B | Analysis Date: 7/13/2017 1:57:00 PM | Prep Date: 7/13/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | <20.0 | 20.0 | | | | | | | | |
| Alkalinity, Carbonate (As CaCO3) | <20.0 | 20.0 | | | | | | | | |
| Alkalinity, Hydroxide (As CaCO3) | <20.0 | 20.0 | | | | | | | | |
| Alkalinity, Total (As CaCO3) | <20.0 | 20.0 | | | | | | | | |

| | | | |
|----------------------------|---------------------------------|--|------------------------------|
| Sample ID LCS-81398 | Batch ID: 81398 | TestNo: M2320 B | Units: mg/L @ pH 4.23 |
| SampType: LCS | Run ID: TITRATOR_170713B | Analysis Date: 7/13/2017 2:01:00 PM | Prep Date: 7/13/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Total (As CaCO3) | 50.0 | 20.0 | 50.00 | 0 | 100 | 74 | 129 | | | |

| | | | |
|----------------------------------|---------------------------------|--|------------------------------|
| Sample ID 1707095-05C-DUP | Batch ID: 81398 | TestNo: M2320 B | Units: mg/L @ pH 4.51 |
| SampType: DUP | Run ID: TITRATOR_170713B | Analysis Date: 7/13/2017 2:33:00 PM | Prep Date: 7/13/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | 226 | 20.0 | 0 | 226.7 | | | | 0.486 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | <20.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | <20.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | 226 | 20.0 | 0 | 226.7 | | | | 0.486 | 20 | |

- | | | | | |
|--------------------|----|---|-----|---------------------------------------|
| Qualifiers: | B | Analyte detected in the associated Method Blank | DF | Dilution Factor |
| | J | Analyte detected between MDL and RL | MDL | Method Detection Limit |
| | ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| | RL | Reporting Limit | S | Spike Recovery outside control limits |
| | J | Analyte detected between SDL and RL | N | Parameter not NELAC certified |

2609 North River Road, Port Allen, Louisiana 70767
(800) 401-4277 -- FAX (225) 381-2996



ARS International, LLC

Laboratory Analysis Report

ARS1-17-02105

Prepared for:

B-Environmental

**Kevin Baros
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Project Manager Review

Management Review

Notes: ARS International, LLC assumes no liability for the use or the interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

Contact Person: Questions regarding this analytical report should be addressed to:

**Project Manager
ProjectManagers@amrad.com**

**Phone: 225.381.2991
Fax: 225.381.2996**



LELAP Cert# 01949

1 of 11



2609 North River Road, Port Allen, Louisiana 70767
 1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-02105

Request or PO Number: N/A

Client Sample ID: S171921623 (Batch 57623)

ARS Sample ID: ARS1-17-02105-001

Sample Collection Date: 07/11/17

Date Received: 07/14/17

Sample Matrix: Aqueous

Report Date: 08/14/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.189 | 0.120 | 0.142 | 0.053 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 08/11/17 8:03 | CTRAMEL | 104% |
| Ra-228 | -0.579 | 0.573 | 1.128 | 0.523 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 08/04/17 9:42 | CTRAMEL | 98% |

Project Manager Review

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1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-02105

Request or PO Number: N/A

Client Sample ID: S17192162A (Batch 57623)

ARS Sample ID: ARS1-17-02105-002

Sample Collection Date: 07/11/17

Date Received: 07/14/17

Sample Matrix: Aqueous

Report Date: 08/14/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.105 | 0.107 | 0.163 | 0.083 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 08/11/17 8:03 | CTRAMEL | 99% |
| Ra-228 | 0.648 | 0.758 | 1.255 | 0.586 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 08/04/17 9:42 | CTRAMEL | 97% |

Project Manager Review

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1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-02105

Request or PO Number: N/A

Client Sample ID: S171921628 (Batch 57623)

ARS Sample ID: ARS1-17-02105-003

Sample Collection Date: 07/11/17

Data Received: 07/14/17

Sample Matrix: Aqueous

Report Date: 08/14/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.179 | 0.144 | 0.210 | 0.087 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 08/11/17 8:03 | CTRAMEL | 93% |
| Ra-228 | 0.684 | 0.808 | 1.338 | 0.623 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 08/04/17 9:42 | CTRAMEL | 88% |

Project Manager Review

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1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-02105

Request or PO Number: N/A

Client Sample ID: S17192162C (Batch 57623)

ARS Sample ID: ARS1-17-02105-004

Sample Collection Date: 07/11/17

Date Received: 07/14/17

Sample Matrix: Aqueous

Report Date: 08/14/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.345 | 0.189 | 0.238 | 0.100 | NP | | pCi/L | ARS-D10/EPA 903.0/904.0 | 08/11/17 8:03 | CTRAMEL | 104% |
| Ra-228 | 1.086 | 0.773 | 1.195 | 0.556 | NP | U | pCi/L | ARS-D10/EPA 903.0/904.0 | 08/04/17 9:42 | CTRAMEL | 101% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-02105

Request or PO Number: N/A

Client Sample ID: S17192162D (Batch 57623)

ARS Sample ID: ARS1-17-02105-005

Sample Collection Date: 07/11/17

Date Received: 07/14/17

Sample Matrix: Aqueous

Report Date: 08/14/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.494 | 0.227 | 0.248 | 0.102 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 08/11/17 8:03 | CTRAMEL | 84% |
| Ra-228 | 1.219 | 0.927 | 1.450 | 0.674 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 08/04/17 9:42 | CTRAMEL | 83% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-02105

Request or PO Number: N/A

Client Sample ID: S17192162E (Batch 57623)

ARS Sample ID: ARS1-17-02105-006

Sample Collection Date: 07/11/17

Date Received: 07/14/17

Sample Matrix: Aqueous

Report Date: 08/14/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.524 | 0.219 | 0.202 | 0.080 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 08/11/17 8:03 | CTRAMEL | 88% |
| Ra-228 | 1.450 | 1.146 | 1.822 | 0.860 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 08/04/17 9:42 | CTRAMEL | 93% |

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ARS Sample Delivery Group: ARS1-17-02105

Request or PO Number: N/A

Client Sample ID: S17192162F (Batch 57623)

ARS Sample ID: ARS1-17-02105-007

Sample Collection Date: 07/11/17

Date Received: 07/14/17

Sample Matrix: Aqueous

Report Date: 08/14/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.051 | 0.104 | 0.189 | 0.073 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 08/11/17 8:03 | CTRAMEL | 84% |
| Ra-228 | 0.461 | 1.319 | 2.288 | 1.077 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 08/04/17 11:44 | CTRAMEL | 77% |

Project Manager Review

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1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-02106

Request or PO Number: N/A

Client Sample ID: S1719216G (Batch 57623)

ARS Sample ID: ARS1-17-02106-001

Sample Collection Date: 07/11/17

Date Received: 07/14/17

Sample Matrix: Aqueous

Report Date: 08/14/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 1.305 | 0.350 | 0.194 | 0.077 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 08/14/17 8:21 | CTRAMEL | 108% |
| Ra-228 | 1.365 | 0.697 | 0.988 | 0.457 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 08/07/17 12:00 | CTRAMEL | 108% |

Project Manager Review

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QC Results Report

2609 North River Road, Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

Sample Delivery Group: ARS1-17-02105

Laboratory Control Sample Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | LCS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|----------------------|
| ARS1-B17-01609 | LCS | RA-226 | 26.875 | 4.331 | 0.102 | 27.563 | N/A | pCi/L | ARS-010/EPA 903 | 8/11/17 10:03 | CT | 98 | 75%-125% |
| ARS1-B17-01609 | LCS | RA-228 | 37.058 | 6.196 | 1.182 | 39.784 | N/A | pCi/L | ARS-010/EPA 904 | 8/4/17 11:41 | CT | 93 | 75%-125% |

Blank Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|
| ARS1-B17-01609 | MBL | RA-226 | 0.084 | 0.068 | 0.097 | NA | U | pCi/L | ARS-010/EPA 903 | 8/11/17 10:03 | CT |
| ARS1-B17-01609 | MBL | RA-228 | 0.351 | 0.390 | 0.643 | NA | U | pCi/L | ARS-010/EPA 904 | 8/4/17 11:41 | CT |

RER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | RER | RER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01609 | LCS | RA-226 | 26.875 | 4.331 | 31.679 | 5.097 | N/A | pCi/L | ARS-010/EPA 903 | 8/11/17 10:03 | CT | 0.51 | < 1 |
| ARS1-B17-01609 | LCS | RA-228 | 37.058 | 6.196 | 38.894 | 6.472 | N/A | pCi/L | ARS-010/EPA 904 | 8/4/17 11:41 | CT | 0.14 | < 1 |

DER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | DER | DER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01609 | LCS | RA-226 | 26.875 | 4.331 | 31.679 | 5.097 | N/A | pCi/L | ARS-010/EPA 903 | 8/11/17 10:03 | CT | 0.72 | < 3 |
| ARS1-B17-01609 | LCS | RA-228 | 37.058 | 6.196 | 38.894 | 6.472 | N/A | pCi/L | ARS-010/EPA 904 | 8/4/17 11:41 | CT | 0.20 | < 3 |

Matrix Spike

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | MS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|---------------------|
| ARS1-B17-01609 | MS | Ra-226 | 60.118 | 9.663 | 0.168 | 55.362 | N/A | pCi/L | ARS-010/EPA 903 | 8/11/17 10:03 | CT | 109 | 60%-140% |
| ARS1-B17-01609 | MS | Ra-228 | 39.080 | 6.693 | 1.657 | 51.265 | N/A | pCi/L | ARS-010/EPA 904 | 8/4/17 11:41 | CT | 76 | 60%-140% |
| ARS1-B17-01609 | MSD | Ra-226 | 56.001 | 9.023 | 0.165 | 54.878 | N/A | pCi/L | ARS-010/EPA 903 | 8/11/17 10:03 | CT | 102 | 60%-140% |
| ARS1-B17-01609 | MSD | Ra-228 | 41.280 | 7.073 | 1.687 | 51.113 | N/A | pCi/L | ARS-010/EPA 904 | 8/4/17 11:41 | CT | 81 | 60%-140% |

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Project Manager Review

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LCLAP Certificate# 01949

NELAP Certificate # E87558



**INTERNATIONAL
QC Results Report**

2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

Sample Delivery Group: ARS1-17-02106

Laboratory Control Sample Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2σ) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | LCS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|----------------------|
| ARS1-B17-01622 | LCS | RA-226 | 21.318 | 3.453 | 0.115 | 27.493 | N/A | pCi/L | ARS-010/EPA 903 | 8/14/17 10:20 | CT | 78 | 75%-125% |
| ARS1-B17-01622 | LCS | RA-228 | 34.952 | 5.821 | 1.029 | 39.784 | N/A | pCi/L | ARS-010/EPA 904 | 8/14/17 10:20 | CT | 88 | 75%-125% |

Blank Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2σ) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|
| ARS1-B17-01622 | MBL | RA-226 | 0.092 | 0.072 | 0.101 | NA | U | pCi/L | ARS-010/EPA 903 | 8/14/17 10:20 | CT |
| ARS1-B17-01622 | MBL | RA-228 | -0.121 | 0.305 | 0.566 | NA | U | pCi/L | ARS-010/EPA 904 | 8/14/17 10:20 | CT |

RER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2σ) | Result 2 | CSU 2 (2σ) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | RER | RER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01622 | LCS | RA-226 | 21.318 | 3.453 | 27.250 | 4.397 | N/A | pCi/L | ARS-010/EPA 903 | 8/14/17 10:20 | CT | 0.76 | < 1 |
| ARS1-B17-01622 | LCS | RA-228 | 34.952 | 5.821 | 38.530 | 6.389 | N/A | pCi/L | ARS-010/EPA 904 | 8/14/17 10:20 | CT | 0.29 | < 1 |

DER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2σ) | Result 2 | CSU 2 (2σ) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | DER | DER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01622 | LCS | RA-226 | 21.318 | 3.453 | 27.250 | 4.397 | N/A | pCi/L | ARS-010/EPA 903 | 8/14/17 10:20 | CT | 1.06 | < 3 |
| ARS1-B17-01622 | LCS | RA-228 | 34.952 | 5.821 | 38.530 | 6.389 | N/A | pCi/L | ARS-010/EPA 904 | 8/14/17 10:20 | CT | 0.41 | < 3 |

Project Manager Review

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LELAP Certificate# 01949

NELAP Certificate # E87558



2609 North River Road • Port Allen, Louisiana 70767

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Notes (Case Narrative):

Comments:

- 1.0) All MDA/MDC values are calculated on a sample specific basis.
- 2.0) Soil and Sludge analysis are reported on a wet basis or an as received basis unless otherwise indicated.
- 3.0) Data in this report are within the limits of uncertainty specified in the reference method unless otherwise specified.
- 4.0) Modified analysis procedures are procedures that are modified to meet the certain specifications. An example may be the use of a water method to analyze a solid matrix due to the lack of an officially recognized procedure for the analysis of the solid matrix. Modified analyses are indicated by the subsequent addition of "m" to the procedure number (i.e. 900.0M).
- 5.0) Total activity is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring radioactive decay chains and other prominent radioactive nuclides. Total activity may be lower than the actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not representative of nuclides that emit solely alpha or beta particles.
- 6.0) Ra-228 is determined via secular equilibrium with its daughter, Actinium 228 (Gamma Spectroscopy only).
- 7.0) U-238 is determined via secular equilibrium with its daughter, Thorium 234 (Gamma Spectroscopy only).
- 8.0) All gamma spectroscopy was performed utilizing high purity germanium detectors (HPGe).
- 9.0) ARS makes every attempt to match sample density to calibrated density; however, in some cases, it is not practical or possible to do so and data results may be affected (Gamma Spectroscopy only).
- 10.0) Gamma spectroscopy results are calculated values based on the ORTEC® GammaVision ENV32 Analysis Engine.
- 11.0) ACLASS DOD and ISO 17025 certification applies only to the following analytes and methods: Gross Alpha and Gross Beta (EPA 900, SM7110B&C, SW846 9310); Radium 226 (EPA 903, EPA 903.1, SM 7500 Ra-B, SW846 9315); Radium 228 (EPA 904, SM 7500 Ra-B SW846 9320); Iodine-131 (EPA 901.1); Uranium by ICPMS (EPA 200.8); Strontium 89/90 (EPA 905, Eichrom SRW01, HASL 300 Sr-03-RC); Tritium (EPA 906, EPA 906M); Gamma Emitters (EPA 901.1, SM7120B, HASL 300 Ga-01-R); Americium-241, Curium 242/244, Plutonium 239/240 and 241, Thorium 228/230/232, Uranium 234/233 and 238 (Eichrom ACW03 VBS); Lead 210 (HASL 300 Pb-01-RC, Eichrom OTW01); Polonium 210 (HASL 300 Po-01-RC, HASL 300 Po-02-RC); Technetium-99 (Eichrom TCW02, Eichrom TCS01M).

Method References:

- 1.0) EPA 600/4-80-032; Prescribed Procedures for the Measurements of Radioactivity in Drinking Water, August 1980.
- 2.0) Standard Methods for the Examination of Water and Wastewater (On-Line Edition)
- 3.0) EPA SW-846; Test Methods for Evaluating Solid Waste, (On-Line edition)
- 4.0) EPA 600/4-79-020; Methods for Chemical Analysis of Water and Waste, March 1983.
- 5.0) HASL 300; The Procedures Manual of the Environmental Measurements Laboratory, Volume I, 28th Edition February, 1997.

Definitions:

| | |
|----------|---|
| CRDL | Contract Required Detection Limit |
| CSU | Combined Standard Uncertainty |
| DLC | Decision Level Concentration (ANSI N42.23) or critical level |
| DO | Duplicate Original |
| DUP | Method Duplicate |
| LCS/LCSD | Laboratory Control Sample/Laboratory Control Sample Duplicate |
| MDA | Minimum Detectable Activity |
| MDC | (Minimum Detectable Concentration) minimum concentration of the analyte that ARS can detect utilizing the specific analysis |
| MBL | Method Blank |
| MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| N/A | Not Applicable |
| NP | Not Provided |
| NR | Not Referenced |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |

Data Qualifiers:

| | |
|----|--|
| B | The analyte is found in both the associated method blank and the sample. This flag indicates probable blank contamination. |
| D | Sample analysis accomplished through dilution. |
| J | The reported result is an estimated value above the limit of detection but outside of quantitation range (e.g., matrix interference was observed). |
| Q | One or more quality control criteria failed (e.g., LCS recovery, surrogate spike recovery, or CCV recovery). |
| U | Activity is below the MDC, MDA, MDL, or LOD |
| N | The analyte is a tentatively identified compound using mass spectrometry or any non-customer requested compounds that are tentatively identified. |
| * | LCS/LCSD or MS/MSD fails RPD criteria. |
| S | Spike |
| SC | Subcontracted out to another qualified laboratory |
| H | Holding time exceeded |

ARS-059-010
Revision: 9.1
Revision Date: 03-14-2017

LELAP Cert# 01949

NELAP Cert# E87558

B Environmental Laboratory, LLC
 1606 Brazos Suite D Victoria, Texas 77901 Ph. (361) 572-8224

Chain Of Custody Rec

Batch # **57623**

TEMP UN-C 2.1 Page 1 of 2

Customer / Report Information: Coletto Creek Power
 Billing Information: Check box if Billing is the same as Report Information
 Address: 1606 Brazos Suite D Victoria, Texas 77901 Ph. (361) 572-8224
 Attention: Rick Coleman
 Project: CCR Sampling
 Comments:

PO #
 Address: P. O. Box 8, Fannin, TX 77960
 Attention: Rick Coleman
 Project: CCR Sampling
 Comments:
 Requested Analysis: **Metals, Cl, F, SO4, PH, TDS, Ra226 & Ra228, Alk: Tot, Carb, BiCarb, Diss Li & Mo**

| Sample Information | Collected By: | Collected Date | Time | Matrix | Container | Preservative | Analysis | | | | | | | Custody Seals Present | | | |
|--------------------|---------------|----------------|------|--------|-----------|-----------------------|--|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|------------|
| | | | | | | | Metals* | Cl | F | SO4 | PH | TDS | Ra226 & Ra228 | | Alk: Tot, Carb, BiCarb | Diss Li & Mo | |
| PS3 | | 7-11-17 | 907 | WW | 1L | H2SO4 H3PO4 ICE | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | S171921623 |
| MW-11 | | | 850 | WW | 1L | H2SO4 H3PO4 ICE | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | S17192162A |
| MW9 | | | 1047 | WW | 1L | H2SO4 H3PO4 ICE | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | S17192162B |
| MW9A | | | 1009 | WW | 1L | H2SO4 H3PO4 ICE | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | S17192162C |
| MW10 | | | 1121 | WW | 1L | H2SO4 H3PO4 ICE | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | S17192162D |
| MW10A | | | 1454 | WW | 1L | H2SO4 H3PO4 ICE | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | S17192162E |
| MW5 | | | 1316 | WW | 1L | H2SO4 H3PO4 ICE | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | S17192162F |

Required Turnaround: Routine (6-10 Business days) Expedite / Rush: 1 Business Day 2 Business Days 3 Business days 5 Business days Other

Surcharge will apply to RUSH/TAT Authorized By: _____

| Relinquished By: | Date: | Time: | Received By: | Date: | Time: | Carrier ID: |
|------------------|---------|-------|--------------|---------|-------|-------------|
| | 7-11-17 | 1530 | | 7/11/17 | 1530 | |
| | 7/11/17 | 1620 | | 7/11/17 | 1620 | |

1606 E Brazos Suite D, Victoria, Texas 77901 Ph. (361) 572-8224 Fax (361) 572-4115 Toll Free 1-800-460-8223 Form #1000.0-2 REV 1.2 Email: kbennivro@suddenlinkmail.com www.benvironmental.net

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 1606 E Brazos Suite D, Victoria, Texas 77901 Ph: (361) 572-8224

Chain Of Custody Rec

Batch # **574023**

TEMP UN-C2.1 Page 2 of 2

Customer / Report Information Billing Information Check box if Billing is the same as Report Information

Name: Coleto Creek Power Address: PO #
 Attention: Rick Coleman Attention: PO #
 Address: P.O. Box 8; Fanning, TX 77960 Project: CCR Sampling
 Comments:

Phone: 361-788-5145 FAX:
 EMAIL: richard.coleman@btvneuv.com Requested Analysis Completed By laboratory

Therm ID# 3 TEMP Corr: 1.9

| Sample Information | Collected | | Matrix | Container | Preservative | Metals* | Cl, F*, SO4 | pH | TDS | Ra226 & Ra228 | Alk: Tot, Carb, Bi Carb | Diss Li & Mo | Custody Seals Present |
|--------------------|-----------|------|--------|-----------|--------------|---------|-------------|----|-----|---------------|-------------------------|--------------|-----------------------|
| | Date | Time | | | | | | | | | | | |

Client / Field Sample ID: **Dup 2** Collected Date: **7-11-17** Matrix: **WW** Container: **1L** Preservative: **H2SO4, HNO3, H3PO4, HCL, Na2SO3**

Client / Field Sample ID: **ms** Collected Date: **1/21** Matrix: **WW** Container: **1L** Preservative: **H2SO4, HNO3, H3PO4, HCL, Na2SO3**

Client / Field Sample ID: **msd** Collected Date: **1/21** Matrix: **WW** Container: **1L** Preservative: **H2SO4, HNO3, H3PO4, HCL, Na2SO3**

Client / Field Sample ID: **G** Collected Date: **G** Matrix: **WW** Container: **1L** Preservative: **H2SO4, HNO3, H3PO4, HCL, Na2SO3**

Client / Field Sample ID: **G** Collected Date: **G** Matrix: **WW** Container: **1L** Preservative: **H2SO4, HNO3, H3PO4, HCL, Na2SO3**

Client / Field Sample ID: **G** Collected Date: **G** Matrix: **WW** Container: **1L** Preservative: **H2SO4, HNO3, H3PO4, HCL, Na2SO3**

Client / Field Sample ID: **G** Collected Date: **G** Matrix: **WW** Container: **1L** Preservative: **H2SO4, HNO3, H3PO4, HCL, Na2SO3**

Client / Field Sample ID: **G** Collected Date: **G** Matrix: **WW** Container: **1L** Preservative: **H2SO4, HNO3, H3PO4, HCL, Na2SO3**

Required Turnaround: Routine (6-10 Business days) Expedite / Rush: 1 Business Day 2 Business Days 3 Business days Other

Surcharge will apply to RUSH/AT Authorized BY: _____

Relinquished By: _____ Date: **7-11-17** Time: **1530** Received By: _____ Date: **7-14-17** Time: **1530**

Relinquished By: _____ Date: **7-11-17** Time: **1630** Received By: _____ Date: **7-11-17** Time: **1630**

Relinquished By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____

1606 E Brazos Suite D, Victoria, Texas 77901 Ph: (361) 572-8224 Fax (361) 572-4115 Toll Free 1-800-460-8223 Form #1000-0-2 REV 1.2 Email: kbenwiro@suddenlinkmail.com www.benviro.net

BatchNo: 57717

SAMPLE REPORT



T104704328-17-14

Business

Coletto Creek Power - R Coleman
PO Box 8
Fannin TX 77960
Att: Rick Coleman



Laboratory

B Environmental, LLC.
1606 E Brazos, Suite D
Victoria TX 77901
ph. 361-572-8224

Reference Information

Project: CCR Sampling
Printed: Wednesday,
August 16, 2017

Re: Coletto Creek Power - R Coleman

Dear: Rick Coleman

Attached are the results for sample(s) received on 7/12/2017

The analytical results relate only to the samples tested.
All supporting quality data meets the requirements of NELAC unless noted in the case narrative section of the report.

This report contains 37 pages (including the cover page)

If you have any questions concerning this report, please do not hesitate to call (361) 572-8224 or Fax us at (361) 572-4115

Respectfully Submitted,

Kevin Baros
Laboratory Director



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BatchNo: 57717

Victoria TX 77901

Batch No: 57717

Sample Receipt Checklist

Date Received: 7/12/2017

Project: CCR Sampling Received By: Woodruff

Login completed by: Woodruff 7/12/2017
Signature LoginDate:

Carrier Name Walk In

- Shipping container/cooler in good condition? YES NO Not Present
- Custody seals intact on shipping container/cooler? YES NO Not Present
- Custody seals intact on sample bottles? YES NO Not Present
- Chain of Custody present? YES NO
- Chain of Custody signed when relinquished and received? YES NO
- Chain of Custody agrees with sample labels? YES NO
- Samples in proper container/bottles? YES NO
- Sample containers intact? YES NO
- Sufficient sample volume for indicated tests? YES NO
- All samples received within holding times? YES NO
- Container/Temp Blank - temperature in compliance? YES NO >0 <6 °C On Ice
- Water - VOA vials have zero headspace? Bubble < 6mm? YES NO No VOA Vials submitted
- Water - pH acceptable upon receipt? YES NO Not Applicable

*TEMP 4.6/4.4 pH Adjusted? No Checked By L. Vahrenkamp

Any No and/or N/A (not applicable) response must be detailed in the comments section below.

Client contacted PersonContacted
Contacted by: Date Contacted:

Regarding

Comments
Therm #3. HNO3 Lot # 2-42-12. pH Paper Lot # 2-25-6.

Corrective Action



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 Victoria TX 77901

BatchNo: 57717

Sample Report Information



| | | |
|------------------------------|------------------------|------------------------|
| Sample ID: S171931625 | Client ID: MW-6 | Sampler: Client |
|------------------------------|------------------------|------------------------|

Client: Coletto Creek Power - R Coleman
 Study: Water
 Project: CCR Sampling
 Location: MW #6
 Notes:

Batch No: 57717
 Sampled: 7/12/2017 7:55 AM
 Type: Grab
 Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 69 | mg/L | EPA 300 | K Baros | 7/13/2017 9:44 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 183 | mg/L | SM 2320 B | | 7/17/2017 12:56 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/17/2017 12:56 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 183 | mg/L | SM 2320 B | | 7/17/2017 12:56 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.35 | mg/L | EPA 300 | K Baros | 7/13/2017 9:44 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.25 | SU | SM 4500-H+B | C Watts | 7/12/2017 16:45 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 557 | mg/L | SM2540C | C Watts | 7/19/2017 8:00 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/18/2017 12:44 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 98 | mg/L | EPA 300 | K Baros | 7/13/2017 9:44 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 8/3/2017 10:25 | | | | | <input checked="" type="checkbox"/> | ARS International |



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BatchNo: 57717

Victoria TX 77901

Sample Report Information



| | | | |
|------------------------------|------------------------|-----------------|---------------|
| Sample ID: S17193162A | Client ID: MW-7 | Sampler: | Client |
|------------------------------|------------------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman
Study: Water

Batch No: 57717
Sampled: 7/12/2017 8:32 AM

Project: CCR Sampling

Location: MW #7

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 89 | mg/L | EPA 300 | K Baros | 7/12/2017 22:16 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 258 | mg/L | SM 2320 B | | 7/17/2017 13:10 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/17/2017 13:10 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 258 | mg/L | SM 2320 B | | 7/17/2017 13:10 | 10 | 10 | | | <input type="checkbox"/> | |
| Fluoride, IC | 0.6 | mg/L | EPA 300 | K Baros | 7/12/2017 22:16 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.17 | SU | SM 4500-H+B | C Watts | 7/12/2017 16:45 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 377 | mg/L | SM2540C | C Watts | 7/19/2017 16:15 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/18/2017 12:57 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 74 | mg/L | EPA 300 | K Baros | 7/12/2017 22:16 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 8/14/2017 8:21 | | | | | <input checked="" type="checkbox"/> | ARS International |



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BatchNo: 57717

Sample Report Information



| | | | |
|------------------------------|------------------------|-----------------|---------------|
| Sample ID: S17193162B | Client ID: BV-1 | Sampler: | Client |
|------------------------------|------------------------|-----------------|---------------|

Client: Coleta Creek Power - R Coleman
Study: Water

Batch No: 57717
Sampled: 7/12/2017 11:08 AM

Project: CCR Sampling

Location: BV-1

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 134 | mg/L | EPA 300 | K Baros | 7/12/2017 22:54 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 391 | mg/L | SM 2320 B | | 7/17/2017 13:23 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/17/2017 13:23 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 391 | mg/L | SM 2320 B | | 7/17/2017 13:23 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.75 | mg/L | EPA 300 | K Baros | 7/12/2017 22:54 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.2 | SU | SM 4500-H+B | C Watts | 7/12/2017 16:45 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 380 | mg/L | SM2540C | C Watts | 7/19/2017 16:15 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/18/2017 12:58 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 175 | mg/L | EPA 300 | K Baros | 7/12/2017 22:54 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 8/14/2017 8:21 | | | | | <input checked="" type="checkbox"/> | ARS International |



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BatchNo: 57717

Victoria TX 77901

Sample Report Information



| | | | |
|------------------------------|------------------------|-----------------|---------------|
| Sample ID: S17193162C | Client ID: BV-5 | Sampler: | Client |
|------------------------------|------------------------|-----------------|---------------|

Client: Coleta Creek Power - R Coleman
Study: Water

Batch No: 57717
Sampled: 7/12/2017 11:31 AM

Project: CCR Sampling

Location: BV-5

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 112 | mg/L | EPA 300 | K Baros | 7/12/2017 23:32 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 388 | mg/L | SM 2320 B | | 7/17/2017 13:37 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/17/2017 13:37 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 388 | mg/L | SM 2320 B | | 7/17/2017 13:37 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.56 | mg/L | EPA 300 | K Baros | 7/12/2017 23:32 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 6.95 | SU | SM 4500-H+B | C Watts | 7/12/2017 16:45 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 430 | mg/L | SM2540C | C Watts | 7/19/2017 16:15 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/18/2017 13:00 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 140 | mg/L | EPA 300 | K Baros | 7/12/2017 23:32 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 8/14/2017 8:21 | | | | | <input checked="" type="checkbox"/> | ARS International |



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BatchNo: 57717

Sample Report Information



| | | | |
|------------------------------|-------------------------|-----------------|---------------|
| Sample ID: S17193162D | Client ID: BV-10 | Sampler: | Client |
|------------------------------|-------------------------|-----------------|---------------|

Client: Coleta Creek Power - R Coleman
Study: Water

Batch No: 57717
Sampled: 7/12/2017 10:08 AM

Project: CCR Sampling

Location: BV-10

Type: Grab
Matrix: Water

Notes:

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 84 | mg/L | EPA 300 | K Baros | 7/13/2017 0:11 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 298 | mg/L | SM 2320 B | | 7/17/2017 13:47 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/17/2017 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 298 | mg/L | SM 2320 B | | 7/17/2017 13:47 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.91 | mg/L | EPA 300 | K Baros | 7/13/2017 0:11 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 6.9 | SU | SM 4500-H+B | C Watts | 7/12/2017 16:45 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 537 | mg/L | SM2540C | C Watts | 7/19/2017 16:15 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/18/2017 13:02 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 78 | mg/L | EPA 300 | K Baros | 7/13/2017 0:11 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 8/14/2017 8:21 | | | | | | <input checked="" type="checkbox"/> ARS International |



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BatchNo: 57717

Sample Report Information



| | | |
|------------------------------|-------------------------|------------------------|
| Sample ID: S17193162E | Client ID: BV-19 | Sampler: Client |
|------------------------------|-------------------------|------------------------|

Client: Coletto Creek Power - R Coleman
 Study: Water
 Project: CCR Sampling
 Location: BV-19
 Notes:

Batch No: 57717
 Sampled: 7/12/2017 9:29 AM
 Type: Grab
 Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 142 | mg/L | EPA 300 | K Baros | 7/13/2017 0:49 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 336 | mg/L | SM 2320 B | | 7/17/2017 13:58 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/17/2017 13:58 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 336 | mg/L | SM 2320 B | | 7/17/2017 13:58 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.49 | mg/L | EPA 300 | K Baros | 7/13/2017 0:49 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 6.99 | SU | SM 4500-H+B | C Watts | 7/12/2017 16:45 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 1227 | mg/L | SM2540C | C Watts | 7/19/2017 16:15 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/18/2017 13:24 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 63 | mg/L | EPA 300 | K Baros | 7/13/2017 0:49 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 8/3/2017 10:25 | | | | | <input checked="" type="checkbox"/> | ARS International |



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B Environmental, LLC.
1606 E Brazos, Suite D
Victoria TX 77901

BatchNo: 57717



QA Summary Report

| Parameter | ID | Result | Ref Value | Amt Added | LOQ | Qualifier | Control | Flag | Comments |
|--|------------|-----------|-----------|-----------|------|----------------|----------------|------|---|
| .Method Blank | | | | | | | | | |
| - Chloride, IC 7/12/2017 11:28 | Q172041251 | <1mg/L | 0 | | 1 | | 1 | | Blank Acceptable. |
| Fluoride, IC 7/12/2017 11:28 | Q172041251 | <0.25mg/L | 0 | 0.25 | | | 0.25 | | Blank Acceptable. |
| Solids, Total Dissolved 7/19/2017 16:15 | Q172051409 | <25mg/L | 0 | 10 | | | 25 | | Blank Acceptable. |
| Solids, Total Dissolved 7/19/2017 8:00 | Q172010929 | <25mg/L | 0 | 10 | | | 25 | | Blank Acceptable. |
| Sulfate, IC 7/12/2017 11:28 | Q172041251 | <1mg/L | 0 | | 1 | | 1 | | Blank Acceptable. |
| Duplicate | | | | | | | | | |
| pH (Standard Units) 7/12/2017 16:45 | Q17193165A | 7.28SU | 7.25 | | 2 | 0.4% | 20 | | Duplicate RPD Acceptable. |
| Solids, Total Dissolved 7/19/2017 8:00 | Q172010931 | 4150mg/L | 4110 | | 10 | 1.0% | 20 | | Duplicate RPD Acceptable. |
| Solids, Total Dissolved 7/19/2017 16:15 | Q172051411 | 547mg/L | 537 | | 10 | 1.8% | 20 | | Duplicate RPD Acceptable. |
| Laboratory Control Standard | | | | | | | | | |
| - Chloride, IC 7/12/2017 12:07 | Q172041253 | 24.89mg/L | 25 | | 1 | 99.6% 0.4% | 80 - 120 20 | | Standard Recovery Acceptable. Standard RPD Acceptable. |
| Fluoride, IC 7/12/2017 12:07 | Q172041253 | 1.94mg/L | 2 | 0.25 | | 97.0% 3.0% | 80 - 120 20 | | Standard Recovery Acceptable. Standard RPD Acceptable. |
| pH (Standard Units) 7/12/2017 16:45 | Q171931659 | 7.03SU | 7 | | 2 | 100.4% 0.4% | 80 - 120 20 | | Standard Recovery Acceptable. Standard RPD Acceptable. |
| Sulfate, IC 7/12/2017 12:07 | Q172041253 | 24.95mg/L | 25 | | 1 | 99.8% 0.2% | 80 - 120 20 | | Standard Recovery Acceptable. Standard RPD Acceptable. |
| Matrix Spike | | | | | | | | | |
| - Chloride, IC 7/12/2017 16:33 | Q172041254 | 92.7mg/L | 93.4 | 25 | 1 | 97.2% 0.8% | 80 - 120 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Fluoride, IC 7/12/2017 16:33 | Q172041254 | 2.62mg/L | 2.76 | 2 | 0.25 | 93.0% 5.2% | 80 - 120 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Sulfate, IC 7/12/2017 16:33 | Q172041254 | 103.6mg/L | 104.7 | 25 | 1 | 95.6% 1.1% | 70 - 130 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Matrix Spike Dup | | | | | | | | | |
| - Chloride, IC 7/12/2017 17:11 | Q17204125A | 91.9mg/L | 93.4 | 25 | 1 | 94.0% 1.6% | 80 - 120 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Fluoride, IC 7/12/2017 17:11 | Q17204125A | 2.63mg/L | 2.76 | 2 | 0.25 | 93.5% 4.8% | 80 - 120 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Sulfate, IC 7/12/2017 17:11 | Q17204125A | 102.5mg/L | 104.7 | 25 | 1 | 91.2% 2.1% | 70 - 130 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |



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1606 E Brazos, Suite D

BatchNo: 57717

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Victoria TX 77901

Flag and Qualifier Legend

-  *Negative - Result Detected* *MDL = Method Detection Limit* *DF = Dilution Factor*
-  *Caution - Problem Detected* *LOQ = Limit of Quantitation* *j = Analyte detected between MDL and LOQ*
-  *Warning - Null Value* *S = surrogate standard out of limit* *H = sample out of hold time*
-  **MS, MSD, RPD- Failure may occur due to matrix interference, data released per QA plan**

Wednesday, August 16, 2017

B Environmental - LDMS QA Report Summary

Note:

THANK YOU!



B Environmental, LLC.

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Victoria TX 77901

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DHL Analytical, Inc.

Date: 24-Jul-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Lab Order: 1707099

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition and Standard Methods.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives except where noted in the following. For Total Metals Analysis, the recoveries of three analytes for the Matrix Spike and Matrix Spike Duplicate (1707099-01 MS/MSD) were above the method control limits. These are flagged accordingly in the QC Summary Report. These analytes were within method control limits in the associated LCS. No further corrective action was taken.

For Total Metals Analysis, the RPD of Boron for the Serial Dilution (1707099-01 SD) was above the method control limit. This is flagged accordingly in the QC Summary Report. This analyte was within method control limits in the associated Post Digestion Spike. No further corrective action was taken.

For Total/Dissolved Metals Analysis, the results of Dissolved Lithium/Molybdenum for five of the samples were slightly higher than the results of Total Lithium/Molybdenum. The results were within acceptable analytical variation limits. No further corrective action was taken.

DHL Analytical, Inc.

Date: 24-Jul-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (57717)
Lab Order: 1707099

Client Sample ID: MW-6
Lab ID: 1707099-01
Alternate ID: S171931625
Collection Date: 07/12/17 07:55 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|--------|----------------|-------|------|---------------|----|---------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | | | | Analyst: SP |
| Dissolved Lithium | 8.96 | 5.00 | 10.0 | J | µg/L | 1 | 07/20/17 02:03 PM |
| Dissolved Molybdenum | 7.68 | 2.00 | 5.00 | | µg/L | 1 | 07/20/17 02:03 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | | | | Analyst: RO |
| Antimony | <2.50 | 0.800 | 2.50 | | µg/L | 1 | 07/18/17 12:44 PM |
| Arsenic | 7.70 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 12:44 PM |
| Barium | 81.9 | 3.00 | 10.0 | | µg/L | 1 | 07/18/17 12:44 PM |
| Beryllium | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/19/17 12:11 PM |
| Boron | 1760 | 100 | 300 | | µg/L | 10 | 07/19/17 11:24 AM |
| Cadmium | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/18/17 12:44 PM |
| Calcium | 81600 | 1000 | 3000 | | µg/L | 10 | 07/19/17 11:24 AM |
| Chromium | <5.00 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 12:44 PM |
| Cobalt | <5.00 | 3.00 | 5.00 | | µg/L | 1 | 07/18/17 12:44 PM |
| Lead | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/18/17 12:44 PM |
| Lithium | 8.70 | 5.00 | 10.0 | J | µg/L | 1 | 07/19/17 12:11 PM |
| Magnesium | 8910 | 100 | 300 | | µg/L | 1 | 07/18/17 12:44 PM |
| Molybdenum | 7.60 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 12:44 PM |
| Potassium | 856 | 100 | 300 | | µg/L | 1 | 07/19/17 12:11 PM |
| Selenium | <5.00 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 12:44 PM |
| Sodium | 70600 | 1000 | 3000 | | µg/L | 10 | 07/19/17 11:24 AM |
| Thallium | <1.50 | 0.500 | 1.50 | | µg/L | 1 | 07/18/17 12:44 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | | | Analyst: AH |
| Mercury | <0.200 | 0.0800 | 0.200 | | µg/L | 1 | 07/24/17 10:33 AM |
| ALKALINITY | | M2320 B | | | | | Analyst: BTJ |
| Alkalinity, Bicarbonate (As CaCO3) | 133 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 07/17/17 12:56 PM |
| Alkalinity, Carbonate (As CaCO3) | <20.0 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 07/17/17 12:56 PM |
| Alkalinity, Hydroxide (As CaCO3) | <20.0 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 07/17/17 12:56 PM |
| Alkalinity, Total (As CaCO3) | 133 | 20.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 07/17/17 12:56 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 24-Jul-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (57717)
Lab Order: 1707099

Client Sample ID: MW-7
Lab ID: 1707099-02
Alternate ID: S17193162A
Collection Date: 07/12/17 08:32 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|--------|----------------|-------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 10.6 | 5.00 | 10.0 | | µg/L | 1 | 07/20/17 02:05 PM |
| Dissolved Molybdenum | 9.65 | 2.00 | 5.00 | | µg/L | 1 | 07/20/17 02:05 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: RO | | | |
| Antimony | <2.50 | 0.800 | 2.50 | | µg/L | 1 | 07/18/17 12:57 PM |
| Arsenic | 9.61 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 12:57 PM |
| Barium | 91.5 | 3.00 | 10.0 | | µg/L | 1 | 07/18/17 12:57 PM |
| Beryllium | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/19/17 12:21 PM |
| Boron | 95.2 | 100 | 300 | | µg/L | 10 | 07/19/17 11:28 AM |
| Cadmium | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/18/17 12:57 PM |
| Calcium | 75000 | 1000 | 3000 | | µg/L | 10 | 07/19/17 11:28 AM |
| Chromium | <5.00 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 12:57 PM |
| Cobalt | <5.00 | 3.00 | 5.00 | | µg/L | 1 | 07/18/17 12:57 PM |
| Lead | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/18/17 12:57 PM |
| Lithium | 11.0 | 5.00 | 10.0 | | µg/L | 1 | 07/19/17 12:21 PM |
| Magnesium | 10100 | 100 | 300 | | µg/L | 1 | 07/18/17 12:57 PM |
| Molybdenum | 9.53 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 12:57 PM |
| Potassium | 1250 | 100 | 300 | | µg/L | 1 | 07/19/17 12:21 PM |
| Selenium | <5.00 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 12:57 PM |
| Sodium | 111000 | 1000 | 3000 | | µg/L | 10 | 07/19/17 11:28 AM |
| Thallium | <1.50 | 0.500 | 1.50 | | µg/L | 1 | 07/18/17 12:57 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.200 | 0.0800 | 0.200 | | µg/L | 1 | 07/24/17 10:35 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 258 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/17/17 01:10 PM |
| Alkalinity, Carbonate (As CaCO3) | <20.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/17/17 01:10 PM |
| Alkalinity, Hydroxide (As CaCO3) | <20.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/17/17 01:10 PM |
| Alkalinity, Total (As CaCO3) | 258 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/17/17 01:10 PM |

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 24-Jul-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (57717)
Lab Order: 1707099

Client Sample ID: BV-1
Lab ID: 1707099-03
Alternate ID: S17193162B
Collection Date: 07/12/17 11:08 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|--------|----------------|-------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 15.4 | 5.00 | 10.0 | | µg/L | 1 | 07/20/17 02:07 PM |
| Dissolved Molybdenum | 4.96 | 2.00 | 5.00 | J | µg/L | 1 | 07/20/17 02:07 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: RO | | | |
| Antimony | <2.50 | 0.800 | 2.50 | | µg/L | 1 | 07/18/17 12:58 PM |
| Arsenic | 11.2 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 12:58 PM |
| Barium | 51.4 | 3.00 | 10.0 | | µg/L | 1 | 07/18/17 12:58 PM |
| Beryllium | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/19/17 12:25 PM |
| Boron | 1310 | 100 | 300 | | µg/L | 10 | 07/19/17 11:31 AM |
| Cadmium | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/18/17 12:58 PM |
| Calcium | 75500 | 1000 | 3000 | | µg/L | 10 | 07/19/17 11:31 AM |
| Chromium | 11.9 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 12:58 PM |
| Cobalt | 406 | 3.00 | 5.00 | | µg/L | 1 | 07/18/17 12:58 PM |
| Lead | 4.46 | 0.300 | 1.00 | | µg/L | 1 | 07/18/17 12:58 PM |
| Lithium | 16.7 | 5.00 | 10.0 | | µg/L | 1 | 07/19/17 12:25 PM |
| Magnesium | 11500 | 100 | 300 | | µg/L | 1 | 07/18/17 12:58 PM |
| Molybdenum | 4.91 | 2.00 | 5.00 | J | µg/L | 1 | 07/18/17 12:58 PM |
| Potassium | 765 | 100 | 300 | | µg/L | 1 | 07/19/17 12:25 PM |
| Selenium | <5.00 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 12:58 PM |
| Sodium | 268000 | 5000 | 15000 | | µg/L | 50 | 07/19/17 11:29 AM |
| Thallium | <1.50 | 0.500 | 1.50 | | µg/L | 1 | 07/18/17 12:58 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.200 | 0.0800 | 0.200 | | µg/L | 1 | 07/24/17 10:42 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 391 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/17/17 01:23 PM |
| Alkalinity, Carbonate (As CaCO3) | <20.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/17/17 01:23 PM |
| Alkalinity, Hydroxide (As CaCO3) | <20.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/17/17 01:23 PM |
| Alkalinity, Total (As CaCO3) | 391 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/17/17 01:23 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 24-Jul-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR Sampling (57717)
Lab Order: 1707099

Client Sample ID: BV-5
Lab ID: 1707099-04
Alternate ID: S17193162C
Collection Date: 07/12/17 11:31 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|--------|----------------|-------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 20.0 | 5.00 | 10.0 | | µg/L | 1 | 07/20/17 02:09 PM |
| Dissolved Molybdenum | 9.44 | 2.00 | 5.00 | | µg/L | 1 | 07/20/17 02:09 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: RO | | | |
| Antimony | <2.50 | 0.800 | 2.50 | | µg/L | 1 | 07/18/17 01:00 PM |
| Arsenic | 8.49 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 01:00 PM |
| Barium | 41.6 | 3.00 | 10.0 | | µg/L | 1 | 07/18/17 01:00 PM |
| Beryllium | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/19/17 12:28 PM |
| Boron | 107.0 | 100 | 300 | | µg/L | 10 | 07/19/17 11:33 AM |
| Cadmium | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/18/17 01:00 PM |
| Calcium | 96800 | 1000 | 3000 | | µg/L | 10 | 07/19/17 11:33 AM |
| Chromium | <5.00 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 01:00 PM |
| Cobalt | 48.4 | 3.00 | 5.00 | | µg/L | 1 | 07/18/17 01:00 PM |
| Lead | 0.609 | 0.300 | 1.00 | J | µg/L | 1 | 07/18/17 01:00 PM |
| Lithium | 18.8 | 5.00 | 10.0 | | µg/L | 1 | 07/19/17 12:28 PM |
| Magnesium | 18000 | 100 | 300 | | µg/L | 1 | 07/18/17 01:00 PM |
| Molybdenum | 9.60 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 01:00 PM |
| Potassium | 191 | 100 | 300 | J | µg/L | 1 | 07/19/17 12:28 PM |
| Selenium | <5.00 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 01:00 PM |
| Sodium | 179000 | 1000 | 3000 | | µg/L | 10 | 07/19/17 11:33 AM |
| Thallium | <1.50 | 0.500 | 1.50 | | µg/L | 1 | 07/18/17 01:00 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.200 | 0.0800 | 0.200 | | µg/L | 1 | 07/24/17 10:44 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 388 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/17/17 01:37 PM |
| Alkalinity, Carbonate (As CaCO3) | <20.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/17/17 01:37 PM |
| Alkalinity, Hydroxide (As CaCO3) | <20.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/17/17 01:37 PM |
| Alkalinity, Total (As CaCO3) | 388 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/17/17 01:37 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 24-Jul-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR Sampling (57717)
Lab Order: 1707099

Client Sample ID: BV-10
Lab ID: 1707099-05
Alternate ID: S17193162D
Collection Date: 07/12/17 10:08 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|--------|----------------|-------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 11.1 | 5.00 | 10.0 | | µg/L | 1 | 07/20/17 02:11 PM |
| Dissolved Molybdenum | 8.24 | 2.00 | 5.00 | | µg/L | 1 | 07/20/17 02:11 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: RO | | | |
| Antimony | <2.50 | 0.800 | 2.50 | | µg/L | 1 | 07/18/17 01:02 PM |
| Arsenic | 13.2 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 01:02 PM |
| Barium | 50.1 | 3.00 | 10.0 | | µg/L | 1 | 07/18/17 01:02 PM |
| Beryllium | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/19/17 12:32 PM |
| Boron | 1170 | 100 | 300 | | µg/L | 10 | 07/19/17 11:35 AM |
| Cadmium | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/18/17 01:02 PM |
| Calcium | 47200 | 1000 | 3000 | | µg/L | 10 | 07/19/17 11:35 AM |
| Chromium | 5.08 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 01:02 PM |
| Cobalt | 222 | 3.00 | 5.00 | | µg/L | 1 | 07/18/17 01:02 PM |
| Lead | 5.58 | 0.300 | 1.00 | | µg/L | 1 | 07/18/17 01:02 PM |
| Lithium | 12.0 | 5.00 | 10.0 | | µg/L | 1 | 07/19/17 12:32 PM |
| Magnesium | 7560 | 100 | 300 | | µg/L | 1 | 07/18/17 01:02 PM |
| Molybdenum | 8.29 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 01:02 PM |
| Potassium | 766 | 100 | 300 | | µg/L | 1 | 07/19/17 12:32 PM |
| Selenium | <5.00 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 01:02 PM |
| Sodium | 173000 | 1000 | 3000 | | µg/L | 10 | 07/19/17 11:35 AM |
| Thallium | <1.50 | 0.500 | 1.50 | | µg/L | 1 | 07/18/17 01:02 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | <0.200 | 0.0800 | 0.200 | | µg/L | 1 | 07/24/17 10:47 AM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 298 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/17/17 01:47 PM |
| Alkalinity, Carbonate (As CaCO3) | <20.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/17/17 01:47 PM |
| Alkalinity, Hydroxide (As CaCO3) | <20.0 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/17/17 01:47 PM |
| Alkalinity, Total (As CaCO3) | 298 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/17/17 01:47 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative
 DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern
 J Analyte detected between MDL and RL
 MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 24-Jul-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR Sampling (57717)
Lab Order: 1707099

Client Sample ID: BV-19
Lab ID: 1707099-06
Alternate ID: S17193162E
Collection Date: 07/12/17 09:29 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|--------|----------------|-------|------|----------------|----|---------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | | | | Analyst: SP |
| Dissolved Lithium | 15.3 | 5.00 | 10.0 | | µg/L | 1 | 07/20/17 02:13 PM |
| Dissolved Molybdenum | 4.67 | 2.00 | 5.00 | J | µg/L | 1 | 07/20/17 02:13 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | | | | Analyst: RO |
| Antimony | <2.50 | 0.800 | 2.50 | | µg/L | 1 | 07/18/17 01:24 PM |
| Arsenic | 8.33 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 01:24 PM |
| Barium | 94.7 | 3.00 | 10.0 | | µg/L | 1 | 07/18/17 01:24 PM |
| Beryllium | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/19/17 12:36 PM |
| Boron | 908 | 100 | 300 | | µg/L | 10 | 07/19/17 11:37 AM |
| Cadmium | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/18/17 01:24 PM |
| Calcium | 118000 | 1000 | 3000 | | µg/L | 10 | 07/19/17 11:37 AM |
| Chromium | <5.00 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 01:24 PM |
| Cobalt | <5.00 | 3.00 | 5.00 | | µg/L | 1 | 07/18/17 01:24 PM |
| Lead | <1.00 | 0.300 | 1.00 | | µg/L | 1 | 07/18/17 01:24 PM |
| Lithium | 14.4 | 5.00 | 10.0 | | µg/L | 1 | 07/19/17 12:36 PM |
| Magnesium | 25400 | 1000 | 3000 | | µg/L | 10 | 07/19/17 11:37 AM |
| Molybdenum | 4.76 | 2.00 | 5.00 | J | µg/L | 1 | 07/18/17 01:24 PM |
| Potassium | 695 | 100 | 300 | | µg/L | 1 | 07/19/17 12:36 PM |
| Selenium | <5.00 | 2.00 | 5.00 | | µg/L | 1 | 07/18/17 01:24 PM |
| Sodium | 93900 | 1000 | 3000 | | µg/L | 10 | 07/19/17 11:37 AM |
| Thallium | <1.50 | 0.500 | 1.50 | | µg/L | 1 | 07/18/17 01:24 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | | | Analyst: AH |
| Mercury | <0.200 | 0.0800 | 0.200 | | µg/L | 1 | 07/24/17 10:49 AM |
| ALKALINITY | | M2320 B | | | | | Analyst: BTJ |
| Alkalinity, Bicarbonate (As CaCO3) | 336 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 07/17/17 01:58 PM |
| Alkalinity, Carbonate (As CaCO3) | <20.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 07/17/17 01:58 PM |
| Alkalinity, Hydroxide (As CaCO3) | <20.0 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 07/17/17 01:58 PM |
| Alkalinity, Total (As CaCO3) | 336 | 20.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 07/17/17 01:58 PM |

Qualifiers:

| | | | |
|-----|---|----|---|
| * | Value exceeds TCLP Maximum Concentration Level | B | Analyte detected in the associated Method Blank |
| C | Sample Result or QC discussed in the Case Narrative | DF | Dilution Factor |
| E | TPH pattern not Gas or Diesel Range Pattern | J | Analyte detected between MDL and RL |
| MDL | Method Detection Limit | ND | Not Detected at the Method Detection Limit |
| RL | Reporting Limit | S | Spike Recovery outside control limits |

Page 6 of 6

DHL Analytical, Inc.

Date: 24-Jul-17

CLIENT: B-Environmental
 Work Order: 1707099
 Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_170724B

The QC data in batch 81523 applies to the following samples: 1707099-01A, 1707099-02A, 1707099-03A, 1707099-04A, 1707099-05A, 1707099-06A

| | | | | | | | |
|-----------|----------|-----------|------------------|----------------|----------------------|------------|-----------|
| Sample ID | MB-81523 | Batch ID: | 81523 | TestNo: | SW7470A | Units: | µg/L |
| SampType: | MBLK | Run ID: | CETAC2_HG_170724 | Analysis Date: | 7/24/2017 9:59:29 AM | Prep Date: | 7/21/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | <0.200 | 0.200 | | | | | | | | |

| | | | | | | | |
|-----------|-----------|-----------|------------------|----------------|-----------------------|------------|-----------|
| Sample ID | LCS-81523 | Batch ID: | 81523 | TestNo: | SW7470A | Units: | µg/L |
| SampType: | LCS | Run ID: | CETAC2_HG_170724 | Analysis Date: | 7/24/2017 10:01:45 AM | Prep Date: | 7/21/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 2.00 | 0.200 | 2.000 | 0 | 100 | 85 | 115 | | | |

| | | | | | | | |
|-----------|------------|-----------|------------------|----------------|-----------------------|------------|-----------|
| Sample ID | LCSD-81523 | Batch ID: | 81523 | TestNo: | SW7470A | Units: | µg/L |
| SampType: | LCSD | Run ID: | CETAC2_HG_170724 | Analysis Date: | 7/24/2017 10:04:01 AM | Prep Date: | 7/21/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 1.92 | 0.200 | 2.000 | 0 | 96.0 | 85 | 115 | 4.08 | 15 | |

| | | | | | | | |
|-----------|----------------|-----------|------------------|----------------|-----------------------|------------|-----------|
| Sample ID | 1707095-05A SD | Batch ID: | 81523 | TestNo: | SW7470A | Units: | µg/L |
| SampType: | SD | Run ID: | CETAC2_HG_170724 | Analysis Date: | 7/24/2017 10:17:38 AM | Prep Date: | 7/21/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | <1.00 | 1.00 | 0 | 0 | | | | 0 | 10 | |

| | | | | | | | |
|-----------|-----------------|-----------|------------------|----------------|-----------------------|------------|-----------|
| Sample ID | 1707095-05A PDS | Batch ID: | 81523 | TestNo: | SW7470A | Units: | µg/L |
| SampType: | PDS | Run ID: | CETAC2_HG_170724 | Analysis Date: | 7/24/2017 10:19:54 AM | Prep Date: | 7/21/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 2.32 | 0.200 | 2.500 | 0 | 92.8 | 85 | 115 | | | |

| | | | | | | | |
|-----------|----------------|-----------|------------------|----------------|-----------------------|------------|-----------|
| Sample ID | 1707095-05A MS | Batch ID: | 81523 | TestNo: | SW7470A | Units: | µg/L |
| SampType: | MS | Run ID: | CETAC2_HG_170724 | Analysis Date: | 7/24/2017 10:22:10 AM | Prep Date: | 7/21/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 1.97 | 0.200 | 2.000 | 0 | 98.5 | 80 | 120 | | | |

| | | | | | | | |
|-----------|-----------------|-----------|------------------|----------------|-----------------------|------------|-----------|
| Sample ID | 1707095-05A MSD | Batch ID: | 81523 | TestNo: | SW7470A | Units: | µg/L |
| SampType: | MSD | Run ID: | CETAC2_HG_170724 | Analysis Date: | 7/24/2017 10:24:26 AM | Prep Date: | 7/21/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 1.90 | 0.200 | 2.000 | 0 | 95.0 | 80 | 120 | 3.62 | 15 | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1707099
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170720C

The QC data in batch 81443 applies to the following samples: 1707099-01B, 1707099-02B, 1707099-03B, 1707099-04B, 1707099-05B, 1707099-06B

| Sample ID MB-81443 | Batch ID: 81443 | TestNo: SW6020A | Units: µg/L | | | | | | | |
|---------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: MBLK | Run ID: ICP-MS4_170720C | Analysis Date: 7/20/2017 1:11:00 PM | Prep Date: 7/17/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | <10.0 | 10.0 | | | | | | | | |
| Molybdenum | <5.00 | 5.00 | | | | | | | | |

| Sample ID LCS-81443 | Batch ID: 81443 | TestNo: SW6020A | Units: µg/L | | | | | | | |
|----------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: LCS | Run ID: ICP-MS4_170720C | Analysis Date: 7/20/2017 1:13:00 PM | Prep Date: 7/17/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 207 | 10.0 | 200.0 | 0 | 103 | 80 | 120 | | | |
| Molybdenum | 196 | 5.00 | 200.0 | 0 | 98.2 | 80 | 120 | | | |

| Sample ID LCSD-81443 | Batch ID: 81443 | TestNo: SW6020A | Units: µg/L | | | | | | | |
|-----------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: LCSD | Run ID: ICP-MS4_170720C | Analysis Date: 7/20/2017 1:15:00 PM | Prep Date: 7/17/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 210 | 10.0 | 200.0 | 0 | 105 | 80 | 120 | 1.41 | 15 | |
| Molybdenum | 200 | 5.00 | 200.0 | 0 | 100 | 80 | 120 | 1.78 | 15 | |

| Sample ID 1707095-05B SD | Batch ID: 81443 | TestNo: SW6020A | Units: µg/L | | | | | | | |
|---------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|-------|----------|------|
| SampType: SD | Run ID: ICP-MS4_170720C | Analysis Date: 7/20/2017 1:21:00 PM | Prep Date: 7/17/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | <50.0 | 50.0 | 0 | 12.92 | | | | 0 | 10 | |
| Molybdenum | 124 | 25.0 | 0 | 124.2 | | | | 0.034 | 10 | |

| Sample ID 1707095-05B PDS | Batch ID: 81443 | TestNo: SW6020A | Units: µg/L | | | | | | | |
|----------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: PDS | Run ID: ICP-MS4_170720C | Analysis Date: 7/20/2017 1:41:00 PM | Prep Date: 7/17/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 211 | 10.0 | 200.0 | 12.92 | 99.1 | 80 | 120 | | | |
| Molybdenum | 315 | 5.00 | 200.0 | 124.2 | 95.3 | 80 | 120 | | | |

| Sample ID 1707095-05B MS | Batch ID: 81443 | TestNo: SW6020A | Units: µg/L | | | | | | | |
|---------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: MS | Run ID: ICP-MS4_170720C | Analysis Date: 7/20/2017 1:42:00 PM | Prep Date: 7/17/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 208 | 10.0 | 200.0 | 12.92 | 97.3 | 80 | 120 | | | |
| Molybdenum | 324 | 5.00 | 200.0 | 124.2 | 99.9 | 80 | 120 | | | |

- | | |
|--|---|
| <p>Qualifiers:</p> <ul style="list-style-type: none"> B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | <ul style="list-style-type: none"> DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified |
|--|---|

CLIENT: B-Environmental
Work Order: 1707099
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170720C

| Sample ID | 1707095-05B MSD | Batch ID: | 81443 | TestNo: | SW6020A | Units: | µg/L | | | |
|------------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|-------|----------|------|
| SampType: | MSD | Run ID: | ICP-MS4_170720C | Analysis Date: | 7/20/2017 1:44:00 PM | Prep Date: | 7/17/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 208 | 10.0 | 200.0 | 12.92 | 97.6 | 80 | 120 | 0.236 | 15 | |
| Molybdenum | 319 | 5.00 | 200.0 | 124.2 | 97.5 | 80 | 120 | 1.49 | 15 | |

Qualifiers:
 B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL

DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1707099
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170718A

The QC data in batch 81434 applies to the following samples: 1707099-01A, 1707099-02A, 1707099-03A, 1707099-04A, 1707099-05A, 1707099-06A

| | | | |
|---------------------------|--------------------------------|---|-----------------------------|
| Sample ID MB-81434 | Batch ID: 81434 | TestNo: SW6020A | Units: µg/L |
| SampType: MBLK | Run ID: ICP-MS5_170718A | Analysis Date: 7/18/2017 12:37:00 PM | Prep Date: 7/17/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | <2.50 | 2.50 | | | | | | | | |
| Arsenic | <5.00 | 5.00 | | | | | | | | |
| Barium | <10.0 | 10.0 | | | | | | | | |
| Cadmium | <1.00 | 1.00 | | | | | | | | |
| Calcium | <300 | 300 | | | | | | | | |
| Chromium | <5.00 | 5.00 | | | | | | | | |
| Cobalt | <5.00 | 5.00 | | | | | | | | |
| Lead | <1.00 | 1.00 | | | | | | | | |
| Magnesium | <300 | 300 | | | | | | | | |
| Molybdenum | <5.00 | 5.00 | | | | | | | | |
| Selenium | <5.00 | 5.00 | | | | | | | | |
| Sodium | <300 | 300 | | | | | | | | |
| Thallium | <1.50 | 1.50 | | | | | | | | |

| | | | |
|----------------------------|--------------------------------|---|-----------------------------|
| Sample ID LCS-81434 | Batch ID: 81434 | TestNo: SW6020A | Units: µg/L |
| SampType: LCS | Run ID: ICP-MS5_170718A | Analysis Date: 7/18/2017 12:39:00 PM | Prep Date: 7/17/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 194 | 2.50 | 200.0 | 0 | 97.1 | 80 | 120 | | | |
| Arsenic | 199 | 5.00 | 200.0 | 0 | 99.5 | 80 | 120 | | | |
| Barium | 195 | 10.0 | 200.0 | 0 | 97.5 | 80 | 120 | | | |
| Cadmium | 191 | 1.00 | 200.0 | 0 | 95.4 | 80 | 120 | | | |
| Calcium | 5200 | 300 | 5000 | 0 | 104 | 80 | 120 | | | |
| Chromium | 206 | 5.00 | 200.0 | 0 | 103 | 80 | 120 | | | |
| Cobalt | 206 | 5.00 | 200.0 | 0 | 103 | 80 | 120 | | | |
| Lead | 195 | 1.00 | 200.0 | 0 | 97.4 | 80 | 120 | | | |
| Magnesium | 5100 | 300 | 5000 | 0 | 102 | 80 | 120 | | | |
| Molybdenum | 194 | 5.00 | 200.0 | 0 | 97.0 | 80 | 120 | | | |
| Selenium | 194 | 5.00 | 200.0 | 0 | 96.8 | 80 | 120 | | | |
| Sodium | 5170 | 300 | 5000 | 0 | 103 | 80 | 120 | | | |
| Thallium | 204 | 1.50 | 200.0 | 0 | 102 | 80 | 120 | | | |

| | | | |
|-----------------------------|--------------------------------|---|-----------------------------|
| Sample ID LCSD-81434 | Batch ID: 81434 | TestNo: SW6020A | Units: µg/L |
| SampType: LCSD | Run ID: ICP-MS5_170718A | Analysis Date: 7/18/2017 12:41:00 PM | Prep Date: 7/17/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | 194 | 2.50 | 200.0 | 0 | 96.8 | 80 | 120 | 0.406 | 15 | |
| Arsenic | 199 | 5.00 | 200.0 | 0 | 99.3 | 80 | 120 | 0.233 | 15 | |
| Barium | 196 | 10.0 | 200.0 | 0 | 98.0 | 80 | 120 | 0.521 | 15 | |
| Cadmium | 189 | 1.00 | 200.0 | 0 | 94.5 | 80 | 120 | 0.932 | 15 | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1707099
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170718A

| | | | | | | | |
|-----------|------------|-----------|-----------------|----------------|-----------------------|------------|-----------|
| Sample ID | LCSD-81434 | Batch ID: | 81434 | TestNo: | SW6020A | Units: | µg/L |
| SampType: | LCSD | Run ID: | ICP-MS5_170718A | Analysis Date: | 7/18/2017 12:41:00 PM | Prep Date: | 7/17/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| Calcium | 5230 | 300 | 5000 | 0 | 105 | 80 | 120 | 0.605 | 15 | |
| Chromium | 206 | 5.00 | 200.0 | 0 | 103 | 80 | 120 | 0.203 | 15 | |
| Cobalt | 204 | 5.00 | 200.0 | 0 | 102 | 80 | 120 | 0.945 | 15 | |
| Lead | 194 | 1.00 | 200.0 | 0 | 96.8 | 80 | 120 | 0.560 | 15 | |
| Magnesium | 5100 | 300 | 5000 | 0 | 102 | 80 | 120 | 0.022 | 15 | |
| Molybdenum | 193 | 5.00 | 200.0 | 0 | 96.4 | 80 | 120 | 0.619 | 15 | |
| Selenium | 194 | 5.00 | 200.0 | 0 | 96.8 | 80 | 120 | 0.060 | 15 | |
| Sodium | 5180 | 300 | 5000 | 0 | 104 | 80 | 120 | 0.301 | 15 | |
| Thallium | 201 | 1.50 | 200.0 | 0 | 101 | 80 | 120 | 1.32 | 15 | |

| | | | | | | | |
|-----------|----------------|-----------|-----------------|----------------|-----------------------|------------|-----------|
| Sample ID | 1707099-01A SD | Batch ID: | 81434 | TestNo: | SW6020A | Units: | µg/L |
| SampType: | SD | Run ID: | ICP-MS5_170718A | Analysis Date: | 7/18/2017 12:46:00 PM | Prep Date: | 7/17/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | <12.5 | 12.5 | 0 | 0 | | | | 0 | 10 | |
| Arsenic | <25.0 | 25.0 | 0 | 7.697 | | | | 0 | 10 | |
| Barium | 83.2 | 50.0 | 0 | 81.90 | | | | 1.52 | 10 | |
| Cadmium | <5.00 | 5.00 | 0 | 0 | | | | 0 | 10 | |
| Chromium | <25.0 | 25.0 | 0 | 0 | | | | 0 | 10 | |
| Cobalt | <25.0 | 25.0 | 0 | 0 | | | | 0 | 10 | |
| Lead | <5.00 | 5.00 | 0 | 0 | | | | 0 | 10 | |
| Magnesium | 9080 | 1500 | 0 | 8910 | | | | 1.85 | 10 | |
| Molybdenum | <25.0 | 25.0 | 0 | 7.595 | | | | 0 | 10 | |
| Selenium | <25.0 | 25.0 | 0 | 0 | | | | 0 | 10 | |
| Thallium | <7.50 | 7.50 | 0 | 0 | | | | 0 | 10 | |

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|
| Sample ID | 1707099-01A PDS | Batch ID: | 81434 | TestNo: | SW6020A | Units: | µg/L |
| SampType: | PDS | Run ID: | ICP-MS5_170718A | Analysis Date: | 7/18/2017 1:04:00 PM | Prep Date: | 7/17/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 200 | 2.50 | 200.0 | 0 | 100 | 80 | 120 | | | |
| Arsenic | 206 | 5.00 | 200.0 | 7.697 | 99.1 | 80 | 120 | | | |
| Barium | 280 | 10.0 | 200.0 | 81.90 | 99.2 | 80 | 120 | | | |
| Cadmium | 196 | 1.00 | 200.0 | 0 | 97.9 | 80 | 120 | | | |
| Chromium | 217 | 5.00 | 200.0 | 0 | 109 | 80 | 120 | | | |
| Cobalt | 208 | 5.00 | 200.0 | 0 | 104 | 80 | 120 | | | |
| Lead | 199 | 1.00 | 200.0 | 0 | 99.6 | 80 | 120 | | | |
| Magnesium | 13400 | 300 | 5000 | 8910 | 90.2 | 80 | 120 | | | |
| Molybdenum | 205 | 5.00 | 200.0 | 7.595 | 98.7 | 80 | 120 | | | |
| Selenium | 188 | 5.00 | 200.0 | 0 | 93.8 | 80 | 120 | | | |
| Thallium | 210 | 1.50 | 200.0 | 0 | 105 | 80 | 120 | | | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental

Work Order: 1707099

Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170718A

| | | | | | | | |
|-----------|----------------|-----------|-----------------|----------------|----------------------|------------|-----------|
| Sample ID | 1707099-01A MS | Batch ID: | 81434 | TestNo: | SW6020A | Units: | µg/L |
| SampType: | MS | Run ID: | ICP-MS5_170718A | Analysis Date: | 7/18/2017 1:05:00 PM | Prep Date: | 7/17/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 198 | 2.50 | 200.0 | 0 | 99.1 | 80 | 120 | | | |
| Arsenic | 207 | 5.00 | 200.0 | 7.697 | 99.4 | 80 | 120 | | | |
| Barium | 285 | 10.0 | 200.0 | 81.90 | 101 | 80 | 120 | | | |
| Cadmium | 191 | 1.00 | 200.0 | 0 | 95.4 | 80 | 120 | | | |
| Calcium | 88600 | 300 | 5000 | 81390 | 145 | 80 | 120 | | | S |
| Chromium | 213 | 5.00 | 200.0 | 0 | 107 | 80 | 120 | | | |
| Cobalt | 205 | 5.00 | 200.0 | 0 | 102 | 80 | 120 | | | |
| Lead | 199 | 1.00 | 200.0 | 0 | 99.4 | 80 | 120 | | | |
| Magnesium | 14300 | 300 | 5000 | 8910 | 108 | 80 | 120 | | | |
| Molybdenum | 206 | 5.00 | 200.0 | 7.595 | 99.0 | 80 | 120 | | | |
| Selenium | 190 | 5.00 | 200.0 | 0 | 94.8 | 80 | 120 | | | |
| Sodium | 75800 | 300 | 5000 | 67720 | 162 | 80 | 120 | | | S |
| Thallium | 213 | 1.50 | 200.0 | 0 | 107 | 80 | 120 | | | |

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|
| Sample ID | 1707099-01A MSD | Batch ID: | 81434 | TestNo: | SW6020A | Units: | µg/L |
| SampType: | MSD | Run ID: | ICP-MS5_170718A | Analysis Date: | 7/18/2017 1:07:00 PM | Prep Date: | 7/17/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | 197 | 2.50 | 200.0 | 0 | 98.6 | 80 | 120 | 0.451 | 15 | |
| Arsenic | 205 | 5.00 | 200.0 | 7.697 | 98.7 | 80 | 120 | 0.725 | 15 | |
| Barium | 285 | 10.0 | 200.0 | 81.90 | 102 | 80 | 120 | 0.186 | 15 | |
| Cadmium | 191 | 1.00 | 200.0 | 0 | 95.4 | 80 | 120 | 0.014 | 15 | |
| Calcium | 88100 | 300 | 5000 | 81390 | 134 | 80 | 120 | 0.637 | 15 | S |
| Chromium | 209 | 5.00 | 200.0 | 0 | 104 | 80 | 120 | 2.03 | 15 | |
| Cobalt | 202 | 5.00 | 200.0 | 0 | 101 | 80 | 120 | 1.27 | 15 | |
| Lead | 196 | 1.00 | 200.0 | 0 | 98.1 | 80 | 120 | 1.37 | 15 | |
| Magnesium | 14200 | 300 | 5000 | 8910 | 105 | 80 | 120 | 1.01 | 15 | |
| Molybdenum | 205 | 5.00 | 200.0 | 7.595 | 98.7 | 80 | 120 | 0.261 | 15 | |
| Selenium | 185 | 5.00 | 200.0 | 0 | 92.7 | 80 | 120 | 2.16 | 15 | |
| Sodium | 75000 | 300 | 5000 | 67720 | 145 | 80 | 120 | 1.13 | 15 | S |
| Thallium | 207 | 1.50 | 200.0 | 0 | 104 | 80 | 120 | 2.72 | 15 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1707099
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170719A

The QC data in batch 81434 applies to the following samples: 1707099-01A, 1707099-02A, 1707099-03A, 1707099-04A, 1707099-05A, 1707099-06A

| | | | |
|---------------------------|--------------------------------|---|-----------------------------|
| Sample ID MB-81434 | Batch ID: 81434 | TestNo: SW6020A | Units: µg/L |
| SampType: MBLK | Run ID: ICP-MS5_170719A | Analysis Date: 7/19/2017 11:17:00 AM | Prep Date: 7/17/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|-----------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Beryllium | <1.00 | 1.00 | | | | | | | | |
| Boron | <30.0 | 30.0 | | | | | | | | |
| Lithium | <10.0 | 10.0 | | | | | | | | |
| Potassium | <300 | 300 | | | | | | | | |

| | | | |
|----------------------------|--------------------------------|---|-----------------------------|
| Sample ID LCS-81434 | Batch ID: 81434 | TestNo: SW6020A | Units: µg/L |
| SampType: LCS | Run ID: ICP-MS5_170719A | Analysis Date: 7/19/2017 11:19:00 AM | Prep Date: 7/17/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|-----------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Beryllium | 199 | 1.00 | 200.0 | 0 | 99.6 | 80 | 120 | | | |
| Boron | 201 | 30.0 | 200.0 | 0 | 100 | 80 | 120 | | | |
| Lithium | 193 | 10.0 | 200.0 | 0 | 96.7 | 80 | 120 | | | |
| Potassium | 4990 | 300 | 5000 | 0 | 99.9 | 80 | 120 | | | |

| | | | |
|-----------------------------|--------------------------------|---|-----------------------------|
| Sample ID LCSD-81434 | Batch ID: 81434 | TestNo: SW6020A | Units: µg/L |
| SampType: LCSD | Run ID: ICP-MS5_170719A | Analysis Date: 7/19/2017 11:21:00 AM | Prep Date: 7/17/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|-----------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| Beryllium | 199 | 1.00 | 200.0 | 0 | 99.4 | 80 | 120 | 0.173 | 15 | |
| Boron | 212 | 30.0 | 200.0 | 0 | 106 | 80 | 120 | 5.60 | 15 | |
| Lithium | 195 | 10.0 | 200.0 | 0 | 97.3 | 80 | 120 | 0.614 | 15 | |
| Potassium | 4980 | 300 | 5000 | 0 | 99.6 | 80 | 120 | 0.218 | 15 | |

| | | | |
|---------------------------------|--------------------------------|---|-----------------------------|
| Sample ID 1707099-01A SD | Batch ID: 81434 | TestNo: SW6020A | Units: µg/L |
| SampType: SD | Run ID: ICP-MS5_170719A | Analysis Date: 7/19/2017 11:26:00 AM | Prep Date: 7/17/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|-------|----------|------|
| Boron | 2140 | 1500 | 0 | 1760 | | | | 19.3 | 10 | R |
| Calcium | 81800 | 15000 | 0 | 81650 | | | | 0.139 | 10 | |
| Sodium | 70400 | 15000 | 0 | 70590 | | | | 0.323 | 10 | |

| | | | |
|----------------------------------|--------------------------------|---|-----------------------------|
| Sample ID 1707099-01A PDS | Batch ID: 81434 | TestNo: SW6020A | Units: µg/L |
| SampType: PDS | Run ID: ICP-MS5_170719A | Analysis Date: 7/19/2017 11:44:00 AM | Prep Date: 7/17/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Boron | 4070 | 300 | 2000 | 1760 | 115 | 80 | 120 | | | |
| Calcium | 141000 | 3000 | 50000 | 81650 | 118 | 80 | 120 | | | |
| Sodium | 129000 | 3000 | 50000 | 70590 | 117 | 80 | 120 | | | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1707099
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170719A

| Sample ID | 1707099-01A MS | Batch ID: | 81434 | TestNo: | SW6020A | Units: | µg/L | | | |
|-----------|----------------|-----------|-----------------|----------------|-----------------------|------------|-----------|------|----------|------|
| SampType: | MS | Run ID: | ICP-MS5_170719A | Analysis Date: | 7/19/2017 11:45:00 AM | Prep Date: | 7/17/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Beryllium | 194 | 10.0 | 200.0 | 0 | 97.0 | 80 | 120 | | | |
| Boron | 2100 | 300 | 200.0 | 1760 | 171 | 80 | 120 | | | S |
| Lithium | 225 | 100 | 200.0 | 0 | 113 | 80 | 120 | | | |
| Potassium | 5930 | 3000 | 5000 | 0 | 119 | 80 | 120 | | | |

| Sample ID | 1707099-01A MSD | Batch ID: | 81434 | TestNo: | SW6020A | Units: | µg/L | | | |
|-----------|-----------------|-----------|-----------------|----------------|-----------------------|------------|-----------|-------|----------|------|
| SampType: | MSD | Run ID: | ICP-MS5_170719A | Analysis Date: | 7/19/2017 11:47:00 AM | Prep Date: | 7/17/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Beryllium | 198 | 10.0 | 200.0 | 0 | 98.9 | 80 | 120 | 1.96 | 15 | |
| Boron | 2020 | 300 | 200.0 | 1760 | 132 | 80 | 120 | 3.79 | 15 | S |
| Lithium | 226 | 100 | 200.0 | 0 | 113 | 80 | 120 | 0.035 | 15 | |
| Potassium | 5750 | 3000 | 5000 | 0 | 115 | 80 | 120 | 2.94 | 15 | |

| Sample ID | 1707099-01A SD | Batch ID: | 81434 | TestNo: | SW6020A | Units: | µg/L | | | |
|-----------|----------------|-----------|-----------------|----------------|-----------------------|------------|-----------|------|----------|------|
| SampType: | SD | Run ID: | ICP-MS5_170719A | Analysis Date: | 7/19/2017 12:12:00 PM | Prep Date: | 7/17/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Beryllium | <5.00 | 5.00 | 0 | 0 | | | | 0 | 10 | |
| Lithium | <50.0 | 50.0 | 0 | 8.703 | | | | 0 | 10 | |
| Potassium | 827 | 1500 | 0 | 855.6 | | | | 3.35 | 10 | |

| Sample ID | 1707099-01A PDS | Batch ID: | 81434 | TestNo: | SW6020A | Units: | µg/L | | | |
|-----------|-----------------|-----------|-----------------|----------------|-----------------------|------------|-----------|------|----------|------|
| SampType: | PDS | Run ID: | ICP-MS5_170719A | Analysis Date: | 7/19/2017 12:39:00 PM | Prep Date: | 7/17/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Beryllium | 211 | 1.00 | 200.0 | 0 | 105 | 80 | 120 | | | |
| Lithium | 223 | 10.0 | 200.0 | 8.703 | 107 | 80 | 120 | | | |
| Potassium | 5600 | 300 | 5000 | 855.6 | 94.8 | 80 | 120 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental

Work Order: 1707099

Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_170717B

The QC data in batch 81431 applies to the following samples: 1707099-01C, 1707099-02C, 1707099-03C, 1707099-04C, 1707099-05C, 1707099-06C

| | | | | | | | |
|-----------|-----------------|-----------|-------------------------|----------------|------------------------------|------------|----------------------|
| Sample ID | MB-81431 | Batch ID: | 81431 | TestNo: | M2320 B | Units: | mg/L @ pH 4.2 |
| SampType: | MBLK | Run ID: | TITRATOR_170717B | Analysis Date: | 7/17/2017 12:13:00 PM | Prep Date: | 7/17/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | <20.0 | 20.0 | | | | | | | | |
| Alkalinity, Carbonate (As CaCO3) | <20.0 | 20.0 | | | | | | | | |
| Alkalinity, Hydroxide (As CaCO3) | <20.0 | 20.0 | | | | | | | | |
| Alkalinity, Total (As CaCO3) | <20.0 | 20.0 | | | | | | | | |

| | | | | | | | |
|-----------|------------------|-----------|-------------------------|----------------|------------------------------|------------|-----------------------|
| Sample ID | LCS-81431 | Batch ID: | 81431 | TestNo: | M2320 B | Units: | mg/L @ pH 4.22 |
| SampType: | LCS | Run ID: | TITRATOR_170717B | Analysis Date: | 7/17/2017 12:17:00 PM | Prep Date: | 7/17/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Total (As CaCO3) | 50.5 | 20.0 | 50.00 | 0 | 101 | 74 | 129 | | | |

| | | | | | | | |
|-----------|------------------------|-----------|-------------------------|----------------|-----------------------------|------------|----------------------|
| Sample ID | 1707099-01C-DUP | Batch ID: | 81431 | TestNo: | M2320 B | Units: | mg/L @ pH 4.5 |
| SampType: | DUP | Run ID: | TITRATOR_170717B | Analysis Date: | 7/17/2017 1:02:00 PM | Prep Date: | 7/17/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | 184 | 20.0 | 0 | 183.1 | | | | 0.382 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | <20.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | <20.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | 184 | 20.0 | 0 | 183.1 | | | | 0.382 | 20 | |

| | | | | | | | |
|-----------|------------------------|-----------|-------------------------|----------------|-----------------------------|------------|----------------------|
| Sample ID | 1707107-01C-DUP | Batch ID: | 81431 | TestNo: | M2320 B | Units: | mg/L @ pH 4.5 |
| SampType: | DUP | Run ID: | TITRATOR_170717B | Analysis Date: | 7/17/2017 2:06:00 PM | Prep Date: | 7/17/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | 61.8 | 20.0 | 0 | 60.90 | | | | 1.47 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | <20.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | <20.0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | 61.8 | 20.0 | 0 | 60.90 | | | | 1.47 | 20 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL

DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

2609 North River Road, Port Allen, Louisiana 70767
(800) 401-4277 -- FAX (225) 381-2996



ARS International, LLC

Laboratory Analysis Report

ARS1-17-02107

Prepared for:

B-Environmental

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Fax: 361-572-4115**

Project Manager Review

Management Review

Notes: ARS International, LLC assumes no liability for the use or the interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

Contact Person: Questions regarding this analytical report should be addressed to:

**Project Manager
ProjectManagers@amrad.com**

**Phone: 225.381.2991
Fax: 225.381.2996**



LELAP Cert# 01949



2609 North River Road, Port Allen, Louisiana 70767
 1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-02107

Request or PO Number: N/A

Client Sample ID: S171931625 (Batch 57717)

ARS Sample ID: ARS1-17-02107-001

Sample Collection Date: 07/12/17

Date Received: 07/14/17

Sample Matrix: Aqueous

Report Date: 08/14/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.136 | 0.113 | 0.155 | 0.058 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 08/14/17 8:21 | CTRAMEL | 92% |
| Ra-228 | 0.876 | 0.733 | 1.163 | 0.539 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 08/07/17 12:00 | CTRAMEL | 89% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-02107

Request or PO Number: N/A

Client Sample ID: S17193162A (Batch 57717)

ARS Sample ID: ARS1-17-02107-002

Sample Collection Date: 07/12/17

Date Received: 07/14/17

Sample Matrix: Aqueous

Report Date: 08/14/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.333 | 0.157 | 0.153 | 0.058 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 08/14/17 8:21 | CTRAMEL | 106% |
| Ra-228 | 0.792 | 0.704 | 1.131 | 0.527 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 08/07/17 12:00 | CTRAMEL | 105% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-02107

Client Sample ID: S17193162B (Batch 57717)

Sample Collection Date: 07/12/17

Sample Matrix: Aqueous

Percent Solids: N/A

Request or PO Number: N/A

ARS Sample ID: ARS1-17-02107-003

Date Received: 07/14/17

Report Date: 08/14/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.311 | 0.174 | 0.214 | 0.088 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 08/14/17 8:21 | CTRAMEL | 86% |
| Ra-228 | 1.657 | 0.952 | 1.405 | 0.653 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 08/07/17 12:00 | CTRAMEL | 73% |

Project Manager Review

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2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-02107

Client Sample ID: S17193162C (Batch 57717)

Sample Collection Date: 07/12/17

Sample Matrix: Aqueous

Percent Solids: N/A

Request or PO Number: N/A

ARS Sample ID: ARS1-17-02107-004

Date Received: 07/14/17

Report Date: 08/14/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.914 | 0.305 | 0.265 | 0.111 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 08/14/17 8:21 | CTRAMEL | 90% |
| Ra-228 | 1.225 | 0.856 | 1.323 | 0.616 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 08/07/17 12:00 | CTRAMEL | 81% |

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Project Manager Review

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ARS Sample Delivery Group: ARS1-17-02107

Request or PO Number: N/A

Client Sample ID: S17193162D (Batch 57717)

ARS Sample ID: ARS1-17-02107-005

Sample Collection Date: 07/12/17

Date Received: 07/14/17

Sample Matrix: Aqueous

Report Date: 08/14/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.180 | 0.149 | 0.218 | 0.090 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 08/14/17 8:21 | CTRAMEL | 94% |
| Ra-228 | 0.180 | 0.635 | 1.120 | 0.519 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 08/07/17 12:00 | CTRAMEL | 88% |

Project Manager Review

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LELAP Certificate# 01949



2609 North River Road, Port Allen, Louisiana 70767
 1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-02165
 Client Sample ID: S17193162E (BATCH 57717)
 Sample Collection Date: 07/12/17
 Sample Matrix: Aqueous
 Percent Solids: N/A

Request or PO Number: N/A
 ARS Sample ID: ARS1-17-02165-001
 Date Received: 07/20/17
 Report Date: 08/09/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.908 | 0.269 | 0.154 | 0.059 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 08/03/17 10:25 | CTRAMEL | 102% |
| Ra-228 | 1.268 | 0.926 | 1.457 | 0.688 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 07/27/17 12:11 | CTRAMEL | 95% |

Project Manager Review

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QC Results Report

Sample Delivery Group: ARS1-17-02165

Laboratory Control Sample Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | LCS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|----------------------|
| ARS1-B17-01493 | LCS | RA-226 | 25.885 | 4.175 | 0.109 | 27.630 | N/A | pCi/L | ARS-010/EPA 903 | 8/3/17 8:07 | SC | 94 | 75%-125% |
| ARS1-B17-01493 | LCS | RA-228 | 34.437 | 5.749 | 1.041 | 39.784 | N/A | pCi/L | ARS-010/EPA 904 | 8/3/17 8:07 | SC | 87 | 75%-125% |

Blank Evaluation


| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|
| ARS1-B17-01493 | MBL | RA-226 | 0.017 | 0.051 | 0.097 | NA | U | pCi/L | ARS-010/EPA 903 | 8/3/17 8:07 | SC |
| ARS1-B17-01493 | MBL | RA-228 | 0.118 | 0.335 | 0.586 | NA | U | pCi/L | ARS-010/EPA 904 | 8/3/17 8:07 | SC |

RER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | RER | RER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01493 | LCSD | RA-226 | 25.885 | 4.175 | 28.276 | 4.560 | N/A | pCi/L | ARS-010/EPA 903 | 8/3/17 8:07 | SC | 0.27 | < 1 |
| ARS1-B17-01493 | LCSD | RA-228 | 34.437 | 5.749 | 34.101 | 5.697 | N/A | pCi/L | ARS-010/EPA 904 | 8/3/17 8:07 | SC | 0.03 | < 1 |

DER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | DER | DER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01493 | LCSD | RA-226 | 25.885 | 4.175 | 28.276 | 4.560 | N/A | pCi/L | ARS-010/EPA 903 | 8/3/17 8:07 | SC | 0.39 | < 3 |
| ARS1-B17-01493 | LCSD | RA-228 | 34.437 | 5.749 | 34.101 | 5.697 | N/A | pCi/L | ARS-010/EPA 904 | 8/3/17 8:07 | SC | 0.04 | < 3 |


 Project Manager Review

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NELAP Certificate # E87558



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1 (800) 401-4277 FAX (225) 381-2996

QC Results Report

Sample Delivery Group: ARS1-17-02107

Laboratory Control Sample Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | LCS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|----------------------|
| ARS1-B17-01622 | LCS | RA-226 | 21.318 | 3.453 | 0.115 | 27.493 | N/A | pCi/L | ARS-010/EPA 903 | 8/14/17 10:20 | CT | 78 | 75%-125% |
| ARS1-B17-01622 | LCS | RA-228 | 34.952 | 5.821 | 1.029 | 39.784 | N/A | pCi/L | ARS-010/EPA 904 | 8/14/17 10:20 | CT | 88 | 75%-125% |

Blank Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|
| ARS1-B17-01622 | MBL | RA-226 | 0.092 | 0.072 | 0.101 | NA | U | pCi/L | ARS-010/EPA 903 | 8/14/17 10:20 | CT |
| ARS1-B17-01622 | MBL | RA-228 | -0.121 | 0.305 | 0.566 | NA | U | pCi/L | ARS-010/EPA 904 | 8/14/17 10:20 | CT |

RER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | RER | RER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01622 | LCSD | RA-226 | 21.318 | 3.453 | 27.250 | 4.397 | N/A | pCi/L | ARS-010/EPA 903 | 8/14/17 10:20 | CT | 0.76 | < 1 |
| ARS1-B17-01622 | LCSD | RA-228 | 34.952 | 5.821 | 38.530 | 6.389 | N/A | pCi/L | ARS-010/EPA 904 | 8/14/17 10:20 | CT | 0.29 | < 1 |

DER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | DER | DER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01622 | LCSD | RA-226 | 21.318 | 3.453 | 27.250 | 4.397 | N/A | pCi/L | ARS-010/EPA 903 | 8/14/17 10:20 | CT | 1.06 | < 3 |
| ARS1-B17-01622 | LCSD | RA-228 | 34.952 | 5.821 | 38.530 | 6.389 | N/A | pCi/L | ARS-010/EPA 904 | 8/14/17 10:20 | CT | 0.41 | < 3 |

Project Manager Review

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NELAP Certificate # E87558



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1 (800) 401-4277 • Fax (225) 381-2996

Notes (Case Narrative):

Comments:

- 1.0) All MDA/MDC values are calculated on a sample specific basis.
- 2.0) Soil and Sludge analysis are reported on a wet basis or an as received basis unless otherwise indicated.
- 3.0) Data in this report are within the limits of uncertainty specified in the reference method unless otherwise specified.
- 4.0) Modified analysis procedures are procedures that are modified to meet the certain specifications. An example may be the use of a water method to analyze a solid matrix due to the lack of an officially recognized procedure for the analysis of the solid matrix. Modified analyses are indicated by the subsequent addition of "m" to the procedure number (i.e. 900.0M).
- 5.0) Total activity is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring radioactive decay chains and other prominent radioactive nuclides. Total activity may be lower than the actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not representative of nuclides that emit solely alpha or beta particles.
- 6.0) Ra-228 is determined via secular equilibrium with its daughter, Actinium 228 (Gamma Spectroscopy only).
- 7.0) U-238 is determined via secular equilibrium with its daughter, Thorium 234 (Gamma Spectroscopy only).
- 8.0) All gamma spectroscopy was performed utilizing high purity germanium detectors (HPGe).
- 9.0) ARS makes every attempt to match sample density to calibrated density; however, in some cases, it is not practical or possible to do so and data results may be affected (Gamma Spectroscopy only).
- 10.0) Gamma spectroscopy results are calculated values based on the ORTEC® GammaVision ENV32 Analysis Engine.
- 11.0) ACLASS DOD and ISO 17025 certification applies only to the following analytes and methods: Gross Alpha and Gross Beta (EPA 900, SM7110B&C, SW846 9310); Radium 226 (EPA 903, EPA 903.1, SM 7500 Ra-B, SW846 9315); Radium 228 (EPA 904, SM 7500 Ra-B SW846 9320); Iodine-131(EPA 901.1); Uranium by ICPMS (EPA 200.8); Strontium 89/90 (EPA 905, Eichrom SRW01, HASL 300 Sr-03-RC); Tritium (EPA 906, EPA 906M); Gamma Emitters (EPA 901.1, SM7120B, HASL 300 Ga-01-R); Americium-241, Curium 242/244, Plutonium 239/240 and 241, Thorium 228/230/232, Uranium 234/233 and 238 (Eichrom ACW03 VBS); Lead 210 (HASL 300 Pb-01-RC, Eichrom OTW01); Polonium 210 (HASL 300 Po-01-RC, HASL 300 Po-02-RC); Technetium-99 (Eichrom TCW02, Eichrom TCS01M).

Method References:

- 1.0) EPA 600/4-80-032; Prescribed Procedures for the Measurements of Radioactivity in Drinking Water, August 1980.
- 2.0) Standard Methods for the Examination of Water and Wastewater (On-Line Edition)
- 3.0) EPA SW-846; Test Methods for Evaluating Solid Waste, (On-Line edition)
- 4.0) EPA 600/4/79-020; Methods for Chemical Analysis of Water and Waste, March 1983.
- 5.0) HASL 300; The Procedures Manual of the Environmental Measurements Laboratory, Volume I, 28th Edition February, 1997.

Definitions:

| | |
|----------|---|
| CRDL | Contract Required Detection Limit |
| CSU | Combined Standard Uncertainty |
| DLC | Decision Level Concentration (ANSI N42.23) or critical level |
| DO | Duplicate Original |
| DUP | Method Duplicate |
| LCS/LCSD | Laboratory Control Sample/Laboratory Control Sample Duplicate |
| MDA | Minimum Detectable Activity |
| MDC | (Minimum Detectable Concentration) minimum concentration of the analyte that ARS can detect utilizing the specific analysis |
| MBL | Method Blank |
| MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| N/A | Not Applicable |
| NP | Not Provided |
| NR | Not Referenced |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |

Data Qualifiers:

| | |
|----|--|
| B | The analyte is found in both the associated method blank and the sample. This flag indicates probable blank contamination. |
| D | Sample analysis accomplished through dilution. |
| J | The reported result is an estimated value above the limit of detection but outside of quantitation range (e.g., matrix interference was observed). |
| Q | One or more quality control criteria failed (e.g., LCS recovery, surrogate spike recovery, or CCV recovery). |
| U | Activity is below the MDC, MDA, MDL, or LOD |
| N | The analyte is a tentatively identified compound using mass spectrometry or any non-customer requested compounds that are tentatively identified. |
| * | LCS/LCSD or MS/MSD fails RPD criteria. |
| S | Spike |
| SC | Subcontracted out to another qualified laboratory |
| H | Holding time exceeded |

LELAP Cert# 01949

NELAP Cert# E87558

ARS-059-010

Revision: 9.1

Revision Date: 03-14-2017

B Environmental Laboratory, LLC
 1606 E Brazos Suite D, Victoria, Texas 77901, ph: (361) 572-8224

Chain Of Custody Recd

Batch # **57417**
 TEMP UN-C4.6 Page 1 of 1

Customer / Report Information Billing Information X Check box if Billing is the same as Report Information

Name: Coleto Creek Power Address: Attention: Rick Coleman PO #
 Address: P. O. Box 8; Fannin, TX 77960 Project: CCR Sampling
 Comments:

Phone: 361-788-5145 FAX:
 EMAIL: richard.coleman@dmnecv.com
 Requested Analysis: **LI**
 Completed By laboratory

Therm ID# **3** TEMP Corr: **4.4**

| Sample Information | Collected By: BL Sm HA | Collected | | Matrix | Container | TYPE | NUMBER | Size | Preservative | Metals* | Cl, F ⁻ , SO4 | pH | TDS | Ra226 & Ra228 | Alk: Tot, Carb, Bi Carb | Diss Li & Mo | Custody Seals Present | Intact | LAB Sample Number |
|--------------------|-------------------------------|-----------|------|--------|-----------|------|--------|------|--------------|---------|--------------------------|----|-----|---------------|-------------------------|--------------|-----------------------|--------|-------------------|
| | | Date | Time | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | |
|-------|--|---------|------|---|----|---|---|-------|---|--|---|---|---|---|---|---|--|--|------------|
| MW-6 | | 7-12-17 | 7:55 | G | WW | P | 6 | 250mL | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | | | S171931625 |
| MW-7 | | | | G | WW | P | 6 | 500mL | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | | | S17193162A |
| BV-1 | | | | G | WW | P | 6 | 500mL | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | | | S17193162B |
| BV-5 | | | | G | WW | P | 6 | 500mL | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | | | S17193162C |
| BV-10 | | | | G | WW | P | 6 | 500mL | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | | | S17193162D |
| BV-19 | | | | G | WW | P | 6 | 500mL | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | | | S17193162E |

Required Turnaround: Routine (6-10 Business days) Expedite / Rush: 1 Business Day 2 Business Days 3 Business days 5 Business days Other

Surcharge will apply to RUSH TAT Authorized By: _____

Container Type: P=Plastic, G=Glass, V=Voa, O=Other Carrier ID: _____

REMARKS:

| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
|--------------------|---------|-------|--------------------|---------|-------|
| <i>[Signature]</i> | 7-12-17 | 16:15 | <i>[Signature]</i> | 7-12-17 | 16:15 |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |

BatchNo: 57958

SAMPLE REPORT



T104704328-17-14

Business

Coleto Creek Power - R Coleman
PO Box 8
Fannin TX 77960
Att: Rick Coleman



Laboratory

B Environmental, LLC.
1606 E Brazos, Suite D
Victoria TX 77901
ph. 361-572-8224

Reference Information

Project: CCR Sampling
Printed: Friday,
September 08,
2017

Re: Coleto Creek Power - R Coleman

Dear: Rick Coleman

Attached are the results for sample(s) received on 7/18/2017

The analytical results relate only to the samples tested.
All supporting quality data meets the requirements of NELAC unless noted in the case narrative section of the report.

This report contains 56 pages (including the cover page)

If you have any questions concerning this report, please do not hesitate to call (361) 572-8224 or Fax us at (361) 572-4115

Respectfully Submitted,

Kevin Baros
Laboratory Director



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Victoria TX 77901

BatchNo: 57958

Page 2 of 56

Batch No:

Sample Receipt Checklist

Date Received:

Project Received By:

Login completed by:

Carrier Name

- YES NO Not Present
- YES NO Not Present
- YES NO Not Present
- YES NO
- YES NO
- YES NO
- YES NO
- YES NO
- YES NO
- YES NO
- YES NO >0 <6 °C On Ice
- YES NO No VOA Vials submitted
- YES NO Not Applicable

*TEMP pH Adjusted? Checked By

Any No and/or N/A (not applicable) response must be detailed in the comments section below.

Client contacted PersonContacted

Contacted by: Date Contacted:

Regarding

Comments

Corrective Action



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 Victoria TX 77901

BatchNo: 57958

Sample Report Information



| | | |
|------------------------------|-------------------------|------------------------|
| Sample ID: S171991640 | Client ID: Blank | Sampler: Client |
|------------------------------|-------------------------|------------------------|

Client: Coletto Creek Power - R Coleman
 Study: Water
 Project: CCR Sampling
 Location: Blank
 Notes:

Batch No: 57958
 Sampled: 7/18/2017 2:30 PM
 Type: Grab
 Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | < 1 | mg/L | EPA 300 | K Baros | 7/19/2017 13:27 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | < 20 | mg/L | SM 2320 B | | 7/21/2017 10:27 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/21/2017 10:27 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | < 20 | mg/L | SM 2320 B | | 7/21/2017 10:27 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | < 0.25 | mg/L | EPA 300 | K Baros | 7/19/2017 13:27 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 6.16 | SU | SM 4500-H+B | C Watts | 7/18/2017 17:20 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | < 25 | mg/L | SM2540C | C Watts | 7/20/2017 14:00 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/26/2017 10:28 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | < 1 | mg/L | EPA 300 | K Baros | 7/19/2017 13:27 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 8/18/2017 8:07 | | | | | | <input checked="" type="checkbox"/> ARS International |



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 Victoria TX 77901

BatchNo: 57958

Sample Report Information



| | | |
|------------------------------|------------------------|------------------------|
| Sample ID: S17199164A | Client ID: MW-4 | Sampler: Client |
|------------------------------|------------------------|------------------------|

Client: Coleta Creek Power - R Coleman
Study: Water
Project: CCR Sampling
Location: MW #4
Notes:

Batch No: 57958
Sampled: 7/18/2017 2:12 PM
Type: Grab
Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 101 | mg/L | EPA 300 | K Baros | 7/19/2017 14:05 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 246 | mg/L | SM 2320 B | | 7/21/2017 10:37 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/21/2017 10:37 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 246 | mg/L | SM 2320 B | | 7/21/2017 10:37 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.63 | mg/L | EPA 300 | K Baros | 7/19/2017 14:05 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 6.92 | SU | SM 4500-H+B | C Watts | 7/18/2017 17:20 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 717 | mg/L | SM2540C | C Watts | 7/20/2017 14:00 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/26/2017 11:28 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 157 | mg/L | EPA 300 | K Baros | 7/19/2017 14:05 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 8/18/2017 8:07 | | | | | | <input checked="" type="checkbox"/> ARS International |



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 Victoria TX 77901

BatchNo: 57958

Sample Report Information



| | | | |
|------------------------------|------------------------|-----------------|---------------|
| Sample ID: S17199164B | Client ID: MW-8 | Sampler: | Client |
|------------------------------|------------------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman
Study: Water

Batch No: 57958
Sampled: 7/18/2017 10:37 AM

Project: CCR Sampling

Location: MW #8

Type: Grab
Matrix: Water

Notes:

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 61 | mg/L | EPA 300 | K Baros | 7/19/2017 14:43 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 256 | mg/L | SM 2320 B | | 7/21/2017 10:47 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/21/2017 10:47 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 256 | mg/L | SM 2320 B | | 7/21/2017 10:47 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.46 | mg/L | EPA 300 | K Baros | 7/19/2017 14:43 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 6.97 | SU | SM 4500-H+B | C Watts | 7/18/2017 17:20 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 533 | mg/L | SM2540C | C Watts | 7/20/2017 14:00 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/26/2017 11:30 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 100 | mg/L | EPA 300 | K Baros | 7/19/2017 14:43 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 8/17/2017 8:31 | | | | | | <input checked="" type="checkbox"/> ARS International |



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BatchNo: 57958

Sample Report Information



| | | |
|------------------------------|------------------------|------------------------|
| Sample ID: S17199164C | Client ID: BV-1 | Sampler: Client |
|------------------------------|------------------------|------------------------|

Client: Coletto Creek Power - R Coleman
Study: Water

Batch No: 57958
Sampled: 7/18/2017 9:22 AM

Project: CCR Sampling

Location: BV-1

Type: Grab

Notes:

Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|-------------------------------------|-------|-------------------------------|
| - Chloride, IC | 133 | mg/L | EPA 300 | K Baros | 7/19/2017 15:21 | 1 | 1 | | <input type="checkbox"/> | | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 332 | mg/L | SM 2320 B | | 7/21/2017 11:00 | 10 | 10 | | <input checked="" type="checkbox"/> | | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/21/2017 11:00 | 10 | 10 | | <input checked="" type="checkbox"/> | | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 332 | mg/L | SM 2320 B | | 7/21/2017 11:00 | 10 | 10 | | <input checked="" type="checkbox"/> | | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.78 | mg/L | EPA 300 | K Baros | 7/19/2017 15:21 | 0.25 | 0.25 | | <input type="checkbox"/> | | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.08 | SU | SM 4500-H+B | C Watts | 7/18/2017 17:20 | | | | <input type="checkbox"/> | | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 923 | mg/L | SM2540C | C Watts | 7/20/2017 14:00 | 25 | 25 | | <input type="checkbox"/> | | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | c | # | | | 7/26/2017 13:44 | | | | <input checked="" type="checkbox"/> | | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 173 | mg/L | EPA 300 | K Baros | 7/19/2017 15:21 | 1 | 1 | | <input type="checkbox"/> | | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | c | # | | | 8/17/2017 8:31 | | | | <input checked="" type="checkbox"/> | | ARS International |



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Sample Report Information



| | | | |
|------------------------------|------------------------|-----------------|---------------|
| Sample ID: S17199164D | Client ID: BV-5 | Sampler: | Client |
|------------------------------|------------------------|-----------------|---------------|

Client: Coleta Creek Power - R Coleman
Study: Water
Project: CCR Sampling
Location: BV-5
Notes:

Batch No: 57958
Sampled: 7/18/2017 9:58 AM
Type: Grab
Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|-------------------------------------|-------|-------------------------------|
| - Chloride, IC | 117 | mg/L | EPA 300 | K Baros | 7/19/2017 16:37 | 1 | 1 | | <input type="checkbox"/> | | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 389 | mg/L | SM 2320 B | | 7/21/2017 11:14 | 10 | 10 | | <input checked="" type="checkbox"/> | | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/21/2017 11:14 | 10 | 10 | | <input checked="" type="checkbox"/> | | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 389 | mg/L | SM 2320 B | | 7/21/2017 11:14 | 10 | 10 | | <input checked="" type="checkbox"/> | | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.56 | mg/L | EPA 300 | K Baros | 7/19/2017 16:37 | 0.25 | 0.25 | | <input type="checkbox"/> | | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 6.92 | SU | SM 4500-H+B | C Watts | 7/18/2017 17:20 | | | | <input type="checkbox"/> | | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 817 | mg/L | SM2540C | C Watts | 7/20/2017 14:00 | 25 | 25 | | <input type="checkbox"/> | | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/26/2017 13:46 | | | | <input checked="" type="checkbox"/> | | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 142 | mg/L | EPA 300 | K Baros | 7/19/2017 16:37 | 1 | 1 | | <input type="checkbox"/> | | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 8/17/2017 8:31 | | | | <input checked="" type="checkbox"/> | | ARS International |



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Sample Report Information



| | | |
|------------------------------|-------------------------|------------------------|
| Sample ID: S17199164E | Client ID: BV-10 | Sampler: Client |
|------------------------------|-------------------------|------------------------|

Client: Coletto Creek Power - R Coleman
Study: Water
Project: CCR Sampling
Location: BV-10
Notes:

Batch No: 57958
Sampled: 7/18/2017 8:58 AM
Type: Grab
Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 83 | mg/L | EPA 300 | K Baros | 7/19/2017 17:15 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 287 | mg/L | SM 2320 B | | 7/21/2017 11:23 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/21/2017 11:23 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 287 | mg/L | SM 2320 B | | 7/21/2017 11:23 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.83 | mg/L | EPA 300 | K Baros | 7/19/2017 17:15 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.4 | SU | SM 4500-H+B | C Watts | 7/18/2017 17:20 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 563 | mg/L | SM2540C | C Watts | 7/20/2017 14:00 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/26/2017 13:48 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 78 | mg/L | EPA 300 | K Baros | 7/19/2017 17:15 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 8/17/2017 8:31 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |



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Sample Report Information



| | | |
|------------------------------|-------------------------|------------------------|
| Sample ID: S17199164F | Client ID: BV-15 | Sampler: Client |
|------------------------------|-------------------------|------------------------|

Client: Coleta Creek Power - R Coleman
 Study: Water
 Project: CCR Sampling
 Location: BV 15
 Notes:

Batch No: 57958
 Sampled: 7/18/2017 1:38 PM
 Type: Grab
 Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 44 | mg/L | EPA 300 | K Baros | 7/19/2017 17:54 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 205 | mg/L | SM 2320 B | | 7/21/2017 11:30 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/21/2017 11:30 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 205 | mg/L | SM 2320 B | | 7/21/2017 11:30 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.82 | mg/L | EPA 300 | K Baros | 7/19/2017 17:54 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.23 | SU | SM 4500-H+B | C Watts | 7/18/2017 17:20 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 440 | mg/L | SM2540C | C Watts | 7/20/2017 14:00 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | c | # | | | 7/26/2017 13:49 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 77 | mg/L | EPA 300 | K Baros | 7/19/2017 17:54 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | c | # | | | 8/17/2017 8:31 | | | | | <input checked="" type="checkbox"/> | ARS International |



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Sample Report Information



| | | | |
|------------------------------|-------------------------|-----------------|---------------|
| Sample ID: S17199164G | Client ID: BV-19 | Sampler: | Client |
|------------------------------|-------------------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman
 Study: Water
 Project: CCR Sampling
 Location: BV-19
 Notes:

Batch No: 57958
 Sampled: 7/18/2017 8:19 AM
 Type: Grab
 Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 139 | mg/L | EPA 300 | K Baros | 7/19/2017 18:32 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 323 | mg/L | SM 2320 B | | 7/21/2017 11:42 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/21/2017 11:42 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 323 | mg/L | SM 2320 B | | 7/21/2017 11:42 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.49 | mg/L | EPA 300 | K Baros | 7/19/2017 18:32 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 6.91 | SU | SM 4500-H+B | C Watts | 7/18/2017 17:20 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 700 | mg/L | SM2540C | C Watts | 7/20/2017 14:00 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/26/2017 13:40 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 60 | mg/L | EPA 300 | K Baros | 7/19/2017 18:32 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 8/17/2017 8:31 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |



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Sample Report Information



| | | | |
|------------------------------|-------------------------|-----------------|---------------|
| Sample ID: S17199164H | Client ID: BV-21 | Sampler: | Client |
|------------------------------|-------------------------|-----------------|---------------|

Client: Coleta Creek Power - R Coleman
 Study: Water
 Project: CCR Sampling
 Location: BV 21
 Notes:

Batch No: 57958
 Sampled: 7/18/2017 1:06 PM
 Type: Grab
 Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 39 | mg/L | EPA 300 | K Baros | 7/19/2017 21:42 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 235 | mg/L | SM 2320 B | | 7/21/2017 12:08 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/21/2017 12:08 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 235 | mg/L | SM 2320 B | | 7/21/2017 12:08 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.6 | mg/L | EPA 300 | K Baros | 7/19/2017 21:42 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.09 | SU | SM 4500-H+B | C Watts | 7/18/2017 17:20 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 380 | mg/L | SM2540C | C Watts | 7/20/2017 14:00 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/26/2017 13:51 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 44 | mg/L | EPA 300 | K Baros | 7/19/2017 21:42 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 8/17/2017 8:31 | | | | | | <input checked="" type="checkbox"/> ARS International |



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Sample Report Information



| | | |
|------------------------------|-------------------------|------------------------|
| Sample ID: S17199164I | Client ID: BV-22 | Sampler: Client |
|------------------------------|-------------------------|------------------------|

Client: Coletto Creek Power - R Coleman
 Study: Water
 Project: CCR Sampling
 Location: BV 22
 Notes:

Batch No: 57958
 Sampled: 7/18/2017 11:11 AM

Type: Grab
 Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 38 | mg/L | EPA 300 | K Baros | 7/19/2017 22:20 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 239 | mg/L | SM 2320 B | | 7/21/2017 12:16 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/21/2017 12:16 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 239 | mg/L | SM 2320 B | | 7/21/2017 12:16 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.53 | mg/L | EPA 300 | K Baros | 7/19/2017 22:20 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.13 | SU | SM 4500-H+B | C Watts | 7/18/2017 17:20 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 397 | mg/L | SM2540C | C Watts | 7/24/2017 17:30 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/26/2017 13:53 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 28 | mg/L | EPA 300 | K Baros | 7/19/2017 22:20 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 8/14/2017 8:21 | | | | | | <input checked="" type="checkbox"/> ARS International |



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Sample Report Information



| | | |
|------------------------------|-------------------------|------------------------|
| Sample ID: S17199164J | Client ID: Dup 1 | Sampler: Client |
|------------------------------|-------------------------|------------------------|

Client: Coletto Creek Power - R Coleman
Study: Water
Project: CCR Sampling
Location: Dup
Notes:

Batch No: 57958
Sampled: 7/18/2017 12:00 AM
Type: Grab
Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------------------------------------|-------------------------------|
| - Chloride, IC | 133 | mg/L | EPA 300 | K Baros | 7/19/2017 22:58 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 378 | mg/L | SM 2320 B | | 7/21/2017 12:29 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/21/2017 12:29 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 378 | mg/L | SM 2320 B | | 7/21/2017 12:29 | 10 | 10 | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.77 | mg/L | EPA 300 | K Baros | 7/19/2017 22:58 | 0.25 | 0.25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.16 | SU | SM 4500-H+B | C Watts | 7/18/2017 17:20 | | | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 877 | mg/L | SM2540C | C Watts | 7/24/2017 17:30 | 25 | 25 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/26/2017 13:55 | | | | | <input checked="" type="checkbox"/> | DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 173 | mg/L | EPA 300 | K Baros | 7/19/2017 22:58 | 1 | 1 | | | <input type="checkbox"/> | B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 8/14/2017 8:21 | | | | | <input checked="" type="checkbox"/> | ARS International |



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QA Summary Report

| Parameter | ID | Result | Ref Value | Amt Added | LOQ | Qualifer | Control | Flag | Comments |
|------------------------------------|------------|-----------|-----------|-----------|------|----------|---------|----------|-------------------------------|
| Method Blank | | | | | | | | | |
| - Chloride, IC | Q172111137 | <1mg/L | 0 | | | | 1 | | Blank Acceptable. |
| 7/19/2017 12:11 | | | | | | | | | |
| Fluoride, IC | Q172111137 | <0.25mg/L | 0 | | 0.25 | | 0.25 | | Blank Acceptable. |
| 7/19/2017 12:11 | | | | | | | | | |
| Solids, Total Dissolved | Q172051418 | <25mg/L | 0 | | 10 | | 25 | | Blank Acceptable. |
| 7/20/2017 14:00 | | | | | | | | | |
| Solids, Total Dissolved | Q172080956 | <25mg/L | 0 | | 10 | | 25 | | Blank Acceptable. |
| 7/24/2017 17:30 | | | | | | | | | |
| Sulfate, IC | Q172111137 | <1mg/L | 0 | | | | 1 | | Blank Acceptable. |
| 7/19/2017 12:11 | | | | | | | | | |
| Duplicate | | | | | | | | | |
| pH (Standard Units) | Q17199174A | 6.93SU | 6.91 | | | 2 | 0.3% | 20 | Duplicate RPD Acceptable. |
| 7/18/2017 17:20 | | | | | | | | | |
| Solids, Total Dissolved | Q172080957 | 3720mg/L | 3710 | | | 10 | 0.3% | 20 | Duplicate RPD Acceptable. |
| 7/24/2017 17:30 | | | | | | | | | |
| Solids, Total Dissolved | Q172051419 | 700mg/L | 700 | | | 10 | 0.0% | 20 | Duplicate RPD Acceptable. |
| 7/20/2017 14:00 | | | | | | | | | |
| Laboratory Control Standard | | | | | | | | | |
| - Chloride, IC | Q172111138 | 25.22mg/L | 25 | | | 1 | 100.9% | 80 - 120 | Standard Recovery Acceptable. |
| 7/19/2017 15:59 | | | | | | | 0.9% | 20 | Standard RPD Acceptable. |
| Fluoride, IC | Q172111138 | 1.97mg/L | 2 | | 0.25 | | 98.5% | 80 - 120 | Standard Recovery Acceptable. |
| 7/19/2017 15:59 | | | | | | | 1.5% | 20 | Standard RPD Acceptable. |
| pH (Standard Units) | Q171991743 | 7.02SU | 7 | | | 2 | 100.3% | 80 - 120 | Standard Recovery Acceptable. |
| 7/18/2017 17:20 | | | | | | | 0.3% | 20 | Standard RPD Acceptable. |
| Sulfate, IC | Q172111138 | 25.3mg/L | 25 | | | 1 | 101.2% | 80 - 120 | Standard Recovery Acceptable. |
| 7/19/2017 15:59 | | | | | | | 1.2% | 20 | Standard RPD Acceptable. |
| Matrix Spike | | | | | | | | | |
| - Chloride, IC | Q17211113A | 149.7mg/L | 150 | 25 | | 1 | 98.8% | 80 - 120 | Spike Recovery Acceptable. |
| 7/19/2017 19:10 | | | | | | | 0.2% | 20 | Spike RPD Acceptable. |
| Fluoride, IC | Q17211113A | 2.34mg/L | 2.45 | 2 | 0.25 | | 94.5% | 80 - 120 | Spike Recovery Acceptable. |
| 7/19/2017 19:10 | | | | | | | 4.6% | 20 | Spike RPD Acceptable. |
| Sulfate, IC | Q17211113A | 79.1mg/L | 79.2 | 25 | | 1 | 99.6% | 70 - 130 | Spike Recovery Acceptable. |
| 7/19/2017 19:10 | | | | | | | 0.1% | 20 | Spike RPD Acceptable. |
| Matrix Spike Dup | | | | | | | | | |
| - Chloride, IC | Q172111139 | 148.5mg/L | 150 | 25 | | 1 | 94.0% | 80 - 120 | Spike Recovery Acceptable. |
| 7/19/2017 19:48 | | | | | | | 1.0% | 20 | Spike RPD Acceptable. |
| Fluoride, IC | Q172111139 | 2.301mg/L | 2.45 | 2 | 0.25 | | 92.6% | 80 - 120 | Spike Recovery Acceptable. |
| 7/19/2017 19:48 | | | | | | | 6.3% | 20 | Spike RPD Acceptable. |
| Sulfate, IC | Q172111139 | 78.3mg/L | 79.2 | 25 | | 1 | 96.4% | 70 - 130 | Spike Recovery Acceptable. |
| 7/19/2017 19:48 | | | | | | | 1.1% | 20 | Spike RPD Acceptable. |



B Environmental, LLC.

1606 E Brazos, Suite D

Victoria TX 77901

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B Environmental, LLC.
1606 E Brazos, Suite D

BatchNo: 57958

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Victoria TX 77901

Flag and Qualifier Legend

| | | | |
|---|--|--|---|
|  | <i>Negative - Result Detected</i> | <i>MDL = Method Detection Limit</i> | <i>DF = Dilution Factor</i> |
|  | <i>Caution - Problem Detected</i> | <i>LOQ = Limit of Quantitation</i> | <i>j = Analyte detected between MDL and LOQ</i> |
|  | <i>Warning - Null Value</i> | <i>S = surrogate standard out of limit</i> | <i>H = sample out of hold time</i> |
|  | MS, MSD, RPD- Failure may occur due to matrix interference, data released per QA plan | | |

Friday, September 08, 2017

B Environmental - LDMS QA Report Summary

Note:

Thank you!



B Environmental, LLC.

1606 E Brazos, Suite D

Victoria TX 77901

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DHL Analytical, Inc.

Date: 31-Jul-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Lab Order: 1707179

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition and Standard Methods.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives except where noted in the following. For Total Metals Analysis, the recoveries of up to three analytes for the Matrix Spike and Matrix Spike Duplicate (1707179-08 MS/MSD) were above the method control limits. These are flagged accordingly in the QC Summary Report. These analytes were within method control limits in the associated LCS. No further corrective action was taken.

For Dissolved Metals Analysis, the RPD of Lithium for the Serial Dilution (1707202-13 SD) was marginally above the method control limit. This is flagged accordingly in the QC Summary Report. This analyte was within method control limits in the associated Post Digestion Spike. No further corrective action was taken.

For Total/Dissolved Metals Analysis, the results of Dissolved Lithium/Molybdenum for nine samples were slightly higher than the results of Total Lithium/Molybdenum. The results were within acceptable analytical variation limits. No further corrective action was taken.

DHL Analytical, Inc.

Date: 01-Aug-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR Sampling (57958)
Lab Order: 1707179

Client Sample ID: Blank
Lab ID: 1707179-01
Collection Date: 07/18/17 02:30 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|--------|----------------|-------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | ND | 5.00 | 10.0 | | µg/L | 1 | 07/25/17 03:28 PM |
| Dissolved Molybdenum | ND | 2.00 | 5.00 | | µg/L | 1 | 07/25/17 03:28 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: RO | | | |
| Antimony | ND | 0.800 | 2.50 | | µg/L | 1 | 07/26/17 10:28 AM |
| Arsenic | ND | 2.00 | 5.00 | | µg/L | 1 | 07/26/17 10:28 AM |
| Barium | ND | 3.00 | 10.0 | | µg/L | 1 | 07/26/17 10:28 AM |
| Beryllium | ND | 0.300 | 1.00 | | µg/L | 1 | 07/26/17 10:28 AM |
| Boron | ND | 10.0 | 30.0 | | µg/L | 1 | 07/26/17 10:28 AM |
| Cadmium | ND | 0.300 | 1.00 | | µg/L | 1 | 07/26/17 10:28 AM |
| Calcium | ND | 100 | 300 | | µg/L | 1 | 07/26/17 10:28 AM |
| Chromium | ND | 2.00 | 5.00 | | µg/L | 1 | 07/26/17 10:28 AM |
| Cobalt | ND | 3.00 | 5.00 | | µg/L | 1 | 07/26/17 10:28 AM |
| Lead | ND | 0.300 | 1.00 | | µg/L | 1 | 07/26/17 10:28 AM |
| Lithium | ND | 5.00 | 10.0 | | µg/L | 1 | 07/26/17 10:28 AM |
| Magnesium | ND | 100 | 300 | | µg/L | 1 | 07/26/17 10:28 AM |
| Molybdenum | ND | 2.00 | 5.00 | | µg/L | 1 | 07/26/17 10:28 AM |
| Potassium | ND | 100 | 300 | | µg/L | 1 | 07/26/17 10:28 AM |
| Selenium | ND | 2.00 | 5.00 | | µg/L | 1 | 07/26/17 10:28 AM |
| Sodium | 163 | 100 | 300 | J | µg/L | 1 | 07/26/17 10:28 AM |
| Thallium | ND | 0.500 | 1.50 | | µg/L | 1 | 07/26/17 10:28 AM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | ND | 0.0800 | 0.200 | | µg/L | 1 | 07/25/17 12:24 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | ND | 10.0 | 20.0 | | mg/L @ pH 4.32 | 1 | 07/21/17 10:27 AM |
| Alkalinity, Carbonate (As CaCO3) | ND | 10.0 | 20.0 | | mg/L @ pH 4.32 | 1 | 07/21/17 10:27 AM |
| Alkalinity, Hydroxide (As CaCO3) | ND | 10.0 | 20.0 | | mg/L @ pH 4.32 | 1 | 07/21/17 10:27 AM |
| Alkalinity, Total (As CaCO3) | ND | 20.0 | 20.0 | | mg/L @ pH 4.32 | 1 | 07/21/17 10:27 AM |

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds TCLP Maximum Concentration Level | B Analyte detected in the associated Method Blank |
| | C Sample Result or QC discussed in the Case Narrative | DF Dilution Factor |
| | E TPH pattern not Gas or Diesel Range Pattern | J Analyte detected between MDL and RL |
| | MDL Method Detection Limit | ND Not Detected at the Method Detection Limit |
| | RL Reporting Limit | S Spike Recovery outside control limits |
| | N Parameter not NELAC certified | |

DHL Analytical, Inc.

Date: 01-Aug-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR Sampling (57958)
Lab Order: 1707179

Client Sample ID: MW-4
Lab ID: 1707179-02
Collection Date: 07/18/17 02:12 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|--------|----------------|-------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 19.4 | 5.00 | 10.0 | | µg/L | 1 | 07/25/17 03:30 PM |
| Dissolved Molybdenum | ND | 2.00 | 5.00 | | µg/L | 1 | 07/25/17 03:30 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: RO | | | |
| Antimony | ND | 0.800 | 2.50 | | µg/L | 1 | 07/26/17 11:28 AM |
| Arsenic | 8.15 | 2.00 | 5.00 | | µg/L | 1 | 07/26/17 11:28 AM |
| Barium | 54.9 | 3.00 | 10.0 | | µg/L | 1 | 07/26/17 11:28 AM |
| Beryllium | ND | 0.300 | 1.00 | | µg/L | 1 | 07/26/17 11:28 AM |
| Boron | 292 | 10.0 | 30.0 | | µg/L | 1 | 07/26/17 11:28 AM |
| Cadmium | ND | 0.300 | 1.00 | | µg/L | 1 | 07/26/17 11:28 AM |
| Calcium | 108000 | 1000 | 3000 | | µg/L | 10 | 07/26/17 10:30 AM |
| Chromium | ND | 2.00 | 5.00 | | µg/L | 1 | 07/26/17 11:28 AM |
| Cobalt | 7.71 | 3.00 | 5.00 | | µg/L | 1 | 07/26/17 11:28 AM |
| Lead | 0.397 | 0.300 | 1.00 | J | µg/L | 1 | 07/26/17 11:28 AM |
| Lithium | 18.3 | 5.00 | 10.0 | | µg/L | 1 | 07/26/17 11:28 AM |
| Magnesium | 19400 | 100 | 300 | | µg/L | 1 | 07/26/17 11:28 AM |
| Molybdenum | ND | 2.00 | 5.00 | | µg/L | 1 | 07/26/17 11:28 AM |
| Potassium | 1500 | 100 | 300 | | µg/L | 1 | 07/26/17 11:28 AM |
| Selenium | ND | 2.00 | 5.00 | | µg/L | 1 | 07/26/17 11:28 AM |
| Sodium | 109000 | 1000 | 3000 | | µg/L | 10 | 07/26/17 10:30 AM |
| Thallium | ND | 0.500 | 1.50 | | µg/L | 1 | 07/26/17 11:28 AM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | ND | 0.0800 | 0.200 | | µg/L | 1 | 07/25/17 12:26 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 246 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/21/17 10:37 AM |
| Alkalinity, Carbonate (As CaCO3) | ND | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/21/17 10:37 AM |
| Alkalinity, Hydroxide (As CaCO3) | ND | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/21/17 10:37 AM |
| Alkalinity, Total (As CaCO3) | 246 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/21/17 10:37 AM |

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds TCLP Maximum Concentration Level | B Analyte detected in the associated Method Blank |
| | C Sample Result or QC discussed in the Case Narrative | DF Dilution Factor |
| | E TPH pattern not Gas or Diesel Range Pattern | J Analyte detected between MDL and RL |
| | MDL Method Detection Limit | ND Not Detected at the Method Detection Limit |
| | RL Reporting Limit | S Spike Recovery outside control limits |
| | N Parameter not NELAC certified | |

DHL Analytical, Inc.

Date: 01-Aug-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR Sampling (57958)
Lab Order: 1707179

Client Sample ID: MW-8
Lab ID: 1707179-03
Collection Date: 07/18/17 10:37 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|--------|----------------|-------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 11.7 | 5.00 | 10.0 | | µg/L | 1 | 07/25/17 03:32 PM |
| Dissolved Molybdenum | 17.3 | 2.00 | 5.00 | | µg/L | 1 | 07/25/17 03:32 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: RO | | | |
| Antimony | ND | 0.800 | 2.50 | | µg/L | 1 | 07/26/17 11:30 AM |
| Arsenic | 9.37 | 2.00 | 5.00 | | µg/L | 1 | 07/26/17 11:30 AM |
| Barium | 63.5 | 3.00 | 10.0 | | µg/L | 1 | 07/26/17 11:30 AM |
| Beryllium | ND | 0.300 | 1.00 | | µg/L | 1 | 07/26/17 11:30 AM |
| Boron | 1250 | 200 | 600 | | µg/L | 20 | 07/26/17 10:32 AM |
| Cadmium | ND | 0.300 | 1.00 | | µg/L | 1 | 07/26/17 11:30 AM |
| Calcium | 92900 | 2000 | 6000 | | µg/L | 20 | 07/26/17 10:32 AM |
| Chromium | ND | 2.00 | 5.00 | | µg/L | 1 | 07/26/17 11:30 AM |
| Cobalt | 35.2 | 3.00 | 5.00 | | µg/L | 1 | 07/26/17 11:30 AM |
| Lead | ND | 0.300 | 1.00 | | µg/L | 1 | 07/26/17 11:30 AM |
| Lithium | 11.8 | 5.00 | 10.0 | | µg/L | 1 | 07/26/17 11:30 AM |
| Magnesium | 14200 | 100 | 300 | | µg/L | 1 | 07/26/17 11:30 AM |
| Molybdenum | 18.5 | 2.00 | 5.00 | | µg/L | 1 | 07/26/17 11:30 AM |
| Potassium | 1070 | 100 | 300 | | µg/L | 1 | 07/26/17 11:30 AM |
| Selenium | ND | 2.00 | 5.00 | | µg/L | 1 | 07/26/17 11:30 AM |
| Sodium | 88800 | 2000 | 6000 | | µg/L | 20 | 07/26/17 10:32 AM |
| Thallium | ND | 0.500 | 1.50 | | µg/L | 1 | 07/26/17 11:30 AM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | ND | 0.0800 | 0.200 | | µg/L | 1 | 07/25/17 12:28 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 256 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/21/17 10:47 AM |
| Alkalinity, Carbonate (As CaCO3) | ND | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/21/17 10:47 AM |
| Alkalinity, Hydroxide (As CaCO3) | ND | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/21/17 10:47 AM |
| Alkalinity, Total (As CaCO3) | 256 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/21/17 10:47 AM |

Qualifiers:

| | | | |
|-----|---|----|---|
| * | Value exceeds TCLP Maximum Concentration Level | B | Analyte detected in the associated Method Blank |
| C | Sample Result or QC discussed in the Case Narrative | DF | Dilution Factor |
| E | TPH pattern not Gas or Diesel Range Pattern | J | Analyte detected between MDL and RL |
| MDL | Method Detection Limit | ND | Not Detected at the Method Detection Limit |
| RL | Reporting Limit | S | Spike Recovery outside control limits |
| N | Parameter not NELAC certified | | |

DHL Analytical, Inc.

Date: 01-Aug-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR Sampling (57958)
Lab Order: 1707179

Client Sample ID: BV-1
Lab ID: 1707179-04
Collection Date: 07/18/17 09:22 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|--------|----------------|-------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 16.3 | 5.00 | 10.0 | | µg/L | 1 | 07/25/17 03:34 PM |
| Dissolved Molybdenum | 5.28 | 2.00 | 5.00 | | µg/L | 1 | 07/25/17 03:34 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: RO | | | |
| Antimony | ND | 0.800 | 2.50 | | µg/L | 1 | 07/26/17 01:44 PM |
| Arsenic | 10.2 | 2.00 | 5.00 | | µg/L | 1 | 07/26/17 01:44 PM |
| Barium | 43.8 | 3.00 | 10.0 | | µg/L | 1 | 07/26/17 01:44 PM |
| Beryllium | ND | 0.300 | 1.00 | | µg/L | 1 | 07/26/17 01:44 PM |
| Boron | 1260 | 100 | 300 | | µg/L | 10 | 07/26/17 10:33 AM |
| Cadmium | ND | 0.300 | 1.00 | | µg/L | 1 | 07/26/17 01:44 PM |
| Calcium | 80200 | 1000 | 3000 | | µg/L | 10 | 07/26/17 10:33 AM |
| Chromium | 9.73 | 2.00 | 5.00 | | µg/L | 1 | 07/26/17 01:44 PM |
| Cobalt | 381 | 3.00 | 5.00 | | µg/L | 1 | 07/26/17 01:44 PM |
| Lead | 4.15 | 0.300 | 1.00 | | µg/L | 1 | 07/26/17 01:44 PM |
| Lithium | 15.5 | 5.00 | 10.0 | | µg/L | 1 | 07/26/17 01:44 PM |
| Magnesium | 11000 | 100 | 300 | | µg/L | 1 | 07/26/17 01:44 PM |
| Molybdenum | 4.83 | 2.00 | 5.00 | J | µg/L | 1 | 07/26/17 01:44 PM |
| Potassium | 629 | 100 | 300 | | µg/L | 1 | 07/26/17 01:44 PM |
| Selenium | ND | 2.00 | 5.00 | | µg/L | 1 | 07/26/17 01:44 PM |
| Sodium | 257000 | 2000 | 6000 | | µg/L | 20 | 08/01/17 10:47 AM |
| Thallium | ND | 0.500 | 1.50 | | µg/L | 1 | 07/26/17 01:44 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | ND | 0.0800 | 0.200 | | µg/L | 1 | 07/25/17 12:30 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 332 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/21/17 11:00 AM |
| Alkalinity, Carbonate (As CaCO3) | ND | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/21/17 11:00 AM |
| Alkalinity, Hydroxide (As CaCO3) | ND | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/21/17 11:00 AM |
| Alkalinity, Total (As CaCO3) | 332 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/21/17 11:00 AM |

Qualifiers:

| | | | |
|-----|---|----|---|
| * | Value exceeds TCLP Maximum Concentration Level | B | Analyte detected in the associated Method Blank |
| C | Sample Result or QC discussed in the Case Narrative | DF | Dilution Factor |
| E | TPH pattern not Gas or Diesel Range Pattern | J | Analyte detected between MDL and RL |
| MDL | Method Detection Limit | ND | Not Detected at the Method Detection Limit |
| RL | Reporting Limit | S | Spike Recovery outside control limits |
| N | Parameter not NELAC certified | | |

DHL Analytical, Inc.

Date: 01-Aug-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (57958)
Lab Order: 1707179

Client Sample ID: BV-5
Lab ID: 1707179-05
Collection Date: 07/18/17 09:58 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|--------|----------------|-------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 21.7 | 5.00 | 10.0 | | µg/L | 1 | 07/25/17 03:36 PM |
| Dissolved Molybdenum | 9.05 | 2.00 | 5.00 | | µg/L | 1 | 07/25/17 03:36 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: RO | | | |
| Antimony | ND | 0.800 | 2.50 | | µg/L | 1 | 07/26/17 01:46 PM |
| Arsenic | 9.51 | 2.00 | 5.00 | | µg/L | 1 | 07/26/17 01:46 PM |
| Barium | 57.8 | 3.00 | 10.0 | | µg/L | 1 | 07/26/17 01:46 PM |
| Beryllium | ND | 0.300 | 1.00 | | µg/L | 1 | 07/26/17 01:46 PM |
| Boron | 1170 | 100 | 300 | | µg/L | 10 | 07/26/17 10:35 AM |
| Cadmium | ND | 0.300 | 1.00 | | µg/L | 1 | 07/26/17 01:46 PM |
| Calcium | 143000 | 1000 | 3000 | | µg/L | 10 | 07/26/17 10:35 AM |
| Chromium | 7.39 | 2.00 | 5.00 | | µg/L | 1 | 07/26/17 01:46 PM |
| Cobalt | 45.3 | 3.00 | 5.00 | | µg/L | 1 | 07/26/17 01:46 PM |
| Lead | 2.88 | 0.300 | 1.00 | | µg/L | 1 | 07/26/17 01:46 PM |
| Lithium | 22.0 | 5.00 | 10.0 | | µg/L | 1 | 07/26/17 01:46 PM |
| Magnesium | 19000 | 100 | 300 | | µg/L | 1 | 07/26/17 01:46 PM |
| Molybdenum | 8.30 | 2.00 | 5.00 | | µg/L | 1 | 07/26/17 01:46 PM |
| Potassium | 577 | 100 | 300 | | µg/L | 1 | 07/26/17 01:46 PM |
| Selenium | ND | 2.00 | 5.00 | | µg/L | 1 | 07/26/17 01:46 PM |
| Sodium | 188000 | 1000 | 3000 | | µg/L | 10 | 07/26/17 10:35 AM |
| Thallium | ND | 0.500 | 1.50 | | µg/L | 1 | 07/26/17 01:46 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | ND | 0.0800 | 0.200 | | µg/L | 1 | 07/25/17 12:33 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 389 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/21/17 11:14 AM |
| Alkalinity, Carbonate (As CaCO3) | ND | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/21/17 11:14 AM |
| Alkalinity, Hydroxide (As CaCO3) | ND | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/21/17 11:14 AM |
| Alkalinity, Total (As CaCO3) | 389 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/21/17 11:14 AM |

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds TCLP Maximum Concentration Level | B Analyte detected in the associated Method Blank |
| | C Sample Result or QC discussed in the Case Narrative | DF Dilution Factor |
| | E TPH pattern not Gas or Diesel Range Pattern | J Analyte detected between MDL and RL |
| | MDL Method Detection Limit | ND Not Detected at the Method Detection Limit |
| | RL Reporting Limit | S Spike Recovery outside control limits |
| | N Parameter not NELAC certified | |

DHL Analytical, Inc.

Date: 01-Aug-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR Sampling (57958)
Lab Order: 1707179

Client Sample ID: BV-10
Lab ID: 1707179-06
Collection Date: 07/18/17 08:58 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|--------|----------------|-------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 11.7 | 5.00 | 10.0 | | µg/L | 1 | 07/25/17 03:38 PM |
| Dissolved Molybdenum | 8.56 | 2.00 | 5.00 | | µg/L | 1 | 07/25/17 03:38 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: RO | | | |
| Antimony | ND | 0.800 | 2.50 | | µg/L | 1 | 07/26/17 01:48 PM |
| Arsenic | 12.1 | 2.00 | 5.00 | | µg/L | 1 | 07/26/17 01:48 PM |
| Barium | 41.7 | 3.00 | 10.0 | | µg/L | 1 | 07/26/17 01:48 PM |
| Beryllium | ND | 0.300 | 1.00 | | µg/L | 1 | 07/26/17 01:48 PM |
| Boron | 1040 | 100 | 300 | | µg/L | 10 | 07/26/17 10:37 AM |
| Cadmium | ND | 0.300 | 1.00 | | µg/L | 1 | 07/26/17 01:48 PM |
| Calcium | 44700 | 1000 | 3000 | | µg/L | 10 | 07/26/17 10:37 AM |
| Chromium | 4.60 | 2.00 | 5.00 | J | µg/L | 1 | 07/26/17 01:48 PM |
| Cobalt | 210 | 3.00 | 5.00 | | µg/L | 1 | 07/26/17 01:48 PM |
| Lead | 5.30 | 0.300 | 1.00 | | µg/L | 1 | 07/26/17 01:48 PM |
| Lithium | 10.6 | 5.00 | 10.0 | | µg/L | 1 | 07/26/17 01:48 PM |
| Magnesium | 7050 | 100 | 300 | | µg/L | 1 | 07/26/17 01:48 PM |
| Molybdenum | 7.92 | 2.00 | 5.00 | | µg/L | 1 | 07/26/17 01:48 PM |
| Potassium | 688 | 100 | 300 | | µg/L | 1 | 07/26/17 01:48 PM |
| Selenium | ND | 2.00 | 5.00 | | µg/L | 1 | 07/26/17 01:48 PM |
| Sodium | 168000 | 1000 | 3000 | | µg/L | 10 | 07/26/17 10:37 AM |
| Thallium | ND | 0.500 | 1.50 | | µg/L | 1 | 07/26/17 01:48 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | ND | 0.0800 | 0.200 | | µg/L | 1 | 07/25/17 12:35 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 287 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/21/17 11:23 AM |
| Alkalinity, Carbonate (As CaCO3) | ND | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/21/17 11:23 AM |
| Alkalinity, Hydroxide (As CaCO3) | ND | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/21/17 11:23 AM |
| Alkalinity, Total (As CaCO3) | 287 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/21/17 11:23 AM |

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- N Parameter not NELAC certified
- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 01-Aug-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (57958)
Lab Order: 1707179

Client Sample ID: BV-15
Lab ID: 1707179-07
Collection Date: 07/18/17 01:38 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|--------|----------------|-------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 7.22 | 5.00 | 10.0 | J | µg/L | 1 | 07/25/17 03:40 PM |
| Dissolved Molybdenum | 18.8 | 2.00 | 5.00 | | µg/L | 1 | 07/25/17 03:40 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: RO | | | |
| Antimony | ND | 0.800 | 2.50 | | µg/L | 1 | 07/26/17 01:49 PM |
| Arsenic | 8.92 | 2.00 | 5.00 | | µg/L | 1 | 07/26/17 01:49 PM |
| Barium | 45.4 | 3.00 | 10.0 | | µg/L | 1 | 07/26/17 01:49 PM |
| Beryllium | ND | 0.300 | 1.00 | | µg/L | 1 | 07/26/17 01:49 PM |
| Boron | 1170 | 100 | 300 | | µg/L | 10 | 07/26/17 10:39 AM |
| Cadmium | ND | 0.300 | 1.00 | | µg/L | 1 | 07/26/17 01:49 PM |
| Calcium | 69900 | 1000 | 3000 | | µg/L | 10 | 07/26/17 10:39 AM |
| Chromium | 11.7 | 2.00 | 5.00 | | µg/L | 1 | 07/26/17 01:49 PM |
| Cobalt | 13.8 | 3.00 | 5.00 | | µg/L | 1 | 07/26/17 01:49 PM |
| Lead | 4.46 | 0.300 | 1.00 | | µg/L | 1 | 07/26/17 01:49 PM |
| Lithium | 6.81 | 5.00 | 10.0 | J | µg/L | 1 | 07/26/17 01:49 PM |
| Magnesium | 8660 | 100 | 300 | | µg/L | 1 | 07/26/17 01:49 PM |
| Molybdenum | 18.0 | 2.00 | 5.00 | | µg/L | 1 | 07/26/17 01:49 PM |
| Potassium | 1100 | 100 | 300 | | µg/L | 1 | 07/26/17 01:49 PM |
| Selenium | ND | 2.00 | 5.00 | | µg/L | 1 | 07/26/17 01:49 PM |
| Sodium | 78700 | 1000 | 3000 | | µg/L | 10 | 07/26/17 10:39 AM |
| Thallium | ND | 0.500 | 1.50 | | µg/L | 1 | 07/26/17 01:49 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | ND | 0.0800 | 0.200 | | µg/L | 1 | 07/25/17 12:37 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 205 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/21/17 11:30 AM |
| Alkalinity, Carbonate (As CaCO3) | ND | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/21/17 11:30 AM |
| Alkalinity, Hydroxide (As CaCO3) | ND | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/21/17 11:30 AM |
| Alkalinity, Total (As CaCO3) | 205 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/21/17 11:30 AM |

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds TCLP Maximum Concentration Level | B Analyte detected in the associated Method Blank |
| | C Sample Result or QC discussed in the Case Narrative | DF Dilution Factor |
| | E TPH pattern not Gas or Diesel Range Pattern | J Analyte detected between MDL and RL |
| | MDL Method Detection Limit | ND Not Detected at the Method Detection Limit |
| | RL Reporting Limit | S Spike Recovery outside control limits |
| | N Parameter not NELAC certified | |

DHL Analytical, Inc.

Date: 01-Aug-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR Sampling (57958)
Lab Order: 1707179

Client Sample ID: BV-19
Lab ID: 1707179-08
Collection Date: 07/18/17 08:19 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|--------|----------------|-------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 14.6 | 5.00 | 10.0 | | µg/L | 1 | 07/25/17 03:24 PM |
| Dissolved Molybdenum | 4.97 | 2.00 | 5.00 | J | µg/L | 1 | 07/25/17 03:24 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: RO | | | |
| Antimony | ND | 0.800 | 2.50 | | µg/L | 1 | 07/26/17 01:40 PM |
| Arsenic | 8.10 | 2.00 | 5.00 | | µg/L | 1 | 07/26/17 01:40 PM |
| Barium | 91.0 | 3.00 | 10.0 | | µg/L | 1 | 07/26/17 01:40 PM |
| Beryllium | ND | 0.300 | 1.00 | | µg/L | 1 | 07/26/17 01:40 PM |
| Boron | 836 | 100 | 300 | | µg/L | 10 | 07/26/17 10:24 AM |
| Cadmium | ND | 0.300 | 1.00 | | µg/L | 1 | 07/26/17 01:40 PM |
| Calcium | 125000 | 1000 | 3000 | | µg/L | 10 | 07/26/17 10:24 AM |
| Chromium | ND | 2.00 | 5.00 | | µg/L | 1 | 07/26/17 01:40 PM |
| Cobalt | ND | 3.00 | 5.00 | | µg/L | 1 | 07/26/17 01:40 PM |
| Lead | ND | 0.300 | 1.00 | | µg/L | 1 | 07/26/17 01:40 PM |
| Lithium | 15.4 | 5.00 | 10.0 | | µg/L | 1 | 07/26/17 01:40 PM |
| Magnesium | 25900 | 1000 | 3000 | | µg/L | 10 | 07/26/17 10:24 AM |
| Molybdenum | 4.76 | 2.00 | 5.00 | J | µg/L | 1 | 07/26/17 01:40 PM |
| Potassium | 682 | 100 | 300 | | µg/L | 1 | 07/26/17 01:40 PM |
| Selenium | ND | 2.00 | 5.00 | | µg/L | 1 | 07/26/17 01:40 PM |
| Sodium | 94600 | 1000 | 3000 | | µg/L | 10 | 07/26/17 10:24 AM |
| Thallium | ND | 0.500 | 1.50 | | µg/L | 1 | 07/26/17 01:40 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | ND | 0.0800 | 0.200 | | µg/L | 1 | 07/25/17 12:39 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 323 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/21/17 11:42 AM |
| Alkalinity, Carbonate (As CaCO3) | ND | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/21/17 11:42 AM |
| Alkalinity, Hydroxide (As CaCO3) | ND | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/21/17 11:42 AM |
| Alkalinity, Total (As CaCO3) | 323 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/21/17 11:42 AM |

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- N Parameter not NELAC certified
- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 01-Aug-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR Sampling (57958)
Lab Order: 1707179

Client Sample ID: BV-21
Lab ID: 1707179-09
Collection Date: 07/18/17 01:06 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|--------|----------------|-------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 5.50 | 5.00 | 10.0 | J | µg/L | 1 | 07/25/17 03:42 PM |
| Dissolved Molybdenum | 2.53 | 2.00 | 5.00 | J | µg/L | 1 | 07/25/17 03:42 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: RO | | | |
| Antimony | ND | 0.800 | 2.50 | | µg/L | 1 | 07/26/17 01:51 PM |
| Arsenic | 115 | 2.00 | 5.00 | | µg/L | 1 | 07/26/17 01:51 PM |
| Barium | 101 | 3.00 | 10.0 | | µg/L | 1 | 07/26/17 01:51 PM |
| Beryllium | ND | 0.300 | 1.00 | | µg/L | 1 | 07/26/17 01:51 PM |
| Boron | 618 | 100 | 300 | | µg/L | 10 | 07/26/17 10:40 AM |
| Cadmium | ND | 0.300 | 1.00 | | µg/L | 1 | 07/26/17 01:51 PM |
| Calcium | 84400 | 1000 | 3000 | | µg/L | 10 | 07/26/17 10:40 AM |
| Chromium | ND | 2.00 | 5.00 | | µg/L | 1 | 07/26/17 01:51 PM |
| Cobalt | 7.84 | 3.00 | 5.00 | | µg/L | 1 | 07/26/17 01:51 PM |
| Lead | 0.507 | 0.300 | 1.00 | J | µg/L | 1 | 07/26/17 01:51 PM |
| Lithium | ND | 5.00 | 10.0 | | µg/L | 1 | 07/26/17 01:51 PM |
| Magnesium | 8530 | 100 | 300 | | µg/L | 1 | 07/26/17 01:51 PM |
| Molybdenum | 2.39 | 2.00 | 5.00 | J | µg/L | 1 | 07/26/17 01:51 PM |
| Potassium | 809 | 100 | 300 | | µg/L | 1 | 07/26/17 01:51 PM |
| Selenium | ND | 2.00 | 5.00 | | µg/L | 1 | 07/26/17 01:51 PM |
| Sodium | 59300 | 1000 | 3000 | | µg/L | 10 | 07/26/17 10:40 AM |
| Thallium | ND | 0.500 | 1.50 | | µg/L | 1 | 07/26/17 01:51 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | ND | 0.0800 | 0.200 | | µg/L | 1 | 07/25/17 12:51 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 235 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/21/17 12:08 PM |
| Alkalinity, Carbonate (As CaCO3) | ND | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/21/17 12:08 PM |
| Alkalinity, Hydroxide (As CaCO3) | ND | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/21/17 12:08 PM |
| Alkalinity, Total (As CaCO3) | 235 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/21/17 12:08 PM |

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds TCLP Maximum Concentration Level | B Analyte detected in the associated Method Blank |
| | C Sample Result or QC discussed in the Case Narrative | DF Dilution Factor |
| | E TPH pattern not Gas or Diesel Range Pattern | J Analyte detected between MDL and RL |
| | MDL Method Detection Limit | ND Not Detected at the Method Detection Limit |
| | RL Reporting Limit | S Spike Recovery outside control limits |
| | N Parameter not NELAC certified | |

DHL Analytical, Inc.

Date: 01-Aug-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR Sampling (57958)
Lab Order: 1707179

Client Sample ID: BV-22
Lab ID: 1707179-10
Collection Date: 07/18/17 11:11 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|--------|----------------|-------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 7.72 | 5.00 | 10.0 | J | µg/L | 1 | 07/25/17 03:44 PM |
| Dissolved Molybdenum | 8.90 | 2.00 | 5.00 | | µg/L | 1 | 07/25/17 03:44 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: RO | | | |
| Antimony | ND | 0.800 | 2.50 | | µg/L | 1 | 07/26/17 01:53 PM |
| Arsenic | 6.18 | 2.00 | 5.00 | | µg/L | 1 | 07/26/17 01:53 PM |
| Barium | 55.3 | 3.00 | 10.0 | | µg/L | 1 | 07/26/17 01:53 PM |
| Beryllium | ND | 0.300 | 1.00 | | µg/L | 1 | 07/26/17 01:53 PM |
| Boron | 608 | 100 | 300 | | µg/L | 10 | 07/26/17 10:42 AM |
| Cadmium | ND | 0.300 | 1.00 | | µg/L | 1 | 07/26/17 01:53 PM |
| Calcium | 95800 | 1000 | 3000 | | µg/L | 10 | 07/26/17 10:42 AM |
| Chromium | ND | 2.00 | 5.00 | | µg/L | 1 | 07/26/17 01:53 PM |
| Cobalt | ND | 3.00 | 5.00 | | µg/L | 1 | 07/26/17 01:53 PM |
| Lead | 1.41 | 0.300 | 1.00 | | µg/L | 1 | 07/26/17 01:53 PM |
| Lithium | 7.68 | 5.00 | 10.0 | J | µg/L | 1 | 07/26/17 01:53 PM |
| Magnesium | 10500 | 100 | 300 | | µg/L | 1 | 07/26/17 01:53 PM |
| Molybdenum | 8.29 | 2.00 | 5.00 | | µg/L | 1 | 07/26/17 01:53 PM |
| Potassium | 1030 | 100 | 300 | | µg/L | 1 | 07/26/17 01:53 PM |
| Selenium | ND | 2.00 | 5.00 | | µg/L | 1 | 07/26/17 01:53 PM |
| Sodium | 60400 | 1000 | 3000 | | µg/L | 10 | 07/26/17 10:42 AM |
| Thallium | ND | 0.500 | 1.50 | | µg/L | 1 | 07/26/17 01:53 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | ND | 0.0800 | 0.200 | | µg/L | 1 | 07/25/17 12:53 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 239 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/21/17 12:16 PM |
| Alkalinity, Carbonate (As CaCO3) | ND | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/21/17 12:16 PM |
| Alkalinity, Hydroxide (As CaCO3) | ND | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/21/17 12:16 PM |
| Alkalinity, Total (As CaCO3) | 239 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/21/17 12:16 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 01-Aug-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (57958)
Lab Order: 1707179

Client Sample ID: Dup
Lab ID: 1707179-11
Collection Date: 07/18/17
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|--------|----------------|-------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 16.5 | 5.00 | 10.0 | | µg/L | 1 | 07/27/17 03:56 PM |
| Dissolved Molybdenum | 5.03 | 2.00 | 5.00 | | µg/L | 1 | 07/27/17 03:56 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: RO | | | |
| Antimony | ND | 0.800 | 2.50 | | µg/L | 1 | 07/26/17 01:55 PM |
| Arsenic | 10.1 | 2.00 | 5.00 | | µg/L | 1 | 07/26/17 01:55 PM |
| Barium | 42.8 | 3.00 | 10.0 | | µg/L | 1 | 07/26/17 01:55 PM |
| Beryllium | ND | 0.300 | 1.00 | | µg/L | 1 | 07/26/17 01:55 PM |
| Boron | 1210 | 100 | 300 | | µg/L | 10 | 07/26/17 11:01 AM |
| Cadmium | ND | 0.300 | 1.00 | | µg/L | 1 | 07/26/17 01:55 PM |
| Calcium | 75400 | 1000 | 3000 | | µg/L | 10 | 07/26/17 11:01 AM |
| Chromium | 8.95 | 2.00 | 5.00 | | µg/L | 1 | 07/26/17 01:55 PM |
| Cobalt | 383 | 3.00 | 5.00 | | µg/L | 1 | 07/26/17 01:55 PM |
| Lead | 3.85 | 0.300 | 1.00 | | µg/L | 1 | 07/26/17 01:55 PM |
| Lithium | 15.7 | 5.00 | 10.0 | | µg/L | 1 | 07/26/17 01:55 PM |
| Magnesium | 11000 | 100 | 300 | | µg/L | 1 | 07/26/17 01:55 PM |
| Molybdenum | 4.89 | 2.00 | 5.00 | J | µg/L | 1 | 07/26/17 01:55 PM |
| Potassium | 537 | 100 | 300 | | µg/L | 1 | 07/26/17 01:55 PM |
| Selenium | ND | 2.00 | 5.00 | | µg/L | 1 | 07/26/17 01:55 PM |
| Sodium | 247000 | 1000 | 3000 | | µg/L | 10 | 07/26/17 11:01 AM |
| Thallium | ND | 0.500 | 1.50 | | µg/L | 1 | 07/26/17 01:55 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | ND | 0.0800 | 0.200 | | µg/L | 1 | 07/25/17 01:00 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 378 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 07/21/17 12:29 PM |
| Alkalinity, Carbonate (As CaCO3) | ND | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 07/21/17 12:29 PM |
| Alkalinity, Hydroxide (As CaCO3) | ND | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 07/21/17 12:29 PM |
| Alkalinity, Total (As CaCO3) | 378 | 20.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 07/21/17 12:29 PM |

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds TCLP Maximum Concentration Level | B Analyte detected in the associated Method Blank |
| | C Sample Result or QC discussed in the Case Narrative | DF Dilution Factor |
| | E TPH pattern not Gas or Diesel Range Pattern | J Analyte detected between MDL and RL |
| | MDL Method Detection Limit | ND Not Detected at the Method Detection Limit |
| | RL Reporting Limit | S Spike Recovery outside control limits |
| | N Parameter not NELAC certified | |

DHL Analytical, Inc.

Date: 31-Jul-17

CLIENT: B-Environmental
Work Order: 1707179
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_170725A

The QC data in batch 81574 applies to the following samples: 1707179-01A, 1707179-02A, 1707179-03A, 1707179-04A, 1707179-05A, 1707179-06A, 1707179-07A, 1707179-08A, 1707179-09A, 1707179-10A, 1707179-11A

| | | | |
|---------------------------|----------------------------------|---|-----------------------------|
| Sample ID MB-81574 | Batch ID: 81574 | TestNo: SW7470A | Units: µg/L |
| SampType: MBLK | Run ID: CETAC2_HG_170725A | Analysis Date: 7/25/2017 12:17:14 PM | Prep Date: 7/24/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | ND | 0.200 | | | | | | | | |

| | | | |
|----------------------------|----------------------------------|---|-----------------------------|
| Sample ID LCS-81574 | Batch ID: 81574 | TestNo: SW7470A | Units: µg/L |
| SampType: LCS | Run ID: CETAC2_HG_170725A | Analysis Date: 7/25/2017 12:19:30 PM | Prep Date: 7/24/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 2.03 | 0.200 | 2.000 | 0 | 102 | 85 | 115 | | | |

| | | | |
|-----------------------------|----------------------------------|---|-----------------------------|
| Sample ID LCSD-81574 | Batch ID: 81574 | TestNo: SW7470A | Units: µg/L |
| SampType: LCSD | Run ID: CETAC2_HG_170725A | Analysis Date: 7/25/2017 12:21:46 PM | Prep Date: 7/24/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 2.03 | 0.200 | 2.000 | 0 | 102 | 85 | 115 | 0 | 15 | |

| | | | |
|---------------------------------|----------------------------------|---|-----------------------------|
| Sample ID 1707179-08A SD | Batch ID: 81574 | TestNo: SW7470A | Units: µg/L |
| SampType: SD | Run ID: CETAC2_HG_170725A | Analysis Date: 7/25/2017 12:42:09 PM | Prep Date: 7/24/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0 | 1.00 | 0 | 0 | | | | 0 | 10 | |

| | | | |
|----------------------------------|----------------------------------|---|-----------------------------|
| Sample ID 1707179-08A PDS | Batch ID: 81574 | TestNo: SW7470A | Units: µg/L |
| SampType: PDS | Run ID: CETAC2_HG_170725A | Analysis Date: 7/25/2017 12:44:25 PM | Prep Date: 7/24/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 2.39 | 0.200 | 2.500 | 0 | 95.6 | 85 | 115 | | | |

| | | | |
|---------------------------------|----------------------------------|---|-----------------------------|
| Sample ID 1707179-08A MS | Batch ID: 81574 | TestNo: SW7470A | Units: µg/L |
| SampType: MS | Run ID: CETAC2_HG_170725A | Analysis Date: 7/25/2017 12:46:41 PM | Prep Date: 7/24/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 2.01 | 0.200 | 2.000 | 0 | 101 | 80 | 120 | | | |

| | | | |
|----------------------------------|----------------------------------|---|-----------------------------|
| Sample ID 1707179-08A MSD | Batch ID: 81574 | TestNo: SW7470A | Units: µg/L |
| SampType: MSD | Run ID: CETAC2_HG_170725A | Analysis Date: 7/25/2017 12:48:57 PM | Prep Date: 7/24/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 2.04 | 0.200 | 2.000 | 0 | 102 | 80 | 120 | 1.48 | 15 | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1707179
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170725B

The QC data in batch 81597 applies to the following samples: 1707179-01B, 1707179-02B, 1707179-03B, 1707179-04B, 1707179-05B, 1707179-06B, 1707179-07B, 1707179-08B, 1707179-09B, 1707179-10B

Sample ID **MB-81597** Batch ID: **81597** TestNo: **SW6020A** Units: **µg/L**
 SampType: **MBLK** Run ID: **ICP-MS4_170725B** Analysis Date: **7/25/2017 3:16:00 PM** Prep Date: **7/25/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Lithium | ND | 10.0 | | | | | | | | |
| Molybdenum | ND | 5.00 | | | | | | | | |

Sample ID **LCS-81597** Batch ID: **81597** TestNo: **SW6020A** Units: **µg/L**
 SampType: **LCS** Run ID: **ICP-MS4_170725B** Analysis Date: **7/25/2017 3:18:00 PM** Prep Date: **7/25/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Lithium | 200 | 10.0 | 200.0 | 0 | 100 | 80 | 120 | | | |
| Molybdenum | 196 | 5.00 | 200.0 | 0 | 97.9 | 80 | 120 | | | |

Sample ID **LCSD-81597** Batch ID: **81597** TestNo: **SW6020A** Units: **µg/L**
 SampType: **LCSD** Run ID: **ICP-MS4_170725B** Analysis Date: **7/25/2017 3:20:00 PM** Prep Date: **7/25/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| Lithium | 204 | 10.0 | 200.0 | 0 | 102 | 80 | 120 | 1.74 | 15 | |
| Molybdenum | 195 | 5.00 | 200.0 | 0 | 97.3 | 80 | 120 | 0.562 | 15 | |

Sample ID **1707179-08B SD** Batch ID: **81597** TestNo: **SW6020A** Units: **µg/L**
 SampType: **SD** Run ID: **ICP-MS4_170725B** Analysis Date: **7/25/2017 3:26:00 PM** Prep Date: **7/25/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Lithium | 0 | 50.0 | 0 | 14.60 | | | | 0 | 10 | |
| Molybdenum | 0 | 25.0 | 0 | 4.968 | | | | 0 | 10 | |

Sample ID **1707179-08B PDS** Batch ID: **81597** TestNo: **SW6020A** Units: **µg/L**
 SampType: **PDS** Run ID: **ICP-MS4_170725B** Analysis Date: **7/25/2017 3:46:00 PM** Prep Date: **7/25/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Lithium | 219 | 10.0 | 200.0 | 14.60 | 102 | 80 | 120 | | | |
| Molybdenum | 206 | 5.00 | 200.0 | 4.968 | 101 | 80 | 120 | | | |

Sample ID **1707179-08B MS** Batch ID: **81597** TestNo: **SW6020A** Units: **µg/L**
 SampType: **MS** Run ID: **ICP-MS4_170725B** Analysis Date: **7/25/2017 3:48:00 PM** Prep Date: **7/25/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Dissolved Lithium | 219 | 10.0 | 200.0 | 14.60 | 102 | 80 | 120 | | | |
| Dissolved Molybdenum | 208 | 5.00 | 200.0 | 4.968 | 102 | 80 | 120 | | | |

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
 J Analyte detected between MDL and RL MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
 RL Reporting Limit S Spike Recovery outside control limits
 J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1707179
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170725B

| Sample ID | 1707179-08B MSD | Batch ID: | 81597 | TestNo: | SW6020A | Units: | µg/L | | | |
|----------------------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|------|----------|------|
| SampType: | MSD | Run ID: | ICP-MS4_170725B | Analysis Date: | 7/25/2017 3:50:00 PM | Prep Date: | 7/25/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Dissolved Lithium | 214 | 10.0 | 200.0 | 14.60 | 99.7 | 80 | 120 | 2.12 | 15 | |
| Dissolved Molybdenum | 206 | 5.00 | 200.0 | 4.968 | 100 | 80 | 120 | 1.16 | 15 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1707179
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170727B

The QC data in batch 81598 applies to the following samples: 1707179-11B

| | | | | | | | | | | |
|---------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID MB-81598 | Batch ID: 81598 | TestNo: SW6020A | Units: µg/L | | | | | | | |
| SampType: MBLK | Run ID: ICP-MS4_170727B | Analysis Date: 7/27/2017 3:04:00 PM | Prep Date: 7/25/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | ND | 10.0 | | | | | | | | |
| Molybdenum | ND | 5.00 | | | | | | | | |

| | | | | | | | | | | |
|----------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID LCS-81598 | Batch ID: 81598 | TestNo: SW6020A | Units: µg/L | | | | | | | |
| SampType: LCS | Run ID: ICP-MS4_170727B | Analysis Date: 7/27/2017 3:06:00 PM | Prep Date: 7/25/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 202 | 10.0 | 200.0 | 0 | 101 | 80 | 120 | | | |
| Molybdenum | 189 | 5.00 | 200.0 | 0 | 94.3 | 80 | 120 | | | |

| | | | | | | | | | | |
|-----------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|-------|----------|------|
| Sample ID LCSD-81598 | Batch ID: 81598 | TestNo: SW6020A | Units: µg/L | | | | | | | |
| SampType: LCSD | Run ID: ICP-MS4_170727B | Analysis Date: 7/27/2017 3:08:00 PM | Prep Date: 7/25/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 202 | 10.0 | 200.0 | 0 | 101 | 80 | 120 | 0.026 | 15 | |
| Molybdenum | 190 | 5.00 | 200.0 | 0 | 94.9 | 80 | 120 | 0.582 | 15 | |

| | | | | | | | | | | |
|---------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1707202-13G SD | Batch ID: 81598 | TestNo: SW6020A | Units: µg/L | | | | | | | |
| SampType: SD | Run ID: ICP-MS4_170727B | Analysis Date: 7/27/2017 3:50:00 PM | Prep Date: 7/25/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 194 | 50.0 | 0 | 174.1 | | | | 10.6 | 10 | R |
| Molybdenum | 0 | 25.0 | 0 | 3.332 | | | | 0 | 10 | |

| | | | | | | | | | | |
|----------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1707202-13G PDS | Batch ID: 81598 | TestNo: SW6020A | Units: µg/L | | | | | | | |
| SampType: PDS | Run ID: ICP-MS4_170727B | Analysis Date: 7/27/2017 4:17:00 PM | Prep Date: 7/25/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 343 | 10.0 | 200.0 | 174.1 | 84.7 | 80 | 120 | | | |
| Molybdenum | 199 | 5.00 | 200.0 | 3.332 | 97.7 | 80 | 120 | | | |

| | | | | | | | | | | |
|---------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID 1707202-13G MS | Batch ID: 81598 | TestNo: SW6020A | Units: µg/L | | | | | | | |
| SampType: MS | Run ID: ICP-MS4_170727B | Analysis Date: 7/27/2017 4:19:00 PM | Prep Date: 7/25/2017 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 351 | 10.0 | 200.0 | 174.1 | 88.5 | 80 | 120 | | | |
| Molybdenum | 197 | 5.00 | 200.0 | 3.332 | 97.0 | 80 | 120 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1707179
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170727B

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|
| Sample ID | 1707202-13G MSD | Batch ID: | 81598 | TestNo: | SW6020A | Units: | µg/L |
| SampType: | MSD | Run ID: | ICP-MS4_170727B | Analysis Date: | 7/27/2017 4:21:00 PM | Prep Date: | 7/25/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| Lithium | 355 | 10.0 | 200.0 | 174.1 | 90.6 | 80 | 120 | 1.21 | 15 | |
| Molybdenum | 198 | 5.00 | 200.0 | 3.332 | 97.3 | 80 | 120 | 0.345 | 15 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1707179
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170726A

The QC data in batch 81537 applies to the following samples: 1707179-01A, 1707179-02A, 1707179-03A, 1707179-04A, 1707179-05A, 1707179-06A, 1707179-07A, 1707179-08A, 1707179-09A, 1707179-10A, 1707179-11A

| | | | | | | | |
|-----------|-----------------|-----------|------------------------|----------------|------------------------------|------------|------------------|
| Sample ID | MB-81537 | Batch ID: | 81537 | TestNo: | SW6020A | Units: | µg/L |
| SampType: | MBLK | Run ID: | ICP-MS5_170726A | Analysis Date: | 7/26/2017 10:17:00 AM | Prep Date: | 7/21/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | ND | 2.50 | | | | | | | | |
| Arsenic | ND | 5.00 | | | | | | | | |
| Barium | ND | 10.0 | | | | | | | | |
| Beryllium | ND | 1.00 | | | | | | | | |
| Boron | ND | 30.0 | | | | | | | | |
| Cadmium | ND | 1.00 | | | | | | | | |
| Calcium | ND | 300 | | | | | | | | |
| Chromium | ND | 5.00 | | | | | | | | |
| Cobalt | ND | 5.00 | | | | | | | | |
| Lead | ND | 1.00 | | | | | | | | |
| Lithium | ND | 10.0 | | | | | | | | |
| Magnesium | ND | 300 | | | | | | | | |
| Molybdenum | ND | 5.00 | | | | | | | | |
| Potassium | ND | 300 | | | | | | | | |
| Selenium | ND | 5.00 | | | | | | | | |
| Sodium | ND | 300 | | | | | | | | |
| Thallium | ND | 1.50 | | | | | | | | |

| | | | | | | | |
|-----------|------------------|-----------|------------------------|----------------|------------------------------|------------|------------------|
| Sample ID | LCS-81537 | Batch ID: | 81537 | TestNo: | SW6020A | Units: | µg/L |
| SampType: | LCS | Run ID: | ICP-MS5_170726A | Analysis Date: | 7/26/2017 10:19:00 AM | Prep Date: | 7/21/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 193 | 2.50 | 200.0 | 0 | 96.5 | 80 | 120 | | | |
| Arsenic | 192 | 5.00 | 200.0 | 0 | 95.8 | 80 | 120 | | | |
| Barium | 190 | 10.0 | 200.0 | 0 | 94.9 | 80 | 120 | | | |
| Beryllium | 198 | 1.00 | 200.0 | 0 | 99.0 | 80 | 120 | | | |
| Boron | 197 | 30.0 | 200.0 | 0 | 98.7 | 80 | 120 | | | |
| Cadmium | 197 | 1.00 | 200.0 | 0 | 98.4 | 80 | 120 | | | |
| Calcium | 5350 | 300 | 5000 | 0 | 107 | 80 | 120 | | | |
| Chromium | 199 | 5.00 | 200.0 | 0 | 99.3 | 80 | 120 | | | |
| Cobalt | 211 | 5.00 | 200.0 | 0 | 106 | 80 | 120 | | | |
| Lead | 197 | 1.00 | 200.0 | 0 | 98.3 | 80 | 120 | | | |
| Lithium | 196 | 10.0 | 200.0 | 0 | 98.2 | 80 | 120 | | | |
| Magnesium | 5190 | 300 | 5000 | 0 | 104 | 80 | 120 | | | |
| Molybdenum | 206 | 5.00 | 200.0 | 0 | 103 | 80 | 120 | | | |
| Potassium | 5010 | 300 | 5000 | 0 | 100 | 80 | 120 | | | |
| Selenium | 198 | 5.00 | 200.0 | 0 | 99.1 | 80 | 120 | | | |
| Sodium | 5040 | 300 | 5000 | 0 | 101 | 80 | 120 | | | |
| Thallium | 205 | 1.50 | 200.0 | 0 | 103 | 80 | 120 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1707179
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170726A

| | | | |
|-----------------------------|--------------------------------|---|-----------------------------|
| Sample ID LCSD-81537 | Batch ID: 81537 | TestNo: SW6020A | Units: µg/L |
| SampType: LCSD | Run ID: ICP-MS5_170726A | Analysis Date: 7/26/2017 10:21:00 AM | Prep Date: 7/21/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | 191 | 2.50 | 200.0 | 0 | 95.7 | 80 | 120 | 0.870 | 15 | |
| Arsenic | 191 | 5.00 | 200.0 | 0 | 95.3 | 80 | 120 | 0.472 | 15 | |
| Barium | 187 | 10.0 | 200.0 | 0 | 93.4 | 80 | 120 | 1.57 | 15 | |
| Beryllium | 198 | 1.00 | 200.0 | 0 | 99.0 | 80 | 120 | 0.029 | 15 | |
| Boron | 200 | 30.0 | 200.0 | 0 | 100 | 80 | 120 | 1.30 | 15 | |
| Cadmium | 195 | 1.00 | 200.0 | 0 | 97.4 | 80 | 120 | 0.977 | 15 | |
| Calcium | 5330 | 300 | 5000 | 0 | 107 | 80 | 120 | 0.380 | 15 | |
| Chromium | 201 | 5.00 | 200.0 | 0 | 100 | 80 | 120 | 1.08 | 15 | |
| Cobalt | 209 | 5.00 | 200.0 | 0 | 105 | 80 | 120 | 1.13 | 15 | |
| Lead | 196 | 1.00 | 200.0 | 0 | 98.2 | 80 | 120 | 0.036 | 15 | |
| Lithium | 198 | 10.0 | 200.0 | 0 | 99.0 | 80 | 120 | 0.731 | 15 | |
| Magnesium | 5140 | 300 | 5000 | 0 | 103 | 80 | 120 | 0.969 | 15 | |
| Molybdenum | 203 | 5.00 | 200.0 | 0 | 102 | 80 | 120 | 1.18 | 15 | |
| Potassium | 5030 | 300 | 5000 | 0 | 101 | 80 | 120 | 0.425 | 15 | |
| Selenium | 196 | 5.00 | 200.0 | 0 | 97.8 | 80 | 120 | 1.32 | 15 | |
| Sodium | 5080 | 300 | 5000 | 0 | 102 | 80 | 120 | 0.892 | 15 | |
| Thallium | 202 | 1.50 | 200.0 | 0 | 101 | 80 | 120 | 1.36 | 15 | |

| | | | |
|---------------------------------|--------------------------------|---|-----------------------------|
| Sample ID 1707179-08A SD | Batch ID: 81537 | TestNo: SW6020A | Units: µg/L |
| SampType: SD | Run ID: ICP-MS5_170726A | Analysis Date: 7/26/2017 10:26:00 AM | Prep Date: 7/21/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|-----------|--------|-------|-----------|---------|------|----------|-----------|-------|----------|------|
| Boron | 880 | 1500 | 0 | 835.6 | | | | 5.13 | 10 | |
| Calcium | 126000 | 15000 | 0 | 125300 | | | | 0.924 | 10 | |
| Magnesium | 26300 | 15000 | 0 | 25910 | | | | 1.68 | 10 | |
| Sodium | 97800 | 15000 | 0 | 94640 | | | | 3.25 | 10 | |

| | | | |
|----------------------------------|--------------------------------|---|-----------------------------|
| Sample ID 1707179-08A PDS | Batch ID: 81537 | TestNo: SW6020A | Units: µg/L |
| SampType: PDS | Run ID: ICP-MS5_170726A | Analysis Date: 7/26/2017 10:44:00 AM | Prep Date: 7/21/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|-----------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Boron | 2760 | 300 | 2000 | 835.6 | 96.0 | 80 | 120 | | | |
| Calcium | 177000 | 3000 | 50000 | 125300 | 103 | 80 | 120 | | | |
| Magnesium | 76600 | 3000 | 50000 | 25910 | 101 | 80 | 120 | | | |
| Sodium | 144000 | 3000 | 50000 | 94640 | 99.5 | 80 | 120 | | | |

| | | | |
|---------------------------------|--------------------------------|---|-----------------------------|
| Sample ID 1707179-08A MS | Batch ID: 81537 | TestNo: SW6020A | Units: µg/L |
| SampType: MS | Run ID: ICP-MS5_170726A | Analysis Date: 7/26/2017 10:46:00 AM | Prep Date: 7/21/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 198 | 25.0 | 200.0 | 0 | 99.1 | 80 | 120 | | | |

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
 J Analyte detected between MDL and RL MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
 RL Reporting Limit S Spike Recovery outside control limits
 J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1707179
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170726A

| | | | | | | | |
|-----------|----------------|-----------|-----------------|----------------|-----------------------|------------|-----------|
| Sample ID | 1707179-08A MS | Batch ID: | 81537 | TestNo: | SW6020A | Units: | µg/L |
| SampType: | MS | Run ID: | ICP-MS5_170726A | Analysis Date: | 7/26/2017 10:46:00 AM | Prep Date: | 7/21/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Arsenic | 199 | 50.0 | 200.0 | 0 | 99.3 | 80 | 120 | | | |
| Barium | 278 | 100 | 200.0 | 92.31 | 93.0 | 80 | 120 | | | |
| Beryllium | 196 | 10.0 | 200.0 | 0 | 98.0 | 80 | 120 | | | |
| Boron | 1170 | 300 | 200.0 | 835.6 | 168 | 80 | 120 | | | S |
| Cadmium | 197 | 10.0 | 200.0 | 0 | 98.3 | 80 | 120 | | | |
| Calcium | 130000 | 3000 | 5000 | 125300 | 92.9 | 80 | 120 | | | |
| Chromium | 203 | 50.0 | 200.0 | 0 | 102 | 80 | 120 | | | |
| Cobalt | 207 | 50.0 | 200.0 | 0 | 103 | 80 | 120 | | | |
| Lead | 199 | 10.0 | 200.0 | 0 | 99.3 | 80 | 120 | | | |
| Lithium | 218 | 100 | 200.0 | 0 | 109 | 80 | 120 | | | |
| Magnesium | 31100 | 3000 | 5000 | 25910 | 103 | 80 | 120 | | | |
| Molybdenum | 206 | 50.0 | 200.0 | 0 | 103 | 80 | 120 | | | |
| Potassium | 5490 | 3000 | 5000 | 0 | 110 | 80 | 120 | | | |
| Selenium | 198 | 50.0 | 200.0 | 0 | 98.9 | 80 | 120 | | | |
| Sodium | 99900 | 3000 | 5000 | 94640 | 105 | 80 | 120 | | | |
| Thallium | 195 | 15.0 | 200.0 | 0 | 97.6 | 80 | 120 | | | |

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|-----------------------|------------|-----------|
| Sample ID | 1707179-08A MSD | Batch ID: | 81537 | TestNo: | SW6020A | Units: | µg/L |
| SampType: | MSD | Run ID: | ICP-MS5_170726A | Analysis Date: | 7/26/2017 10:47:00 AM | Prep Date: | 7/21/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | 195 | 25.0 | 200.0 | 0 | 97.7 | 80 | 120 | 1.35 | 15 | |
| Arsenic | 200 | 50.0 | 200.0 | 0 | 100 | 80 | 120 | 0.742 | 15 | |
| Barium | 279 | 100 | 200.0 | 92.31 | 93.3 | 80 | 120 | 0.226 | 15 | |
| Beryllium | 199 | 10.0 | 200.0 | 0 | 99.6 | 80 | 120 | 1.59 | 15 | |
| Boron | 1150 | 300 | 200.0 | 835.6 | 158 | 80 | 120 | 1.72 | 15 | S |
| Cadmium | 197 | 10.0 | 200.0 | 0 | 98.4 | 80 | 120 | 0.122 | 15 | |
| Calcium | 133000 | 3000 | 5000 | 125300 | 157 | 80 | 120 | 2.43 | 15 | S |
| Chromium | 207 | 50.0 | 200.0 | 0 | 103 | 80 | 120 | 1.50 | 15 | |
| Cobalt | 207 | 50.0 | 200.0 | 0 | 104 | 80 | 120 | 0.333 | 15 | |
| Lead | 199 | 10.0 | 200.0 | 0 | 99.6 | 80 | 120 | 0.251 | 15 | |
| Lithium | 225 | 100 | 200.0 | 0 | 112 | 80 | 120 | 2.72 | 15 | |
| Magnesium | 31800 | 3000 | 5000 | 25910 | 118 | 80 | 120 | 2.36 | 15 | |
| Molybdenum | 212 | 50.0 | 200.0 | 0 | 106 | 80 | 120 | 3.18 | 15 | |
| Potassium | 5600 | 3000 | 5000 | 0 | 112 | 80 | 120 | 1.94 | 15 | |
| Selenium | 195 | 50.0 | 200.0 | 0 | 97.5 | 80 | 120 | 1.44 | 15 | |
| Sodium | 102000 | 3000 | 5000 | 94640 | 142 | 80 | 120 | 1.86 | 15 | S |
| Thallium | 197 | 15.0 | 200.0 | 0 | 98.3 | 80 | 120 | 0.720 | 15 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1707179
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_170726A

| | | | |
|----------------------------------|--------------------------------|--|-----------------------------|
| Sample ID: 1707179-08A SD | Batch ID: 81537 | TestNo: SW6020A | Units: µg/L |
| SampType: SD | Run ID: ICP-MS5_170726A | Analysis Date: 7/26/2017 1:42:00 PM | Prep Date: 7/21/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | 0 | 12.5 | 0 | 0 | | | | 0 | 10 | |
| Arsenic | 0 | 25.0 | 0 | 8.103 | | | | 0 | 10 | |
| Barium | 92.7 | 50.0 | 0 | 91.01 | | | | 1.82 | 10 | |
| Beryllium | 0 | 5.00 | 0 | 0 | | | | 0 | 10 | |
| Cadmium | 0 | 5.00 | 0 | 0 | | | | 0 | 10 | |
| Chromium | 0 | 25.0 | 0 | 0 | | | | 0 | 10 | |
| Cobalt | 0 | 25.0 | 0 | 0 | | | | 0 | 10 | |
| Lead | 0 | 5.00 | 0 | 0 | | | | 0 | 10 | |
| Lithium | 0 | 50.0 | 0 | 15.37 | | | | 0 | 10 | |
| Molybdenum | 0 | 25.0 | 0 | 4.757 | | | | 0 | 10 | |
| Potassium | 685 | 1500 | 0 | 681.5 | | | | 0.451 | 10 | |
| Selenium | 0 | 25.0 | 0 | 0 | | | | 0 | 10 | |
| Thallium | 0 | 7.50 | 0 | 0 | | | | 0 | 10 | |

| | | | |
|-----------------------------------|--------------------------------|--|-----------------------------|
| Sample ID: 1707179-08A PDS | Batch ID: 81537 | TestNo: SW6020A | Units: µg/L |
| SampType: PDS | Run ID: ICP-MS5_170726A | Analysis Date: 7/26/2017 1:56:00 PM | Prep Date: 7/21/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 192 | 2.50 | 200.0 | 0 | 95.9 | 80 | 120 | | | |
| Arsenic | 197 | 5.00 | 200.0 | 8.103 | 94.3 | 80 | 120 | | | |
| Barium | 270 | 10.0 | 200.0 | 91.01 | 89.5 | 80 | 120 | | | |
| Beryllium | 205 | 1.00 | 200.0 | 0 | 103 | 80 | 120 | | | |
| Cadmium | 190 | 1.00 | 200.0 | 0 | 95.0 | 80 | 120 | | | |
| Chromium | 200 | 5.00 | 200.0 | 0 | 100 | 80 | 120 | | | |
| Cobalt | 203 | 5.00 | 200.0 | 0 | 101 | 80 | 120 | | | |
| Lead | 191 | 1.00 | 200.0 | 0 | 95.7 | 80 | 120 | | | |
| Lithium | 216 | 10.0 | 200.0 | 15.37 | 100 | 80 | 120 | | | |
| Molybdenum | 197 | 5.00 | 200.0 | 4.757 | 96.2 | 80 | 120 | | | |
| Potassium | 5570 | 300 | 5000 | 681.5 | 97.8 | 80 | 120 | | | |
| Selenium | 193 | 5.00 | 200.0 | 0 | 96.6 | 80 | 120 | | | |
| Thallium | 202 | 1.50 | 200.0 | 0 | 101 | 80 | 120 | | | |

| | |
|--|---|
| <p>Qualifiers:</p> <ul style="list-style-type: none"> B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | <ul style="list-style-type: none"> DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified |
|--|---|

CLIENT: B-Environmental
Work Order: 1707179
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_170721B

The QC data in batch 81534 applies to the following samples: 1707179-01C, 1707179-02C, 1707179-03C, 1707179-04C, 1707179-05C, 1707179-06C, 1707179-07C, 1707179-08C, 1707179-09C, 1707179-10C, 1707179-11C

Sample ID **MB-81534** Batch ID: **81534** TestNo: **M2320 B** Units: **mg/L @ pH 4.28**
 SampType: **MBLK** Run ID: **TITRATOR_170721B** Analysis Date: **7/21/2017 9:33:00 AM** Prep Date: **7/21/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | ND | 20.0 | | | | | | | | |
| Alkalinity, Carbonate (As CaCO3) | ND | 20.0 | | | | | | | | |
| Alkalinity, Hydroxide (As CaCO3) | ND | 20.0 | | | | | | | | |
| Alkalinity, Total (As CaCO3) | ND | 20.0 | | | | | | | | |

Sample ID **LCS-81534** Batch ID: **81534** TestNo: **M2320 B** Units: **mg/L @ pH 4.2**
 SampType: **LCS** Run ID: **TITRATOR_170721B** Analysis Date: **7/21/2017 9:37:00 AM** Prep Date: **7/21/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Total (As CaCO3) | 50.8 | 20.0 | 50.00 | 0 | 102 | 74 | 129 | | | |

Sample ID **1707179-01C-DUP** Batch ID: **81534** TestNo: **M2320 B** Units: **mg/L @ pH 4.09**
 SampType: **DUP** Run ID: **TITRATOR_170721B** Analysis Date: **7/21/2017 10:29:00 AM** Prep Date: **7/21/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | 0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | 0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | 0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | 0 | 20.0 | 0 | 0 | | | | 0 | 20 | |

Sample ID **1707179-08C-DUP** Batch ID: **81534** TestNo: **M2320 B** Units: **mg/L @ pH 4.52**
 SampType: **DUP** Run ID: **TITRATOR_170721B** Analysis Date: **7/21/2017 11:54:00 AM** Prep Date: **7/21/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | 324 | 20.0 | 0 | 322.8 | | | | 0.340 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | 0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | 0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | 324 | 20.0 | 0 | 322.8 | | | | 0.340 | 20 | |

Sample ID **1707200-05C-DUP** Batch ID: **81534** TestNo: **M2320 B** Units: **mg/L @ pH 4.53**
 SampType: **DUP** Run ID: **TITRATOR_170721B** Analysis Date: **7/21/2017 2:51:00 PM** Prep Date: **7/21/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | 229 | 20.0 | 0 | 223.3 | | | | 2.35 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | 0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | 0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | 229 | 20.0 | 0 | 223.3 | | | | 2.35 | 20 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL

DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

2609 North River Road, Port Allen, Louisiana 70767
(800) 401-4277 -- FAX (225) 381-2996



ARS International, LLC

Laboratory Analysis Report

ARS1-17-02166

Prepared for:

B-Environmental

**Kevin Baros
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Victoria, TX 77901**

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Project Manager Review

Management Review

Notes: ARS International, LLC assumes no liability for the use or the interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

Contact Person: Questions regarding this analytical report should be addressed to:

**Project Manager
ProjectManagers@amrad.com**

**Phone: 225.381.2991
Fax: 225.381.2996**



LELAP Cert# 01949



2609 North River Road, Port Allen, Louisiana 70767
 1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-02166
 Client Sample ID: S171991640 (Batch 57958)
 Sample Collection Date: 07/18/17
 Sample Matrix: Aqueous
 Percent Solids: N/A

Request or PO Number: N/A
 ARS Sample ID: ARS1-17-02166-001
 Date Received: 07/20/17
 Report Date: 08/18/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.063 | 0.110 | 0.193 | 0.077 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 08/18/17 8:07 | CTRAMEL | 107% |
| Ra-228 | -0.208 | 0.567 | 1.064 | 0.492 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 08/11/17 12:00 | CTRAMEL | 99% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-02166
 Client Sample ID: S17199164A (Batch 57958)
 Sample Collection Date: 07/18/17
 Sample Matrix: Aqueous
 Percent Solids: N/A

Request or PO Number: N/A
 ARS Sample ID: ARS1-17-02166-002
 Date Received: 07/20/17
 Report Date: 08/18/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.191 | 0.126 | 0.154 | 0.058 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 08/18/17 8:07 | CTRAMEL | 93% |
| Ra-228 | -0.243 | 0.665 | 1.245 | 0.577 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 08/11/17 12:00 | CTRAMEL | 84% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-02166
 Client Sample ID: S17199164B (Batch 57958)
 Sample Collection Date: 07/18/17
 Sample Matrix: Aqueous
 Percent Solids: N/A

Request or PO Number: N/A
 ARS Sample ID: ARS1-17-02166-003
 Date Received: 07/20/17
 Report Date: 08/18/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 1.014 | 0.306 | 0.204 | 0.082 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 08/17/17 8:31 | CTRAMEL | 95% |
| Ra-228 | 1.099 | 0.728 | 1.105 | 0.511 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 08/10/17 12:08 | CTRAMEL | 89% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-02166
 Client Sample ID: S17199164C (Batch 57958)
 Sample Collection Date: 07/18/17
 Sample Matrix: Aqueous
 Percent Solids: N/A

Request or PO Number: N/A
 ARS Sample ID: ARS1-17-02166-004
 Date Received: 07/20/17
 Report Date: 08/18/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.151 | 0.111 | 0.143 | 0.054 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 08/17/17 8:31 | CTRAMEL | 101% |
| Ra-228 | 1.286 | 0.751 | 1.108 | 0.513 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 08/10/17 12:06 | CTRAMEL | 97% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-02166
 Client Sample ID: 517199164D (Batch 57958)
 Sample Collection Date: 07/18/17
 Sample Matrix: Aqueous
 Percent Solids: N/A

Request or PO Number: N/A
 ARS Sample ID: ARS1-17-02166-005
 Date Received: 07/20/17
 Report Date: 08/18/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysts Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.252 | 0.139 | 0.152 | 0.058 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 08/17/17 8:31 | CTRAMEL | 102% |
| Ra-228 | 1.008 | 0.777 | 1.221 | 0.569 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 08/10/17 12:08 | CTRAMEL | 94% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-02166
 Client Sample ID: S17199164E (Batch 57958)
 Sample Collection Date: 07/18/17
 Sample Matrix: Aqueous
 Percent Solids: N/A

Request or PO Number: N/A
 ARS Sample ID: ARS1-17-02166-006
 Date Received: 07/20/17
 Report Date: 08/18/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.316 | 0.160 | 0.184 | 0.075 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 08/17/17 8:31 | CTRAMEL | 103% |
| Ra-228 | 0.402 | 0.735 | 1.259 | 0.585 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 08/10/17 12:08 | CTRAMEL | 86% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-02166
 Client Sample ID: S17199164F (Batch 57958)
 Sample Collection Date: 07/18/17
 Sample Matrix: Aqueous
 Percent Solids: N/A

Request or PO Number: N/A
 ARS Sample ID: ARS1-17-02166-007
 Date Received: 07/20/17
 Report Date: 08/18/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.883 | 0.302 | 0.270 | 0.114 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 08/17/17 8:31 | CTRAMEL | 88% |
| Ra-228 | 0.890 | 0.818 | 1.319 | 0.614 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 08/10/17 12:08 | CTRAMEL | 86% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-02166
 Client Sample ID: S17199164G (Batch 57958)
 Sample Collection Date: 07/18/17
 Sample Matrix: Aqueous
 Percent Solids: N/A

Request or PO Number: N/A
 ARS Sample ID: ARS1-17-02166-008
 Date Received: 07/20/17
 Report Date: 08/18/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.520 | 0.209 | 0.204 | 0.084 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 08/17/17 8:31 | CTRAMEL | 104% |
| Ra-228 | 0.915 | 0.718 | 1.127 | 0.522 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 08/10/17 12:08 | CTRAMEL | 93% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-02166
 Client Sample ID: S17199164H (Batch 57958)
 Sample Collection Date: 07/18/17
 Sample Matrix: Aqueous
 Percent Solids: N/A

Request or PO Number: N/A
 ARS Sample ID: ARS1-17-02166-009
 Date Received: 07/20/17
 Report Date: 08/18/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 2.817 | 0.587 | 0.161 | 0.063 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 08/17/17 8:31 | CTRAMEL | 112% |
| Ra-228 | 1.995 | 0.988 | 1.434 | 0.677 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 08/10/17 12:08 | CTRAMEL | 106% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-02164
 Client Sample ID: S171991641 (BATCH 57958)
 Sample Collection Date: 07/18/17
 Sample Matrix: Aqueous
 Percent Solids: N/A

Request or PO Number: N/A
 ARS Sample ID: ARS1-17-02164-001
 Date Received: 07/20/17
 Report Date: 08/14/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.188 | 0.130 | 0.166 | 0.064 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 08/14/17 8:21 | CTRAMEL | 108% |
| Ra-228 | 0.404 | 0.702 | 1.198 | 0.556 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 08/07/17 12:00 | CTRAMEL | 84% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-02164
 Client Sample ID: S17199164J (BATCH 57958)
 Sample Collection Date: 07/18/17
 Sample Matrix: Aqueous
 Percent Solids: N/A

Request or PO Number: N/A
 ARS Sample ID: ARS1-17-02164-002
 Date Received: 07/20/17
 Report Date: 08/14/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.330 | 0.168 | 0.184 | 0.073 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 08/14/17 8:21 | CTRAMEL | 95% |
| Ra-228 | 0.959 | 0.960 | 1.570 | 0.741 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 08/07/17 12:00 | CTRAMEL | 82% |

Project Manager Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

LELAP Certificate# 01949



2609 North River Road, Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

QC Results Report

Sample Delivery Group: ARS1-17-02166

Laboratory Control Sample Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | LCS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|----------------------|
| ARS1-B17-01655 | LCS | RA-226 | 25.854 | 4.170 | 0.115 | 27.622 | N/A | pCi/L | ARS-010/EPA 903 | 8/17/17 10:30 | CT | 94 | 75%-125% |
| ARS1-B17-01655 | LCS | RA-228 | 34.282 | 5.732 | 1.084 | 39.784 | N/A | pCi/L | ARS-010/EPA 904 | 8/10/17 14:08 | CT | 86 | 75%-125% |

Blank Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|
| ARS1-B17-01655 | MBL | RA-226 | 0.070 | 0.067 | 0.101 | NA | U | pCi/L | ARS-010/EPA 903 | 8/17/17 10:30 | CT |
| ARS1-B17-01655 | MBL | RA-228 | 0.022 | 0.389 | 0.697 | NA | U | pCi/L | ARS-010/EPA 904 | 8/10/17 14:08 | CT |

RER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | RER | RER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01655 | LCSD | RA-226 | 25.854 | 4.170 | 29.066 | 4.684 | N/A | pCi/L | ARS-010/EPA 903 | 8/17/17 10:30 | CT | 0.36 | < 1 |
| ARS1-B17-01655 | LCSD | RA-228 | 34.282 | 5.732 | 36.364 | 6.068 | N/A | pCi/L | ARS-010/EPA 904 | 8/10/17 14:08 | CT | 0.18 | < 1 |

DER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | DER | DER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01655 | LCSD | RA-226 | 25.854 | 4.170 | 29.066 | 4.684 | N/A | pCi/L | ARS-010/EPA 903 | 8/17/17 10:30 | CT | 0.51 | < 3 |
| ARS1-B17-01655 | LCSD | RA-228 | 34.282 | 5.732 | 36.364 | 6.068 | N/A | pCi/L | ARS-010/EPA 904 | 8/10/17 14:08 | CT | 0.25 | < 3 |

Matrix Spike

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | MS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|---------------------|
| ARS1-B17-01655 | MS | Ra-226 | 66.089 | 10.622 | 0.166 | 55.308 | N/A | pCi/L | ARS-010/EPA 903 | 8/17/17 10:30 | CT | 119 | 60%-140% |
| ARS1-B17-01655 | MS | Ra-228 | 41.238 | 6.899 | 1.085 | 51.669 | N/A | pCi/L | ARS-010/EPA 903 | 8/10/17 14:08 | CT | 80 | 60%-140% |
| ARS1-B17-01655 | MSD | Ra-226 | 55.393 | 8.916 | 0.171 | 55.254 | N/A | pCi/L | ARS-010/EPA 904 | 8/17/17 10:30 | CT | 100 | 60%-140% |
| ARS1-B17-01655 | MSD | Ra-228 | 46.612 | 7.747 | 1.118 | 51.416 | N/A | pCi/L | ARS-010/EPA 904 | 8/10/17 14:08 | CT | 91 | 60%-140% |

Project Manager Review

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LELAP Certificate# 01949

NELAP Certificate # E87558



QC Results Report

2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

Sample Delivery Group: ARS1-17-02166

Laboratory Control Sample Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | LCS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|----------------------|
| ARS1-B17-01668 | LCS | RA-226 | 22.921 | 3.706 | 0.115 | 26.901 | N/A | pCi/L | ARS-010/EPA 903 | 08/11/17 10:22 | EC | 85 | 75%-125% |
| ARS1-B17-01668 | LCS | RA-228 | 38.943 | 6.487 | 1.152 | 39.784 | N/A | pCi/L | ARS-010/EPA 904 | 8/11/17 10:22 | EC | 98 | 75%-125% |

Blank Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|
| ARS1-B17-01668 | MBL | RA-226 | 0.077 | 0.068 | 0.101 | NA | U | pCi/L | ARS-010/EPA 903 | 8/11/17 10:22 | EC |
| ARS1-B17-01668 | MBL | RA-228 | 0.185 | 0.389 | 0.670 | NA | U | pCi/L | ARS-010/EPA 904 | 8/11/17 10:22 | EC |

RER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | RER | RER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01668 | LCSD | RA-226 | 22.921 | 3.706 | 24.211 | 3.916 | N/A | pCi/L | ARS-010/EPA 903 | 8/11/17 10:22 | EC | 0.17 | < 1 |
| ARS1-B17-01668 | LCSD | RA-228 | 38.943 | 6.487 | 39.168 | 6.506 | N/A | pCi/L | ARS-010/EPA 904 | 8/11/17 10:22 | EC | 0.02 | < 1 |

DER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | DER | DER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01668 | LCSD | RA-226 | 22.921 | 3.706 | 24.211 | 3.916 | N/A | pCi/L | ARS-010/EPA 903 | 8/11/17 10:22 | EC | 0.24 | < 3 |
| ARS1-B17-01668 | LCSD | RA-228 | 38.943 | 6.487 | 39.168 | 6.506 | N/A | pCi/L | ARS-010/EPA 904 | 8/11/17 10:22 | EC | 0.02 | < 3 |

Matrix Spike

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | MS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|---------------------|
| ARS1-B17-01668 | MS | Ra-226 | 53.446 | 8.608 | 0.170 | 55.738 | N/A | pCi/L | ARS-010/EPA 903 | 8/18/17 10:06 | EC | 96 | 60%-140% |
| ARS1-B17-01668 | MS | Ra-228 | 40.649 | 6.788 | 1.066 | 51.500 | N/A | pCi/L | ARS-010/EPA 904 | 8/11/17 14:00 | EC | 79 | 60%-140% |
| ARS1-B17-01668 | MSD | Ra-226 | 57.014 | 9.175 | 0.162 | 55.900 | N/A | pCi/L | ARS-010/EPA 903 | 8/18/17 10:06 | EC | 102 | 60%-140% |
| ARS1-B17-01668 | MSD | Ra-228 | 41.834 | 7.055 | 1.580 | 51.569 | N/A | pCi/L | ARS-010/EPA 904 | 8/11/17 14:00 | EC | 81 | 60%-140% |

Project Manager Review

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LELAP Certificate# 01949

NELAP Certificate # EB7558



2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

QC Results Report

Sample Delivery Group: ARS1-17-02164

Laboratory Control Sample Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | LCS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|----------------------|
| ARS1-B17-01622 | LCS | RA-226 | 21.318 | 3.453 | 0.115 | 27.493 | N/A | pCi/L | ARS-010/EPA 903 | 8/14/17 10:20 | CT | 78 | 75%-125% |
| ARS1-B17-01622 | LCS | RA-228 | 34.952 | 5.821 | 1.029 | 39.784 | N/A | pCi/L | ARS-010/EPA 904 | 8/14/17 10:20 | CT | 88 | 75%-125% |

Blank Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|
| ARS1-B17-01622 | MBL | RA-226 | 0.092 | 0.072 | 0.101 | NA | U | pCi/L | ARS-010/EPA 903 | 8/14/17 10:20 | CT |
| ARS1-B17-01622 | MBL | RA-228 | -0.121 | 0.305 | 0.566 | NA | U | pCi/L | ARS-010/EPA 904 | 8/14/17 10:20 | CT |

RER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | RER | RER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01622 | LCSD | RA-226 | 21.318 | 3.453 | 27.250 | 4.397 | N/A | pCi/L | ARS-010/EPA 903 | 8/14/17 10:20 | CT | 0.76 | < 1 |
| ARS1-B17-01622 | LCSD | RA-228 | 34.952 | 5.821 | 38.530 | 6.389 | N/A | pCi/L | ARS-010/EPA 904 | 8/14/17 10:20 | CT | 0.29 | < 1 |

DER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | DER | DER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01622 | LCSD | RA-226 | 21.318 | 3.453 | 27.250 | 4.397 | N/A | pCi/L | ARS-010/EPA 903 | 8/14/17 10:20 | CT | 1.06 | < 3 |
| ARS1-B17-01622 | LCSD | RA-228 | 34.952 | 5.821 | 38.530 | 6.389 | N/A | pCi/L | ARS-010/EPA 904 | 8/14/17 10:20 | CT | 0.41 | < 3 |

Project Manager Review

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LELAP Certificate# 01949

NELAP Certificate # E87558

Technical Note Report

ARS International
Baton Rouge Laboratory

ABATCH ARS1-B17-01655

Analysis Code GPC-A-057

Procedure No ARS-010

Matrix AQ

Dept

Chemical

Technical Note

User ID

Date 08/18/2017 1:37 PM

REPORTING *of 6/16/17* Recover Recovery is slightly high for ARS1-17-02166-009 due to high amounts of dissolved solids in sample.

GCULBERSON



1



2609 North River Road • Port Allen, Louisiana 70767

1 (800) 401-4277 • Fax (225) 381-2996

Notes (Case Narrative):

Comments:

- 1.0) All MDA/MDC values are calculated on a sample specific basis.
- 2.0) Soil and Sludge analysis are reported on a wet basis or an as received basis unless otherwise indicated.
- 3.0) Data in this report are within the limits of uncertainty specified in the reference method unless otherwise specified.
- 4.0) Modified analysis procedures are procedures that are modified to meet the certain specifications. An example may be the use of a water method to analyze a solid matrix due to the lack of an officially recognized procedure for the analysis of the solid matrix. Modified analyses are indicated by the subsequent addition of "m" to the procedure number (i.e. 900.0M).
- 5.0) Total activity is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring radioactive decay chains and other prominent radioactive nuclides. Total activity may be lower than the actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not representative of nuclides that emit solely alpha or beta particles.
- 6.0) Ra-228 is determined via secular equilibrium with its daughter, Actinium 228 (Gamma Spectroscopy only).
- 7.0) U-238 is determined via secular equilibrium with its daughter, Thorium 234 (Gamma Spectroscopy only).
- 8.0) All gamma spectroscopy was performed utilizing high purity germanium detectors (HPGe).
- 9.0) ARS makes every attempt to match sample density to calibrated density; however, in some cases, it is not practical or possible to do so and data results may be affected (Gamma Spectroscopy only).
- 10.0) Gamma spectroscopy results are calculated values based on the ORTEC® GammaVision ENV32 Analysis Engine.
- 11.0) ACLASS DOD and ISO 17025 certification applies only to the following analytes and methods: Gross Alpha and Gross Beta (EPA 900, SM7110B&C, SW846 9310); Radium 226 (EPA 903, EPA 903.1, SM 7500 Ra-B, SW846 9315); Radium 228 (EPA 904, SM 7500 Ra-B SW846 9320); Iodine-131(EPA 901.1); Uranium by ICPMS (EPA 200.8); Strontium 89/90 (EPA 905, Eichrom SRW01, HASL 300 Sr-03-RC); Tritium (EPA 906, EPA 906M); Gamma Emitters (EPA 901.1, SM7120B, HASL 300 Ga-01-R); Americium-241, Curium 242/244, Plutonium 239/240 and 241, Thorium 228/230/232, Uranium 234/233 and 238 (Eichrom ACW03 VBS); Lead 210 (HASL 300 Pb-01-RC, Eichrom OTW01); Polonium 210 (HASL 300 Po-01-RC, HASL 300 Po-02-RC); Technetium-99 (Eichrom TCW02, Eichrom TCS01M).

Method References:

- 1.0) EPA 600/4-80-032; Prescribed Procedures for the Measurements of Radioactivity in Drinking Water, August 1980.
- 2.0) Standard Methods for the Examination of Water and Wastewater (On-Line Edition)
- 3.0) EPA SW-846; Test Methods for Evaluating Solid Waste, (On-Line edition)
- 4.0) EPA 600/4/78-020; Methods for Chemical Analysis of Water and Waste, March 1983.
- 5.0) HASL 300; The Procedures Manual of the Environmental Measurements Laboratory, Volume I, 28th Edition February, 1997.

Definitions:

| | |
|----------|---|
| CRDL | Contract Required Detection Limit |
| CSU | Combined Standard Uncertainty |
| DLC | Decision Level Concentration (ANSI N42.23) or critical level |
| DO | Duplicate Original |
| DUP | Method Duplicate |
| LCS/LCSD | Laboratory Control Sample/Laboratory Control Sample Duplicate |
| MDA | Minimum Detectable Activity |
| MDC | (Minimum Detectable Concentration) minimum concentration of the analyte that ARS can detect utilizing the specific analysis |
| MBL | Method Blank |
| MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| N/A | Not Applicable |
| NP | Not Provided |
| NR | Not Referenced |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |

Data Qualifiers:

| | |
|----|--|
| B | The analyte is found in both the associated method blank and the sample. This flag indicates probable blank contamination. |
| D | Sample analysis accomplished through dilution. |
| J | The reported result is an estimated value above the limit of detection but outside of quantitation range (e.g., matrix interference was observed). |
| Q | One or more quality control criteria failed (e.g., LCS recovery, surrogate spike recovery, or CCV recovery). |
| U | Activity is below the MDC, MDA, MDL, or LOD |
| N | The analyte is a tentatively identified compound using mass spectrometry or any non-customer requested compounds that are tentatively identified. |
| * | LCS/LCSD or MS/MSD fails RPD criteria. |
| S | Spike |
| SC | Subcontracted out to another qualified laboratory |
| H | Holding time exceeded |

LELAP Cert# 01949

NELAP Cert# E87558

ARS-059-010
Revision: 9.1
Revision Date: 03-14-2017

B Environmental Laboratory, LLC
 1606 Brazos Suite D Victoria, Texas 77901 ph. (361) 572-8224

Chain Of Custody Rec

Batch #

57950

TEMP UN-C: 46

Page 1 of 2

Customer / Report Information

Billing Information

Check box if Billing is the same as Report Information

Therm ID# 3

TEMP Corr: 4.4

Name: Coletto Creek Power

Address:

PO #

Phone: 361-788-5145

FAX:

Attention: Rick Coleman

Project: CCR Sampling

Requested Analysis

EMAIL: richard.coleman@duneau.com

Completed by laboratory

Address: P. O. Box 8; Fannin, TX 77960

Comments:

Sample Information

Collected By:

Client / Field Sample ID

Collected Date Time

Matrix

Container TYPE NUMBER size

Preservative

Metals*

Cl, F, SO4

pH

TDS

Ra226 & Ra228

Alk: Tot, Carb, BiCarb

Diss Li & Mo

Custody Seals Present
 Yes No
 Intact
 Yes No
 LAB Sample Number

| Client / Field Sample ID | Collected Date | Collected Time | Matrix | Container TYPE | NUMBER | size | Preservative | Metals* | Cl, F, SO4 | pH | TDS | Ra226 & Ra228 | Alk: Tot, Carb, BiCarb | Diss Li & Mo | Custody Seals Present | Intact | LAB Sample Number |
|--------------------------|----------------|----------------|--------|----------------|--------|-------|---|--|------------|----|-----|---------------|------------------------|--------------|--------------------------|--------------------------|-------------------|
| Blank | 7-18-17 | 1430 | WW | P | 6 | 250mL | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | <input type="checkbox"/> | <input type="checkbox"/> | S171991640 |
| Mw-4 | | 1412 | WW | P | 6 | 500mL | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | <input type="checkbox"/> | <input type="checkbox"/> | S171991644 |
| Mw-8 | | 1037 | WW | P | 6 | 500mL | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | <input type="checkbox"/> | <input type="checkbox"/> | S171991648 |
| BV-1 | | 922 | WW | P | 6 | 500mL | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | <input type="checkbox"/> | <input type="checkbox"/> | S17199164C |
| BV-5 | | 958 | WW | P | 6 | 500mL | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | <input type="checkbox"/> | <input type="checkbox"/> | S17199164D |
| BV-10 | | 858 | WW | P | 6 | 500mL | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | <input type="checkbox"/> | <input type="checkbox"/> | S17199164E |
| BV-15 | | 1338 | WW | P | 6 | 500mL | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | <input type="checkbox"/> | <input type="checkbox"/> | S17199164F |

Required Turnaround: Routine (6-10 Business days) Expedite / Rush: 1 Business Day 2 Business Days 3 Business days 5 Business days Other

Surcharge will apply to RUSH/AU Authorized By: _____ Container Type: P=Plastic, G=Glass, V=Voa, O=Other Carrier ID: _____

Relinquished By: _____ Date: 7-18-17 Time: 15:10

Relinquished By: _____ Date: 7/18/17 Time: 16:26

Relinquished By: _____ Date: _____ Time: _____

B Environmental Laboratory, LLC
 1606 E Brazos Suite D Victoria, Texas 77901 ph: (361) 572-8224

Chain Of Custody Rec Batch # **57959**

TEMP UN-C: **46** Page **2 of 2**

TEMP CORR: **44**

Customer / Report Information

Billing Information

Check box if Billing is the same as Report Information

Therm ID#

TEMP CORR: **44**

Name: Coleto Creek Power

Address:

PO #

Phone: 361-788-5145

FAX:

Attention: Rick Coleman

Project: CCR Sampling

Requested Analysis

Completed By laboratory

Address: P. O. Box 8, Fannin, TX 77960

Comments:

Requested Analysis

Completed By laboratory

Sample Information

| Collected By: | Collected | | Matrix | Container | | Preservative | Metals* | Cl, F, SO4 | pH | TDS | Ra226 & Ra228 | Alk: Tot, Carb, Bi Carb | Diss Li & Mo | Custody Seals Present |
|---------------|-----------|------|--------|-----------|--------|--------------|---------|------------|----|-----|---------------|-------------------------|--------------|-----------------------|
| | Date | Time | | TYPE | NUMBER | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | |
|-------|---------|-----|---|----|---|------------------|---|--|---|---|---|---|---|---|------------|
| BV-19 | 7-18-17 | 819 | G | WW | P | 6 500ml 250ml | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | S17199164G |
|-------|---------|-----|---|----|---|------------------|---|--|---|---|---|---|---|---|------------|

| | | | | | | | | | | | | | | | |
|-------|----|-----|---|----|---|------------------|---|--|---|---|---|---|---|---|--|
| BV-19 | ms | 819 | G | WW | P | 6 500ml 250ml | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | |
|-------|----|-----|---|----|---|------------------|---|--|---|---|---|---|---|---|--|

| | | | | | | | | | | | | | | | |
|-------|-----|-----|---|----|---|------------------|---|--|---|---|---|---|---|---|--|
| BV-19 | MSD | 819 | G | WW | P | 6 500ml 250ml | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | |
|-------|-----|-----|---|----|---|------------------|---|--|---|---|---|---|---|---|--|

| | | | | | | | | | | | | | | | |
|-------|--|------|---|----|---|------------------|---|--|---|---|---|---|---|---|------------|
| BV-21 | | 1306 | G | WW | P | 6 500ml 250ml | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | S17199164H |
|-------|--|------|---|----|---|------------------|---|--|---|---|---|---|---|---|------------|

| | | | | | | | | | | | | | | | |
|-------|--|------|---|----|---|------------------|---|--|---|---|---|---|---|---|------------|
| BV-22 | | 1111 | G | WW | P | 6 500ml 250ml | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | S17199164I |
|-------|--|------|---|----|---|------------------|---|--|---|---|---|---|---|---|------------|

| | | | | | | | | | | | | | | | |
|-------|--|--|---|----|---|------------------|---|--|---|---|---|---|---|---|------------|
| Dup 1 | | | G | WW | P | 6 500ml 250ml | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE | <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | S17199164J |
|-------|--|--|---|----|---|------------------|---|--|---|---|---|---|---|---|------------|

Required Turnaround: Routine (6-10 Business days) Expedite / Rush: 1 Business Day 2 Business Days 3 Business days 5 Business days Other

REMARKS:

Surcharge will apply to RUS/TAZ Authorized BY:

Relinquished By: *[Signature]* Date: 7-18-17 Time: 15:10 Received By: *[Signature]* Date: 7/18/17 Time: 16:26

Relinquished By: *[Signature]* Date: 7/18/17 Time: 16:26 Received By: *[Signature]* Date: 7-18-17 Time: 16:26

Relinquished By: *[Signature]* Date: 7/18/17 Time: 16:26 Received By: *[Signature]* Date: 7-18-17 Time: 16:26

BatchNo: 58057

SAMPLE REPORT



T104704328-17-14

Business

Coletto Creek Power - R Coleman
PO Box 8
Fannin TX 77960
Att: Rick Coleman



Laboratory

B Environmental, LLC.
1606 E Brazos, Suite D
Victoria TX 77901
ph. 361-572-8224

Reference Information

Project: CCR Sampling
Printed: Friday,
September 08,
2017

Re: Coletto Creek Power - R Coleman

Dear: Rick Coleman

Attached are the results for sample(s) received on 7/20/2017

The analytical results relate only to the samples tested.

All supporting quality data meets the requirements of NELAC unless noted in the case narrative section of the report.

This report contains 45 pages (including the cover page)

If you have any questions concerning this report, please do not hesitate to call (361) 572-8224 or Fax us at (361) 572-4115

Respectfully Submitted,

Kevin Baros

Laboratory Director



B Environmental, LLC. 1606 E Brazos, Suite D Victoria TX 77901

This report shall not be reproduced except in full, without written approval of the laboratory

Batch No: 58057

Sample Receipt Checklist

Date Received: 7/20/2017

Project: CCR Sampling Received By: Woodruff

Login completed by: Woodruff 7/20/2017
Signature LoginDate:

Carrier Name: Walk In

- Shipping container/cooler in good condition? YES NO Not Present
- Custody seals intact on shipping container/cooler? YES NO Not Present
- Custody seals intact on sample bottles? YES NO Not Present
- Chain of Custody present? YES NO
- Chain of Custody signed when relinquished and received YES NO
- Chain of Custody agrees with sample labels? YES NO
- Samples in proper container/bottles? YES NO
- Sample containers intact? YES NO
- Sufficient sample volume for indicated tests? YES NO
- All samples received within holding times? YES NO
- Container/Temp Blank - temperature in compliance? YES NO >0 <6 °C On Ice
- Water - VOA vials have zero headspace? Bubble < 6mm? YES NO No VOA Vials submitted
- Water - pH acceptable upon receipt? YES NO Not Applicable

*TEMP 7.6/7.4 pH Adjusted? No Checked By L. Vahrenkamp

Any No and/or N/A (not applicable) response must be detailed in the comments section below.

Client contacted: PersonContacted:
Contacted by: Date Contacted:

Regarding:

Comments: Therm. #3. HNO3 Lot# 2-4212. The samples were received the same day they were collected and were in the process of cooling.

Corrective Action:



Sample Report Information



| | | | | | |
|-------------------|------------|-------------------|-------|-----------------|--------|
| Sample ID: | S172010707 | Client ID: | Dup 2 | Sampler: | Client |
|-------------------|------------|-------------------|-------|-----------------|--------|

Client: Coleta Creek Power - R Coleman
Study: Water
Project: CCR Sampling
Location: Dup
Notes:

Batch No: 58057
Sampled: 7/19/2017 12:00 AM
Type: Grab
Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 43 | mg/L | EPA 300 | K Baros | 7/21/2017 2:23 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 145 | mg/L | SM 2320 B | | 7/21/2017 14:15 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/21/2017 14:15 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 145 | mg/L | SM 2320 B | | 7/21/2017 14:15 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 1.02 | mg/L | EPA 300 | K Baros | 7/21/2017 2:23 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.3 | SU | SM 4500-H+B | C Watts | 7/19/2017 17:05 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 357 | mg/L | SM2540C | C Watts | 7/25/2017 17:30 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/28/2017 16:04 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 42 | mg/L | EPA 300 | K Baros | 7/21/2017 2:23 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 8/18/2017 8:07 | | | | | | <input checked="" type="checkbox"/> ARS International |



Sample Report Information



| | | | | | |
|-------------------|-------------------|-------------------|-------------|-----------------|---------------|
| Sample ID: | S172010710 | Client ID: | MW-5 | Sampler: | Client |
|-------------------|-------------------|-------------------|-------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman
Study: Water
Project: CCR Sampling
Location: MW #5
Notes:

Batch No: 58057
Sampled: 7/19/2017 11:05 AM
Type: Grab
Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 137 | mg/L | EPA 300 | K Baros | 7/21/2017 6:49 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 282 | mg/L | SM 2320 B | | 7/21/2017 14:26 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/21/2017 14:26 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 282 | mg/L | SM 2320 B | | 7/21/2017 14:26 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.53 | mg/L | EPA 300 | K Baros | 7/21/2017 6:49 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.04 | SU | SM 4500-H+B | C Watts | 7/19/2017 17:05 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 857 | mg/L | SM2540C | C Watts | 7/25/2017 17:30 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/28/2017 16:24 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 181 | mg/L | EPA 300 | K Baros | 7/21/2017 6:49 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 8/18/2017 8:07 | | | | | | <input checked="" type="checkbox"/> ARS International |



Sample Report Information



| | | | | | |
|-------------------|------------|-------------------|-------|-----------------|--------|
| Sample ID: | S172010711 | Client ID: | MW-9A | Sampler: | Client |
|-------------------|------------|-------------------|-------|-----------------|--------|

Client: Coletto Creek Power - R Coleman
Study: Water
Project: CCR Sampling
Location: MW 9A
Notes:

Batch No: 58057
Sampled: 7/19/2017 9:39 AM
Type: Grab
Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 60 | mg/L | EPA 300 | K Baros | 7/21/2017 7:27 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 135 | mg/L | SM 2320 B | | 7/21/2017 14:36 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/21/2017 14:36 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 135 | mg/L | SM 2320 B | | 7/21/2017 14:36 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 1.26 | mg/L | EPA 300 | K Baros | 7/21/2017 7:27 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.62 | SU | SM 4500-H+B | C Watts | 7/19/2017 17:05 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 383 | mg/L | SM2540C | C Watts | 7/25/2017 17:30 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/28/2017 16:28 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 62 | mg/L | EPA 300 | K Baros | 7/21/2017 7:27 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 8/18/2017 8:07 | | | | | | <input checked="" type="checkbox"/> ARS International |



Sample Report Information



| | | | | | |
|-------------------|------------|-------------------|-------|-----------------|--------|
| Sample ID: | S172010712 | Client ID: | MW-11 | Sampler: | Client |
|-------------------|------------|-------------------|-------|-----------------|--------|

Client: Coletto Creek Power - R Coleman **Batch No:** 58057
Study: Water **Sampled:** 7/19/2017 **8:43 AM**
Project: CCR Sampling
Location: MW #11 **Type:** Grab
Notes: **Matrix:** Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 43 | mg/L | EPA 300 | K Baros | 7/21/2017 8:05 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 144 | mg/L | SM 2320 B | | 7/21/2017 15:09 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/21/2017 15:09 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 144 | mg/L | SM 2320 B | | 7/21/2017 15:09 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 1.01 | mg/L | EPA 300 | K Baros | 7/21/2017 8:05 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.61 | SU | SM 4500-H+B | C Watts | 7/19/2017 17:05 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 360 | mg/L | SM2540C | C Watts | 7/25/2017 17:30 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/28/2017 16:32 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 42 | mg/L | EPA 300 | K Baros | 7/21/2017 8:05 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 8/24/2017 8:24 | | | | | | <input checked="" type="checkbox"/> ARS International |



Sample Report Information



| | | | | | |
|-------------------|------------|-------------------|------|-----------------|--------|
| Sample ID: | S17201071A | Client ID: | MW-9 | Sampler: | Client |
|-------------------|------------|-------------------|------|-----------------|--------|

Client: Coletto Creek Power - R Coleman
Study: Water
Project: CCR Sampling
Location: MW #9
Notes:

Batch No: 58057
Sampled: 7/19/2017 10:14 AM
Type: Grab
Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 63 | mg/L | EPA 300 | K Baros | 7/21/2017 3:01 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 130 | mg/L | SM 2320 B | | 7/21/2017 14:31 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/21/2017 14:31 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 130 | mg/L | SM 2320 B | | 7/21/2017 14:31 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 1.4 | mg/L | EPA 300 | K Baros | 7/21/2017 3:01 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.52 | SU | SM 4500-H+B | C Watts | 7/19/2017 17:05 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 407 | mg/L | SM2540C | C Watts | 7/25/2017 17:30 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/28/2017 16:26 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 62 | mg/L | EPA 300 | K Baros | 7/21/2017 3:01 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 8/18/2017 8:07 | | | | | | <input checked="" type="checkbox"/> ARS International |



Sample Report Information



| | | |
|-----------------------|------------------|-----------------|
| Sample ID: S17201071B | Client ID: MW-10 | Sampler: Client |
|-----------------------|------------------|-----------------|

Client: Coletto Creek Power - R Coleman
 Study: Water
 Project: CCR Sampling
 Location: MW #10
 Notes:

Batch No: 58057
 Sampled: 7/19/2017 12:55 PM
 Type: Grab
 Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 74 | mg/L | EPA 300 | K Baros | 7/21/2017 3:39 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 223 | mg/L | SM 2320 B | | 7/21/2017 16:20 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/21/2017 16:20 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 223 | mg/L | SM 2320 B | | 7/21/2017 16:20 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.86 | mg/L | EPA 300 | K Baros | 7/21/2017 3:39 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.37 | SU | SM 4500-H+B | C Watts | 7/19/2017 17:05 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 533 | mg/L | SM2540C | C Watts | 7/25/2017 17:30 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/28/2017 16:20 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 86 | mg/L | EPA 300 | K Baros | 7/21/2017 3:39 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 8/18/2017 8:07 | | | | | | <input checked="" type="checkbox"/> ARS International |



Sample Report Information



| | | | | | |
|------------|------------|------------|--------|----------|--------|
| Sample ID: | S17201071C | Client ID: | MW-10A | Sampler: | Client |
|------------|------------|------------|--------|----------|--------|

Client: Coletto Creek Power - R Coleman
 Study: Water
 Project: CCR Sampling
 Location: MW 10A
 Notes:

Batch No: 58057
 Sampled: 7/19/2017 1:38 PM
 Type: Grab
 Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 367 | mg/L | EPA 300 | K Baros | 7/21/2017 17:33 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 326 | mg/L | SM 2320 B | | 7/21/2017 15:03 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/21/2017 15:03 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 326 | mg/L | SM 2320 B | | 7/21/2017 15:03 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.44 | mg/L | EPA 300 | K Baros | 7/21/2017 17:33 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 6.85 | SU | SM 4500-H+B | C Watts | 7/19/2017 17:05 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 1153 | mg/L | SM2540C | C Watts | 7/25/2017 17:30 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | c | # | | | 7/28/2017 16:30 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 85 | mg/L | EPA 300 | K Baros | 7/21/2017 17:33 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | c | # | | | 8/24/2017 8:24 | | | | | | <input checked="" type="checkbox"/> ARS International |



Sample Report Information



| | | | |
|------------------------------|------------------------|-----------------|---------------|
| Sample ID: S17201071D | Client ID: PS-3 | Sampler: | Client |
|------------------------------|------------------------|-----------------|---------------|

Client: Coletto Creek Power - R Coleman
Study: Water
Project: CCR Sampling
Location: PS 3
Notes:

Batch No: 58057
Sampled: 7/19/2017 8:11 AM
Type: Grab
Matrix: Water

Case Narrative:

| Analyte | Result | Units | Method | Analyst | Date/Time Analyzed | LOQ | MDL | DF | Qual | S/Out | Laboratory |
|-------------------------|--------|-------|-------------|---------|--------------------|------|------|----|------|-------|--|
| - Chloride, IC | 50 | mg/L | EPA 300 | K Baros | 7/21/2017 18:11 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Alkalinity, Bicarbonate | 179 | mg/L | SM 2320 B | | 7/21/2017 15:15 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Carbonate | < 20 | mg/L | SM 2320 B | | 7/21/2017 15:15 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Alkalinity, Total | 179 | mg/L | SM 2320 B | | 7/21/2017 15:15 | 10 | 10 | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Fluoride, IC | 0.83 | mg/L | EPA 300 | K Baros | 7/21/2017 18:11 | 0.25 | 0.25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| pH (Standard Units) | 7.37 | SU | SM 4500-H+B | C Watts | 7/19/2017 17:05 | | | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| Solids, Total Dissolved | 367 | mg/L | SM2540C | C Watts | 7/25/2017 17:30 | 25 | 25 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| SUB-OUT-Metals | C | # | | | 7/28/2017 16:34 | | | | | | <input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8 |
| Sulfate, IC | 32 | mg/L | EPA 300 | K Baros | 7/21/2017 18:11 | 1 | 1 | | | | <input type="checkbox"/> B- E Cert. # T104704328-17-14 |
| x-SUB OUT Misc. | C | # | | | 8/24/2017 8:24 | | | | | | <input checked="" type="checkbox"/> ARS International |









QA Summary Report

| Parameter | ID | Result | Ref Value | Amt Added | LOQ | Qualifier | Control | Flag | Comments |
|--|------------|-----------|-----------|-----------|------|-----------|------------------|----------------|---|
| Method Blank | | | | | | | | | |
| - Chloride, IC 7/20/2017 16:51 | Q172111612 | <1mg/L | 0 | | | 1 | 1 | | Blank Acceptable. |
| Fluoride, IC 7/20/2017 16:51 | Q172111612 | <0.25mg/L | 0 | | 0.25 | | 0.25 | | Blank Acceptable. |
| Nitrate-N, IC 7/20/2017 16:51 | Q172111612 | <0.06mg/L | 0 | | 0.06 | | 0.06 | | Blank Acceptable. |
| Phosphate-P, IC 7/20/2017 16:51 | Q172111612 | <0.33mg/L | 0 | | 0.33 | | 0.33 | | Blank Acceptable. |
| Solids, Total Dissolved 7/25/2017 17:30 | Q172091410 | <25mg/L | 0 | | 10 | | 25 | | Blank Acceptable. |
| Sulfate, IC 7/20/2017 16:51 | Q172111612 | <1mg/L | 0 | | | 1 | 1 | | Blank Acceptable. |
| Duplicate | | | | | | | | | |
| pH (Standard Units) 7/19/2017 17:05 | Q172051218 | 7.38SU | 7.37 | | | 2 | 0.1% | 20 | Duplicate RPD Acceptable. |
| Solids, Total Dissolved 7/25/2017 17:30 | Q172091411 | 550mg/L | 533 | | 10 | 3.1% | | 20 | Duplicate RPD Acceptable. |
| Laboratory Control Standard | | | | | | | | | |
| - Chloride, IC 7/20/2017 17:29 | Q172111615 | 25.37mg/L | 25 | | | 1 | 101.5% 1.5% | 80 - 120 20 | Standard Recovery Acceptable. Standard RPD Acceptable. |
| Fluoride, IC 7/20/2017 17:29 | Q172111615 | 2.036mg/L | 2 | | 0.25 | 101.8% | 80 - 120 1.8% | 20 | Standard Recovery Acceptable. Standard RPD Acceptable. |
| Nitrate-N, IC 7/20/2017 17:29 | Q172111615 | 0.43mg/L | 0.45 | | 0.06 | 95.6% | 80 - 120 4.5% | 25 | Standard Recovery Acceptable. Standard RPD Acceptable. |
| pH (Standard Units) 7/19/2017 17:05 | Q172051217 | 7.03SU | 7 | | | 2 | 100.4% 0.4% | 80 - 120 20 | Standard Recovery Acceptable. Standard RPD Acceptable. |
| Phosphate-P, IC 7/20/2017 17:29 | Q172111615 | 3.13mg/L | 3.26 | | 0.33 | 96.0% | 80 - 120 4.1% | 20 | Standard Recovery Acceptable. Standard RPD Acceptable. |
| Sulfate, IC 7/20/2017 17:29 | Q172111615 | 25.57mg/L | 25 | | | 1 | 102.3% 2.3% | 80 - 120 20 | Standard Recovery Acceptable. Standard RPD Acceptable. |
| Matrix Spike | | | | | | | | | |
| - Chloride, IC 7/21/2017 13:06 | Q172111616 | 93.2mg/L | 91.2 | 25 | | 1 | 108.0% 2.2% | 80 - 120 20 | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Fluoride, IC 7/21/2017 13:06 | Q172111616 | 2.63mg/L | 2.77 | 2 | 0.25 | 93.0% | 80 - 120 5.2% | 20 | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Nitrate-N, IC 7/21/2017 13:06 | Q172111616 | 2.043mg/L | 2.25 | 2.25 | 0.06 | 90.8% | 80 - 120 9.6% | 20 | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Phosphate-P, IC 7/21/2017 13:06 | Q172111616 | 15.4mg/L | 16.62 | 16.3 | 0.33 | 92.5% | 80 - 120 7.6% | 20 | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Sulfate, IC 7/21/2017 13:06 | Q172111616 | 105.4mg/L | 102.2 | 25 | | 1 | 112.8% 3.1% | 70 - 130 20 | Spike Recovery Acceptable. Spike RPD Acceptable. |



| Parameter | ID | Result | Ref Value | Amt Added | LOQ | Qualifier | Control | Flag | Comments |
|------------------------------------|------------|-----------|-----------|-----------|------|----------------|----------------|------|---|
| Matrix Spike Dup | | | | | | | | | |
| - Chloride, IC 7/21/2017 16:55 | Q17211161C | 92.5mg/L | 91.2 | 25 | 1 | 105.2% 1.4% | 80 - 120 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Fluoride, IC 7/21/2017 16:55 | Q17211161C | 2.61mg/L | 2.77 | 2 | 0.25 | 92.0% 5.9% | 80 - 120 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Nitrate-N, IC 7/21/2017 16:55 | Q17211161C | 2.03mg/L | 2.25 | 2.25 | 0.06 | 90.2% 10.3% | 80 - 120 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Phosphate-P, IC 7/21/2017 16:55 | Q17211161C | 15.52mg/L | 16.62 | 16.3 | 0.33 | 93.3% 6.8% | 80 - 120 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |
| Sulfate, IC 7/21/2017 16:55 | Q17211161C | 103.3mg/L | 102.2 | 25 | 1 | 104.4% 1.1% | 70 - 130 20 | | Spike Recovery Acceptable. Spike RPD Acceptable. |

Flag and Qualifier Legend

| | | |
|--|--|---|
|  Negative - Result Detected | MDL = Method Detection Limit | DF = Dilution Factor |
|  Caution - Problem Detected | LOQ = Limit of Quantitation | j = Analyte detected between MDL and LOQ |
|  Warning - Null Value | S = surrogate standard out of limit | H = sample out of hold time |
|  MS, MSD, RPD- Failure may occur due to matrix interference, data released per QA plan | | |

Friday, September 08, 2017

B Environmental - LDMS QA Report Summary

Note:

THANK YOU!



CLIENT: B-Environmental
Project: Coleta Creek Power
Lab Order: 1707200

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition and Standard Methods.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives except where noted in the following. For Total Metals Analysis, the recoveries of up to three analytes for the Matrix Spike and Matrix Spike Duplicate (1707200-05 MS/MSD) were above the method control limits. These are flagged accordingly in the QC Summary Report. These analytes were within method control limits in the associated LCS. No further corrective action was taken.

For Total Mercury Analysis, the recovery of the Post Digestion Spike (1707200-05 PDS) was slightly below the method control limits. This is flagged accordingly in the QC Summary Report. The associated Serial Dilution was within method control limits. No further corrective action was taken.

For Total/Dissolved Metals Analysis, the results of Dissolved Lithium/Molybdenum for the samples were slightly higher than the results of Total Lithium/Molybdenum. The results were within acceptable analytical variation limits. No further corrective action was taken.

DHL Analytical, Inc.

Date: 31-Jul-17

CLIENT: B-Environmental
Project: Coledo Creek Power
Project No: CCR Sampling (58057)
Lab Order: 1707200

Client Sample ID: Dup 2
Lab ID: 1707200-01
Collection Date: 07/19/17
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|--------|----------------|-------|---------------------|---------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 14.3 | 5.00 | 10.0 | | µg/L | 1 | 07/25/17 04:04 PM |
| Dissolved Molybdenum | 8.06 | 2.00 | 5.00 | | µg/L | 1 | 07/25/17 04:04 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | ND | 0.800 | 2.50 | | µg/L | 1 | 07/28/17 04:01 PM |
| Arsenic | 23.1 | 2.00 | 5.00 | | µg/L | 1 | 07/28/17 04:01 PM |
| Barium | 74.1 | 3.00 | 10.0 | | µg/L | 1 | 07/28/17 04:01 PM |
| Beryllium | ND | 0.300 | 1.00 | | µg/L | 1 | 07/28/17 04:01 PM |
| Boron | 1180 | 100 | 300 | | µg/L | 10 | 07/31/17 11:24 AM |
| Cadmium | ND | 0.300 | 1.00 | | µg/L | 1 | 07/28/17 04:01 PM |
| Calcium | 53700 | 1000 | 3000 | | µg/L | 10 | 07/31/17 11:24 AM |
| Chromium | 8.95 | 2.00 | 5.00 | | µg/L | 1 | 07/28/17 04:01 PM |
| Cobalt | 3.00 | 3.00 | 5.00 | J | µg/L | 1 | 07/28/17 04:01 PM |
| Lead | 2.84 | 0.300 | 1.00 | | µg/L | 1 | 07/28/17 04:01 PM |
| Lithium | 13.7 | 5.00 | 10.0 | | µg/L | 1 | 07/28/17 04:01 PM |
| Magnesium | 4550 | 100 | 300 | | µg/L | 1 | 07/28/17 04:01 PM |
| Molybdenum | 7.44 | 2.00 | 5.00 | | µg/L | 1 | 07/28/17 04:01 PM |
| Potassium | 1940 | 100 | 300 | | µg/L | 1 | 07/28/17 04:01 PM |
| Selenium | ND | 2.00 | 5.00 | | µg/L | 1 | 07/28/17 04:01 PM |
| Sodium | 62800 | 1000 | 3000 | | µg/L | 10 | 07/31/17 11:24 AM |
| Thallium | ND | 0.500 | 1.50 | | µg/L | 1 | 07/28/17 04:01 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | ND | 0.0800 | 0.200 | | µg/L | 1 | 07/25/17 01:04 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 145 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 07/21/17 02:15 PM |
| Alkalinity, Carbonate (As CaCO3) | ND | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 07/21/17 02:15 PM |
| Alkalinity, Hydroxide (As CaCO3) | ND | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 07/21/17 02:15 PM |
| Alkalinity, Total (As CaCO3) | 145 | 20.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 07/21/17 02:15 PM |

Qualifiers:

| | | | |
|-----|---|----|---|
| * | Value exceeds TCLP Maximum Concentration Level | B | Analyte detected in the associated Method Blank |
| C | Sample Result or QC discussed in the Case Narrative | DF | Dilution Factor |
| E | TPH pattern not Gas or Diesel Range Pattern | J | Analyte detected between MDL and RL |
| MDL | Method Detection Limit | ND | Not Detected at the Method Detection Limit |
| RL | Reporting Limit | S | Spike Recovery outside control limits |
| N | Parameter not NELAC certified | | |

DHL Analytical, Inc.

Date: 31-Jul-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (58057)
Lab Order: 1707200

Client Sample ID: MW-5
Lab ID: 1707200-02
Collection Date: 07/19/17 11:05 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|--------|----------------|-------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 21.1 | 5.00 | 10.0 | | µg/L | 1 | 07/25/17 04:06 PM |
| Dissolved Molybdenum | ND | 2.00 | 5.00 | | µg/L | 1 | 07/25/17 04:06 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | ND | 0.800 | 2.50 | | µg/L | 1 | 07/28/17 04:24 PM |
| Arsenic | 9.41 | 2.00 | 5.00 | | µg/L | 1 | 07/28/17 04:24 PM |
| Barium | 73.5 | 3.00 | 10.0 | | µg/L | 1 | 07/28/17 04:24 PM |
| Beryllium | ND | 0.300 | 1.00 | | µg/L | 1 | 07/28/17 04:24 PM |
| Boron | 142 | 10.0 | 30.0 | | µg/L | 1 | 07/31/17 12:38 PM |
| Cadmium | ND | 0.300 | 1.00 | | µg/L | 1 | 07/28/17 04:24 PM |
| Calcium | 122000 | 2000 | 6000 | | µg/L | 20 | 07/31/17 11:26 AM |
| Chromium | 3.64 | 2.00 | 5.00 | J | µg/L | 1 | 07/28/17 04:24 PM |
| Cobalt | ND | 3.00 | 5.00 | | µg/L | 1 | 07/28/17 04:24 PM |
| Lead | ND | 0.300 | 1.00 | | µg/L | 1 | 07/28/17 04:24 PM |
| Lithium | 18.6 | 5.00 | 10.0 | | µg/L | 1 | 07/28/17 04:24 PM |
| Magnesium | 22200 | 100 | 300 | | µg/L | 1 | 07/28/17 04:24 PM |
| Molybdenum | ND | 2.00 | 5.00 | | µg/L | 1 | 07/28/17 04:24 PM |
| Potassium | 1530 | 100 | 300 | | µg/L | 1 | 07/28/17 04:24 PM |
| Selenium | ND | 2.00 | 5.00 | | µg/L | 1 | 07/28/17 04:24 PM |
| Sodium | 129000 | 2000 | 6000 | | µg/L | 20 | 07/31/17 11:26 AM |
| Thallium | ND | 0.500 | 1.50 | | µg/L | 1 | 07/28/17 04:24 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | ND | 0.0800 | 0.200 | | µg/L | 1 | 07/25/17 01:07 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 282 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/21/17 02:26 PM |
| Alkalinity, Carbonate (As CaCO3) | ND | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/21/17 02:26 PM |
| Alkalinity, Hydroxide (As CaCO3) | ND | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/21/17 02:26 PM |
| Alkalinity, Total (As CaCO3) | 282 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/21/17 02:26 PM |

Qualifiers:

| | | | |
|-----|---|----|---|
| * | Value exceeds TCLP Maximum Concentration Level | B | Analyte detected in the associated Method Blank |
| C | Sample Result or QC discussed in the Case Narrative | DF | Dilution Factor |
| E | TPH pattern not Gas or Diesel Range Pattern | J | Analyte detected between MDL and RL |
| MDL | Method Detection Limit | ND | Not Detected at the Method Detection Limit |
| RL | Reporting Limit | S | Spike Recovery outside control limits |
| N | Parameter not NELAC certified | | |

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (58057)
Lab Order: 1707200

Client Sample ID: MW-9
Lab ID: 1707200-03
Collection Date: 07/19/17 10:14 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|--------|----------------|-------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 5.47 | 5.00 | 10.0 | J | µg/L | 1 | 07/25/17 04:08 PM |
| Dissolved Molybdenum | 117 | 2.00 | 5.00 | | µg/L | 1 | 07/25/17 04:08 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | ND | 0.800 | 2.50 | | µg/L | 1 | 07/28/17 04:26 PM |
| Arsenic | 10.3 | 2.00 | 5.00 | | µg/L | 1 | 07/28/17 04:26 PM |
| Barium | 101 | 3.00 | 10.0 | | µg/L | 1 | 07/28/17 04:26 PM |
| Beryllium | ND | 0.300 | 1.00 | | µg/L | 1 | 07/28/17 04:26 PM |
| Boron | 3400 | 100 | 300 | | µg/L | 10 | 07/31/17 11:28 AM |
| Cadmium | ND | 0.300 | 1.00 | | µg/L | 1 | 07/28/17 04:26 PM |
| Calcium | 50200 | 1000 | 3000 | | µg/L | 10 | 07/31/17 11:28 AM |
| Chromium | 3.21 | 2.00 | 5.00 | J | µg/L | 1 | 07/28/17 04:26 PM |
| Cobalt | 3.23 | 3.00 | 5.00 | J | µg/L | 1 | 07/28/17 04:26 PM |
| Lead | 0.766 | 0.300 | 1.00 | J | µg/L | 1 | 07/28/17 04:26 PM |
| Lithium | 5.90 | 5.00 | 10.0 | J | µg/L | 1 | 07/28/17 04:26 PM |
| Magnesium | 6740 | 100 | 300 | | µg/L | 1 | 07/28/17 04:26 PM |
| Molybdenum | 113 | 2.00 | 5.00 | | µg/L | 1 | 07/28/17 04:26 PM |
| Potassium | 1080 | 100 | 300 | | µg/L | 1 | 07/28/17 04:26 PM |
| Selenium | ND | 2.00 | 5.00 | | µg/L | 1 | 07/28/17 04:26 PM |
| Sodium | 62400 | 1000 | 3000 | | µg/L | 10 | 07/31/17 11:28 AM |
| Thallium | ND | 0.500 | 1.50 | | µg/L | 1 | 07/28/17 04:26 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | ND | 0.0800 | 0.200 | | µg/L | 1 | 07/25/17 01:09 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 130 | 10.0 | 20.0 | | mg/L @ pH 4.49 | 1 | 07/21/17 02:31 PM |
| Alkalinity, Carbonate (As CaCO3) | ND | 10.0 | 20.0 | | mg/L @ pH 4.49 | 1 | 07/21/17 02:31 PM |
| Alkalinity, Hydroxide (As CaCO3) | ND | 10.0 | 20.0 | | mg/L @ pH 4.49 | 1 | 07/21/17 02:31 PM |
| Alkalinity, Total (As CaCO3) | 130 | 20.0 | 20.0 | | mg/L @ pH 4.49 | 1 | 07/21/17 02:31 PM |

Qualifiers:

| | | | |
|-----|---|----|---|
| * | Value exceeds TCLP Maximum Concentration Level | B | Analyte detected in the associated Method Blank |
| C | Sample Result or QC discussed in the Case Narrative | DF | Dilution Factor |
| E | TPH pattern not Gas or Diesel Range Pattern | J | Analyte detected between MDL and RL |
| MDL | Method Detection Limit | ND | Not Detected at the Method Detection Limit |
| RL | Reporting Limit | S | Spike Recovery outside control limits |
| N | Parameter not NELAC certified | | |

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (58057)
Lab Order: 1707200

Client Sample ID: MW-9A
Lab ID: 1707200-04
Collection Date: 07/19/17 09:39 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|--------|----------------|-------|---------------------|---------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 6.45 | 5.00 | 10.0 | J | µg/L | 1 | 07/25/17 04:10 PM |
| Dissolved Molybdenum | 73.4 | 2.00 | 5.00 | | µg/L | 1 | 07/25/17 04:10 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | ND | 0.800 | 2.50 | | µg/L | 1 | 07/28/17 04:28 PM |
| Arsenic | 11.3 | 2.00 | 5.00 | | µg/L | 1 | 07/28/17 04:28 PM |
| Barium | 125 | 3.00 | 10.0 | | µg/L | 1 | 07/28/17 04:28 PM |
| Beryllium | ND | 0.300 | 1.00 | | µg/L | 1 | 07/28/17 04:28 PM |
| Boron | 3220 | 100 | 300 | | µg/L | 10 | 07/31/17 11:30 AM |
| Cadmium | ND | 0.300 | 1.00 | | µg/L | 1 | 07/28/17 04:28 PM |
| Calcium | 88600 | 1000 | 3000 | | µg/L | 10 | 07/31/17 11:30 AM |
| Chromium | 7.87 | 2.00 | 5.00 | | µg/L | 1 | 07/28/17 04:28 PM |
| Cobalt | 3.74 | 3.00 | 5.00 | J | µg/L | 1 | 07/28/17 04:28 PM |
| Lead | 2.48 | 0.300 | 1.00 | | µg/L | 1 | 07/28/17 04:28 PM |
| Lithium | 6.98 | 5.00 | 10.0 | J | µg/L | 1 | 07/28/17 04:28 PM |
| Magnesium | 8540 | 100 | 300 | | µg/L | 1 | 07/28/17 04:28 PM |
| Molybdenum | 69.6 | 2.00 | 5.00 | | µg/L | 1 | 07/28/17 04:28 PM |
| Potassium | 1070 | 100 | 300 | | µg/L | 1 | 07/28/17 04:28 PM |
| Selenium | ND | 2.00 | 5.00 | | µg/L | 1 | 07/28/17 04:28 PM |
| Sodium | 63900 | 1000 | 3000 | | µg/L | 10 | 07/31/17 11:30 AM |
| Thallium | ND | 0.500 | 1.50 | | µg/L | 1 | 07/28/17 04:28 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | ND | 0.0800 | 0.200 | | µg/L | 1 | 07/25/17 01:11 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 135 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 07/21/17 02:36 PM |
| Alkalinity, Carbonate (As CaCO3) | ND | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 07/21/17 02:36 PM |
| Alkalinity, Hydroxide (As CaCO3) | ND | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 07/21/17 02:36 PM |
| Alkalinity, Total (As CaCO3) | 135 | 20.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 07/21/17 02:36 PM |

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds TCLP Maximum Concentration Level | B Analyte detected in the associated Method Blank |
| | C Sample Result or QC discussed in the Case Narrative | DF Dilution Factor |
| | E TPH pattern not Gas or Diesel Range Pattern | J Analyte detected between MDL and RL |
| | MDL Method Detection Limit | ND Not Detected at the Method Detection Limit |
| | RL Reporting Limit | S Spike Recovery outside control limits |
| | N Parameter not NELAC certified | |

DHL Analytical, Inc.

Date: 31-Jul-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (58057)
Lab Order: 1707200

Client Sample ID: MW-10
Lab ID: 1707200-05
Collection Date: 07/19/17 12:55 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|--------|----------------|-------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 12.8 | 5.00 | 10.0 | | µg/L | 1 | 07/25/17 04:00 PM |
| Dissolved Molybdenum | 125 | 2.00 | 5.00 | | µg/L | 1 | 07/25/17 04:00 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | ND | 0.800 | 2.50 | | µg/L | 1 | 07/28/17 04:20 PM |
| Arsenic | 14.6 | 2.00 | 5.00 | | µg/L | 1 | 07/28/17 04:20 PM |
| Barium | 63.3 | 3.00 | 10.0 | | µg/L | 1 | 07/28/17 04:20 PM |
| Beryllium | ND | 0.300 | 1.00 | | µg/L | 1 | 07/28/17 04:20 PM |
| Boron | 8740 | 200 | 600 | | µg/L | 20 | 07/31/17 11:20 AM |
| Cadmium | ND | 0.300 | 1.00 | | µg/L | 1 | 07/28/17 04:20 PM |
| Calcium | 56600 | 2000 | 6000 | | µg/L | 20 | 07/31/17 11:20 AM |
| Chromium | 9.63 | 2.00 | 5.00 | | µg/L | 1 | 07/28/17 04:20 PM |
| Cobalt | ND | 3.00 | 5.00 | | µg/L | 1 | 07/28/17 04:20 PM |
| Lead | 0.684 | 0.300 | 1.00 | J | µg/L | 1 | 07/28/17 04:20 PM |
| Lithium | 12.7 | 5.00 | 10.0 | | µg/L | 1 | 07/28/17 04:20 PM |
| Magnesium | 9010 | 100 | 300 | | µg/L | 1 | 07/28/17 04:20 PM |
| Molybdenum | 121 | 2.00 | 5.00 | | µg/L | 1 | 07/28/17 04:20 PM |
| Potassium | 926 | 100 | 300 | | µg/L | 1 | 07/28/17 04:20 PM |
| Selenium | ND | 2.00 | 5.00 | | µg/L | 1 | 07/28/17 04:20 PM |
| Sodium | 136000 | 2000 | 6000 | | µg/L | 20 | 07/31/17 11:20 AM |
| Thallium | ND | 0.500 | 1.50 | | µg/L | 1 | 07/28/17 04:20 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | ND | 0.0800 | 0.200 | | µg/L | 1 | 07/25/17 01:13 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 223 | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/21/17 02:43 PM |
| Alkalinity, Carbonate (As CaCO3) | ND | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/21/17 02:43 PM |
| Alkalinity, Hydroxide (As CaCO3) | ND | 10.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/21/17 02:43 PM |
| Alkalinity, Total (As CaCO3) | 223 | 20.0 | 20.0 | | mg/L @ pH 4.52 | 1 | 07/21/17 02:43 PM |

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds TCLP Maximum Concentration Level | B Analyte detected in the associated Method Blank |
| | C Sample Result or QC discussed in the Case Narrative | DF Dilution Factor |
| | E TPH pattern not Gas or Diesel Range Pattern | J Analyte detected between MDL and RL |
| | MDL Method Detection Limit | ND Not Detected at the Method Detection Limit |
| | RL Reporting Limit | S Spike Recovery outside control limits |
| | N Parameter not NELAC certified | |

DHL Analytical, Inc.

Date: 31-Jul-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (58057)
Lab Order: 1707200

Client Sample ID: MW-10A
Lab ID: 1707200-06
Collection Date: 07/19/17 01:38 PM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|--------|----------------|-------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 27.5 | 5.00 | 10.0 | | µg/L | 1 | 07/25/17 04:12 PM |
| Dissolved Molybdenum | 3.20 | 2.00 | 5.00 | J | µg/L | 1 | 07/25/17 04:12 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | ND | 0.800 | 2.50 | | µg/L | 1 | 07/28/17 04:30 PM |
| Arsenic | 5.23 | 2.00 | 5.00 | | µg/L | 1 | 07/28/17 04:30 PM |
| Barium | 99.4 | 3.00 | 10.0 | | µg/L | 1 | 07/28/17 04:30 PM |
| Beryllium | ND | 0.300 | 1.00 | | µg/L | 1 | 07/28/17 04:30 PM |
| Boron | 249 | 10.0 | 30.0 | | µg/L | 1 | 07/31/17 12:40 PM |
| Cadmium | ND | 0.300 | 1.00 | | µg/L | 1 | 07/28/17 04:30 PM |
| Calcium | 174000 | 2000 | 6000 | | µg/L | 20 | 07/31/17 11:32 AM |
| Chromium | 21.8 | 2.00 | 5.00 | | µg/L | 1 | 07/28/17 04:30 PM |
| Cobalt | ND | 3.00 | 5.00 | | µg/L | 1 | 07/28/17 04:30 PM |
| Lead | 0.369 | 0.300 | 1.00 | J | µg/L | 1 | 07/28/17 04:30 PM |
| Lithium | 24.3 | 5.00 | 10.0 | | µg/L | 1 | 07/28/17 04:30 PM |
| Magnesium | 30800 | 2000 | 6000 | | µg/L | 20 | 07/31/17 11:32 AM |
| Molybdenum | 3.40 | 2.00 | 5.00 | J | µg/L | 1 | 07/28/17 04:30 PM |
| Potassium | 1800 | 100 | 300 | | µg/L | 1 | 07/28/17 04:30 PM |
| Selenium | 2.48 | 2.00 | 5.00 | J | µg/L | 1 | 07/28/17 04:30 PM |
| Sodium | 170000 | 2000 | 6000 | | µg/L | 20 | 07/31/17 11:32 AM |
| Thallium | ND | 0.500 | 1.50 | | µg/L | 1 | 07/28/17 04:30 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | ND | 0.0800 | 0.200 | | µg/L | 1 | 07/25/17 01:25 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 326 | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 07/21/17 03:03 PM |
| Alkalinity, Carbonate (As CaCO3) | ND | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 07/21/17 03:03 PM |
| Alkalinity, Hydroxide (As CaCO3) | ND | 10.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 07/21/17 03:03 PM |
| Alkalinity, Total (As CaCO3) | 326 | 20.0 | 20.0 | | mg/L @ pH 4.53 | 1 | 07/21/17 03:03 PM |

Qualifiers:

| | | | |
|-----|---|----|---|
| * | Value exceeds TCLP Maximum Concentration Level | B | Analyte detected in the associated Method Blank |
| C | Sample Result or QC discussed in the Case Narrative | DF | Dilution Factor |
| E | TPH pattern not Gas or Diesel Range Pattern | J | Analyte detected between MDL and RL |
| MDL | Method Detection Limit | ND | Not Detected at the Method Detection Limit |
| RL | Reporting Limit | S | Spike Recovery outside control limits |
| N | Parameter not NELAC certified | | |

DHL Analytical, Inc.

Date: 31-Jul-17

CLIENT: B-Environmental
Project: Coletto Creek Power
Project No: CCR Sampling (58057)
Lab Order: 1707200

Client Sample ID: MW-11
Lab ID: 1707200-07
Collection Date: 07/19/17 08:43 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|--------|----------------|-------|---------------------|---------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 13.8 | 5.00 | 10.0 | | µg/L | 1 | 07/25/17 04:14 PM |
| Dissolved Molybdenum | 8.27 | 2.00 | 5.00 | | µg/L | 1 | 07/25/17 04:14 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | ND | 0.800 | 2.50 | | µg/L | 1 | 07/28/17 04:32 PM |
| Arsenic | 22.4 | 2.00 | 5.00 | | µg/L | 1 | 07/28/17 04:32 PM |
| Barium | 70.9 | 3.00 | 10.0 | | µg/L | 1 | 07/28/17 04:32 PM |
| Beryllium | ND | 0.300 | 1.00 | | µg/L | 1 | 07/28/17 04:32 PM |
| Boron | 1170 | 100 | 300 | | µg/L | 10 | 07/31/17 11:34 AM |
| Cadmium | ND | 0.300 | 1.00 | | µg/L | 1 | 07/28/17 04:32 PM |
| Calcium | 48600 | 1000 | 3000 | | µg/L | 10 | 07/31/17 11:34 AM |
| Chromium | 7.62 | 2.00 | 5.00 | | µg/L | 1 | 07/28/17 04:32 PM |
| Cobalt | ND | 3.00 | 5.00 | | µg/L | 1 | 07/28/17 04:32 PM |
| Lead | 1.80 | 0.300 | 1.00 | | µg/L | 1 | 07/28/17 04:32 PM |
| Lithium | 13.7 | 5.00 | 10.0 | | µg/L | 1 | 07/28/17 04:32 PM |
| Magnesium | 41.10 | 100 | 300 | | µg/L | 1 | 07/28/17 04:32 PM |
| Molybdenum | 7.83 | 2.00 | 5.00 | | µg/L | 1 | 07/28/17 04:32 PM |
| Potassium | 1720 | 100 | 300 | | µg/L | 1 | 07/28/17 04:32 PM |
| Selenium | ND | 2.00 | 5.00 | | µg/L | 1 | 07/28/17 04:32 PM |
| Sodium | 63100 | 1000 | 3000 | | µg/L | 10 | 07/31/17 11:34 AM |
| Thallium | ND | 0.500 | 1.50 | | µg/L | 1 | 07/28/17 04:32 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | ND | 0.0800 | 0.200 | | µg/L | 1 | 07/25/17 01:27 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 144 | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 07/21/17 03:09 PM |
| Alkalinity, Carbonate (As CaCO3) | ND | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 07/21/17 03:09 PM |
| Alkalinity, Hydroxide (As CaCO3) | ND | 10.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 07/21/17 03:09 PM |
| Alkalinity, Total (As CaCO3) | 144 | 20.0 | 20.0 | | mg/L @ pH 4.5 | 1 | 07/21/17 03:09 PM |

Qualifiers:

| | | | |
|-----|---|----|---|
| * | Value exceeds TCLP Maximum Concentration Level | B | Analyte detected in the associated Method Blank |
| C | Sample Result or QC discussed in the Case Narrative | DF | Dilution Factor |
| E | TPH pattern not Gas or Diesel Range Pattern | J | Analyte detected between MDL and RL |
| MDL | Method Detection Limit | ND | Not Detected at the Method Detection Limit |
| RL | Reporting Limit | S | Spike Recovery outside control limits |
| N | Parameter not NELAC certified | | |

DHL Analytical, Inc.

Date: 31-Jul-17

CLIENT: B-Environmental
Project: Coleta Creek Power
Project No: CCR Sampling (58057)
Lab Order: 1707200

Client Sample ID: PS-3
Lab ID: 1707200-08
Collection Date: 07/19/17 08:11 AM
Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|--------|----------------|-------|---------------------|----------------|----|-------------------|
| DISSOLVED METALS-ICPMS (0.45µ) | | SW6020A | | Analyst: SP | | | |
| Dissolved Lithium | 8.64 | 5.00 | 10.0 | J | µg/L | 1 | 07/25/17 04:16 PM |
| Dissolved Molybdenum | 5.39 | 2.00 | 5.00 | | µg/L | 1 | 07/25/17 04:16 PM |
| TRACE METALS: ICP-MS - WATER | | SW6020A | | Analyst: SP | | | |
| Antimony | ND | 0.800 | 2.50 | | µg/L | 1 | 07/28/17 04:34 PM |
| Arsenic | 8.87 | 2.00 | 5.00 | | µg/L | 1 | 07/28/17 04:34 PM |
| Barium | 161 | 3.00 | 10.0 | | µg/L | 1 | 07/28/17 04:34 PM |
| Beryllium | ND | 0.300 | 1.00 | | µg/L | 1 | 07/28/17 04:34 PM |
| Boron | 2090 | 100 | 300 | | µg/L | 10 | 07/31/17 11:36 AM |
| Cadmium | ND | 0.300 | 1.00 | | µg/L | 1 | 07/28/17 04:34 PM |
| Calcium | 87900 | 1000 | 3000 | | µg/L | 10 | 07/31/17 11:36 AM |
| Chromium | 5.99 | 2.00 | 5.00 | | µg/L | 1 | 07/28/17 04:34 PM |
| Cobalt | ND | 3.00 | 5.00 | | µg/L | 1 | 07/28/17 04:34 PM |
| Lead | 1.46 | 0.300 | 1.00 | | µg/L | 1 | 07/28/17 04:34 PM |
| Lithium | 7.49 | 5.00 | 10.0 | J | µg/L | 1 | 07/28/17 04:34 PM |
| Magnesium | 4090 | 100 | 300 | | µg/L | 1 | 07/28/17 04:34 PM |
| Molybdenum | 5.11 | 2.00 | 5.00 | | µg/L | 1 | 07/28/17 04:34 PM |
| Potassium | 2490 | 100 | 300 | | µg/L | 1 | 07/28/17 04:34 PM |
| Selenium | ND | 2.00 | 5.00 | | µg/L | 1 | 07/28/17 04:34 PM |
| Sodium | 73800 | 1000 | 3000 | | µg/L | 10 | 07/31/17 11:36 AM |
| Thallium | ND | 0.500 | 1.50 | | µg/L | 1 | 07/28/17 04:34 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: AH | | | |
| Mercury | ND | 0.0800 | 0.200 | | µg/L | 1 | 07/25/17 01:29 PM |
| ALKALINITY | | M2320 B | | Analyst: BTJ | | | |
| Alkalinity, Bicarbonate (As CaCO3) | 179 | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/21/17 03:15 PM |
| Alkalinity, Carbonate (As CaCO3) | ND | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/21/17 03:15 PM |
| Alkalinity, Hydroxide (As CaCO3) | ND | 10.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/21/17 03:15 PM |
| Alkalinity, Total (As CaCO3) | 179 | 20.0 | 20.0 | | mg/L @ pH 4.51 | 1 | 07/21/17 03:15 PM |

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- N Parameter not NELAC certified
- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- S Spike Recovery outside control limits

CLIENT: B-Environmental
Work Order: 1707200
Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_170725A

The QC data in batch 81574 applies to the following samples: 1707200-01A, 1707200-02A, 1707200-03A, 1707200-04A, 1707200-05A, 1707200-06A, 1707200-07A, 1707200-08A

Sample ID **MB-81574** Batch ID: **81574** TestNo: **SW7470A** Units: **µg/L**
 SampType: **MBLK** Run ID: **CETAC2_HG_170725A** Analysis Date: **7/25/2017 12:17:14 PM** Prep Date: **7/24/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | ND | 0.200 | | | | | | | | |

Sample ID **LCS-81574** Batch ID: **81574** TestNo: **SW7470A** Units: **µg/L**
 SampType: **LCS** Run ID: **CETAC2_HG_170725A** Analysis Date: **7/25/2017 12:19:30 PM** Prep Date: **7/24/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 2.03 | 0.200 | 2.000 | 0 | 102 | 85 | 115 | | | |

Sample ID **LCSD-81574** Batch ID: **81574** TestNo: **SW7470A** Units: **µg/L**
 SampType: **LCSD** Run ID: **CETAC2_HG_170725A** Analysis Date: **7/25/2017 12:21:46 PM** Prep Date: **7/24/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 2.03 | 0.200 | 2.000 | 0 | 102 | 85 | 115 | 0 | 15 | |

Sample ID **1707200-05A SD** Batch ID: **81574** TestNo: **SW7470A** Units: **µg/L**
 SampType: **SD** Run ID: **CETAC2_HG_170725A** Analysis Date: **7/25/2017 1:16:15 PM** Prep Date: **7/24/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 0 | 1.00 | 0 | 0 | | | | 0 | 10 | |

Sample ID **1707200-05A PDS** Batch ID: **81574** TestNo: **SW7470A** Units: **µg/L**
 SampType: **PDS** Run ID: **CETAC2_HG_170725A** Analysis Date: **7/25/2017 1:18:32 PM** Prep Date: **7/24/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 2.05 | 0.200 | 2.500 | 0 | 82.0 | 85 | 115 | | | S |

Sample ID **1707200-05A MS** Batch ID: **81574** TestNo: **SW7470A** Units: **µg/L**
 SampType: **MS** Run ID: **CETAC2_HG_170725A** Analysis Date: **7/25/2017 1:20:48 PM** Prep Date: **7/24/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 1.70 | 0.200 | 2.000 | 0 | 85.0 | 80 | 120 | | | |

Sample ID **1707200-05A MSD** Batch ID: **81574** TestNo: **SW7470A** Units: **µg/L**
 SampType: **MSD** Run ID: **CETAC2_HG_170725A** Analysis Date: **7/25/2017 1:23:05 PM** Prep Date: **7/24/2017**

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Mercury | 1.76 | 0.200 | 2.000 | 0 | 88.0 | 80 | 120 | 3.47 | 15 | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1707200
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170725B

The QC data in batch 81597 applies to the following samples: 1707200-01B, 1707200-02B, 1707200-03B, 1707200-04B, 1707200-05B, 1707200-06B, 1707200-07B, 1707200-08B

| | | | |
|---------------------------|--------------------------------|--|-----------------------------|
| Sample ID MB-81597 | Batch ID: 81597 | TestNo: SW6020A | Units: µg/L |
| SampType: MBLK | Run ID: ICP-MS4_170725B | Analysis Date: 7/25/2017 3:16:00 PM | Prep Date: 7/25/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Lithium | ND | 10.0 | | | | | | | | |
| Molybdenum | ND | 5.00 | | | | | | | | |

| | | | |
|----------------------------|--------------------------------|--|-----------------------------|
| Sample ID LCS-81597 | Batch ID: 81597 | TestNo: SW6020A | Units: µg/L |
| SampType: LCS | Run ID: ICP-MS4_170725B | Analysis Date: 7/25/2017 3:18:00 PM | Prep Date: 7/25/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Lithium | 200 | 10.0 | 200.0 | 0 | 100 | 80 | 120 | | | |
| Molybdenum | 196 | 5.00 | 200.0 | 0 | 97.9 | 80 | 120 | | | |

| | | | |
|-----------------------------|--------------------------------|--|-----------------------------|
| Sample ID LCSD-81597 | Batch ID: 81597 | TestNo: SW6020A | Units: µg/L |
| SampType: LCSD | Run ID: ICP-MS4_170725B | Analysis Date: 7/25/2017 3:20:00 PM | Prep Date: 7/25/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| Lithium | 204 | 10.0 | 200.0 | 0 | 102 | 80 | 120 | 1.74 | 15 | |
| Molybdenum | 195 | 5.00 | 200.0 | 0 | 97.3 | 80 | 120 | 0.562 | 15 | |

| | | | |
|---------------------------------|--------------------------------|--|-----------------------------|
| Sample ID 1707200-05B SD | Batch ID: 81597 | TestNo: SW6020A | Units: µg/L |
| SampType: SD | Run ID: ICP-MS4_170725B | Analysis Date: 7/25/2017 4:02:00 PM | Prep Date: 7/25/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Lithium | 0 | 50.0 | 0 | 12.78 | | | | 0 | 10 | |
| Molybdenum | 122 | 25.0 | 0 | 124.6 | | | | 2.37 | 10 | |

| | | | |
|----------------------------------|--------------------------------|--|-----------------------------|
| Sample ID 1707200-05B PDS | Batch ID: 81597 | TestNo: SW6020A | Units: µg/L |
| SampType: PDS | Run ID: ICP-MS4_170725B | Analysis Date: 7/25/2017 4:22:00 PM | Prep Date: 7/25/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Lithium | 217 | 10.0 | 200.0 | 12.78 | 102 | 80 | 120 | | | |
| Molybdenum | 318 | 5.00 | 200.0 | 124.6 | 96.9 | 80 | 120 | | | |

| | | | |
|---------------------------------|--------------------------------|--|-----------------------------|
| Sample ID 1707200-05B MS | Batch ID: 81597 | TestNo: SW6020A | Units: µg/L |
| SampType: MS | Run ID: ICP-MS4_170725B | Analysis Date: 7/25/2017 4:24:00 PM | Prep Date: 7/25/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Dissolved Lithium | 213 | 10.0 | 200.0 | 12.78 | 100 | 80 | 120 | | | |
| Dissolved Molybdenum | 320 | 5.00 | 200.0 | 124.6 | 97.7 | 80 | 120 | | | |

- | | |
|--|---|
| <p>Qualifiers:</p> <ul style="list-style-type: none"> B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | <ul style="list-style-type: none"> DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified |
|--|---|

CLIENT: B-Environmental
Work Order: 1707200
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170725B

| | | | |
|-----------------------------------|--------------------------------|--|-----------------------------|
| Sample ID: 1707200-05B MSD | Batch ID: 81597 | TestNo: SW6020A | Units: µg/L |
| SampType: MSD | Run ID: ICP-MS4_170725B | Analysis Date: 7/25/2017 4:26:00 PM | Prep Date: 7/25/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------------------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| Dissolved Lithium | 214 | 10.0 | 200.0 | 12.78 | 101 | 80 | 120 | 0.553 | 15 | |
| Dissolved Molybdenum | 325 | 5.00 | 200.0 | 124.6 | 100 | 80 | 120 | 1.59 | 15 | |

- | | | |
|--------------------|--|---|
| Qualifiers: | <ul style="list-style-type: none"> B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | <ul style="list-style-type: none"> DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified |
|--------------------|--|---|

CLIENT: B-Environmental
Work Order: 1707200
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170728B

The QC data in batch 81567 applies to the following samples: 1707200-01A, 1707200-02A, 1707200-03A, 1707200-04A, 1707200-05A, 1707200-06A, 1707200-07A, 1707200-08A

| | | | |
|---------------------------|--------------------------------|--|-----------------------------|
| Sample ID MB-81567 | Batch ID: 81567 | TestNo: SW6020A | Units: µg/L |
| SampType: MBLK | Run ID: ICP-MS4_170728B | Analysis Date: 7/28/2017 3:33:00 PM | Prep Date: 7/24/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | ND | 2.50 | | | | | | | | |
| Arsenic | ND | 5.00 | | | | | | | | |
| Barium | ND | 10.0 | | | | | | | | |
| Beryllium | ND | 1.00 | | | | | | | | |
| Boron | ND | 30.0 | | | | | | | | |
| Cadmium | ND | 1.00 | | | | | | | | |
| Calcium | ND | 300 | | | | | | | | |
| Chromium | ND | 5.00 | | | | | | | | |
| Cobalt | ND | 5.00 | | | | | | | | |
| Lead | ND | 1.00 | | | | | | | | |
| Lithium | ND | 10.0 | | | | | | | | |
| Magnesium | ND | 300 | | | | | | | | |
| Molybdenum | ND | 5.00 | | | | | | | | |
| Potassium | ND | 300 | | | | | | | | |
| Selenium | ND | 5.00 | | | | | | | | |
| Thallium | ND | 1.50 | | | | | | | | |

| | | | |
|----------------------------|--------------------------------|--|-----------------------------|
| Sample ID LCS-81567 | Batch ID: 81567 | TestNo: SW6020A | Units: µg/L |
| SampType: LCS | Run ID: ICP-MS4_170728B | Analysis Date: 7/28/2017 3:35:00 PM | Prep Date: 7/24/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 196 | 2.50 | 200.0 | 0 | 97.9 | 80 | 120 | | | |
| Arsenic | 191 | 5.00 | 200.0 | 0 | 95.6 | 80 | 120 | | | |
| Barium | 193 | 10.0 | 200.0 | 0 | 96.3 | 80 | 120 | | | |
| Beryllium | 191 | 1.00 | 200.0 | 0 | 95.5 | 80 | 120 | | | |
| Boron | 197 | 30.0 | 200.0 | 0 | 98.5 | 80 | 120 | | | |
| Cadmium | 196 | 1.00 | 200.0 | 0 | 98.2 | 80 | 120 | | | |
| Calcium | 4920 | 300 | 5000 | 0 | 98.4 | 80 | 120 | | | |
| Chromium | 197 | 5.00 | 200.0 | 0 | 98.4 | 80 | 120 | | | |
| Cobalt | 194 | 5.00 | 200.0 | 0 | 96.9 | 80 | 120 | | | |
| Lead | 192 | 1.00 | 200.0 | 0 | 96.2 | 80 | 120 | | | |
| Lithium | 197 | 10.0 | 200.0 | 0 | 98.3 | 80 | 120 | | | |
| Magnesium | 5000 | 300 | 5000 | 0 | 99.9 | 80 | 120 | | | |
| Molybdenum | 190 | 5.00 | 200.0 | 0 | 94.9 | 80 | 120 | | | |
| Potassium | 5020 | 300 | 5000 | 0 | 100 | 80 | 120 | | | |
| Selenium | 199 | 5.00 | 200.0 | 0 | 99.6 | 80 | 120 | | | |
| Thallium | 197 | 1.50 | 200.0 | 0 | 98.7 | 80 | 120 | | | |

| | |
|--|---|
| Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified |
|--|---|

CLIENT: B-Environmental
 Work Order: 1707200
 Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170728B

| | | | | | | | |
|-----------|------------|-----------|-----------------|----------------|----------------------|------------|-----------|
| Sample ID | LCSD-81567 | Batch ID: | 81567 | TestNo: | SW6020A | Units: | µg/L |
| SampType: | LCSD | Run ID: | ICP-MS4_170728B | Analysis Date: | 7/28/2017 3:37:00 PM | Prep Date: | 7/24/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | 194 | 2.50 | 200.0 | 0 | 96.8 | 80 | 120 | 1.12 | 15 | |
| Arsenic | 194 | 5.00 | 200.0 | 0 | 97.1 | 80 | 120 | 1.57 | 15 | |
| Barium | 193 | 10.0 | 200.0 | 0 | 96.6 | 80 | 120 | 0.308 | 15 | |
| Beryllium | 199 | 1.00 | 200.0 | 0 | 99.5 | 80 | 120 | 4.10 | 15 | |
| Boron | 201 | 30.0 | 200.0 | 0 | 100 | 80 | 120 | 1.84 | 15 | |
| Cadmium | 196 | 1.00 | 200.0 | 0 | 97.8 | 80 | 120 | 0.413 | 15 | |
| Calcium | 4950 | 300 | 5000 | 0 | 99.0 | 80 | 120 | 0.546 | 15 | |
| Chromium | 200 | 5.00 | 200.0 | 0 | 99.8 | 80 | 120 | 1.42 | 15 | |
| Cobalt | 196 | 5.00 | 200.0 | 0 | 98.1 | 80 | 120 | 1.29 | 15 | |
| Lead | 192 | 1.00 | 200.0 | 0 | 96.2 | 80 | 120 | 0.004 | 15 | |
| Lithium | 199 | 10.0 | 200.0 | 0 | 99.3 | 80 | 120 | 1.04 | 15 | |
| Magnesium | 5030 | 300 | 5000 | 0 | 101 | 80 | 120 | 0.774 | 15 | |
| Molybdenum | 189 | 5.00 | 200.0 | 0 | 94.7 | 80 | 120 | 0.278 | 15 | |
| Potassium | 5050 | 300 | 5000 | 0 | 101 | 80 | 120 | 0.544 | 15 | |
| Selenium | 205 | 5.00 | 200.0 | 0 | 102 | 80 | 120 | 2.61 | 15 | |
| Thallium | 198 | 1.50 | 200.0 | 0 | 98.8 | 80 | 120 | 0.052 | 15 | |

| | | | | | | | |
|-----------|----------------|-----------|-----------------|----------------|----------------------|------------|-----------|
| Sample ID | 1707200-05A SD | Batch ID: | 81567 | TestNo: | SW6020A | Units: | µg/L |
| SampType: | SD | Run ID: | ICP-MS4_170728B | Analysis Date: | 7/28/2017 4:22:00 PM | Prep Date: | 7/24/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | 0 | 12.5 | 0 | 0 | | | | 0 | 10 | |
| Arsenic | 14.8 | 25.0 | 0 | 14.65 | | | | 1.13 | 10 | |
| Barium | 63.6 | 50.0 | 0 | 63.29 | | | | 0.445 | 10 | |
| Beryllium | 0 | 5.00 | 0 | 0 | | | | 0 | 10 | |
| Cadmium | 0 | 5.00 | 0 | 0 | | | | 0 | 10 | |
| Chromium | 0 | 25.0 | 0 | 9.628 | | | | 0 | 10 | |
| Cobalt | 0 | 25.0 | 0 | 0 | | | | 0 | 10 | |
| Lead | 0 | 5.00 | 0 | 0.6840 | | | | 0 | 10 | |
| Lithium | 0 | 50.0 | 0 | 12.70 | | | | 0 | 10 | |
| Magnesium | 9170 | 1500 | 0 | 9008 | | | | 1.76 | 10 | |
| Molybdenum | 120 | 25.0 | 0 | 121.1 | | | | 0.558 | 10 | |
| Potassium | 906 | 1500 | 0 | 925.8 | | | | 2.16 | 10 | |
| Selenium | 0 | 25.0 | 0 | 0 | | | | 0 | 10 | |
| Thallium | 0 | 7.50 | 0 | 0 | | | | 0 | 10 | |

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|
| Sample ID | 1707200-05A PDS | Batch ID: | 81567 | TestNo: | SW6020A | Units: | µg/L |
| SampType: | PDS | Run ID: | ICP-MS4_170728B | Analysis Date: | 7/28/2017 4:40:00 PM | Prep Date: | 7/24/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 194 | 2.50 | 200.0 | 0 | 97.0 | 80 | 120 | | | |

Qualifiers:

| | | | |
|----|---|-----|---------------------------------------|
| B | Analyte detected in the associated Method Blank | DF | Dilution Factor |
| J | Analyte detected between MDL and RL | MDL | Method Detection Limit |
| ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| RL | Reporting Limit | S | Spike Recovery outside control limits |
| J | Analyte detected between SDL and RL | N | Parameter not NELAC certified |

CLIENT: B-Environmental
Work Order: 1707200
Project: Coieto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170728B

| | | | |
|-----------------------------------|--------------------------------|--|-----------------------------|
| Sample ID: 1707200-05A PDS | Batch ID: 81567 | TestNo: SW6020A | Units: µg/L |
| SampType: PDS | Run ID: ICP-MS4_170728B | Analysis Date: 7/28/2017 4:40:00 PM | Prep Date: 7/24/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Arsenic | 213 | 5.00 | 200.0 | 14.65 | 99.2 | 80 | 120 | | | |
| Barium | 261 | 10.0 | 200.0 | 63.29 | 99.1 | 80 | 120 | | | |
| Beryllium | 196 | 1.00 | 200.0 | 0 | 98.2 | 80 | 120 | | | |
| Cadmium | 195 | 1.00 | 200.0 | 0 | 97.6 | 80 | 120 | | | |
| Chromium | 213 | 5.00 | 200.0 | 9.628 | 102 | 80 | 120 | | | |
| Cobalt | 202 | 5.00 | 200.0 | 0 | 101 | 80 | 120 | | | |
| Lead | 198 | 1.00 | 200.0 | 0.6840 | 98.5 | 80 | 120 | | | |
| Lithium | 198 | 10.0 | 200.0 | 12.70 | 92.8 | 80 | 120 | | | |
| Magnesium | 13100 | 300 | 5000 | 9008 | 82.6 | 80 | 120 | | | |
| Molybdenum | 308 | 5.00 | 200.0 | 121.1 | 93.5 | 80 | 120 | | | |
| Potassium | 5710 | 300 | 5000 | 925.8 | 95.6 | 80 | 120 | | | |
| Selenium | 202 | 5.00 | 200.0 | 0 | 101 | 80 | 120 | | | |
| Thallium | 202 | 1.50 | 200.0 | 0 | 101 | 80 | 120 | | | |

| | | | |
|----------------------------------|--------------------------------|--|-----------------------------|
| Sample ID: 1707200-05A MS | Batch ID: 81567 | TestNo: SW6020A | Units: µg/L |
| SampType: MS | Run ID: ICP-MS4_170728B | Analysis Date: 7/28/2017 4:42:00 PM | Prep Date: 7/24/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 192 | 2.50 | 200.0 | 0 | 95.9 | 80 | 120 | | | |
| Arsenic | 214 | 5.00 | 200.0 | 14.65 | 99.7 | 80 | 120 | | | |
| Barium | 257 | 10.0 | 200.0 | 63.29 | 96.8 | 80 | 120 | | | |
| Beryllium | 182 | 1.00 | 200.0 | 0 | 91.0 | 80 | 120 | | | |
| Cadmium | 191 | 1.00 | 200.0 | 0 | 95.4 | 80 | 120 | | | |
| Chromium | 204 | 5.00 | 200.0 | 9.628 | 97.1 | 80 | 120 | | | |
| Cobalt | 197 | 5.00 | 200.0 | 0 | 98.6 | 80 | 120 | | | |
| Lead | 196 | 1.00 | 200.0 | 0.6840 | 97.6 | 80 | 120 | | | |
| Lithium | 197 | 10.0 | 200.0 | 12.70 | 92.1 | 80 | 120 | | | |
| Magnesium | 13900 | 300 | 5000 | 9008 | 97.6 | 80 | 120 | | | |
| Molybdenum | 315 | 5.00 | 200.0 | 121.1 | 97.2 | 80 | 120 | | | |
| Potassium | 5960 | 300 | 5000 | 925.8 | 101 | 80 | 120 | | | |
| Selenium | 205 | 5.00 | 200.0 | 0 | 102 | 80 | 120 | | | |
| Thallium | 201 | 1.50 | 200.0 | 0 | 101 | 80 | 120 | | | |

| | | | |
|-----------------------------------|--------------------------------|--|-----------------------------|
| Sample ID: 1707200-05A MSD | Batch ID: 81567 | TestNo: SW6020A | Units: µg/L |
| SampType: MSD | Run ID: ICP-MS4_170728B | Analysis Date: 7/28/2017 4:44:00 PM | Prep Date: 7/24/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|-----------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | 193 | 2.50 | 200.0 | 0 | 96.7 | 80 | 120 | 0.829 | 15 | |
| Arsenic | 214 | 5.00 | 200.0 | 14.65 | 99.7 | 80 | 120 | 0.021 | 15 | |
| Barium | 261 | 10.0 | 200.0 | 63.29 | 99.1 | 80 | 120 | 1.78 | 15 | |
| Beryllium | 186 | 1.00 | 200.0 | 0 | 93.2 | 80 | 120 | 2.37 | 15 | |

| | |
|--|---|
| Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified |
|--|---|

CLIENT: B-Environmental
Work Order: 1707200
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170728B

| | | | |
|-----------------------------------|--------------------------------|--|-----------------------------|
| Sample ID: 1707200-05A MSD | Batch ID: 81567 | TestNo: SW6020A | Units: µg/L |
| SampType: MSD | Run ID: ICP-MS4_170728B | Analysis Date: 7/28/2017 4:44:00 PM | Prep Date: 7/24/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| Cadmium | 191 | 1.00 | 200.0 | 0 | 95.5 | 80 | 120 | 0.109 | 15 | |
| Chromium | 203 | 5.00 | 200.0 | 9.628 | 96.5 | 80 | 120 | 0.577 | 15 | |
| Cobalt | 197 | 5.00 | 200.0 | 0 | 98.6 | 80 | 120 | 0.053 | 15 | |
| Lead | 196 | 1.00 | 200.0 | 0.6840 | 97.8 | 80 | 120 | 0.184 | 15 | |
| Lithium | 199 | 10.0 | 200.0 | 12.70 | 93.0 | 80 | 120 | 0.894 | 15 | |
| Magnesium | 13900 | 300 | 5000 | 9008 | 98.8 | 80 | 120 | 0.448 | 15 | |
| Molybdenum | 317 | 5.00 | 200.0 | 121.1 | 97.9 | 80 | 120 | 0.473 | 15 | |
| Potassium | 5970 | 300 | 5000 | 925.8 | 101 | 80 | 120 | 0.269 | 15 | |
| Selenium | 204 | 5.00 | 200.0 | 0 | 102 | 80 | 120 | 0.346 | 15 | |
| Thallium | 200 | 1.50 | 200.0 | 0 | 100 | 80 | 120 | 0.701 | 15 | |

| | |
|--|---|
| Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified |
|--|---|

CLIENT: B-Environmental

Work Order: 1707200

Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170731A

The QC data in batch 81567 applies to the following samples: 1707200-01A, 1707200-02A, 1707200-03A, 1707200-04A, 1707200-05A, 1707200-06A, 1707200-07A, 1707200-08A

| | | | | | | | |
|-----------|----------|-----------|-----------------|----------------|-----------------------|------------|-----------|
| Sample ID | MB-81567 | Batch ID: | 81567 | TestNo: | SW6020A | Units: | µg/L |
| SampType: | MBLK | Run ID: | ICP-MS4_170731A | Analysis Date: | 7/31/2017 11:12:00 AM | Prep Date: | 7/24/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-----|-----------|---------|------|----------|-----------|------|----------|------|
| Sodium | ND | 300 | | | | | | | | |

| | | | | | | | |
|-----------|-----------|-----------|-----------------|----------------|-----------------------|------------|-----------|
| Sample ID | LCS-81567 | Batch ID: | 81567 | TestNo: | SW6020A | Units: | µg/L |
| SampType: | LCS | Run ID: | ICP-MS4_170731A | Analysis Date: | 7/31/2017 11:14:00 AM | Prep Date: | 7/24/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-----|-----------|---------|------|----------|-----------|------|----------|------|
| Sodium | 5310 | 300 | 5000 | 0 | 106 | 80 | 120 | | | |

| | | | | | | | |
|-----------|------------|-----------|-----------------|----------------|-----------------------|------------|-----------|
| Sample ID | LCSD-81567 | Batch ID: | 81567 | TestNo: | SW6020A | Units: | µg/L |
| SampType: | LCSD | Run ID: | ICP-MS4_170731A | Analysis Date: | 7/31/2017 11:16:00 AM | Prep Date: | 7/24/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-----|-----------|---------|------|----------|-----------|------|----------|------|
| Sodium | 5370 | 300 | 5000 | 0 | 107 | 80 | 120 | 1.25 | 15 | |

| | | | | | | | |
|-----------|----------------|-----------|-----------------|----------------|-----------------------|------------|-----------|
| Sample ID | 1707200-05A SD | Batch ID: | 81567 | TestNo: | SW6020A | Units: | µg/L |
| SampType: | SD | Run ID: | ICP-MS4_170731A | Analysis Date: | 7/31/2017 11:22:00 AM | Prep Date: | 7/24/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|-------|----------|------|
| Boron | 9460 | 3000 | 0 | 8738 | | | | 7.98 | 10 | |
| Calcium | 56000 | 30000 | 0 | 56570 | | | | 0.943 | 10 | |
| Sodium | 132000 | 30000 | 0 | 135700 | | | | 2.45 | 10 | |

| | | | | | | | |
|-----------|-----------------|-----------|-----------------|----------------|-----------------------|------------|-----------|
| Sample ID | 1707200-05A PDS | Batch ID: | 81567 | TestNo: | SW6020A | Units: | µg/L |
| SampType: | PDS | Run ID: | ICP-MS4_170731A | Analysis Date: | 7/31/2017 11:42:00 AM | Prep Date: | 7/24/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Boron | 13300 | 600 | 4000 | 8738 | 115 | 80 | 120 | | | |
| Calcium | 159000 | 6000 | 100000 | 56570 | 102 | 80 | 120 | | | |
| Sodium | 243000 | 6000 | 100000 | 135700 | 108 | 80 | 120 | | | |

| | | | | | | | |
|-----------|----------------|-----------|-----------------|----------------|-----------------------|------------|-----------|
| Sample ID | 1707200-05A MS | Batch ID: | 81567 | TestNo: | SW6020A | Units: | µg/L |
| SampType: | MS | Run ID: | ICP-MS4_170731A | Analysis Date: | 7/31/2017 11:44:00 AM | Prep Date: | 7/24/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Boron | 9330 | 600 | 200.0 | 8738 | 294 | 80 | 120 | | | S |
| Calcium | 62800 | 6000 | 5000 | 56570 | 125 | 80 | 120 | | | S |
| Sodium | 142000 | 6000 | 5000 | 135700 | 132 | 80 | 120 | | | S |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL

DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: B-Environmental
Work Order: 1707200
Project: Coletto Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_170731A

| Sample ID | 1707200-05A MSD | Batch ID: | 81567 | TestNo: | SW6020A | Units: | µg/L | | | |
|-----------|-----------------|-----------|-----------------|----------------|-----------------------|------------|-----------|-------|----------|------|
| SampType: | MSD | Run ID: | ICP-MS4_170731A | Analysis Date: | 7/31/2017 11:46:00 AM | Prep Date: | 7/24/2017 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 9320 | 600 | 200.0 | 8738 | 293 | 80 | 120 | 0.037 | 15 | S |
| Calcium | 62300 | 6000 | 5000 | 56570 | 115 | 80 | 120 | 0.774 | 15 | |
| Sodium | 140000 | 6000 | 5000 | 135700 | 95.2 | 80 | 120 | 1.30 | 15 | |

| | | |
|--------------------|---|---|
| Qualifiers: | B Analyte detected in the associated Method Blank | DF Dilution Factor |
| | J Analyte detected between MDL and RL | MDL Method Detection Limit |
| | ND Not Detected at the Method Detection Limit | R RPD outside accepted control limits |
| | RL Reporting Limit | S Spike Recovery outside control limits |
| | J Analyte detected between SDL and RL | N Parameter not NELAC certified |

CLIENT: B-Environmental

Work Order: 1707200

Project: Coleta Creek Power

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_170721B

The QC data in batch 81534 applies to the following samples: 1707200-01C, 1707200-02C, 1707200-03C, 1707200-04C, 1707200-05C, 1707200-06C, 1707200-07C, 1707200-08C

| | | | | | | | |
|-----------|-----------------|-----------|-------------------------|----------------|-----------------------------|------------|-----------------------|
| Sample ID | MB-81534 | Batch ID: | 81534 | TestNo: | M2320 B | Units: | mg/L @ pH 4.28 |
| SampType: | MBLK | Run ID: | TITRATOR_170721B | Analysis Date: | 7/21/2017 9:33:00 AM | Prep Date: | 7/21/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | ND | 20.0 | | | | | | | | |
| Alkalinity, Carbonate (As CaCO3) | ND | 20.0 | | | | | | | | |
| Alkalinity, Hydroxide (As CaCO3) | ND | 20.0 | | | | | | | | |
| Alkalinity, Total (As CaCO3) | ND | 20.0 | | | | | | | | |

| | | | | | | | |
|-----------|------------------|-----------|-------------------------|----------------|-----------------------------|------------|----------------------|
| Sample ID | LCS-81534 | Batch ID: | 81534 | TestNo: | M2320 B | Units: | mg/L @ pH 4.2 |
| SampType: | LCS | Run ID: | TITRATOR_170721B | Analysis Date: | 7/21/2017 9:37:00 AM | Prep Date: | 7/21/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Total (As CaCO3) | 50.8 | 20.0 | 50.00 | 0 | 102 | 74 | 129 | | | |

| | | | | | | | |
|-----------|------------------------|-----------|-------------------------|----------------|------------------------------|------------|-----------------------|
| Sample ID | 1707179-01C-DUP | Batch ID: | 81534 | TestNo: | M2320 B | Units: | mg/L @ pH 4.09 |
| SampType: | DUP | Run ID: | TITRATOR_170721B | Analysis Date: | 7/21/2017 10:29:00 AM | Prep Date: | 7/21/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | 0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | 0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | 0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | 0 | 20.0 | 0 | 0 | | | | 0 | 20 | |

| | | | | | | | |
|-----------|------------------------|-----------|-------------------------|----------------|------------------------------|------------|-----------------------|
| Sample ID | 1707179-08C-DUP | Batch ID: | 81534 | TestNo: | M2320 B | Units: | mg/L @ pH 4.52 |
| SampType: | DUP | Run ID: | TITRATOR_170721B | Analysis Date: | 7/21/2017 11:54:00 AM | Prep Date: | 7/21/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | 324 | 20.0 | 0 | 322.8 | | | | 0.340 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | 0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | 0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | 324 | 20.0 | 0 | 322.8 | | | | 0.340 | 20 | |

| | | | | | | | |
|-----------|------------------------|-----------|-------------------------|----------------|-----------------------------|------------|-----------------------|
| Sample ID | 1707200-05C-DUP | Batch ID: | 81534 | TestNo: | M2320 B | Units: | mg/L @ pH 4.53 |
| SampType: | DUP | Run ID: | TITRATOR_170721B | Analysis Date: | 7/21/2017 2:51:00 PM | Prep Date: | 7/21/2017 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Alkalinity, Bicarbonate (As CaCO3) | 229 | 20.0 | 0 | 223.3 | | | | 2.35 | 20 | |
| Alkalinity, Carbonate (As CaCO3) | 0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Hydroxide (As CaCO3) | 0 | 20.0 | 0 | 0 | | | | 0 | 20 | |
| Alkalinity, Total (As CaCO3) | 229 | 20.0 | 0 | 223.3 | | | | 2.35 | 20 | |

- | | | | | |
|--------------------|----|---|-----|---------------------------------------|
| Qualifiers: | B | Analyte detected in the associated Method Blank | DF | Dilution Factor |
| | J | Analyte detected between MDL and RL | MDL | Method Detection Limit |
| | ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| | RL | Reporting Limit | S | Spike Recovery outside control limits |
| | J | Analyte detected between SDL and RL | N | Parameter not NELAC certified |



ARS International, LLC

Laboratory Analysis Report

ARS1-17-02195

Prepared for:

B-Environmental

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A handwritten signature in black ink, appearing to read 'Michael Cook', written over a horizontal line.

Project Manager Review

A handwritten signature in black ink, appearing to read 'R. J. Smith', written over a horizontal line.

Management Review

Notes: ARS International, LLC assumes no liability for the use or the interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

Contact Person: Questions regarding this analytical report should be addressed to:

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**Phone: 225.381.2991
Fax: 225.381.2996**





2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-02195

Client Sample ID: S172010707 (Batch 58057)

Sample Collection Date: 07/19/17

Sample Matrix: Aqueous

Percent Solids: N/A

Request or PO Number: N/A

ARS Sample ID: ARS1-17-02195-001

Date Received: 07/21/17

Report Date: 08/25/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.145 | 0.113 | 0.152 | 0.058 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 08/18/17 8:07 | CTRAMEL | 101% |
| Ra-228 | 0.635 | 0.729 | 1.205 | 0.562 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 08/11/17 12:00 | CTRAMEL | 95% |

Project Manager Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

LELAP Certificate# 01949



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 1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-02195

Request or PO Number: N/A

Client Sample ID: S172010710 (Batch 58057)

ARS Sample ID: ARS1-17-02195-002

Sample Collection Date: 07/19/17

Date Received: 07/21/17

Sample Matrix: Aqueous

Report Date: 08/25/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.191 | 0.146 | 0.208 | 0.085 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 08/18/17 8:07 | CTRAMEL | 88% |
| Ra-228 | -0.137 | 0.766 | 1.405 | 0.653 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 08/11/17 12:00 | CTRAMEL | 76% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-02195

Request or PO Number: N/A

Client Sample ID: S17201071A (Batch 58057)

ARS Sample ID: ARS1-17-02195-003

Sample Collection Date: 07/19/17

Date Received: 07/21/17

Sample Matrix: Aqueous

Report Date: 08/25/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.140 | 0.149 | 0.238 | 0.100 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 08/18/17 8:07 | CTRAMEL | 102% |
| Ra-228 | 0.444 | 0.701 | 1.189 | 0.554 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 08/11/17 12:00 | CTRAMEL | 96% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-02195

Request or PO Number: N/A

Client Sample ID: S172010711 (Batch 58057)

ARS Sample ID: ARS1-17-02195-004

Sample Collection Date: 07/19/17

Date Received: 07/21/17

Sample Matrix: Aqueous

Report Date: 08/25/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.304 | 0.168 | 0.204 | 0.084 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 08/18/17 8:07 | CTRAMEL | 104% |
| Ra-228 | 0.517 | 0.713 | 1.197 | 0.554 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 08/11/17 12:00 | CTRAMEL | 86% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-02195

Request or PO Number: N/A

Client Sample ID: S172010718 (Batch 58057)

ARS Sample ID: ARS1-17-02195-005

Sample Collection Date: 07/19/17

Date Received: 07/21/17

Sample Matrix: Aqueous

Report Date: 08/25/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.650 | 0.231 | 0.172 | 0.066 | NP | | pCi/L | ARS-D10/EPA 903.0/904.0 | 08/18/17 8:07 | CTRAMEL | 96% |
| Ra-228 | 1.482 | 0.813 | 1.178 | 0.545 | NP | | pCi/L | ARS-D10/EPA 903.0/904.0 | 08/11/17 12:00 | CTRAMEL | 90% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-02195

Client Sample ID: S17201071C (Batch 58057)

Sample Collection Date: 07/19/17

Sample Matrix: Aqueous

Percent Solids: N/A

Request or PO Number: N/A

ARS Sample ID: ARS1-17-02195-006

Date Received: 07/21/17

Report Date: 08/25/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.274 | 0.151 | 0.173 | 0.069 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 08/24/17 8:24 | CTRAMEL | 101% |
| Ra-228 | 0.801 | 0.647 | 1.018 | 0.470 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 08/17/17 12:05 | CTRAMEL | 95% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-02195

Client Sample ID: S172010712 (Batch 58057)

Sample Collection Date: 07/19/17

Sample Matrix: Aqueous

Percent Solids: N/A

Request or PO Number: N/A

ARS Sample ID: ARS1-17-02195-007

Date Received: 07/21/17

Report Date: 08/25/17

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.579 | 0.210 | 0.188 | 0.077 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 08/24/17 8:24 | CTRAMEL | 100% |
| Ra-228 | 0.972 | 0.744 | 1.163 | 0.540 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 08/17/17 12:05 | CTRAMEL | 91% |

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-02195

Request or PO Number: N/A

Client Sample ID: S17201071D (Batch 58057)

ARS Sample ID: ARS1-17-02195-008

Sample Collection Date: 07/19/17

Date Received: 07/21/17

Sample Matrix: Aqueous

Report Date: 08/25/17

Percent Solids: N/A

Radiochemistry

| Analysis Description | Analysis Results | CSU +/- 2 s | MDC | DLC | CRDL | Qual | Analysis Units | Method | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|-------|-------|------|------|----------------|-------------------------|--------------------|---------------------|----------------------|
| Ra-226 | 0.771 | 0.267 | 0.243 | 0.103 | NP | | pCi/L | ARS-010/EPA 903.0/904.0 | 08/24/17 8:24 | CTRAMEL | 101% |
| Ra-228 | 0.748 | 0.721 | 1.169 | 0.544 | NP | U | pCi/L | ARS-010/EPA 903.0/904.0 | 08/17/17 12:05 | CTRAMEL | 94% |

Project Manager Review

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QC Results Report

Sample Delivery Group: ARS1-17-02166

Laboratory Control Sample Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | LCS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|----------------------|
| ARS1-B17-01668 | LCS | RA-226 | 22.921 | 3.706 | 0.115 | 26.901 | N/A | pCi/L | ARS-010/EPA 903 | 8/11/17 10:22 | CT | 85 | 75%-125% |
| ARS1-B17-01668 | LCS | RA-228 | 38.943 | 6.487 | 1.152 | 39.784 | N/A | pCi/L | ARS-010/EPA 904 | 8/11/17 10:22 | CT | 98 | 75%-125% |

Blank Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|
| ARS1-B17-01668 | MBL | RA-226 | 0.077 | 0.068 | 0.101 | NA | U | pCi/L | ARS-010/EPA 903 | 8/11/17 10:22 | CT |
| ARS1-B17-01668 | MBL | RA-228 | 0.185 | 0.389 | 0.670 | NA | U | pCi/L | ARS-010/EPA 904 | 8/11/17 10:22 | CT |

RER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | RER | RER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01668 | LCSD | RA-226 | 22.921 | 3.706 | 24.211 | 3.916 | N/A | pCi/L | ARS-010/EPA 903 | 8/11/17 10:22 | CT | 0.17 | < 1 |
| ARS1-B17-01668 | LCSD | RA-228 | 38.943 | 6.487 | 39.168 | 6.506 | N/A | pCi/L | ARS-010/EPA 904 | 8/11/17 10:22 | CT | 0.02 | < 1 |

DER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | DER | DER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01668 | LCSD | RA-226 | 22.921 | 3.706 | 24.211 | 3.916 | N/A | pCi/L | ARS-010/EPA 903 | 8/11/17 10:22 | CT | 0.24 | < 3 |
| ARS1-B17-01668 | LCSD | RA-228 | 38.943 | 6.487 | 39.168 | 6.506 | N/A | pCi/L | ARS-010/EPA 904 | 8/11/17 10:22 | CT | 0.02 | < 3 |

Matrix Spike

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | MS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|---------------------|
| ARS1-B17-01668 | MS | Ra-226 | 53.446 | 8.608 | 0.170 | 55.738 | N/A | pCi/L | ARS-010/EPA 903 | 8/18/17 10:06 | CT | 96 | 60%-140% |
| ARS1-B17-01668 | MS | Ra-228 | 40.649 | 6.788 | 1.066 | 51.500 | N/A | pCi/L | ARS-010/EPA 904 | 8/11/17 14:00 | CT | 79 | 60%-140% |
| ARS1-B17-01668 | MSD | Ra-226 | 57.014 | 9.175 | 0.162 | 55.900 | N/A | pCi/L | ARS-010/EPA 903 | 8/18/17 10:06 | CT | 102 | 60%-140% |
| ARS1-B17-01668 | MSD | Ra-228 | 41.834 | 7.055 | 1.580 | 51.569 | N/A | pCi/L | ARS-010/EPA 904 | 8/11/17 14:00 | CT | 81 | 60%-140% |

Project Manager Review

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LELAP Certificate# 01949

NELAP Certificate # E87558



QC Results Report

Sample Delivery Group: ARS1-17-02195

Laboratory Control Sample Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | Percent Recovery (%) | LCS Acceptance Range |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|----------------------|----------------------|
| ARS1-B17-01711 | LCS | RA-226 | 28.100 | 4.532 | 0.104 | 27.301 | N/A | pCi/L | ARS-010/EPA 903 | 8/24/17 10:23 | CT | 103 | 75%-125% |
| ARS1-B17-01711 | LCS | RA-228 | 32.662 | 5.478 | 1.115 | 39.784 | N/A | pCi/L | ARS-010/EPA 904 | 8/24/17 10:23 | CT | 82 | 75%-125% |

Blank Evaluation

| Analysis Batch | QC Type | Analyte | Analysis Results | CSU 1 (2s) | MDC | Expected Value | Qual | Report Units | Analysis Test Method | Analysis Date/Time | Analysis Technician |
|----------------|---------|---------|------------------|------------|-------|----------------|------|--------------|----------------------|--------------------|---------------------|
| ARS1-B17-01711 | MBL | RA-226 | 0.042 | 0.074 | 0.129 | NA | U | pCi/L | ARS-010/EPA 903 | 8/24/17 10:23 | CT |
| ARS1-B17-01711 | MBL | RA-228 | 0.211 | 0.366 | 0.624 | NA | U | pCi/L | ARS-010/EPA 904 | 8/24/17 10:23 | CT |

RER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | RER | RER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01711 | LCSD | RA-226 | 28.100 | 4.532 | 28.639 | 4.619 | N/A | pCi/L | ARS-010/EPA 903 | 8/24/17 10:23 | CT | 0.06 | < 1 |
| ARS1-B17-01711 | LCSD | RA-228 | 32.662 | 5.478 | 31.169 | 5.226 | N/A | pCi/L | ARS-010/EPA 904 | 8/24/17 10:23 | CT | 0.14 | < 1 |

DER Duplicate Evaluation

| Analysis Batch | QC Type | Analysis Description | Result 1 | CSU 1 (2s) | Result 2 | CSU 2 (2s) | Qual | Analysis Units | Analysis Test Method | Analysis Date/Time | Analysis Technician | DER | DER Acceptance Range |
|----------------|---------|----------------------|----------|------------|----------|------------|------|----------------|----------------------|--------------------|---------------------|------|----------------------|
| ARS1-B17-01711 | LCSD | RA-226 | 28.100 | 4.532 | 28.639 | 4.619 | N/A | pCi/L | ARS-010/EPA 903 | 8/24/17 10:23 | CT | 0.08 | < 3 |
| ARS1-B17-01711 | LCSD | RA-228 | 32.662 | 5.478 | 31.169 | 5.226 | N/A | pCi/L | ARS-010/EPA 904 | 8/24/17 10:23 | CT | 0.20 | < 3 |

Project Manager Review

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LELAP Certificate# 01949

NELAP Certificate # E87558

Notes (Case Narrative):

Comments:

- 1.0) All MDA/MDC values are calculated on a sample specific basis.
- 2.0) Soil and Sludge analysis are reported on a wet basis or an as received basis unless otherwise indicated.
- 3.0) Data in this report are within the limits of uncertainty specified in the reference method unless otherwise specified.
- 4.0) Modified analysis procedures are procedures that are modified to meet the certain specifications. An example may be the use of a water method to analyze a solid matrix due to the lack of an officially recognized procedure for the analysis of the solid matrix. Modified analyses are indicated by the subsequent addition of "m" to the procedure number (i.e. 900.0M).
- 5.0) Total activity is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring radioactive decay chains and other prominent radioactive nuclides. Total activity may be lower than the actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not representative of nuclides that emit solely alpha or beta particles.
- 6.0) Ra-226 is determined via secular equilibrium with its daughter, Actinium 228 (Gamma Spectroscopy only).
- 7.0) U-238 is determined via secular equilibrium with its daughter, Thorium 234 (Gamma Spectroscopy only).
- 8.0) All gamma spectroscopy was performed utilizing high purity germanium detectors (HPGe).
- 9.0) ARS makes every attempt to match sample density to calibrated density; however, in some cases, it is not practical or possible to do so and data results may be affected (Gamma Spectroscopy only).
- 10.0) Gamma spectroscopy results are calculated values based on the ORTEC® GammaVision ENV32 Analysis Engine.
- 11.0) ACLASS DOD and ISO 17025 certification applies only to the following analytes and methods: Gross Alpha and Gross Beta (EPA 900, SM7110B&C, SW846 9310); Radium 226 (EPA 903, EPA 903.1, SM 7500 Ra-B, SW846 9315); Radium 228 (EPA 904, SM 7500 Ra-B SW846 9320); Iodine-131(EPA 901.1); Uranium by ICPMS (EPA 200.8); Strontium 89/90 (EPA 905, Eichrom SRW01, HASL 300 Sr-03-RC); Tritium (EPA 906, EPA 906M); Gamma Emitters (EPA 901.1, SM7120B, HASL 300 Ga-01-R); Americium-241, Curium 242/244, Plutonium 239/240 and 241, Thorium 228/230/232, Uranium 234/233 and 238 (Eichrom ACW03 VBS); Lead 210 (HASL 300 Pb-01-RC, Eichrom OTW01); Polonium 210 (HASL 300 Po-01-RC, HASL 300 Po-02-RC); Technetium-99 (Eichrom TCW02, Eichrom TCS01M).

Method References:

- 1.0) EPA 600/4-80-032; Prescribed Procedures for the Measurements of Radioactivity in Drinking Water, August 1980.
- 2.0) Standard Methods for the Examination of Water and Wastewater (On-Line Edition)
- 3.0) EPA SW-846; Test Methods for Evaluating Solid Waste, (On-Line edition)
- 4.0) EPA 600/479-020; Methods for Chemical Analysis of Water and Waste, March 1983.
- 5.0) HASL 300; The Procedures Manual of the Environmental Measurements Laboratory, Volume I, 28th Edition February, 1997.

Definitions:

| | |
|----------|---|
| CRDL | Contract Required Detection Limit |
| CSU | Combined Standard Uncertainty |
| DLC | Decision Level Concentration (ANSI N42.23) or critical level |
| DO | Duplicate Original |
| DUP | Method Duplicate |
| LCS/LCSD | Laboratory Control Sample/Laboratory Control Sample Duplicate |
| MDA | Minimum Detectable Activity |
| MDC | (Minimum Detectable Concentration) minimum concentration of the analyte that ARS can detect utilizing the specific analysis |
| MBL | Method Blank |
| MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| N/A | Not Applicable |
| NP | Not Provided |
| NR | Not Referenced |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |

Data Qualifiers:

| | |
|----|--|
| B | The analyte is found in both the associated method blank and the sample. This flag indicates probable blank contamination. |
| D | Sample analysis accomplished through dilution. |
| J | The reported result is an estimated value above the limit of detection but outside of quantitation range (e.g., matrix interference was observed). |
| Q | One or more quality control criteria failed (e.g., LCS recovery, surrogate spike recovery, or CCV recovery). |
| U | Activity is below the MDC, MDA, MDL, or LOD |
| N | The analyte is a tentatively identified compound using mass spectrometry or any non-customer requested compounds that are tentatively identified. |
| * | LCS/LCSD or MS/MSD fails RPD criteria. |
| S | Spike |
| SC | Subcontracted out to another qualified laboratory |
| H | Holding time exceeded |

LELAP Cert# 01949

NELAP Cert# E87558

ARS-059-010
Revision: 9.1
Revision Date: 03-14-2017

B Environmental Laboratory, LLC
 1606 E Brazos Suite D Victoria, Texas 77901 Ph: (361) 572-8224

Chain Of Custody Rec

Batch # 58057

TEMP UN-C: 76 Page 1 of 2

Customer / Report Information Billing Information Check box if Billing is the same as Report Information

Name: Coletto Creek Power Address: Attention: Rick Coleman PO #

Attention: Rick Coleman Address: P. O. Box 8; Fannin, TX 77960 Project: GCR Sampling Comments:

Phone: 361-788-5145 FAX: EMAIL: richard.coleman@dmnev.com Requested Analysis Completed By Laboratory

| Sample Information | Client / Field Sample ID | Collected | | Matrix | Container | Preservative | Metals* | | | | | | Custody Seals Present | | |
|--------------------|--------------------------|-----------|------|--------|-----------|--------------|---------|---|-----|----|-----|---------------|-----------------------|-------------------------|--------------|
| | | Date | Time | | | | Cl | F | SO4 | pH | TDS | Ra226 & Ra228 | | Alk: Tot, Carb, Bi Carb | Diss Li & Mo |
| Dup 2 | | 7-19-17 | | WW | 1L | H2SO4 | X | X | X | X | X | X | X | X | S172010707 |
| MW-5 | | 1/05 | | WW | 1L | H2SO4 | X | X | X | X | X | X | X | X | S172010710 |
| MW-9 | | 10/14 | | WW | 6 500mL | H2SO4 | X | X | X | X | X | X | X | X | S17201071A |
| MW-9A | | 9/39 | | WW | 1L | H2SO4 | X | X | X | X | X | X | X | X | S172010711 |
| MW-10 | | 12/55 | | WW | 6 500mL | H2SO4 | X | X | X | X | X | X | X | X | S17201071B |
| MW-10 MS | | 12/55 | | WW | 1L | H2SO4 | X | X | X | X | X | X | X | X | |
| MW-10 MSD | | 12/55 | | WW | 6 500mL | H2SO4 | X | X | X | X | X | X | X | X | |

Required Turnaround: Routine (6-10 Business days) Expedite / Rush: 1 Business Day 2 Business Days 3 Business days 5 Business days Other

Surcharge will apply to RUSH/FAT Authorized By: Container Type: P=Plastic, G=Glass, V=Voal, O=Other Carrier ID:

Relinquished By: Date: 7-19-17 Time: 1630 Received By: Date: 7-19-17 Time: 1436

Relinquished By: Date: Received By: Date: Form #1000-0-2 REV 1.2 Email: kbenviro@suddenlinkmail.com www.benvironmental.net

B Environmental Laboratory, LLC
 1606 E Brazos Suite D, Victoria, Texas 77901 ph: (361) 572-8224

Chain Of Custody Rec

Batch # 58057

TEMP UN-C: 26 Page 2 of 2

Customer / Report Information
 Name: Coletto Creek Power
 Address: P.O. Box 8; Fannin, TX 77960

Billing Information
 Address:
 Project: CCR Sampling
 Comments:

Check box if Billing is the same as Report Information
 PO #

Phone: 361-788-5145
 EMAIL: richard.coleman@denviro.com
 Requested Analysis

Sample Information

Collected By:

| Client / Field Sample ID | Collected | |
|--------------------------|-----------|------|
| | Date | Time |

Matrix
 DW - Drinking H2O
 S - Solid
 WW - Waste H2O
 SL - Sludge
 L - Liquid
 W - Water

Container
 TYPE
 NUMBER
 Size
 Preservative

Metals*
 Cl, F, SO4
 pH
 TDS
 Ra226 & Ra228
 Alk: Tot, Carb, Bi Carb
 Diss Li & Mo

Custody Seals Present
 Yes No
Intact
 Yes No
LAB Sample Number

| Client / Field Sample ID | Collected | | Matrix | Container | TYPE | NUMBER | Size | Preservative | Analysis | | | | | | | | | | | | LAB Sample Number |
|--------------------------|-----------|------|--------|-----------|------|--------|-------|---|----------|------------|----|-----|---------------|-------------------------|--------------|-----------------------|------------|--|--|--|-------------------|
| | Date | Time | | | | | | | Metals* | Cl, F, SO4 | pH | TDS | Ra226 & Ra228 | Alk: Tot, Carb, Bi Carb | Diss Li & Mo | Custody Seals Present | Intact | | | | |
| MW-10A | 7-19-17 | 1338 | G | WW | P | 6 | 500mL | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | X | X | S17201071C | | | | |
| MW-11 | ↓ | 843 | G | WW | P | 6 | 500mL | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | X | X | S172010712 | | | | |
| PS-3 | ↓ | 811 | G | WW | P | 6 | 500mL | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | X | X | S17201071D | | | | |
| | | | G | WW | P | 6 | 500mL | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | X | X | | | | | |
| | | | G | WW | P | 6 | 500mL | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | X | X | | | | | |
| | | | G | WW | P | 6 | 500mL | <input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL <input type="checkbox"/> Na2SO3 | X | X | X | X | X | X | X | X | | | | | |

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Appendix C

Statistical Approach to Establishing Baseline Concentrations

Appendix C. STATISTICAL APPROACH TO ESTABLISHING BASELINE CONCENTRATIONS

This appendix summarizes the statistical approach used for establishing baseline groundwater quality concentrations for the Coletto Creek Primary Ash Pond (PAP) Coal Combustion Residual (CCR) groundwater monitoring system. The following statistical approach was selected to demonstrate groundwater compliance under the CCR Rule:

- Use of interwell data evaluations, which compare new sample data to data from upgradient or background monitoring wells.
- Use of upper prediction limits (UPLs) to develop site-specific background concentrations for all Appendix III and Appendix IV constituents. This approach is a common statistical method used to evaluate groundwater compliance for Subtitle D landfill facilities and is one of the approved options for groundwater quality data statistical evaluations under the CCR Rule.
- After every detection monitoring event, Appendix III constituent concentrations from each compliance well are compared to background UPLs to ascertain if a statistically significant increase above background exists. Background UPLs are based on a 1-of-2 resampling approach, meaning that if one or more constituent concentrations in a compliance well are above their respective baseline concentration, a resample can be collected to validate or invalidate the baseline concentration exceedance.
- If assessment monitoring is required, the 95% lower confidence limit of the mean (LCL) is calculated after each assessment monitoring event for each Appendix IV constituent and compliance well. The data set used to calculate LCLs is based on current and historical constituent concentrations for a compliance well. A statistically significant increase over the Groundwater Protection Standard (GWPS) has occurred at a CCR unit when the LCL for at least one assessment monitoring constituent at a well is greater than the appropriate GWPS. Development of the GWPSs is discussed in Section C.4.

This approach follows the Statistical Analysis Plan (SAP) (Golder, 2022) and conforms to the 40 CFR 257 rules as well as EPA's *Unified Guidance: Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities* (EPA, 2009) (hereafter, referred to as the Unified Guidance) and the American Society for Testing and Materials (ASTM) standard D6312-17, *Developing Appropriate Statistical Approaches for Groundwater Detection Monitoring Programs at waste Disposal Facilities* (ASTM, 2017). The statistical methodology is designed to detect a release from the facility at the earliest indication so that it is protective of human health and the environment.

Section 257.94(b) of the CCR Rule requires that a minimum of eight independent groundwater samples from each background and downgradient well be collected and analyzed for the constituents listed in Appendix III and IV to Part 257 no later than October 17, 2017. To satisfy this requirement, eight groundwater monitoring events were performed from March 2017 through July 2017 using the three upgradient/background wells (BV-5, BV-21, and MW-8) and the six downgradient compliance wells (MW-4, MW-5, MW-6, MW-9, MW-10, and MW-11) in the Coletto Creek CCR monitoring well system.

Prior to performing background data evaluations, data from the upgradient wells were prepared for analysis. Methods for handling field duplicate samples and handling non-detects were implemented during this data preparation phase, as presented in Section C.1. Statistical assumptions were evaluated to assess the independence of background data prior to calculating the UPLs, as discussed in Section C.2. In order to calculate UPLs, the distribution of each data set was defined and a site-wide Type I experiment wise error rate was established. UPLs based on a 1-of-2 resampling approach were calculated for detected constituents to establish baseline values for wells hydraulically upgradient of the PAP, as further described in Section C.3. Details about the approach used to evaluate detection and assessment monitoring data after baseline concentrations were established are provided in Section C.4.

C.1 Data Preparation

Analytical data from wells in the groundwater monitoring network at a CCR unit during each sampling event are first reviewed for usability after final data packages are received from the laboratory. The analytical data are then prepared for statistical analysis. The raw sample data can be found in Tables C-1 and C-2 for the Appendix III and Appendix IV constituents, respectively.

Methods for handling duplicate and non-detect data are implemented during this data preparation phase to comply with the performance standards outlined in 40 CFR 257.93. Field duplicates and data rejected after data validation are removed from the data set. Only the primary samples are retained for the statistical evaluation.

In accordance with EPA guidance, non-detects were handled by using one of two approaches depending on the percentage of detected concentrations:

- If a constituent was detected in at least 85% of samples, a simple substitution method was used in which half of the sample detection limit was substituted as a proxy concentration (EPA, 2009; EPA, 2000).
- If a constituent was detected in at least 50% of the samples but no more than 85% of the samples, the Robust Regression Order Statistics (RROS) method was used to estimate summary statistics such as the mean and standard deviation (EPA, 2009).

If the constituent was detected in fewer than 50% of the samples, non-detects were handled by using nonparametric statistical approaches to evaluate the data and to prepare summary statistics (EPA, 2009; EPA, 2000). J-flagged data, estimated concentrations between the sample detection limit and the reporting limit, were defined as detected concentrations.

C.2 Statistical Assumptions

In accordance with Section 257.94(g)(6), the background groundwater sample data used in calculating the UPLs were evaluated for seasonal and spatial variability as well as temporal correlation in the data to assess the independence and usability of the background data to calculate UPLs. Statistical independence was checked by testing for:

- Spatial stationarity,
- Temporal stationarity,
- Lack of autocorrelation, and
- Lack of statistical data outliers.

The statistical software R (The R Foundation, 2023) and the EnvStats package (Envstats, 2023) were used to perform the statistical tests to check the validity of independent samples.

To identify the statistical significance across the wells and/or detected Appendix III or Appendix IV constituents, a Type I experiment wise error rate, α , of 0.05 was used and a single test error rate was defined for each statistical test. The single test error rate, was based on the number of constituents detected (d^*), and in some cases the number of constituents detected at least 50% of the time, for a given constituent list. For instance, the single test error rate associated with a statistical test for one of the seven detected Appendix III constituents ($d^*=7$) equals $1 - (1 - \alpha)^{1/d^*} = 1 - (1 - \alpha)^{1/7} = 0.0073$. Table C-3 provides a list of the single test error rates used when testing the statistical assumptions.

Spatial Stationarity

Spatial stationarity is defined as the lack of variability across upgradient well locations that are unaffected by the monitored CCR unit. The one-way analysis of variance (ANOVA) or Kruskal-Wallis test was performed to identify spatial variability. The ANOVA and Kruskal-Wallis tests are appropriate only when there is no evidence of heteroscedasticity, meaning variances are equal across wells. The Fligner or Levene test was performed to test for heteroscedasticity, using $\alpha=0.01$ error rate, as recommended by the Unified Guidance (EPA, 2009). The ANOVA and Kruskal-Wallis tests used a single test error rate based on the number of tests performed for each constituent list. Results of the ANOVA and Kruskal-Wallis test are presented in Table C-4.

For Coleta Creek, spatial variability was identified in Appendix III and Appendix IV constituents among the upgradient wells. The background sample concentrations are generally within the natural range of concentrations in the downgradient and other upgradient wells. Furthermore, there is no obvious source of the spatial variability observed in the well samples other than natural chemical variability in the uppermost aquifer. As such, the background sample concentrations represent the natural range of Appendix III and Appendix IV constituent concentrations in the uppermost aquifer and are considered usable data for detecting a release from the CCR unit.

Temporal Stationarity and Lack of Autocorrelation

Temporal stationarity is the lack of temporal variability. Temporal variation refers to the concept that concentration levels vary over time, and can be present across a group of wells and/or constituents at an individual well or for a single constituent. The Mann-Kendall trend test was performed to identify linearly increasing or decreasing trends at each upgradient well. By definition temporal variability also includes autocorrelation. Autocorrelation is the statistical dependence between pairs of concentrations across a sequence of time. That means, pairs of consecutive concentrations exhibit stronger similarity in concentration levels than expected from pairs collected at random times (EPA, 2009). The rank von Neumann ratio test was performed to identify autocorrelation in the upgradient wells. This test was not designed to handle tied values such as non-detect concentrations, and so it was only performed for upgradient wells and constituents with at least 50% detected concentrations. Results of the Mann-Kendall test and rank von Neumann ratio test are presented in Table C-5.

For Coleta Creek, a few linear decreasing and increasing trends were identified, and several autocorrelations were identified out of the Appendix III constituent and upgradient well combinations;

no linear trends or autocorrelations were identified for the Appendix IV constituent and upgradient well combinations. The cases with significant trends and/or autocorrelation have concentrations within the range of detected baseline concentrations in the downgradient and other upgradient wells and are, therefore, considered usable data.

Handling Outliers

Outliers are “extreme, unusual-looking measurements” and the Unified Guidance recommends testing for outliers to attempt to determine whether a suspect outlier was drawn from the same sample population as the rest of the data.

Before establishing baseline values for the detection monitoring or assessment monitoring programs, two steps were taken to check for suspect outliers for each detected constituent across the upgradient wells: a box plot was created to identify suspect outliers as a basis to identify suspect outliers, and if the constituent had at least 50% detected concentrations then the Dixon’s test was performed as a formal test to check if a suspect outlier is also a statistical outlier. Box plots and results for the Dixon’s test were generated using the statistical software **R** (The R Foundation, 2023). Box plots are provided in Figures C-1 through C-16 and Table C-6 presents the suspect outliers based on the box plots and presents the results from the Dixon’s test, based on a 95% level of confidence.

The only suspect outliers based on box plots are for calcium (two low concentrations of 6.89 and 7.76 mg/L and one high concentration of 143 mg/L), lead (the three detected concentrations of 0.00112, 0.00151, and 0.00288 mg/L) and for combined Radium-226 + Radium-228 (one high concentration of 4.812 pCi/L). The Dixon’s test is appropriate for data sets of fewer than 25 samples, and so Dixon’s test was used to evaluate outliers in the baseline data sets. Since there were less than 50% detects for lead, the Dixon’s test was not performed. The Dixon’s test assumes that a data set with the suspect outlier removed is normally distributed (or lognormally distributed if the data are transformed to the natural-log scale). For Coletto Creek, when the maximum calcium detection was removed, the remaining data could not be defined as normal or lognormal, so Dixon’s test could not be performed. Furthermore, the Dixon’s test can only test if one detected concentration (i.e., the minimum or the maximum) is a statistical outlier. For Coletto Creek, two low suspect outliers were identified for calcium and so the Dixon’s test was performed only for the lowest calcium detection. The Dixon’s test was also used to test if the highest value of the combined radium was a statistical outlier. For both these cases, the results of the Dixon’s test indicated that these suspect outliers were also considered statistical outliers. Although

the low calcium value was identified as a statistical outlier, it is within the range of detected baseline concentrations in the downgradient wells and so it was not removed from the baseline data set. The high combined Radium-226 + Radium-228 value that was identified as a statistical outlier was kept in the baseline data set because when the estimated UPL includes this value, the UPL is less than the MCL of 5 pCi/L. Even though lead has suspect outliers, these lead concentrations are the only upgradient baseline detections for lead, are all below the MCL of 0.015 mg/L, and are within the range of detected baseline concentrations in the downgradient wells. So, neither the suspect outliers nor statistical outliers unfairly affected the estimated baseline values for background and were not censored.

C.3 Statistical Approach for Calculating UPLs

UPLs were calculated for each detected constituent across the upgradient wells to establish baseline values for background. UPLs were calculated to include a 1-of-2 retesting strategy to ensure comparisons are statistically powerful and to achieve the SWFPR. A 1-of-2 retesting strategy means that if one or more constituent concentrations in a compliance well are above their respective baseline concentration, a resample can be collected to validate or invalidate the baseline concentration exceedance.

Background data distributions were defined in accordance with EPA guidance (EPA, 2000; EPA, 2002; EPA, 2009; EPA, 2017; SWDIV, 1998). UPLs were calculated based on the site-wide false positive rate (SWFPR) and defined background data distribution. Power rates were defined for each calculated UPL. The open source, statistical software R (The R Foundation, 2023) was used to perform all statistical distribution tests and to calculate UPLs.

Achieving the SWFPR

UPLs were computed using a significance level that ensures a cumulative SWFPR or Type I experiment wise error rate for yearly monitoring that is no more than 10%. That means, a single test error rate for the UPLs must be considerably lower than 0.10. The single test error rate depends on the number of detected constituents and number of compliance wells evaluated in the CCR monitoring program, defined as: $1 - (1 - \alpha)^{1/cw}$, where

- $\alpha=0.10$,
- $c=7$ or 9 , the number detected constituents for the monitoring program for Appendix III and Appendix IV constituents, respectively; and

- w=6, the number of downgradient compliance wells at Coletto Creek.

The single test error rate for the UPLs is 0.0025 and 0.0019 for the detected Appendix III constituents and Appendix IV constituents, respectively. The Unified Guidance recommends defining the single test error rate for nonparametric UPLs as: $1 - (1 - \alpha)^{1/c}$, and so the single test error rate for nonparametric UPLs is 0.015 and 0.012 for the detected Appendix III constituents and Appendix IV constituents, respectively. Since field pH has two bounds, a lower and upper prediction limit, the SWPFR for field pH is one-half of the appropriate SWFPR value shown above.

Defining a Distribution and Type of UPL

The type of UPL calculated is based on a data set's defined distribution. Figure C-17 outlines the steps that were taken to define whether a data set follows a normal, gamma, lognormal, or nonparametric distribution. Distributional test results and defined distributions are presented in Table C-7.

The type of UPL computed (e.g., parametric or nonparametric) was based on the detection frequency and the defined data distribution. For a constituent with no detections in the baseline data, the UPL was set to the reporting limit (EPA, 2009). For a constituent with at least 50% detections, the UPL was adjusted for non-detected concentration(s), as described previously in the Data Preparation section, Section C.1, and the appropriate UPL calculation was based on results from the distributional tests. If no parametric distribution (normal, gamma, or lognormal) was appropriate, then a nonparametric UPL was estimated. The confidence level used for each UPL was based on the appropriate single test error rate.

Defining Power Rate associated with each UPL

The power of each UPL was evaluated and a power rate was defined as good, acceptable, or low. A power rate was defined as 'good' when the power at both 3 standard deviations and 4 standard deviations were above 85%; a power rate was defined as 'acceptable' when power at either 3 standard deviations or 4 standard deviations was between 59% and 85%; and a power rate was defined as 'low' occurs when power at both 3 standard deviations and 4 standard deviations were below 85%.

C.4 Detection and Assessment Monitoring Data Evaluations

Detection and assessment monitoring constituent concentrations are compared to the appropriate baseline value for background or GWPS to determine whether a significant difference exists between the initial and current site conditions. The appropriate baseline value for detection monitoring is the

Appendix III constituent's UPL and the appropriate baseline value for assessment monitoring is the Appendix IV constituent's GWPS (Table C-8). The GWPS for each Appendix IV constituent is established as follows:

- For constituents with an established MCL, the GWPS is the highest of the MCL, UPL, or reporting limit for that constituent; or
- For constituents with no established MCL, the GWPS is the highest of the UPL, reporting limit, or the specified regional screening level (RSL) for that constituent (note: future revisions to the Rule may allow additional flexibility in establishing GWPS for states with EPA-approved CCR permit programs for Appendix IV constituents that do not have a MCL).

For detection monitoring, a well is defined as in-compliance when all the Appendix III constituent concentrations are less than the appropriate baseline value. If any concentration exceeds the appropriate baseline value, then a resample may be collected, analyzed, and compared to the appropriate baseline value—if the resample exceeds the appropriate baseline value, then a statistically significant increase over baseline is indicated.

For assessment monitoring, a 95% confidence interval of the mean is estimated for each detected Appendix IV constituent in a downgradient well using the current and previous sampling event concentrations. The confidence interval contains both an LCL and an upper confidence limit (UCL). The Unified Guidance states that “for testing under compliance/assessment monitoring, a [LCL] around the true parameter is utilized. If the LCL exceeds the standard [GWPS], there is statistically significant evidence in favor that the compliance standard has been violated.” A constituent is in-compliance when the LCL for the constituent is less than the appropriate GWPS. (EPA, 2009).

The 95% confidence interval (i.e., the LCL and UCL) is based on the constituent concentrations from the current year's sampling events and historical sampling events at a given well. Confidence intervals are calculated based on the defined data distribution. The data distribution is defined in accordance with EPA guidance (EPA, 2000; EPA, 2002; EPA, 2009; EPA, 2017; SWDIV, 1998). The type of confidence interval computed (e.g., parametric or nonparametric) is based on the detection frequency and the defined data distribution for each data set, as described in Section C.3. For a constituent with no detected concentration measurements, the LCL (and UCL) is set to the reporting limit (EPA, 2009). For a constituent with at least 50% detections, the LCL (and UCL) calculation adjusts for non-detected concentration(s) as described in Section C.1, and the appropriate LCL (and UCL) calculation is used based on results from the distributional tests. If no parametric distribution (normal, lognormal, or gamma) can

be defined for a data set or there are fewer than 50% detections, then a nonparametric, approximate 95% confidence interval of the median is estimated for the LCL and UCL.

C.5 REFERENCES

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Tables

**Table C-1. CCR Groundwater Baseline Detection
Monitoring Data Summary - Coieto Creek**

| Sample Location | Date Sampled | B | Ca | Cl | FI | field pH | SO ₄ | TDS |
|---------------------------|--------------|-------|-------|------|------|----------|-----------------|-----|
| Upgradient Wells | | | | | | | | |
| BV-5 | 3/29/17 | 1.15 | 90.5 | 118 | 0.54 | 7.01 | 147 | 860 |
| | 5/11/17 | 1.03 | 81.6 | 106 | 0.57 | 6.89 | 148 | 862 |
| | 5/16/17 | 1.17 | 99 | 107 | 0.55 | 6.9 | 145 | 832 |
| | 6/7/17 | 1.11 | 88.8 | 109 | 0.56 | 6.64 | 147 | 810 |
| | 6/20/17 | 1.02 | 90.7 | 106 | 0.58 | 6.54 | 145 | 716 |
| | 6/27/17 | 1.14 | 100 | 114 | 0.55 | 6.76 | 144 | 743 |
| | 7/12/17 | 1.07 | 96.8 | 112 | 0.56 | 6.88 | 140 | 430 |
| | 7/18/17 | 1.17 | 143 | 117 | 0.56 | 6.68 | 142 | 817 |
| BV-21 | 3/28/17 | 0.651 | 6.89 | 36 | 0.61 | 7.09 | 69 | 490 |
| | 5/9/17 | 0.687 | 65.2 | 38 | 0.61 | 7.04 | 55 | 410 |
| | 5/17/17 | 0.709 | 74.3 | 39 | 0.58 | 7.05 | 53 | 454 |
| | 6/6/17 | 0.657 | 69 | 40 | 0.59 | 7.11 | 49 | 452 |
| | 6/20/17 | 0.642 | 77 | 40 | 0.61 | 6.7 | 45 | 356 |
| | 6/27/17 | 0.727 | 84.9 | 40 | 0.6 | 6.97 | 46 | 420 |
| | 7/10/17 | 0.674 | 90.6 | 39 | 0.58 | 7.22 | 45 | 427 |
| | 7/18/17 | 0.618 | 84.4 | 39 | 0.6 | 6.91 | 44 | 380 |
| MW-8 | 3/28/17 | 1.2 | 7.76 | 79 | 0.49 | 7.06 | 76 | 626 |
| | 5/9/17 | 1.21 | 77.5 | 77 | 0.44 | 7.15 | 79 | 564 |
| | 5/15/17 | 1.16 | 81.2 | 76 | 0.44 | 7.01 | 79 | 558 |
| | 6/6/17 | 1.26 | 78.1 | 72 | 0.45 | 6.92 | 83.5 | 570 |
| | 6/20/17 | 1.24 | 86.5 | 67 | 0.43 | 6.7 | 89 | 476 |
| | 6/27/17 | 1.23 | 89.6 | 66 | 0.44 | 6.85 | 97 | 533 |
| | 7/10/17 | 1.24 | 92.6 | 63 | 0.44 | 7.13 | 97 | 533 |
| | 7/18/17 | 1.25 | 92.9 | 61 | 0.46 | 6.91 | 100 | 533 |
| Downgradient Wells | | | | | | | | |
| MW-4 | 3/28/17 | 0.287 | 9.14 | 102 | 0.61 | 9.81 | 157 | 794 |
| | 5/9/17 | 0.395 | 88.7 | 101 | 0.61 | 7.27 | 156 | 668 |
| | 5/15/17 | 0.251 | 92.1 | 101 | 0.6 | 6.93 | 157 | 702 |
| | 6/6/17 | 0.243 | 90.7 | 101 | 0.63 | 7.13 | 157 | 728 |
| | 6/20/17 | 0.254 | 99.3 | 101 | 0.62 | 6.71 | 157 | 626 |
| | 6/27/17 | 0.254 | 102 | 101 | 0.63 | 6.87 | 157 | 690 |
| | 7/10/17 | 0.271 | 111 | 101 | 0.62 | 7.16 | 158 | 670 |
| | 7/18/17 | 0.292 | 108 | 101 | 0.63 | 6.82 | 157 | 717 |
| MW-5 | 3/30/17 | 0.11 | 110 | 140 | 0.51 | 6.85 | 184 | 830 |
| | 5/10/17 | 0.115 | 114 | 139 | 0.54 | 6.86 | 183 | 900 |
| | 5/16/17 | 0.215 | 121 | 139 | 0.5 | 6.81 | 183 | 848 |
| | 6/8/17 | 0.122 | 118 | 139 | 0.55 | 6.8 | 182 | 862 |
| | 6/21/17 | 0.122 | 124 | 138 | 0.53 | 6.6 | 182 | 813 |
| | 6/26/17 | 0.121 | 129 | 139 | 0.54 | 6.79 | 184 | 900 |
| | 7/11/17 | 0.111 | 120 | 138 | 0.52 | 6.91 | 184 | 797 |
| | 7/19/17 | 0.001 | 0.005 | 137 | 0.53 | 6.84 | 181 | 857 |
| MW-6 | 3/29/17 | 1.67 | 73.9 | 69 | 0.38 | 7.34 | 99 | 510 |
| | 5/11/17 | 1.94 | 70.6 | 70 | 0.37 | 7.1 | 110 | 490 |
| | 5/16/17 | 1.84 | 76.3 | 70 | 0.36 | 7.23 | 107 | 506 |
| | 6/7/17 | 1.8 | 73.8 | 70 | 0.37 | 6.97 | 103 | 492 |
| | 6/22/17 | 1.97 | 79.9 | 69 | 0.37 | 7.11 | 100 | 510 |
| | 6/28/17 | 1.74 | 81.8 | 69 | 0.37 | 7.16 | 99 | 570 |
| | 7/12/17 | 1.76 | 81.6 | 69 | 0.35 | 7.24 | 98 | 557 |
| | 7/20/17 | 0.005 | 2e-04 | 69 | 0.39 | 6.9 | 97 | 530 |
| MW-9 | 3/30/17 | 3.38 | 54.5 | 71 | 1.13 | 7.35 | 62 | 406 |
| | 5/10/17 | 3.16 | 52.7 | 66 | 1.29 | 7.48 | 59 | 410 |
| | 5/17/17 | 3.18 | 53.3 | 67 | 1.26 | 7.34 | 58 | 440 |
| | 6/7/17 | 3.12 | 52 | 67 | 1.26 | 7.03 | 57 | 380 |
| | 6/21/17 | 3.44 | 60.7 | 66 | 1.39 | 7.09 | 60 | 393 |
| | 6/26/17 | 3.31 | 60.6 | 67 | 1.4 | 7.23 | 61 | 407 |
| | 7/11/17 | 3.35 | 52.1 | 64 | 1.3 | 7.51 | 60 | 927 |
| | 7/19/17 | 3.4 | 50.2 | 63 | 1.4 | 7.29 | 62 | 407 |
| MW-10 | 3/30/17 | 3.74 | 92.1 | 151 | 0.54 | 6.99 | 130 | 804 |
| | 5/10/17 | 7.32 | 56.1 | 82 | 0.83 | 7.23 | 96 | 582 |
| | 5/16/17 | 7.45 | 62.7 | 81 | 0.81 | 7.28 | 95 | 612 |
| | 6/8/17 | 7.54 | 58.1 | 77 | 0.84 | 7.23 | 92 | 604 |
| | 6/21/17 | 9.22 | 60.7 | 77 | 0.84 | 6.97 | 92 | 550 |
| | 6/26/17 | 8.21 | 63.4 | 78 | 0.84 | 7.14 | 92 | 530 |
| | 7/11/17 | 7.99 | 49.5 | 76 | 0.84 | 7.4 | 88 | 617 |
| | 7/19/17 | 8.74 | 56.6 | 74 | 0.86 | 7.25 | 86 | 533 |
| MW-11 | 5/10/17 | 1.35 | 64.1 | 55 | 0.82 | 7.27 | 61 | 394 |
| | 5/16/17 | 1.39 | 62.3 | 52 | 0.85 | 7.29 | 58 | 362 |
| | 5/18/17 | 1.27 | 61.6 | 47.8 | 0.94 | NA | 52.4 | 390 |
| | 6/7/17 | 1.23 | 59.8 | 48 | 0.93 | 7.25 | 50 | 372 |
| | 6/21/17 | 1.19 | 73.1 | 43.7 | 1.04 | 7.15 | 44 | 373 |
| | 6/26/17 | 1.15 | 82 | 44 | 1 | 7.3 | 43 | 407 |
| | 7/11/17 | 1.23 | 44.7 | 44 | 1 | 7.55 | 42 | 603 |
| | 7/19/17 | 1.17 | 48.6 | 43 | 1.01 | 7.21 | 42 | 360 |

Notes: APPENDIX E-Revision 2 October 10, 2023
1. All concentrations in mg/L. pH in standard units.

**Table C-2. CCR Groundwater Baseline
Assessment Monitoring Data Summary -
Coletto Creek**

| Sample Location | Date Sampled | Sb | As | Ba | Be | Cd | Cr | Co | Fl | Pb | Li | Hg | Mo | Se | Th | Ra 226/228 Combined |
|---------------------------|--------------|------------|---------|--------|---------|---------|-----------|---------|------|---------|--------|----------|---------|---------|----------|---------------------|
| Upgradient Wells | | | | | | | | | | | | | | | | |
| BV-5 | 3/29/17 | < 0.0025 | 0.00856 | 0.0451 | < 0.001 | < 0.001 | < 0.005 | 0.0497 | 0.54 | < 0.001 | 0.0206 | < 0.0002 | 0.00925 | < 0.005 | < 0.0015 | 1.503 |
| | 5/11/17 | < 0.0025 | 0.00786 | 0.0368 | < 0.001 | < 0.001 | < 0.005 | 0.0462 | 0.57 | < 0.001 | 0.018 | < 0.0002 | 0.0101 | < 0.005 | < 0.0015 | 1.555 |
| | 5/16/17 | < 0.0025 | 0.00885 | 0.0452 | < 0.001 | < 0.001 | < 0.005 | 0.0495 | 0.55 | 0.00151 | 0.0171 | < 0.0002 | 0.0102 | < 0.005 | < 0.0015 | 0.755 |
| | 6/7/17 | < 0.0025 | 0.00829 | 0.0376 | < 0.001 | < 0.001 | < 0.005 | 0.0483 | 0.56 | < 0.001 | 0.0207 | < 0.0002 | 0.01 | < 0.005 | < 0.0015 | 1.457 |
| | 6/20/17 | < 0.0025 | 0.00841 | 0.0401 | < 0.001 | < 0.001 | < 0.005 | 0.0499 | 0.58 | < 0.001 | 0.0208 | < 0.0002 | 0.0114 | < 0.005 | < 0.0015 | 0.492 |
| | 6/27/17 | < 0.0025 | 0.0083 | 0.0412 | < 0.001 | < 0.001 | < 0.005 | 0.046 | 0.55 | < 0.001 | 0.0198 | < 0.0002 | 0.00942 | < 0.005 | < 0.0015 | 2.247 |
| | 7/12/17 | < 0.0025 | 0.00849 | 0.0416 | < 0.001 | < 0.001 | < 0.005 | 0.0484 | 0.56 | < 0.001 | 0.0188 | < 0.0002 | 0.0096 | < 0.005 | < 0.0015 | 2.139 |
| | 7/18/17 | < 0.0025 | 0.00951 | 0.0578 | < 0.001 | < 0.001 | < 0.00739 | 0.0453 | 0.56 | 0.00288 | 0.022 | < 0.0002 | 0.0083 | < 0.005 | < 0.0015 | 1.26 |
| BV-21 | 3/28/17 | < 0.0025 | 0.0954 | 0.0963 | < 0.001 | < 0.001 | < 0.005 | 0.0083 | 0.61 | < 0.001 | < 0.01 | < 0.0002 | < 0.005 | < 0.005 | < 0.0015 | 1.39 |
| | 5/9/17 | < 0.0025 | 0.108 | 0.0972 | < 0.001 | < 0.001 | < 0.005 | 0.00852 | 0.61 | < 0.001 | < 0.01 | < 0.0002 | < 0.005 | < 0.005 | < 0.0015 | 0.746 |
| | 5/17/17 | < 0.0025 | 0.117 | 0.0944 | < 0.001 | < 0.001 | < 0.005 | 0.00878 | 0.58 | < 0.001 | < 0.01 | < 0.0002 | < 0.005 | < 0.005 | < 0.0015 | 0.919 |
| | 6/6/17 | < 0.0025 | 0.118 | 0.0954 | < 0.001 | < 0.001 | < 0.005 | 0.00806 | 0.59 | < 0.001 | < 0.01 | < 0.0002 | < 0.005 | < 0.005 | < 0.0015 | 0.671 |
| | 6/20/17 | < 0.0025 | 0.121 | 0.101 | < 0.001 | < 0.001 | < 0.005 | 0.00744 | 0.61 | < 0.001 | < 0.01 | < 0.0002 | < 0.005 | < 0.005 | < 0.0015 | 1.672 |
| | 6/27/17 | < 0.0025 | 0.128 | 0.104 | < 0.001 | < 0.001 | < 0.005 | 0.00841 | 0.6 | 0.00112 | < 0.01 | < 0.0002 | < 0.005 | < 0.005 | < 0.0015 | 0.52 |
| | 7/10/17 | < 0.0025 | 0.123 | 0.11 | < 0.001 | < 0.001 | < 0.005 | 0.0086 | 0.58 | < 0.001 | < 0.01 | < 0.0002 | < 0.005 | < 0.005 | < 0.0015 | 0.805 |
| | 7/18/17 | < 0.0025 | 0.115 | 0.101 | < 0.001 | < 0.001 | < 0.005 | 0.00784 | 0.6 | < 0.001 | < 0.01 | < 0.0002 | < 0.005 | < 0.005 | < 0.0015 | 4.812 |
| MW-8 | 3/28/17 | < 0.0025 | 0.00839 | 0.0623 | < 0.001 | < 0.001 | < 0.005 | 0.0236 | 0.49 | < 0.001 | 0.0111 | < 0.0002 | 0.0154 | < 0.005 | < 0.0015 | 0.452 |
| | 5/9/17 | < 0.0025 | 0.00848 | 0.064 | < 0.001 | < 0.001 | < 0.005 | 0.0272 | 0.44 | < 0.001 | 0.0111 | < 0.0002 | 0.0157 | < 0.005 | < 0.0015 | 0.474 |
| | 5/15/17 | < 0.0025 | 0.00926 | 0.064 | < 0.001 | < 0.001 | < 0.005 | 0.0311 | 0.44 | < 0.001 | 0.0112 | < 0.0002 | 0.016 | < 0.005 | < 0.0015 | 0.614 |
| | 6/6/17 | < 0.0025 | 0.00912 | 0.0616 | < 0.001 | < 0.001 | 0.00744 | 0.0308 | 0.45 | < 0.001 | 0.0107 | < 0.0002 | 0.0157 | < 0.005 | < 0.0015 | 0.132 |
| | 6/20/17 | < 0.0025 | 0.00885 | 0.0669 | < 0.001 | < 0.001 | < 0.005 | 0.0297 | 0.43 | < 0.001 | 0.0121 | < 0.0002 | 0.0171 | < 0.005 | < 0.0015 | 0.538 |
| | 6/27/17 | < 0.0025 | 0.00939 | 0.0633 | < 0.001 | < 0.001 | < 0.005 | 0.0314 | 0.44 | < 0.001 | 0.0115 | < 0.0002 | 0.0163 | < 0.005 | < 0.0015 | 0.939 |
| | 7/10/17 | < 0.0025 | 0.00902 | 0.0631 | < 0.001 | < 0.001 | < 0.005 | 0.031 | 0.44 | < 0.001 | 0.0112 | < 0.0002 | 0.0165 | < 0.005 | < 0.0015 | 0.804 |
| | 7/18/17 | < 0.0025 | 0.00937 | 0.0635 | < 0.001 | < 0.001 | < 0.005 | 0.0352 | 0.46 | < 0.001 | 0.0118 | < 0.0002 | 0.0185 | < 0.005 | < 0.0015 | 2.113 |
| Downgradient Wells | | | | | | | | | | | | | | | | |
| MW-4 | 3/28/17 | < 0.0025 | 0.00738 | 0.0575 | < 0.001 | < 0.001 | < 0.005 | 0.0067 | 0.61 | < 0.001 | 0.0192 | < 0.0002 | < 0.005 | < 0.005 | < 0.0015 | 0.46 |
| | 5/9/17 | < 0.0025 | 0.00733 | 0.0576 | < 0.001 | < 0.001 | < 0.005 | 0.00653 | 0.61 | < 0.001 | 0.0182 | < 0.0002 | < 0.005 | < 0.005 | < 0.0015 | 0.694 |
| | 5/15/17 | < 0.0025 | 0.00794 | 0.0556 | < 0.001 | < 0.001 | < 0.005 | 0.00653 | 0.6 | < 0.001 | 0.0166 | < 0.0002 | < 0.005 | < 0.005 | < 0.0015 | 1.451 |
| | 6/6/17 | < 0.0025 | 0.0077 | 0.0556 | < 0.001 | < 0.001 | < 0.005 | 0.00688 | 0.63 | < 0.001 | 0.0179 | < 0.0002 | < 0.005 | < 0.005 | < 0.0015 | 0.174 |
| | 6/20/17 | < 0.0025 | 0.0081 | 0.0596 | < 0.001 | < 0.001 | 0.00877 | 0.00843 | 0.62 | < 0.001 | 0.0195 | < 0.0002 | < 0.005 | < 0.005 | < 0.0015 | 0.543 |
| | 6/27/17 | < 0.0025 | 0.00786 | 0.0554 | < 0.001 | < 0.001 | < 0.005 | 0.00704 | 0.63 | < 0.001 | 0.0185 | < 0.0002 | < 0.005 | < 0.005 | < 0.0015 | 0.639 |
| | 7/10/17 | < 0.0025 | 0.00846 | 0.0582 | < 0.001 | < 0.001 | < 0.005 | 0.0085 | 0.62 | < 0.001 | 0.0187 | < 0.0002 | < 0.005 | < 0.005 | < 0.0015 | 1.069 |
| | 7/18/17 | < 0.0025 | 0.00815 | 0.0549 | < 0.001 | < 0.001 | < 0.005 | 0.00771 | 0.63 | < 0.001 | 0.0183 | < 0.0002 | < 0.005 | < 0.005 | < 0.0015 | 0.191 |
| MW-5 | 3/30/17 | < 0.0025 | 0.00953 | 0.0748 | < 0.001 | < 0.001 | < 0.005 | < 0.005 | 0.51 | < 0.001 | 0.0192 | < 0.0002 | < 0.005 | < 0.005 | < 0.0015 | 1.443 |
| | 5/10/17 | < 0.0025 | 0.00955 | 0.0706 | < 0.001 | < 0.001 | < 0.005 | < 0.005 | 0.54 | < 0.001 | 0.0179 | < 0.0002 | < 0.005 | < 0.005 | < 0.0015 | 0.615 |
| | 5/16/17 | < 0.0025 | 0.00967 | 0.0708 | < 0.001 | < 0.001 | < 0.005 | < 0.005 | 0.5 | < 0.001 | 0.0181 | < 0.0002 | < 0.005 | < 0.005 | < 0.0015 | 0.641 |
| | 6/8/17 | < 0.0025 | 0.00908 | 0.0701 | < 0.001 | < 0.001 | < 0.005 | < 0.005 | 0.55 | < 0.001 | 0.02 | < 0.0002 | < 0.005 | < 0.005 | < 0.0015 | 0.179 |
| | 6/21/17 | < 0.0025 | 0.00917 | 0.0767 | < 0.001 | < 0.001 | < 0.005 | < 0.005 | 0.53 | < 0.001 | 0.0197 | < 0.0002 | < 0.005 | < 0.005 | < 0.0015 | 0.106 |
| | 6/26/17 | < 0.0025 | 0.00955 | 0.0735 | < 0.001 | < 0.001 | < 0.005 | < 0.005 | 0.54 | < 0.001 | 0.0204 | < 0.0002 | < 0.005 | < 0.005 | < 0.0015 | 1.112 |
| | 7/11/17 | < 0.0025 | 0.00945 | 0.0712 | < 0.001 | < 0.001 | < 0.005 | < 0.005 | 0.52 | < 0.001 | 0.0183 | < 0.0002 | < 0.005 | < 0.005 | < 0.0015 | 0.512 |
| | 7/19/17 | < 0.0025 | 0.00941 | 0.0735 | < 0.001 | < 0.001 | < 0.005 | < 0.005 | 0.53 | < 0.001 | 0.0186 | < 0.0002 | < 0.005 | < 0.005 | < 0.0015 | 0.191 |
| MW-6 | 3/29/17 | < 0.0025 | 0.00827 | 0.09 | < 0.001 | < 0.001 | < 0.005 | < 0.005 | 0.38 | < 0.001 | < 0.01 | < 0.0002 | 0.00749 | < 0.005 | < 0.0015 | 1.009 |
| | 5/11/17 | < 0.0025 | 0.00738 | 0.0758 | < 0.001 | < 0.001 | < 0.005 | < 0.005 | 0.37 | < 0.001 | 0.0101 | < 0.0002 | 0.0176 | < 0.005 | < 0.0015 | 0.825 |
| | 5/16/17 | < 0.0025 | 0.00803 | 0.0784 | < 0.001 | < 0.001 | < 0.005 | < 0.005 | 0.36 | < 0.001 | < 0.01 | < 0.0002 | 0.0131 | < 0.005 | < 0.0015 | 0.774 |
| | 6/7/17 | < 0.0025 | 0.00772 | 0.0798 | < 0.001 | < 0.001 | < 0.005 | < 0.005 | 0.37 | < 0.001 | < 0.01 | < 0.0002 | 0.00949 | < 0.005 | < 0.0015 | 0.664 |
| | 6/22/17 | < 0.0025 | 0.00764 | 0.083 | < 0.001 | < 0.001 | < 0.005 | < 0.005 | 0.37 | < 0.001 | 0.0109 | < 0.0002 | 0.0084 | < 0.005 | < 0.0015 | 0.215 |
| | 6/28/17 | < 0.0025 | 0.00779 | 0.0842 | < 0.001 | < 0.001 | < 0.005 | < 0.005 | 0.37 | < 0.001 | < 0.01 | < 0.0002 | 0.00806 | < 0.005 | < 0.0015 | 1.73 |
| | 7/12/17 | < 0.0025 | 0.0077 | 0.0819 | < 0.001 | < 0.001 | < 0.005 | < 0.005 | 0.35 | < 0.001 | < 0.01 | < 0.0002 | 0.0076 | < 0.005 | < 0.0015 | 1.012 |
| | 7/20/17 | < 0.0025 | 0.001 | 0.001 | < 0.001 | < 0.001 | < 0.005 | < 0.005 | 0.39 | < 0.001 | < 0.01 | < 0.0002 | 0.001 | < 0.005 | < 0.0015 | 0.366 |
| MW-9 | 3/30/17 | < 0.0025 | 0.00909 | 0.121 | < 0.001 | < 0.001 | < 0.005 | < 0.005 | 1.13 | 0.00217 | < 0.01 | < 0.0002 | 0.0747 | < 0.005 | < 0.0015 | 1.353 |
| | 5/10/17 | < 0.0025 | 0.00996 | 0.105 | < 0.001 | < 0.001 | < 0.005 | < 0.005 | 1.29 | 0.00433 | < 0.01 | < 0.0002 | 0.09 | < 0.005 | < 0.0015 | 0.48 |
| | 5/17/17 | < 0.0025 | 0.00958 | 0.101 | < 0.001 | < 0.001 | < 0.005 | < 0.005 | 1.26 | 0.00377 | < 0.01 | < 0.0002 | 0.0899 | < 0.005 | < 0.0015 | 0.36 |
| | 6/7/17 | < 0.0025 | 0.0093 | 0.1 | < 0.001 | < 0.001 | < 0.005 | < 0.005 | 1.26 | < 0.001 | < 0.01 | < 0.0002 | 0.0926 | < 0.005 | < 0.0015 | 0.476 |
| | 6/21/17 | < 0.0025 | 0.00937 | 0.119 | < 0.001 | < 0.001 | < 0.005 | < 0.005 | 1.39 | 0.00136 | < 0.01 | < 0.0002 | 0.102 | < 0.005 | < 0.0015 | 1.579 |
| | 6/26/17 | < 0.0025 | 0.0107 | 0.114 | < 0.001 | < 0.001 | 0.0102 | < 0.005 | 1.4 | 0.00217 | < 0.01 | < 0.0002 | 0.106 | < 0.005 | < 0.0015 | 1.023 |
| | 7/11/17 | < 0.0025 | 0.0105 | 0.103 | < 0.001 | < 0.001 | 0.00566 | < 0.005 | 1.3 | 0.00124 | < 0.01 | < 0.0002 | 0.105 | < 0.005 | < 0.0015 | 0.863 |
| | 7/19/17 | < 0.0025 | 0.0103 | 0.101 | < 0.001 | < 0.001 | < 0.005 | < 0.005 | 1.4 | < 0.001 | < 0.01 | < 0.0002 | 0.113 | < 0.005 | < 0.0015 | 0.584 |
| MW-10 | 3/30/17 | < 0.0025 | 0.011 | 0.0844 | < 0.001 | < 0.001 | < 0.005 | < 0.005 | 0.54 | < 0.001 | 0.0179 | < 0.0002 | 0.0342 | < 0.005 | < 0.0015 | 1.439 |
| | 5/10/17 | < 0.0025 | 0.0146 | 0.0554 | < 0.001 | < 0.001 | 0.00533 | < 0.005 | 0.83 | < 0.001 | 0.0122 | < 0.0002 | 0.102 | < 0.005 | < 0.0015 | 0.888 |
| | 5/16/17 | < 0.0025 | 0.015 | 0.0598 | < 0.001 | < 0.001 | < 0.005 | < 0.005 | 0.81 | < 0.001 | 0.0123 | < 0.0002 | 0.0987 | < 0.005 | < 0.0015 | 0.183 |
| | 6/8/17 | < 0.0025 | 0.0144 | 0.0544 | < 0.001 | < 0.001 | < 0.005 | < 0.005 | 0.84 | < 0.001 | 0.0115 | < 0.0002 | 0.106 | < 0.005 | < 0.0015 | 0.067 |
| | 6/21/17 | < 0.0025</ | | | | | | | | | | | | | | |

**Table C-3. Single-Test Error Rates to Achieve Type 1 Experimentwise Error Rate of $\alpha=0.05$
Coletto Creek - Upgradient Wells (BV-21, BV-5, and MW-8)**

| Constituent List | | Single-Test Error Rate (# of Detected Constituents) for Temporal Tests | | |
|------------------|----------------------------------|---|------------|------------|
| | | BV-21 | BV-5 | MW-8 |
| Appendix III | Constituents Detected | 0.0073 (7) | 0.0073 (7) | 0.0073 (7) |
| | Constituents Detected \geq 50% | 0.0073 (7) | 0.0073 (7) | 0.0073 (7) |
| Appendix IV | Constituents Detected | 0.0085 (6) | 0.0057 (9) | 0.0064 (8) |
| | Constituents Detected \geq 50% | 0.010 (5) | 0.0073 (7) | 0.0073 (7) |

Table C-4. Summary of Spatial Analysis - Results from ANOVA or Kruskal-Wallis Test Coleta Creek - Upgradient Wells (BV-21, BV-5, and MW-8)

| Constituent List | Constituent | # Detects/ # Samples Upgradient Wells | # Detects/ # Samples at BV-21 | # Detects/ # Samples at BV-5 | # Detects/ # Samples at MW-8 | Defined Distribution for Residuals ¹ | Levene's or Fligner's Test ² | | ANOVA or Kruskal-Wallis ³ | |
|-------------------------|------------------------|---------------------------------------|-------------------------------|------------------------------|------------------------------|---|---|-----------------------------|--------------------------------------|--|
| | | | | | | | p-value | Heteroscedasticity present? | p-value | Statistically Significant ⁴ ? |
| Appendix III | Boron | 24/24 | 8/8 | 8/8 | 8/8 | Normal | 0.063 | No | 1.1E-16 | Yes |
| | Calcium | 24/24 | 8/8 | 8/8 | 8/8 | Not Normal or Lognormal | 0.67 | No | 6.5E-03 | Yes |
| | Chloride | 24/24 | 8/8 | 8/8 | 8/8 | Normal | 2.5E-04 | Yes | -- | -- |
| | Fluoride | 24/24 | 8/8 | 8/8 | 8/8 | Normal | 0.63 | No | 1.2E-14 | Yes |
| | field pH | 24/24 | 8/8 | 8/8 | 8/8 | Normal | 0.90 | No | 0.022 | No |
| | Sulfate | 24/24 | 8/8 | 8/8 | 8/8 | Normal | 0.012 | No | 1.8E-16 | Yes |
| | Total Dissolved Solids | 24/24 | 8/8 | 8/8 | 8/8 | Not Normal or Lognormal | 0.39 | No | 3.1E-04 | Yes |
| Appendix IV | Antimony | 0/24 | 0/8 | 0/8 | 0/8 | -- | -- | -- | -- | -- |
| | Arsenic | 24/24 | 8/8 | 8/8 | 8/8 | Lognormal | 0.35 | No | 7.8E-28 | Yes |
| | Barium | 24/24 | 8/8 | 8/8 | 8/8 | Not Normal or Lognormal | 0.027 | No | 3.5E-05 | Yes |
| | Beryllium | 0/24 | 0/8 | 0/8 | 0/8 | -- | -- | -- | -- | -- |
| | Cadmium | 0/24 | 0/8 | 0/8 | 0/8 | -- | -- | -- | -- | -- |
| | Chromium | 2/24 | 0/8 | 1/8 | 1/8 | Not Normal or Lognormal | 0.58 | No | 0.59 | No |
| | Cobalt | 24/24 | 8/8 | 8/8 | 8/8 | Normal | 0.026 | No | 1.9E-19 | Yes |
| | Fluoride | 24/24 | 8/8 | 8/8 | 8/8 | Normal | 0.63 | No | 1.2E-14 | Yes |
| | Lead | 3/24 | 1/8 | 2/8 | 0/8 | Not Normal or Lognormal | 0.27 | No | 0.30 | No |
| | Lithium | 16/24 | 0/8 | 8/8 | 8/8 | Nonparametric (all NDs for BV-21) | 7.9E-04 | Yes | -- | -- |
| | Mercury | 0/24 | 0/8 | 0/8 | 0/8 | -- | -- | -- | -- | -- |
| | Molybdenum | 16/24 | 0/8 | 8/8 | 8/8 | Nonparametric (all NDs for BV-21) | 2.3E-03 | Yes | -- | -- |
| | Selenium | 0/24 | 0/8 | 0/8 | 0/8 | -- | -- | -- | -- | -- |
| | Thallium | 0/24 | 0/8 | 0/8 | 0/8 | -- | -- | -- | -- | -- |
| Radium-226 + Radium-228 | 24/24 | 8/8 | 8/8 | 8/8 | Lognormal | 0.75 | No | 0.074 | No | |

1-a=0.01, Distribution Test

2-Heteroscedasticity based on Levene when data Normal or Lognormal, otherwise Fligner Test; a=0.01

3-ANOVA used when residuals are Normal or Lognormal, otherwise Kruskal-Wallis Test

4-a=0.0085 for Appendix III and Appendix IV

Table C-5. Summary of Mann-Kendall Trend Test and rank von Neumann Autocorrelation Test Coleta Creek - Upgradient Wells (BV-21, BV-5, and MW-8)

| Upgradient Well | Constituent List | Analyte | # Detects/ # Samples | % Detects | Mann-Kendall Trend Test | | rank von Neumann Autocorrelation Test | |
|-------------------------|------------------|------------------------|----------------------|-----------|-------------------------|----------------------------|---------------------------------------|----------------------------|
| | | | | | p-value | Statistically Significant? | p-value | Statistically Significant? |
| BV-21 | Appendix III | Boron | 8/8 | 100 | 0.71 | No | 0.93 | No |
| | | Calcium | 8/8 | 100 | 0.0094 | No | 0.0056 | Yes |
| | | Chloride | 8/8 | 100 | 0.24 | No | 0.0078 | No |
| | | Fluoride | 8/8 | 100 | 0.44 | No | 0.64 | No |
| | | field pH | 8/8 | 100 | 0.71 | No | 0.42 | No |
| | | Sulfate | 8/8 | 100 | 0.0028 | Yes (decreasing) | 0.0019 | Yes |
| | | Total Dissolved Solids | 8/8 | 100 | 0.17 | No | 0.98 | No |
| | Appendix IV | Antimony | 0/8 | 0 | -- | -- | -- | -- |
| | | Arsenic | 8/8 | 100 | 0.063 | No | 0.019 | No |
| | | Barium | 8/8 | 100 | 0.081 | No | 0.040 | No |
| | | Beryllium | 0/8 | 0 | -- | -- | -- | -- |
| | | Cadmium | 0/8 | 0 | -- | -- | -- | -- |
| | | Chromium | 0/8 | 0 | -- | -- | -- | -- |
| | | Cobalt | 8/8 | 100 | 0.71 | No | 0.90 | No |
| | | Fluoride | 8/8 | 100 | 0.44 | No | 0.64 | No |
| | | Lead | 1/8 | 13 | 0.66 | No | -- | -- |
| | | Lithium | 0/8 | 0 | -- | -- | -- | -- |
| | | Mercury | 0/8 | 0 | -- | -- | -- | -- |
| | | Molybdenum | 0/8 | 0 | -- | -- | -- | -- |
| | | Selenium | 0/8 | 0 | -- | -- | -- | -- |
| Thallium | 0/8 | 0 | -- | -- | -- | -- | | |
| Radium-226 + Radium-228 | 8/8 | 100 | 0.90 | No | 0.44 | No | | |
| BV-5 | Appendix III | Boron | 8/8 | 100 | 1 | No | 0.47 | No |
| | | Calcium | 8/8 | 100 | 0.063 | No | 0.61 | No |
| | | Chloride | 8/8 | 100 | 0.45 | No | 0.76 | No |
| | | Fluoride | 8/8 | 100 | 0.52 | No | 0.44 | No |
| | | field pH | 8/8 | 100 | 0.17 | No | 0.14 | No |
| | | Sulfate | 8/8 | 100 | 0.017 | No | 0.026 | No |
| | | Total Dissolved Solids | 8/8 | 100 | 0.063 | No | 0.045 | No |
| | Appendix IV | Antimony | 0/8 | 0 | -- | -- | -- | -- |
| | | Arsenic | 8/8 | 100 | 0.39 | No | 0.56 | No |
| | | Barium | 8/8 | 100 | 0.27 | No | 0.69 | No |
| | | Beryllium | 0/8 | 0 | -- | -- | -- | -- |
| | | Cadmium | 0/8 | 0 | -- | -- | -- | -- |
| | | Chromium | 1/8 | 13 | 0.19 | No | -- | -- |
| | | Cobalt | 8/8 | 100 | 0.27 | No | 0.49 | No |
| | | Fluoride | 8/8 | 100 | 0.52 | No | 0.44 | No |
| | | Lead | 2/8 | 25 | 0.51 | No | -- | -- |
| | | Lithium | 8/8 | 100 | 0.39 | No | 0.61 | No |
| | | Mercury | 0/8 | 0 | -- | -- | -- | -- |
| | | Molybdenum | 8/8 | 100 | 0.54 | No | 0.44 | No |
| | | Selenium | 0/8 | 0 | -- | -- | -- | -- |
| Thallium | 0/8 | 0 | -- | -- | -- | -- | | |
| Radium-226 + Radium-228 | 8/8 | 100 | 1 | No | 0.76 | No | | |
| MW-8 | Appendix III | Boron | 8/8 | 100 | 0.13 | No | 0.51 | No |
| | | Calcium | 8/8 | 100 | 0.0020 | Yes (increasing) | 8.9E-04 | Yes |
| | | Chloride | 8/8 | 100 | 0.00084 | Yes (decreasing) | 9.9E-05 | Yes |
| | | Fluoride | 8/8 | 100 | 0.89 | No | 0.56 | No |
| | | field pH | 8/8 | 100 | 0.27 | No | 0.44 | No |
| | | Sulfate | 8/8 | 100 | 0.0017 | Yes (increasing) | 8.9E-04 | Yes |
| | | Total Dissolved Solids | 8/8 | 100 | 0.075 | No | 0.17 | No |
| | Appendix IV | Antimony | 0/8 | 0 | -- | -- | -- | -- |
| | | Arsenic | 8/8 | 100 | 0.11 | No | 0.64 | No |
| | | Barium | 8/8 | 100 | 1 | No | 0.23 | No |
| | | Beryllium | 0/8 | 0 | -- | -- | -- | -- |
| | | Cadmium | 0/8 | 0 | -- | -- | -- | -- |
| | | Chromium | 1/8 | 13 | 1 | No | -- | -- |
| | | Cobalt | 8/8 | 100 | 0.035 | No | 0.21 | No |
| | | Fluoride | 8/8 | 100 | 0.89 | No | 0.56 | No |
| | | Lead | 0/8 | 0 | -- | -- | -- | -- |
| | | Lithium | 8/8 | 100 | 0.17 | No | 0.76 | No |
| | | Mercury | 0/8 | 0 | -- | -- | -- | -- |
| | | Molybdenum | 8/8 | 100 | 0.013 | No | 0.062 | No |
| | | Selenium | 0/8 | 0 | -- | -- | -- | -- |
| Thallium | 0/8 | 0 | -- | -- | -- | -- | | |
| Radium-226 + Radium-228 | 8/8 | 100 | 0.035 | No | 0.12 | No | | |

Table C-6. Summary of Observed Suspect Outliers, Dixon's Test and Rosner's Test- Normality Coletto Creek - Combined Upgradient Wells (BV-21, BV-5, and MW-8)

| Constituent List | Constituent | Suspect Outlier for Low or High Concentration? | Suspect Outlier Concentration (Date Sampled) | p-values for Distributional Tests without Outlier - Normality | | | Is Distribution without Outlier(s) Normal? | p-values for Distributional Tests without Outlier - Lognormality | | | Is Distribution without Outlier(s) Lognormal? | Conclusion of Dixon Test |
|------------------|-------------------------|--|--|---|--------------------|------------------------------|--|--|--------------------|------------------------------|---|---|
| | | | | Kolmogorov-Smirnov Test | Shapiro-Wilks Test | Probability Plot Correlation | | Kolmogorov-Smirnov Test | Shapiro-Wilks Test | Probability Plot Correlation | | |
| Appendix III | Calcium | Low | 6.89 mg/L (3/28/2017 at BV-21) | 0.036 | 7.7E-04 | 6.1E-04 | No | 0.21 | 0.033 | 0.014 | Yes | 6.89 mg/L Statistical Low Outlier (p-value=0.018) based on Lognormality |
| | | | 7.76 mg/L (3/28/2017 at MW-8) | | | | | | | | | |
| | | High | 143 mg/L (7/18/2017 at BV-5) | 7.8E-04 | 2.0E-05 | 5.2E-05 | No | 2.9E-09 | 1.4E-07 | 8.2E-07 | No | Not Performed, data not Normal or Lognormal |
| Appendix IV | Lead | High | 0.00112 mg/L (6/21/2017 at BV-21) | -- | -- | -- | -- | -- | -- | -- | -- | Not Performed, <50% Detects |
| | | | 0.00151 mg/L (5/16/2017 at BV-5) | | | | | | | | | |
| | | | 0.00288 mg/L (7/18/2017 at BV-5) | | | | | | | | | |
| | Radium-226 + Radium-228 | High | 4.812 pCi/L (7/18/2017 at BV-21) | 0.024 | 0.046 | 0.055 | Yes | 0.46 | 0.13 | 0.085 | Yes | 4.812 pCi/L Statistical High Outlier (p-value<0.0001) based on Normality |

NOTE: APPENDIX E-Revision 2 October 10, 2023
Dixon's Test can be performed for only one value.

Statistical Significance for Distributional tests and for Dixon's test are based on 95% level of confidence, or $\alpha=0.05$.

**Table C-7. Summary of Distributional Tests
Coletto Creek - Combined Upgradient Wells (BV-21,
BV-5, and MW-8)**

| Constituent List | Constituent | # Detects/ # Samples | % Detects | Defined Distribution | Tests for Normality | | | Can the Data be defined as Normal? |
|------------------|-------------------------|----------------------|-----------|-----------------------------|-------------------------|--------------------|------------------------------|------------------------------------|
| | | | | | Kolmogorov-Smirnov Test | Shapiro-Wilks Test | Probability Plot Correlation | |
| Appendix III | Boron | 24/24 | 100 | Nonparametric | 0.0060 | 0.00028 | 0.0011 | No |
| | Calcium | 24/24 | 100 | Nonparametric | 0.0016 | 0.00012 | 0.00014 | No |
| | Chloride | 24/24 | 100 | Nonparametric | 0.018 | 0.0039 | 0.013 | No |
| | Fluoride | 24/24 | 100 | Nonparametric | 0.0055 | 0.0014 | 0.0048 | No |
| | field pH | 24/24 | 100 | Normal | 0.55 | 0.53 | 0.57 | Yes |
| | Sulfate | 24/24 | 100 | Nonparametric | 0.010 | 0.0028 | 0.010 | No |
| | Total Dissolved Solids | 24/24 | 100 | Gamma | 0.035 | 0.015 | 0.034 | No |
| Appendix IV | Antimony | 0/24 | 0 | All NDs | -- | -- | -- | -- |
| | Arsenic | 24/24 | 100 | Nonparametric | 5.3E-12 | 1.8E-06 | 1.3E-05 | No |
| | Barium | 24/24 | 100 | Lognormal | 0.011 | 0.0094 | 0.024 | No |
| | Beryllium | 0/24 | 0 | All NDs | -- | -- | -- | -- |
| | Cadmium | 0/24 | 0 | All NDs | -- | -- | -- | -- |
| | Chromium | 2/24 | 8.33 | Nonparametric, <50% Detects | -- | -- | -- | -- |
| | Cobalt | 24/24 | 100 | Nonparametric | 0.0048 | 0.0017 | 0.0066 | No |
| | Fluoride | 24/24 | 100 | Nonparametric | 0.0055 | 0.0014 | 0.0048 | No |
| | Lead | 3/24 | 12.5 | Nonparametric, <50% Detects | -- | -- | -- | -- |
| | Lithium | 16/24 | 66.67 | Nonparametric | 0.0018 | 0.00330 | 0.00897 | No |
| | Mercury | 0/24 | 0 | All NDs | -- | -- | -- | -- |
| | Molybdenum | 16/24 | 66.67 | Nonparametric | 0.012 | 0.015 | 0.030 | No |
| | Selenium | 0/24 | 0 | All NDs | -- | -- | -- | -- |
| | Thallium | 0/24 | 0 | All NDs | -- | -- | -- | -- |
| | Radium-226 + Radium-228 | 24/24 | 100 | Gamma | 0.021 | 8.7E-05 | 0.00012 | No |

Note:

Statistical Significance for Distributional tests are based on 95% level of confidence, or $\alpha=0.05$.
 -- No Distributional Test performed since <50% Detects

**Table C-7. Summary of Distributional Tests
Coletto Creek - Combined Upgradient Wells (BV-21,
BV-5, and MW-8)**

| Constituent List | Constituent | # Detects/ # Samples | % Detects | Defined Distribution | Tests for Gamma | | Can the Data be defined as Gamma? |
|------------------|-------------------------|----------------------|-----------|-----------------------------|--------------------|------------------------------|-----------------------------------|
| | | | | | Shapiro-Wilks Test | Probability Plot Correlation | |
| Appendix III | Boron | 24/24 | 100 | Nonparametric | 0.00017 | 0.00070 | No |
| | Calcium | 24/24 | 100 | Nonparametric | 4.8E-07 | 1.9E-06 | No |
| | Chloride | 24/24 | 100 | Nonparametric | 0.0042 | 0.014 | No |
| | Fluoride | 24/24 | 100 | Nonparametric | 0.00097 | 0.0033 | No |
| | field pH | 24/24 | 100 | Normal | 0.49 | 0.52 | Yes |
| | Sulfate | 24/24 | 100 | Nonparametric | 0.0063 | 0.021 | No |
| | Total Dissolved Solids | 24/24 | 100 | Gamma | 0.054 | 0.11 | Yes |
| Appendix IV | Antimony | 0/24 | 0 | All NDs | -- | -- | -- |
| | Arsenic | 24/24 | 100 | Nonparametric | 1.8E-06 | 1.3E-05 | No |
| | Barium | 24/24 | 100 | Lognormal | 0.019 | 0.047 | No |
| | Beryllium | 0/24 | 0 | All NDs | -- | -- | -- |
| | Cadmium | 0/24 | 0 | All NDs | -- | -- | -- |
| | Chromium | 2/24 | 8.33 | Nonparametric, <50% Detects | -- | -- | -- |
| | Cobalt | 24/24 | 100 | Nonparametric | 0.00047 | 0.0019 | No |
| | Fluoride | 24/24 | 100 | Nonparametric | 0.00097 | 0.0033 | No |
| | Lead | 3/24 | 12.5 | Nonparametric, <50% Detects | -- | -- | -- |
| | Lithium | 16/24 | 66.67 | Nonparametric | 0.0029 | 0.0080 | No |
| | Mercury | 0/24 | 0 | All NDs | -- | -- | -- |
| | Molybdenum | 16/24 | 66.67 | Nonparametric | 0.016 | 0.031 | No |
| | Selenium | 0/24 | 0 | All NDs | -- | -- | -- |
| | Thallium | 0/24 | 0 | All NDs | -- | -- | -- |
| | Radium-226 + Radium 228 | 24/24 | 100 | Gamma | 0.27 | 0.12 | Yes |

Note:

Statistical Significance for Distributional Tests are based on 95% level of confidence, or $\alpha=0.05$.

-- No Distributional Test performed since <50% Detects

**Table C-7. Summary of Distributional Tests
Coletto Creek - Combined Upgradient Wells (BV-21, BV-5, and MW-8)**

| Constituent List | Constituent | # Detects/ # Samples | % Detects | Defined Distribution | Tests for Lognormality | | | Can the Data be defined as Lognormal? |
|------------------|-------------------------|----------------------|-----------|-----------------------------|-------------------------|--------------------|------------------------------|---------------------------------------|
| | | | | | Kolmogorov-Smirnov Test | Shapiro-Wilks Test | Probability Plot Correlation | |
| Appendix III | Boron | 24/24 | 100 | Nonparametric | 0.00076 | 0.00013 | 0.00056 | No |
| | Calcium | 24/24 | 100 | Nonparametric | 1.9E-09 | 7.5E-08 | 4.3E-07 | No |
| | Chloride | 24/24 | 100 | Nonparametric | 0.0070 | 0.0034 | 0.011 | No |
| | Fluoride | 24/24 | 100 | Nonparametric | 0.0015 | 0.00080 | 0.0028 | No |
| | field pH | 24/24 | 100 | Normal | 0.48 | 0.46 | 0.50 | Yes |
| | Sulfate | 24/24 | 100 | Nonparametric | 0.021 | 0.0070 | 0.023 | No |
| | Total Dissolved Solids | 24/24 | 100 | Gamma | 0.36 | 0.091 | 0.18 | Yes |
| Appendix IV | Antimony | 0/24 | 0 | All NDs | -- | -- | -- | -- |
| | Arsenic | 24/24 | 100 | Nonparametric | 4.9E-11 | 1.9E-06 | 1.4E-05 | No |
| | Barium | 24/24 | 100 | Lognormal | 0.036 | 0.022 | 0.053 | Yes |
| | Beryllium | 0/24 | 0 | All NDs | -- | -- | -- | -- |
| | Cadmium | 0/24 | 0 | All NDs | -- | -- | -- | -- |
| | Chromium | 2/24 | 8.33 | Nonparametric, <50% Detects | -- | -- | -- | -- |
| | Cobalt | 24/24 | 100 | Nonparametric | 0.0025 | 0.00020 | 0.00087 | No |
| | Fluoride | 24/24 | 100 | Nonparametric | 0.0015 | 0.00080 | 0.0028 | No |
| | Lead | 3/24 | 12.5 | Nonparametric, <50% Detects | -- | -- | -- | -- |
| | Lithium | 16/24 | 66.67 | Nonparametric | 0.0040 | 0.0027 | 0.0075 | No |
| | Mercury | 0/24 | 0 | All NDs | -- | -- | -- | -- |
| | Molybdenum | 16/24 | 66.67 | Nonparametric | 0.0045 | 0.016 | 0.031 | No |
| | Selenium | 0/24 | 0 | All NDs | -- | -- | -- | -- |
| | Thallium | 0/24 | 0 | All NDs | -- | -- | -- | -- |
| | Radium-226 + Radium 228 | 24/24 | 100 | Gamma | 0.55 | 0.46 | 0.20 | Yes |

Note:

Statistical Significance for Distributional tests are based on 95% level of confidence, or $\alpha=0.05$.

-- No Distributional Test performed since <50% Detects

**Table C-8. Summary Statistics with Baseline Values¹ (UPLs and GWPS)
Coletto Creek - Combined Upgradient Wells (BV-21, BV-5, and MW-8)**

| Constituent List | Constituent | # Detects/ # Samples | % Detects | Minimum Detected Result | Maximum Detected Result | Baseline Value (UPL/ GWPS) | MCL or RSL ² | Reporting Limit | UPL 1-of-2 | Defined Distribution | single test error rate for annual SWFPR of 10% | Power Rate for UPL 1-of-2 |
|-------------------------|------------------------|----------------------|-----------|-------------------------|-------------------------|----------------------------|-------------------------|-----------------|------------|-----------------------------|--|---------------------------|
| Appendix III | Boron | 24/24 | 100 | 0.618 | 1.26 | 1.3 | -- | 0.03 | 1.3 | Nonparametric | 0.015 | GOOD |
| | Calcium | 24/24 | 100 | 6.89 | 143 | 140 | -- | 0.3 | 140 | Nonparametric | 0.015 | GOOD |
| | Chloride | 24/24 | 100 | 36 | 118 | 120 | -- | 1 | 120 | Nonparametric | 0.015 | GOOD |
| | Fluoride | 24/24 | 100 | 0.43 | 0.61 | 0.61 | -- | 0.4 | 0.61 | Nonparametric | 0.015 | GOOD |
| | field pH | 24/24 | 100 | 6.54 | 7.22 | 6.5 - 7.3 | -- | -- | 6.5 - 7.3 | Normal | 0.0013 | LOW, GOOD |
| | Sulfate | 24/24 | 100 | 44 | 148 | 150 | -- | 1 | 150 | Nonparametric | 0.015 | GOOD |
| | Total Dissolved Solids | 24/24 | 100 | 356 | 862 | 970 | -- | 10 | 970 | Gamma | 0.0025 | GOOD |
| Appendix IV | Antimony | 0/24 | 0 | ND | ND | 0.006 | 0.006 | 0.0025 | 0.0025 | All NDs | -- | -- |
| | Arsenic | 24/24 | 100 | 0.00786 | 0.128 | 0.13 | 0.01 | 0.005 | 0.13 | Nonparametric | 0.012 | GOOD |
| | Barium | 24/24 | 100 | 0.0368 | 0.11 | 2 | 2 | 0.01 | 0.14 | Lognormal | 0.0019 | GOOD |
| | Beryllium | 0/24 | 0 | ND | ND | 0.004 | 0.004 | 0.001 | 0.001 | All NDs | -- | -- |
| | Cadmium | 0/24 | 0 | ND | ND | 0.005 | 0.005 | 0.001 | 0.001 | All NDs | -- | -- |
| | Chromium | 2/24 | 8.3 | 0.00739 | 0.00744 | 0.1 | 0.1 | 0.005 | 0.0074 | Nonparametric, <50% Detects | 0.012 | GOOD |
| | Cobalt | 24/24 | 100 | 0.00744 | 0.0499 | 0.050 | 0.006 | 0.005 | 0.050 | Nonparametric | 0.012 | GOOD |
| | Fluoride | 24/24 | 100 | 0.43 | 0.61 | 4 | 4 | 0.25 | 0.61 | Nonparametric | 0.012 | GOOD |
| | Lead | 3/24 | 13 | 0.00112 | 0.00288 | 0.015 | 0.015 | 0.001 | 0.0029 | Nonparametric, <50% Detects | 0.012 | GOOD |
| | Lithium | 16/24 | 67 | 0.0107 | 0.022 | 0.04 | 0.04 | 0.01 | 0.022 | Nonparametric | 0.012 | GOOD |
| | Mercury | 0/24 | 0 | ND | ND | 0.002 | 0.002 | 0.0002 | 0.0002 | All NDs | -- | -- |
| | Molybdenum | 16/24 | 67 | 0.0083 | 0.0185 | 0.1 | 0.1 | 0.005 | 0.019 | Nonparametric | 0.012 | GOOD |
| | Selenium | 0/24 | 0 | ND | ND | 0.05 | 0.05 | 0.005 | 0.005 | All NDs | -- | -- |
| | Thallium | 0/24 | 0 | ND | ND | 0.002 | 0.002 | 0.0015 | 0.0015 | All NDs | -- | -- |
| Radium-226 + Radium-228 | 24/24 | 100 | 0.132 | 4.812 | 5 | 5 | 0 | 3.8 | Gamma | 0.0019 | GOOD | |

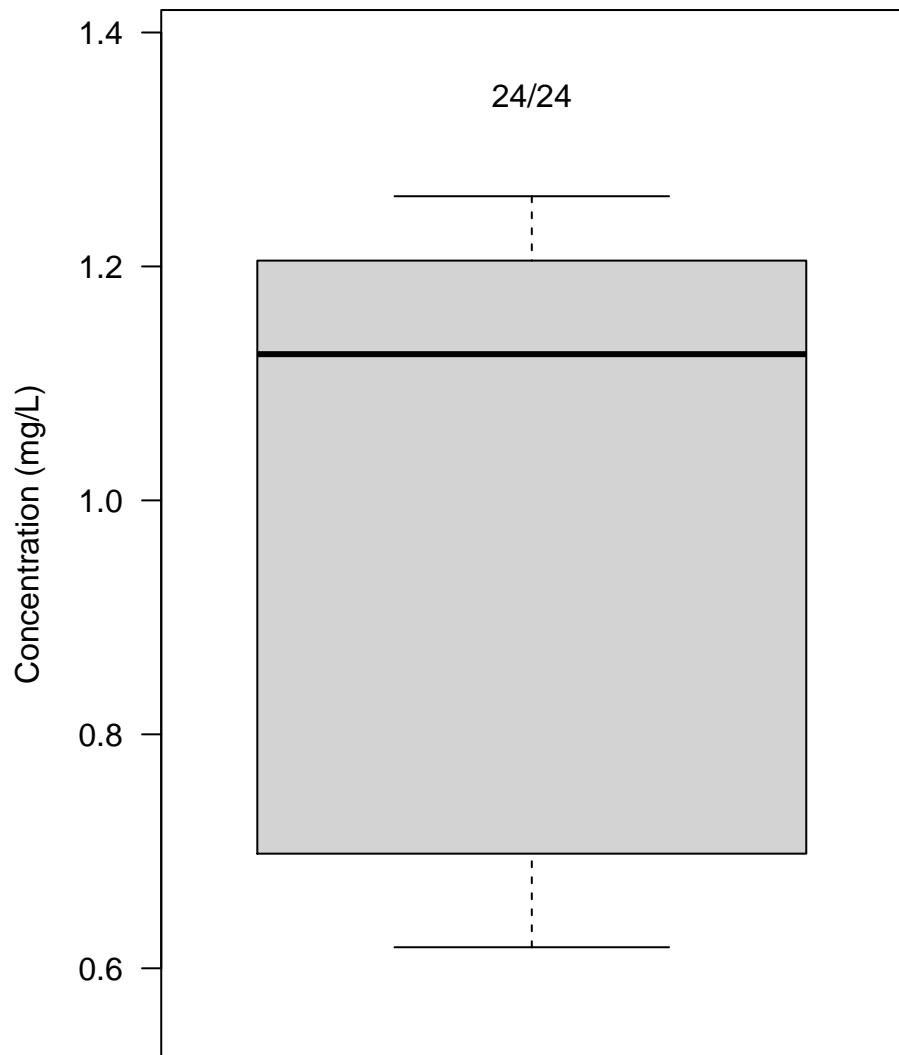
Notes:

1. All concentrations in mg/L, pH in standard units.
2. RSL provided for Cobalt, Lithium, Lead, and Molybdenum.
3. RSL provided for Cobalt, Lithium, Lead, and Molybdenum.

Figures

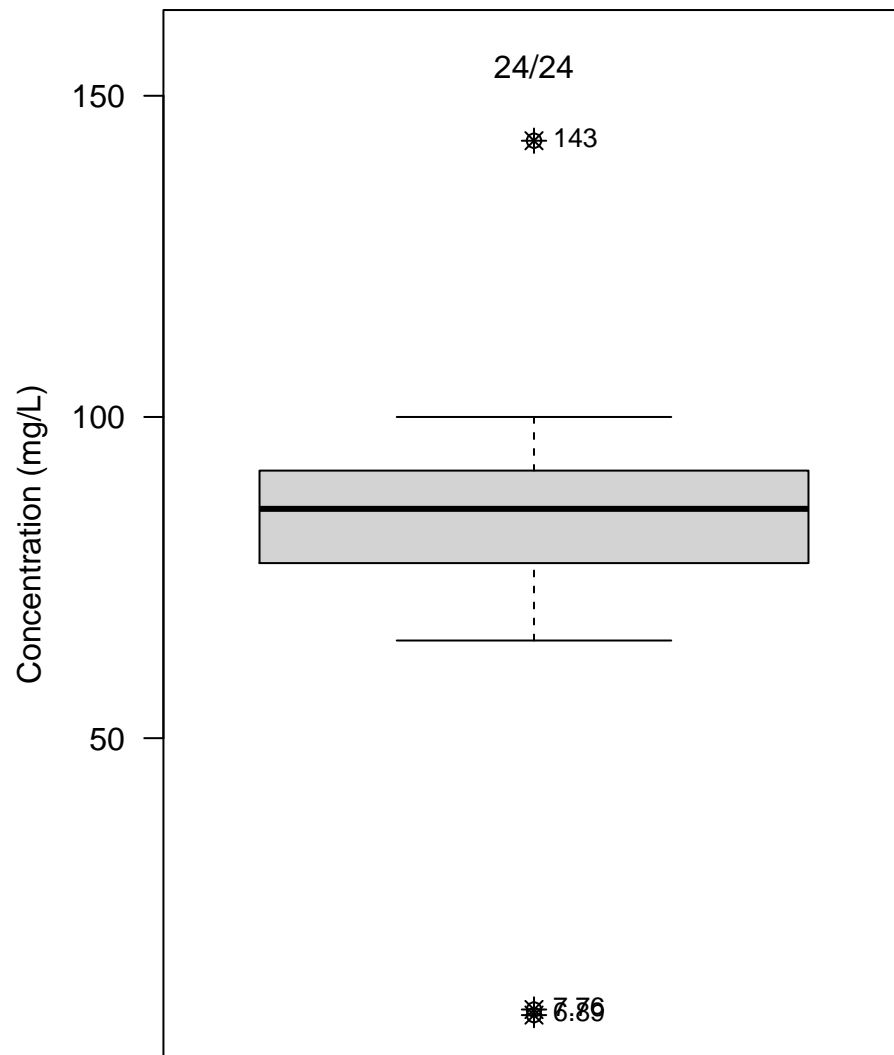
Coletto Creek–Primary Ash Pond

Figure C–1. Appendix III – Boron



Upgradient
BV–21, BV–5, MW–8

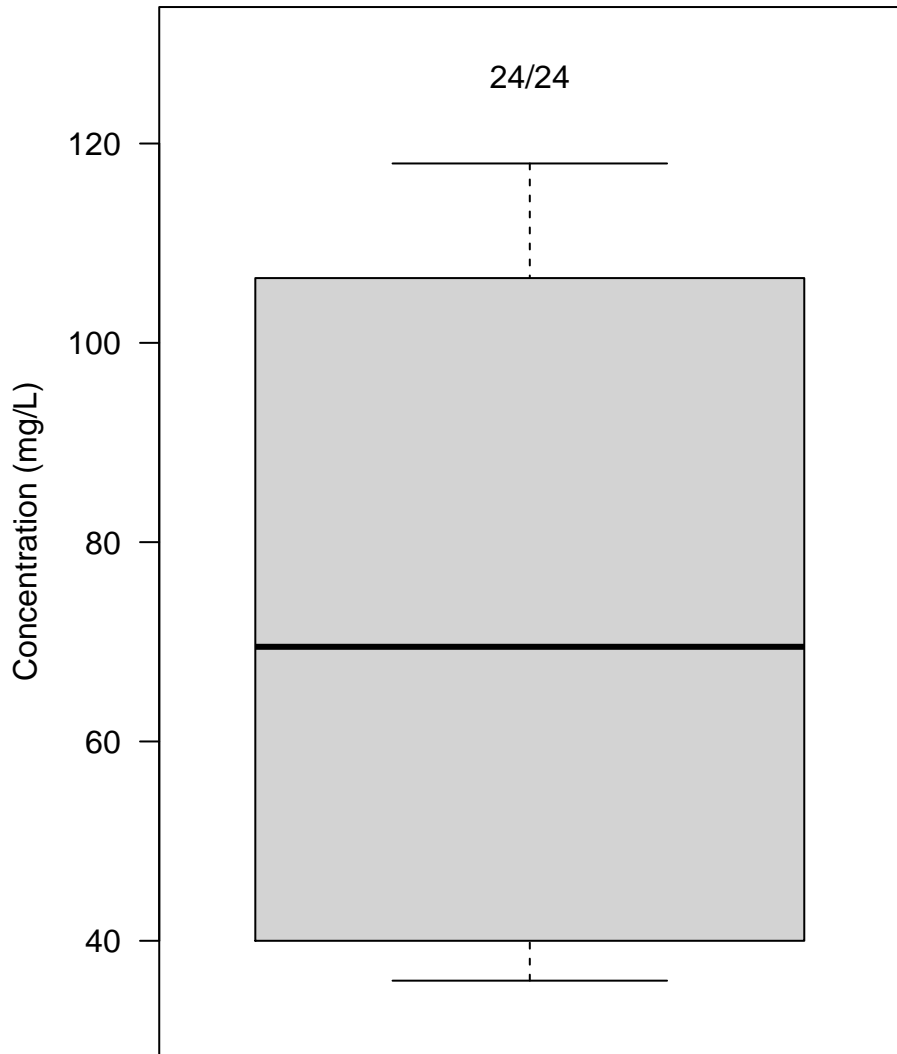
Figure C–2. Appendix III – Calcium



Upgradient
BV–21, BV–5, MW–8

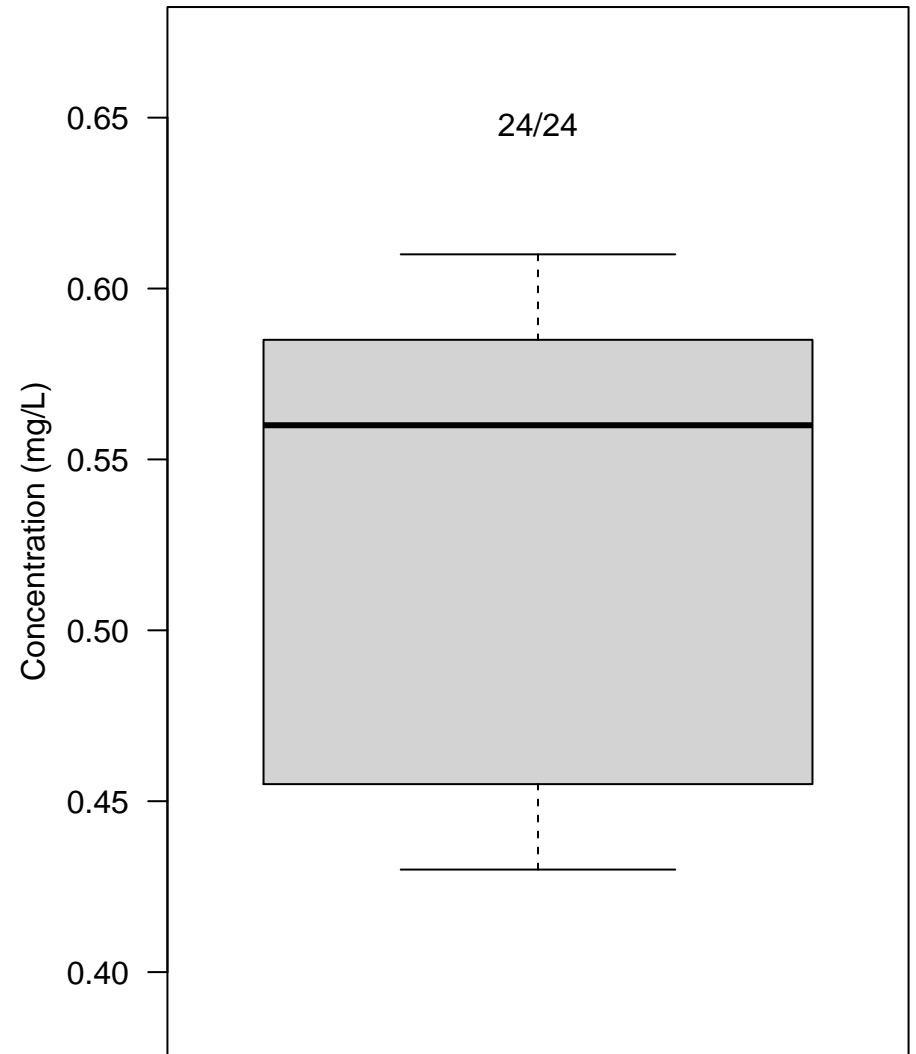
Coletto Creek–Primary Ash Pond

Figure C–3. Appendix III – Chloride



Upgradient
BV-21, BV-5, MW-8

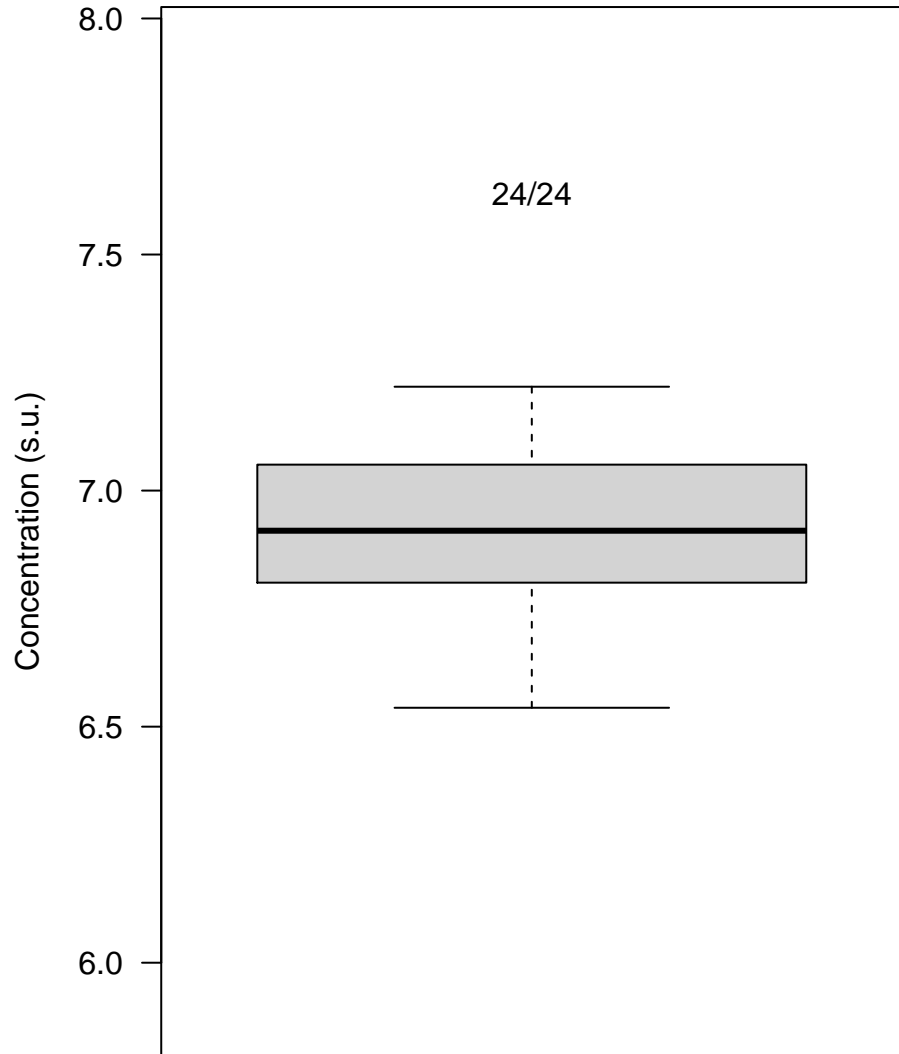
Figure C–4. Appendix III – Fluoride



Upgradient
BV-21, BV-5, MW-8

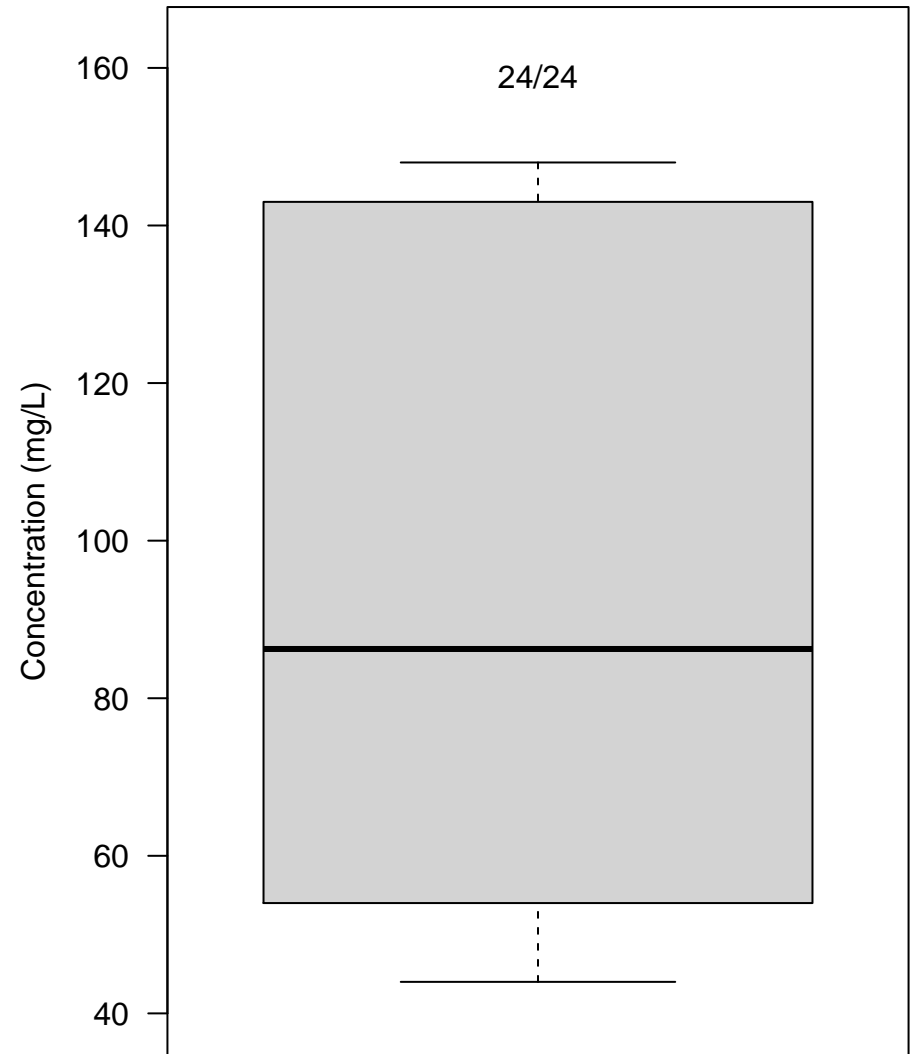
Coletto Creek–Primary Ash Pond

Figure C–5. Appendix III – field pH



Upgradient
BV-21, BV-5, MW-8

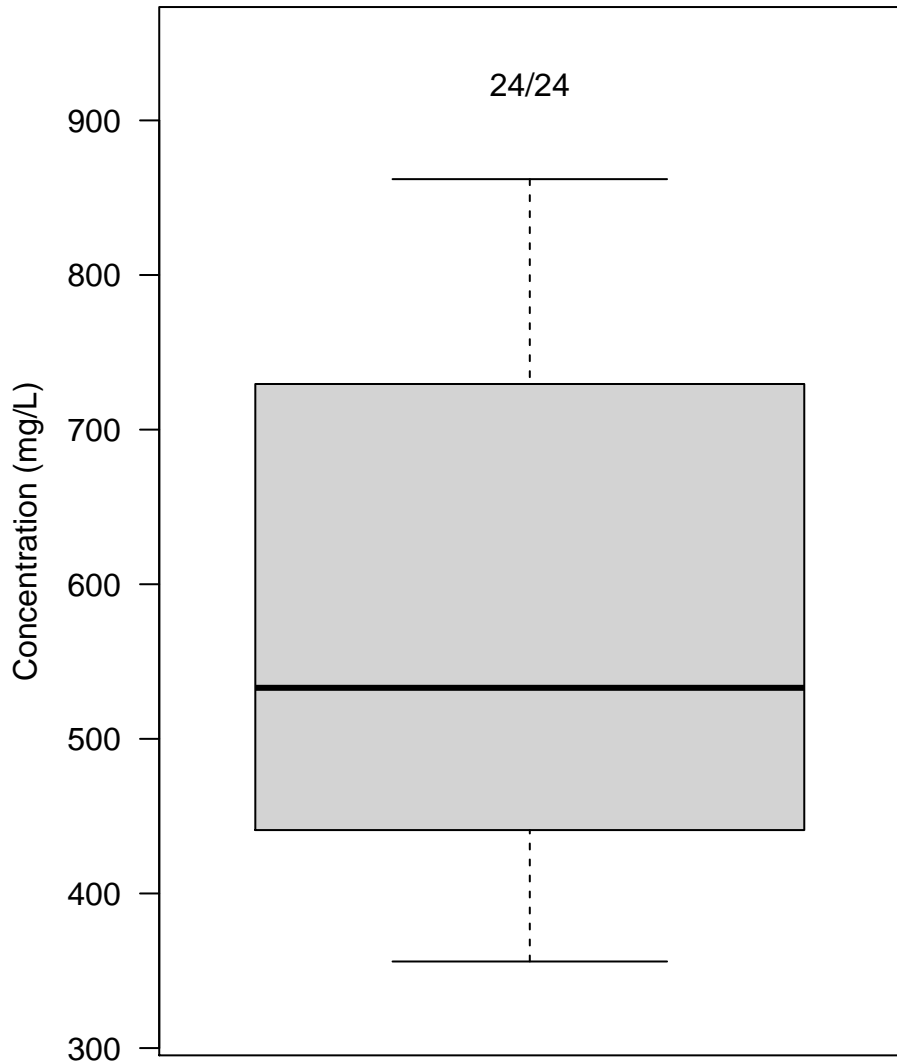
Figure C–6. Appendix III – Sulfate



Upgradient
BV-21, BV-5, MW-8

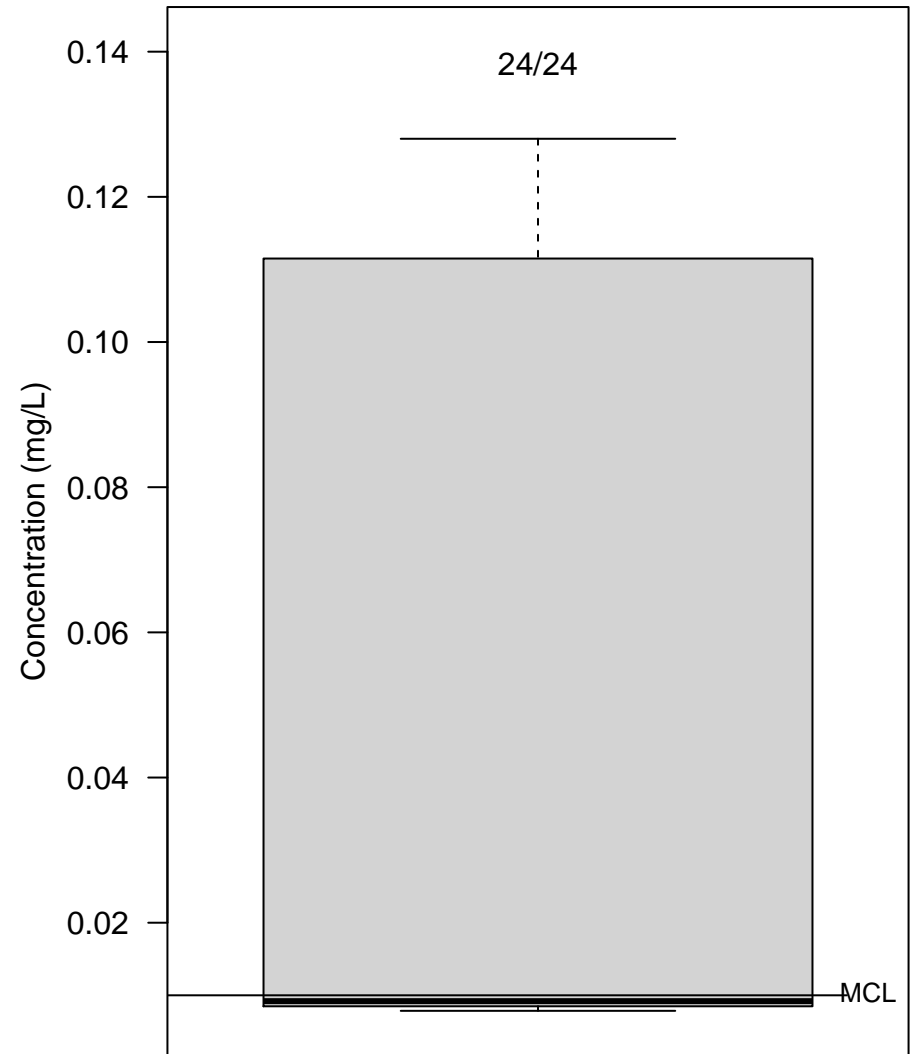
Coletto Creek–Primary Ash Pond

Figure C-7. Appendix III – Total Dissolved Solids



Upgradient
BV-21, BV-5, MW-8

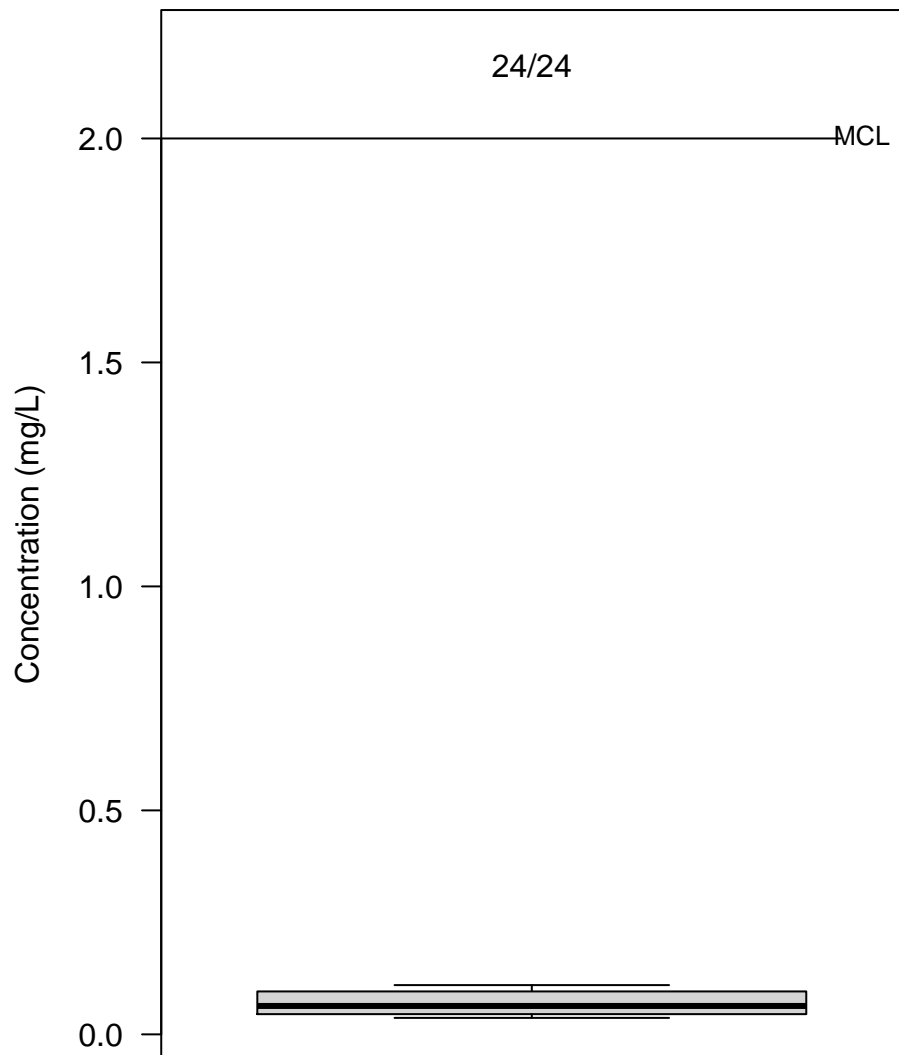
Figure C-8. Appendix IV – Arsenic



Upgradient
BV-21, BV-5, MW-8

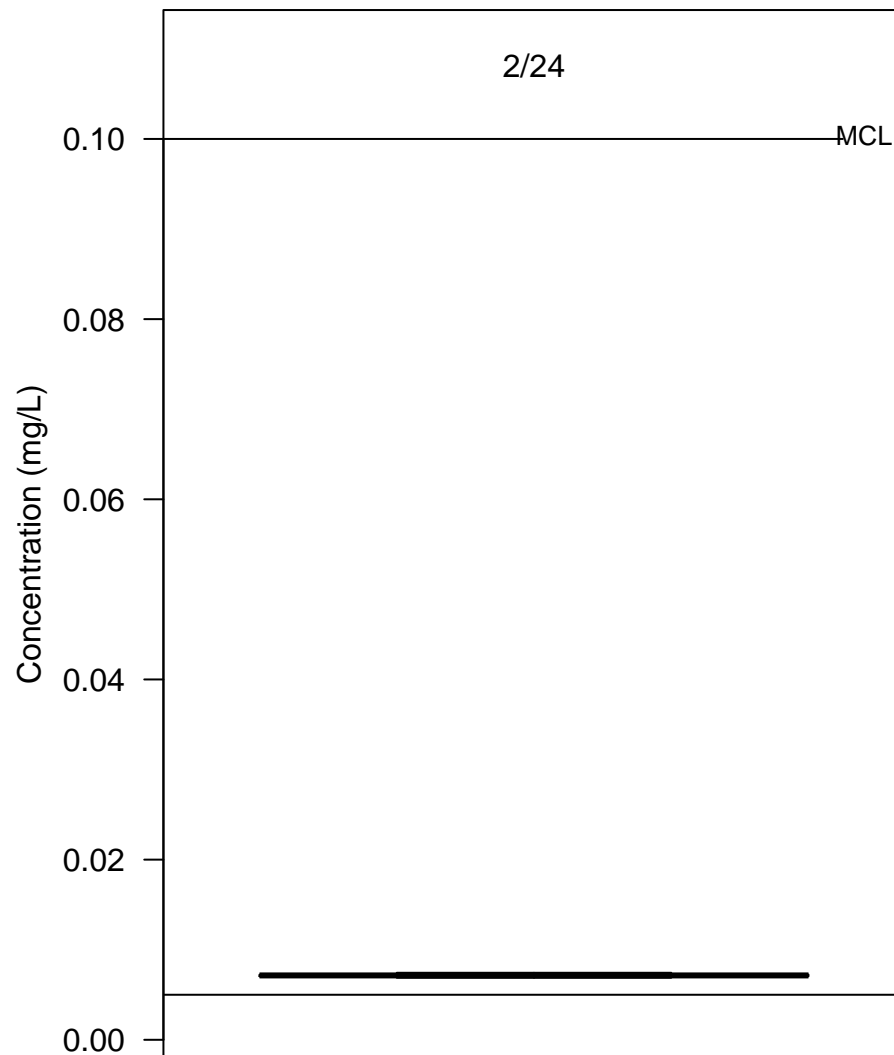
Coletto Creek–Primary Ash Pond

Figure C–9. Appendix IV – Barium



Upgradient
BV-21, BV-5, MW-8

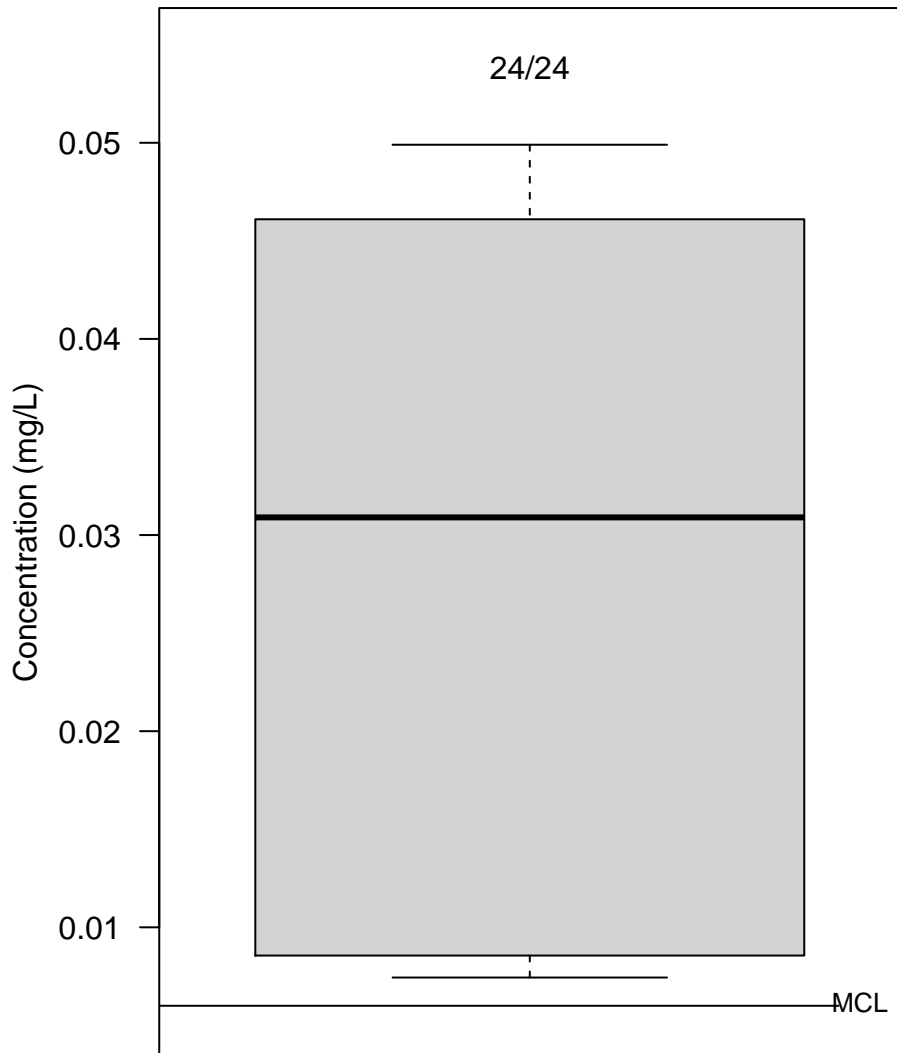
Figure C–10. Appendix IV – Chromium



Upgradient
BV-21, BV-5, MW-8

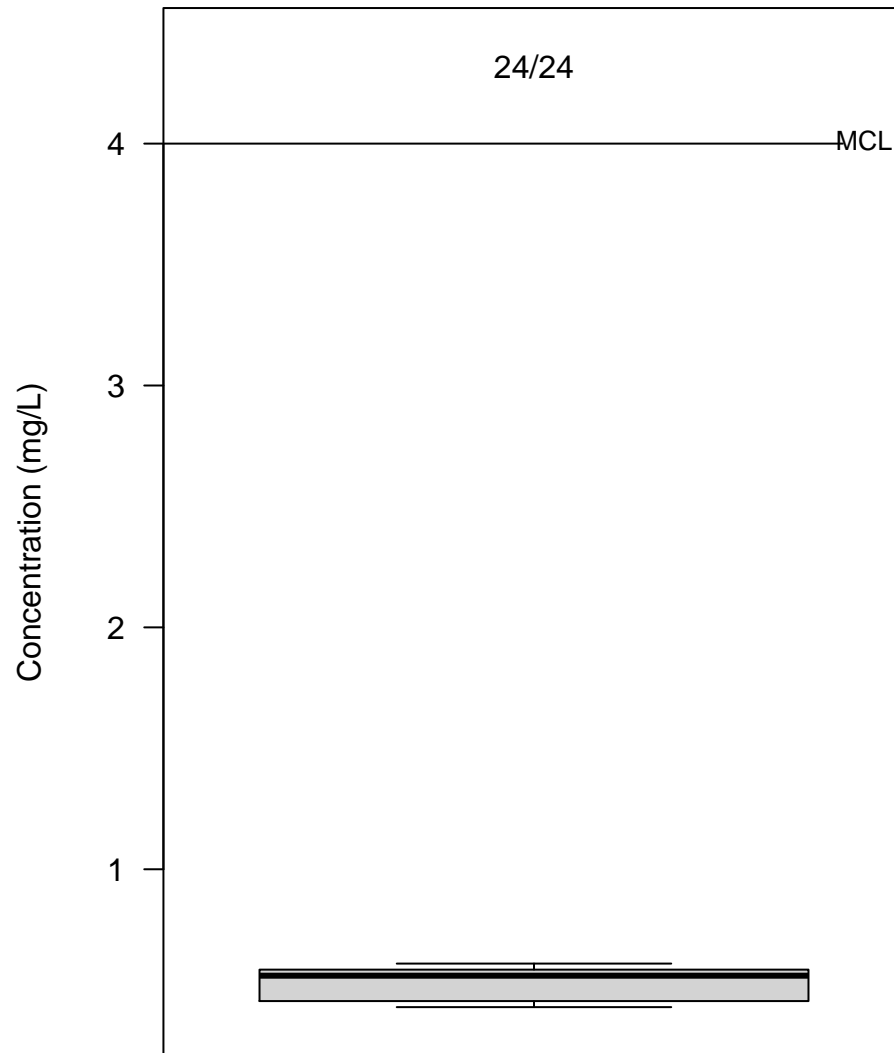
Coletto Creek–Primary Ash Pond

Figure C–11. Appendix IV – Cobalt



Upgradient
BV–21, BV–5, MW–8

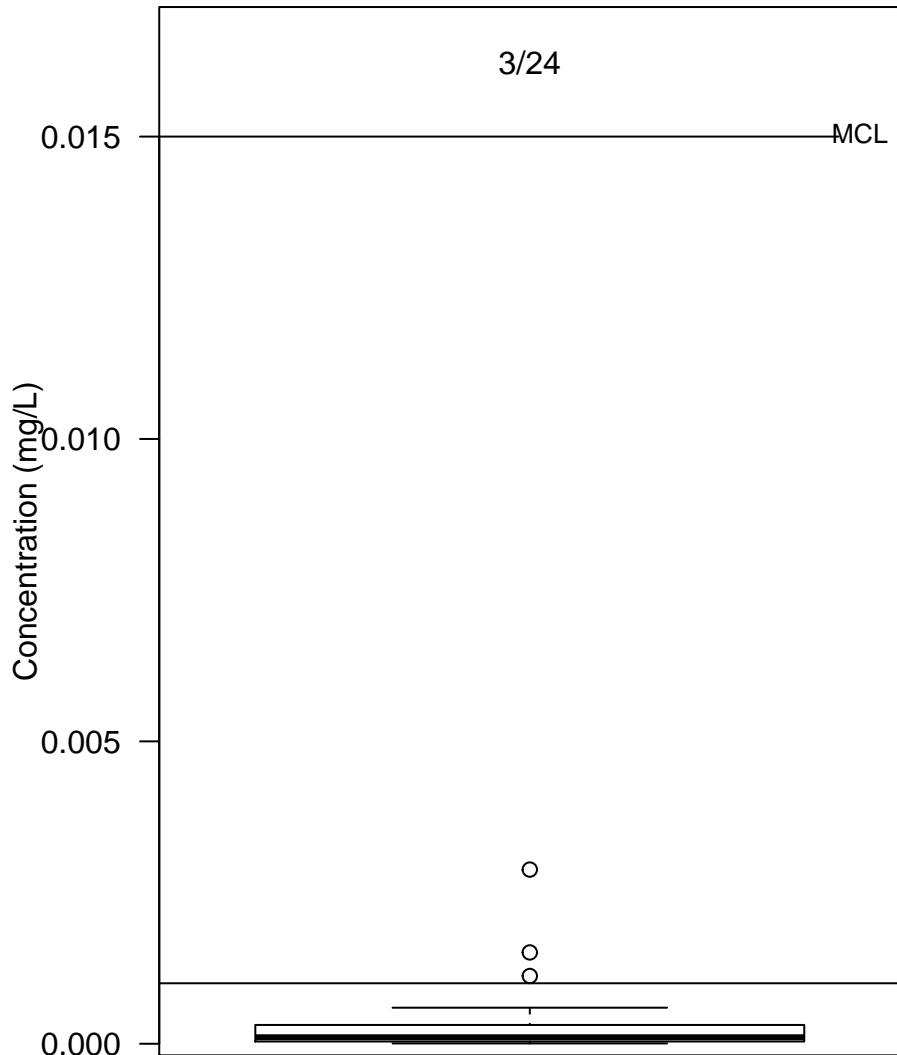
Figure C–12. Appendix IV – Fluoride



Upgradient
BV–21, BV–5, MW–8

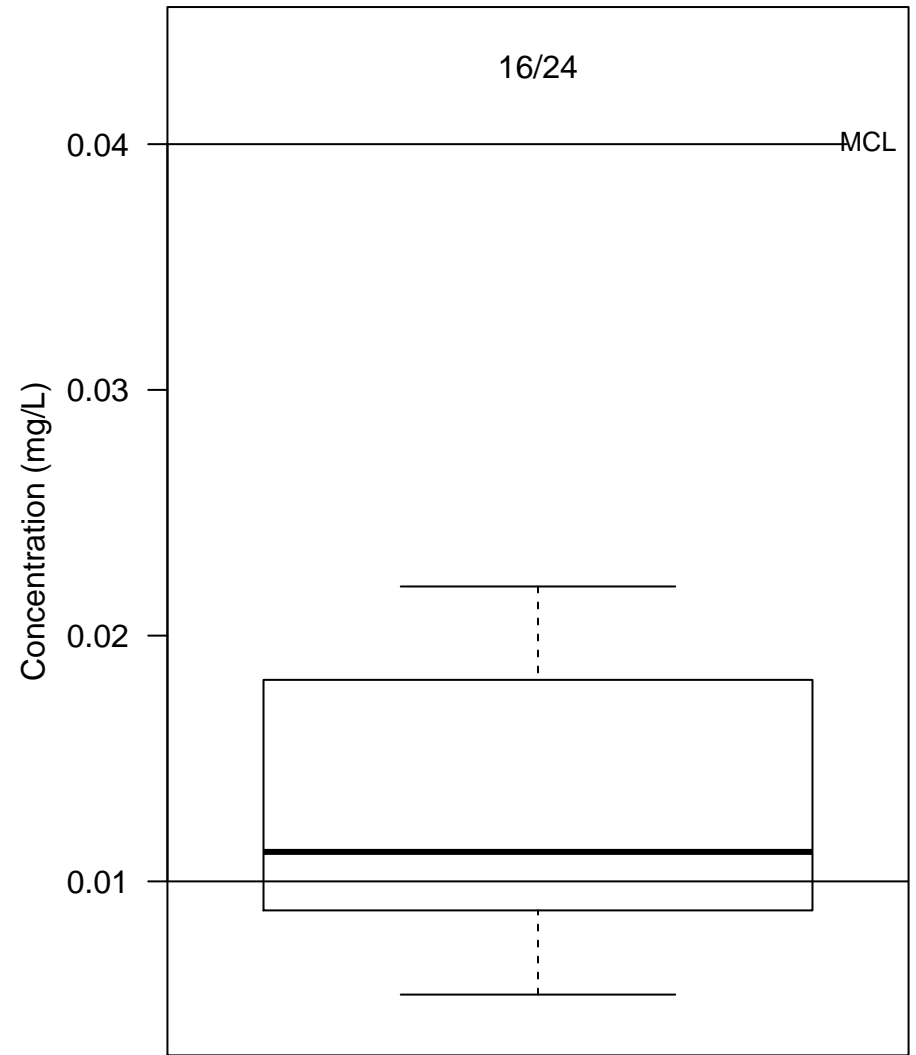
Coletto Creek–Primary Ash Pond

Figure C–13. Appendix IV – Lead



Upgradient
BV–21, BV–5, MW–8

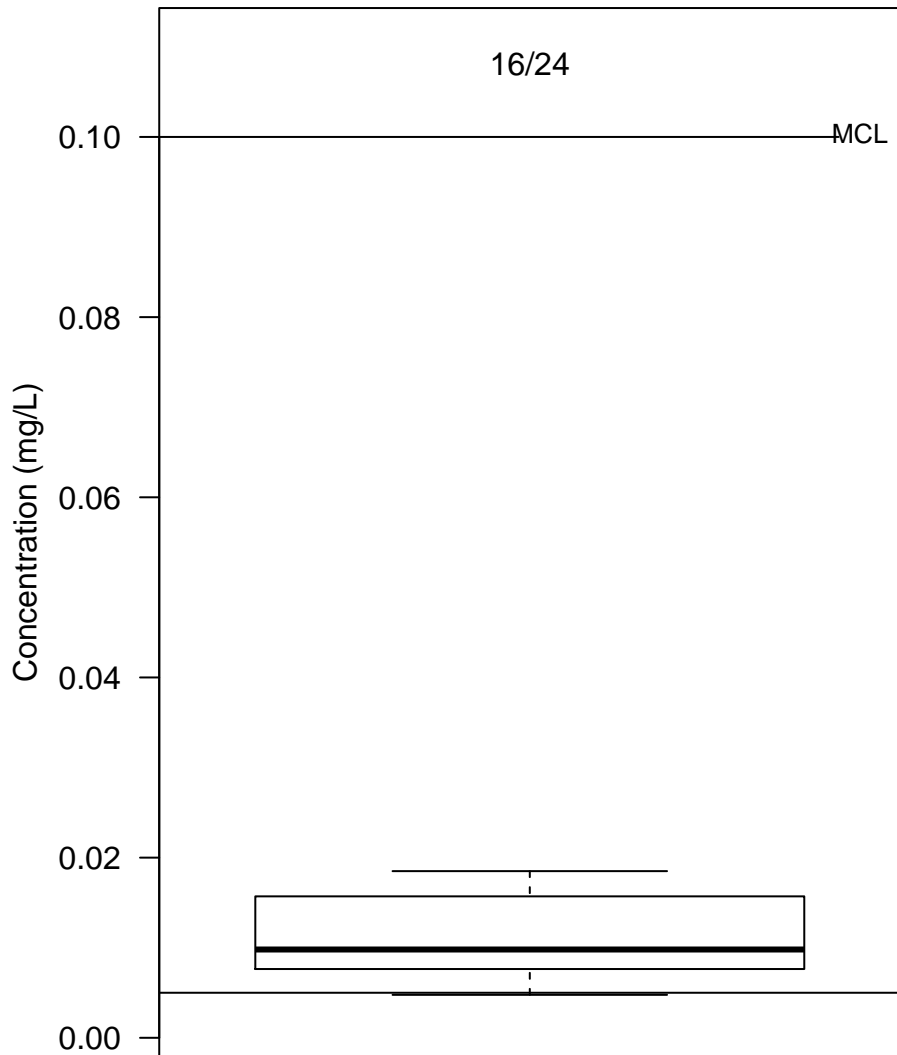
Figure C–14. Appendix IV – Lithium



Upgradient
BV–21, BV–5, MW–8

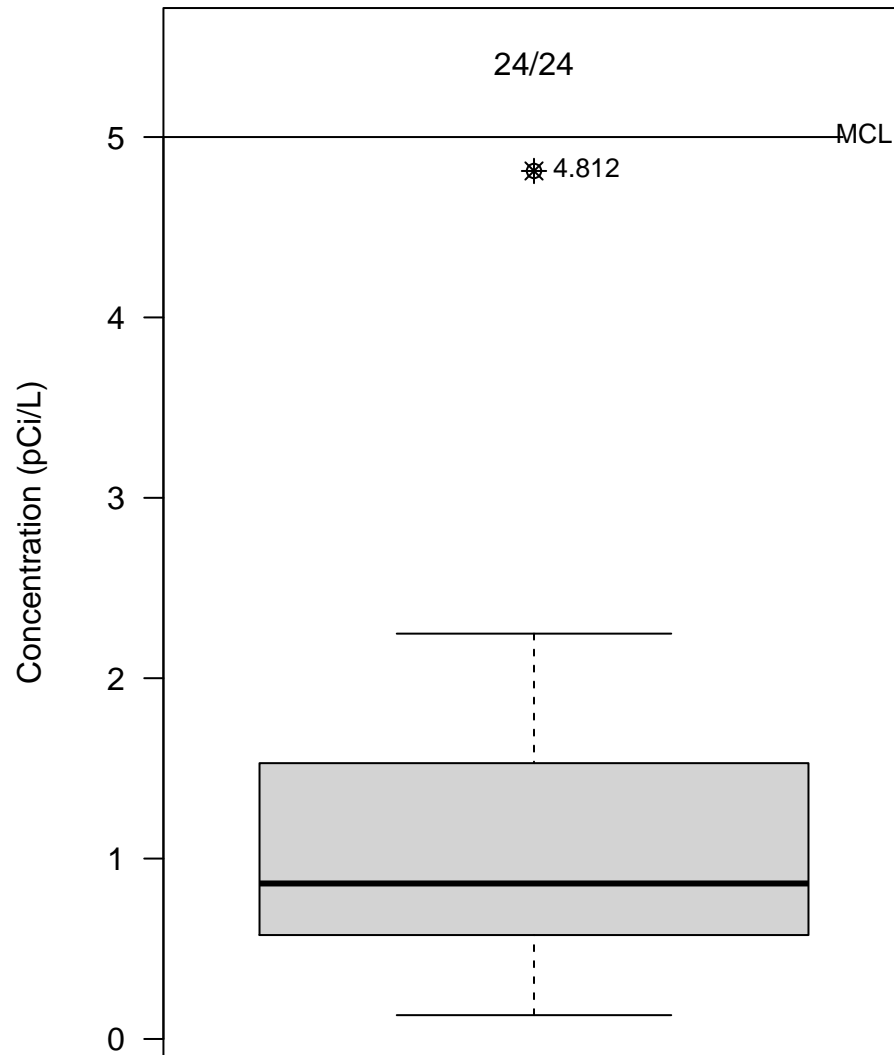
Coletto Creek–Primary Ash Pond

Figure C–15. Appendix IV – Molybdenum

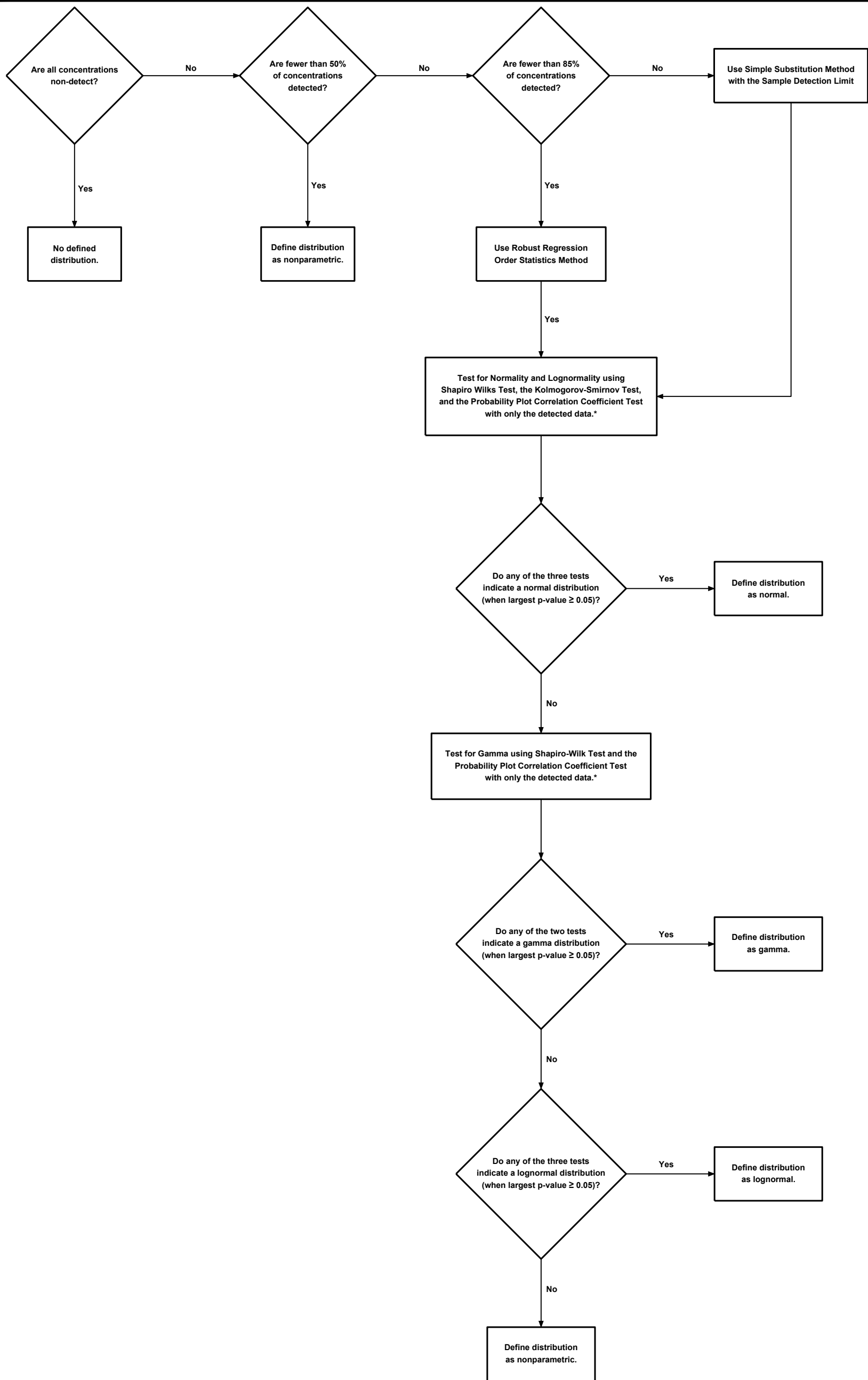


Upgradient
BV–21, BV–5, MW–8

Figure C–16. Appendix IV – Radium–226 + Radium–228



Upgradient
BV–21, BV–5, MW–8



Note:

* - Distributional tests can not be performed for the following cases:

1. For a data group with fewer than five detected samples, the Kolmogorov-Smirnov Test and the Probability Plot Correlation Coefficient Test can not be performed using only the detected concentrations.
2. For a data group with fewer than four detected samples, the Shapiro-Wilks Test can not be performed using only the detected concentrations.

Figure C-17

**PROCESS FOR
DEFINING A DISTRIBUTION
FOR A DATA SET**

**COAL COMBUSTION RESIDUAL RULE
STATISTICAL ANALYSIS PLAN
REVISION NO. 1**

**COLETO CREEK PRIMARY ASH POND
FANNIN COUNTY, TEXAS**

NOVEMBER 16, 2022

Prepared For:

Luminant Generation Company LLC

Prepared By:

Golder Associates USA , Inc.
1601 S. Mopac Expy, Suite 325D
Austin, Texas 78746
Texas Engineering Firm Registration No. 22771

PROFESSIONAL CERTIFICATION

This document and all attachments were prepared by Golder Associates USA, Inc. under my direction or supervision. I hereby certify that the proposed statistical method is appropriate for evaluating groundwater data in accordance with the requirements of Sections 257.93 through 257.95 of the CCR Rule.



Patrick J. Behling, P.E.
Principal Engineer
GOLDER ASSOCIATES USA, INC.



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| 2 | Process for Defining a Distribution for a Data Set |

LIST OF ACRONYMS AND ABBREVIATIONS

| | |
|-------|--|
| ANOVA | analysis of variance |
| CCR | coal combustion residuals |
| EPA | United States Environmental Protection Agency |
| GWPS | groundwater protection standard |
| LCL | lower confidence limit of the mean |
| MCL | maximum contaminant level |
| PPCC | Filliben's probability plot correlation coefficient test |
| RROS | robust regression order statistics |
| SAP | statistical analysis plan |
| SWFPR | site-wide false positive rate |
| UPL | upper prediction limit |

1.0 INTRODUCTION

The United States Environmental Protection Agency (EPA) issued regulations regarding the disposal of coal combustion residuals (CCR) in certain landfills and impoundments in April 2015. These regulations, found under 40 CFR 257, Subpart D and referred to as the “CCR Rule” require facilities to design a groundwater monitoring program to monitor if landfills or impoundments with CCR materials, called CCR units, are impacting downgradient groundwater quality.

Section 257.90 of the CCR Rule requires that all existing CCR landfills and surface impoundments comply with the following groundwater monitoring requirements no later than October 17, 2017:

- Install a groundwater monitoring system as required under Section 257.91;
- Develop a groundwater sampling and analysis program to include selection of the statistical procedures to be used for evaluating groundwater monitoring data as required under Section 257.93;
- Initiate a detection monitoring program to include obtaining a minimum of eight independent samples for each background upgradient and downgradient monitoring well as required under Section 257.94; and
- Begin evaluating the groundwater monitoring data for statistically significant increases over background levels for the constituents listed in Appendix III of this part as required under Section 257.94.

Statistical analysis of groundwater monitoring data is required as part of detection monitoring and assessment monitoring under Section 257.93 of the CCR Rule. Section 257.93 of the CCR Rule provides several options for statistically evaluating groundwater data. The owner or operator of the CCR unit must select one of the statistical methods specified in paragraphs (f)(1) through (5) of Section 257.93 when evaluating constituent concentrations from the groundwater monitoring. EPA’s *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance* (EPA, 2009), also called the “Unified Guidance”, presents acceptable statistical approaches for such evaluations and analyses. However, neither the CCR Rule nor the Unified Guidance outlines a step-by-step process to consistently evaluate groundwater monitoring data in order to satisfy the CCR Rule.

The purpose of this statistical analysis plan (SAP) is to develop a standard set of statistical approaches to follow when demonstrating groundwater compliance for each CCR unit in accordance with the CCR Rule and the Unified Guidance. Depending on the CCR unit and the evaluation of groundwater data for the CCR

unit, CCR groundwater compliance may be evaluated using either an interwell or an intrawell approach—the interwell approach being a comparison of water quality data upgradient of the CCR unit to water quality data downgradient of the CCR unit, and the intrawell approach being a comparison of water quality data of a well against background values established from that well’s own historical water quality data.

This SAP describes and summarizes the statistical approach for establishing and evaluating baseline conditions to use for detection monitoring and assessment monitoring. The plan is designed to detect a release from a CCR facility. The plan conforms with EPA “Unified Guidance Document: Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,” March 2009, and the American Society for Testing and Materials (ASTM) Standard D6312-17, Developing Appropriate Statistical Approaches for Groundwater Detection Monitoring Programs at Waste Disposal Facilities.

2.0 DATA PREPARATION

Analytical data from wells in the groundwater monitoring network at a CCR unit during each sampling event are first reviewed for usability after final data packages are received from the laboratory. The analytical data are then prepared for statistical analysis. Methods for handling duplicate and non-detect data are implemented during this data preparation phase in order to comply with the performance standards outlined in 40 CFR 257.93. During the data preparation, anomalously low or high constituent concentrations are also considered for usability. The following subsections provide further details.

2.1 Handling Duplicate Data

Field duplicates and data rejected after data validation are removed from the data set. Only the primary samples are retained for the statistical evaluation.

2.2 Handling Non-Detect Data

A non-detected constituent concentration is defined as any analytical result that either has an instrument response but is below a sample detection limit or that has no instrument response. A non-detected concentration is handled by using one of two approaches, depending on the percentage of detections in the data set:

- If a data set has at least 85% of samples detected, half of the sample detection limit is substituted as a proxy concentration. In these cases, substituting a proxy concentration will not alter the results of statistical tests or summary statistics (EPA, 2009; EPA, 2000).
- If a data set has at least 50% but no more than 85% of the samples detected, the robust regression order statistics (RROS) method is used to estimate summary statistics such as the mean and standard deviation (EPA, 2009).
- If a data set has fewer than 50% of the samples detected, then nonparametric statistical approaches are used to evaluate the data and to prepare summary statistics (EPA, 2009; EPA, 2000).

It should be noted that J-flagged data (estimated concentrations between the sample detection limit and the reporting limit) are defined as detected concentrations.

2.3 Handling Anomalous Detections

There may be infrequent cases when an anomalously high or low detection cannot be confirmed after resampling a well. In such cases, the anomalous detection should be considered for removal from the data

set and should be replaced by the resampled concentration so that current conditions are not over- or underestimated. This is particularly important when estimating a baseline or background value to use to compare to future constituent concentrations from the network of groundwater monitoring wells. An anomalous detection may be identified at any point after analytical laboratory results are available, based on professional judgment or based on the outlier evaluation (see Section 3.4 for more details about testing for outliers). If an analytical result is removed, documentation should be provided in the annual report stating which analytical result was removed and justifying its removal.

3.0 STATISTICAL ASSUMPTIONS

Before baseline or background values can be established, a number of statistical assumptions are evaluated to determine if concentrations are independent and identically distributed. A sample's constituent concentration is independent when no other sample concentrations influence its measurement, regardless of when or where the sample was collected. Statistical independence is indicated by a set of random data. But randomness is only demonstrated by the presence of mean and variance stationarity and the lack of evidence for effects such as spatial and temporal variation, autocorrelation, and trends (EPA, 2009).

The validity of statistical independence is checked by testing for:

- Spatial stationarity,
- Temporal stationarity,
- Lack of autocorrelation, and
- Lack of statistical data outliers.

For the purpose of this SAP, the statistical software R (The R Foundation, 2017) is assumed to be used to perform the statistical tests used for checking the validity of independent samples. Other applicable programs may be used as necessary.

3.1 Spatial Stationarity

Spatial stationarity is defined as the lack of variability across well locations. Spatial variation may be naturally occurring and unaffected by human activity, or may be caused by human activity. The presence of spatial variability does not necessarily mean that contamination is present. If spatial variability is present, regardless whether it's naturally-occurring or not, it may hinder attempts to identify the cause of a statistically significant increase in constituent concentrations between current and baseline or background conditions (EPA, 2009). In some cases, spatial variability may make upgradient-to-downgradient comparisons (also called interwell comparisons) difficult (EPA, 2009).

One way to identify spatial stationarity is to observe whether spatial variability does or does not exist across multiple wells. This is particularly true when a CCR unit has more than one upgradient well and when interwell comparisons are used for detection or assessment monitoring. Constituent concentrations from each upgradient well are taken as a single data set and then upgradient well data sets are compared. Before establishing baseline or background values for the detection monitoring or assessment monitoring

programs, two steps are taken to check for spatial stationarity for each constituent and groundwater monitoring well (recommended by the Unified Guidance):

1. Side-by-side box plots are created, and
2. The one-way analysis of variance (ANOVA) or Kruskal-Wallis test is used.

Box plots provide a quick screen for possible spatial variation. The ANOVA and Kruskal-Wallis test are more formal tests for identifying spatial variability. All of the statistical tests are performed and the box plots are generated using the statistical software R (The R Foundation, 2017) or similar software.

In some cases, spatial variability, where substantial differences in average constituent concentrations are present among upgradient wells, can make interwell comparisons difficult (EPA, 2009). Professional judgment should be used to determine whether the set of constituent concentrations from all upgradient wells appropriately represent baseline or background conditions and whether the spatial variability will prevent the detection or assessment monitoring from identifying a potential release at a CCR unit. If the spatial variability were to indicate that analytical data from a set of upgradient wells do not appropriately represent background conditions or if the spatial variability were to hinder the detection or assessment monitoring, then the data set should be adjusted accordingly.

3.1.1 Box Plots

A box plot is a graphical representation of the pattern and distribution of concentrations for a single constituent data set. Visually comparing box plots for upgradient well's constituent concentrations, side-by-side, is one way to identify similarities or differences across upgradient well concentrations. If box plots contain similar range of concentrations, then the concentrations for the upgradient wells are similar (spatial stationarity). Likewise, if box plots do not contain similar range of concentrations, then the concentrations for the upgradient wells are different: spatial variability. Section 3.4.1 provides more details about how to create box plots.

3.1.2 ANOVA and Kruskal-Wallis Tests

The ANOVA and Kruskal-Wallis tests are similar statistical tests; both tests indicate significant spatial variability by indicating whether a statistically significant difference exists among average, upgradient well concentrations. The ANOVA is a parametric approach for comparing average concentrations across two

or more wells. The Kruskal-Wallis test is a non-parametric approach to the ANOVA using the ranks of concentrations, rather than using the actual concentration measurements. Neither test can be performed if the variances across upgradient wells are unequal. A Type I error rate (α), or level of significance, is set to $\alpha=0.05$ for identifying a statistical significant different among well averages.

Determining which test to perform, either the ANOVA or Kruskal-Wallis tests, depends upon the frequency of detected results, the validity of assuming normality or lognormality for residuals, and the validity of assuming upgradient wells have equal variances. More details about these dependencies are provided in the subsections below (Sections 3.1.2.1-3.1.2.3). Figure 1 outlines the steps taken to define which statistical test (ANOVA or Kruskal-Wallis) should be used. The method used to determine the appropriate statistical test is based on the Unified Guidance recommendations. Tests of normality and equal variances use a 0.01 level of significance, rather than a 0.05 level of significance, because the ANOVA is reasonably robust to small departures of normality and equal variances (EPA, 2009).

No statistical test is performed when there are no detected concentration measurements in any of the upgradient wells.

If there are at least 85% detected concentrations in every upgradient well, then the ANOVA may be considered. For any non-detected concentration, half of the sample detection limit is used as a proxy concentration (see Section 2.2 for more details). The assumptions of normality and equal variances are checked. To test the normality assumption, residuals are tested using two distributional tests, the Shapiro-Wilk test and Filliben's probability plot correlation coefficient (PPCC) test. The Levene's test is used to check for equal variances. Only when evidence exists that both assumptions are valid is the ANOVA using the raw concentration measurements used. If either assumption is not met, then the assumptions of normality and equal variances are checked using the log-transformed data. Only when evidence exists that both assumptions are valid is the ANOVA using the log-transformed concentration measurements used. If either assumption is not met, then an ANOVA cannot be considered.

If there are fewer than 85% detected concentrations or if the ANOVA cannot be considered, then the Kruskal-Wallis may be considered. Non-detected data are treated differently for the Kruskal-Wallis test since the ranks of the data are used rather than the concentration measurements: all data below the maximum sample detection limit are set to the same value, lower than the maximum sample detection limit (Helsel, 2012). Since the Kruskal-Wallis tests uses ranks of the data, the actual value used for data below the maximum sample detection limit is not relevant. The assumption of equal variances is checked using

the Fligner's test. If the Fligner's test indicates that the assumption of equal variances is valid, then the Kruskal-Wallis test is used. Otherwise, no test can be performed because variances are heterogeneous among upgradient well concentration measurements.

3.2 Temporal Stationarity

Temporal stationarity is the lack of temporal variability. Temporal variability refers to the concept that concentration measurements vary over time. Temporal variability may be present across a group of wells and/or constituents. Temporal variability can also be present at an individual well or for a single constituent. By definition, temporal variability also includes autocorrelation, which is discussed separately in Section 3.3.

Any temporal pattern can invalidate or weaken the results of statistical testing (EPA, 2009). Plotting concentrations over time for a given constituent and for a given well is one way to identify possible trends. The Mann-Kendall trend test is another way to identify possible temporal variation for a given constituent and well. The Mann-Kendall is a nonparametric method to test for an increasing or decreasing linear trend over time. The Mann-Kendall doesn't require any special treatment for non-detects, other than all non-detects should be set to a common value lower than any of the detected concentrations (EPA, 2009 p.8-32). The Mann-Kendall is performed for any set of data with at least one detected concentration.

Before establishing baseline or background values for the detection monitoring or assessment monitoring programs, two steps are taken to check for temporal stationarity for each constituent and groundwater monitoring well:

1. A time plot is created, and
2. The Mann-Kendall trend test is used.

The time plots are generated and the Mann-Kendall trend test is performed using the statistical software R (The R Foundation, 2017) and the EnvStats package (Package 'EnvStats', 2017) or similar software.

Statistically significant increasing or decreasing temporal trends are not expected for any upgradient well since, by definition, an upgradient well should not be impacted by a release at the CCR unit. If, however, there is evidence of a temporal trend, then professional judgment should be used to determine whether constituent concentrations from that upgradient well appropriately represent baseline or background conditions and whether the trend will prevent the detection or assessment monitoring from identifying a

potential release at a CCR unit. If the trend were to indicate that an upgradient well does not appropriately represent baseline or background conditions or if the trend were to hinder the detection or assessment monitoring, then the data set should be adjusted accordingly.

To identify a statistically significant temporal trend, a Type I experiment wise error rate (α) is set to $\alpha = 0.05$. That means, a single test error rate is defined for each well across the detected Appendix III or Appendix IV constituents. Each well's single test error rate is based on the number of detected constituents, d , for a given constituent list. For example, a well with five detected Appendix IV constituents ($d = 5$) has a single test error rate equal to $1 - (1 - \alpha)^{1/d^*} = 1 - (1 - 0.05)^{1/5} = 0.0102$. A statistically significant linear trend is identified when the p-value for the Mann-Kendall test is less than the single test error rate.

3.3 Lack of Autocorrelation

Autocorrelation is the statistical dependence between pairs of constituent concentrations across a sequence of time. That is, pairs of consecutive concentrations will exhibit stronger similarity in concentration measurements than expected from pairs collected at random times (p.6-25, EPA, 2009). To identify autocorrelation, the Unified Guidance recommends using the rank von Neumann ratio test for its ease of use and robustness when applied to either normal or non-normal distributions (p.14-17 EPA, 2009). Since this test has not been designed to handle tied values such as non-detect concentrations, this test is only performed for those wells and constituents with at least 50% detected concentrations.

The rank von Neumann ratio test statistic and associated p-value are computed using the statistical software R (The R Foundation, 2017) and the EnvStats package (Package 'EnvStats', 2017) or similar software.

Before baseline or background values are established for the detection monitoring or assessment monitoring programs, the rank von Neumann ratio test is used. Statistically significant autocorrelation is not expected for any well since, by definition, constituent concentration measurements from a well should be collected with far enough time between sampling events that a more recent sample does not include the same volume of groundwater as any previous sample. If, however, there is evidence of autocorrelation, then professional judgment should be used to determine whether constituent concentrations from a well appropriately represent baseline or background conditions and whether the trend will prevent the detection or assessment monitoring from identifying a potential release at a CCR unit. If the trend were to indicate that a well does not appropriately represent baseline or background conditions or if the trend were to hinder the detection

or assessment monitoring, then the data set should be adjusted accordingly.

To identify a statistically significant autocorrelation, a Type I experiment wise error rate, α , of 0.05 is used for each well across the detected Appendix III or Appendix IV constituents. Each well's single test error rate is based on the number of constituents detected at least 50% of the time, d^* , for a given constituent list. For example, a well with five detected Appendix IV constituents ($d^* = 5$), has a single test error rate equal to $1 - (1 - \alpha)^{1/d^*} = 1 - (1 - 0.05)^{1/5} = 0.0102$. A statistically significant autocorrelation is identified when the p-value for the rank von Neumann test is less than the single test error rate.

3.4 Lack of Statistical Outliers

Based on the Unified Guidance, outliers are “extreme, unusual-looking measurements”. An outlier may be an invalid concentration measurement due to a typographical error, an equipment error, a sampling error, etc. Or an outlier may be a valid concentration measurement that reflects a “...temporary, local ‘hot spot’ of higher concentration” (EPA, 2009). Furthermore, outliers are “measurements (larger or smaller than other data values) that are not representative of the sample population from which they were drawn” (EPA, 2002).

The Unified Guidance recommends testing for outliers to attempt to determine whether a suspect outlier may have been drawn from the same sample population as the rest of the data. “The basic problem with including statistical outliers in analyzing groundwater data is that they do not come from the same distribution as the other measurements in the sample and so fail the identically distributed presumption of most tests” (EPA, 2009).

The consequences of keeping statistical outliers when developing a baseline or background value may lead to an unreasonably high value that will be unable to identify potential releases at a CCR unit. Professional judgment should be used to determine whether to retain or remove any outlier. The Unified Guidance states that outliers generally should not be removed unless some basis for a likely error or discrepancy can be identified. Possible errors or discrepancies include “...values significantly outside the historical ranges of background data” (EPA, 2009). “The decision to discard an outlier should be based on some scientific or quality assurance basis” (EPA, 2000). “A data point should not be eliminated from the background data set simply because it is the highest value that was observed” (EPA, 2002). EPA recommends “...that all data not known to be in error should be considered valid” (EPA, 1989). Furthermore, “[t]he general rule is that a measurement should never be deleted from a data set solely on the basis of an outlier test” (SWDIV,

1999).

Before baseline or background values are established for the detection monitoring or assessment monitoring programs, two steps are taken to check for suspect outliers for each constituent with at least 50% detected concentrations and at each well or set of upgradient wells:

1. A box plot is created to identify suspect outliers, and
2. The Dixon's test or Rosner's test is used.

Possible, or suspect, outliers are identified using a box plot. The statistical outlier tests, the Dixon's test and Rosner's test, are tests to check whether any suspect outlier is a statistical outlier. The box plots are generated and the Dixon's or Rosner's test is performed using the statistical software R (The R Foundation, 2017) or similar software.

3.4.1 Box Plots

Creating a box plot is a visual technique used to identify suspect outliers. Box plots can also demonstrate the pattern and distribution of constituent concentrations for a data set. The size of the vertical box in a box plot indicates where the middle half of the data fall (i.e., the interquartile range, IQR). Concentration measurements that plot further away from the others indicate suspect outliers; for a box plot, these measurements are called mild or extreme outliers (EPA, 2009).

Box plots are constructed to identify two types of suspect outliers: mild and extreme outliers. Suspect outliers are defined in terms of the IQR, represented by the range of the middle half of the data and indicated by the vertical 'box' in a box plot. The IQR is the difference between the upper quartile and the lower quartile of the data. Mild and extreme outliers are identified for small or large sample detected concentration measurements. A high, mild outlier is any detected concentration that exceeds 1.5 times the IQR, but no more than 3 times the IQR, from the upper quartile. A small, mild outlier is any detected concentration that is below 1.5 times the IQR, but no less than 3 times the IQR, from the lower quartile. A high, extreme outlier is any detected concentration greater than 3 times the IQR from the upper quartile. A low, extreme outlier is any detected concentration less than 3 times the IQR from the lower quartile. EPA, 2009 and EPA, 2017 state that mild and extreme outliers should be considered suspect outliers. Computational details for box plots are found in EPA guidance documents (EPA, 2000; EPA, 2009).

3.4.2 Statistical Outlier Tests

A statistical outlier test, either the Dixon's test or Rosner's test, is performed for each data set having at least one suspect outlier in order to determine if the suspect outlier is also a statistical outlier. For a data set with no more than 25 samples, the Dixon's test is used. For a data set with at least 20 samples, the Rosner's test is used. Dixon's test can only test if one detected concentration (i.e., the minimum or the maximum) is a statistical outlier. The Rosner's test can test if one or more detected concentrations are statistical outliers (EPA, 2000; EPA, 2002; EPA, 2009). Computational details for these outlier tests are outlined in EPA documents (EPA, 2000; EPA, 2009). Based on results from the statistical outlier tests, mild and extreme outliers are classified as statistical outliers.

Both statistical outlier tests assume that the data set with the suspect outlier(s) removed is normally distributed (or lognormally distributed if the data are transformed to the natural-log scale). Section 4.1.2 below discusses how to test distributional assumptions of normality or lognormality.

Any extreme, suspect outlier that is also identified as a statistical outlier is evaluated for possible errors or data discrepancies before a baseline or background value is established. Suspect outliers, including those also classified as statistical outliers, should be reviewed for having possible analytical or other quality errors. Professional judgment should be used to determine whether constituent concentrations defined as suspect or statistical outliers should be removed so that baseline or background conditions are properly represented so that detection or assessment monitoring can identify a potential release at a CCR unit. If an outlier does not represent baseline or background conditions or if the outlier hinders the detection or assessment monitoring, then the data set should be adjusted accordingly.

4.0 STATISTICAL APPROACH FOR DETECTION AND ASSESSMENT MONITORING

Section 257.93 of the CCR rule provides several options for statistically evaluating the groundwater data and the performance standards to follow at CCR facilities. At each CCR unit, upper prediction limits (UPLs) are calculated for each detected constituent to establish baseline or background values. To achieve UPLs with sufficient statistical power, the UPLs are designed to include retesting procedures based on the 1-of-2 approach (one assigned sample and one resample—see Section 4.1.3). Using UPLs is one of the preferred methods for comparing groundwater based on the Unified Guidance (EPA, 2009).

UPLs are computed using baseline or background data. The source of the baseline or background data may differ, depending whether interwell or intrawell comparisons are appropriate. “With interwell tests, background is derived from distinct, initially upgradient background wells” (EPA, 2009). “Future data from each of these compliance wells are then tested against this common background. On the other hand, intrawell background [also called baseline] is derived from and represents historical groundwater conditions in each individual compliance well.” (EPA, 2009)

There are several considerations to make when determining whether interwell or intrawell comparisons should be performed. To consider interwell comparisons for a CCR unit, the groundwater monitoring data should meet the statistical assumptions of spatial stationarity, temporal stationarity, lack of autocorrelation, and lack of statistical outliers (see Section 3). Furthermore, the CCR unit should

- have at least one upgradient well,
- have a clearly defined groundwater flow direction without any radial flow, and
- not contain highly variable mine spoil.

If any of these conditions cannot be met or if the statistical assumptions cannot be met, then intrawell comparisons should be considered for a CCR unit. Both Gibbons and EPA’s Unified guidance recommend using intrawell analyses when spatial variability exists. Both Gibbons and the Unified Guidance caution that intrawell analyses are appropriate in the absence of contamination. Since a CCR unit may be an existing landfill or impoundment that is now under the CCR rule, there is a possibility that contamination may be present. Professional judgment should be used for such CCR units to determine if contamination is likely present, and to determine which type of comparison is more appropriate.

4.1 Calculating UPLs

UPLs are estimated with constituent concentrations that are independent and identically distributed, as described in Section 3. The set of data used to calculate UPLs are based on constituent concentrations from the eight background sampling events and from either:

- upgradient wells for the CCR unit (for interwell comparisons), or
- individual compliance well (for intrawell comparisons).

UPLs must be calculated using a single-test error rate that accounts for the site-wide false positive rate (SWFPR) associated with all of the detection or assessment monitoring comparisons. The SWFPR is set based on the Unified Guidance recommendations and is discussed in more detail in Section 4.1.1.

After assumptions have been checked and outliers have been identified for the appropriate set of data, the data distribution is defined in accordance with EPA guidance (EPA, 2000; EPA, 2002; EPA, 2009; EPA, 2017; SWDIV, 1998). UPLs are then calculated based on the defined data distribution. Distributions are defined using the methodology outlined in Section 4.1.2, and the UPLs are calculated using the methodology described in Section 4.1.3.

The statistical software R (The R Foundation, 2017) or similar software is used to perform all statistical distribution tests and to calculate UPLs.

4.1.1 Defining Single-test error rate

Based on 40 CFR 257.93 (g)(2) and the Unified Guidance, the cumulative SWFPR or Type I experiment wise error rate for yearly monitoring shall be no more than 0.10. That means, a single test error rate must be considerably lower than 0.10. The single test error rate depends on the number of detected constituents and number of compliance wells evaluated in a CCR unit's monitoring program, defined as:

$$1 - (1 - \alpha)^{1/cw}, \text{ where:}$$

- $\alpha=0.10$, the SWFPR;
- c =the number detected constituents for the monitoring program (the Appendix III constituents for detection monitoring or Appendix IV constituents for assessment monitoring); and
- w =the number of compliance wells at the CCR unit.

Sampling frequency is not included in this single-test error rate because UPL calculations are designed to account for the number of sampling events per year.

4.1.2 Defining a Distribution for Background

The type of UPL calculated is based on a data set's defined distribution. Figure 2 outlines the steps to take to define whether a data set follows a normal, gamma, lognormal, or nonparametric distribution. If there are no detections for a data set, no distribution is defined. For a constituent with fewer than 50% detected concentrations, the distribution is defined as nonparametric (EPA, 2000; EPA, 2009).

For each data set with at least 50% detected concentrations and at least 4 samples, the data's distribution is tested using up to three distributional tests, which include the Shapiro-Wilk test, Kolmogorov-Smirnov test, and PPCC test. A test for the gamma distribution is included because EPA, 2017 generally recommends using summary statistics from a gamma distribution before using statistics from a lognormal distribution when both the gamma and lognormal distributional assumptions are valid. All of these distributional tests are recommended by EPA (EPA, 2000; EPA, 2002; EPA, 2009; EPA, 2017). Each distributional test is performed with only the detected data, which reflects how ProUCL performs distributional tests (EPA, 2017).

The method used to define a distribution, using the largest p-value from all of the appropriate tests and comparing it to a 0.05 level of significance, is designed to follow ProUCL's distributional recommendations. It should be noted that for a data set with fewer than five detected samples, the Kolmogorov-Smirnov test and the PPCC test cannot be performed. And, the Kolmogorov-Smirnov test is not used to test for gamma distributions.

If results from any of these three tests indicate the data are normally distributed (when the largest p-value is greater than 0.05), the distribution is defined as normal. If none of the test results indicate normality, the detected data set is tested for the gamma distribution by running the Shapiro-Wilk and PPCC tests. If either test indicates the data set follow a gamma distribution (when the larger p-value is greater than 0.05), the

distribution is defined as a gamma distribution. If none of the test results indicate a gamma distribution, the data set is tested for lognormality by running the Shapiro-Wilk, Kolmogorov-Smirnov, and PPCC tests with the log-transformed detected data. If results from any of these tests indicate the data set is lognormally distributed (when the largest p-value is greater than 0.05), the distribution is defined as lognormal. If none of the distributional test results indicate normality, a gamma distribution, or lognormality, the data's distribution is defined as nonparametric.

4.1.3 Calculating UPLs

UPLs are calculated using a 1-of-2 retesting strategy to ensure comparisons are statistically powerful and to minimize the SWFPR. A 1-of-2 retesting strategy means that if one or more constituent concentrations in a compliance well are above their respective background concentration, a resample is collected to validate or invalidate the background concentration exceedance. According to the Unified Guidance, “A 1-of- m retesting plan implies that up to m groundwater measurements may have to be collected at each compliance well, including the initial observation and $(m-1)$ possible resamples. For the test to be valid, all of these sample measurements need to be statistically independent” (EPA, 2009). An independent resample may be collected between sampling events if necessary.

The Unified Guidance defines when a well is in-compliance and out-of-compliance: “If the initial groundwater observation is in-bounds [in compliance with the designed standard], the test is complete and no resamples need to be collected. Only when the first concentration exceeds the UPL, does additional sampling come into play” (EPA, 2009). If all m samples (the initial sample plus $m-1$ resamples) exceed, then the well is considered out-of-compliance. If none of the $(m-1)$ resamples exceed after the initial sample exceeded, then the well can still be considered to be in-compliance (EPA, 2009).

The type of UPL computed (e.g., parametric or nonparametric) is based on the detection frequency and the defined data distribution for each data set, as described in Section 4.1.2. For a constituent with no detected concentration measurements in the baseline or background data, the UPL is set to the reporting limit (EPA, 2009). For a constituent with at least 50% detections, the UPL calculation adjusts for non-detected concentration(s) as described in Section 2.2, and the appropriate UPL calculation is used based on results from the distributional tests. If no parametric distribution (normal, lognormal, or gamma) can be defined for a data set, then a nonparametric UPL is estimated. Since J-flagged data are defined as detected, a calculated UPL may be less than the reporting limit; in such cases, the UPL is set to the reporting limit.

4.2 Establishing Background Values

Background values used for detection monitoring or assessment monitoring are based on UPLs. For detection monitoring (Appendix III constituents), background values are defined as the higher of the UPL and reporting limit. For assessment monitoring (Appendix IV constituents) background values are defined as the highest of the maximum concentration level (MCL), UPL, reporting limit, or other accepted screening level for constituents without MCLs. The reporting limit is included so that a constituent having an UPL below the reporting limit does not have an unfair limitation because most or all of the baseline or background constituent concentrations are below the reporting limit. For each CCR unit, tables of statistically-derived background values will be prepared for each Appendix III and Appendix IV constituent. For interwell comparisons, background values will be developed using upgradient well data. For intrawell comparisons, background values will be developed for each monitoring well using historical data from the well.

4.3 Updating Background Values

As detection or assessment monitoring continues, it is recommended to update baseline or background data sets periodically with valid monitoring concentrations that are representative of groundwater unimpacted by leakage from the CCR unit. The Unified Guidance recommends reviewing and possibly updating background values when enough new concentrations have been collected to perform statistical comparisons. That means, background values should be reviewed about every two or three years during. Failure to update background will exclude factors such as natural temporal variation, changes in field or laboratory methodologies, and changes in the water table due to meteorological conditions or other influences.

5.0 DETECTION MONITORING DATA EVALUATION

Detection monitoring will be performed at each CCR unit's groundwater monitoring system on a semi-annual basis during the active life of the CCR unit and during the post-closure period. Each CCR monitoring well will be sampled for the following Appendix III constituents as part of the detection monitoring program:

- Boron
- Calcium
- Chloride
- Fluoride
- field-measured pH
- Sulfate
- Total Dissolved Solids (TDS)

After every detection monitoring event, the constituent concentrations from each well will be compared to the background values, as described in Section 3 of this plan, to ascertain if a statistically significant increase above background exists. Possible outcomes from comparing the detection monitoring constituent concentrations in each well to their respective background values are as follows:

- All detection monitoring constituent concentrations in a compliance well are less than or equal to their respective background values; or
- One or more detection monitoring constituent concentrations in a compliance well are above their respective background values.

5.1 No Statistically Significant Increase over Background Values

Baseline and background UPLs are based on a 1-of-2 resampling approach, meaning that if zero or one concentration measurements from a series of two independent samples collected from a well do not exceed the appropriate UPL, then a statistically significant increase over baseline or background has not occurred at a CCR unit. This conclusion will be reached if the data indicate either of the following:

- All detection monitoring constituent concentrations in a compliance well are less than or equal to their respective background values; or
- At least one detection monitoring constituent concentration in a well is above the respective background value. If this occurs, the well or wells with constituent concentration(s) above the background value(s) will be resampled and analyzed for the detection monitoring constituent(s) with exceedances. If the resample indicates that the target detection monitoring constituent concentration(s) in the well or wells is less than or equal to their respective background value(s),

then it can be concluded that a statistically significant increase over background for all detection monitoring constituents has not occurred, since concentrations in one sample of the two independent samples do not exceed the appropriate baseline or background value(s).

If the groundwater monitoring data indicates that a statistically significant increase over background has not occurred at the CCR wells, then detection monitoring at all CCR wells will continue on a semi-annual basis.

5.2 Statistically Significant Increase over Background Values

If one or more detection monitoring constituent concentrations in any well is above the respective background value in both the original detection monitoring sample and the resample, then a statistically significant increase over background for the target detection monitoring constituents can be concluded. If a statistically significant increase is indicated, within 90 days Luminant will:

- Establish an assessment monitoring program as described in this plan, or
- Demonstrate that a source other than the CCR unit caused the statistically significant increase over the baseline or background value for a constituent, or that the statistically significant increase resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality. If a successful demonstration is completed within the 90-day period, the owner or operator of the CCR unit may continue with the detection monitoring program.

6.0 ASSESSMENT MONITORING DATA EVALUATION

Assessment monitoring will be performed at a CCR unit's groundwater monitoring system after a statistically significant increase over background values has been confirmed in that well for one or more of the detection monitoring constituents. Within 90 days of triggering the assessment monitoring program, and annually thereafter, each CCR monitoring well requiring assessment monitoring will be sampled for the following Appendix IV parameters as part of the assessment monitoring program:

- Antimony
- Arsenic
- Barium
- Beryllium
- Cadmium
- Chromium
- Cobalt
- Fluoride
- Lead
- Lithium
- Mercury
- Molybdenum
- Selenium
- Thallium
- Radium 226 and 228 combined

Within 90 days of obtaining the results from the initial assessment monitoring sampling event, all wells in a CCR unit's groundwater monitoring system will be resampled and analyzed for:

- All Appendix III detection monitoring parameters; and
- The Appendix IV assessment monitoring parameters that were detected as part of the assessment monitoring event.

This monitoring will be performed on at least an annual basis thereafter, unless Luminant can demonstrate the need for an alternative monitoring frequency for repeated sampling and analysis for these constituents during the active life and the post-closure care period based on the availability of groundwater.

Within 90 days of obtaining the results from the initial assessment monitoring sampling event, a GWPS will be established for each of the Appendix IV assessment monitoring constituents that were detected in the groundwater monitoring system wells as follows:

- For constituents for which an MCL has been established, the highest of the MCL, UPL, and reporting limit for that constituent; or

- For constituents for which an MCL has not been established, the higher of the UPL, reporting limit, or levels that are equivalent to specified regional screening level (RSL) for that constituent (note: future revisions to the Rule may allow additional flexibility in establishing GWPS for states with EPA-approved CCR permit programs for Appendix IV constituents that do not have a MCL).

Each assessment monitoring constituent will be evaluated to ascertain if a statistically significant increase above the GWPS exists. Possible outcomes are as follows:

- All averages from assessment monitoring constituent concentrations at a well are not statistically greater than to their respective GWPS; or
- One or more averages from assessment monitoring constituent concentrations at a well are statistically greater than their respective GWPS.

6.1 Calculating LCLs

For each assessment monitoring constituent, the 95% lower confidence limit of the mean (LCL) is estimated. The set of data used to calculate LCLs are based on the constituent concentrations from the current year's sampling events and enough previous sampling events to reasonably estimate each LCL (the goal should be to have around eight to ten samples).

LCLs are calculated based on the defined data distribution. The data distribution is defined in accordance with EPA guidance (EPA, 2000; EPA, 2002; EPA, 2009; EPA, 2017; SWDIV, 1998). Distributions are defined using the methodology outlined in Section 6.1.1. The LCLs are calculated using the methodology described in Section 6.1.2.

The statistical software R (The R Foundation, 2017) or similar software is used to perform all statistical distribution tests and to calculate LCLs.

6.1.1 Defining a Distribution for LCLs

The type of LCL calculated is based on a data set's defined distribution. The same methodology for defining a distribution for background, described in Section 4.1.2 and outlined in Figure 2, is used to define the distribution for each assessment monitoring constituent data set as normal, gamma, lognormal, or nonparametric.

6.1.2 Calculating LCLs

The type of LCL computed (e.g., parametric or nonparametric) is based on the detection frequency and the defined data distribution for each data set, as described in Section 6.1.1. For a constituent with no detected concentration measurements, the LCL is set to the reporting limit (EPA, 2009). For a constituent with at least 50% detections, the LCL calculation adjusts for non-detected concentration(s) as described in Section 2.2, and the appropriate LCL calculation is used based on results from the distributional tests. If no parametric distribution (normal, lognormal, or gamma) can be defined for a data set or there are fewer than 50% detections, then a nonparametric, approximate 95% lower confidence limit of the median is estimated.

6.2 No Statistically Significant Increase Over GWPS

A statistically significant increase over the groundwater protection standard has not occurred at a CCR unit when the LCL for every assessment monitoring constituent at a well is less than or equal to the appropriate GWPS.

Assessment monitoring will continue on an annual basis. If for two consecutive assessment monitoring sampling events, the constituent concentrations for all Appendix III constituents are at or below background values and all Appendix IV constituents are shown to be statistically at or below their appropriate GWPS, then assessment monitoring will be terminated and detection monitoring as described in this plan will resume. If the constituent concentrations of any Appendix III constituents are shown to be statistically above background values, but all Appendix IV constituents have no statistically significant increase over their respective GWPS, then assessment monitoring will continue.

6.3 Statistically Significant Increase Over GWPS

A statistically significant increase over the groundwater protection standard has occurred at a CCR unit when the LCL for at least one assessment monitoring constituent at a well is greater than the appropriate GWPS. If a statistically significant increase over groundwater protection standards for any Appendix IV assessment monitoring constituent is confirmed, within 90 days of the initial assessment monitoring event, Luminant will either:

- Initiate an assessment of corrective measures for the CCR unit in accordance with CCR Rule Section 257.96; or
- Demonstrate that a source other than the CCR unit caused the contamination, or that the statistically

significant increase resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality. If a successful demonstration is made, the owner or operator must continue assessment monitoring. If a successful demonstration has not been made at the end of the 90 day period, the owner or operator of the CCR unit must initiate an assessment of corrective measures for the CCR unit.

If one or more Appendix IV assessment monitoring constituent concentrations are statistically above the respective groundwater protection standards, and if a source other than the CCR unit cannot be demonstrated to have caused the contamination, a release from the CCR unit is likely and the nature and extent of the release will be further characterized as follows:

- Install additional monitoring wells necessary to define the contaminant plume(s);
- Collect data on the nature and estimated quantity of material released including specific information on the Appendix IV assessment monitoring constituents and the levels at which they are present in the material released;
- Install at least one additional monitoring well at the facility boundary in the direction of contaminant migration and sample this well for all Appendix III detection monitoring parameters and for those Appendix IV assessment monitoring constituents that have been detected as part of assessment monitoring. This monitoring must be performed on at least an annual basis thereafter.
- Sample all CCR unit wells for all Appendix III detection monitoring parameters and for those Appendix IV assessment monitoring constituents that have been detected as part of assessment monitoring. This monitoring must be performed on at least an annual basis thereafter.

7.0 REPORTING REQUIREMENTS

The results of the CCR groundwater monitoring program performed at each CCR unit will be reported yearly in an Annual Groundwater Monitoring and Corrective Action Report. A separate annual report for each CCR unit will document the status of the groundwater monitoring and corrective action program, summarize key actions completed, describe any problems encountered, discuss actions to resolve the problems, and project key activities for the upcoming year. At a minimum, the Annual Groundwater Monitoring and Corrective Action Report will contain the following information:

- A map, aerial image, or diagram showing the CCR unit and all background (or upgradient) and downgradient monitoring wells, to include the well identification numbers, that are part of the groundwater monitoring program for the CCR unit;
- Identification of any monitoring wells that were installed or decommissioned during the preceding year, along with a narrative description of why those actions were taken;
- In addition to all the monitoring data obtained under CCR Rule Sections 257.90 through 257.98, a summary including the number of groundwater samples that were collected for analysis for each background and downgradient well, the dates the samples were collected, and whether the sample was required by the detection monitoring or assessment monitoring programs, as well as the basis for the background values and the statistical methods employed to establish the background values;
- A narrative discussion of any transition between monitoring programs (e.g., the date and circumstances for transitioning from detection monitoring to assessment monitoring in addition to identifying the constituent(s) detected at a statistically significant increase over background levels); and
- Other information required to be included in the annual report as specified in CCR Rule Sections 257.90 through 257.98.

The Groundwater Monitoring and Corrective Action Report for the 2017 monitoring program must be placed in each facility operating record no later than January 31, 2018. Subsequent reports must be placed in the facility operating records no later than January 31 of the year following completion of the groundwater monitoring program from the preceding calendar year. The reports must also be posted to the owner or operator's CCR Rule Compliance Data and Information internet site within 30 days of placing the reports in the operating record.

8.0 REFERENCES

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FIGURES

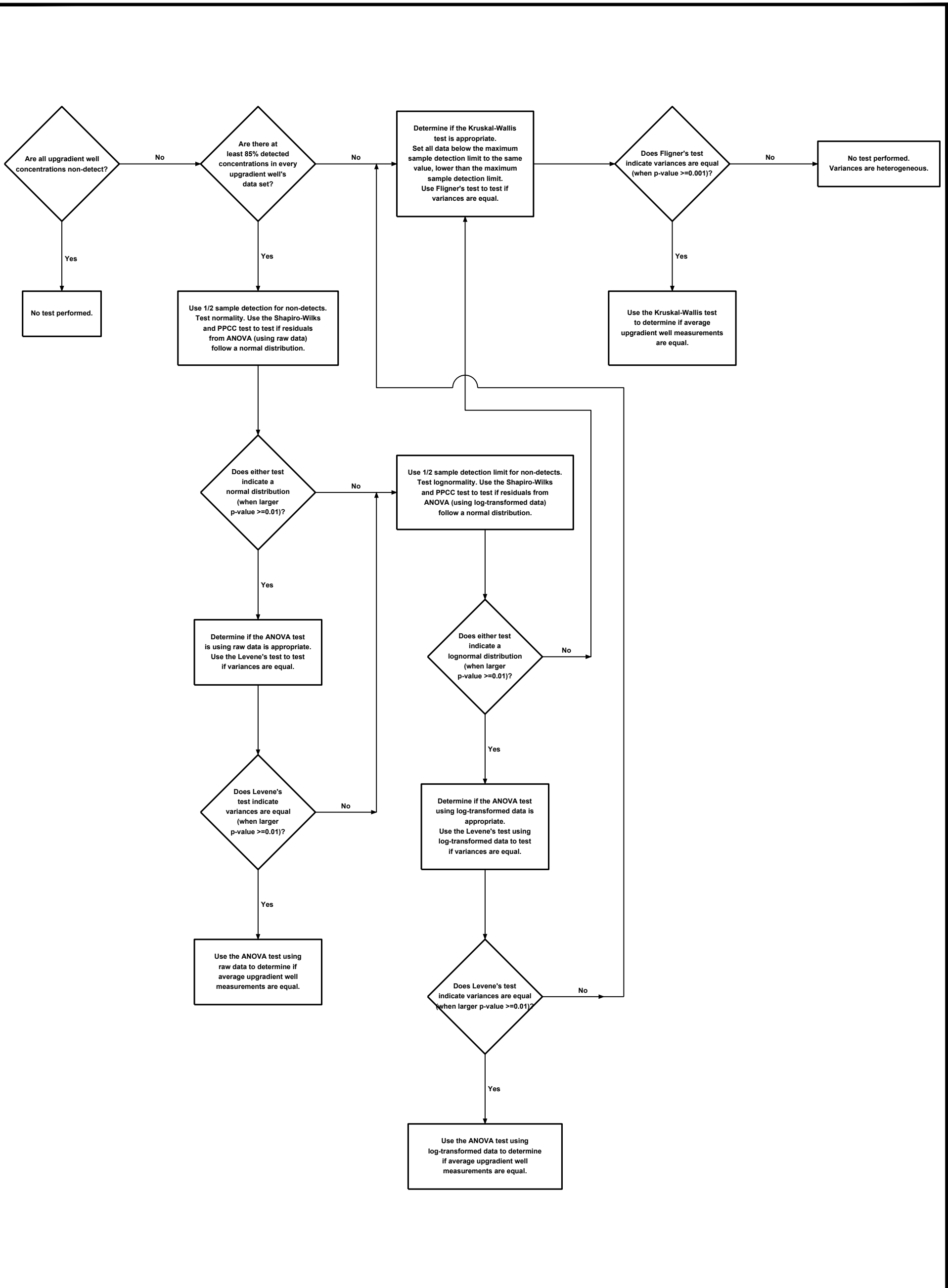
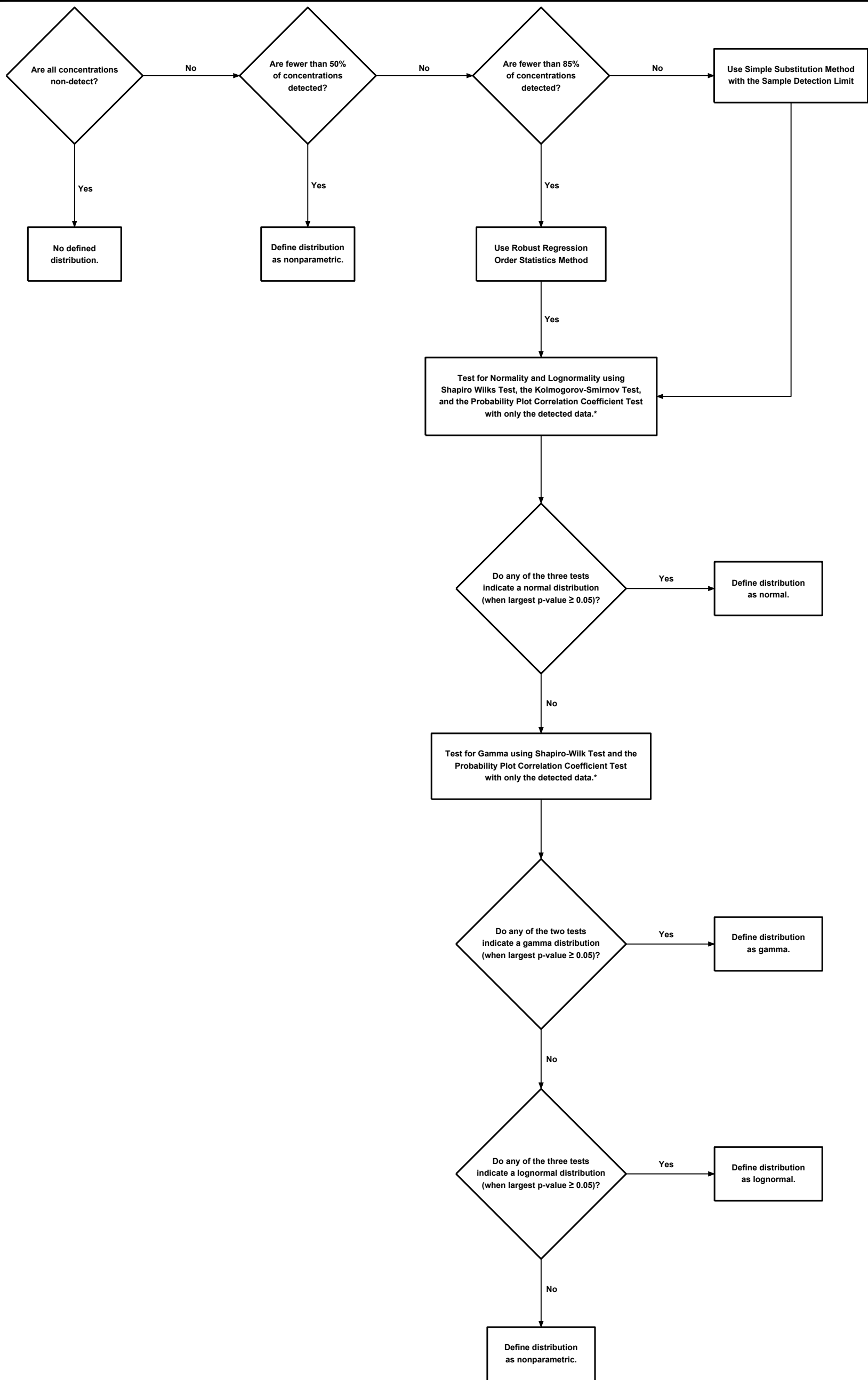


Figure 1
PROCESS FOR SELECTING ANOVA OR KRUSKAL-WALLIS TEST TO COMPARE UPGRADIENT WELL AVERAGES

| | | |
|-----------------|--------------|-----------|
| PROJECT: 5164E | BY: AJD | REVISIONS |
| DATE: JAN. 2019 | CHECKED: PJB | |

GOLDER ASSOCIATES USA, INC.



Note:

* - Distributional tests can not be performed for the following cases:

1. For a data group with fewer than five detected samples, the Kolmogorov-Smirnov Test and the Probability Plot Correlation Coefficient Test can not be performed using only the detected concentrations.
2. For a data group with fewer than four detected samples, the Shapiro-Wilks Test can not be performed using only the detected concentrations.

Figure 2

**PROCESS FOR
DEFINING A DISTRIBUTION
FOR A DATA SET**

| | | |
|-----------------|--------------|-----------|
| PROJECT: 5164E | BY: AJD | REVISIONS |
| DATE: JAN. 2019 | CHECKED: PJB | |

GOLDER ASSOCIATES USA, INC.

2020 Annual Groundwater Monitoring and Corrective Action Report

Coleto Creek Primary Ash Pond - Fannin, Texas

Prepared for:

Coleto Creek Power, LLC

Prepared by:

Golder Associates Inc.

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January 29, 2021

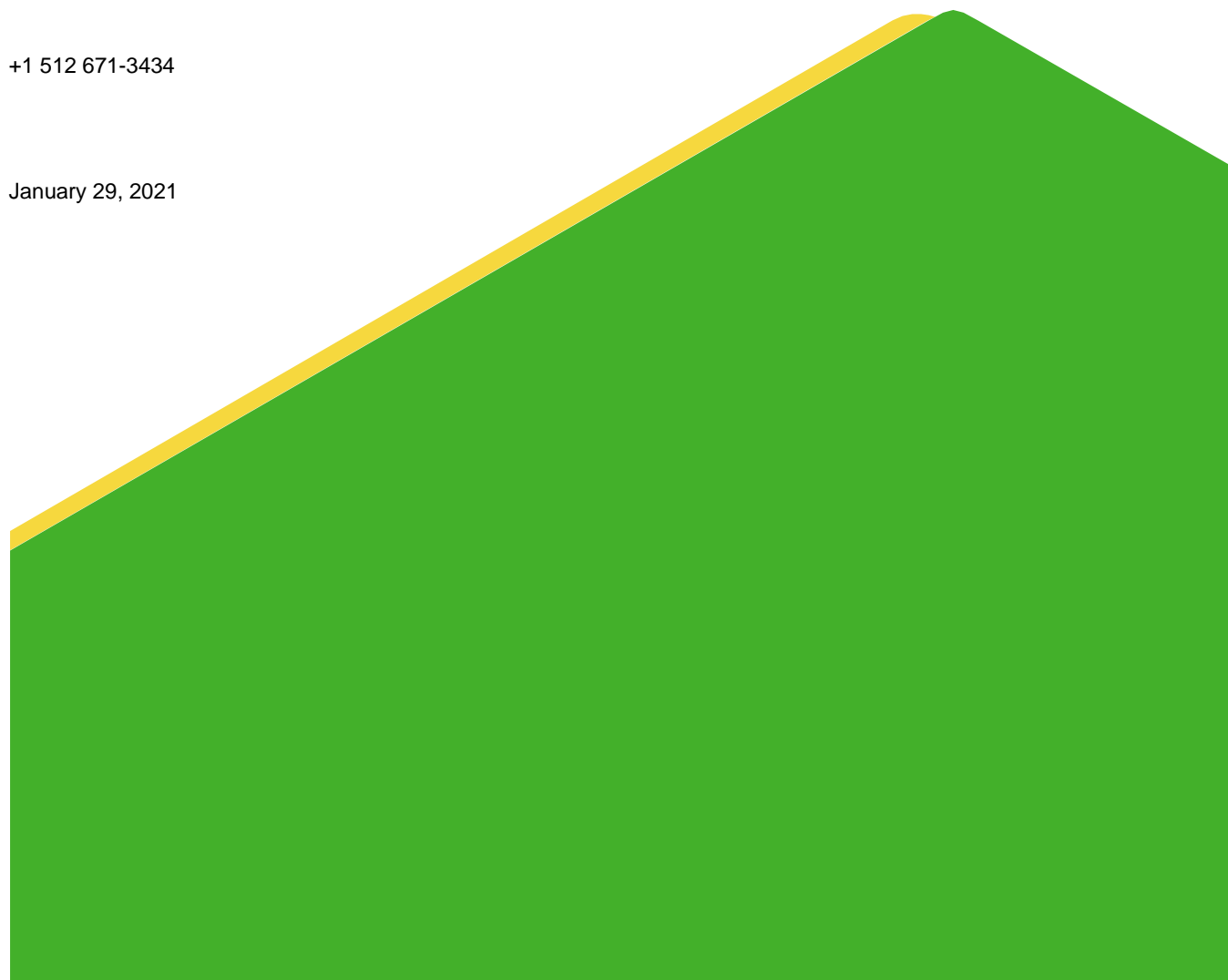


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ACRONYMS AND ABBREVIATIONS

| | |
|-------|---|
| CCR | Coal Combustion Residuals |
| CFR | Code of Federal Regulations |
| GWPS | Groundwater Protection Standard |
| MCL | Maximum Concentration Level |
| mg/L | Milligrams per Liter |
| NA | Not Applicable |
| OBG | O'Brien & Gere Engineers, Inc. |
| SSI | Statistically Significant Increase |
| SSL | Statistically Significant Level |
| USEPA | United States Environmental Protection Agency |

EXECUTIVE SUMMARY

Golder Associates, Inc. (Golder) has prepared this report on behalf of Coletto Creek Power, LLC to satisfy the 2020 annual groundwater monitoring and corrective action reporting requirements of the Coal Combustion Residuals (CCR) Rule (40 CFR 257, Subpart D) for the Primary Ash Pond (the “CCR unit”) at the Coletto Creek Power Station in Fannin, Texas. The CCR unit and CCR monitoring well network are shown on Figure 1.

At the beginning and end of the 2020 reporting period, the CCR unit was operating under an Assessment Monitoring Program as described in 40 CFR § 257.95. The Assessment Monitoring Program was established on May 9, 2018. No constituents listed in Appendix IV to Part 257 were detected at statistically significant levels (SSLs) above groundwater protection standards during 2020. The Assessment Monitoring Program will continue during 2021 in accordance with § 257.95.

1.0 INTRODUCTION

The CCR Rule (40 CFR 257 Subpart D - *Standards for the Receipt of Coal Combustion Residuals in Landfills and Surface Impoundments*) was promulgated by the United States Environmental Protection Agency (USEPA) to regulate the management and disposal of CCRs as solid waste under Resource Conservation and Recovery Act (RCRA) Subtitle D. For existing CCR landfills and surface impoundments, the CCR Rule requires that the owner or operator prepare an annual groundwater monitoring and corrective action report to document the status of the groundwater monitoring and corrective action program for the CCR unit for the previous calendar year. Per 40 CFR 257.90(e) of the CCR Rule, the report should contain the following information, to the extent available:

- (1) A map, aerial image, or diagram showing the CCR unit and all background (or upgradient) and downgradient monitoring wells, to include the well identification numbers, that are part of the groundwater monitoring program for the CCR unit;
- (2) Identification of any monitoring wells that were installed or decommissioned during the preceding year, along with a narrative description of why those actions were taken;
- (3) In addition to all the monitoring data obtained under §§ 257.90 through 257.98, a summary including the number of groundwater samples that were collected for analysis for each background and downgradient well, the dates the samples were collected, and whether the sample was required by the detection monitoring or assessment monitoring programs;
- (4) A narrative discussion of any transition between monitoring programs (*e.g.*, the date and circumstances for transitioning from detection monitoring to assessment monitoring in addition to identifying the constituent(s) detected at a statistically significant increase over background levels); and
- (5) Other information required to be included in the annual report as specified in §§ 257.90 through 257.98.
- (6) A section at the beginning of the annual report that provides an overview of the current status of groundwater monitoring and corrective action programs for the CCR unit. At a minimum, the summary must specify all of the following:
 - (i) At the start of the current annual reporting period, whether the CCR unit was operating under the detection monitoring program in § 257.94 or the assessment monitoring program in § 257.95;
 - (ii) At the end of the current annual reporting period, whether the CCR unit was operating under the detection monitoring program in § 257.94 or the assessment monitoring program in § 257.95;
 - (iii) If it was determined that there was a statistically significant increase over background for one or more constituents listed in appendix III to this part pursuant to § 257.94(e):
 - (A) Identify those constituents listed in appendix III to this part and the names of the monitoring wells associated with such an increase; and
 - (B) Provide the date when the assessment monitoring program was initiated for the CCR unit.

- (iv) If it was determined that there was a SSL above the groundwater protection standard for one or more constituents listed in appendix IV to this part pursuant to § 257.95(g) include all of the following:
 - (A) Identify those constituents listed in appendix IV to this part and the names of the monitoring wells associated with such an increase;
 - (B) Provide the date when the assessment of corrective measures was initiated for the CCR unit;
 - (C) Provide the date when the public meeting was held for the assessment of corrective measures for the CCR unit; and
 - (D) Provide the date when the assessment of corrective measures was completed for the CCR unit.
- (v) Whether a remedy was selected pursuant to § 257.97 during the current annual reporting period, and if so, the date of remedy selection; and
- (vi) Whether remedial activities were initiated or are ongoing pursuant to § 257.98 during the current annual reporting period.

2.0 MONITORING AND CORRECTIVE ACTION PROGRAM STATUS

O'Brien & Gere Engineers, Inc. (OBG) collected the initial Detection Monitoring Program groundwater samples from the Primary Ash Pond CCR monitoring well network in November 2017. OBG completed an evaluation of those data in 2018 to identify statistically significant increases (SSIs) of Appendix III parameters over background concentrations. The Detection Monitoring Program sampling dates and parameters are summarized in the following table:

Detection Monitoring Program Summary

| Sampling Dates | Parameters | SSIs | Assessment Monitoring Program Established |
|-----------------------|-------------------|-------------|--|
| November 7-8, 2017 | Appendix III | Yes | May 9, 2018 |

Alternate source evaluations were inconclusive for one or more of the SSIs. Consequently, an Assessment Monitoring Program was initiated and established for the Primary Ash Pond CCR unit in 2018 in accordance with 40 CFR § 257.94(e)(2).

Assessment Monitoring Program groundwater samples were collected from the CCR groundwater monitoring network in 2018, as required by the CCR Rule. OBG collected the initial 2018 Assessment Monitoring Program groundwater samples in June 2018. Subsequent Assessment Monitoring Program sampling events have been conducted by Golder on a semi-annual basis, as required by the CCR Rule. All CCR groundwater monitoring wells were sampled for Appendix III and Appendix IV constituents during the first and second semi-annual sampling events of each year. The Assessment Monitoring Program sampling dates and results are summarized in the following table:

Assessment Monitoring Program Summary

| Sampling Dates | Analytical Data Receipt Date | Parameters Collected | SSL(s) | SSL(s) Determination Date | Corrective Measures Assessment Initiated |
|-------------------|------------------------------|-----------------------------|--------|---------------------------|--|
| June 19-25, 2018 | August 7, 2018 | Appendix III Appendix IV | No | NA | NA |
| Sept. 18, 2018 | October 12, 2018 | Appendix III Appendix IV | No | NA | NA |
| June 3-5, 2019 | July 12, 2019 | Appendix III Appendix IV | No | NA | NA |
| October 2-3, 2019 | November 5, 2019 | Appendix III Appendix IV | No | NA | NA |
| June 9, 2020 | July 15, 2020 | Appendix III Appendix IV | No | NA | NA |
| October 6, 2020 | November 9, 2020 | Appendix III Appendix IV | No | NA | NA |

Notes:

NA - not applicable

The statistical background prediction limits used to assess Appendix III data and the Groundwater Protection Standards (GWPSs) used to assess Appendix IV data are summarized in Tables 1 and 2, respectively. Appendix III and Appendix IV sample analytical data are summarized in Tables 3 and 4, respectively. Statistical analysis of the 2020 sample data was performed in accordance with the Statistical Analysis Plan for CCR Groundwater Monitoring (PBW 2017) and the USEPA Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities- Unified Guidance (USEPA 2009). The statistical analysis included an evaluation of statistical confidence intervals based on Appendix IV sample data collected from downgradient monitoring wells. Statistically significant levels (SSLs) above GWPSs are indicated if the 95% lower confidence limit of a particular parameter's data population exceeds the GWPS. Based on the current Appendix IV sample data, none of the Appendix IV parameters are currently present at SSLs above GWPSs.

3.0 KEY ACTIONS COMPLETED IN 2020

Assessment Monitoring Program groundwater monitoring events were completed in June and October 2020. The number of groundwater samples that were collected for analysis for each background and downgradient well, the dates the samples were collected, and the analytical results for the groundwater samples are summarized in Table 3 (Appendix III parameters) and Table 4 (Appendix IV parameters).

No CCR wells were installed or decommissioned in 2020.

4.0 PROBLEMS ENCOUNTERED AND ACTIONS TO RESOLVE THE PROBLEMS

No problems were encountered with the CCR groundwater monitoring program in 2020.

5.0 KEY ACTIVITIES PLANNED FOR 2021

The following key activities are planned for 2021:

- Continue the Assessment Monitoring Program in accordance with 40 CFR § 257.95.
- Complete statistical evaluation of Appendix IV analytical data from the downgradient wells and compare results to GWPSs to determine whether an SSL has occurred.
- If an SSL is identified, notification will be prepared as required under 40 CFR § 257.95(g). The notification will be placed in the operating record per 40 CFR § 257.105(h)(8) and will be subsequently placed on the public website per 40 CFR § 257.107(d). Potential alternate sources (i.e., a source other than the CCR unit caused the SSL or that the SSL resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality) will be evaluated. If an alternate source is identified to be the cause of the SSL, a written demonstration will be completed within 90 days of SSL determination and included in the subsequent Annual Groundwater Monitoring and Corrective Action Report.
- If an alternate source is not identified to be the cause of the SSL, the applicable requirements of 40 CFR §§ 257.94 through 257.98 (e.g., assessment of corrective measures) will be met, including associated recordkeeping/notifications required by 40 CFR §§ 257.105 through 257.108.

6.0 REFERENCES

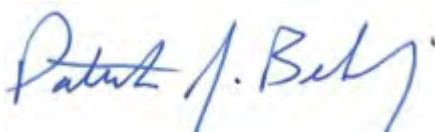
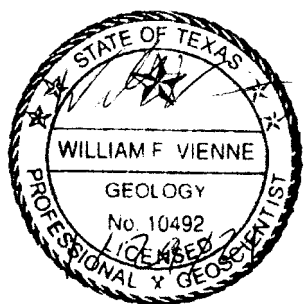
O'Brien and Gere Engineers, Inc. (OBG), 2017. Statistical Analysis Plan, Coieto Creek Power Station.

Signature Page

Golder Associates Inc.



William F. Vienne
Senior Hydrogeologist



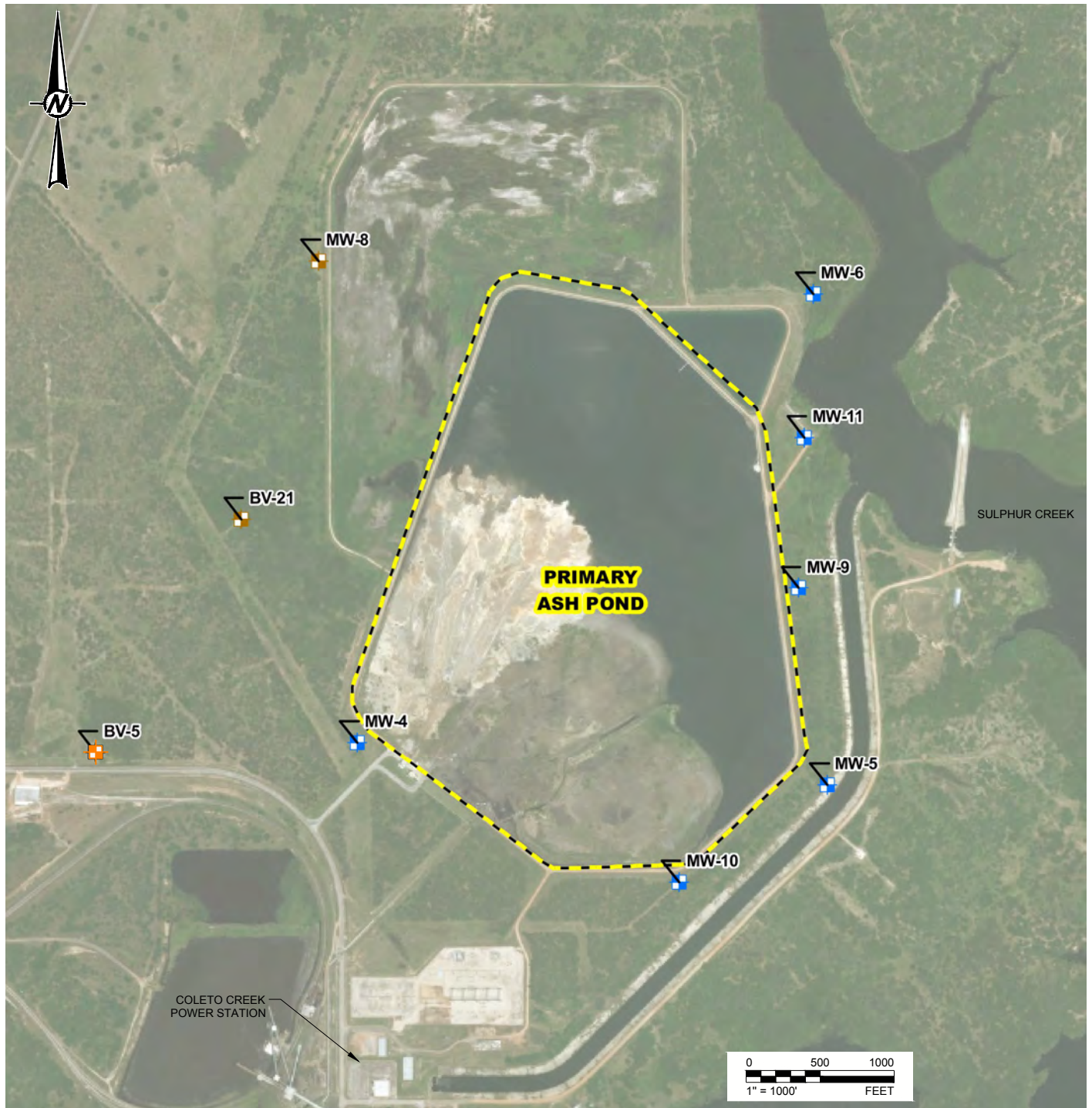
Patrick J. Behling
Principal Engineer






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FIGURES

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LEGEND

-  DOWNGRADIENT MONITORING WELL LOCATION
-  UPGRADIENT MONITORING WELL LOCATION
-  CCR MONITORING UNIT

CLIENT
 COLETO CREEK POWER LP

PROJECT
 COLETO CREEK POWER STATION
 FANNIN, TEXAS

TITLE
 D I S I M I N A T I O N P L A N - C O L E T O C R E E K P O W E R S T A T I O N

| | | |
|--|------------|------------|
| CONSULTANT | YYYY-MM-DD | 2019-01-14 |
|  | DESIGNED | AJD |
| | PREPARED | AJD |
| | REVIEWED | WV |
| | APPROVED | WV |

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI A

TABLES

Table 1
Appendix III Statistical Background Values
Coletto Creek Primary Ash Pond

| Parameter | Statistical Background Value |
|-------------------------------|-------------------------------------|
| Boron (mg/L) | 1.26 |
| Calcium (mg/L) | 143 |
| Chloride (mg/L) | 118 |
| Fluoride (mg/L) | 0.61 |
| field pH (s.u.) | 6.51 7.33 |
| Sulfate (mg/L) | 148 |
| Total Dissolved Solids (mg/L) | 966 |

Table 2
Groundwater Protection Standards
Coletto Creek Primary Ash Pond

| Parameter | Groundwater Protection Standard |
|------------------------|--|
| Antimony (mg/L) | 0.006 |
| Arsenic (mg/L) | 0.128 |
| Barium (mg/L) | 2.0 |
| Beryllium (mg/L) | 0.004 |
| Cadmium (mg/L) | 0.005 |
| Chromium (mg/L) | 0.10 |
| Cobalt (mg/L) | 0.0499 |
| Fluoride (mg/L) | 4.0 |
| Lead (mg/L) | 0.015 |
| Lithium (mg/L) | 0.04 |
| Mercury (mg/L) | 0.002 |
| Molybdenum (mg/L) | 0.10 |
| Selenium (mg/L) | 0.05 |
| Thallium (mg/L) | 0.002 |
| Radium 226+228 (pCi/L) | 5.0 |

TABLE 3
APPENDIX III ANALYTICAL RESULTS
COLETO CREEK PRIMARY ASH POND

| Sample Location | Date Sampled | B | Ca | Cl | FI | field pH | SO ₄ | TDS |
|-------------------------|--------------|-------|------|-------|---------|----------|-----------------|-----|
| Upgradient Wells | | | | | | | | |
| BV-5 | 03/29/17 | 1.15 | 90.5 | 118 | 0.54 | 7.01 | 147 | 860 |
| | 05/11/17 | 1.03 | 81.6 | 106 | 0.57 | 6.89 | 148 | 862 |
| | 05/16/17 | 1.17 | 99 | 107 | 0.55 | 6.9 | 145 | 832 |
| | 06/07/17 | 1.11 | 88.8 | 109 | 0.56 | 6.64 | 147 | 810 |
| | 06/20/17 | 1.02 | 90.7 | 106 | 0.58 | 6.54 | 145 | 716 |
| | 06/27/17 | 1.14 | 100 | 114 | 0.55 | 6.76 | 144 | 743 |
| | 07/12/17 | 1.07 | 96.8 | 112 | 0.56 | 6.88 | 140 | 430 |
| | 07/18/17 | 1.17 | 143 | 117 | 0.56 | 6.68 | 142 | 817 |
| | 11/07/17 | 1.10 | 94.2 | 109 | 0.62 | 6.96 | 136 | 850 |
| | 06/19/18 | 1.18 | 56.4 | 112 | 0.97 | -- | 147 | 775 |
| | 09/18/18 | 1.27 | 86.2 | 145 | 0.667 | 6.53 | 146 | 904 |
| | 06/05/19 | 1.26 | 82.9 | 123 | 0.769 | 6.89 | 146 | 828 |
| | 10/03/19 | 1.31 | 72.2 | 141 | 0.753 | 7.11 | 145 | 806 |
| | 06/09/20 | 1.35 | 90.4 | 171 | 0.498 | 6.97 | 159 | 951 |
| 10/06/20 | 1.26 | 80.2 | 133 | 1.01 | 6.54 | 155 | 843 | |
| BV-21 | 03/28/17 | 0.651 | 6.89 | 36 | 0.61 | 7.09 | 69 | 490 |
| | 05/09/17 | 0.687 | 65.2 | 38 | 0.61 | 7.04 | 55 | 410 |
| | 05/17/17 | 0.709 | 74.3 | 39 | 0.58 | 7.05 | 53 | 454 |
| | 06/06/17 | 0.657 | 69 | 40 | 0.59 | 7.11 | 49 | 452 |
| | 06/20/17 | 0.642 | 77 | 40 | 0.61 | 6.7 | 45 | 356 |
| | 06/27/17 | 0.727 | 84.9 | 40 | 0.6 | 6.97 | 46 | 420 |
| | 07/10/17 | 0.674 | 90.6 | 39 | 0.58 | 7.22 | 45 | 427 |
| | 07/18/17 | 0.618 | 84.4 | 39 | 0.6 | 6.91 | 44 | 380 |
| | 11/07/17 | 0.515 | 73.6 | 42 | 0.64 | 7.12 | 46 | 423 |
| | 06/25/18 | 0.543 | 69.3 | 38.4 | 0.62 | -- | 38.4 | 380 |
| | 09/18/18 | 0.624 | 72.1 | 33.3 | 0.479 | 6.64 | 36.4 | 416 |
| | 06/05/19 | 0.576 | 61.3 | 30.3 | 0.602 | 7.1 | 34.2 | 379 |
| | 10/03/19 | 0.534 | 63.4 | 23.9 | 0.588 | 6.82 | 33.2 | 342 |
| | 06/09/20 | 0.447 | 72.5 | 34.2 | 0.522 | 6.96 | 18.5 | 362 |
| 10/06/20 | 0.480 | 84.0 | 40.4 | 0.677 | 6.72 | 14.5 | 390 | |
| MW-8 | 03/28/17 | 1.2 | 7.76 | 79 | 0.49 | 7.06 | 76 | 626 |
| | 05/09/17 | 1.21 | 77.5 | 77 | 0.44 | 7.15 | 79 | 564 |
| | 05/15/17 | 1.16 | 81.2 | 76 | 0.44 | 7.01 | 79 | 558 |
| | 06/06/17 | 1.26 | 78.1 | 72 | 0.45 | 6.92 | 83.5 | 570 |
| | 06/20/17 | 1.24 | 86.5 | 67 | 0.43 | 6.7 | 89 | 476 |
| | 06/27/17 | 1.23 | 89.6 | 66 | 0.44 | 6.85 | 97 | 533 |
| | 07/10/17 | 1.24 | 92.6 | 63 | 0.44 | 7.13 | 97 | 533 |
| | 07/18/17 | 1.25 | 92.9 | 61 | 0.46 | 6.91 | 100 | 533 |
| | 11/07/17 | 1.21 | 78.8 | 61 | 0.49 | 7.08 | 100 | 540 |
| | 06/25/18 | 1.25 | 80.3 | 65.9 | 0.52 | -- | 95.2 | 565 |
| | 09/18/18 | 1.29 | 76.5 | 53.7 | 0.402 | 6.70 | 94.8 | 543 |
| | 06/05/19 | 1.11 | 65.2 | 51.4 | 0.497 | 7.10 | 79 | 515 |
| | 10/03/19 | 1.2 | 76.7 | 58.3 | 0.419 | 6.76 | 90.1 | 541 |
| | 06/09/20 | 1.33 | 73.1 | 46.4 | 0.392 J | 7.04 | 72.3 | 511 |
| 10/06/20 | 1.18 | 81.1 | 49.5 | 0.652 | 6.84 | 72.2 | 510 | |

TABLE 3
APPENDIX III ANALYTICAL RESULTS
COLETO CREEK PRIMARY ASH POND

| Sample Location | Date Sampled | B | Ca | Cl | Fl | field pH | SO ₄ | TDS |
|---------------------------|--------------|--------|--------|-------|---------|----------|-----------------|-----|
| Downgradient Wells | | | | | | | | |
| MW-4 | 03/28/17 | 0.287 | 9.14 | 102 | 0.61 | 9.81 | 157 | 794 |
| | 05/09/17 | 0.395 | 88.7 | 101 | 0.61 | 7.27 | 156 | 668 |
| | 05/17/17 | 0.251 | 92.1 | 101 | 0.6 | 6.93 | 157 | 702 |
| | 06/06/17 | 0.243 | 90.7 | 101 | 0.63 | 7.13 | 157 | 728 |
| | 06/20/17 | 0.254 | 99.3 | 101 | 0.62 | 6.71 | 157 | 626 |
| | 06/27/17 | 0.254 | 102 | 101 | 0.63 | 6.87 | 157 | 690 |
| | 07/10/17 | 0.271 | 111 | 101 | 0.62 | 7.16 | 158 | 670 |
| | 07/18/17 | 0.292 | 108 | 101 | 0.63 | 6.82 | 157 | 717 |
| | 11/07/17 | 0.255 | 94.5 | 99 | 0.62 | 7.12 | 155 | 700 |
| | 06/21/18 | 0.267 | 92.5 | 104 | 0.6 | -- | 159 | 665 |
| | 09/18/18 | 0.28 | 91.8 | 102 | 0.582 | 6.63 | 155 | 720 |
| | 06/05/19 | 0.379 | 85.3 | 108 | 0.67 | 6.92 | 161 | 718 |
| | 10/03/19 | 0.367 | 93.1 | 102 | 0.559 | 6.7 | 155 | 693 |
| | 06/09/20 | 0.241 | 94.9 | 24.6 | 0.205 J | 6.88 | 26.8 | 400 |
| 10/06/20 | 0.328 | 103 | 101 | 0.736 | 6.75 | 151 | 731 | |
| MW-5 | 03/30/17 | 0.11 | 110 | 140 | 0.51 | 6.85 | 184 | 830 |
| | 05/10/17 | 0.115 | 114 | 139 | 0.54 | 6.86 | 183 | 900 |
| | 05/16/17 | 0.215 | 121 | 139 | 0.5 | 6.81 | 183 | 848 |
| | 06/08/17 | 0.122 | 118 | 139 | 0.55 | 6.8 | 182 | 862 |
| | 06/21/17 | 0.122 | 124 | 138 | 0.53 | 6.6 | 182 | 813 |
| | 06/26/17 | 0.121 | 129 | 139 | 0.54 | 6.79 | 184 | 900 |
| | 07/11/17 | 0.111 | 120 | 138 | 0.52 | 6.91 | 184 | 797 |
| | 07/19/17 | 0.001 | 0.005 | 137 | 0.53 | 6.84 | 181 | 857 |
| | 11/08/17 | 0.149 | 116 | 138 | 0.52 | 6.92 | 183 | 883 |
| | 06/25/18 | 0.119 | 114 | 140 | 0.56 | -- | 183 | 820 |
| | 09/18/18 | 0.146 | 114 | 136 | 0.493 | 6.70 | 183 | 824 |
| | 06/03/19 | 0.146 | 113 | 143 | 0.596 | 7.06 | 187 | 864 |
| | 10/02/19 | 0.179 | 111 | 147 | 0.543 | 7.06 | 202 | 842 |
| | 09/06/20 | 0.152 | 117 | 138 | 0.370 J | 6.84 | 182 | 858 |
| 10/6/2020 | 0.160 | 125 | 133 | 0.662 | 6.91 | 178 | 841 | |
| MW-6 | 03/29/17 | 1.67 | 73.9 | 69 | 0.38 | 7.34 | 99 | 510 |
| | 05/11/17 | 1.94 | 70.6 | 70 | 0.37 | 7.1 | 110 | 490 |
| | 05/16/17 | 1.84 | 76.3 | 70 | 0.36 | 7.23 | 107 | 506 |
| | 06/07/17 | 1.8 | 73.8 | 70 | 0.37 | 6.97 | 103 | 492 |
| | 06/22/17 | 1.97 | 79.9 | 69 | 0.37 | 7.11 | 100 | 510 |
| | 06/28/17 | 1.74 | 81.8 | 69 | 0.37 | 7.16 | 99 | 570 |
| | 07/12/17 | 1.76 | 81.6 | 69 | 0.35 | 7.24 | 98 | 557 |
| | 07/20/17 | 0.005 | 0.0002 | 69 | 0.39 | 6.9 | 97 | 530 |
| | 11/07/17 | 1.72 | 76.4 | 69 | 0.39 | 7.41 | 101 | 483 |
| | 06/22/18 | 0.0171 | 76.6 | 70.7 | 0.41 | -- | 107 | 490 |
| | 09/18/18 | 2.09 | 70.8 | 72.5 | 0.353 J | 6.97 | 114 | 505 |
| | 06/03/19 | 1.9 | 73.9 | 73 | 0.043 | 7.31 | 103 | 514 |
| | 10/02/19 | 1.83 | 73.6 | 76.4 | 0.357 J | 7.29 | 115 | 507 |
| | 06/09/20 | 2.51 | 69.7 | 80.9 | 0.4 | 6.95 | 122 | 507 |
| 10/06/20 | 1.92 | 81.9 | 73.4 | 0.512 | 6.97 | 87.9 | 510 | |

TABLE 3
APPENDIX III ANALYTICAL RESULTS
COLETO CREEK PRIMARY ASH POND

| Sample Location | Date Sampled | B | Ca | Cl | Fl | field pH | SO ₄ | TDS |
|-----------------|--------------|------|------|-------|-------|----------|-----------------|-----|
| MW-9 | 03/30/17 | 3.38 | 54.5 | 71 | 1.13 | 7.35 | 62 | 406 |
| | 05/10/17 | 3.16 | 52.7 | 66 | 1.29 | 7.48 | 59 | 410 |
| | 05/17/17 | 3.18 | 53.3 | 67 | 1.26 | 7.34 | 58 | 440 |
| | 06/07/17 | 3.12 | 52 | 67 | 1.26 | 7.03 | 57 | 380 |
| | 06/21/17 | 3.44 | 60.7 | 66 | 1.39 | 7.09 | 60 | 393 |
| | 06/26/17 | 3.31 | 60.6 | 67 | 1.4 | 7.23 | 61 | 407 |
| | 07/11/17 | 3.35 | 52.1 | 64 | 1.3 | 7.51 | 60 | 927 |
| | 07/19/17 | 3.4 | 50.2 | 63 | 1.4 | 7.29 | 62 | 407 |
| | 11/08/17 | 2.84 | 49.4 | 62 | 1.56 | 7.54 | 50 | 397 |
| | 06/21/18 | 2.94 | 46.9 | 71.5 | 1.5 | -- | 35.7 | 370 |
| | 09/18/18 | 2.79 | 51.7 | 71.4 | 1.1 | 6.99 | 49.1 | 394 |
| | 06/05/19 | 4.26 | 48 | 74.7 | 1.38 | 7.4 | 66.3 | 421 |
| | 10/03/19 | 3.97 | 71.3 | 70.9 | 1.41 | 7.37 | 63.6 | 462 |
| | 09/06/20 | 4.10 | 47.4 | 63.7 | 1.58 | 7.21 | 54.9 | 397 |
| 10/06/20 | 3.78 | 50.1 | 49.6 | 1.73 | 7.47 | 51.7 | 366 | |
| MW-10 | 03/30/17 | 3.74 | 92.1 | 151 | 0.54 | 6.99 | 130 | 804 |
| | 05/10/17 | 7.32 | 56.1 | 82 | 0.83 | 7.23 | 96 | 582 |
| | 05/16/17 | 7.45 | 62.7 | 81 | 0.81 | 7.28 | 95 | 612 |
| | 06/08/17 | 7.54 | 58.1 | 77 | 0.84 | 7.23 | 92 | 604 |
| | 06/21/17 | 9.22 | 60.7 | 77 | 0.84 | 6.97 | 92 | 550 |
| | 06/26/17 | 8.21 | 63.4 | 78 | 0.84 | 7.14 | 92 | 530 |
| | 07/11/17 | 7.99 | 49.5 | 76 | 0.84 | 7.4 | 88 | 617 |
| | 07/19/17 | 8.74 | 56.6 | 74 | 0.86 | 7.25 | 86 | 533 |
| | 11/08/17 | 8.72 | 77.7 | 74 | 0.88 | 7.35 | 81 | 590 |
| | 06/22/18 | 8.47 | 84.4 | 76.7 | 0.88 | -- | | 550 |
| | 09/18/18 | 8.45 | 51.9 | 81.4 | 0.759 | 6.98 | 95.1 | 577 |
| | 06/03/19 | 8.28 | 43.1 | 87.2 | 0.953 | 7.52 | 97.7 | 587 |
| | 10/02/19 | 8.28 | 44.2 | 85.5 | 0.891 | 7.46 | 104 | 575 |
| | 06/09/20 | 7.58 | 46.9 | 76.9 | 0.818 | 7.13 | 96.5 | 575 |
| 10/06/20 | 6.94 | 49.0 | 73.7 | 1.05 | 7.35 | 92.3 | 575 | |
| MW-11 | 05/10/17 | 1.35 | 64.1 | 55 | 0.82 | 7.27 | 61 | 394 |
| | 05/16/17 | 1.39 | 62.3 | 52 | 0.85 | 7.29 | 58 | 362 |
| | 05/18/17 | 1.27 | 61.6 | 47.8 | 0.94 | -- | 52.4 | 390 |
| | 06/07/17 | 1.23 | 59.8 | 48 | 0.93 | 7.25 | 50 | 372 |
| | 06/21/17 | 1.19 | 73.1 | 43.7 | 1.04 | 7.15 | 44 | 373 |
| | 06/26/17 | 1.15 | 82 | 44 | 1 | 7.3 | 43 | 407 |
| | 07/11/17 | 1.23 | 44.7 | 44 | 1 | 7.55 | 42 | 603 |
| | 07/19/17 | 1.17 | 48.6 | 43 | 1.01 | 7.21 | 42 | 360 |
| | 11/08/17 | 1.13 | 52.2 | 43 | 1.02 | 7.61 | 56 | 367 |
| | 06/21/18 | 1.07 | 69.6 | 44.3 | 0.96 | -- | 61.4 | 355 |
| | 09/18/18 | 1.12 | 39.3 | 44.6 | 0.754 | 7.00 | 44.4 | 354 |
| | 06/03/19 | 1.27 | 43.4 | 42.2 | 0.837 | 7.55 | 44.8 | 372 |
| | 10/02/19 | 1.22 | 43.4 | 41.4 | 0.768 | 7.43 | 10.8 | 355 |
| | 06/09/20 | 1.20 | 56.6 | 44.4 | 0.571 | 6.88 | 67.7 | 414 |
| 10/06/20 | 1.05 | 66.8 | 58.6 | 0.767 | 7.05 | 85.9 | 453 | |

Notes:

1. All concentrations in mg/L. pH in standard units.
2. J - concentration is below sample quantitation limit; result is an estimate.

**TABLE 4
APPENDIX IV ANALYTICAL RESULTS
COLETO CREEK PRIMARY ASH POND**

| Sample Location | Date Sampled | Sb | As | Ba | Be | Cd | Cr | Co | Fl | Pb | Li | Hg | Mo | Se | Tl | Ra 226 | Ra 228 | Ra 226/228 Combined |
|------------------|--------------|---------|---------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|----------|-----------|-----------|---------|--------|--------|---------------------|
| Upgradient Wells | | | | | | | | | | | | | | | | | | |
| BV-5 | 03/29/17 | <0.0025 | 0.00856 | 0.04510 | <0.001 | <0.001 | <0.005 | 0.0497 | 0.540 | <0.001 | 0.0206 | <0.0002 | 0.00925 | <0.005 | <0.0015 | -- | -- | 1.503 |
| | 05/11/17 | <0.0025 | 0.00786 | 0.03680 | <0.001 | <0.001 | <0.005 | 0.0462 | 0.570 | <0.001 | 0.018 | <0.0002 | 0.0101 | <0.005 | <0.0015 | -- | -- | 1.555 |
| | 05/16/17 | <0.0025 | 0.00885 | 0.04520 | <0.001 | <0.001 | <0.005 | 0.0495 | 0.550 | 0.00151 | 0.0171 | <0.0002 | 0.0102 | <0.005 | <0.0015 | -- | -- | 0.7550 |
| | 06/07/17 | <0.0025 | 0.00829 | 0.03760 | <0.001 | <0.001 | <0.005 | 0.0483 | 0.560 | <0.001 | 0.0207 | <0.0002 | 0.01 | <0.005 | <0.0015 | -- | -- | 1.457 |
| | 06/20/17 | <0.0025 | 0.00841 | 0.04010 | <0.001 | <0.001 | <0.005 | 0.0499 | 0.580 | <0.001 | 0.0208 | <0.0002 | 0.0114 | <0.005 | <0.0015 | -- | -- | 0.4920 |
| | 06/27/17 | <0.0025 | 0.0083 | 0.04120 | <0.001 | <0.001 | <0.005 | 0.046 | 0.550 | <0.001 | 0.0198 | <0.0002 | 0.00942 | <0.005 | <0.0015 | -- | -- | 2.247 |
| | 07/12/17 | <0.0025 | 0.00849 | 0.04160 | <0.001 | <0.001 | <0.005 | 0.0484 | 0.560 | <0.001 | 0.0188 | <0.0002 | 0.0096 | <0.005 | <0.0015 | -- | -- | 2.139 |
| | 07/18/17 | <0.0025 | 0.00951 | 0.05780 | <0.001 | <0.001 | 0.00739 | 0.0453 | 0.560 | 0.00288 | 0.022 | <0.0002 | 0.0083 | <0.005 | <0.0015 | -- | -- | 1.260 |
| | 06/19/18 | <0.0025 | 0.0106 | 0.0336 | <0.001 | <0.001 | 0.0022 J | 0.0513 J | 0.970 | <0.00074 J | 0.016 | <0.0002 | 0.0139 | <0.005 | <0.0015 | 0.327 | <1.680 | 2.01 |
| | 09/18/18 | NA | 0.00949 | 0.0436 | NA | NA | 0.00228 J | 0.0487 | 0.667 | 0.00039 J | 0.0206 | NA | 0.0102 | NA | NA | 0.302 | <0.608 | 0.91 |
| | 06/05/19 | <0.0008 | 0.0092 | 0.042 | <0.0003 | 0.00092 J | <0.002 | 0.0466 | 0.769 | 0.00144 | 0.0201 | <0.00008 | 0.0109 | <0.0020 | <0.0005 | <0.687 | <1.130 | <1.82 |
| 10/03/19 | <0.0008 | 0.00941 | 0.0441 | <0.0003 | <0.0003 | 0.00285 J | 0.0437 | 0.753 | 0.0039 | 0.0172 | <0.00008 | 0.0122 | <0.0020 | <0.0005 | 0.928 | 1.35 | 2.28 | |
| 06/09/20 | <0.0008 | 0.00879 | 0.0462 | <0.0003 | <0.0003 | 0.00818 | 0.0486 | 0.498 | 0.00162 | 0.0201 | <0.0000800 | 0.0120 | <0.00200 | <0.000500 | 0.363 | 0 | 0.363 | |
| 10/06/20 | <0.000800 | 0.00982 | 0.0387 | <0.000300 | <0.000300 | 0.00226 | 0.0449 | 1.01 | <0.000300 | 0.0174 | <0.0000800 | 0.0105 | <0.00200 | <0.000500 | 0.293 | 0.709 | 1 | |
| BV-21 | 03/28/17 | <0.0025 | 0.0954 | 0.09630 | <0.001 | <0.001 | <0.005 | 0.0083 | 0.610 | <0.001 | <0.010 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 1.390 |
| | 05/09/17 | <0.0025 | 0.108 | 0.09720 | <0.001 | <0.001 | <0.005 | 0.00852 | 0.610 | <0.001 | <0.010 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 0.7460 |
| | 05/17/17 | <0.0025 | 0.117 | 0.09440 | <0.001 | <0.001 | <0.005 | 0.00878 | 0.580 | <0.001 | <0.010 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 0.9190 |
| | 06/06/17 | <0.0025 | 0.118 | 0.09540 | <0.001 | <0.001 | <0.005 | 0.00806 | 0.590 | <0.001 | <0.010 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 0.6710 |
| | 06/20/17 | <0.0025 | 0.121 | 0.1010 | <0.001 | <0.001 | <0.005 | 0.00744 | 0.610 | <0.001 | <0.010 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 1.672 |
| | 06/27/17 | <0.0025 | 0.128 | 0.1040 | <0.001 | <0.001 | <0.005 | 0.00841 | 0.600 | <0.001 | <0.010 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 0.5200 |
| | 07/10/17 | <0.0025 | 0.123 | 0.1100 | <0.001 | <0.001 | <0.005 | 0.0086 | 0.580 | <0.001 | <0.010 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 0.8050 |
| | 07/18/17 | <0.0025 | 0.115 | 0.1010 | <0.001 | <0.001 | <0.005 | 0.00784 | 0.600 | <0.001 | <0.010 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 4.812 |
| | 06/25/18 | <0.0025 | 0.0697 | 0.104 | <0.001 | <0.001 | <0.005 | 0.00682 | 0.620 | <0.00074 J | 0.00513 J | <0.0002 | 0.00428 J | <0.005 | <0.0015 | 0.267 | <1.417 | 1.68 |
| | 09/18/18 | NA | 0.0625 | 0.109 | NA | NA | <0.002 | 0.0064 | 0.479 | 0.000555 J | 0.00624 J | NA | 0.00450 J | NA | NA | <0.31 | <0.528 | <0.838 |
| | 06/05/19 | <0.0008 | 0.0531 | 0.105 | <0.0003 | <0.0003 | <0.002 | 0.00574 | 0.602 | 0.000354 | 0.00558 J | <0.00008 | 0.00685 | <0.0020 | <0.0005 | 0.65 | <0.687 | 1.337 |
| | 10/03/19 | <0.0008 | 0.049 | 0.0963 | <0.0003 | <0.0003 | <0.002 | 0.00542 | 0.588 | 0.000333 J | <0.005 | <0.00008 | 0.00784 | <0.0020 | <0.0005 | 0.346 | 1.54 | 1.89 |
| | 06/09/20 | <0.0008 | 0.0793 | 0.132 | <0.0003 | <0.0003 | 0.007 | 0.00437 J | 0.522 | 0.00033 J | <0.005 | <0.00008 | 0.00698 | <0.0020 | <0.0005 | 0.211 | 1.15 | 1.36 |
| 10/6/2020 | <0.000800 | 0.0815 | 0.157 | <0.000300 | <0.000300 | <0.00200 | 0.00411 J | 0.677 | <0.000300 | 0.00532 J | <0.0000800 | 0.00523 | <0.00200 | <0.000500 | 0.37 | -0.112 | 0.37 | |
| MW-8 | 03/28/17 | <0.0025 | 0.00839 | 0.0623 | <0.001 | <0.001 | <0.005 | 0.0236 | 0.490 | <0.001 | 0.0111 | <0.0002 | 0.0154 | <0.005 | <0.0015 | -- | -- | 0.4520 |
| | 05/09/17 | <0.0025 | 0.00848 | 0.064 | <0.001 | <0.001 | <0.005 | 0.0272 | 0.440 | <0.001 | 0.0111 | <0.0002 | 0.0157 | <0.005 | <0.0015 | -- | -- | 0.4740 |
| | 05/15/17 | <0.0025 | 0.00926 | 0.064 | <0.001 | <0.001 | <0.005 | 0.0311 | 0.440 | <0.001 | 0.0112 | <0.0002 | 0.016 | <0.005 | <0.0015 | -- | -- | 0.6140 |
| | 06/06/17 | <0.0025 | 0.00912 | 0.0616 | <0.001 | <0.001 | 0.00744 | 0.0308 | 0.450 | <0.001 | 0.0107 | <0.0002 | 0.0157 | <0.005 | <0.0015 | -- | -- | 0.1320 |
| | 06/20/17 | <0.0025 | 0.00885 | 0.0669 | <0.001 | <0.001 | <0.005 | 0.0297 | 0.430 | <0.001 | 0.0121 | <0.0002 | 0.0171 | <0.005 | <0.0015 | -- | -- | 0.5380 |
| | 06/27/17 | <0.0025 | 0.00939 | 0.0633 | <0.001 | <0.001 | <0.005 | 0.0314 | 0.440 | <0.001 | 0.0115 | <0.0002 | 0.0163 | <0.005 | <0.0015 | -- | -- | 0.9390 |
| | 07/10/17 | <0.0025 | 0.00902 | 0.0631 | <0.001 | <0.001 | <0.005 | 0.031 | 0.440 | <0.001 | 0.0112 | <0.0002 | 0.0165 | <0.005 | <0.0015 | -- | -- | 0.8040 |
| | 07/18/17 | <0.0025 | 0.00937 | 0.0635 | <0.001 | <0.001 | <0.005 | 0.0352 | 0.460 | <0.001 | 0.0118 | <0.0002 | 0.0185 | <0.005 | <0.0015 | -- | -- | 2.113 |
| | 06/25/18 | <0.0025 | 0.0101 | 0.0632 | <0.001 | <0.001 | <0.005 | 0.029 | 0.520 | 0.0011 | 0.0107 | <0.0002 | 0.017 | <0.005 | <0.0015 | <0.234 | <1.204 | <1.44 |
| | 09/18/18 | NA | 0.00896 | 0.0582 | NA | NA | <0.00200 | 0.0237 | 0.402 | <0.0003 | 0.0117 | NA | 0.0178 | NA | NA | <0.281 | <0.558 | <0.84 |
| | 06/05/19 | <0.0008 | 0.00946 | 0.0596 | <0.0003 | <0.0003 | <0.002 | 0.0217 | 0.497 | 0.000355 J | 0.011 | <0.00008 | 0.0156 | <0.0020 | <0.0005 | 0.528 | <0.619 | 1.147 |
| | 10/03/19 | <0.0008 | 0.0083 | 0.0607 | <0.0003 | <0.0003 | <0.002 | 0.231 | 0.419 | <0.0003 | 0.0106 | <0.00008 | 0.0144 | <0.0020 | <0.0005 | 0.224 | 0.241 | 0.465 |
| | 06/09/20 | <0.0008 | 0.00856 | 0.0599 | <0.0003 | <0.0003 | <0.002 | 0.0174 | 0.392 J | 0.000479 J | 0.0104 | <0.00008 | 0.0158 | <0.002 | <0.0005 | 0.304 | 2.64 | 2.94 |
| 10/6/2020 | <0.000800 | 0.00862 | 0.0647 | <0.000300 | <0.000300 | <0.00200 | 0.0162 | 0.652 | <0.000300 | 0.0107 | <0.0000800 | 0.0148 | <0.00200 | <0.000500 | 1.08 | 1.65 | 2.73 | |

**TABLE 4
APPENDIX IV ANALYTICAL RESULTS
COLETO CREEK PRIMARY ASH POND**

| Sample Location | Date Sampled | Sb | As | Ba | Be | Cd | Cr | Co | Fl | Pb | Li | Hg | Mo | Se | Tl | Ra 226 | Ra 228 | Ra 226/228 Combined |
|---------------------------|--------------|-----------|---------|-----------|-----------|-----------|----------|-----------|------------|------------|------------|------------|----------|-----------|-----------|---------|--------|---------------------|
| Downgradient Wells | | | | | | | | | | | | | | | | | | |
| MW-4 | 03/28/17 | <0.0025 | 0.00738 | 0.0575 | <0.001 | <0.001 | <0.005 | 0.007 | 0.610 | <0.001 | 0.0192 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 0.4600 |
| | 05/09/17 | <0.0025 | 0.00733 | 0.0576 | <0.001 | <0.001 | <0.005 | 0.007 | 0.610 | <0.001 | 0.0182 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 0.6940 |
| | 05/15/17 | <0.0025 | 0.00794 | 0.0556 | <0.001 | <0.001 | <0.005 | 0.007 | 0.600 | <0.001 | 0.0166 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 1.451 |
| | 06/06/17 | <0.0025 | 0.0077 | 0.0556 | <0.001 | <0.001 | <0.005 | 0.007 | 0.630 | <0.001 | 0.0179 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 0.1740 |
| | 06/20/17 | <0.0025 | 0.0081 | 0.0596 | <0.001 | <0.001 | 0.00877 | 0.008 | 0.620 | <0.001 | 0.0195 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 0.5430 |
| | 06/27/17 | <0.0025 | 0.00786 | 0.0554 | <0.001 | <0.001 | <0.005 | 0.007 | 0.630 | <0.001 | 0.0185 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 0.6390 |
| | 07/10/17 | <0.0025 | 0.00846 | 0.0582 | <0.001 | <0.001 | <0.005 | 0.009 | 0.620 | <0.001 | 0.0187 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 1.069 |
| | 07/18/17 | <0.0025 | 0.00815 | 0.0549 | <0.001 | <0.001 | <0.005 | 0.008 | 0.630 | <0.001 | 0.0183 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 0.1910 |
| | 06/21/18 | <0.0025 | 0.00843 | 0.0591 | <0.001 | <0.001 | <0.005 | 0.00711 | 0.600 | <0.00072 J | 0.0175 | <0.0002 | <0.005 | <0.005 | <0.0015 | 0.370 | 1.705 | 2.08 |
| | 09/18/18 | NA | 0.00793 | 0.0577 | NA | NA | <0.002 | 0.00673 | 0.582 | <0.0003 | 0.019 | NA | <0.002 | NA | NA | 1.610 | <0.543 | 2.15 |
| | 06/05/19 | <0.0008 | 0.0079 | 0.0571 | <0.0003 | <0.0003 | <0.002 | 0.00729 | 0.670 | <0.0003 | 0.0195 | <0.00008 | <0.002 | <0.0020 | <0.0005 | 0.436 | <0.547 | 0.98 |
| | 10/03/19 | <0.0008 | 0.00764 | 0.0532 | <0.0003 | <0.0003 | <0.002 | 0.00699 | 0.559 | 0.00101 | 0.017 | <0.00008 | <0.002 | <0.002 | <0.0005 | 1.85 | -0.102 | 1.85 |
| 06/09/20 | <0.0008 | <0.002 | 0.0376 | <0.0003 | <0.0003 | <0.002 | <0.003 | 0.205 J | <0.0003 | 0.00751 J | <0.00008 | 0.0021 J | <0.002 | <0.0005 | 0.0553 | 0.264 | 0.319 | |
| 10/06/20 | <0.000800 | 0.00754 | 0.0586 | <0.000300 | <0.000300 | <0.00200 | 0.00862 | 0.736 | 0.000375 J | 0.0186 | <0.0000800 | <0.00200 | <0.00200 | <0.000500 | 0.0684 | -0.16 | 0.0684 | |
| MW-5 | 03/30/17 | <0.0025 | 0.00953 | 0.0748 | <0.001 | <0.001 | <0.005 | <0.005 | 0.510 | <0.001 | 0.0192 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 1.443 |
| | 05/10/17 | <0.0025 | 0.00955 | 0.0706 | <0.001 | <0.001 | <0.005 | <0.005 | 0.540 | <0.001 | 0.0179 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 0.6150 |
| | 05/16/17 | <0.0025 | 0.00967 | 0.0708 | <0.001 | <0.001 | <0.005 | <0.005 | 0.500 | <0.001 | 0.0181 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 0.6410 |
| | 06/08/17 | <0.0025 | 0.00908 | 0.0701 | <0.001 | <0.001 | <0.005 | <0.005 | 0.550 | <0.001 | 0.0200 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 0.1790 |
| | 06/21/17 | <0.0025 | 0.00917 | 0.0767 | <0.001 | <0.001 | <0.005 | <0.005 | 0.530 | <0.001 | 0.0197 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 0.1060 |
| | 06/26/17 | <0.0025 | 0.00955 | 0.0735 | <0.001 | <0.001 | <0.005 | <0.005 | 0.540 | <0.001 | 0.0204 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 1.112 |
| | 07/11/17 | <0.0025 | 0.00945 | 0.0712 | <0.001 | <0.001 | <0.005 | <0.005 | 0.520 | <0.001 | 0.0183 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 0.5120 |
| | 07/19/17 | <0.0025 | 0.00941 | 0.0735 | <0.001 | <0.001 | <0.005 | <0.005 | 0.530 | <0.001 | 0.0186 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 0.1910 |
| | 06/25/18 | <0.0025 | 0.00998 | 0.0733 | <0.001 | <0.001 | <0.005 | <0.005 | 0.560 | <0.001 | 0.0182 | <0.0002 | <0.005 | <0.005 | <0.0015 | <0.251 | <1.369 | <1.62 |
| | 09/18/18 | NA | 0.00945 | 0.0697 | NA | NA | <0.002 | <0.003 | 0.493 | <0.0003 | 0.0195 | NA | <0.002 | NA | NA | <0.282 | <0.606 | <0.89 |
| | 06/03/19 | <0.0008 | 0.00948 | 0.0678 | <0.0003 | <0.0003 | <0.002 | <0.003 | 0.596 | <0.0003 | 0.0206 | <0.00008 | <0.002 | <0.002 | <0.0005 | <0.619 | <0.917 | <1.54 |
| | 10/02/19 | <0.0008 | 0.00918 | 0.067 | <0.0003 | <0.0003 | <0.002 | <0.003 | 0.543 | <0.0003 | 0.0187 | <0.00008 | <0.002 | <0.002 | <0.0005 | 0.47 | 0.117 | 0.587 |
| | 06/09/20 | <0.0008 | 0.00891 | 0.0689 | <0.0003 | <0.0003 | <0.002 | <0.003 | 0.370 J | <0.0003 | 0.0192 | <0.00008 | <0.002 | <0.002 | <0.0005 | 0.171 | 0.211 | 0.382 |
| | 10/6/2020 | <0.000800 | 0.00927 | 0.0708 | <0.000300 | <0.000300 | <0.00200 | <0.00300 | 0.662 | <0.000300 | 0.0190 | <0.0000800 | <0.00200 | <0.00200 | <0.000500 | 0.0604 | 0.0798 | 0.14 |
| | MW-6 | 03/29/17 | <0.0025 | 0.00827 | 0.0900 | <0.001 | <0.001 | <0.005 | <0.005 | 0.380 | <0.001 | <0.010 | <0.0002 | 0.00749 | <0.005 | <0.0015 | -- | -- |
| 05/11/17 | | <0.0025 | 0.00738 | 0.0758 | <0.001 | <0.001 | <0.005 | <0.005 | 0.370 | <0.001 | 0.0101 | <0.0002 | 0.0176 | <0.005 | <0.0015 | -- | -- | 0.8250 |
| 05/16/17 | | <0.0025 | 0.00803 | 0.0784 | <0.001 | <0.001 | <0.005 | <0.005 | 0.360 | <0.001 | <0.010 | <0.0002 | 0.0131 | <0.005 | <0.0015 | -- | -- | 0.7740 |
| 06/07/17 | | <0.0025 | 0.00772 | 0.0798 | <0.001 | <0.001 | <0.005 | <0.005 | 0.370 | <0.001 | <0.010 | <0.0002 | 0.00949 | <0.005 | <0.0015 | -- | -- | 0.6640 |
| 06/22/17 | | <0.0025 | 0.00764 | 0.083 | <0.001 | <0.001 | <0.005 | <0.005 | 0.370 | <0.001 | 0.0109 | <0.0002 | 0.0084 | <0.005 | <0.0015 | -- | -- | 0.2150 |
| 06/28/17 | | <0.0025 | 0.00779 | 0.0842 | <0.001 | <0.001 | <0.005 | <0.005 | 0.370 | <0.001 | <0.010 | <0.0002 | 0.00806 | <0.005 | <0.0015 | -- | -- | 1.730 |
| 07/12/17 | | <0.0025 | 0.0077 | 0.0819 | <0.001 | <0.001 | <0.005 | <0.005 | 0.350 | <0.001 | <0.010 | <0.0002 | 0.0076 | <0.005 | <0.0015 | -- | -- | 1.012 |
| 07/20/17 | | <0.0025 | 0.001 | 0.0010 | <0.001 | <0.001 | <0.005 | <0.005 | 0.390 | <0.001 | <0.010 | <0.0002 | 0.001 | <0.005 | <0.0015 | -- | -- | 0.3660 |
| 06/22/18 | | <0.0025 | 0.00861 | 0.0912 | <0.001 | <0.001 | <0.005 | <0.005 | 0.410 | <0.001 | 0.00924 J | <0.0002 | 0.00837 | <0.005 | <0.0015 | <0.309 | <1.243 | <1.55 |
| 09/18/18 | | NA | 0.008 | 0.0828 | NA | NA | <0.002 | <0.003 | 0.353 J | 0.000349 J | 0.0107 | NA | 0.0274 | NA | NA | <0.196 | 1.06 | 1.256 |
| 06/03/19 | | <0.0008 | 0.00799 | 0.0894 | <0.0003 | <0.0003 | <0.002 | <0.003 | 0.438 | <0.0003 | 0.00968 J | <0.00008 | 0.00884 | <0.0020 | <0.0005 | <0.407 | <0.623 | <1.03 |
| 10/02/19 | | <0.0008 | 0.00775 | 0.0876 | <0.0003 | <0.0003 | <0.002 | <0.003 | 0.357 J | <0.0003 | 0.00875 J | <0.00008 | 0.00875 | <0.0020 | <0.0005 | 0.715 | 1.23 | 1.94 |
| 06/09/20 | | <0.0008 | 0.00799 | 0.078 | <0.0003 | <0.0003 | <0.002 | <0.003 | 0.4 | <0.0003 | 0.0113 | <0.00008 | 0.0357 | <0.002 | <0.0005 | 0.00643 | 0.127 | 0.134 |
| 10/6/2020 | | <0.000800 | 0.00768 | 0.0912 | <0.000300 | <0.000300 | <0.00200 | 0.00319 J | 0.512 | <0.000300 | 0.00900 J | <0.0000800 | 0.00924 | <0.00200 | <0.000500 | 1.02 | 0.621 | 1.64 |

TABLE 4
APPENDIX IV ANALYTICAL RESULTS
COLETO CREEK PRIMARY ASH POND

| Sample Location | Date Sampled | Sb | As | Ba | Be | Cd | Cr | Co | Fl | Pb | Li | Hg | Mo | Se | Tl | Ra 226 | Ra 228 | Ra 226/228 Combined |
|-----------------|--------------|-----------|---------|--------|-----------|-----------|----------|-----------|-------|------------|-----------|------------|-----------|----------|-----------|--------|---------|---------------------|
| MW-9 | 03/30/17 | <0.0025 | 0.00909 | 0.121 | <0.001 | <0.001 | <0.005 | <0.005 | 1.130 | 0.00217 | <0.010 | <0.0002 | 0.0747 | <0.005 | <0.0015 | -- | -- | 1.353 |
| | 05/10/17 | <0.0025 | 0.00996 | 0.105 | <0.001 | <0.001 | <0.005 | <0.005 | 1.290 | 0.00433 | <0.010 | <0.0002 | 0.0900 | <0.005 | <0.0015 | -- | -- | 0.4800 |
| | 05/17/17 | <0.0025 | 0.00958 | 0.101 | <0.001 | <0.001 | <0.005 | <0.005 | 1.260 | 0.00377 | <0.010 | <0.0002 | 0.0899 | <0.005 | <0.0015 | -- | -- | 0.3600 |
| | 06/07/17 | <0.0025 | 0.0093 | 0.100 | <0.001 | <0.001 | <0.005 | <0.005 | 1.260 | <0.001000 | <0.010 | <0.0002 | 0.0926 | <0.005 | <0.0015 | -- | -- | 0.4760 |
| | 06/21/17 | <0.0025 | 0.00937 | 0.119 | <0.001 | <0.001 | <0.005 | <0.005 | 1.390 | 0.00136 | <0.010 | <0.0002 | 0.1020 | <0.005 | <0.0015 | -- | -- | 1.579 |
| | 06/26/17 | <0.0025 | 0.0107 | 0.114 | <0.001 | <0.001 | 0.0102 | <0.005 | 1.400 | 0.00217 | <0.010 | <0.0002 | 0.1060 | <0.005 | <0.0015 | -- | -- | 1.023 |
| | 07/11/17 | <0.0025 | 0.0105 | 0.103 | <0.001 | <0.001 | 0.00566 | <0.005 | 1.300 | 0.00124 | <0.010 | <0.0002 | 0.1050 | <0.005 | <0.0015 | -- | -- | 0.8630 |
| | 07/19/17 | <0.0025 | 0.0103 | 0.101 | <0.001 | <0.001 | <0.005 | <0.005 | 1.400 | <0.001000 | <0.010 | <0.0002 | 0.1130 | <0.005 | <0.0015 | -- | -- | 0.5840 |
| | 06/21/18 | <0.0025 | 0.0104 | 0.100 | <0.001 | <0.001 | <0.005 | <0.005 | 1.500 | <0.00072 J | <0.01 | <0.0002 | 0.0617 | <0.005 | <0.0015 | 0.608 | <1.303 | 1.91 |
| | 09/18/18 | NA | 0.0103 | 0.0985 | NA | NA | <0.002 | <0.003 | 1.100 | <0.000300 | 0.00639 J | NA | 0.0502 | NA | NA | 0.618 | <0.638 | 1.26 |
| | 06/05/19 | <0.0008 | 0.0109 | 0.102 | <0.0003 | <0.0003 | <0.002 | <0.003 | 1.380 | <0.0003 | 0.00545 J | <0.00008 | 0.0683 | <0.002 | <0.0005 | <0.402 | <0.683 | <1.085 |
| | 10/03/19 | <0.0008 | 0.0109 | 0.128 | 0.00069 J | <0.0003 | <0.002 | 0.00337 J | 1.410 | 0.00876 | 0.0064 J | <0.00008 | 0.0507 | 0.0041 J | <0.0005 | 0.577 | 0.747 | 1.32 |
| | 06/09/20 | <0.0008 | 0.0126 | 0.0865 | <0.0003 | <0.0003 | <0.002 | <0.003 | 1.58 | 0.000577 J | <0.005 | <0.00008 | 0.0774 | <0.002 | <0.0005 | 0.132 | -0.0432 | 0.132 |
| | 10/6/2020 | <0.000800 | 0.0225 | 0.0786 | <0.000300 | <0.000300 | <0.00200 | <0.00300 | 1.73 | <0.000300 | <0.00500 | <0.0000800 | 0.0616 | <0.00200 | <0.000500 | 0.14 | 1.51 | 1.65 |
| MW-10 | 03/30/17 | <0.0025 | 0.0110 | 0.0844 | <0.001 | <0.001 | <0.005 | <0.005 | 0.540 | <0.001 | 0.0179 | <0.0002 | 0.0342 | <0.005 | <0.0015 | -- | -- | 1.439 |
| | 05/10/17 | <0.0025 | 0.0146 | 0.0554 | <0.001 | <0.001 | 0.00533 | <0.005 | 0.830 | <0.001 | 0.0122 | <0.0002 | 0.102 | <0.005 | <0.0015 | -- | -- | 0.8880 |
| | 05/16/17 | <0.0025 | 0.0150 | 0.0598 | <0.001 | <0.001 | <0.005 | <0.005 | 0.810 | <0.001 | 0.0123 | <0.0002 | 0.0987 | <0.005 | <0.0015 | -- | -- | 0.1830 |
| | 06/08/17 | <0.0025 | 0.0144 | 0.0544 | <0.001 | <0.001 | <0.005 | <0.005 | 0.840 | <0.001 | 0.0115 | <0.0002 | 0.106 | <0.005 | <0.0015 | -- | -- | 0.06700 |
| | 06/21/17 | <0.0025 | 0.0149 | 0.054 | <0.001 | <0.001 | <0.005 | <0.005 | 0.840 | <0.001 | 0.0133 | <0.0002 | 0.113 | <0.005 | <0.0015 | -- | -- | 0.7090 |
| | 06/26/17 | <0.0025 | 0.0160 | 0.0587 | <0.001 | <0.001 | 0.0177 | <0.005 | 0.840 | <0.001 | 0.0137 | <0.0002 | 0.116 | <0.005 | <0.0015 | -- | -- | 0.7180 |
| | 07/11/17 | <0.0025 | 0.0149 | 0.0508 | <0.001 | <0.001 | <0.005 | <0.005 | 0.840 | <0.001 | 0.0119 | <0.0002 | 0.114 | <0.005 | <0.0015 | -- | -- | 1.713 |
| | 07/19/17 | <0.0025 | 0.0146 | 0.0633 | <0.001 | <0.001 | 0.00963 | <0.005 | 0.860 | <0.001 | 0.0127 | <0.0002 | 0.121 | <0.005 | <0.0015 | -- | -- | 2.132 |
| | 06/22/18 | <0.0025 | 0.0154 | 0.0692 | <0.001 | <0.001 | <0.005 | <0.005 | 0.88 | <0.00095 J | 0.0122 | <0.0002 | 0.134 | <0.005 | <0.0015 | <0.212 | <1.192 | <1.40 |
| | 09/18/18 | NA | 0.0140 | 0.0446 | NA | NA | <0.002 | <0.003 | 0.759 | <0.0003 | 0.0141 | NA | 0.125 | NA | NA | 0.151 | <0.848 | 0.999 |
| | 06/03/19 | <0.0008 | 0.0142 | 0.0420 | <0.0003 | <0.0003 | <0.002 | <0.003 | 0.953 | <0.0003 | 0.0139 | <0.00008 | 0.109 | <0.002 | <0.0005 | <0.203 | 0.814 | 1.017 |
| | 10/02/19 | <0.0008 | 0.0139 | 0.0406 | <0.0003 | <0.0003 | <0.002 | <0.003 | 0.891 | <0.0003 | 0.0127 | <0.00008 | 0.106 | <0.002 | <0.0005 | <0.288 | 0.901 | 0.901 |
| | 06/09/20 | <0.0008 | 0.014 | 0.0444 | <0.0003 | <0.0003 | <0.002 | 0.00334 J | 0.818 | <0.0003 | 0.013 | <0.00008 | 0.088 | <0.002 | <0.0005 | 0.0959 | 1.22 | 1.31 |
| | 10/6/2020 | <0.000800 | 0.0139 | 0.0411 | <0.000300 | <0.000300 | <0.00200 | 0.00390 J | 1.05 | <0.000300 | 0.0127 | <0.0000800 | 0.0865 | <0.00200 | <0.000500 | 0.0332 | 1.68 | 1.71 |
| MW-11 | 05/10/17 | <0.0025 | 0.0156 | 0.0899 | <0.001 | <0.001 | <0.005 | <0.005 | 0.82 | 0.00239 | 0.0125 | <0.0002 | 0.0082 | <0.005 | <0.0015 | -- | -- | 0.4560 |
| | 05/16/17 | <0.0025 | 0.018 | 0.0869 | <0.001 | <0.001 | 0.00731 | <0.005 | 0.85 | 0.0113 | 0.0144 | <0.0002 | 0.00841 | <0.005 | <0.0015 | -- | -- | 1.418 |
| | 05/18/17 | <0.0025 | 0.0188 | 0.0779 | <0.001 | <0.001 | <0.005 | <0.005 | 0.94 | 0.00204 | 0.0122 | <0.0002 | 0.00781 | <0.005 | <0.0015 | -- | -- | 0.6390 |
| | 06/07/17 | <0.0025 | 0.0175 | 0.0835 | <0.001 | <0.001 | <0.005 | <0.005 | 0.93 | 0.00171 | 0.0137 | <0.0002 | 0.00744 | <0.005 | <0.0015 | -- | -- | 0.5020 |
| | 06/21/17 | <0.0025 | 0.0203 | 0.0822 | <0.001 | <0.001 | <0.005 | <0.005 | 1.04 | 0.00322 | 0.0136 | <0.0002 | 0.00659 | <0.005 | <0.0015 | -- | -- | 1.084 |
| | 06/26/17 | <0.0025 | 0.0237 | 0.0954 | <0.001 | <0.001 | 0.0131 | <0.005 | 1.00 | 0.00593 | 0.0176 | <0.0002 | 0.00796 | <0.005 | <0.0015 | -- | -- | 3.067 |
| | 07/11/17 | <0.0025 | 0.0212 | 0.0725 | <0.001 | <0.001 | <0.005 | <0.005 | 1.00 | <0.001 | 0.012 | <0.0002 | 0.00765 | <0.005 | <0.0015 | -- | -- | 0.7530 |
| | 07/19/17 | <0.0025 | 0.0224 | 0.0709 | <0.001 | <0.001 | 0.00762 | <0.005 | 1.01 | 0.0018 | 0.0137 | <0.0002 | 0.00783 | <0.005 | <0.0015 | -- | -- | 1.551 |
| | 06/21/18 | <0.0025 | 0.0367 | 0.0805 | <0.001 | <0.001 | <0.005 | <0.005 | 0.96 | 0.00241 | 0.0135 | <0.0002 | 0.00465 | <0.005 | <0.0015 | <0.234 | <1.312 | <1.55 |
| | 09/18/18 | NA | 0.0382 | 0.0645 | NA | NA | <0.002 | <0.003 | 0.754 | <0.0003 | 0.0139 | NA | 0.00445 J | NA | NA | <0.188 | 0.597 | 0.785 |
| | 06/03/19 | <0.0008 | 0.0379 | 0.0834 | <0.0003 | <0.0003 | <0.002 | <0.003 | 0.837 | <0.0003 | 0.0154 | <0.00008 | 0.00316 J | <0.002 | <0.0005 | <0.481 | 0.991 | 1.472 |
| | 10/02/19 | <0.0008 | 0.0379 | 0.0744 | <0.0003 | <0.0003 | <0.002 | <0.003 | 0.768 | 0.000391 J | 0.014 | <0.00008 | 0.00259 J | <0.002 | <0.0005 | 1.57 | 0.478 | 2.040 |
| | 06/09/20 | <0.0008 | 0.0293 | 0.0948 | <0.0003 | <0.0003 | <0.002 | <0.003 | 0.571 | 0.000675 J | 0.0156 | <0.00008 | 0.00215 J | <0.002 | <0.0005 | 0.163 | 1.31 | 1.480 |
| | 10/6/2020 | <0.000800 | 0.0159 | 0.105 | <0.000300 | <0.000300 | <0.00200 | <0.00300 | 0.767 | 0.000320 J | 0.0165 | <0.0000800 | 0.00340 J | <0.00200 | <0.000500 | 0.354 | 0.53 | 0.884 |

Notes:

1. Ra 226/228 concentrations in pCi/L. All other concentrations in mg/L.
2. J - concentration is below sample quantitation limit; result is an estimate.
3. Non-detect Ra isotope results were assigned a value equal to the minimum detectable concentration.
4. NA = Not analyzed (groundwater sample analyses for the second semi-annual sampling events were limited to Appendix IV parameters detected during the preceding first semi-annual sampling event in accordance with 40 CFR § 257.95(d)(1)).



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2021 Annual Groundwater Monitoring and Corrective Action Report - Revision 1

Coletto Creek Primary Ash Pond - Fannin, Texas

Prepared for:

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November 2022

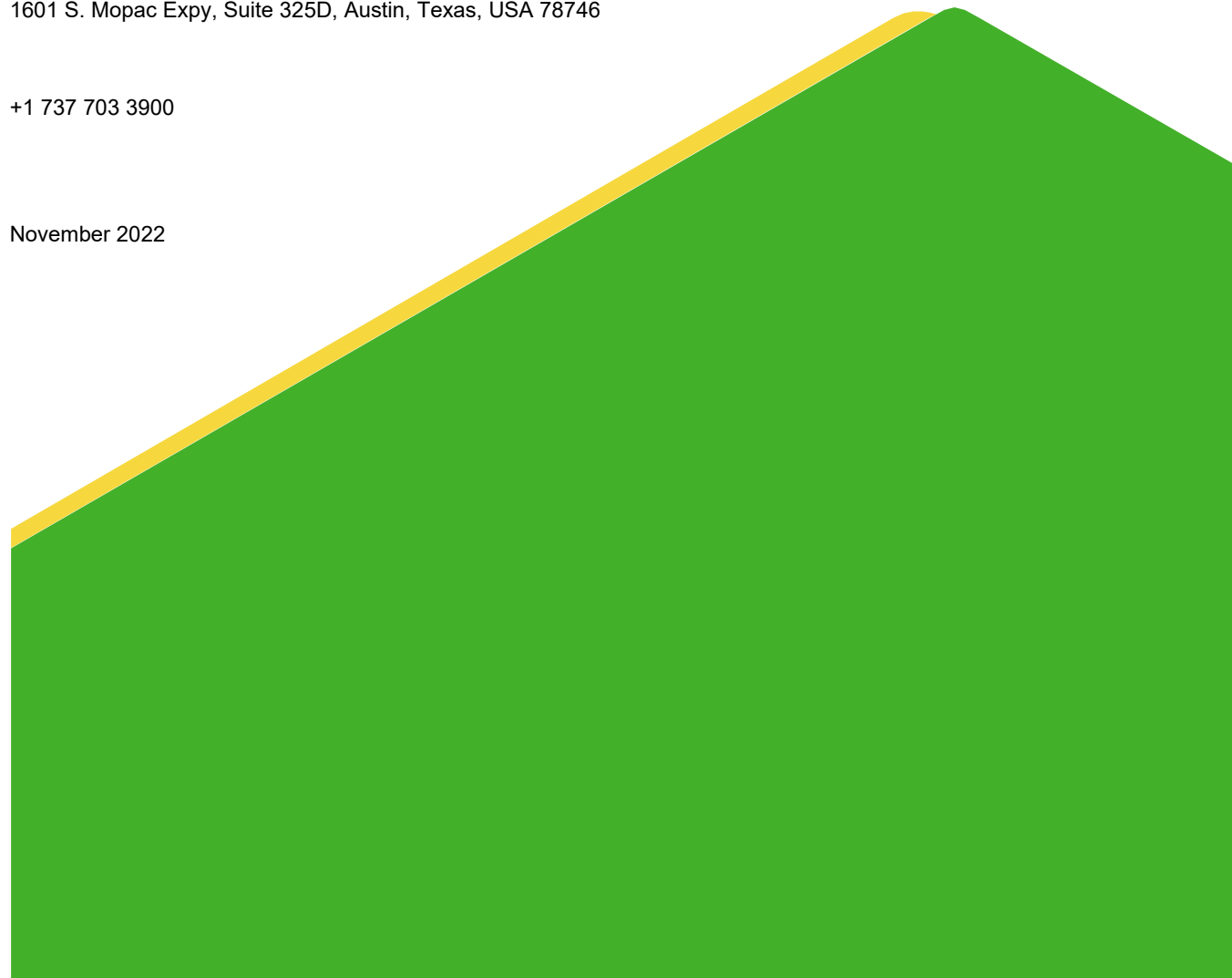


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ACRONYMS AND ABBREVIATIONS

| | |
|--------|---|
| CCR | Coal Combustion Residuals |
| C.F.R. | Code of Federal Regulations |
| GWPS | Groundwater Protection Standard |
| MCL | Maximum Concentration Level |
| mg/L | Milligrams per Liter |
| NA | Not Applicable |
| OBG | O'Brien & Gere Engineers, Inc. |
| SSI | Statistically Significant Increase |
| SSL | Statistically Significant Level |
| T.A.C. | Texas Administrative Code |
| TCEQ | Texas Commission on Environmental Quality |
| USEPA | United States Environmental Protection Agency |

DOCUMENT REVISION RECORD

| Issue No. | Date | Details of Revisions |
|-------------------|------------------|---|
| Revision 0 | January 31, 2022 | Original Document |
| Revision 1 | November 2022 | Added laboratory analytical reports, documentation on statistical evaluation of Appendix IV groundwater data, groundwater potentiometric surface maps, and professional seals to figures where applicable |

EXECUTIVE SUMMARY

Golder Associates USA Inc. (Golder), Member of WSP, has prepared this report on behalf of Coletto Creek Power LLC to satisfy the 2021 annual groundwater monitoring and corrective action reporting requirements of 40 C.F.R. Part 257 and 30 T.A.C. Chapter 352 for the Primary Ash Pond (the “CCR unit”) at the Coletto Creek Power Station in Fannin, Texas. The CCR unit and CCR monitoring well network are shown on Figure 1.

At the beginning and end of the 2021 reporting period, the CCR unit was operating under an Assessment Monitoring Program as described in § 257.95. The Assessment Monitoring Program was established on May 9, 2018. No constituents listed in Appendix IV to Part 257 were detected at statistically significant levels (SSLs) above groundwater protection standards (GWPSs) during 2021. The Assessment Monitoring Program will continue during 2022 in accordance with § 257.95.

1.0 INTRODUCTION

The CCR Rule (40 C.F.R. 257 Subpart D - *Standards for the Receipt of Coal Combustion Residuals in Landfills and Surface Impoundments*) was promulgated by the United States Environmental Protection Agency (USEPA) to regulate the management and disposal of CCRs as solid waste under Resource Conservation and Recovery Act (RCRA) Subtitle D. TCEQ has adopted portions of the federal CCR rule at 30 T.A.C. Chapter 352 (Texas CCR Rule), and USEPA published its final approval of the Texas CCR rule on June 28, 2021. See 86 Fed. Reg. 33,892 (June 28, 2021). The Texas CCR Rule became effective on July 28, 2021, and it adopts and incorporates by reference the requirements for the annual groundwater monitoring report located at 40 C.F.R. §257.90. See 30 T.A.C. § 352.901. It further adopts and incorporates by reference the Federal CCR Program requirements for detection and assessment monitoring in 30 T.A.C. §352.941 and 30 T.A.C. §352.951, respectively. Pursuant to 30 T.A.C. § 352.902, this report will be submitted to TCEQ for review no later than 30 days after the report has been placed in the facility's operating record. For existing CCR landfills and surface impoundments, the CCR Rule requires that the owner or operator prepare an annual groundwater monitoring and corrective action report to document the status of the groundwater monitoring and corrective action program for the CCR unit for the previous calendar year. Per §257.90(e) of the CCR Rule, the report should contain the following information, to the extent available:

- (1) A map, aerial image, or diagram showing the CCR unit and all background (or upgradient) and downgradient monitoring wells, to include the well identification numbers, that are part of the groundwater monitoring program for the CCR unit;
- (2) Identification of any monitoring wells that were installed or decommissioned during the preceding year, along with a narrative description of why those actions were taken;
- (3) In addition to all the monitoring data obtained under §§ 257.90 through 257.98, a summary including the number of groundwater samples that were collected for analysis for each background and downgradient well, the dates the samples were collected, and whether the sample was required by the detection monitoring or assessment monitoring programs;
- (4) A narrative discussion of any transition between monitoring programs (e.g., the date and circumstances for transitioning from detection monitoring to assessment monitoring in addition to identifying the constituent(s) detected at a statistically significant increase over background levels); and
- (5) Other information required to be included in the annual report as specified in §§ 257.90 through 257.98.
- (6) A section at the beginning of the annual report that provides an overview of the current status of groundwater monitoring and corrective action programs for the CCR unit. At a minimum, the summary must specify all of the following:
 - (i) At the start of the current annual reporting period, whether the CCR unit was operating under the detection monitoring program in §257.94 or the assessment monitoring program in §257.95;

- (ii) At the end of the current annual reporting period, whether the CCR unit was operating under the detection monitoring program in § 257.94 or the assessment monitoring program in § 257.95;
- (iii) If it was determined that there was a statistically significant increase over background for one or more constituents listed in appendix III to this part pursuant to § 257.94(e):
 - (A) Identify those constituents listed in appendix III to this part and the names of the monitoring wells associated with such an increase; and
 - (B) Provide the date when the assessment monitoring program was initiated for the CCR unit.
- (iv) If it was determined that there was a SSL above the groundwater protection standard for one or more constituents listed in appendix IV to this part pursuant to § 257.95(g) include all of the following:
 - (A) Identify those constituents listed in appendix IV to this part and the names of the monitoring wells associated with such an increase;
 - (B) Provide the date when the assessment of corrective measures was initiated for the CCR unit;
 - (C) Provide the date when the public meeting was held for the assessment of corrective measures for the CCR unit; and
 - (D) Provide the date when the assessment of corrective measures was completed for the CCR unit.
- (v) Whether a remedy was selected pursuant to § 257.97 during the current annual reporting period, and if so, the date of remedy selection; and
- (vi) Whether remedial activities were initiated or are ongoing pursuant to § 257.98 during the current annual reporting period.

2.0 MONITORING AND CORRECTIVE ACTION PROGRAM STATUS

O'Brien & Gere Engineers, Inc. (OBG) collected the initial Detection Monitoring Program groundwater samples from the Primary Ash Pond CCR monitoring well network in November 2017. OBG completed an evaluation of those data in 2018 using procedures described in the Statistical Analysis Plan (OBG, 2017) to identify statistically significant increases (SSIs) of Appendix III parameters over background concentrations. The Detection Monitoring Program sampling dates and parameters are summarized in the following table:

Detection Monitoring Program Summary

| Sampling Dates | Parameters | SSIs | Assessment Monitoring Program Established |
|--------------------|--------------|------|---|
| November 7-8, 2017 | Appendix III | Yes | May 9, 2018 |

Alternate source evaluations were inconclusive for one or more of the SSIs. Consequently, an Assessment Monitoring Program was initiated and established for the Primary Ash Pond CCR unit in 2018 in accordance with § 257.94(e)(2).

Assessment Monitoring Program groundwater samples were collected from the CCR groundwater monitoring network in 2018, as required by the CCR Rule. OBG collected the initial 2018 Assessment Monitoring Program groundwater samples in June 2018. Subsequent Assessment Monitoring Program sampling events have been conducted by Golder on a semi-annual basis, as required by the CCR Rule. All CCR groundwater monitoring wells were sampled for Appendix III and Appendix IV constituents during the first and second semi-annual sampling events of each year. The Assessment Monitoring Program sampling dates and results are summarized in the following table:

Assessment Monitoring Program Summary

| Sampling Dates | Analytical Data Receipt Date | Parameters | SSL(s) | SSL(s) Determination Date | Corrective Measures Assessment Initiated |
|--------------------------|------------------------------|-----------------------------|--------|---------------------------|--|
| June 19-25, 2018 | August 7, 2018 | Appendix III Appendix IV | No | NA | NA |
| Sept. 18, 2018 | October 12, 2018 | Appendix III Appendix IV | No | NA | NA |
| June 3-5, 2019 | July 12, 2019 | Appendix III Appendix IV | No | NA | NA |
| October 2-3, 2019 | November 5, 2019 | Appendix III Appendix IV | No | NA | NA |
| June 9, 2020 | July 15, 2020 | Appendix III Appendix IV | No | NA | NA |
| October 6, 2020 | November 9, 2020 | Appendix III Appendix IV | No | NA | NA |
| June 2 and June 25, 2021 | July 30, 2021 | Appendix III Appendix IV | No | NA | NA |
| September 28, 2021 | November 9, 2021 | Appendix III Appendix IV | No | NA | NA |

Notes:

NA - not applicable

The statistical background prediction limits used to assess Appendix III data and the GWPSs used to assess Appendix IV data are summarized in Tables 1 and 2, respectively. Appendix III and Appendix IV sample analytical data are summarized in Tables 3 and 4, respectively, and the laboratory analytical reports are provided in Attachment 1. Statistical analysis of the 2021 sample data was performed in accordance with the USEPA Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities-Unified Guidance (USEPA 2009). The statistical analysis included an evaluation of statistical confidence intervals based on Appendix IV sample data collected from downgradient monitoring wells. Statistically significant levels (SSLs) above GWPSs are indicated if the 95% lower confidence limit of a particular parameter's data population exceeds the GWPS. Based on the Appendix IV sample data, none of the Appendix IV parameters are currently present at SSLs above GWPSs. Graphical representations of the statistical analysis performed on the 2021 data are provided in Attachment 2.

3.0 KEY ACTIONS COMPLETED IN 2021

Assessment Monitoring Program groundwater monitoring events were completed in June and September 2021. The number of groundwater samples that were collected for analysis for each background and downgradient well, the dates the samples were collected, and the analytical results for the groundwater samples are summarized in Table 3 (Appendix III parameters) and Table 4 (Appendix IV parameters).

No CCR wells were installed or decommissioned in 2021.

Water elevations measured in the CCR wells during the semi-annual groundwater sampling events were used to develop groundwater potentiometric surface maps, which are presented in Attachment 3. The inferred direction of groundwater flow was generally to the southeast during both semi-annual ground sampling events in 2021.

4.0 PROBLEMS ENCOUNTERED AND ACTIONS TO RESOLVE THE PROBLEMS

No problems were encountered with the CCR groundwater monitoring program in 2021.

5.0 KEY ACTIVITIES PLANNED FOR 2022

The following key activities are planned for 2022:

- Luminant submitted a registration application to TCEQ under the Texas CCR Rule for the Coletto Creek Primary Ash Pond on January 24, 2022.
- Continue the Assessment Monitoring Program in accordance with applicable provisions of 40 C.F.R. §257.95 and 30 T.A.C. §352.951.

6.0 REFERENCES

O'Brien & Gere Engineers, Inc. (OBG), 2017. Statistical Method Certification, CCR Unit: Coletto Creek Power, LP; Coletto Creek Power Station; Coletto Creek Primary Ash Pond.

USEPA, 2009. Unified Guidance Document: Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, EPA 530/R-09-007, March.

Signature Page

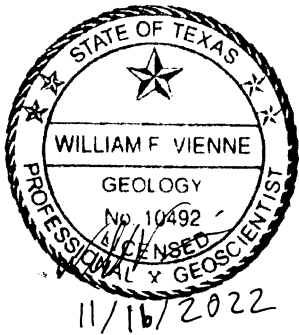
Golder Associates Inc.



William F. Vienne
Senior Hydrogeologist



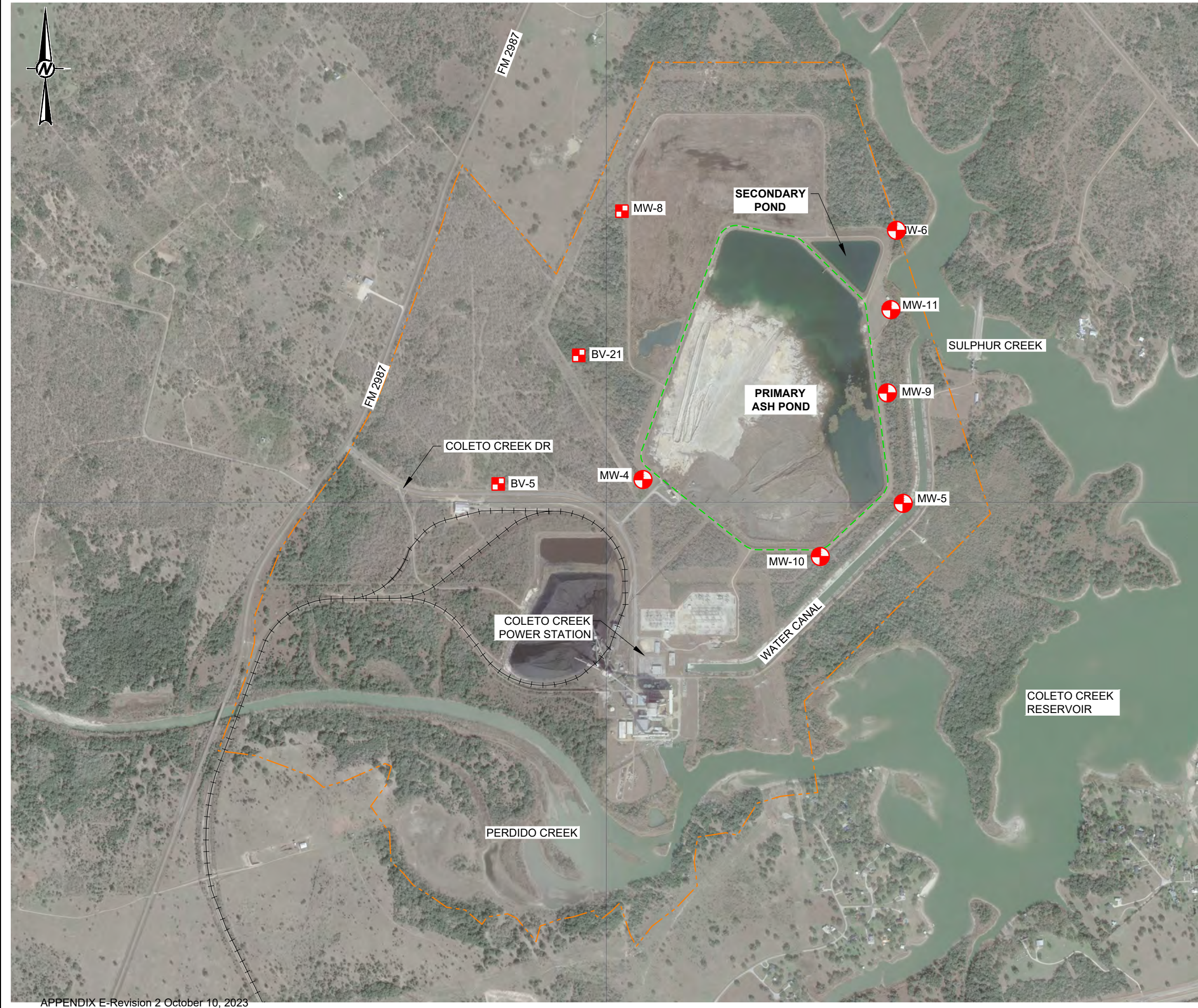
Patrick J. Behling
Principal Engineer



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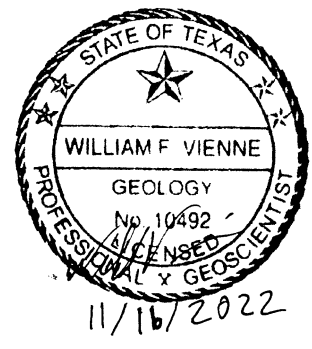
FIGURES

Path: \\golder-gb.com\projects\offices\houston\projects - round rock\202020142034 - jminian\p\deliverables - COLETO CREEK\1 - Facility Layout Map.dwg | Last Edited By: rsalazar | Date: 2021-12-14 | Time: 4:55:59 PM

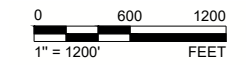


LEGEND

- PROPERTY BOUNDARY
- CCR MONITORING UNIT
- DOWNGRADIENT CCR MONITORING WELL
- UPGRADIENT CCR MONITORING WELL
- RAILROAD



REFERENCE(S)
 BASE MAP TAKEN FROM GOOGLE EARTH, IMAGERY DATED 1/15/21.



CLIENT
 COLETO CREEK POWER LP

PROJECT
 COLETO CREEK POWER STATION
 FANNIN, TEXAS

TITLE
 FACILITY LAYOUT MAP

| | | |
|------------|------------|------------|
| CONSULTANT | YYYY-MM-DD | 2021-12-14 |
| DESIGNED | RS | |
| PREPARED | RS | |
| REVIEWED | WFV | |
| APPROVED | WFV | |



IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

TABLES

Table 1
Appendix III Statistical Background Values
Coletto Creek Primary Ash Pond

| Parameter | Statistical Background Value |
|-------------------------------|-------------------------------------|
| Boron (mg/L) | 1.26 |
| Calcium (mg/L) | 143 |
| Chloride (mg/L) | 118 |
| Fluoride (mg/L) | 0.61 |
| field pH (s.u.) | 6.51 7.33 |
| Sulfate (mg/L) | 148 |
| Total Dissolved Solids (mg/L) | 966 |

Table 2
Groundwater Protection Standards
Coletto Creek Primary Ash Pond

| Parameter | Groundwater Protection Standard |
|------------------------|--|
| Antimony (mg/L) | 0.006 |
| Arsenic (mg/L) | 0.128 |
| Barium (mg/L) | 2.0 |
| Beryllium (mg/L) | 0.004 |
| Cadmium (mg/L) | 0.005 |
| Chromium (mg/L) | 0.10 |
| Cobalt (mg/L) | 0.0499 |
| Fluoride (mg/L) | 4.0 |
| Lead (mg/L) | 0.015 |
| Lithium (mg/L) | 0.04 |
| Mercury (mg/L) | 0.002 |
| Molybdenum (mg/L) | 0.10 |
| Selenium (mg/L) | 0.05 |
| Thallium (mg/L) | 0.002 |
| Radium 226+228 (pCi/L) | 5.0 |

**TABLE 3
APPENDIX III ANALYTICAL RESULTS
COLETO CREEK PRIMARY ASH POND**

| Sample Location | Date Sampled | B | Ca | Cl | F | field pH | SO ₄ | TDS |
|-------------------------|--------------|-------|------|-------|---------|----------|-----------------|-----|
| Upgradient Wells | | | | | | | | |
| BV-5 | 03/29/17 | 1.15 | 90.5 | 118 | 0.54 | 7.01 | 147 | 860 |
| | 05/11/17 | 1.03 | 81.6 | 106 | 0.57 | 6.89 | 148 | 862 |
| | 05/16/17 | 1.17 | 99 | 107 | 0.55 | 6.9 | 145 | 832 |
| | 06/07/17 | 1.11 | 88.8 | 109 | 0.56 | 6.64 | 147 | 810 |
| | 06/20/17 | 1.02 | 90.7 | 106 | 0.58 | 6.54 | 145 | 716 |
| | 06/27/17 | 1.14 | 100 | 114 | 0.55 | 6.76 | 144 | 743 |
| | 07/12/17 | 1.07 | 96.8 | 112 | 0.56 | 6.88 | 140 | 430 |
| | 07/18/17 | 1.17 | 143 | 117 | 0.56 | 6.68 | 142 | 817 |
| | 11/07/17 | 1.10 | 94.2 | 109 | 0.62 | 6.96 | 136 | 850 |
| | 06/19/18 | 1.18 | 56.4 | 112 | 0.97 | -- | 147 | 775 |
| | 09/18/18 | 1.27 | 86.2 | 145 | 0.667 | 6.53 | 146 | 904 |
| | 06/05/19 | 1.26 | 82.9 | 123 | 0.769 | 6.89 | 146 | 828 |
| | 10/03/19 | 1.31 | 72.2 | 141 | 0.753 | 7.11 | 145 | 806 |
| | 06/09/20 | 1.35 | 90.4 | 171 | 0.498 | 6.97 | 159 | 951 |
| | 10/06/20 | 1.26 | 80.2 | 133 | 1.01 | 6.54 | 155 | 843 |
| 06/02/21 | 1.35 | 108 | 201 | 0.699 | 6.62 | 190 | 1110 | |
| 09/28/21 | 1.12 | 75.6 | 146 | 0.687 | 6.74 | 169 | 925 | |
| BV-21 | 03/28/17 | 0.651 | 6.89 | 36 | 0.61 | 7.09 | 69 | 490 |
| | 05/09/17 | 0.687 | 65.2 | 38 | 0.61 | 7.04 | 55 | 410 |
| | 05/17/17 | 0.709 | 74.3 | 39 | 0.58 | 7.05 | 53 | 454 |
| | 06/06/17 | 0.657 | 69 | 40 | 0.59 | 7.11 | 49 | 452 |
| | 06/20/17 | 0.642 | 77 | 40 | 0.61 | 6.7 | 45 | 356 |
| | 06/27/17 | 0.727 | 84.9 | 40 | 0.6 | 6.97 | 46 | 420 |
| | 07/10/17 | 0.674 | 90.6 | 39 | 0.58 | 7.22 | 45 | 427 |
| | 07/18/17 | 0.618 | 84.4 | 39 | 0.6 | 6.91 | 44 | 380 |
| | 11/07/17 | 0.515 | 73.6 | 42 | 0.64 | 7.12 | 46 | 423 |
| | 06/25/18 | 0.543 | 69.3 | 38.4 | 0.62 | -- | 38.4 | 380 |
| | 09/18/18 | 0.624 | 72.1 | 33.3 | 0.479 | 6.64 | 36.4 | 416 |
| | 06/05/19 | 0.576 | 61.3 | 30.3 | 0.602 | 7.1 | 34.2 | 379 |
| | 10/03/19 | 0.534 | 63.4 | 23.9 | 0.588 | 6.82 | 33.2 | 342 |
| | 06/09/20 | 0.447 | 72.5 | 34.2 | 0.522 | 6.96 | 18.5 | 362 |
| | 10/06/20 | 0.480 | 84.0 | 40.4 | 0.677 | 6.72 | 14.5 | 390 |
| 06/02/21 | 0.399 | 79.8 | 49.5 | 0.705 | 6.91 | 32.9 | 404 | |
| 09/28/21 | 0.385 | 77.3 | 61.7 | 0.496 | 7.02 | 31.3 | 426 | |
| MW-8 | 03/28/17 | 1.2 | 7.76 | 79 | 0.49 | 7.06 | 76 | 626 |
| | 05/09/17 | 1.21 | 77.5 | 77 | 0.44 | 7.15 | 79 | 564 |
| | 05/15/17 | 1.16 | 81.2 | 76 | 0.44 | 7.01 | 79 | 558 |
| | 06/06/17 | 1.26 | 78.1 | 72 | 0.45 | 6.92 | 83.5 | 570 |
| | 06/20/17 | 1.24 | 86.5 | 67 | 0.43 | 6.7 | 89 | 476 |
| | 06/27/17 | 1.23 | 89.6 | 66 | 0.44 | 6.85 | 97 | 533 |
| | 07/10/17 | 1.24 | 92.6 | 63 | 0.44 | 7.13 | 97 | 533 |
| | 07/18/17 | 1.25 | 92.9 | 61 | 0.46 | 6.91 | 100 | 533 |
| | 11/07/17 | 1.21 | 78.8 | 61 | 0.49 | 7.08 | 100 | 540 |
| | 06/25/18 | 1.25 | 80.3 | 65.9 | 0.52 | -- | 95.2 | 565 |
| | 09/18/18 | 1.29 | 76.5 | 53.7 | 0.402 | 6.70 | 94.8 | 543 |
| | 06/05/19 | 1.11 | 65.2 | 51.4 | 0.497 | 7.10 | 79 | 515 |
| | 10/03/19 | 1.2 | 76.7 | 58.3 | 0.419 | 6.76 | 90.1 | 541 |
| | 06/09/20 | 1.33 | 73.1 | 46.4 | 0.392 J | 7.04 | 72.3 | 511 |
| | 10/06/20 | 1.18 | 81.1 | 49.5 | 0.652 | 6.84 | 72.2 | 510 |
| 06/25/21 | 0.863 | 80.1 | 53.2 | 0.673 | 6.81 | 58.8 | 489 | |
| 09/28/21 | 0.830 | 59.9 | 49.5 | 0.473 | 7.17 | 56.8 | 476 | |

**TABLE 3
APPENDIX III ANALYTICAL RESULTS
COLETO CREEK PRIMARY ASH POND**

| Sample Location | Date Sampled | B | Ca | Cl | F | field pH | SO ₄ | TDS |
|---------------------------|--------------|--------|--------|---------|---------|----------|-----------------|-----|
| Downgradient Wells | | | | | | | | |
| MW-4 | 03/28/17 | 0.287 | 9.14 | 102 | 0.61 | 9.81 | 157 | 794 |
| | 05/09/17 | 0.395 | 88.7 | 101 | 0.61 | 7.27 | 156 | 668 |
| | 05/17/17 | 0.251 | 92.1 | 101 | 0.6 | 6.93 | 157 | 702 |
| | 06/06/17 | 0.243 | 90.7 | 101 | 0.63 | 7.13 | 157 | 728 |
| | 06/20/17 | 0.254 | 99.3 | 101 | 0.62 | 6.71 | 157 | 626 |
| | 06/27/17 | 0.254 | 102 | 101 | 0.63 | 6.87 | 157 | 690 |
| | 07/10/17 | 0.271 | 111 | 101 | 0.62 | 7.16 | 158 | 670 |
| | 07/18/17 | 0.292 | 108 | 101 | 0.63 | 6.82 | 157 | 717 |
| | 11/07/17 | 0.255 | 94.5 | 99 | 0.62 | 7.12 | 155 | 700 |
| | 06/21/18 | 0.267 | 92.5 | 104 | 0.6 | -- | 159 | 665 |
| | 09/18/18 | 0.28 | 91.8 | 102 | 0.582 | 6.63 | 155 | 720 |
| | 06/05/19 | 0.379 | 85.3 | 108 | 0.67 | 6.92 | 161 | 718 |
| | 10/03/19 | 0.367 | 93.1 | 102 | 0.559 | 6.7 | 155 | 693 |
| | 06/09/20 | 0.241 | 94.9 | 24.6 | 0.205 J | 6.88 | 26.8 | 400 |
| | 10/06/20 | 0.328 | 103 | 101 | 0.736 | 6.75 | 151 | 731 |
| 06/02/21 | 0.33 | 94.1 | 98.3 | 0.769 | 6.64 | 153 | 727 | |
| 09/28/21 | 0.288 | 88.3 | 98.7 | 0.647 | 6.94 | 164 | 714 | |
| MW-5 | 03/30/17 | 0.11 | 110 | 140 | 0.51 | 6.85 | 184 | 830 |
| | 05/10/17 | 0.115 | 114 | 139 | 0.54 | 6.86 | 183 | 900 |
| | 05/16/17 | 0.215 | 121 | 139 | 0.5 | 6.81 | 183 | 848 |
| | 06/08/17 | 0.122 | 118 | 139 | 0.55 | 6.8 | 182 | 862 |
| | 06/21/17 | 0.122 | 124 | 138 | 0.53 | 6.6 | 182 | 813 |
| | 06/26/17 | 0.121 | 129 | 139 | 0.54 | 6.79 | 184 | 900 |
| | 07/11/17 | 0.111 | 120 | 138 | 0.52 | 6.91 | 184 | 797 |
| | 07/19/17 | 0.001 | 0.005 | 137 | 0.53 | 6.84 | 181 | 857 |
| | 11/08/17 | 0.149 | 116 | 138 | 0.52 | 6.92 | 183 | 883 |
| | 06/25/18 | 0.119 | 114 | 140 | 0.56 | -- | 183 | 820 |
| | 09/18/18 | 0.146 | 114 | 136 | 0.493 | 6.70 | 183 | 824 |
| | 06/03/19 | 0.146 | 113 | 143 | 0.596 | 7.06 | 187 | 864 |
| | 10/02/19 | 0.179 | 111 | 147 | 0.543 | 7.06 | 202 | 842 |
| | 06/09/20 | 0.152 | 117 | 138 | 0.370 J | 6.84 | 182 | 858 |
| | 10/6/2020 | 0.160 | 125 | 133 | 0.662 | 6.91 | 178 | 841 |
| 6/25/2021 | 0.181 | 120 | 135 | 0.661 | 6.91 | 173 | 813 | |
| 9/28/2021 | 0.150 | 103 | 127 | 0.559 | 7.15 | 190 | 831 | |
| MW-6 | 03/29/17 | 1.67 | 73.9 | 69 | 0.38 | 7.34 | 99 | 510 |
| | 05/11/17 | 1.94 | 70.6 | 70 | 0.37 | 7.1 | 110 | 490 |
| | 05/16/17 | 1.84 | 76.3 | 70 | 0.36 | 7.23 | 107 | 506 |
| | 06/07/17 | 1.8 | 73.8 | 70 | 0.37 | 6.97 | 103 | 492 |
| | 06/22/17 | 1.97 | 79.9 | 69 | 0.37 | 7.11 | 100 | 510 |
| | 06/28/17 | 1.74 | 81.8 | 69 | 0.37 | 7.16 | 99 | 570 |
| | 07/12/17 | 1.76 | 81.6 | 69 | 0.35 | 7.24 | 98 | 557 |
| | 07/20/17 | 0.005 | 0.0002 | 69 | 0.39 | 6.9 | 97 | 530 |
| | 11/07/17 | 1.72 | 76.4 | 69 | 0.39 | 7.41 | 101 | 483 |
| | 06/22/18 | 0.0171 | 76.6 | 70.7 | 0.41 | -- | 107 | 490 |
| | 09/18/18 | 2.09 | 70.8 | 72.5 | 0.353 J | 6.97 | 114 | 505 |
| | 06/03/19 | 1.9 | 73.9 | 73 | 0.438 | 7.31 | 103 | 514 |
| | 10/02/19 | 1.83 | 73.6 | 76.4 | 0.357 J | 7.29 | 115 | 507 |
| | 06/09/20 | 2.51 | 69.7 | 80.9 | 0.4 | 6.95 | 122 | 507 |
| | 10/06/20 | 1.92 | 81.9 | 73.4 | 0.512 | 6.97 | 87.9 | 510 |
| 06/25/21 | 1.75 | 79.1 | 72.7 | 0.542 | 7.02 | 89.2 | 503 | |
| 09/28/21 | 1.64 | 67.3 | 70.1 | 0.386 J | 7.26 | 92.7 | 500 | |

**TABLE 3
APPENDIX III ANALYTICAL RESULTS
COLETO CREEK PRIMARY ASH POND**

| Sample Location | Date Sampled | B | Ca | Cl | F | field pH | SO ₄ | TDS |
|-----------------|--------------|-------|------|-------|-------|----------|-----------------|-----|
| MW-9 | 03/30/17 | 3.38 | 54.5 | 71 | 1.13 | 7.35 | 62 | 406 |
| | 05/10/17 | 3.16 | 52.7 | 66 | 1.29 | 7.48 | 59 | 410 |
| | 05/17/17 | 3.18 | 53.3 | 67 | 1.26 | 7.34 | 58 | 440 |
| | 06/07/17 | 3.12 | 52 | 67 | 1.26 | 7.03 | 57 | 380 |
| | 06/21/17 | 3.44 | 60.7 | 66 | 1.39 | 7.09 | 60 | 393 |
| | 06/26/17 | 3.31 | 60.6 | 67 | 1.4 | 7.23 | 61 | 407 |
| | 07/11/17 | 3.35 | 52.1 | 64 | 1.3 | 7.51 | 60 | 927 |
| | 07/19/17 | 3.4 | 50.2 | 63 | 1.4 | 7.29 | 62 | 407 |
| | 11/08/17 | 2.84 | 49.4 | 62 | 1.56 | 7.54 | 50 | 397 |
| | 06/21/18 | 2.94 | 46.9 | 71.5 | 1.5 | -- | 35.7 | 370 |
| | 09/18/18 | 2.79 | 51.7 | 71.4 | 1.1 | 6.99 | 49.1 | 394 |
| | 06/05/19 | 4.26 | 48 | 74.7 | 1.38 | 7.4 | 66.3 | 421 |
| | 10/03/19 | 3.97 | 71.3 | 70.9 | 1.41 | 7.37 | 63.6 | 462 |
| | 06/09/20 | 4.10 | 47.4 | 63.7 | 1.58 | 7.21 | 54.9 | 397 |
| | 10/06/20 | 3.78 | 50.1 | 49.6 | 1.73 | 7.47 | 51.7 | 366 |
| 06/25/21 | 0.882 | 83.6 | 77.6 | 0.907 | 7.10 | 100 | 508 | |
| 09/28/21 | 1.23 | 74.3 | 62.9 | 0.629 | 7.21 | 79.0 | 507 | |
| MW-10 | 03/30/17 | 3.74 | 92.1 | 151 | 0.54 | 6.99 | 130 | 804 |
| | 05/10/17 | 7.32 | 56.1 | 82 | 0.83 | 7.23 | 96 | 582 |
| | 05/16/17 | 7.45 | 62.7 | 81 | 0.81 | 7.28 | 95 | 612 |
| | 06/08/17 | 7.54 | 58.1 | 77 | 0.84 | 7.23 | 92 | 604 |
| | 06/21/17 | 9.22 | 60.7 | 77 | 0.84 | 6.97 | 92 | 550 |
| | 06/26/17 | 8.21 | 63.4 | 78 | 0.84 | 7.14 | 92 | 530 |
| | 07/11/17 | 7.99 | 49.5 | 76 | 0.84 | 7.4 | 88 | 617 |
| | 07/19/17 | 8.74 | 56.6 | 74 | 0.86 | 7.25 | 86 | 533 |
| | 11/08/17 | 8.72 | 77.7 | 74 | 0.88 | 7.35 | 81 | 590 |
| | 06/22/18 | 8.47 | 84.4 | 76.7 | 0.88 | -- | -- | 550 |
| | 09/18/18 | 8.45 | 51.9 | 81.4 | 0.759 | 6.98 | 95.1 | 577 |
| | 06/03/19 | 8.28 | 43.1 | 87.2 | 0.953 | 7.52 | 97.7 | 587 |
| | 10/02/19 | 8.28 | 44.2 | 85.5 | 0.891 | 7.46 | 104 | 575 |
| | 06/09/20 | 7.58 | 46.9 | 76.9 | 0.818 | 7.13 | 96.5 | 575 |
| | 10/06/20 | 6.94 | 49.0 | 73.7 | 1.05 | 7.35 | 92.3 | 575 |
| 06/25/21 | 1.97 | 107 | 154 | 0.717 | 6.91 | 141 | 806 | |
| 09/28/21 | 7.48 | 32.9 | 54.2 | 0.96 | 7.49 | 76.8 | 507 | |
| MW-11 | 05/10/17 | 1.35 | 64.1 | 55 | 0.82 | 7.27 | 61 | 394 |
| | 05/16/17 | 1.39 | 62.3 | 52 | 0.85 | 7.29 | 58 | 362 |
| | 05/18/17 | 1.27 | 61.6 | 47.8 | 0.94 | -- | 52.4 | 390 |
| | 06/26/17 | 1.15 | 82 | 44 | 1 | 7.3 | 43 | 407 |
| | 07/11/17 | 1.23 | 44.7 | 44 | 1 | 7.55 | 42 | 603 |
| | 07/19/17 | 1.17 | 48.6 | 43 | 1.01 | 7.21 | 42 | 360 |
| | 11/08/17 | 1.13 | 52.2 | 43 | 1.02 | 7.61 | 56 | 367 |
| | 06/21/18 | 1.07 | 69.6 | 44.3 | 0.96 | -- | 61.4 | 355 |
| | 09/18/18 | 1.12 | 39.3 | 44.6 | 0.754 | 7.00 | 44.4 | 354 |
| | 06/03/19 | 1.27 | 43.4 | 42.2 | 0.837 | 7.55 | 44.8 | 372 |
| | 10/02/19 | 1.22 | 43.4 | 41.4 | 0.768 | 7.43 | 10.8 | 355 |
| | 06/09/20 | 1.20 | 56.6 | 44.4 | 0.571 | 6.88 | 67.7 | 414 |
| | 10/06/20 | 1.05 | 66.8 | 58.6 | 0.767 | 7.05 | 85.9 | 453 |
| | 06/25/21 | 0.925 | 59.1 | 74.6 | 0.876 | 7.09 | 55.9 | 400 |
| | 6/25/21 DUP | 0.98 | 59.3 | 74.8 | 0.865 | 7.09 | 56.2 | 397 |
| 09/28/21 | 0.869 | 56.6 | 71.7 | 0.742 | 7.29 | 68.4 | 415 | |
| 9/28/21 DUP | 0.397 | 77.4 | 55.7 | 0.498 | 7.29 | 31.2 | 441 | |

Notes:

1. All concentrations in mg/L. pH in standard units.
2. J - concentration is below sample quantitation limit; result is an estimate.

**TABLE 4
APPENDIX IV ANALYTICAL RESULTS
COLETO CREEK PRIMARY ASH POND**

| Sample Location | Date Sampled | Sb | As | Ba | Be | Cd | Cr | Co | F | Pb | Li | Hg | Mo | Se | Tl | Ra 226 | Ra 228 | Ra 226/228 Combined |
|------------------|--------------|-----------|---------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|-----------|-----------|-----------|--------|--------|---------------------|
| Upgradient Wells | | | | | | | | | | | | | | | | | | |
| BV-5 | 03/29/17 | <0.0025 | 0.00856 | 0.04510 | <0.001 | <0.001 | <0.005 | 0.0497 | 0.540 | <0.001 | 0.0206 | <0.0002 | 0.00925 | <0.005 | <0.0015 | -- | -- | 1.503 |
| | 05/11/17 | <0.0025 | 0.00786 | 0.03680 | <0.001 | <0.001 | <0.005 | 0.0462 | 0.570 | <0.001 | 0.018 | <0.0002 | 0.0101 | <0.005 | <0.0015 | -- | -- | 1.555 |
| | 05/16/17 | <0.0025 | 0.00885 | 0.04520 | <0.001 | <0.001 | <0.005 | 0.0495 | 0.550 | 0.00151 | 0.0171 | <0.0002 | 0.0102 | <0.005 | <0.0015 | -- | -- | 0.7550 |
| | 06/07/17 | <0.0025 | 0.00829 | 0.03760 | <0.001 | <0.001 | <0.005 | 0.0483 | 0.560 | <0.001 | 0.0207 | <0.0002 | 0.01 | <0.005 | <0.0015 | -- | -- | 1.457 |
| | 06/20/17 | <0.0025 | 0.00841 | 0.04010 | <0.001 | <0.001 | <0.005 | 0.0499 | 0.580 | <0.001 | 0.0208 | <0.0002 | 0.0114 | <0.005 | <0.0015 | -- | -- | 0.4920 |
| | 06/27/17 | <0.0025 | 0.0083 | 0.04120 | <0.001 | <0.001 | <0.005 | 0.046 | 0.550 | <0.001 | 0.0198 | <0.0002 | 0.00942 | <0.005 | <0.0015 | -- | -- | 2.247 |
| | 07/12/17 | <0.0025 | 0.00849 | 0.04160 | <0.001 | <0.001 | <0.005 | 0.0484 | 0.560 | <0.001 | 0.0188 | <0.0002 | 0.0096 | <0.005 | <0.0015 | -- | -- | 2.139 |
| | 07/18/17 | <0.0025 | 0.00951 | 0.05780 | <0.001 | <0.001 | 0.00739 | 0.0453 | 0.560 | 0.00288 | 0.022 | <0.0002 | 0.0083 | <0.005 | <0.0015 | -- | -- | 1.260 |
| | 06/19/18 | <0.0025 | 0.0106 | 0.0336 | <0.001 | <0.001 | 0.0022 J | 0.0513 J | 0.970 | <0.00074 J | 0.016 | <0.0002 | 0.0139 | <0.005 | <0.0015 | 0.327 | <1.680 | 2.01 |
| | 09/18/18 | NA | 0.0095 | 0.0436 | NA | NA | 0.00228 J | 0.0487 | 0.667 | 0.00039 J | 0.0206 | NA | 0.0102 | NA | NA | 0.302 | <0.608 | 0.91 |
| | 06/05/19 | <0.0008 | 0.0092 | 0.042 | <0.0003 | 0.00092 J | <0.002 | 0.0466 | 0.769 | 0.00144 | 0.0201 | <0.00008 | 0.0109 | <0.0020 | <0.0005 | <0.687 | <1.130 | <1.82 |
| | 10/03/19 | <0.0008 | 0.0094 | 0.0441 | <0.0003 | <0.0003 | 0.0029 J | 0.0437 | 0.753 | 0.0039 | 0.0172 | <0.00008 | 0.0122 | <0.0020 | <0.0005 | 0.928 | 1.35 | 2.28 |
| | 06/09/20 | <0.0008 | 0.0088 | 0.0462 | <0.0003 | <0.0003 | 0.00818 | 0.0486 | 0.498 | 0.00162 | 0.0201 | <0.0000800 | 0.0120 | <0.00200 | <0.000500 | 0.363 | <1.26 | 0.363 |
| | 10/06/20 | <0.000800 | 0.0098 | 0.0387 | <0.000300 | <0.000300 | 0.00226 | 0.0449 | 1.01 | <0.000300 | 0.0174 | <0.0000800 | 0.0105 | <0.00200 | <0.000500 | 0.293 | 0.709 | 1 |
| 6/2/2021 | <0.000800 | 0.00882 | 0.053 | <0.000300 | <0.000300 | 0.00262 J | 0.0437 | 0.699 | 0.000588 J | 0.0239 | <0.0000800 | 0.00768 | <0.00200 | <0.000500 | 0.325 | <0.578 | 0.325 | |
| 09/28/21 | <0.000800 | 0.0087 | 0.0365 | <0.000300 | <0.000300 | <0.00200 | 0.0433 | 0.687 | 0.000415 J | 0.0194 | <0.0000800 | 0.0102 | <0.00200 | <0.000500 | 0.239 J | 2.06 | 2.29 | |
| BV-21 | 03/28/17 | <0.0025 | 0.0954 | 0.09630 | <0.001 | <0.001 | <0.005 | 0.0083 | 0.610 | <0.001 | <0.010 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 1.390 |
| | 05/09/17 | <0.0025 | 0.108 | 0.09720 | <0.001 | <0.001 | <0.005 | 0.00852 | 0.610 | <0.001 | <0.010 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 0.7460 |
| | 05/17/17 | <0.0025 | 0.117 | 0.09440 | <0.001 | <0.001 | <0.005 | 0.00878 | 0.580 | <0.001 | <0.010 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 0.9190 |
| | 06/06/17 | <0.0025 | 0.118 | 0.09540 | <0.001 | <0.001 | <0.005 | 0.00806 | 0.590 | <0.001 | <0.010 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 0.6710 |
| | 06/20/17 | <0.0025 | 0.121 | 0.1010 | <0.001 | <0.001 | <0.005 | 0.00744 | 0.610 | <0.001 | <0.010 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 1.672 |
| | 06/27/17 | <0.0025 | 0.128 | 0.1040 | <0.001 | <0.001 | <0.005 | 0.00841 | 0.600 | <0.001 | <0.010 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 0.5200 |
| | 07/10/17 | <0.0025 | 0.123 | 0.1100 | <0.001 | <0.001 | <0.005 | 0.0086 | 0.580 | <0.001 | <0.010 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 0.8050 |
| | 07/18/17 | <0.0025 | 0.115 | 0.1010 | <0.001 | <0.001 | <0.005 | 0.00784 | 0.600 | <0.001 | <0.010 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 4.812 |
| | 06/25/18 | <0.0025 | 0.0697 | 0.104 | <0.001 | <0.001 | <0.005 | 0.00682 | 0.620 | <0.00074 J | 0.00513 J | <0.0002 | 0.00428 J | <0.005 | <0.0015 | 0.267 | <1.417 | 1.68 |
| | 09/18/18 | NA | 0.0625 | 0.109 | NA | NA | <0.002 | 0.0064 | 0.479 | 0.000555 J | 0.00624 J | NA | 0.00450 J | NA | NA | <0.31 | <0.528 | <0.838 |
| | 06/05/19 | <0.0008 | 0.0531 | 0.105 | <0.0003 | <0.0003 | <0.002 | 0.00574 | 0.602 | 0.000354 | 0.0056 J | <0.00008 | 0.00685 | <0.0020 | <0.0005 | 0.65 | <0.687 | 1.337 |
| | 10/03/19 | <0.0008 | 0.049 | 0.0963 | <0.0003 | <0.0003 | <0.002 | 0.00542 | 0.588 | 0.000333 J | <0.005 | <0.00008 | 0.00784 | <0.0020 | <0.0005 | 0.346 | 1.54 | 1.89 |
| | 06/09/20 | <0.0008 | 0.0793 | 0.132 | <0.0003 | <0.0003 | 0.007 | 0.00437 J | 0.522 | 0.00033 J | <0.005 | <0.00008 | 0.00698 | <0.0020 | <0.0005 | 0.211 | 1.15 | 1.36 |
| | 10/06/20 | <0.000800 | 0.0815 | 0.157 | <0.000300 | <0.000300 | <0.00200 | 0.00411 J | 0.677 | <0.000300 | 0.00532 J | <0.0000800 | 0.00523 | <0.00200 | <0.000500 | 0.37 | <1.38 | 0.37 |
| 6/2/2021 | <0.000800 | 0.0663 | 0.176 | <0.000300 | <0.000300 | <0.00200 | 0.00441 J | 0.705 | 0.000336 J | 0.00532 J | <0.0000800 | 0.00547 | <0.00200 | <0.000500 | 0.0424 | 0.392 | 0.434 | |
| 09/28/21 | <0.000800 | 0.0603 | 0.186 | <0.000300 | <0.000300 | <0.00200 | 0.00387 J | 0.496 | <0.000300 | 0.00539 J | <0.0000800 | 0.00481 J | <0.00200 | <0.000500 | 1.02 | 1.81 | 2.83 | |
| MW-8 | 03/28/17 | <0.0025 | 0.00839 | 0.0623 | <0.001 | <0.001 | <0.005 | 0.0236 | 0.490 | <0.001 | 0.0111 | <0.0002 | 0.0154 | <0.005 | <0.0015 | -- | -- | 0.4520 |
| | 05/09/17 | <0.0025 | 0.00848 | 0.064 | <0.001 | <0.001 | <0.005 | 0.0272 | 0.440 | <0.001 | 0.0111 | <0.0002 | 0.0157 | <0.005 | <0.0015 | -- | -- | 0.4740 |
| | 05/15/17 | <0.0025 | 0.00926 | 0.064 | <0.001 | <0.001 | <0.005 | 0.0311 | 0.440 | <0.001 | 0.0112 | <0.0002 | 0.016 | <0.005 | <0.0015 | -- | -- | 0.6140 |
| | 06/06/17 | <0.0025 | 0.00912 | 0.0616 | <0.001 | <0.001 | 0.00744 | 0.0308 | 0.450 | <0.001 | 0.0107 | <0.0002 | 0.0157 | <0.005 | <0.0015 | -- | -- | 0.1320 |
| | 06/20/17 | <0.0025 | 0.00885 | 0.0669 | <0.001 | <0.001 | <0.005 | 0.0297 | 0.430 | <0.001 | 0.0121 | <0.0002 | 0.0171 | <0.005 | <0.0015 | -- | -- | 0.5380 |
| | 06/27/17 | <0.0025 | 0.00939 | 0.0633 | <0.001 | <0.001 | <0.005 | 0.0314 | 0.440 | <0.001 | 0.0115 | <0.0002 | 0.0163 | <0.005 | <0.0015 | -- | -- | 0.9390 |
| | 07/10/17 | <0.0025 | 0.00902 | 0.0631 | <0.001 | <0.001 | <0.005 | 0.031 | 0.440 | <0.001 | 0.0112 | <0.0002 | 0.0165 | <0.005 | <0.0015 | -- | -- | 0.8040 |
| | 07/18/17 | <0.0025 | 0.00937 | 0.0635 | <0.001 | <0.001 | <0.005 | 0.0352 | 0.460 | <0.001 | 0.0118 | <0.0002 | 0.0185 | <0.005 | <0.0015 | -- | -- | 2.113 |
| | 06/25/18 | <0.0025 | 0.0101 | 0.0632 | <0.001 | <0.001 | <0.005 | 0.029 | 0.520 | 0.0011 | 0.0107 | <0.0002 | 0.017 | <0.005 | <0.0015 | <0.234 | <1.204 | <1.44 |
| | 09/18/18 | NA | 0.009 | 0.0582 | NA | NA | <0.00200 | 0.0237 | 0.402 | <0.0003 | 0.0117 | NA | 0.0178 | NA | NA | <0.281 | <0.558 | <0.84 |
| | 06/05/19 | <0.0008 | 0.0095 | 0.0596 | <0.0003 | <0.0003 | <0.002 | 0.0217 | 0.497 | 0.000355 J | 0.011 | <0.00008 | 0.0156 | <0.0020 | <0.0005 | 0.528 | <0.619 | 1.147 |
| | 10/03/19 | <0.0008 | 0.0083 | 0.0607 | <0.0003 | <0.0003 | <0.002 | 0.231 | 0.419 | <0.0003 | 0.0106 | <0.00008 | 0.0144 | <0.0020 | <0.0005 | 0.224 | 0.241 | 0.465 |
| | 06/09/20 | <0.0008 | 0.0086 | 0.0599 | <0.0003 | <0.0003 | <0.002 | 0.0174 | 0.392 J | 0.000479 J | 0.0104 | <0.00008 | 0.0158 | <0.002 | <0.0005 | 0.304 | 2.64 | 2.94 |
| | 10/6/2020 | <0.000800 | 0.0086 | 0.0647 | <0.000300 | <0.000300 | <0.00200 | 0.0162 | 0.652 | <0.000300 | 0.0107 | <0.0000800 | 0.0148 | <0.00200 | <0.000500 | 1.08 | 1.65 | 2.73 |
| 6/25/2021 | <0.000800 | 0.0104 | 0.0806 | <0.000300 | <0.000300 | <0.00200 | 0.013 | 0.673 | 0.000761 J | 0.0105 | <0.0000800 | 0.0118 | <0.00200 | <0.000500 | 0.148 | 0.639 | 0.787 | |
| 09/28/21 | <0.000800 | 0.0086 | 0.0690 | <0.000300 | <0.000300 | <0.00200 | 0.0110 | 0.473 | 0.000697 J | 0.0102 | <0.0000800 | 0.0124 | <0.00200 | <0.000500 | 0.0886 | 1.23 | 1.32 | |

**TABLE 4
APPENDIX IV ANALYTICAL RESULTS
COLETO CREEK PRIMARY ASH POND**

| Sample Location | Date Sampled | Sb | As | Ba | Be | Cd | Cr | Co | F | Pb | Li | Hg | Mo | Se | Tl | Ra 226 | Ra 228 | Ra 226/228 Combined |
|---------------------------|--------------|-----------|---------|---------|-----------|-----------|----------|-----------|-----------|------------|------------|------------|-----------|-----------|-----------|--------|--------|---------------------|
| Downgradient Wells | | | | | | | | | | | | | | | | | | |
| MW-4 | 03/28/17 | <0.0025 | 0.00738 | 0.0575 | <0.001 | <0.001 | <0.005 | 0.007 | 0.610 | <0.001 | 0.0192 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 0.4600 |
| | 05/09/17 | <0.0025 | 0.00733 | 0.0576 | <0.001 | <0.001 | <0.005 | 0.007 | 0.610 | <0.001 | 0.0182 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 0.6940 |
| | 05/15/17 | <0.0025 | 0.00794 | 0.0556 | <0.001 | <0.001 | <0.005 | 0.007 | 0.600 | <0.001 | 0.0166 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 1.451 |
| | 06/06/17 | <0.0025 | 0.0077 | 0.0556 | <0.001 | <0.001 | <0.005 | 0.007 | 0.630 | <0.001 | 0.0179 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 0.1740 |
| | 06/20/17 | <0.0025 | 0.0081 | 0.0596 | <0.001 | <0.001 | 0.00877 | 0.008 | 0.620 | <0.001 | 0.0195 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 0.5430 |
| | 06/27/17 | <0.0025 | 0.00786 | 0.0554 | <0.001 | <0.001 | <0.005 | 0.007 | 0.630 | <0.001 | 0.0185 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 0.6390 |
| | 07/10/17 | <0.0025 | 0.00846 | 0.0582 | <0.001 | <0.001 | <0.005 | 0.009 | 0.620 | <0.001 | 0.0187 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 1.069 |
| | 07/18/17 | <0.0025 | 0.00815 | 0.0549 | <0.001 | <0.001 | <0.005 | 0.008 | 0.630 | <0.001 | 0.0183 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 0.1910 |
| | 06/21/18 | <0.0025 | 0.0084 | 0.0591 | <0.001 | <0.001 | <0.005 | 0.00711 | 0.600 | <0.00072 J | 0.0175 | <0.0002 | <0.005 | <0.005 | <0.0015 | 0.370 | 1.705 | 2.08 |
| | 09/18/18 | NA | 0.0079 | 0.0577 | NA | NA | <0.002 | 0.00673 | 0.582 | <0.0003 | 0.019 | NA | <0.002 | NA | NA | 1.610 | <0.543 | 2.15 |
| | 06/05/19 | <0.0008 | 0.0079 | 0.0571 | <0.0003 | <0.0003 | <0.002 | 0.00729 | 0.670 | <0.0003 | 0.0195 | <0.00008 | <0.002 | <0.0020 | <0.0005 | 0.436 | <0.547 | 0.98 |
| | 10/03/19 | <0.0008 | 0.0076 | 0.0532 | <0.0003 | <0.0003 | <0.002 | 0.00699 | 0.559 | 0.00101 | 0.017 | <0.00008 | <0.002 | <0.002 | <0.0005 | 1.85 | <0.739 | 1.85 |
| | 06/09/20 | <0.0008 | <0.002 | 0.0376 | <0.0003 | <0.0003 | <0.002 | <0.003 | 0.205 J | <0.0003 | 0.00751 J | <0.00008 | <0.0021 J | <0.002 | <0.0005 | 0.0553 | 0.264 | 0.319 |
| | 10/06/20 | <0.000800 | 0.0075 | 0.0586 | <0.0003 | <0.000300 | <0.00200 | 0.00862 | 0.736 | 0.000375 J | 0.0186 | <0.0000800 | <0.00200 | <0.00200 | <0.000500 | 0.0684 | <1.23 | 0.0684 |
| | 6/2/2021 | <0.000800 | 0.00808 | 0.0582 | <0.0003 | <0.000300 | <0.00200 | 0.00934 | 0.769 | 0.000418 J | 0.0176 | <0.0000800 | <0.00200 | <0.00200 | <0.000500 | 0.298 | 0.726 | 1.02 |
| 09/28/21 | <0.000800 | 0.0086 | 0.0543 | <0.0003 | <0.000300 | <0.00200 | 0.0104 | 0.647 | 0.00139 | 0.0181 | <0.0000800 | <0.00200 | <0.00200 | <0.000500 | 0.151 J | 1.91 | 2.06 | |
| MW-5 | 03/30/17 | <0.0025 | 0.00953 | 0.0748 | <0.001 | <0.001 | <0.005 | <0.005 | 0.510 | <0.001 | 0.0192 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 1.443 |
| | 05/10/17 | <0.0025 | 0.00955 | 0.0706 | <0.001 | <0.001 | <0.005 | <0.005 | 0.540 | <0.001 | 0.0179 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 0.6150 |
| | 05/16/17 | <0.0025 | 0.00967 | 0.0708 | <0.001 | <0.001 | <0.005 | <0.005 | 0.500 | <0.001 | 0.0181 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 0.6410 |
| | 06/08/17 | <0.0025 | 0.00908 | 0.0701 | <0.001 | <0.001 | <0.005 | <0.005 | 0.550 | <0.001 | 0.0200 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 0.1790 |
| | 06/21/17 | <0.0025 | 0.00917 | 0.0767 | <0.001 | <0.001 | <0.005 | <0.005 | 0.530 | <0.001 | 0.0197 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 0.1060 |
| | 06/26/17 | <0.0025 | 0.00955 | 0.0735 | <0.001 | <0.001 | <0.005 | <0.005 | 0.540 | <0.001 | 0.0204 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 1.112 |
| | 07/11/17 | <0.0025 | 0.00945 | 0.0712 | <0.001 | <0.001 | <0.005 | <0.005 | 0.520 | <0.001 | 0.0183 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 0.5120 |
| | 07/19/17 | <0.0025 | 0.00941 | 0.0735 | <0.001 | <0.001 | <0.005 | <0.005 | 0.530 | <0.001 | 0.0186 | <0.0002 | <0.005 | <0.005 | <0.0015 | -- | -- | 0.1910 |
| | 06/25/18 | <0.0025 | 0.01 | 0.0733 | 0.001 | <0.001 | <0.005 | <0.005 | 0.560 | <0.001 | 0.0182 | <0.0002 | <0.005 | <0.005 | <0.0015 | <0.251 | <1.369 | <1.62 |
| | 09/18/18 | NA | 0.0095 | 0.0697 | NA | NA | <0.002 | <0.003 | 0.493 | <0.0003 | 0.0195 | NA | <0.002 | NA | NA | <0.282 | <0.606 | <0.89 |
| | 06/03/19 | <0.0008 | 0.0095 | 0.0678 | 0.0003 | <0.0003 | <0.002 | <0.003 | 0.596 | <0.0003 | 0.0206 | <0.00008 | <0.002 | <0.002 | <0.0005 | <0.619 | <0.917 | <1.54 |
| | 10/02/19 | <0.0008 | 0.0092 | 0.067 | 0.0003 | <0.0003 | <0.002 | <0.003 | 0.543 | <0.0003 | 0.0187 | <0.00008 | <0.002 | <0.002 | <0.0005 | 0.47 | 0.117 | 0.587 |
| | 06/09/20 | <0.0008 | 0.0089 | 0.0689 | <0.0003 | <0.0003 | <0.002 | <0.003 | 0.370 J | <0.0003 | 0.0192 | <0.00008 | <0.002 | <0.002 | <0.0005 | 0.171 | 0.211 | 0.382 |
| | 10/06/20 | <0.000800 | 0.0093 | 0.0708 | <0.0003 | <0.000300 | <0.00200 | <0.00300 | 0.662 | <0.000300 | 0.0190 | <0.0000800 | <0.00200 | <0.00200 | <0.000500 | 0.0604 | 0.08 | 0.14 |
| | 6/25/2021 | <0.000800 | 0.00918 | 0.0652 | <0.0003 | <0.000300 | 0.00913 | <0.00300 | 0.661 | <0.000300 | 0.0189 | <0.0000800 | <0.00200 | <0.00200 | <0.000500 | 0.0362 | 0.2 | 0.236 |
| 09/28/21 | <0.000800 | 0.0089 | 0.0639 | <0.0003 | <0.000300 | <0.00200 | <0.00300 | 0.559 | <0.000300 | 0.0194 | <0.0000800 | <0.00200 | <0.00200 | <0.000500 | 0.311 | 1.74 | 2.05 | |
| MW-6 | 03/29/17 | <0.0025 | 0.00827 | 0.0900 | <0.001 | <0.001 | <0.005 | <0.005 | 0.380 | <0.001 | <0.010 | <0.0002 | 0.00749 | <0.005 | <0.0015 | -- | -- | 1.009 |
| | 05/11/17 | <0.0025 | 0.00738 | 0.0758 | <0.001 | <0.001 | <0.005 | <0.005 | 0.370 | <0.001 | 0.0101 | <0.0002 | 0.0176 | <0.005 | <0.0015 | -- | -- | 0.8250 |
| | 05/16/17 | <0.0025 | 0.00803 | 0.0784 | <0.001 | <0.001 | <0.005 | <0.005 | 0.360 | <0.001 | <0.010 | <0.0002 | 0.0131 | <0.005 | <0.0015 | -- | -- | 0.7740 |
| | 06/07/17 | <0.0025 | 0.00772 | 0.0798 | <0.001 | <0.001 | <0.005 | <0.005 | 0.370 | <0.001 | <0.010 | <0.0002 | 0.00949 | <0.005 | <0.0015 | -- | -- | 0.6640 |
| | 06/22/17 | <0.0025 | 0.00764 | 0.083 | <0.001 | <0.001 | <0.005 | <0.005 | 0.370 | <0.001 | 0.0109 | <0.0002 | 0.0084 | <0.005 | <0.0015 | -- | -- | 0.2150 |
| | 06/28/17 | <0.0025 | 0.00779 | 0.0842 | <0.001 | <0.001 | <0.005 | <0.005 | 0.370 | <0.001 | <0.010 | <0.0002 | 0.00806 | <0.005 | <0.0015 | -- | -- | 1.730 |
| | 07/12/17 | <0.0025 | 0.0077 | 0.0819 | <0.001 | <0.001 | <0.005 | <0.005 | 0.350 | <0.001 | <0.010 | <0.0002 | 0.0076 | <0.005 | <0.0015 | -- | -- | 1.012 |
| | 07/20/17 | <0.0025 | 0.001 | 0.0010 | <0.001 | <0.001 | <0.005 | <0.005 | 0.390 | <0.001 | <0.010 | <0.0002 | 0.001 | <0.005 | <0.0015 | -- | -- | 0.3660 |
| | 06/22/18 | <0.0025 | 0.0086 | 0.0912 | <0.001 | <0.001 | <0.005 | <0.005 | 0.410 | <0.001 | 0.00924 J | <0.0002 | 0.00837 | <0.005 | <0.0015 | <0.309 | <1.243 | <1.55 |
| | 09/18/18 | NA | 0.008 | 0.0828 | NA | NA | <0.002 | <0.003 | 0.353 J | 0.000349 J | 0.0107 | NA | 0.0274 | NA | NA | <0.196 | 1.06 | 1.256 |
| | 06/03/19 | <0.0008 | 0.008 | 0.0894 | <0.0003 | <0.0003 | <0.002 | <0.003 | 0.438 | <0.0003 | 0.0097 J | <0.00008 | 0.00884 | <0.0020 | <0.0005 | <0.407 | <0.62 | <1.03 |
| | 10/02/19 | <0.0008 | 0.0078 | 0.0876 | <0.0003 | <0.0003 | <0.002 | <0.003 | 0.357 J | <0.0003 | 0.0088 J | <0.00008 | 0.00875 | <0.0020 | <0.0005 | 0.715 | 1.23 | 1.94 |
| | 06/09/20 | <0.0008 | 0.008 | 0.078 | <0.0003 | <0.0003 | <0.002 | <0.003 | 0.4 | <0.0003 | 0.0113 | <0.00008 | 0.0357 | <0.002 | <0.0005 | 0.0064 | 0.127 | 0.134 |
| | 10/06/20 | <0.000800 | 0.0077 | 0.0912 | <0.0003 | <0.000300 | <0.00200 | 0.00319 J | 0.512 | <0.000300 | 0.00900 J | <0.0000800 | 0.00924 | <0.00200 | <0.000500 | 1.02 | 0.621 | 1.64 |
| | 06/25/21 | <0.000800 | 0.00778 | 0.086 | <0.0003 | <0.000300 | <0.00200 | <0.00300 | 0.542 | <0.000300 | 0.0101 | <0.0000800 | 0.00823 | <0.00200 | <0.000500 | 0.206 | 1.03 | 1.24 |
| 09/28/21 | <0.000800 | 0.0079 | 0.0896 | <0.0003 | <0.000300 | <0.00200 | <0.00300 | 0.386 J | <0.000300 | 0.00911 J | <0.0000800 | 0.00801 | <0.00200 | <0.000500 | 0.334 | 1.6 | 1.94 | |

**TABLE 4
APPENDIX IV ANALYTICAL RESULTS
COLETO CREEK PRIMARY ASH POND**

| Sample Location | Date Sampled | Sb | As | Ba | Be | Cd | Cr | Co | F | Pb | Li | Hg | Mo | Se | Tl | Ra 226 | Ra 228 | Ra 226/228 Combined |
|-----------------|--------------|-----------|---------|---------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|-----------|-----------|-----------|---------|--------|---------------------|
| MW-9 | 03/30/17 | <0.0025 | 0.00909 | 0.121 | <0.001 | <0.001 | <0.005 | <0.005 | 1.130 | 0.00217 | <0.010 | <0.0002 | 0.0747 | <0.005 | <0.0015 | -- | -- | 1.353 |
| | 05/10/17 | <0.0025 | 0.00996 | 0.105 | <0.001 | <0.001 | <0.005 | <0.005 | 1.290 | 0.00433 | <0.010 | <0.0002 | 0.0900 | <0.005 | <0.0015 | -- | -- | 0.4800 |
| | 05/17/17 | <0.0025 | 0.00958 | 0.101 | <0.001 | <0.001 | <0.005 | <0.005 | 1.260 | 0.00377 | <0.010 | <0.0002 | 0.0899 | <0.005 | <0.0015 | -- | -- | 0.3600 |
| | 06/07/17 | <0.0025 | 0.0093 | 0.100 | <0.001 | <0.001 | <0.005 | <0.005 | 1.260 | <0.001000 | <0.010 | <0.0002 | 0.0926 | <0.005 | <0.0015 | -- | -- | 0.4760 |
| | 06/21/17 | <0.0025 | 0.00937 | 0.119 | <0.001 | <0.001 | <0.005 | <0.005 | 1.390 | 0.00136 | <0.010 | <0.0002 | 0.1020 | <0.005 | <0.0015 | -- | -- | 1.579 |
| | 06/26/17 | <0.0025 | 0.0107 | 0.114 | <0.001 | <0.001 | 0.0102 | <0.005 | 1.400 | 0.00217 | <0.010 | <0.0002 | 0.1060 | <0.005 | <0.0015 | -- | -- | 1.023 |
| | 07/11/17 | <0.0025 | 0.0105 | 0.103 | <0.001 | <0.001 | 0.00566 | <0.005 | 1.300 | 0.00124 | <0.010 | <0.0002 | 0.1050 | <0.005 | <0.0015 | -- | -- | 0.8630 |
| | 07/19/17 | <0.0025 | 0.0103 | 0.101 | <0.001 | <0.001 | <0.005 | <0.005 | 1.400 | <0.001000 | <0.010 | <0.0002 | 0.1130 | <0.005 | <0.0015 | -- | -- | 0.5840 |
| | 06/21/18 | <0.0025 | 0.0104 | 0.100 | <0.001 | <0.001 | <0.005 | <0.005 | 1.500 | <0.00072 J | <0.01 | <0.0002 | 0.0617 | <0.005 | <0.0015 | 0.608 | <1.303 | 1.91 |
| | 09/18/18 | NA | 0.0103 | 0.0985 | NA | NA | <0.002 | <0.003 | 1.100 | <0.000300 | 0.00639 J | NA | 0.0502 | NA | NA | 0.618 | <0.638 | 1.26 |
| | 06/05/19 | <0.0008 | 0.0109 | 0.102 | <0.0003 | <0.0003 | <0.002 | <0.003 | 1.380 | <0.0003 | 0.0055 J | <0.00008 | 0.0683 | <0.002 | <0.0005 | <0.402 | <0.683 | <1.085 |
| | 10/03/19 | <0.0008 | 0.0109 | 0.128 | 0.00069 J | <0.0003 | <0.002 | 0.00337 J | 1.410 | 0.00876 | 0.0064 J | <0.00008 | 0.0507 | 0.0041 J | <0.0005 | 0.577 | 0.747 | 1.32 |
| | 06/09/20 | <0.0008 | 0.0126 | 0.0865 | <0.0003 | <0.0003 | <0.002 | <0.003 | 1.58 | 0.000577 J | <0.005 | <0.00008 | 0.0774 | <0.002 | <0.0005 | 0.132 | <0.96 | 0.132 |
| | 10/06/20 | <0.000800 | 0.0225 | 0.0786 | <0.0003 | <0.000300 | <0.00200 | <0.00300 | 1.73 | <0.000300 | <0.000500 | <0.0000800 | 0.0616 | <0.00200 | <0.000500 | 0.14 | 1.51 | 1.65 |
| | 06/25/21 | <0.000800 | 0.0151 | 0.163 | <0.0003 | <0.000300 | <0.00200 | <0.00300 | 0.907 | 0.000408 J | 0.0103 | <0.0000800 | 0.0199 | <0.00200 | <0.000500 | 0.38 | 0.665 | 1.04 |
| | 09/28/21 | <0.000800 | 0.0197 | 0.163 | <0.0003 | <0.000300 | <0.00200 | <0.00300 | 0.629 | <0.000300 | 0.00865 J | <0.0000800 | 0.0158 | <0.00200 | <0.000500 | 0.278 | 1.75 | 2.03 |
| MW-10 | 03/30/17 | <0.0025 | 0.0110 | 0.0844 | <0.001 | <0.001 | <0.005 | <0.005 | 0.540 | <0.001 | 0.0179 | <0.0002 | 0.0342 | <0.005 | <0.0015 | -- | -- | 1.439 |
| | 05/10/17 | <0.0025 | 0.0146 | 0.0554 | <0.001 | <0.001 | 0.00533 | <0.005 | 0.830 | <0.001 | 0.0122 | <0.0002 | 0.102 | <0.005 | <0.0015 | -- | -- | 0.8880 |
| | 05/16/17 | <0.0025 | 0.0150 | 0.0598 | <0.001 | <0.001 | <0.005 | <0.005 | 0.810 | <0.001 | 0.0123 | <0.0002 | 0.0987 | <0.005 | <0.0015 | -- | -- | 0.1830 |
| | 06/08/17 | <0.0025 | 0.0144 | 0.0544 | <0.001 | <0.001 | <0.005 | <0.005 | 0.840 | <0.001 | 0.0115 | <0.0002 | 0.106 | <0.005 | <0.0015 | -- | -- | 0.06700 |
| | 06/21/17 | <0.0025 | 0.0149 | 0.054 | <0.001 | <0.001 | <0.005 | <0.005 | 0.840 | <0.001 | 0.0133 | <0.0002 | 0.113 | <0.005 | <0.0015 | -- | -- | 0.7090 |
| | 06/26/17 | <0.0025 | 0.0160 | 0.0587 | <0.001 | <0.001 | 0.0177 | <0.005 | 0.840 | <0.001 | 0.0137 | <0.0002 | 0.116 | <0.005 | <0.0015 | -- | -- | 0.7180 |
| | 07/11/17 | <0.0025 | 0.0149 | 0.0508 | <0.001 | <0.001 | <0.005 | <0.005 | 0.840 | <0.001 | 0.0119 | <0.0002 | 0.114 | <0.005 | <0.0015 | -- | -- | 1.713 |
| | 07/19/17 | <0.0025 | 0.0146 | 0.0633 | <0.001 | <0.001 | 0.00963 | <0.005 | 0.860 | <0.001 | 0.0127 | <0.0002 | 0.121 | <0.005 | <0.0015 | -- | -- | 2.132 |
| | 06/22/18 | <0.0025 | 0.0154 | 0.0692 | <0.001 | <0.001 | <0.005 | <0.005 | 0.88 | <0.00095 J | 0.0122 | <0.0002 | 0.134 | <0.005 | <0.0015 | <0.212 | <1.192 | <1.40 |
| | 09/18/18 | NA | 0.0140 | 0.0446 | NA | NA | <0.002 | <0.003 | 0.759 | <0.0003 | 0.0141 | NA | 0.125 | NA | NA | 0.151 | <0.848 | 0.999 |
| | 06/03/19 | <0.0008 | 0.0142 | 0.0420 | <0.0003 | <0.0003 | <0.002 | <0.003 | 0.953 | <0.0003 | 0.0139 | <0.00008 | 0.109 | <0.002 | <0.0005 | <0.203 | 0.814 | 1.017 |
| | 10/02/19 | <0.0008 | 0.0139 | 0.0406 | <0.0003 | <0.0003 | <0.002 | <0.003 | 0.891 | <0.0003 | 0.0127 | <0.00008 | 0.106 | <0.002 | <0.0005 | <0.325 | 0.901 | 0.901 |
| | 06/09/20 | <0.0008 | 0.014 | 0.0444 | <0.0003 | <0.0003 | <0.002 | 0.00334 J | 0.818 | <0.0003 | 0.013 | <0.00008 | 0.088 | <0.002 | <0.0005 | 0.0959 | 1.22 | 1.31 |
| | 10/06/20 | <0.000800 | 0.0139 | 0.0411 | <0.0003 | <0.000300 | <0.00200 | 0.00390 J | 1.05 | <0.000300 | 0.0127 | <0.0000800 | 0.0865 | <0.00200 | <0.000500 | 0.0332 | 1.68 | 1.71 |
| | 6/25/2021 | <0.000800 | 0.00942 | 0.0792 | <0.0003 | <0.000300 | <0.00200 | <0.00300 | 0.717 | <0.000300 | 0.018 | <0.0000800 | 0.0181 | <0.00200 | <0.000500 | 0.179 | 1.13 | 1.3 |
| | 09/28/21 | <0.000800 | 0.0143 | 0.0477 | <0.0003 | <0.000300 | <0.00200 | 0.00607 | 0.96 | <0.000300 | 0.0109 | <0.0000800 | 0.108 | <0.00200 | <0.000500 | 0.182 | 0.472 | 0.654 |
| MW-11 | 05/10/17 | <0.0025 | 0.0156 | 0.0899 | <0.001 | <0.001 | <0.005 | <0.005 | 0.82 | 0.00239 | 0.0125 | <0.0002 | 0.0082 | <0.005 | <0.0015 | -- | -- | 0.4560 |
| | 05/16/17 | <0.0025 | 0.018 | 0.0869 | <0.001 | <0.001 | 0.00731 | <0.005 | 0.85 | 0.0113 | 0.0144 | <0.0002 | 0.00841 | <0.005 | <0.0015 | -- | -- | 1.418 |
| | 05/18/17 | <0.0025 | 0.0188 | 0.0779 | <0.001 | <0.001 | <0.005 | <0.005 | 0.94 | 0.00204 | 0.0122 | <0.0002 | 0.00781 | <0.005 | <0.0015 | -- | -- | 0.6390 |
| | 06/07/17 | <0.0025 | 0.0175 | 0.0835 | <0.001 | <0.001 | <0.005 | <0.005 | 0.93 | 0.00171 | 0.0137 | <0.0002 | 0.00744 | <0.005 | <0.0015 | -- | -- | 0.5020 |
| | 06/21/17 | <0.0025 | 0.0203 | 0.0822 | <0.001 | <0.001 | <0.005 | <0.005 | 1.04 | 0.00322 | 0.0136 | <0.0002 | 0.00659 | <0.005 | <0.0015 | -- | -- | 1.084 |
| | 06/26/17 | <0.0025 | 0.0237 | 0.0954 | <0.001 | <0.001 | 0.0131 | <0.005 | 1.00 | 0.00593 | 0.0176 | <0.0002 | 0.00796 | <0.005 | <0.0015 | -- | -- | 3.067 |
| | 07/11/17 | <0.0025 | 0.0212 | 0.0725 | <0.001 | <0.001 | <0.005 | <0.005 | 1.00 | <0.001 | 0.012 | <0.0002 | 0.00765 | <0.005 | <0.0015 | -- | -- | 0.7530 |
| | 07/19/17 | <0.0025 | 0.0224 | 0.0709 | <0.001 | <0.001 | 0.00762 | <0.005 | 1.01 | 0.0018 | 0.0137 | <0.0002 | 0.00783 | <0.005 | <0.0015 | -- | -- | 1.551 |
| | 06/21/18 | <0.0025 | 0.0367 | 0.0805 | <0.001 | <0.001 | <0.005 | <0.005 | 0.96 | 0.00241 | 0.0135 | <0.0002 | 0.00465 | <0.005 | <0.0015 | <0.234 | <1.312 | <1.55 |
| | 09/18/18 | NA | 0.0382 | 0.0645 | NA | NA | <0.002 | <0.003 | 0.754 | <0.0003 | 0.0139 | NA | 0.00445 J | NA | NA | <0.188 | 0.597 | 0.785 |
| | 06/03/19 | <0.0008 | 0.0379 | 0.0834 | <0.0003 | <0.0003 | <0.002 | <0.003 | 0.837 | <0.0003 | 0.0154 | <0.00008 | 0.00316 J | <0.002 | <0.0005 | <0.481 | 0.991 | 1.472 |
| | 10/02/19 | <0.0008 | 0.0379 | 0.0744 | <0.0003 | <0.0003 | <0.002 | <0.003 | 0.788 | 0.000391 J | 0.014 | <0.00008 | 0.00259 J | <0.002 | <0.0005 | 1.57 | 0.478 | 2.040 |
| | 06/09/20 | <0.0008 | 0.0293 | 0.0948 | <0.0003 | <0.0003 | <0.002 | <0.003 | 0.571 | 0.000675 J | 0.0156 | <0.00008 | 0.00215 J | <0.002 | <0.0005 | 0.163 | 1.31 | 1.480 |
| | 10/06/20 | <0.000800 | 0.0159 | 0.105 | <0.0003 | <0.000300 | <0.00200 | <0.00300 | 0.767 | 0.000320 J | 0.0165 | <0.0000800 | 0.00340 J | <0.00200 | <0.000500 | 0.354 | 0.53 | 0.884 |
| | 6/25/2021 | <0.000800 | 0.0136 | 0.09 | <0.0003 | <0.000300 | <0.00200 | <0.00300 | 0.876 | <0.000300 | 0.0162 | <0.0000800 | 0.019 | <0.00200 | <0.000500 | 0.237 | 0.824 | 1.060 |
| | 6/25/21 DUP | <0.000800 | 0.0134 | 0.0905 | <0.0003 | <0.000300 | <0.00200 | <0.00300 | 0.865 | <0.000300 | 0.148 | <0.0000800 | 0.0194 | <0.00200 | <0.000500 | 0.173 J | 1.64 | 1.81 |
| 09/28/21 | <0.000800 | 0.0137 | 0.101 | <0.0003 | <0.000300 | <0.00200 | <0.00300 | 0.742 | 0.000475 J | 0.0161 | <0.0000800 | 0.0189 | <0.00200 | <0.000500 | 0.0336 | 2.74 | 2.77 | |
| 9/28/21 DUP | <0.000800 | 0.0586 | 0.181 | <0.0003 | <0.000300 | <0.00200 | 0.00362 J | 0.498 | <0.0003 | 0.00656 | <0.0000800 | 0.00467 | <0.00200 | <0.000500 | 0.426 | 1.28 | 1.71 | |

Notes:

1. All concentrations in mg/L. Ra 226/228 Combined in pCi/L.
2. J - concentration is below sample quantitation limit; result is an estimate.
3. NA = Not analyzed.

ATTACHMENT 1
LABORATORY ANALYTICAL REPORTS



July 09, 2021

Will Vienne
Golder
2201 Double Creek Dr #4004
Round Rock, Texas 78664
TEL: (512) 671-3434
FAX (512) 671-3446
RE: 1H21 Coletto Creek GW

Order No.: 2106017

Dear Will Vienne:

DHL Analytical, Inc. received 3 sample(s) on 6/3/2021 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAP except where noted in the Case Narrative. All non-NELAP methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

A handwritten signature in red ink, appearing to read 'John DuPont'.

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-21-27



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Eric Lau

From: John DuPont
Sent: Tuesday, May 28, 2019 11:35 AM
To: Eric Lau
Subject: FW: CCR Analysis

Appendix III Parameters:

Metals (Ca and B)
Anions (Cl, F, and SO₄)
TDS

Appendix IV Parameters:

Metals (As, Ba, Be, Cd, Co, Cr, Hg, Li, Mo, Pb, Sb, Se, and Tl)
Ra-226
Ra-228

From: Vienne, Will [mailto:William_Vienne@golder.com]
Sent: Tuesday, April 09, 2019 12:48 PM
To: John DuPont <dupont@dhlanalytical.com>
Subject: CCR Analysis

ORIGIN ID: VCTA (361) 573-6442
GREG LOGAN JR.
GOLDER ASSOCIATES INC.
620 E. AIRLINE

SHIP DATE: 02 JUN 21
ACT/WGT: 25.00 LB
CAD: 2806631/NET4340
DIMS: 24x13x14 IN

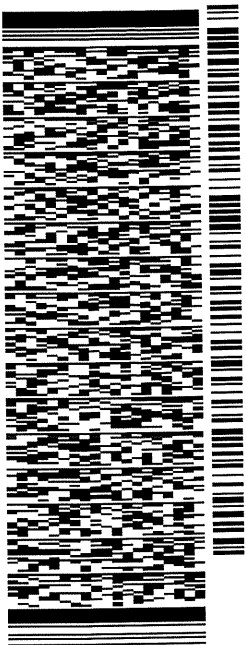
VICTORIA, TX 77901
UNITED STATES US

BILL SENDER

TO **SAMPLE RECEIVING**
DHL ANALYTICAL
2300 DOUBLE CREEK DR

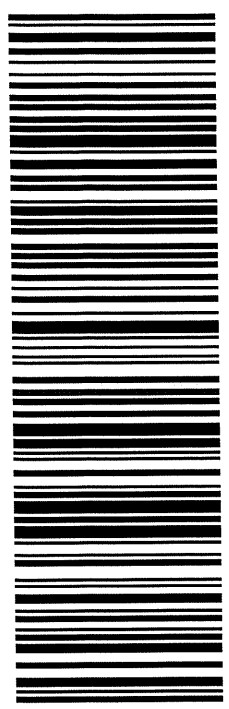
ROUND ROCK TX 78664

(512) 388-8222 REF: 19122262 B2021
INV: DEPT:



TRK# 7738 9098 7825
THU - 03 JUN 10:30A
PRIORITY OVERNIGHT

44 BSMA
TX-US **AUS**
78664



56DJ3/B387/FE4A

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number. Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

CUSTODY SEAL

DATE 6-2-21

SIGNATURE GML



Sample Receipt Checklist

Client Name **Golder**

Date Received: **6/3/2021**

Work Order Number **2106017**

Received by: **EL**

Checklist completed by: _____ 6/3/2021

[Handwritten Signature]
Signature

Date

Reviewed by _____ 6/3/2021

[Handwritten Initials]
Initials

Date

Carrier name: FedEx 1day

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No **2.5 °C**
- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH<2 acceptable upon receipt? Yes No NA LOT # 13171
- Adjusted? NO Checked by RIA
- Water - pH>9 (S) or pH>10 (CN) acceptable upon receipt? Yes No NA LOT #
- Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted: _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action: _____

| Laboratory Name: DHL Analytical, Inc. | | | | | | | |
|---|----------------|---|-----|---|-----------------|-----------------|------------------|
| Laboratory Review Checklist: Reportable Data | | | | | | | |
| Project Name: 1H21 Coleta Creek GW | | | | LRC Date: 7/9/21 | | | |
| Reviewer Name: Carlos Castro | | | | Laboratory Work Order: 2106017 | | | |
| Prep Batch Number(s): See Prep Dates Report | | | | Run Batch: See Analytical Dates Report | | | |
| # ¹ | A ² | Description | Yes | No | NA ³ | NR ⁴ | ER# ⁵ |
| | | Chain-of-Custody (C-O-C) | | | | | |
| R1 | OI | 1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt? | X | | | | R1-01 |
| | | 2) Were all departures from standard conditions described in an exception report? | | | X | | |
| R2 | OI | Sample and Quality Control (QC) Identification | | | | | |
| | | 1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers? | X | | | | |
| | | 2) Are all laboratory ID numbers cross-referenced to the corresponding QC data? | X | | | | |
| R3 | OI | Test Reports | | | | | |
| | | 1) Were all samples prepared and analyzed within holding times? | X | | | | |
| | | 2) Other than those results < MQL, were all other raw values bracketed by calibration standards? | X | | | | |
| | | 3) Were calculations checked by a peer or supervisor? | X | | | | |
| | | 4) Were all analyte identifications checked by a peer or supervisor? | X | | | | |
| | | 5) Were sample detection limits reported for all analytes not detected? | X | | | | |
| | | 6) Were all results for soil and sediment samples reported on a dry weight basis? | | | X | | |
| | | 7) Were % moisture (or solids) reported for all soil and sediment samples? | | | X | | |
| | | 8) Were bulk soils/solids samples for volatile analysis extracted with methanol per EPA Method 5035? | | | X | | |
| | | 9) If required for the project, TICs reported? | | | X | | |
| R4 | O | Surrogate Recovery Data | | | | | |
| | | 1) Were surrogates added prior to extraction? | | | X | | |
| | | 2) Were surrogate percent recoveries in all samples within the laboratory QC limits? | | | X | | |
| R5 | OI | Test Reports/Summary Forms for Blank Samples | | | | | |
| | | 1) Were appropriate type(s) of blanks analyzed? | X | | | | |
| | | 2) Were blanks analyzed at the appropriate frequency? | X | | | | |
| | | 3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures? | X | | | | |
| | | 4) Were blank concentrations < MDL? | X | | | | |
| | | 5) For analyte(s) detected in a blank sample, was the concentration, unadjusted for sample specific factors, in all associated field samples, greater than 10 times the concentration in the blank sample? | | | X | | |
| R6 | OI | Laboratory Control Samples (LCS): | | | | | |
| | | 1) Were all COCs included in the LCS? | X | | | | |
| | | 2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps? | X | | | | |
| | | 3) Were LCSs analyzed at the required frequency? | X | | | | |
| | | 4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits? | X | | | | |
| | | 5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs? | X | | | | |
| | | 6) Was the LCSD RPD within QC limits (if applicable)? | X | | | | |
| R7 | OI | Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data | | | | | |
| | | 1) Were the project/method specified analytes included in the MS and MSD? | X | | | | |
| | | 2) Were MS/MSD analyzed at the appropriate frequency? | X | | | | |
| | | 3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits? | | X | | | R7-03 |
| | | 4) Were MS/MSD RPDs within laboratory QC limits? | X | | | | |
| R8 | OI | Analytical Duplicate Data | | | | | |
| | | 1) Were appropriate analytical duplicates analyzed for each matrix? | X | | | | |
| | | 2) Were analytical duplicates analyzed at the appropriate frequency? | X | | | | |
| | | 3) Were RPDs or relative standard deviations within the laboratory QC limits? | X | | | | |
| R9 | OI | Method Quantitation Limits (MQLs): | | | | | |
| | | 1) Are the MQLs for each method analyte included in the laboratory data package? | X | | | | |
| | | 2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard? | X | | | | |
| | | 3) Are unadjusted MQLs and DCSs included in the laboratory data package? | X | | | | |
| R10 | OI | Other Problems/Anomalies | | | | | |
| | | 1) Are all known problems/anomalies/special conditions noted in this LRC and ER? | X | | | | |
| | | 2) Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results? | X | | | | |
| | | 3) Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package? | X | | | | |

| Laboratory Name: DHL Analytical, Inc. | | | | | | | |
|---|----------------|---|-----|---|-----------------|-----------------|------------------|
| Laboratory Review Checklist (continued): Supporting Data | | | | | | | |
| Project Name: 1H21 Coletto Creek GW | | | | LRC Date: 7/9/21 | | | |
| Reviewer Name: Carlos Castro | | | | Laboratory Work Order: 2106017 | | | |
| Prep Batch Number(s): See Prep Dates Report | | | | Run Batch: See Analytical Dates Report | | | |
| # ¹ | A ² | Description | Yes | No | NA ³ | NR ⁴ | ER# ⁵ |
| S1 | OI | Initial Calibration (ICAL) | | | | | |
| | | 1) Were response factors and/or relative response factors for each analyte within QC limits? | X | | | | |
| | | 2) Were percent RSDs or correlation coefficient criteria met? | X | | | | |
| | | 3) Was the number of standards recommended in the method used for all analytes? | X | | | | |
| | | 4) Were all points generated between the lowest and highest standard used to calculate the curve? | X | | | | |
| | | 5) Are ICAL data available for all instruments used? | X | | | | |
| | | 6) Has the initial calibration curve been verified using an appropriate second source standard? | X | | | | |
| S2 | OI | Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB): | | | | | |
| | | 1) Was the CCV analyzed at the method-required frequency? | X | | | | |
| | | 2) Were percent differences for each analyte within the method-required QC limits? | X | | | | |
| | | 3) Was the ICAL curve verified for each analyte? | X | | | | |
| | | 4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL? | X | | | | |
| S3 | O | Mass Spectral Tuning: | | | | | |
| | | 1) Was the appropriate compound for the method used for tuning? | X | | | | |
| | | 2) Were ion abundance data within the method-required QC limits? | X | | | | |
| S4 | O | Internal Standards (IS): | | | | | |
| | | 1) Were IS area counts and retention times within the method-required QC limits? | X | | | | |
| S5 | OI | Raw Data (NELAC Section 5.5.10) | | | | | |
| | | 1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst? | X | | | | |
| | | 2) Were data associated with manual integrations flagged on the raw data? | X | | | | |
| S6 | O | Dual Column Confirmation | | | | | |
| | | 1) Did dual column confirmation results meet the method-required QC? | | | X | | |
| S7 | O | Tentatively Identified Compounds (TICs): | | | | | |
| | | 1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks? | | | X | | |
| S8 | I | Interference Check Sample (ICS) Results: | | | | | |
| | | 1) Were percent recoveries within method QC limits? | X | | | | |
| S9 | I | Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions | | | | | |
| | | 1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method? | | X | | | S9-01 |
| S10 | OI | Method Detection Limit (MDL) Studies | | | | | |
| | | 1) Was a MDL study performed for each reported analyte? | X | | | | |
| | | 2) Is the MDL either adjusted or supported by the analysis of DCSs? | X | | | | |
| S11 | OI | Proficiency Test Reports: | | | | | |
| | | 1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies? | X | | | | |
| S12 | OI | Standards Documentation | | | | | |
| | | 1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources? | X | | | | |
| S13 | OI | Compound/Analyte Identification Procedures | | | | | |
| | | 1) Are the procedures for compound/analyte identification documented? | X | | | | |
| S14 | OI | Demonstration of Analyst Competency (DOC) | | | | | |
| | | 1) Was DOC conducted consistent with NELAC Chapter 5 – Appendix C? | X | | | | |
| | | 2) Is documentation of the analyst's competency up-to-date and on file? | X | | | | |
| S15 | OI | Verification/Validation Documentation for Methods (NELAC Chapter 5) | | | | | |
| | | 1) Are all the methods used to generate the data documented, verified, and validated, where applicable? | X | | | | |
| S16 | OI | Laboratory Standard Operating Procedures (SOPs): | | | | | |
| | | 1) Are laboratory SOPs current and on file for each method performed? | X | | | | |

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable.

4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Data Package Signature Page – RG-366/TRRP-13

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC Chapter 5,
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) The amount of analyte measured in the duplicate,
 - b) The calculated RPD, and
 - c) The laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
- R10 Other problems or anomalies.

The Exception Report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory is not accredited under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information or data affecting the quality of the data has been knowingly withheld.

This laboratory was last inspected by TCEQ on February 23-26, 2021. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Name: John DuPont
Official Title: General Manager


Signature

07/09/21
Date

Name: Dr. Derhsing Luu
Official Title: Technical Director

CLIENT: Golder
Project: 1H21 Coleta Creek GW
Lab Order: 2106017

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method SW6020B - Metals Analysis

Method SW7470A - Mercury Analysis

Method E300 - Anions Analysis

Method M2540C - TDS Analysis

Sub-contract - Radium-228 and Radium-226 analyses by methods E904 and SM 7500 Ra B M.

Analyzed at Pace Analytical.

Exception Report R1-01

The samples were received and log-in performed on 6/3/21. A total of 3 samples were received. The samples arrived in good condition and were properly packaged.

Exception Report R7-03

For Metals analysis performed on 6/7/21 the matrix spike and matrix spike duplicate recoveries were below control limits for Calcium. These are flagged accordingly in the QC summary report. The sample selected for the matrix spike and matrix spike duplicate was not from this work order. The LCS was within control limits for this analyte. No further corrective actions were taken.

For Anions analysis performed on 6/3/21 the matrix spike and matrix spike duplicate recoveries were below control limits for Sulfate. These are flagged accordingly. The sample selected for the matrix spike and matrix spike duplicate was not from this work order. The LCS was within control limits for this analyte. No further corrective actions were taken.

Exception Report S9-01

For Metals analysis performed on 6/7/21 the PDS recovery was out of control limits for Calcium. This is flagged accordingly in the QC summary report. The serial dilution was within control limits for this analyte. No further corrective actions were taken.

CLIENT: Golder
Project: 1H21 Coleta Creek GW
Lab Order: 2106017

Work Order Sample Summary

| Lab Smp ID | Client Sample ID | Tag Number | Date Collected | Date Recved |
|-------------------|-------------------------|-------------------|-----------------------|--------------------|
| 2106017-01 | BV-5 | | 06/02/21 09:13 AM | 6/3/2021 |
| 2106017-02 | MW-4 | | 06/02/21 10:30 AM | 6/3/2021 |
| 2106017-03 | BV-21 | | 06/02/21 11:25 AM | 6/3/2021 |

Lab Order: 2106017
 Client: Golder
 Project: 1H21 Coletto Creek GW

PREP DATES REPORT

| Sample ID | Client Sample ID | Collection Date | Matrix | Test Number | Test Name | Prep Date | Batch ID |
|-------------|------------------|-------------------|---------|-------------|-------------------------|-------------------|----------|
| 2106017-01A | BV-5 | 06/02/21 09:13 AM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 06/04/21 08:33 AM | 100822 |
| | BV-5 | 06/02/21 09:13 AM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 06/04/21 08:33 AM | 100822 |
| | BV-5 | 06/02/21 09:13 AM | Aqueous | SW7470A | Mercury Aq Prep | 06/08/21 02:43 PM | 100857 |
| 2106017-01B | BV-5 | 06/02/21 09:13 AM | Aqueous | E300 | Anion Preparation | 06/03/21 09:00 AM | 100816 |
| | BV-5 | 06/02/21 09:13 AM | Aqueous | E300 | Anion Preparation | 06/03/21 09:00 AM | 100816 |
| | BV-5 | 06/02/21 09:13 AM | Aqueous | M2540C | TDS Preparation | 06/04/21 01:46 PM | 100830 |
| 2106017-02A | MW-4 | 06/02/21 10:30 AM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 06/04/21 08:33 AM | 100822 |
| | MW-4 | 06/02/21 10:30 AM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 06/04/21 08:33 AM | 100822 |
| | MW-4 | 06/02/21 10:30 AM | Aqueous | SW7470A | Mercury Aq Prep | 06/08/21 02:43 PM | 100857 |
| 2106017-02B | MW-4 | 06/02/21 10:30 AM | Aqueous | E300 | Anion Preparation | 06/03/21 09:00 AM | 100816 |
| | MW-4 | 06/02/21 10:30 AM | Aqueous | E300 | Anion Preparation | 06/03/21 09:00 AM | 100816 |
| | MW-4 | 06/02/21 10:30 AM | Aqueous | M2540C | TDS Preparation | 06/04/21 01:46 PM | 100830 |
| 2106017-03A | BV-21 | 06/02/21 11:25 AM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 06/04/21 08:33 AM | 100822 |
| | BV-21 | 06/02/21 11:25 AM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 06/04/21 08:33 AM | 100822 |
| | BV-21 | 06/02/21 11:25 AM | Aqueous | SW7470A | Mercury Aq Prep | 06/08/21 02:43 PM | 100857 |
| 2106017-03B | BV-21 | 06/02/21 11:25 AM | Aqueous | E300 | Anion Preparation | 06/03/21 09:00 AM | 100816 |
| | BV-21 | 06/02/21 11:25 AM | Aqueous | M2540C | TDS Preparation | 06/04/21 01:46 PM | 100830 |

Lab Order: 2106017
 Client: Golder
 Project: 1H21 Coleta Creek GW

ANALYTICAL DATES REPORT

| Sample ID | Client Sample ID | Matrix | Test Number | Test Name | Batch ID | Dilution | Analysis Date | Run ID |
|-------------|------------------|---------|-------------|------------------------------|----------|----------|-------------------|-----------------------|
| 2106017-01A | BV-5 | Aqueous | SW7470A | Mercury Total: Aqueous | 100857 | 1 | 06/09/21 03:20 PM | CETAC2_HG_210609 B |
| | BV-5 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 100822 | 10 | 06/07/21 02:36 PM | ICP-MS4_210607B |
| | BV-5 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 100822 | 1 | 06/07/21 12:31 PM | ICP-MS5_210607B |
| 2106017-01B | BV-5 | Aqueous | E300 | Anions by IC method - Water | 100816 | 10 | 06/03/21 03:43 PM | IC2_210603A |
| | BV-5 | Aqueous | E300 | Anions by IC method - Water | 100816 | 1 | 06/03/21 04:31 PM | IC2_210603A |
| | BV-5 | Aqueous | M2540C | Total Dissolved Solids | 100830 | 1 | 06/04/21 05:00 PM | WC_210604A |
| 2106017-02A | MW-4 | Aqueous | SW7470A | Mercury Total: Aqueous | 100857 | 1 | 06/09/21 03:22 PM | CETAC2_HG_210609 B |
| | MW-4 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 100822 | 1 | 06/07/21 12:34 PM | ICP-MS5_210607B |
| | MW-4 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 100822 | 5 | 06/07/21 02:38 PM | ICP-MS4_210607B |
| 2106017-02B | MW-4 | Aqueous | E300 | Anions by IC method - Water | 100816 | 1 | 06/03/21 04:47 PM | IC2_210603A |
| | MW-4 | Aqueous | E300 | Anions by IC method - Water | 100816 | 10 | 06/03/21 03:59 PM | IC2_210603A |
| | MW-4 | Aqueous | M2540C | Total Dissolved Solids | 100830 | 1 | 06/04/21 05:00 PM | WC_210604A |
| 2106017-03A | BV-21 | Aqueous | SW7470A | Mercury Total: Aqueous | 100857 | 1 | 06/09/21 03:24 PM | CETAC2_HG_210609 B |
| | BV-21 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 100822 | 5 | 06/07/21 02:40 PM | ICP-MS4_210607B |
| | BV-21 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 100822 | 1 | 06/07/21 12:36 PM | ICP-MS5_210607B |
| 2106017-03B | BV-21 | Aqueous | E300 | Anions by IC method - Water | 100816 | 1 | 06/03/21 05:03 PM | IC2_210603A |
| | BV-21 | Aqueous | M2540C | Total Dissolved Solids | 100830 | 1 | 06/04/21 05:00 PM | WC_210604A |

DHL Analytical, Inc.

Date: 09-Jul-21

CLIENT: Golder
Project: 1H21 Coleta Creek GW
Project No: 19122262-82021
Lab Order: 2106017

Client Sample ID: BV-5
Lab ID: 2106017-01
Collection Date: 06/02/21 09:13 AM
Matrix: AQUEOUS

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|--|------------|----------------|----------|------|---------------------|----|-------------------|
| TRACE METALS: ICP-MS - WATER | | SW6020B | | | Analyst: SP | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 06/07/21 12:31 PM |
| Arsenic | 0.00882 | 0.00200 | 0.00500 | | mg/L | 1 | 06/07/21 12:31 PM |
| Barium | 0.0530 | 0.00300 | 0.0100 | | mg/L | 1 | 06/07/21 12:31 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/07/21 12:31 PM |
| Boron | 1.35 | 0.100 | 0.300 | | mg/L | 10 | 06/07/21 02:36 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/07/21 12:31 PM |
| Calcium | 108 | 1.00 | 3.00 | | mg/L | 10 | 06/07/21 02:36 PM |
| Chromium | 0.00262 | 0.00200 | 0.00500 | J | mg/L | 1 | 06/07/21 12:31 PM |
| Cobalt | 0.0437 | 0.00300 | 0.00500 | | mg/L | 1 | 06/07/21 12:31 PM |
| Lead | 0.000588 | 0.000300 | 0.00100 | J | mg/L | 1 | 06/07/21 12:31 PM |
| Lithium | 0.0239 | 0.00500 | 0.0100 | | mg/L | 1 | 06/07/21 12:31 PM |
| Molybdenum | 0.00768 | 0.00200 | 0.00500 | | mg/L | 1 | 06/07/21 12:31 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/07/21 12:31 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 06/07/21 12:31 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | Analyst: JVR | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 06/09/21 03:20 PM |
| ANIONS BY IC METHOD - WATER | | E300 | | | Analyst: SNM | | |
| Chloride | 201 | 3.00 | 10.0 | | mg/L | 10 | 06/03/21 03:43 PM |
| Fluoride | 0.699 | 0.100 | 0.400 | | mg/L | 1 | 06/03/21 04:31 PM |
| Sulfate | 190 | 10.0 | 30.0 | | mg/L | 10 | 06/03/21 03:43 PM |
| TOTAL DISSOLVED SOLIDS | | M2540C | | | Analyst: JS | | |
| Total Dissolved Solids (Residue, Filterable) | 1110 | 50.0 | 50.0 | | mg/L | 1 | 06/04/21 05:00 PM |

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 09-Jul-21

CLIENT: Golder
Project: 1H21 Coleta Creek GW
Project No: 19122262-82021
Lab Order: 2106017

Client Sample ID: MW-4
Lab ID: 2106017-02
Collection Date: 06/02/21 10:30 AM
Matrix: AQUEOUS

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|--|------------|----------------|----------|------|---------------------|----|-------------------|
| TRACE METALS: ICP-MS - WATER | | SW6020B | | | Analyst: SP | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 06/07/21 12:34 PM |
| Arsenic | 0.00808 | 0.00200 | 0.00500 | | mg/L | 1 | 06/07/21 12:34 PM |
| Barium | 0.0582 | 0.00300 | 0.0100 | | mg/L | 1 | 06/07/21 12:34 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/07/21 12:34 PM |
| Boron | 0.330 | 0.0500 | 0.150 | | mg/L | 5 | 06/07/21 02:38 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/07/21 12:34 PM |
| Calcium | 94.1 | 0.500 | 1.50 | | mg/L | 5 | 06/07/21 02:38 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/07/21 12:34 PM |
| Cobalt | 0.00934 | 0.00300 | 0.00500 | | mg/L | 1 | 06/07/21 12:34 PM |
| Lead | 0.000418 | 0.000300 | 0.00100 | J | mg/L | 1 | 06/07/21 12:34 PM |
| Lithium | 0.0176 | 0.00500 | 0.0100 | | mg/L | 1 | 06/07/21 12:34 PM |
| Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/07/21 12:34 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/07/21 12:34 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 06/07/21 12:34 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | Analyst: JVR | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 06/09/21 03:22 PM |
| ANIONS BY IC METHOD - WATER | | E300 | | | Analyst: SNM | | |
| Chloride | 98.3 | 3.00 | 10.0 | | mg/L | 10 | 06/03/21 03:59 PM |
| Fluoride | 0.769 | 0.100 | 0.400 | | mg/L | 1 | 06/03/21 04:47 PM |
| Sulfate | 153 | 10.0 | 30.0 | | mg/L | 10 | 06/03/21 03:59 PM |
| TOTAL DISSOLVED SOLIDS | | M2540C | | | Analyst: JS | | |
| Total Dissolved Solids (Residue, Filterable) | 727 | 10.0 | 10.0 | | mg/L | 1 | 06/04/21 05:00 PM |

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 09-Jul-21

CLIENT: Golder
Project: 1H21 Coleta Creek GW
Project No: 19122262-82021
Lab Order: 2106017

Client Sample ID: BV-21
Lab ID: 2106017-03
Collection Date: 06/02/21 11:25 AM
Matrix: AQUEOUS

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|--|------------|----------------|----------|------|---------------------|----|-------------------|
| TRACE METALS: ICP-MS - WATER | | SW6020B | | | Analyst: SP | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 06/07/21 12:36 PM |
| Arsenic | 0.0663 | 0.00200 | 0.00500 | | mg/L | 1 | 06/07/21 12:36 PM |
| Barium | 0.176 | 0.00300 | 0.0100 | | mg/L | 1 | 06/07/21 12:36 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/07/21 12:36 PM |
| Boron | 0.399 | 0.0500 | 0.150 | | mg/L | 5 | 06/07/21 02:40 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/07/21 12:36 PM |
| Calcium | 79.8 | 0.500 | 1.50 | | mg/L | 5 | 06/07/21 02:40 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/07/21 12:36 PM |
| Cobalt | 0.00441 | 0.00300 | 0.00500 | J | mg/L | 1 | 06/07/21 12:36 PM |
| Lead | 0.000336 | 0.000300 | 0.00100 | J | mg/L | 1 | 06/07/21 12:36 PM |
| Lithium | 0.00532 | 0.00500 | 0.0100 | J | mg/L | 1 | 06/07/21 12:36 PM |
| Molybdenum | 0.00547 | 0.00200 | 0.00500 | | mg/L | 1 | 06/07/21 12:36 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/07/21 12:36 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 06/07/21 12:36 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | Analyst: JVR | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 06/09/21 03:24 PM |
| ANIONS BY IC METHOD - WATER | | E300 | | | Analyst: SNM | | |
| Chloride | 49.5 | 0.300 | 1.00 | | mg/L | 1 | 06/03/21 05:03 PM |
| Fluoride | 0.705 | 0.100 | 0.400 | | mg/L | 1 | 06/03/21 05:03 PM |
| Sulfate | 32.9 | 1.00 | 3.00 | | mg/L | 1 | 06/03/21 05:03 PM |
| TOTAL DISSOLVED SOLIDS | | M2540C | | | Analyst: JS | | |
| Total Dissolved Solids (Residue, Filterable) | 404 | 10.0 | 10.0 | | mg/L | 1 | 06/04/21 05:00 PM |

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

CLIENT: Golder
Work Order: 2106017
Project: 1H21 Coleta Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_210511A

| Sample ID: DCS-100518 | Batch ID: 100518 | TestNo: SW7470A | Units: mg/L | | | | | | | |
|------------------------------|----------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: DCS | Run ID: CETAC2_HG_210511A | Analysis Date: 5/11/2021 1:32:27 PM | Prep Date: 5/10/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | 0.000165 | 0.000200 | 0.000200 | 0 | 82.5 | 82 | 119 | 0 | 0 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL

DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAP certified

CLIENT: Golder
Work Order: 2106017
Project: 1H21 Coletto Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_210609B

The QC data in batch 100857 applies to the following samples: 2106017-01A, 2106017-02A, 2106017-03A

| | | | | | | | | | | |
|-----------------------------|----------------------------------|---|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: MB-100857 | Batch ID: 100857 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: MBLK | Run ID: CETAC2_HG_210609B | Analysis Date: 6/9/2021 3:09:04 PM | Prep Date: 6/8/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

Mercury <0.0000800 0.000200

| | | | | | | | | | | |
|------------------------------|----------------------------------|---|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: LCS-100857 | Batch ID: 100857 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: LCS | Run ID: CETAC2_HG_210609B | Analysis Date: 6/9/2021 3:13:36 PM | Prep Date: 6/8/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

Mercury 0.00207 0.000200 0.00200 0 104 85 115

| | | | | | | | | | | |
|-------------------------------|----------------------------------|---|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: LCSD-100857 | Batch ID: 100857 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: LCSD | Run ID: CETAC2_HG_210609B | Analysis Date: 6/9/2021 3:15:52 PM | Prep Date: 6/8/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

Mercury 0.00205 0.000200 0.00200 0 103 85 115 0.971 15

| | | | | | | | | | | |
|----------------------------------|----------------------------------|---|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: 2106029-02C MS | Batch ID: 100857 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: MS | Run ID: CETAC2_HG_210609B | Analysis Date: 6/9/2021 3:31:44 PM | Prep Date: 6/8/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

Mercury 0.0103 0.00100 0.0100 0 103 80 120

| | | | | | | | | | | |
|-----------------------------------|----------------------------------|---|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: 2106029-02C MSD | Batch ID: 100857 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: MSD | Run ID: CETAC2_HG_210609B | Analysis Date: 6/9/2021 3:33:59 PM | Prep Date: 6/8/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

Mercury 0.0103 0.00100 0.0100 0 103 80 120 0 15

| | | | | | | | | | | |
|----------------------------------|----------------------------------|---|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: 2106029-02C SD | Batch ID: 100857 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: SD | Run ID: CETAC2_HG_210609B | Analysis Date: 6/9/2021 3:36:15 PM | Prep Date: 6/8/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

Mercury <0.00200 0.00500 0 0 0 0 10

| | | | | | | | | | | |
|-----------------------------------|----------------------------------|---|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: 2106029-02C PDS | Batch ID: 100857 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: PDS | Run ID: CETAC2_HG_210609B | Analysis Date: 6/9/2021 3:38:31 PM | Prep Date: 6/8/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

Mercury 0.0122 0.00100 0.0125 0 98.0 85 115

- | | |
|--|---|
| <p>Qualifiers:</p> <ul style="list-style-type: none"> B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | <ul style="list-style-type: none"> DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAP certified |
|--|---|

CLIENT: Golder
Work Order: 2106017
Project: 1H21 Coleta Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_210609B

| Sample ID: ICV-210609 | Batch ID: R115747 | TestNo: SW7470A | Units: mg/L | | | | | | | |
|------------------------------|----------------------------------|---|--------------------|---------|------|----------|-----------|------|----------|------|
| SampType: ICV | Run ID: CETAC2_HG_210609B | Analysis Date: 6/9/2021 3:04:30 PM | Prep Date: | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | 0.00412 | 0.000200 | 0.00400 | 0 | 103 | 90 | 110 | | | |

| Sample ID: CCV1-210609 | Batch ID: R115747 | TestNo: SW7470A | Units: mg/L | | | | | | | |
|-------------------------------|----------------------------------|---|--------------------|---------|------|----------|-----------|------|----------|------|
| SampType: CCV | Run ID: CETAC2_HG_210609B | Analysis Date: 6/9/2021 4:00:43 PM | Prep Date: | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | 0.00200 | 0.000200 | 0.00200 | 0 | 100 | 90 | 110 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL

DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAP certified

CLIENT: Golder
Work Order: 2106017
Project: 1H21 Coleta Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_210428A

| | | | |
|-------------------------------|--------------------------------|---|-----------------------------|
| Sample ID: DCS2-100323 | Batch ID: 100323 | TestNo: SW6020B | Units: mg/L |
| SampType: DCS2 | Run ID: ICP-MS4_210428A | Analysis Date: 4/28/2021 10:34:00 AM | Prep Date: 4/27/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Calcium | 0.302 | 0.300 | 0.300 | 0 | 101 | 70 | 130 | 0 | 0 | |

| | | | |
|-------------------------------|--------------------------------|---|-----------------------------|
| Sample ID: DCS4-100323 | Batch ID: 100323 | TestNo: SW6020B | Units: mg/L |
| SampType: DCS4 | Run ID: ICP-MS4_210428A | Analysis Date: 4/28/2021 10:39:00 AM | Prep Date: 4/27/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|--------|-----------|---------|------|----------|-----------|------|----------|------|
| Boron | 0.0310 | 0.0300 | 0.0300 | 0 | 103 | 70 | 130 | 0 | 0 | |

Qualifiers:

- B Analyte detected in the associated Method Blank
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- J Analyte detected between SDL and RL

- DF Dilution Factor
- MDL Method Detection Limit
- R RPD outside accepted control limits
- S Spike Recovery outside control limits
- N Parameter not NELAP certified

CLIENT: Golder
Work Order: 2106017
Project: 1H21 Coletto Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_210607B

The QC data in batch 100822 applies to the following samples: 2106017-01A, 2106017-02A, 2106017-03A

| | | | | | | | | | | |
|-----------------------------|--------------------------------|---|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: MB-100822 | Batch ID: 100822 | TestNo: SW6020B | Units: mg/L | | | | | | | |
| SampType: MBLK | Run ID: ICP-MS4_210607B | Analysis Date: 6/7/2021 2:24:00 PM | Prep Date: 6/4/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

Boron <0.0100 0.0300

| | | | | | | | | | | |
|------------------------------|--------------------------------|---|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: LCS-100822 | Batch ID: 100822 | TestNo: SW6020B | Units: mg/L | | | | | | | |
| SampType: LCS | Run ID: ICP-MS4_210607B | Analysis Date: 6/7/2021 2:26:00 PM | Prep Date: 6/4/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

Boron 0.194 0.0300 0.200 0 97.1 80 120

| | | | | | | | | | | |
|-------------------------------|--------------------------------|---|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: LCSD-100822 | Batch ID: 100822 | TestNo: SW6020B | Units: mg/L | | | | | | | |
| SampType: LCSD | Run ID: ICP-MS4_210607B | Analysis Date: 6/7/2021 2:28:00 PM | Prep Date: 6/4/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

Boron 0.197 0.0300 0.200 0 98.4 80 120 1.33 15

| | | | | | | | | | | |
|----------------------------------|--------------------------------|---|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: 2106021-01C SD | Batch ID: 100822 | TestNo: SW6020B | Units: mg/L | | | | | | | |
| SampType: SD | Run ID: ICP-MS4_210607B | Analysis Date: 6/7/2021 2:34:00 PM | Prep Date: 6/4/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

Boron <1.00 3.00 0 0.588 0 20

| | | | | | | | | | | |
|-----------------------------------|--------------------------------|---|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: 2106021-01C PDS | Batch ID: 100822 | TestNo: SW6020B | Units: mg/L | | | | | | | |
| SampType: PDS | Run ID: ICP-MS4_210607B | Analysis Date: 6/7/2021 2:44:00 PM | Prep Date: 6/4/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

Boron 4.50 0.600 4.00 0.588 97.8 75 125

| | | | | | | | | | | |
|----------------------------------|--------------------------------|---|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: 2106021-01C MS | Batch ID: 100822 | TestNo: SW6020B | Units: mg/L | | | | | | | |
| SampType: MS | Run ID: ICP-MS4_210607B | Analysis Date: 6/7/2021 2:46:00 PM | Prep Date: 6/4/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

Boron 0.801 0.600 0.200 0.588 106 75 125

| | | | | | | | | | | |
|-----------------------------------|--------------------------------|---|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: 2106021-01C MSD | Batch ID: 100822 | TestNo: SW6020B | Units: mg/L | | | | | | | |
| SampType: MSD | Run ID: ICP-MS4_210607B | Analysis Date: 6/7/2021 2:48:00 PM | Prep Date: 6/4/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

Boron 0.824 0.600 0.200 0.588 118 75 125 2.82 15

- | | |
|--|---|
| <p>Qualifiers:</p> <ul style="list-style-type: none"> B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | <ul style="list-style-type: none"> DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAP certified |
|--|---|

CLIENT: Golder
Work Order: 2106017
Project: 1H21 Coleta Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_210607B

| Sample ID: ICV-210607 | Batch ID: R115717 | TestNo: SW6020B | Units: mg/L | | | | | | | |
|------------------------------|--------------------------------|--|--------------------|---------|------|----------|-----------|------|----------|------|
| SampType: ICV | Run ID: ICP-MS4_210607B | Analysis Date: 6/7/2021 11:31:00 AM | Prep Date: | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 0.103 | 0.0300 | 0.100 | 0 | 103 | 90 | 110 | | | |
| Calcium | 2.34 | 0.300 | 2.50 | 0 | 93.7 | 90 | 110 | | | |

| Sample ID: LCVL-210607 | Batch ID: R115717 | TestNo: SW6020B | Units: mg/L | | | | | | | |
|-------------------------------|--------------------------------|--|--------------------|---------|------|----------|-----------|------|----------|------|
| SampType: LCVL | Run ID: ICP-MS4_210607B | Analysis Date: 6/7/2021 11:40:00 AM | Prep Date: | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 0.0227 | 0.0300 | 0.0200 | 0 | 114 | 80 | 120 | | | |
| Calcium | 0.0970 | 0.300 | 0.100 | 0 | 97.0 | 80 | 120 | | | |

| Sample ID: CCV1-210607 | Batch ID: R115717 | TestNo: SW6020B | Units: mg/L | | | | | | | |
|-------------------------------|--------------------------------|--|--------------------|---------|------|----------|-----------|------|----------|------|
| SampType: CCV | Run ID: ICP-MS4_210607B | Analysis Date: 6/7/2021 12:23:00 PM | Prep Date: | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 0.202 | 0.0300 | 0.200 | 0 | 101 | 90 | 110 | | | |
| Calcium | 4.85 | 0.300 | 5.00 | 0 | 97.1 | 90 | 110 | | | |

| Sample ID: CCV2-210607 | Batch ID: R115717 | TestNo: SW6020B | Units: mg/L | | | | | | | |
|-------------------------------|--------------------------------|---|--------------------|---------|------|----------|-----------|------|----------|------|
| SampType: CCV | Run ID: ICP-MS4_210607B | Analysis Date: 6/7/2021 2:50:00 PM | Prep Date: | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 0.197 | 0.0300 | 0.200 | 0 | 98.3 | 90 | 110 | | | |
| Calcium | 4.73 | 0.300 | 5.00 | 0 | 94.6 | 90 | 110 | | | |

| | |
|---|--|
| <p>Qualifiers:</p> <p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p> | <p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAP certified</p> |
|---|--|

CLIENT: Golder
 Work Order: 2106017
 Project: 1H21 Coleta Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_210428A

| | | | |
|-------------------------------|--------------------------------|---|-----------------------------|
| Sample ID: DCS1-100323 | Batch ID: 100323 | TestNo: SW6020B | Units: mg/L |
| SampType: DCS | Run ID: ICP-MS5_210428A | Analysis Date: 4/28/2021 10:49:00 AM | Prep Date: 4/27/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|-----------|----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.00105 | 0.00250 | 0.00100 | 0 | 105 | 70 | 130 | 0 | 0 | |
| Beryllium | 0.000505 | 0.00100 | 0.000500 | 0 | 101 | 70 | 130 | 0 | 0 | |
| Cadmium | 0.000461 | 0.00100 | 0.000500 | 0 | 92.2 | 70 | 130 | 0 | 0 | |
| Lead | 0.000474 | 0.00100 | 0.000500 | 0 | 94.8 | 70 | 130 | 0 | 0 | |
| Thallium | 0.000452 | 0.00150 | 0.000500 | 0 | 90.4 | 70 | 130 | 0 | 0 | |

| | | | |
|-------------------------------|--------------------------------|---|-----------------------------|
| Sample ID: DCS2-100323 | Batch ID: 100323 | TestNo: SW6020B | Units: mg/L |
| SampType: DCS2 | Run ID: ICP-MS5_210428A | Analysis Date: 4/28/2021 10:53:00 AM | Prep Date: 4/27/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Calcium | 0.302 | 0.300 | 0.300 | 0 | 101 | 70 | 130 | 0 | 0 | |

| | | | |
|-------------------------------|--------------------------------|---|-----------------------------|
| Sample ID: DCS3-100323 | Batch ID: 100323 | TestNo: SW6020B | Units: mg/L |
| SampType: DCS3 | Run ID: ICP-MS5_210428A | Analysis Date: 4/28/2021 10:56:00 AM | Prep Date: 4/27/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|---------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Arsenic | 0.00467 | 0.00500 | 0.00500 | 0 | 93.3 | 70 | 130 | 0 | 0 | |
| Barium | 0.00472 | 0.0100 | 0.00500 | 0 | 94.4 | 70 | 130 | 0 | 0 | |
| Chromium | 0.00490 | 0.00500 | 0.00500 | 0 | 97.9 | 70 | 130 | 0 | 0 | |
| Cobalt | 0.00473 | 0.00500 | 0.00500 | 0 | 94.5 | 70 | 130 | 0 | 0 | |
| Lithium | 0.00495 | 0.0100 | 0.00500 | 0 | 99.0 | 70 | 130 | 0 | 0 | |
| Molybdenum | 0.00482 | 0.00500 | 0.00500 | 0 | 96.4 | 70 | 130 | 0 | 0 | |
| Selenium | 0.00498 | 0.00500 | 0.00500 | 0 | 99.5 | 70 | 130 | 0 | 0 | |

| | |
|--|---|
| Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAP certified |
|--|---|

CLIENT: Golder
Work Order: 2106017
Project: 1H21 Coleta Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_210607B

The QC data in batch 100822 applies to the following samples: 2106017-01A, 2106017-02A, 2106017-03A

| | | | |
|-----------------------------|--------------------------------|--|----------------------------|
| Sample ID: MB-100822 | Batch ID: 100822 | TestNo: SW6020B | Units: mg/L |
| SampType: MBLK | Run ID: ICP-MS5_210607B | Analysis Date: 6/7/2021 12:14:00 PM | Prep Date: 6/4/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|-----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | <0.000800 | 0.00250 | | | | | | | | |
| Arsenic | <0.00200 | 0.00500 | | | | | | | | |
| Barium | <0.00300 | 0.0100 | | | | | | | | |
| Beryllium | <0.000300 | 0.00100 | | | | | | | | |
| Cadmium | <0.000300 | 0.00100 | | | | | | | | |
| Calcium | <0.100 | 0.300 | | | | | | | | |
| Chromium | <0.00200 | 0.00500 | | | | | | | | |
| Cobalt | <0.00300 | 0.00500 | | | | | | | | |
| Lead | <0.000300 | 0.00100 | | | | | | | | |
| Lithium | <0.00500 | 0.0100 | | | | | | | | |
| Molybdenum | <0.00200 | 0.00500 | | | | | | | | |
| Selenium | <0.00200 | 0.00500 | | | | | | | | |
| Thallium | <0.000500 | 0.00150 | | | | | | | | |

| | | | |
|------------------------------|--------------------------------|--|----------------------------|
| Sample ID: LCS-100822 | Batch ID: 100822 | TestNo: SW6020B | Units: mg/L |
| SampType: LCS | Run ID: ICP-MS5_210607B | Analysis Date: 6/7/2021 12:18:00 PM | Prep Date: 6/4/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.196 | 0.00250 | 0.200 | 0 | 98.2 | 80 | 120 | | | |
| Arsenic | 0.198 | 0.00500 | 0.200 | 0 | 98.9 | 80 | 120 | | | |
| Barium | 0.195 | 0.0100 | 0.200 | 0 | 97.6 | 80 | 120 | | | |
| Beryllium | 0.188 | 0.00100 | 0.200 | 0 | 94.1 | 80 | 120 | | | |
| Cadmium | 0.197 | 0.00100 | 0.200 | 0 | 98.5 | 80 | 120 | | | |
| Calcium | 4.80 | 0.300 | 5.00 | 0 | 95.9 | 80 | 120 | | | |
| Chromium | 0.198 | 0.00500 | 0.200 | 0 | 98.8 | 80 | 120 | | | |
| Cobalt | 0.196 | 0.00500 | 0.200 | 0 | 98.2 | 80 | 120 | | | |
| Lead | 0.190 | 0.00100 | 0.200 | 0 | 94.8 | 80 | 120 | | | |
| Lithium | 0.195 | 0.0100 | 0.200 | 0 | 97.7 | 80 | 120 | | | |
| Molybdenum | 0.197 | 0.00500 | 0.200 | 0 | 98.7 | 80 | 120 | | | |
| Selenium | 0.198 | 0.00500 | 0.200 | 0 | 98.8 | 80 | 120 | | | |
| Thallium | 0.189 | 0.00150 | 0.200 | 0 | 94.6 | 80 | 120 | | | |

| | | | |
|-------------------------------|--------------------------------|--|----------------------------|
| Sample ID: LCSD-100822 | Batch ID: 100822 | TestNo: SW6020B | Units: mg/L |
| SampType: LCSD | Run ID: ICP-MS5_210607B | Analysis Date: 6/7/2021 12:21:00 PM | Prep Date: 6/4/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|-----------|--------|---------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | 0.196 | 0.00250 | 0.200 | 0 | 98.2 | 80 | 120 | 0.084 | 15 | |
| Arsenic | 0.198 | 0.00500 | 0.200 | 0 | 99.1 | 80 | 120 | 0.194 | 15 | |
| Barium | 0.198 | 0.0100 | 0.200 | 0 | 99.2 | 80 | 120 | 1.65 | 15 | |
| Beryllium | 0.185 | 0.00100 | 0.200 | 0 | 92.5 | 80 | 120 | 1.76 | 15 | |

- | | |
|--|---|
| <p>Qualifiers:</p> <ul style="list-style-type: none"> B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | <ul style="list-style-type: none"> DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAP certified |
|--|---|

CLIENT: Golder
 Work Order: 2106017
 Project: 1H21 Coletto Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_210607B

| | | | |
|-------------------------------|--------------------------------|--|----------------------------|
| Sample ID: LCSD-100822 | Batch ID: 100822 | TestNo: SW6020B | Units: mg/L |
| SampType: LCSD | Run ID: ICP-MS5_210607B | Analysis Date: 6/7/2021 12:21:00 PM | Prep Date: 6/4/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|-------|----------|------|
| Cadmium | 0.198 | 0.00100 | 0.200 | 0 | 98.9 | 80 | 120 | 0.413 | 15 | |
| Calcium | 4.83 | 0.300 | 5.00 | 0 | 96.5 | 80 | 120 | 0.589 | 15 | |
| Chromium | 0.201 | 0.00500 | 0.200 | 0 | 100 | 80 | 120 | 1.58 | 15 | |
| Cobalt | 0.196 | 0.00500 | 0.200 | 0 | 97.9 | 80 | 120 | 0.312 | 15 | |
| Lead | 0.191 | 0.00100 | 0.200 | 0 | 95.7 | 80 | 120 | 0.971 | 15 | |
| Lithium | 0.191 | 0.0100 | 0.200 | 0 | 95.6 | 80 | 120 | 2.20 | 15 | |
| Molybdenum | 0.200 | 0.00500 | 0.200 | 0 | 99.9 | 80 | 120 | 1.19 | 15 | |
| Selenium | 0.197 | 0.00500 | 0.200 | 0 | 98.6 | 80 | 120 | 0.232 | 15 | |
| Thallium | 0.192 | 0.00150 | 0.200 | 0 | 95.8 | 80 | 120 | 1.28 | 15 | |

| | | | |
|----------------------------------|--------------------------------|--|----------------------------|
| Sample ID: 2106021-01C SD | Batch ID: 100822 | TestNo: SW6020B | Units: mg/L |
| SampType: SD | Run ID: ICP-MS5_210607B | Analysis Date: 6/7/2021 12:29:00 PM | Prep Date: 6/4/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|----------|---------|-----------|----------|------|----------|-----------|------|----------|------|
| Antimony | <0.00400 | 0.0125 | 0 | 0.00114 | | | | 0 | 20 | |
| Arsenic | 0.0201 | 0.0250 | 0 | 0.0196 | | | | 2.49 | 20 | |
| Barium | 0.0232 | 0.0500 | 0 | 0.0235 | | | | 1.52 | 20 | |
| Beryllium | <0.00150 | 0.00500 | 0 | 0.00180 | | | | 0 | 20 | |
| Cadmium | <0.00150 | 0.00500 | 0 | 0.000981 | | | | 0 | 20 | |
| Calcium | 136 | 1.50 | 0 | 130 | | | | 4.53 | 20 | |
| Chromium | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 20 | |
| Cobalt | <0.0150 | 0.0250 | 0 | 0 | | | | 0 | 20 | |
| Lead | <0.00150 | 0.00500 | 0 | 0.000950 | | | | 0 | 20 | |
| Lithium | 0.212 | 0.0500 | 0 | 0.196 | | | | 8.13 | 20 | |
| Molybdenum | 0.0125 | 0.0250 | 0 | 0.0123 | | | | 1.97 | 20 | |
| Selenium | <0.0100 | 0.0250 | 0 | 0.00912 | | | | 0 | 20 | |
| Thallium | <0.00250 | 0.00750 | 0 | 0.00106 | | | | 0 | 20 | |

| | | | |
|-----------------------------------|--------------------------------|--|----------------------------|
| Sample ID: 2106021-01C PDS | Batch ID: 100822 | TestNo: SW6020B | Units: mg/L |
| SampType: PDS | Run ID: ICP-MS5_210607B | Analysis Date: 6/7/2021 12:41:00 PM | Prep Date: 6/4/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|-----------|--------|---------|-----------|----------|-------|----------|-----------|------|----------|------|
| Antimony | 0.197 | 0.00250 | 0.200 | 0.00114 | 97.8 | 75 | 125 | | | |
| Arsenic | 0.204 | 0.00500 | 0.200 | 0.0196 | 92.0 | 75 | 125 | | | |
| Barium | 0.225 | 0.0100 | 0.200 | 0.0235 | 101 | 75 | 125 | | | |
| Beryllium | 0.182 | 0.00100 | 0.200 | 0.00180 | 89.9 | 75 | 125 | | | |
| Cadmium | 0.196 | 0.00100 | 0.200 | 0.000981 | 97.8 | 75 | 125 | | | |
| Calcium | 127 | 0.300 | 5.00 | 130 | -53.6 | 75 | 125 | | | S |
| Chromium | 0.204 | 0.00500 | 0.200 | 0 | 102 | 75 | 125 | | | |
| Cobalt | 0.188 | 0.00500 | 0.200 | 0 | 94.2 | 75 | 125 | | | |
| Lead | 0.197 | 0.00100 | 0.200 | 0.000950 | 97.9 | 75 | 125 | | | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAP certified

CLIENT: Golder
Work Order: 2106017
Project: 1H21 Coletto Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_210607B

| Sample ID: 2106021-01C PDS | Batch ID: 100822 | TestNo: SW6020B | Units: mg/L | | | | | | | |
|-----------------------------------|--------------------------------|--|----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: PDS | Run ID: ICP-MS5_210607B | Analysis Date: 6/7/2021 12:41:00 PM | Prep Date: 6/4/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.376 | 0.0100 | 0.200 | 0.196 | 89.9 | 75 | 125 | | | |
| Molybdenum | 0.213 | 0.00500 | 0.200 | 0.0123 | 100 | 75 | 125 | | | |
| Selenium | 0.213 | 0.00500 | 0.200 | 0.00912 | 102 | 75 | 125 | | | |
| Thallium | 0.195 | 0.00150 | 0.200 | 0.00106 | 96.8 | 75 | 125 | | | |

| Sample ID: 2106021-01C MS | Batch ID: 100822 | TestNo: SW6020B | Units: mg/L | | | | | | | |
|----------------------------------|--------------------------------|--|----------------------------|----------|------|----------|-----------|------|----------|------|
| SampType: MS | Run ID: ICP-MS5_210607B | Analysis Date: 6/7/2021 12:44:00 PM | Prep Date: 6/4/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Antimony | 0.198 | 0.00250 | 0.200 | 0.00114 | 98.6 | 75 | 125 | | | |
| Arsenic | 0.206 | 0.00500 | 0.200 | 0.0196 | 93.4 | 75 | 125 | | | |
| Barium | 0.222 | 0.0100 | 0.200 | 0.0235 | 99.1 | 75 | 125 | | | |
| Beryllium | 0.179 | 0.00100 | 0.200 | 0.00180 | 88.7 | 75 | 125 | | | |
| Cadmium | 0.194 | 0.00100 | 0.200 | 0.000981 | 96.3 | 75 | 125 | | | |
| Calcium | 132 | 0.300 | 5.00 | 130 | 44.4 | 75 | 125 | | | S |
| Chromium | 0.198 | 0.00500 | 0.200 | 0 | 99.0 | 75 | 125 | | | |
| Cobalt | 0.184 | 0.00500 | 0.200 | 0 | 91.9 | 75 | 125 | | | |
| Lead | 0.194 | 0.00100 | 0.200 | 0.000950 | 96.4 | 75 | 125 | | | |
| Lithium | 0.387 | 0.0100 | 0.200 | 0.196 | 95.6 | 75 | 125 | | | |
| Molybdenum | 0.215 | 0.00500 | 0.200 | 0.0123 | 101 | 75 | 125 | | | |
| Selenium | 0.212 | 0.00500 | 0.200 | 0.00912 | 101 | 75 | 125 | | | |
| Thallium | 0.195 | 0.00150 | 0.200 | 0.00106 | 96.9 | 75 | 125 | | | |

| Sample ID: 2106021-01C MSD | Batch ID: 100822 | TestNo: SW6020B | Units: mg/L | | | | | | | |
|-----------------------------------|--------------------------------|--|----------------------------|----------|------|----------|-----------|-------|----------|------|
| SampType: MSD | Run ID: ICP-MS5_210607B | Analysis Date: 6/7/2021 12:47:00 PM | Prep Date: 6/4/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Antimony | 0.195 | 0.00250 | 0.200 | 0.00114 | 97.0 | 75 | 125 | 1.54 | 15 | |
| Arsenic | 0.203 | 0.00500 | 0.200 | 0.0196 | 91.7 | 75 | 125 | 1.61 | 15 | |
| Barium | 0.217 | 0.0100 | 0.200 | 0.0235 | 96.6 | 75 | 125 | 2.27 | 15 | |
| Beryllium | 0.179 | 0.00100 | 0.200 | 0.00180 | 88.5 | 75 | 125 | 0.248 | 15 | |
| Cadmium | 0.190 | 0.00100 | 0.200 | 0.000981 | 94.7 | 75 | 125 | 1.74 | 15 | |
| Calcium | 130 | 0.300 | 5.00 | 130 | 2.49 | 75 | 125 | 1.60 | 15 | S |
| Chromium | 0.195 | 0.00500 | 0.200 | 0 | 97.4 | 75 | 125 | 1.68 | 15 | |
| Cobalt | 0.180 | 0.00500 | 0.200 | 0 | 90.0 | 75 | 125 | 2.15 | 15 | |
| Lead | 0.191 | 0.00100 | 0.200 | 0.000950 | 95.1 | 75 | 125 | 1.33 | 15 | |
| Lithium | 0.387 | 0.0100 | 0.200 | 0.196 | 95.9 | 75 | 125 | 0.113 | 15 | |
| Molybdenum | 0.212 | 0.00500 | 0.200 | 0.0123 | 99.9 | 75 | 125 | 1.41 | 15 | |
| Selenium | 0.211 | 0.00500 | 0.200 | 0.00912 | 101 | 75 | 125 | 0.488 | 15 | |
| Thallium | 0.193 | 0.00150 | 0.200 | 0.00106 | 95.8 | 75 | 125 | 1.18 | 15 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAP certified

CLIENT: Golder
Work Order: 2106017
Project: 1H21 Coleta Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_210607B

| | | | |
|------------------------------|--------------------------------|--|--------------------|
| Sample ID: ICV-210607 | Batch ID: R115706 | TestNo: SW6020B | Units: mg/L |
| SampType: ICV | Run ID: ICP-MS5_210607B | Analysis Date: 6/7/2021 10:35:00 AM | Prep Date: |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.0982 | 0.00250 | 0.100 | 0 | 98.2 | 90 | 110 | | | |
| Arsenic | 0.0968 | 0.00500 | 0.100 | 0 | 96.8 | 90 | 110 | | | |
| Barium | 0.0980 | 0.0100 | 0.100 | 0 | 98.0 | 90 | 110 | | | |
| Beryllium | 0.0936 | 0.00100 | 0.100 | 0 | 93.6 | 90 | 110 | | | |
| Cadmium | 0.0995 | 0.00100 | 0.100 | 0 | 99.5 | 90 | 110 | | | |
| Calcium | 2.39 | 0.300 | 2.50 | 0 | 95.7 | 90 | 110 | | | |
| Chromium | 0.102 | 0.00500 | 0.100 | 0 | 102 | 90 | 110 | | | |
| Cobalt | 0.0974 | 0.00500 | 0.100 | 0 | 97.4 | 90 | 110 | | | |
| Lead | 0.0973 | 0.00100 | 0.100 | 0 | 97.3 | 90 | 110 | | | |
| Lithium | 0.0951 | 0.0100 | 0.100 | 0 | 95.1 | 90 | 110 | | | |
| Molybdenum | 0.0966 | 0.00500 | 0.100 | 0 | 96.6 | 90 | 110 | | | |
| Selenium | 0.0973 | 0.00500 | 0.100 | 0 | 97.3 | 90 | 110 | | | |
| Thallium | 0.0961 | 0.00150 | 0.100 | 0 | 96.1 | 90 | 110 | | | |

| | | | |
|-------------------------------|--------------------------------|--|--------------------|
| Sample ID: LCVL-210607 | Batch ID: R115706 | TestNo: SW6020B | Units: mg/L |
| SampType: LCVL | Run ID: ICP-MS5_210607B | Analysis Date: 6/7/2021 10:40:00 AM | Prep Date: |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.00195 | 0.00250 | 0.00200 | 0 | 97.3 | 80 | 120 | | | |
| Arsenic | 0.00471 | 0.00500 | 0.00500 | 0 | 94.2 | 80 | 120 | | | |
| Barium | 0.00523 | 0.0100 | 0.00500 | 0 | 105 | 80 | 120 | | | |
| Beryllium | 0.00101 | 0.00100 | 0.00100 | 0 | 101 | 80 | 120 | | | |
| Cadmium | 0.00103 | 0.00100 | 0.00100 | 0 | 103 | 80 | 120 | | | |
| Calcium | 0.0969 | 0.300 | 0.100 | 0 | 96.9 | 80 | 120 | | | |
| Chromium | 0.00510 | 0.00500 | 0.00500 | 0 | 102 | 80 | 120 | | | |
| Cobalt | 0.00477 | 0.00500 | 0.00500 | 0 | 95.4 | 80 | 120 | | | |
| Lead | 0.00102 | 0.00100 | 0.00100 | 0 | 102 | 80 | 120 | | | |
| Lithium | 0.00978 | 0.0100 | 0.0100 | 0 | 97.8 | 80 | 120 | | | |
| Molybdenum | 0.00517 | 0.00500 | 0.00500 | 0 | 103 | 80 | 120 | | | |
| Selenium | 0.00492 | 0.00500 | 0.00500 | 0 | 98.5 | 80 | 120 | | | |
| Thallium | 0.000981 | 0.00150 | 0.00100 | 0 | 98.1 | 80 | 120 | | | |

| | | | |
|-------------------------------|--------------------------------|--|--------------------|
| Sample ID: CCV2-210607 | Batch ID: R115706 | TestNo: SW6020B | Units: mg/L |
| SampType: CCV | Run ID: ICP-MS5_210607B | Analysis Date: 6/7/2021 11:58:00 AM | Prep Date: |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|-----------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.194 | 0.00250 | 0.200 | 0 | 97.2 | 90 | 110 | | | |
| Arsenic | 0.198 | 0.00500 | 0.200 | 0 | 99.0 | 90 | 110 | | | |
| Barium | 0.196 | 0.0100 | 0.200 | 0 | 97.8 | 90 | 110 | | | |
| Beryllium | 0.185 | 0.00100 | 0.200 | 0 | 92.4 | 90 | 110 | | | |
| Cadmium | 0.197 | 0.00100 | 0.200 | 0 | 98.3 | 90 | 110 | | | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAP certified

CLIENT: Golder
 Work Order: 2106017
 Project: 1H21 Coleta Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_210607B

| | | | |
|-------------------------------|--------------------------------|--|--------------------|
| Sample ID: CCV2-210607 | Batch ID: R115706 | TestNo: SW6020B | Units: mg/L |
| SampType: CCV | Run ID: ICP-MS5_210607B | Analysis Date: 6/7/2021 11:58:00 AM | Prep Date: |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Calcium | 5.28 | 0.300 | 5.00 | 0 | 106 | 90 | 110 | | | |
| Chromium | 0.198 | 0.00500 | 0.200 | 0 | 98.9 | 90 | 110 | | | |
| Cobalt | 0.196 | 0.00500 | 0.200 | 0 | 97.9 | 90 | 110 | | | |
| Lead | 0.193 | 0.00100 | 0.200 | 0 | 96.7 | 90 | 110 | | | |
| Lithium | 0.188 | 0.0100 | 0.200 | 0 | 93.9 | 90 | 110 | | | |
| Molybdenum | 0.197 | 0.00500 | 0.200 | 0 | 98.5 | 90 | 110 | | | |
| Selenium | 0.200 | 0.00500 | 0.200 | 0 | 100 | 90 | 110 | | | |
| Thallium | 0.190 | 0.00150 | 0.200 | 0 | 94.8 | 90 | 110 | | | |

| | | | |
|-------------------------------|--------------------------------|--|--------------------|
| Sample ID: CCV3-210607 | Batch ID: R115706 | TestNo: SW6020B | Units: mg/L |
| SampType: CCV | Run ID: ICP-MS5_210607B | Analysis Date: 6/7/2021 12:49:00 PM | Prep Date: |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.199 | 0.00250 | 0.200 | 0 | 99.5 | 90 | 110 | | | |
| Arsenic | 0.200 | 0.00500 | 0.200 | 0 | 99.9 | 90 | 110 | | | |
| Barium | 0.201 | 0.0100 | 0.200 | 0 | 100 | 90 | 110 | | | |
| Beryllium | 0.190 | 0.00100 | 0.200 | 0 | 94.8 | 90 | 110 | | | |
| Cadmium | 0.201 | 0.00100 | 0.200 | 0 | 101 | 90 | 110 | | | |
| Calcium | 5.49 | 0.300 | 5.00 | 0 | 110 | 90 | 110 | | | |
| Chromium | 0.203 | 0.00500 | 0.200 | 0 | 102 | 90 | 110 | | | |
| Cobalt | 0.200 | 0.00500 | 0.200 | 0 | 99.8 | 90 | 110 | | | |
| Lead | 0.197 | 0.00100 | 0.200 | 0 | 98.4 | 90 | 110 | | | |
| Lithium | 0.198 | 0.0100 | 0.200 | 0 | 99.2 | 90 | 110 | | | |
| Molybdenum | 0.204 | 0.00500 | 0.200 | 0 | 102 | 90 | 110 | | | |
| Selenium | 0.200 | 0.00500 | 0.200 | 0 | 99.8 | 90 | 110 | | | |
| Thallium | 0.195 | 0.00150 | 0.200 | 0 | 97.4 | 90 | 110 | | | |

Qualifiers:

| | | | |
|----|---|-----|---------------------------------------|
| B | Analyte detected in the associated Method Blank | DF | Dilution Factor |
| J | Analyte detected between MDL and RL | MDL | Method Detection Limit |
| ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| RL | Reporting Limit | S | Spike Recovery outside control limits |
| J | Analyte detected between SDL and RL | N | Parameter not NELAP certified |

CLIENT: Golder
Work Order: 2106017
Project: 1H21 Coleta Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_210527A

| | | | |
|-------------------------------|----------------------------|--|-----------------------------|
| Sample ID: DCS3-100738 | Batch ID: 100738 | TestNo: E300 | Units: mg/L |
| SampType: DCS3 | Run ID: IC2_210527A | Analysis Date: 5/27/2021 4:13:05 PM | Prep Date: 5/27/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Chloride | 1.25 | 1.00 | 1.000 | 0 | 125 | 70 | 130 | 0 | 0 | |
| Fluoride | 0.408 | 0.400 | 0.4000 | 0 | 102 | 70 | 130 | 0 | 0 | |
| Sulfate | 3.03 | 3.00 | 3.000 | 0 | 101 | 70 | 130 | 0 | 0 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL

DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAP certified

CLIENT: Golder
 Work Order: 2106017
 Project: 1H21 Coleta Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_210603A

The QC data in batch 100816 applies to the following samples: 2106017-01B, 2106017-02B, 2106017-03B

| | | | | | | | | | | |
|-----------------------------|----------------------------|--|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: MB-100816 | Batch ID: 100816 | TestNo: E300 | Units: mg/L | | | | | | | |
| SampType: MBLK | Run ID: IC2_210603A | Analysis Date: 6/3/2021 11:47:09 AM | Prep Date: 6/3/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | <0.300 | 1.00 | | | | | | | | |
| Fluoride | <0.100 | 0.400 | | | | | | | | |
| Sulfate | <1.00 | 3.00 | | | | | | | | |

| | | | | | | | | | | |
|------------------------------|----------------------------|--|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: LCS-100816 | Batch ID: 100816 | TestNo: E300 | Units: mg/L | | | | | | | |
| SampType: LCS | Run ID: IC2_210603A | Analysis Date: 6/3/2021 12:03:09 PM | Prep Date: 6/3/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 9.51 | 1.00 | 10.00 | 0 | 95.1 | 90 | 110 | | | |
| Fluoride | 3.80 | 0.400 | 4.000 | 0 | 95.0 | 90 | 110 | | | |
| Sulfate | 29.5 | 3.00 | 30.00 | 0 | 98.2 | 90 | 110 | | | |

| | | | | | | | | | | |
|-------------------------------|----------------------------|--|----------------------------|---------|------|----------|-----------|-------|----------|------|
| Sample ID: LCSD-100816 | Batch ID: 100816 | TestNo: E300 | Units: mg/L | | | | | | | |
| SampType: LCSD | Run ID: IC2_210603A | Analysis Date: 6/3/2021 12:19:09 PM | Prep Date: 6/3/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 9.54 | 1.00 | 10.00 | 0 | 95.4 | 90 | 110 | 0.304 | 20 | |
| Fluoride | 3.82 | 0.400 | 4.000 | 0 | 95.4 | 90 | 110 | 0.496 | 20 | |
| Sulfate | 29.6 | 3.00 | 30.00 | 0 | 98.5 | 90 | 110 | 0.320 | 20 | |

| | | | | | | | | | | |
|---------------------------------|----------------------------|---|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: 2106010-01BMS | Batch ID: 100816 | TestNo: E300 | Units: mg/L | | | | | | | |
| SampType: MS | Run ID: IC2_210603A | Analysis Date: 6/3/2021 2:55:12 PM | Prep Date: 6/3/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 222 | 10.0 | 200.0 | 23.89 | 98.8 | 90 | 110 | | | |
| Fluoride | 216 | 4.00 | 200.0 | 20.91 | 97.4 | 90 | 110 | | | |
| Sulfate | 848 | 30.0 | 200.0 | 690.1 | 79.1 | 90 | 110 | | | S |

| | | | | | | | | | | |
|----------------------------------|----------------------------|---|----------------------------|---------|------|----------|-----------|-------|----------|------|
| Sample ID: 2106010-01BMSD | Batch ID: 100816 | TestNo: E300 | Units: mg/L | | | | | | | |
| SampType: MSD | Run ID: IC2_210603A | Analysis Date: 6/3/2021 3:11:11 PM | Prep Date: 6/3/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 222 | 10.0 | 200.0 | 23.89 | 99.1 | 90 | 110 | 0.264 | 20 | |
| Fluoride | 218 | 4.00 | 200.0 | 20.91 | 98.3 | 90 | 110 | 0.848 | 20 | |
| Sulfate | 856 | 30.0 | 200.0 | 690.1 | 82.8 | 90 | 110 | 0.862 | 20 | S |

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
 J Analyte detected between MDL and RL MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
 RL Reporting Limit S Spike Recovery outside control limits
 J Analyte detected between SDL and RL N Parameter not NELAP certified

CLIENT: Golder
Work Order: 2106017
Project: 1H21 Coleta Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_210603A

| | | | |
|------------------------------|----------------------------|--|--------------------|
| Sample ID: ICV-210603 | Batch ID: R115680 | TestNo: E300 | Units: mg/L |
| SampType: ICV | Run ID: IC2_210603A | Analysis Date: 6/3/2021 11:15:09 AM | Prep Date: |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Chloride | 25.1 | 1.00 | 25.00 | 0 | 100 | 90 | 110 | | | |
| Fluoride | 9.92 | 0.400 | 10.00 | 0 | 99.2 | 90 | 110 | | | |
| Sulfate | 77.8 | 3.00 | 75.00 | 0 | 104 | 90 | 110 | | | |

| | | | |
|-------------------------------|----------------------------|---|--------------------|
| Sample ID: CCV1-210603 | Batch ID: R115680 | TestNo: E300 | Units: mg/L |
| SampType: CCV | Run ID: IC2_210603A | Analysis Date: 6/3/2021 6:07:11 PM | Prep Date: |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Chloride | 9.67 | 1.00 | 10.00 | 0 | 96.7 | 90 | 110 | | | |
| Fluoride | 3.91 | 0.400 | 4.000 | 0 | 97.8 | 90 | 110 | | | |
| Sulfate | 29.9 | 3.00 | 30.00 | 0 | 99.8 | 90 | 110 | | | |

Qualifiers:

- B Analyte detected in the associated Method Blank
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- J Analyte detected between SDL and RL

- DF Dilution Factor
- MDL Method Detection Limit
- R RPD outside accepted control limits
- S Spike Recovery outside control limits
- N Parameter not NELAP certified

CLIENT: Golder
Work Order: 2106017
Project: 1H21 Coleta Creek GW

ANALYTICAL QC SUMMARY REPORT

RunID: WC_210604A

The QC data in batch 100830 applies to the following samples: 2106017-01B, 2106017-02B, 2106017-03B

| | | | | | | | | | | |
|--|---------------------------|---|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: MB-100830 | Batch ID: 100830 | TestNo: M2540C | Units: mg/L | | | | | | | |
| SampType: MBLK | Run ID: WC_210604A | Analysis Date: 6/4/2021 5:00:00 PM | Prep Date: 6/4/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Total Dissolved Solids (Residue, Filtera | | | | | | | | | | |
| | <10.0 | 10.0 | | | | | | | | |

| | | | | | | | | | | |
|--|---------------------------|---|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: LCS-100830 | Batch ID: 100830 | TestNo: M2540C | Units: mg/L | | | | | | | |
| SampType: LCS | Run ID: WC_210604A | Analysis Date: 6/4/2021 5:00:00 PM | Prep Date: 6/4/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Total Dissolved Solids (Residue, Filtera | | | | | | | | | | |
| | 751 | 10.0 | 745.6 | 0 | 101 | 90 | 113 | | | |

| | | | | | | | | | | |
|--|---------------------------|---|----------------------------|---------|------|----------|-----------|-------|----------|------|
| Sample ID: 2106009-01A-DUP | Batch ID: 100830 | TestNo: M2540C | Units: mg/L | | | | | | | |
| SampType: DUP | Run ID: WC_210604A | Analysis Date: 6/4/2021 5:00:00 PM | Prep Date: 6/4/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Total Dissolved Solids (Residue, Filtera | | | | | | | | | | |
| | 1110 | 50.0 | 0 | 1115 | | | | 0.901 | 5 | |

| | | | | | | | | | | |
|--|---------------------------|---|----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: 2106009-02A-DUP | Batch ID: 100830 | TestNo: M2540C | Units: mg/L | | | | | | | |
| SampType: DUP | Run ID: WC_210604A | Analysis Date: 6/4/2021 5:00:00 PM | Prep Date: 6/4/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Total Dissolved Solids (Residue, Filtera | | | | | | | | | | |
| | 1200 | 50.0 | 0 | 1235 | | | | 2.87 | 5 | |

Qualifiers:

| | |
|---|---|
| B Analyte detected in the associated Method Blank | DF Dilution Factor |
| J Analyte detected between MDL and RL | MDL Method Detection Limit |
| ND Not Detected at the Method Detection Limit | R RPD outside accepted control limits |
| RL Reporting Limit | S Spike Recovery outside control limits |
| J Analyte detected between SDL and RL | N Parameter not NELAP certified |

CLIENT: Golder
Work Order: 2106017
Project: 1H21 Coleta Creek GW

MQL SUMMARY REPORT

| TestNo: E300 | MDL | MQL |
|---------------------|-------------|-------------|
| Analyte | mg/L | mg/L |
| Chloride | 0.300 | 1.00 |
| Fluoride | 0.100 | 0.400 |
| Sulfate | 1.00 | 3.00 |

| TestNo: SW6020B | MDL | MQL |
|------------------------|-------------|-------------|
| Analyte | mg/L | mg/L |
| Antimony | 0.000800 | 0.00250 |
| Arsenic | 0.00200 | 0.00500 |
| Barium | 0.00300 | 0.0100 |
| Beryllium | 0.000300 | 0.00100 |
| Boron | 0.0100 | 0.0300 |
| Cadmium | 0.000300 | 0.00100 |
| Calcium | 0.100 | 0.300 |
| Chromium | 0.00200 | 0.00500 |
| Cobalt | 0.00300 | 0.00500 |
| Lead | 0.000300 | 0.00100 |
| Lithium | 0.00500 | 0.0100 |
| Molybdenum | 0.00200 | 0.00500 |
| Selenium | 0.00200 | 0.00500 |
| Thallium | 0.000500 | 0.00150 |

| TestNo: SW7470A | MDL | MQL |
|------------------------|-------------|-------------|
| Analyte | mg/L | mg/L |
| Mercury | 0.0000800 | 0.000200 |

| TestNo: M2540C | MDL | MQL |
|---------------------------------------|-------------|-------------|
| Analyte | mg/L | mg/L |
| Total Dissolved Solids (Residue, Filt | 10.0 | 10.0 |

Qualifiers: MQL -Method Quantitation Limit as defined by TRRP
MDL -Method Detection Limit as defined by TRRP

DHL Analytical, Inc.

Sample Delivery Group: L1363044

Samples Received: 06/08/2021

Project Number:

Description:

Report To: John DuPont
2300 Double Creek Drive
Round Rock, TX 78664

Entire Report Reviewed By:



Donna Eidson
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

APPENDIX E-Revision 2 October 10, 2023

ACCOUNT:
DHL Analytical, Inc.

PROJECT: 34

SDG:
L1363044

DATE/TIME:
07/09/21 08:29

PAGE:
1 of 12

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| | | ⁹Sc |

SAMPLE SUMMARY

BV-5 L1363044-01 Non-Potable Water

Collected by _____ Collected date/time 06/02/21 09:13 Received date/time 06/08/21 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904 | WG1695321 | 1 | 06/26/21 13:10 | 07/02/21 13:15 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1688247 | 1 | 07/01/21 09:59 | 07/02/21 16:15 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1688247 | 1 | 07/01/21 09:59 | 07/02/21 16:15 | RGT | Mt. Juliet, TN |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

MW-4 L1363044-02 Non-Potable Water

Collected by _____ Collected date/time 06/02/21 10:30 Received date/time 06/08/21 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904 | WG1695321 | 1 | 06/26/21 13:10 | 07/02/21 13:15 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1688247 | 1 | 07/01/21 09:59 | 07/02/21 16:15 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1688247 | 1 | 07/01/21 09:59 | 07/02/21 16:15 | RGT | Mt. Juliet, TN |

BV-21 L1363044-03 Non-Potable Water

Collected by _____ Collected date/time 06/02/21 11:25 Received date/time 06/08/21 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904 | WG1695321 | 1 | 06/26/21 13:10 | 07/02/21 13:15 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1688247 | 1 | 07/01/21 09:59 | 07/02/21 16:15 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1688247 | 1 | 07/01/21 09:59 | 07/02/21 16:15 | RGT | Mt. Juliet, TN |

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Donna Eidson
Project Manager

- ¹Cp
- ²Tc
- ³Ss
- ⁴Cn
- ⁵Sr
- ⁶Qc
- ⁷Gl
- ⁸Al
- ⁹Sc

Radiochemistry by Method 904

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | -0.700 | <u>U</u> | 0.636 | 0.578 | 07/02/2021 13:15 | WG1695321 |
| (T) Barium | 93.3 | | | 62.0-143 | 07/02/2021 13:15 | WG1695321 |
| (T) Yttrium | 97.8 | | | 79.0-136 | 07/02/2021 13:15 | WG1695321 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.325 | <u>J</u> | 0.856 | 0.801 | 07/02/2021 16:15 | WG1688247 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.325 | | 0.220 | 0.223 | 07/02/2021 16:15 | WG1688247 |
| (T) Barium-133 | 96.7 | | | 30.0-143 | 07/02/2021 16:15 | WG1688247 |

Radiochemistry by Method 904

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.726 | | 0.516 | 0.452 | 07/02/2021 13:15 | WG1695321 |
| (T) Barium | 99.6 | | | 62.0-143 | 07/02/2021 13:15 | WG1695321 |
| (T) Yttrium | 90.8 | | | 79.0-136 | 07/02/2021 13:15 | WG1695321 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 1.02 | | 0.725 | 0.654 | 07/02/2021 16:15 | WG1688247 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.298 | | 0.209 | 0.202 | 07/02/2021 16:15 | WG1688247 |
| (T) Barium-133 | 97.0 | | | 30.0-143 | 07/02/2021 16:15 | WG1688247 |

Radiochemistry by Method 904

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.392 | J | 0.501 | 0.443 | 07/02/2021 13:15 | WG1695321 |
| (T) Barium | 106 | | | 62.0-143 | 07/02/2021 13:15 | WG1695321 |
| (T) Yttrium | 88.4 | | | 79.0-136 | 07/02/2021 13:15 | WG1695321 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.434 | J | 0.707 | 0.798 | 07/02/2021 16:15 | WG1688247 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.0424 | U | 0.206 | 0.355 | 07/02/2021 16:15 | WG1688247 |
| (T) Barium-133 | 100 | | | 30.0-143 | 07/02/2021 16:15 | WG1688247 |

Method Blank (MB)

(MB) R3676079-1 07/02/21 13:15

| Analyte | MB Result pCi/l | MB Qualifier | MB MDA pCi/l |
|-------------|--------------------|--------------|-----------------|
| Radium-228 | -0.388 | <u>U</u> | 0.302 |
| (T) Barium | 117 | | |
| (T) Yttrium | 89.7 | | |

L1369884-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1369884-04 07/02/21 13:15 • (DUP) R3676079-5 07/02/21 13:15

| Analyte | Original Result pCi/l | DUP Result pCi/l | Dilution | DUP RPD % | DUP RER | DUP Qualifier | DUP RPD Limits % | DUP RER Limit |
|-------------|--------------------------|---------------------|----------|--------------|---------|---------------|------------------------|---------------|
| Radium-228 | -0.198 | -0.243 | 1 | 0.000 | 0.0542 | <u>U</u> | 20 | 3 |
| (T) Barium | 101 | 112 | | | | | | |
| (T) Yttrium | 93.8 | 94.7 | | | | | | |

Laboratory Control Sample (LCS)

(LCS) R3676079-2 07/02/21 13:15

| Analyte | Spike Amount pCi/l | LCS Result pCi/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|-------------|-----------------------|---------------------|---------------|------------------|---------------|
| Radium-228 | 5.00 | 5.46 | 109 | 80.0-120 | |
| (T) Barium | | | 116 | | |
| (T) Yttrium | | | 99.2 | | |

L1369872-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1369872-01 07/02/21 13:15 • (MS) R3676079-3 07/02/21 13:15 • (MSD) R3676079-4 07/02/21 13:15

| Analyte | Spike Amount pCi/l | Original Result pCi/l | MS Result pCi/l | MSD Result pCi/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | MS RER | RPD Limits % |
|-------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|--------|-----------------|
| Radium-228 | 10.0 | 0.101 | 10.6 | 11.5 | 105 | 114 | 1 | 70.0-130 | | | 7.68 | | 20 |
| (T) Barium | | 107 | | | 116 | 106 | | | | | | | |
| (T) Yttrium | | 98.2 | | | 94.1 | 91.2 | | | | | | | |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3676480-1 07/02/21 15:48

| Analyte | MB Result pCi/l | MB Qualifier | MB MDA pCi/l |
|----------------|--------------------|--------------|-----------------|
| Radium-226 | 0.000 | <u>U</u> | 0.0244 |
| (T) Barium-133 | 91.6 | | |

¹Cp

²Tc

³Ss

L1372093-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1372093-01 07/02/21 16:15 • (DUP) R3676480-5 07/02/21 16:15

| Analyte | Original Result pCi/l | DUP Result pCi/l | Dilution | DUP RPD % | DUP RER | DUP Qualifier | DUP RPD Limits | DUP RER Limit |
|----------------|--------------------------|---------------------|----------|--------------|---------|---------------|-------------------|---------------|
| Radium-226 | 0.0241 | 0.0137 | 1 | 55.2 | 0.0621 | <u>U</u> | 20 | 3 |
| (T) Barium-133 | 96.0 | 97.0 | | | | | | |

⁴Cn

⁵Sr

⁶Qc

Laboratory Control Sample (LCS)

(LCS) R3676480-2 07/02/21 16:15

| Analyte | Spike Amount pCi/l | LCS Result pCi/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|----------------|-----------------------|---------------------|---------------|------------------|---------------|
| Radium-226 | 5.02 | 4.68 | 93.2 | 80.0-120 | |
| (T) Barium-133 | | | 103 | | |

⁷Gl

⁸Al

⁹Sc

L1363039-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1363039-01 07/02/21 16:15 • (MS) R3676480-3 07/02/21 16:15 • (MSD) R3676480-4 07/02/21 16:15

| Analyte | Spike Amount pCi/l | Original Result pCi/l | MS Result pCi/l | MSD Result pCi/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | MS RER | RPD Limits % |
|----------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|--------|-----------------|
| Radium-226 | 20.1 | 0.158 | 19.5 | 19.1 | 96.4 | 94.4 | 1 | 75.0-125 | | | 2.12 | | 20 |
| (T) Barium-133 | | 98.1 | | | 99.3 | 90.0 | | | | | | | |

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

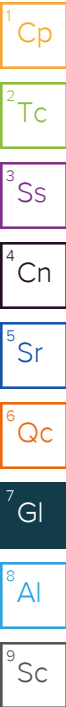
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

| | |
|------------------------------|--|
| MDA | Minimum Detectable Activity. |
| Rec. | Recovery. |
| RER | Replicate Error Ratio. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| (T) | Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation. |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Uncertainty (Radiochemistry) | Confidence level of 2 sigma. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|-----------|---|
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| U | Below Detectable Limits: Indicates that the analyte was not detected. |



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| | | | |
|-------------------------------|-------------|-----------------------------|------------------|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey–NELAP | TN002 |
| California | 2932 | New Mexico ¹ | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina ¹ | DW21704 |
| Georgia | NELAP | North Carolina ³ | 41 |
| Georgia ¹ | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio–VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LA000356 |
| Kentucky ^{1,6} | KY90010 | South Carolina | 84004002 |
| Kentucky ² | 16 | South Dakota | n/a |
| Louisiana | AI30792 | Tennessee ^{1,4} | 2006 |
| Louisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas ⁵ | LAB0152 |
| Maryland | 324 | Utah | TN000032021-11 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 110033 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 998093910 |
| Montana | CERT0086 | Wyoming | A2LA |
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 ⁵ | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA–Crypto | TN00003 | | |

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



DHL Analytical, Inc.
 2300 Double Creek Drive
 Round Rock, TX 78664

CHAIN-OF-CUSTODY RECORD

TEL: (512) 388-8222

FAX: (512) 388-8229

Work Order: 2106017

A127

Subcontractor:

Pace Analytical
 12065 Lebanon Rd
 Mt. Juliet, TN 37122

TEL: (615) 773-5923
 FAX:
 Acct #: DHLRRTX

L1363044
 03-Jun-21

| Sample ID | Matrix | DHL# | Date Collected | Bottle Type | Requested Tests | | | | | | | | | | | | |
|-----------|---------|------|-------------------|-------------|-----------------|--------------|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | Ra-228 | Ra-226 | | | | | | | | | | | |
| | | | | | E904.0 | M7500 Ra B M | | | | | | | | | | | |
| BV-5 | Aqueous | 01C | 06/02/21 09:13 AM | 1LHDPE | | 1 | | | | | | | | | | | |
| BV-5 | Aqueous | 01D | 06/02/21 09:13 AM | 1LHDPE | 1 | | | | | | | | | | | | |
| MW-4 | Aqueous | 02C | 06/02/21 10:30 AM | 1LHDPE | | 1 | | | | | | | | | | | |
| MW-4 | Aqueous | 02D | 06/02/21 10:30 AM | 1LHDPE | 1 | | | | | | | | | | | | |
| BV-21 | Aqueous | 03C | 06/02/21 11:25 AM | 1LHDPE | | 1 | | | | | | | | | | | |
| BV-21 | Aqueous | 03D | 06/02/21 11:25 AM | 1LHDPE | 1 | | | | | | | | | | | | |





01
 01
 02
 02
 03
 03

Sample Receipt Checklist
 COC Seal Present/Intact: Y N
 COC Signed/Accurate: Y N
 Bottles arrive intact: Y N
 Correct bottles used: Y N
 Sufficient volume sent: Y N
 RAD Screen <0.5 mR/hr: Y N
 If Applicable
 VOA Zero Headspace: Y N
 Pres. Correct/Check: Y N

General Comments:

Please analyze these samples with Normal Turnaround Time.
 Report Ra-226, Ra-228 & Combined per Specs.
 Quality Control Package Needed: Standard - NELAC Rad Test compliant
 Email to cac@dhlanalytical.com & dupont@dhlanalytical.com

21.0 - 1 = 20.9
 Abot

| | | | | | |
|--|--|------------------------|--|--|------------------------|
| Relinquished by:  | | Date/Time: 6/4/21 | Received by:  | | Date/Time: 6/8/21 1000 |
| Relinquished by:  | | Date/Time: 6/3/21 1700 | Received by:  | | Date/Time: 6/8/21 1000 |



July 30, 2021

Will Vienne
Golder
2201 Double Creek Dr #4004
Round Rock, Texas 78664
TEL: (512) 671-3434
FAX (512) 671-3446
RE: 1H21 Coleta Creek

Order No.: 2106204

Dear Will Vienne:

DHL Analytical, Inc. received 7 sample(s) on 6/26/2021 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAP except where noted in the Case Narrative. All non-NELAP methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

A handwritten signature in red ink, appearing to read 'John DuPont'.

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-21-27



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| MQLSummaryReport 2106204 | 43 |
| Subcontract Report 2106204 | 44 |



New Address

2300 Double Creek Dr. Round Rock, TX 78664

Phone 512.388.8222

Web: www.dhlanalytical.com

Email: login@dhlanalytical.com

CHAIN-OF-CUSTODY

PAGE 1 OF 1

CLIENT: *Golden Associates*

ADDRESS: *1501 E. Mockingbird Ln Victoria, TX. 77904*

PHONE: *361-53-6442* EMAIL: _____

DATA REPORTED TO: *Will Vienne*

ADDITIONAL REPORT COPIES TO: *Greg Logan Jr.*

LABORATORY USE ONLY

DHL WORKORDER #: *2106204*

PO#: *19122262-B2021*

PROJECT LOCATION OR NAME: *1421 Colego Creek*

CLIENT PROJECT # *19122262-B2021*

COLLECTOR: *Greg Logan Jr.*

| Field Sample I.D. | DHL Lab # | Collection Date | Collection Time | Matrix | Container Type | # of Containers | PRESERVATION | | ANALYSES | | | | | | | | | | | | | | | | | FIELD NOTES | | | | | | | |
|-------------------|-----------|-----------------|-----------------|----------|----------------|-----------------|--------------|-------------------------------------|--------------------------|--------------------------|--------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-----|
| | | | | | | | W=Water | SE=SEDIMENT | HCL | HNO ₃ | H ₂ SO ₄ | NaOH | Zn Acetate | ICE | UNPRESERVED | BTEX | MTBE | TPH | GRO | VOC | SVOC | PAH | PEST | PCB | HERB | | METALS | RCRA | PH | ANIONS | TCLP-SVOC | TCLP-METALS | RCI |
| <i>MW-8</i> | <i>01</i> | <i>6-25-21</i> | <i>9:30</i> | <i>W</i> | <i>P</i> | <i>4</i> | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| <i>MW-6</i> | <i>02</i> | | <i>10:55</i> | <i>W</i> | <i>P</i> | <i>4</i> | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| <i>MW-11</i> | <i>03</i> | | <i>12:00</i> | | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| <i>MW-101</i> | <i>04</i> | | <i>12:40</i> | | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| <i>MW-9</i> | <i>05</i> | | <i>13:00</i> | | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| <i>MW-10</i> | <i>06</i> | | <i>13:50</i> | | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| <i>MW-5</i> | <i>07</i> | | <i>15:00</i> | | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| <i>MW-962</i> | | | | | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

Relinquished By: (Sign) *[Signature]* DATE/TIME *6-25-21 11:00* Received by: *Fel Ex*

Relinquished By: (Sign) **FEDEX** DATE/TIME *6/26/21 3:30PM* Received by: *Alex J*

Relinquished By: (Sign) _____ DATE/TIME _____ Received by: _____

TURN AROUND TIME (CALL FIRST FOR RUSH)

RUSH-1 DAY RUSH-2 DAY RUSH-3 DAY NORMAL OTHER

DUE DATE _____

LABORATORY USE ONLY

RECEIVING TEMP (°C): *4.5 4.5* THERM #: *78*

CUSTODY SEALS: BROKEN INTACT NOT USED

CARRIER: LSO FEDEX UPS COURIER OTHER

HAND DELIVERED

Eric Lau

From: John DuPont
Sent: Tuesday, May 28, 2019 11:35 AM
To: Eric Lau
Subject: FW: CCR Analysis

Appendix III Parameters:

Metals (Ca and B)
Anions (Cl, F, and SO₄)
TDS

Appendix IV Parameters:

Metals (As, Ba, Be, Cd, Co, Cr, Hg, Li, Mo, Pb, Sb, Se, and Tl)
Ra-226
Ra-228

From: Vienne, Will [mailto:William_Vienne@golder.com]
Sent: Tuesday, April 09, 2019 12:48 PM
To: John DuPont <dupont@dhlanalytical.com>
Subject: CCR Analysis

ORIGIN ID: VCTA (361) 573-6442
GREG LOGAN JR.
GOLDER ASSOCIATES INC.
1501 E. MOCKINGBIRD LN

SHIP DATE: 25JUN21
ACTWGT: 30.00 LB
CAD: 2806631/INET4340
DIMS: 24x13x14 IN

VICTORIA, TX 77904
UNITED STATES US

BILL SENDER

TO **SAMPLE RECEIVING**
DHL ANALYTICAL
2300 DOUBLE CREEK DR

ROUND ROCK TX 78664

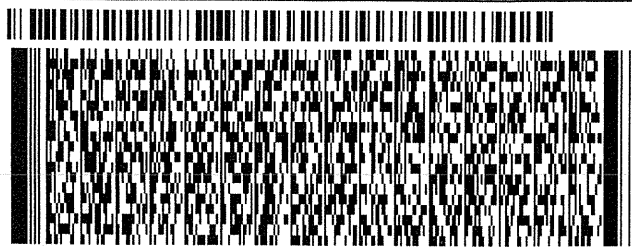
(512) 388-8222

REF 19122262-62021

INV.
PO:

DEPT:

FedEx Ship Manager - Print Your Label(s)



56DJ9E687/FE4A

J211321033101uv

1 of 2

SATURDAY 12:00P

PRIORITY OVERNIGHT

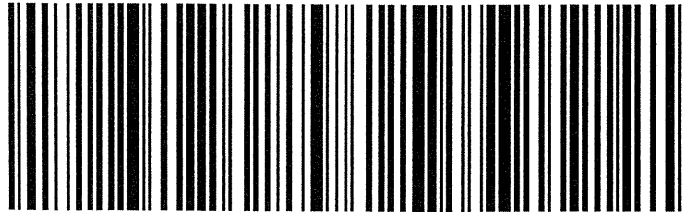
TRK# **7740 9931 4402**

0201
MASTER

X0 BSMA

78664

TX-US **AUS**



6/25/2021

CUSTODY SEAL

DATE _____

SIGNATURE _____



ORIGIN ID:VCTA (361) 573-6442
GREG LOGAN JR.
GOLDER ASSOCIATES INC.
1501 E. MOCKINGBIRD LN

SHIP DATE: 25JUN21
ACTWGT: 30.00 LB
CAD: 2806631/INET4340
DIMS: 24x13x14 IN

VICTORIA, TX 77904
UNITED STATES US

BILL SENDER

TO **SAMPLE RECEIVING**
DHL ANALYTICAL
2300 DOUBLE CREEK DR

ROUND ROCK TX 78664

(512) 388-8222

REF: 19122262-B2021

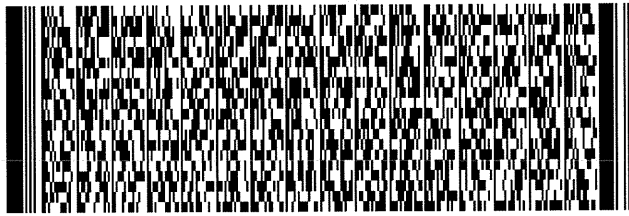
INV:

PO:

DEPT:

56DUG687/FE4A

FedEx Ship Manager - Print Your Label(s)



FedEx
Express



J2113221033101W

SATURDAY 12:00P

PRIORITY OVERNIGHT

2 of 2

MPS# **7740 9931 4078**

0263

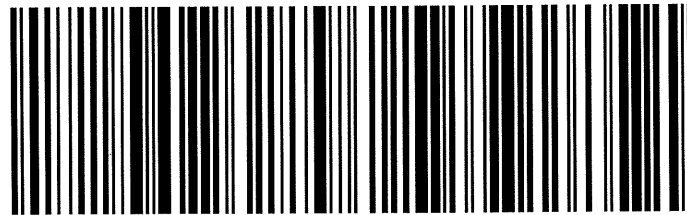
Mstr# **7740 9931 4402**

0201

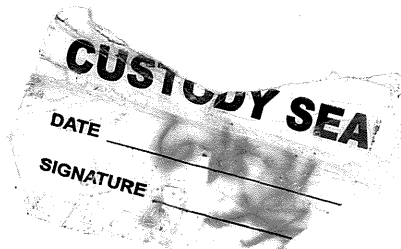
X0 BSMA

78664

TX-US **AUS**



6/25/2021



Sample Receipt Checklist

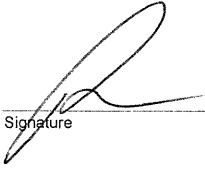
Client Name Golder

Date Received: 6/28/2021

Work Order Number 2106204

Received by: AH

Checklist completed by:



6/28/2021

Signature

Date

Reviewed by



Initials

6/28/2021

Date

Carrier name: FedEx 1day

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No

- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No 4.5 °C
- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH<2 acceptable upon receipt? Yes No NA LOT # 13171
- Adjusted? NO Checked by R.A.
- Water - pH>9 (S) or pH>10 (CN) acceptable upon receipt? Yes No NA LOT #
- Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted: _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action: _____

| Laboratory Name: DHL Analytical, Inc. | | | | | | | |
|---|----------------|---|-----|---|-----------------|-----------------|------------------|
| Laboratory Review Checklist: Reportable Data | | | | | | | |
| Project Name: 1H21 Coleta Creek | | | | LRC Date: 7/30/21 | | | |
| Reviewer Name: Carlos Castro | | | | Laboratory Work Order: 2106204 | | | |
| Prep Batch Number(s): See Prep Dates Report | | | | Run Batch: See Analytical Dates Report | | | |
| # ¹ | A ² | Description | Yes | No | NA ³ | NR ⁴ | ER# ⁵ |
| | | Chain-of-Custody (C-O-C) | | | | | |
| R1 | OI | 1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt? | X | | | | R1-01 |
| | | 2) Were all departures from standard conditions described in an exception report? | | | X | | |
| R2 | OI | Sample and Quality Control (QC) Identification | | | | | |
| | | 1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers? | X | | | | |
| | | 2) Are all laboratory ID numbers cross-referenced to the corresponding QC data? | X | | | | |
| R3 | OI | Test Reports | | | | | |
| | | 1) Were all samples prepared and analyzed within holding times? | X | | | | |
| | | 2) Other than those results < MQL, were all other raw values bracketed by calibration standards? | X | | | | |
| | | 3) Were calculations checked by a peer or supervisor? | X | | | | |
| | | 4) Were all analyte identifications checked by a peer or supervisor? | X | | | | |
| | | 5) Were sample detection limits reported for all analytes not detected? | X | | | | |
| | | 6) Were all results for soil and sediment samples reported on a dry weight basis? | | | X | | |
| | | 7) Were % moisture (or solids) reported for all soil and sediment samples? | | | X | | |
| | | 8) Were bulk soils/solids samples for volatile analysis extracted with methanol per EPA Method 5035? | | | X | | |
| | | 9) If required for the project, TICs reported? | | | X | | |
| R4 | O | Surrogate Recovery Data | | | | | |
| | | 1) Were surrogates added prior to extraction? | X | | | | |
| | | 2) Were surrogate percent recoveries in all samples within the laboratory QC limits? | X | | | | |
| R5 | OI | Test Reports/Summary Forms for Blank Samples | | | | | |
| | | 1) Were appropriate type(s) of blanks analyzed? | X | | | | |
| | | 2) Were blanks analyzed at the appropriate frequency? | X | | | | |
| | | 3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures? | X | | | | |
| | | 4) Were blank concentrations < MDL? | X | | | | |
| | | 5) For analyte(s) detected in a blank sample, was the concentration, unadjusted for sample specific factors, in all associated field samples, greater than 10 times the concentration in the blank sample? | | | X | | |
| R6 | OI | Laboratory Control Samples (LCS): | | | | | |
| | | 1) Were all COCs included in the LCS? | X | | | | |
| | | 2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps? | X | | | | |
| | | 3) Were LCSs analyzed at the required frequency? | X | | | | |
| | | 4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits? | X | | | | |
| | | 5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs? | X | | | | |
| | | 6) Was the LCSD RPD within QC limits (if applicable)? | X | | | | |
| R7 | OI | Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data | | | | | |
| | | 1) Were the project/method specified analytes included in the MS and MSD? | X | | | | |
| | | 2) Were MS/MSD analyzed at the appropriate frequency? | X | | | | |
| | | 3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits? | | X | | | R7-03 |
| | | 4) Were MS/MSD RPDs within laboratory QC limits? | X | | | | |
| R8 | OI | Analytical Duplicate Data | | | | | |
| | | 1) Were appropriate analytical duplicates analyzed for each matrix? | X | | | | |
| | | 2) Were analytical duplicates analyzed at the appropriate frequency? | X | | | | |
| | | 3) Were RPDs or relative standard deviations within the laboratory QC limits? | X | | | | |
| R9 | OI | Method Quantitation Limits (MQLs): | | | | | |
| | | 1) Are the MQLs for each method analyte included in the laboratory data package? | X | | | | |
| | | 2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard? | X | | | | |
| | | 3) Are unadjusted MQLs and DCSs included in the laboratory data package? | X | | | | |
| R10 | OI | Other Problems/Anomalies | | | | | |
| | | 1) Are all known problems/anomalies/special conditions noted in this LRC and ER? | X | | | | |
| | | 2) Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results? | X | | | | |
| | | 3) Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package? | X | | | | |

| Laboratory Name: DHL Analytical, Inc. | | | | | | | |
|---|----------------|---|---|----|-----------------|-----------------|------------------|
| Laboratory Review Checklist (continued): Supporting Data | | | | | | | |
| Project Name: 1H21 Coletto Creek | | | LRC Date: 7/30/21 | | | | |
| Reviewer Name: Carlos Castro | | | Laboratory Work Order: 2106204 | | | | |
| Prep Batch Number(s): See Prep Dates Report | | | Run Batch: See Analytical Dates Report | | | | |
| # ¹ | A ² | Description | Yes | No | NA ³ | NR ⁴ | ER# ⁵ |
| S1 | OI | Initial Calibration (ICAL) | | | | | |
| | | 1) Were response factors and/or relative response factors for each analyte within QC limits? | X | | | | |
| | | 2) Were percent RSDs or correlation coefficient criteria met? | X | | | | |
| | | 3) Was the number of standards recommended in the method used for all analytes? | X | | | | |
| | | 4) Were all points generated between the lowest and highest standard used to calculate the curve? | X | | | | |
| | | 5) Are ICAL data available for all instruments used? | X | | | | |
| | | 6) Has the initial calibration curve been verified using an appropriate second source standard? | X | | | | |
| S2 | OI | Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB): | | | | | |
| | | 1) Was the CCV analyzed at the method-required frequency? | X | | | | |
| | | 2) Were percent differences for each analyte within the method-required QC limits?... | X | | | | |
| | | 3) Was the ICAL curve verified for each analyte? | X | | | | |
| | | 4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL? | X | | | | |
| S3 | O | Mass Spectral Tuning: | | | | | |
| | | 1) Was the appropriate compound for the method used for tuning? | X | | | | |
| | | 2) Were ion abundance data within the method-required QC limits? | X | | | | |
| S4 | O | Internal Standards (IS): | | | | | |
| | | 1) Were IS area counts and retention times within the method-required QC limits? | X | | | | |
| S5 | OI | Raw Data (NELAC Section 5.5.10) | | | | | |
| | | 1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst? | X | | | | |
| | | 2) Were data associated with manual integrations flagged on the raw data? | X | | | | |
| S6 | O | Dual Column Confirmation | | | | | |
| | | 1) Did dual column confirmation results meet the method-required QC? | | | X | | |
| S7 | O | Tentatively Identified Compounds (TICs): | | | | | |
| | | 1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks? | | | X | | |
| S8 | I | Interference Check Sample (ICS) Results: | | | | | |
| | | 1) Were percent recoveries within method QC limits? | X | | | | |
| S9 | I | Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions | | | | | |
| | | 1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method? | | X | | | S9-01 |
| S10 | OI | Method Detection Limit (MDL) Studies | | | | | |
| | | 1) Was a MDL study performed for each reported analyte? | X | | | | |
| | | 2) Is the MDL either adjusted or supported by the analysis of DCSs? | X | | | | |
| S11 | OI | Proficiency Test Reports: | | | | | |
| | | 1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies? | X | | | | |
| S12 | OI | Standards Documentation | | | | | |
| | | 1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources? | X | | | | |
| S13 | OI | Compound/Analyte Identification Procedures | | | | | |
| | | 1) Are the procedures for compound/analyte identification documented? | X | | | | |
| S14 | OI | Demonstration of Analyst Competency (DOC) | | | | | |
| | | 1) Was DOC conducted consistent with NELAC Chapter 5 – Appendix C? | X | | | | |
| | | 2) Is documentation of the analyst's competency up-to-date and on file? | X | | | | |
| S15 | OI | Verification/Validation Documentation for Methods (NELAC Chapter 5) | | | | | |
| | | 1) Are all the methods used to generate the data documented, verified, and validated, where applicable? | X | | | | |
| S16 | OI | Laboratory Standard Operating Procedures (SOPs): | | | | | |
| | | 1) Are laboratory SOPs current and on file for each method performed? | X | | | | |

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable.

4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Data Package Signature Page – RG-366/TRRP-13

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC Chapter 5,
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) The amount of analyte measured in the duplicate,
 - b) The calculated RPD, and
 - c) The laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
- R10 Other problems or anomalies.

The Exception Report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory is not accredited under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information or data affecting the quality of the data has been knowingly withheld.

This laboratory was last inspected by TCEQ on February 23-26, 2021. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Name: John DuPont
Official Title: General Manager


Signature

07/30/21
Date

Name: Dr. Derhsing Luu
Official Title: Technical Director

CLIENT: Golder
Project: 1H21 Coleta Creek
Lab Order: 2106204

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

- Method SW6020B - Metals Analysis
 - Method SW7470A - Mercury Analysis
 - Method E300 - Anions Analysis
 - Method M2540C - TDS Analysis
 - Sub-contract - Radium-228 and Radium-226 analyses by methods E904 and SM 7500 Ra B M.
- Analyzed at Pace Analytical.

Exception Report R1-01

The samples were received and log-in performed on 6/26/21. A total of 7 samples were received. The samples arrived in good condition and were properly packaged.

Exception Report R7-03

For Anions analysis performed on 7/1/21 the matrix spikes and matrix spike duplicate recoveries (2106204-01MS/MSD & 2106204-02 MS/MSD) were slightly below control limits for Sulfate. These are flagged accordingly in the QC summary report. The samples selected for the matrix spikes and matrix spike duplicates (2106204-01MS/MSD & 2106204-02 MS/MSD) were from this work order. The LCS was within control limits for this analyte. No further corrective actions were taken.

For Metals analysis performed on 6/30/21 the matrix spike and matrix spike duplicate recoveries were below control limits for Boron and/or Lithium. These are flagged accordingly. The sample selected for the matrix spike and matrix spike duplicate was not from this work order. The LCS was within control limits for these analytes. No further corrective actions were taken.

Exception Report S9-01

For Metals analysis performed on 6/30/21 the PDS recovery was slightly below control limits for Lithium. This is flagged accordingly in the QC summary report. The serial dilution was within control limits for this analyte. No further corrective actions were taken.

CLIENT: Golder
Project: 1H21 Coleta Creek
Lab Order: 2106204

Work Order Sample Summary

| Lab Smp ID | Client Sample ID | Tag Number | Date Collected | Date Recved |
|-------------------|-------------------------|-------------------|-----------------------|--------------------|
| 2106204-01 | MW-8 | | 06/25/21 09:30 AM | 6/26/2021 |
| 2106204-02 | MW-6 | | 06/25/21 10:55 AM | 6/26/2021 |
| 2106204-03 | MW-11 | | 06/25/21 12:00 PM | 6/26/2021 |
| 2106204-04 | MW-101 | | 06/25/21 12:10 PM | 6/26/2021 |
| 2106204-05 | MW-9 | | 06/25/21 01:00 PM | 6/26/2021 |
| 2106204-06 | MW-10 | | 06/25/21 01:50 PM | 6/26/2021 |
| 2106204-07 | MW-5 | | 06/25/21 03:00 PM | 6/26/2021 |

Lab Order: 2106204
 Client: Golder
 Project: 1H21 Coletto Creek

PREP DATES REPORT

| Sample ID | Client Sample ID | Collection Date | Matrix | Test Number | Test Name | Prep Date | Batch ID |
|-------------|------------------|-------------------|---------|-------------|-------------------------|-------------------|----------|
| 2106204-01A | MW-8 | 06/25/21 09:30 AM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 06/29/21 09:15 AM | 101062 |
| | MW-8 | 06/25/21 09:30 AM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 06/29/21 09:15 AM | 101062 |
| | MW-8 | 06/25/21 09:30 AM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 06/29/21 09:15 AM | 101062 |
| | MW-8 | 06/25/21 09:30 AM | Aqueous | SW7470A | Mercury Aq Prep | 06/29/21 11:08 AM | 101070 |
| 2106204-01B | MW-8 | 06/25/21 09:30 AM | Aqueous | E300 | Anion Preparation | 07/01/21 10:49 AM | 101094 |
| | MW-8 | 06/25/21 09:30 AM | Aqueous | E300 | Anion Preparation | 07/01/21 10:49 AM | 101094 |
| | MW-8 | 06/25/21 09:30 AM | Aqueous | M2540C | TDS Preparation | 06/28/21 11:30 AM | 101038 |
| 2106204-02A | MW-6 | 06/25/21 10:55 AM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 06/29/21 09:15 AM | 101062 |
| | MW-6 | 06/25/21 10:55 AM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 06/29/21 09:15 AM | 101062 |
| | MW-6 | 06/25/21 10:55 AM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 06/29/21 09:15 AM | 101062 |
| | MW-6 | 06/25/21 10:55 AM | Aqueous | SW7470A | Mercury Aq Prep | 06/29/21 11:08 AM | 101070 |
| 2106204-02B | MW-6 | 06/25/21 10:55 AM | Aqueous | E300 | Anion Preparation | 07/01/21 10:49 AM | 101094 |
| | MW-6 | 06/25/21 10:55 AM | Aqueous | E300 | Anion Preparation | 07/01/21 10:49 AM | 101094 |
| | MW-6 | 06/25/21 10:55 AM | Aqueous | M2540C | TDS Preparation | 06/28/21 11:30 AM | 101038 |
| 2106204-03A | MW-11 | 06/25/21 12:00 PM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 06/29/21 09:15 AM | 101062 |
| | MW-11 | 06/25/21 12:00 PM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 06/29/21 09:15 AM | 101062 |
| | MW-11 | 06/25/21 12:00 PM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 06/29/21 09:15 AM | 101062 |
| | MW-11 | 06/25/21 12:00 PM | Aqueous | SW7470A | Mercury Aq Prep | 06/29/21 11:08 AM | 101070 |
| 2106204-03B | MW-11 | 06/25/21 12:00 PM | Aqueous | E300 | Anion Preparation | 07/01/21 10:49 AM | 101094 |
| | MW-11 | 06/25/21 12:00 PM | Aqueous | E300 | Anion Preparation | 07/01/21 10:49 AM | 101094 |
| | MW-11 | 06/25/21 12:00 PM | Aqueous | M2540C | TDS Preparation | 06/28/21 11:30 AM | 101038 |
| 2106204-04A | MW-101 | 06/25/21 12:10 PM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 06/29/21 09:15 AM | 101062 |
| | MW-101 | 06/25/21 12:10 PM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 06/29/21 09:15 AM | 101062 |
| | MW-101 | 06/25/21 12:10 PM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 06/29/21 09:15 AM | 101062 |
| | MW-101 | 06/25/21 12:10 PM | Aqueous | SW7470A | Mercury Aq Prep | 06/29/21 11:08 AM | 101070 |
| 2106204-04B | MW-101 | 06/25/21 12:10 PM | Aqueous | E300 | Anion Preparation | 07/01/21 10:49 AM | 101094 |
| | MW-101 | 06/25/21 12:10 PM | Aqueous | E300 | Anion Preparation | 07/01/21 10:49 AM | 101094 |
| | MW-101 | 06/25/21 12:10 PM | Aqueous | M2540C | TDS Preparation | 06/28/21 11:30 AM | 101038 |

Lab Order: 2106204
 Client: Golder
 Project: 1H21 Coletto Creek

PREP DATES REPORT

| Sample ID | Client Sample ID | Collection Date | Matrix | Test Number | Test Name | Prep Date | Batch ID |
|-------------|------------------|-------------------|---------|-------------|-------------------------|-------------------|----------|
| 2106204-05A | MW-9 | 06/25/21 01:00 PM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 06/29/21 09:15 AM | 101062 |
| | MW-9 | 06/25/21 01:00 PM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 06/29/21 09:15 AM | 101062 |
| | MW-9 | 06/25/21 01:00 PM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 06/29/21 09:15 AM | 101062 |
| | MW-9 | 06/25/21 01:00 PM | Aqueous | SW7470A | Mercury Aq Prep | 06/29/21 11:08 AM | 101070 |
| 2106204-05B | MW-9 | 06/25/21 01:00 PM | Aqueous | E300 | Anion Preparation | 07/01/21 10:49 AM | 101094 |
| | MW-9 | 06/25/21 01:00 PM | Aqueous | E300 | Anion Preparation | 07/01/21 10:49 AM | 101094 |
| | MW-9 | 06/25/21 01:00 PM | Aqueous | M2540C | TDS Preparation | 06/28/21 11:30 AM | 101038 |
| 2106204-06A | MW-10 | 06/25/21 01:50 PM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 06/29/21 09:15 AM | 101062 |
| | MW-10 | 06/25/21 01:50 PM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 06/29/21 09:15 AM | 101062 |
| | MW-10 | 06/25/21 01:50 PM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 06/29/21 09:15 AM | 101062 |
| | MW-10 | 06/25/21 01:50 PM | Aqueous | SW7470A | Mercury Aq Prep | 06/29/21 11:08 AM | 101070 |
| 2106204-06B | MW-10 | 06/25/21 01:50 PM | Aqueous | E300 | Anion Preparation | 07/01/21 10:49 AM | 101094 |
| | MW-10 | 06/25/21 01:50 PM | Aqueous | E300 | Anion Preparation | 07/01/21 10:49 AM | 101094 |
| | MW-10 | 06/25/21 01:50 PM | Aqueous | M2540C | TDS Preparation | 06/28/21 11:30 AM | 101038 |
| 2106204-07A | MW-5 | 06/25/21 03:00 PM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 06/29/21 09:15 AM | 101062 |
| | MW-5 | 06/25/21 03:00 PM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 06/29/21 09:15 AM | 101062 |
| | MW-5 | 06/25/21 03:00 PM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 06/29/21 09:15 AM | 101062 |
| | MW-5 | 06/25/21 03:00 PM | Aqueous | SW7470A | Mercury Aq Prep | 06/29/21 11:08 AM | 101070 |
| 2106204-07B | MW-5 | 06/25/21 03:00 PM | Aqueous | E300 | Anion Preparation | 07/01/21 10:49 AM | 101094 |
| | MW-5 | 06/25/21 03:00 PM | Aqueous | E300 | Anion Preparation | 07/01/21 10:49 AM | 101094 |
| | MW-5 | 06/25/21 03:00 PM | Aqueous | M2540C | TDS Preparation | 06/28/21 11:30 AM | 101038 |

Lab Order: 2106204
 Client: Golder
 Project: 1H21 Coleta Creek

ANALYTICAL DATES REPORT

| Sample ID | Client Sample ID | Matrix | Test Number | Test Name | Batch ID | Dilution | Analysis Date | Run ID |
|-------------|------------------|---------|-------------|------------------------------|----------|----------|-------------------|-----------------------|
| 2106204-01A | MW-8 | Aqueous | SW7470A | Mercury Total: Aqueous | 101070 | 1 | 07/01/21 10:56 AM | CETAC2_HG_210701 B |
| | MW-8 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 101062 | 5 | 06/30/21 02:36 PM | ICP-MS4_210630A |
| | MW-8 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 101062 | 1 | 06/30/21 03:28 PM | ICP-MS4_210630A |
| | MW-8 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 101062 | 1 | 06/30/21 01:13 PM | ICP-MS5_210630A |
| 2106204-01B | MW-8 | Aqueous | E300 | Anions by IC method - Water | 101094 | 10 | 07/01/21 04:47 PM | IC2_210701B |
| | MW-8 | Aqueous | E300 | Anions by IC method - Water | 101094 | 1 | 07/01/21 11:27 PM | IC2_210701B |
| | MW-8 | Aqueous | M2540C | Total Dissolved Solids | 101038 | 1 | 06/28/21 04:30 PM | WC_210628C |
| 2106204-02A | MW-6 | Aqueous | SW7470A | Mercury Total: Aqueous | 101070 | 1 | 07/01/21 10:59 AM | CETAC2_HG_210701 B |
| | MW-6 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 101062 | 5 | 06/30/21 02:38 PM | ICP-MS4_210630A |
| | MW-6 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 101062 | 1 | 06/30/21 03:30 PM | ICP-MS4_210630A |
| | MW-6 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 101062 | 1 | 06/30/21 01:16 PM | ICP-MS5_210630A |
| 2106204-02B | MW-6 | Aqueous | E300 | Anions by IC method - Water | 101094 | 10 | 07/01/21 05:35 PM | IC2_210701B |
| | MW-6 | Aqueous | E300 | Anions by IC method - Water | 101094 | 1 | 07/01/21 11:43 PM | IC2_210701B |
| | MW-6 | Aqueous | M2540C | Total Dissolved Solids | 101038 | 1 | 06/28/21 04:30 PM | WC_210628C |
| 2106204-03A | MW-11 | Aqueous | SW7470A | Mercury Total: Aqueous | 101070 | 1 | 07/01/21 11:10 AM | CETAC2_HG_210701 B |
| | MW-11 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 101062 | 5 | 06/30/21 02:57 PM | ICP-MS4_210630A |
| | MW-11 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 101062 | 1 | 06/30/21 03:32 PM | ICP-MS4_210630A |
| | MW-11 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 101062 | 1 | 06/30/21 01:18 PM | ICP-MS5_210630A |
| 2106204-03B | MW-11 | Aqueous | E300 | Anions by IC method - Water | 101094 | 10 | 07/01/21 06:23 PM | IC2_210701B |
| | MW-11 | Aqueous | E300 | Anions by IC method - Water | 101094 | 1 | 07/01/21 11:59 PM | IC2_210701B |
| | MW-11 | Aqueous | M2540C | Total Dissolved Solids | 101038 | 1 | 06/28/21 04:30 PM | WC_210628C |
| 2106204-04A | MW-101 | Aqueous | SW7470A | Mercury Total: Aqueous | 101070 | 1 | 07/01/21 11:12 AM | CETAC2_HG_210701 B |
| | MW-101 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 101062 | 1 | 06/30/21 01:21 PM | ICP-MS5_210630A |
| | MW-101 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 101062 | 5 | 06/30/21 02:59 PM | ICP-MS4_210630A |
| | MW-101 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 101062 | 1 | 06/30/21 03:34 PM | ICP-MS4_210630A |
| 2106204-04B | MW-101 | Aqueous | E300 | Anions by IC method - Water | 101094 | 1 | 07/02/21 01:35 AM | IC2_210701B |

Lab Order: 2106204
 Client: Golder
 Project: 1H21 Coletto Creek

ANALYTICAL DATES REPORT

| Sample ID | Client Sample ID | Matrix | Test Number | Test Name | Batch ID | Dilution | Analysis Date | Run ID |
|-------------|------------------|---------|-------------|------------------------------|----------|----------|-------------------|-------------------|
| 2106204-04B | MW-101 | Aqueous | E300 | Anions by IC method - Water | 101094 | 10 | 07/01/21 06:39 PM | IC2_210701B |
| | MW-101 | Aqueous | M2540C | Total Dissolved Solids | 101038 | 1 | 06/28/21 04:30 PM | WC_210628C |
| 2106204-05A | MW-9 | Aqueous | SW7470A | Mercury Total: Aqueous | 101070 | 1 | 07/01/21 11:14 AM | CETAC2_HG_210701B |
| | MW-9 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 101062 | 5 | 06/30/21 03:01 PM | ICP-MS4_210630A |
| | MW-9 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 101062 | 1 | 06/30/21 03:36 PM | ICP-MS4_210630A |
| | MW-9 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 101062 | 1 | 06/30/21 02:16 PM | ICP-MS5_210630A |
| 2106204-05B | MW-9 | Aqueous | E300 | Anions by IC method - Water | 101094 | 10 | 07/01/21 06:55 PM | IC2_210701B |
| | MW-9 | Aqueous | E300 | Anions by IC method - Water | 101094 | 1 | 07/02/21 01:51 AM | IC2_210701B |
| | MW-9 | Aqueous | M2540C | Total Dissolved Solids | 101038 | 1 | 06/28/21 04:30 PM | WC_210628C |
| 2106204-06A | MW-10 | Aqueous | SW7470A | Mercury Total: Aqueous | 101070 | 1 | 07/01/21 11:21 AM | CETAC2_HG_210701B |
| | MW-10 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 101062 | 1 | 06/30/21 02:19 PM | ICP-MS5_210630A |
| | MW-10 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 101062 | 5 | 06/30/21 03:03 PM | ICP-MS4_210630A |
| | MW-10 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 101062 | 1 | 06/30/21 03:38 PM | ICP-MS4_210630A |
| 2106204-06B | MW-10 | Aqueous | E300 | Anions by IC method - Water | 101094 | 10 | 07/01/21 07:11 PM | IC2_210701B |
| | MW-10 | Aqueous | E300 | Anions by IC method - Water | 101094 | 1 | 07/02/21 02:07 AM | IC2_210701B |
| | MW-10 | Aqueous | M2540C | Total Dissolved Solids | 101038 | 1 | 06/28/21 04:30 PM | WC_210628C |
| 2106204-07A | MW-5 | Aqueous | SW7470A | Mercury Total: Aqueous | 101070 | 1 | 07/01/21 11:24 AM | CETAC2_HG_210701B |
| | MW-5 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 101062 | 5 | 06/30/21 03:05 PM | ICP-MS4_210630A |
| | MW-5 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 101062 | 1 | 06/30/21 03:40 PM | ICP-MS4_210630A |
| | MW-5 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 101062 | 1 | 06/30/21 02:21 PM | ICP-MS5_210630A |
| 2106204-07B | MW-5 | Aqueous | E300 | Anions by IC method - Water | 101094 | 10 | 07/01/21 07:27 PM | IC2_210701B |
| | MW-5 | Aqueous | E300 | Anions by IC method - Water | 101094 | 1 | 07/02/21 02:23 AM | IC2_210701B |
| | MW-5 | Aqueous | M2540C | Total Dissolved Solids | 101038 | 1 | 06/28/21 04:30 PM | WC_210628C |

DHL Analytical, Inc.

Date: 30-Jul-21

CLIENT: Golder
Project: 1H21 Coleta Creek
Project No: 19122262-B2021
Lab Order: 2106204

Client Sample ID: MW-8
Lab ID: 2106204-01
Collection Date: 06/25/21 09:30 AM
Matrix: AQUEOUS

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|--|------------|----------------|----------|------|---------------------|----|-------------------|
| TRACE METALS: ICP-MS - WATER | | SW6020B | | | Analyst: SP | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 06/30/21 01:13 PM |
| Arsenic | 0.0104 | 0.00200 | 0.00500 | | mg/L | 1 | 06/30/21 01:13 PM |
| Barium | 0.0806 | 0.00300 | 0.0100 | | mg/L | 1 | 06/30/21 01:13 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/30/21 03:28 PM |
| Boron | 0.863 | 0.0500 | 0.150 | | mg/L | 5 | 06/30/21 02:36 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/30/21 01:13 PM |
| Calcium | 80.1 | 0.500 | 1.50 | | mg/L | 5 | 06/30/21 02:36 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/30/21 01:13 PM |
| Cobalt | 0.0130 | 0.00300 | 0.00500 | | mg/L | 1 | 06/30/21 01:13 PM |
| Lead | 0.000761 | 0.000300 | 0.00100 | J | mg/L | 1 | 06/30/21 01:13 PM |
| Lithium | 0.0105 | 0.00500 | 0.0100 | | mg/L | 1 | 06/30/21 03:28 PM |
| Molybdenum | 0.0118 | 0.00200 | 0.00500 | | mg/L | 1 | 06/30/21 01:13 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/30/21 01:13 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 06/30/21 01:13 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | Analyst: JVR | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 07/01/21 10:56 AM |
| ANIONS BY IC METHOD - WATER | | E300 | | | Analyst: BM | | |
| Chloride | 53.2 | 3.00 | 10.0 | | mg/L | 70 | 07/01/21 04:47 PM |
| Fluoride | 0.673 | 0.100 | 0.400 | | mg/L | 1 | 07/01/21 11:27 PM |
| Sulfate | 58.8 | 1.00 | 3.00 | | mg/L | 1 | 07/01/21 11:27 PM |
| TOTAL DISSOLVED SOLIDS | | M2540C | | | Analyst: JS | | |
| Total Dissolved Solids (Residue, Filterable) | 489 | 10.0 | 10.0 | | mg/L | 1 | 06/28/21 04:30 PM |

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 30-Jul-21

CLIENT: Golder
Project: 1H21 Coleta Creek
Project No: 19122262-B2021
Lab Order: 2106204

Client Sample ID: MW-6
Lab ID: 2106204-02
Collection Date: 06/25/21 10:55 AM
Matrix: AQUEOUS

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|--|------------|----------------|----------|---------------------|-------|----|-------------------|
| TRACE METALS: ICP-MS - WATER | | SW6020B | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 06/30/21 01:16 PM |
| Arsenic | 0.00778 | 0.00200 | 0.00500 | | mg/L | 1 | 06/30/21 01:16 PM |
| Barium | 0.0860 | 0.00300 | 0.0100 | | mg/L | 1 | 06/30/21 01:16 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/30/21 03:30 PM |
| Boron | 1.75 | 0.0500 | 0.150 | | mg/L | 5 | 06/30/21 02:38 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/30/21 01:16 PM |
| Calcium | 79.1 | 0.500 | 1.50 | | mg/L | 5 | 06/30/21 02:38 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/30/21 01:16 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 06/30/21 01:16 PM |
| Lead | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/30/21 01:16 PM |
| Lithium | 0.0101 | 0.00500 | 0.0100 | | mg/L | 1 | 06/30/21 03:30 PM |
| Molybdenum | 0.00823 | 0.00200 | 0.00500 | | mg/L | 1 | 06/30/21 01:16 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/30/21 01:16 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 06/30/21 01:16 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: JVR | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 07/01/21 10:59 AM |
| ANIONS BY IC METHOD - WATER | | E300 | | Analyst: BM | | | |
| Chloride | 72.7 | 3.00 | 10.0 | | mg/L | 70 | 07/01/21 05:35 PM |
| Fluoride | 0.542 | 0.100 | 0.400 | | mg/L | 1 | 07/01/21 11:43 PM |
| Sulfate | 89.2 | 1.00 | 3.00 | | mg/L | 1 | 07/01/21 11:43 PM |
| TOTAL DISSOLVED SOLIDS | | M2540C | | Analyst: JS | | | |
| Total Dissolved Solids (Residue, Filterable) | 503 | 10.0 | 10.0 | | mg/L | 1 | 06/28/21 04:30 PM |

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 30-Jul-21

CLIENT: Golder
Project: 1H21 Coleta Creek
Project No: 19122262-B2021
Lab Order: 2106204

Client Sample ID: MW-11
Lab ID: 2106204-03
Collection Date: 06/25/21 12:00 PM
Matrix: AQUEOUS

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|--|------------|----------------|----------|---------------------|-------|----|-------------------|
| TRACE METALS: ICP-MS - WATER | | SW6020B | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 06/30/21 01:18 PM |
| Arsenic | 0.0136 | 0.00200 | 0.00500 | | mg/L | 1 | 06/30/21 01:18 PM |
| Barium | 0.0900 | 0.00300 | 0.0100 | | mg/L | 1 | 06/30/21 01:18 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/30/21 03:32 PM |
| Boron | 0.925 | 0.0500 | 0.150 | | mg/L | 5 | 06/30/21 02:57 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/30/21 01:18 PM |
| Calcium | 59.1 | 0.500 | 1.50 | | mg/L | 5 | 06/30/21 02:57 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/30/21 01:18 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 06/30/21 01:18 PM |
| Lead | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/30/21 01:18 PM |
| Lithium | 0.0162 | 0.00500 | 0.0100 | | mg/L | 1 | 06/30/21 03:32 PM |
| Molybdenum | 0.0190 | 0.00200 | 0.00500 | | mg/L | 1 | 06/30/21 01:18 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/30/21 01:18 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 06/30/21 01:18 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: JVR | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 07/01/21 11:10 AM |
| ANIONS BY IC METHOD - WATER | | E300 | | Analyst: BM | | | |
| Chloride | 74.6 | 3.00 | 10.0 | | mg/L | 70 | 07/01/21 06:23 PM |
| Fluoride | 0.876 | 0.100 | 0.400 | | mg/L | 1 | 07/01/21 11:59 PM |
| Sulfate | 55.9 | 1.00 | 3.00 | | mg/L | 1 | 07/01/21 11:59 PM |
| TOTAL DISSOLVED SOLIDS | | M2540C | | Analyst: JS | | | |
| Total Dissolved Solids (Residue, Filterable) | 400 | 10.0 | 10.0 | | mg/L | 1 | 06/28/21 04:30 PM |

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 30-Jul-21

CLIENT: Golder
Project: 1H21 Coleta Creek
Project No: 19122262-B2021
Lab Order: 2106204

Client Sample ID: MW-101
Lab ID: 2106204-04
Collection Date: 06/25/21 12:10 PM
Matrix: AQUEOUS

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|--|------------|----------------|----------|---------------------|-------|----|-------------------|
| TRACE METALS: ICP-MS - WATER | | SW6020B | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 06/30/21 01:21 PM |
| Arsenic | 0.0134 | 0.00200 | 0.00500 | | mg/L | 1 | 06/30/21 01:21 PM |
| Barium | 0.0905 | 0.00300 | 0.0100 | | mg/L | 1 | 06/30/21 01:21 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/30/21 03:34 PM |
| Boron | 0.980 | 0.0500 | 0.150 | | mg/L | 5 | 06/30/21 02:59 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/30/21 01:21 PM |
| Calcium | 59.3 | 0.500 | 1.50 | | mg/L | 5 | 06/30/21 02:59 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/30/21 01:21 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 06/30/21 01:21 PM |
| Lead | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/30/21 01:21 PM |
| Lithium | 0.0148 | 0.00500 | 0.0100 | | mg/L | 1 | 06/30/21 03:34 PM |
| Molybdenum | 0.0194 | 0.00200 | 0.00500 | | mg/L | 1 | 06/30/21 01:21 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/30/21 01:21 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 06/30/21 01:21 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: JVR | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 07/01/21 11:12 AM |
| ANIONS BY IC METHOD - WATER | | E300 | | Analyst: BM | | | |
| Chloride | 74.8 | 3.00 | 10.0 | | mg/L | 70 | 07/01/21 06:39 PM |
| Fluoride | 0.865 | 0.100 | 0.400 | | mg/L | 1 | 07/02/21 01:35 AM |
| Sulfate | 56.2 | 1.00 | 3.00 | | mg/L | 1 | 07/02/21 01:35 AM |
| TOTAL DISSOLVED SOLIDS | | M2540C | | Analyst: JS | | | |
| Total Dissolved Solids (Residue, Filterable) | 397 | 10.0 | 10.0 | | mg/L | 1 | 06/28/21 04:30 PM |

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 30-Jul-21

CLIENT: Golder
Project: 1H21 Coleta Creek
Project No: 19122262-B2021
Lab Order: 2106204

Client Sample ID: MW-9
Lab ID: 2106204-05
Collection Date: 06/25/21 01:00 PM
Matrix: AQUEOUS

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|--|------------|----------------|----------|---------------------|-------|----|-------------------|
| TRACE METALS: ICP-MS - WATER | | SW6020B | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 06/30/21 02:16 PM |
| Arsenic | 0.0151 | 0.00200 | 0.00500 | | mg/L | 1 | 06/30/21 02:16 PM |
| Barium | 0.163 | 0.00300 | 0.0100 | | mg/L | 1 | 06/30/21 02:16 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/30/21 03:36 PM |
| Boron | 0.882 | 0.0500 | 0.150 | | mg/L | 5 | 06/30/21 03:01 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/30/21 02:16 PM |
| Calcium | 83.6 | 0.500 | 1.50 | | mg/L | 5 | 06/30/21 03:01 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/30/21 02:16 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 06/30/21 02:16 PM |
| Lead | 0.000408 | 0.000300 | 0.00100 | J | mg/L | 1 | 06/30/21 02:16 PM |
| Lithium | 0.0103 | 0.00500 | 0.0100 | | mg/L | 1 | 06/30/21 03:36 PM |
| Molybdenum | 0.0199 | 0.00200 | 0.00500 | | mg/L | 1 | 06/30/21 02:16 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/30/21 02:16 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 06/30/21 02:16 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: JVR | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 07/01/21 11:14 AM |
| ANIONS BY IC METHOD - WATER | | E300 | | Analyst: BM | | | |
| Chloride | 77.6 | 3.00 | 10.0 | | mg/L | 10 | 07/01/21 06:55 PM |
| Fluoride | 0.907 | 0.100 | 0.400 | | mg/L | 1 | 07/02/21 01:51 AM |
| Sulfate | 100 | 1.00 | 3.00 | | mg/L | 1 | 07/02/21 01:51 AM |
| TOTAL DISSOLVED SOLIDS | | M2540C | | Analyst: JS | | | |
| Total Dissolved Solids (Residue, Filterable) | 508 | 10.0 | 10.0 | | mg/L | 1 | 06/28/21 04:30 PM |

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 30-Jul-21

CLIENT: Golder
Project: 1H21 Coleta Creek
Project No: 19122262-B2021
Lab Order: 2106204

Client Sample ID: MW-10
Lab ID: 2106204-06
Collection Date: 06/25/21 01:50 PM
Matrix: AQUEOUS

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|--|------------|----------------|----------|---------------------|-------|----|-------------------|
| TRACE METALS: ICP-MS - WATER | | SW6020B | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 06/30/21 02:19 PM |
| Arsenic | 0.00942 | 0.00200 | 0.00500 | | mg/L | 1 | 06/30/21 02:19 PM |
| Barium | 0.0792 | 0.00300 | 0.0100 | | mg/L | 1 | 06/30/21 02:19 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/30/21 03:38 PM |
| Boron | 1.97 | 0.0500 | 0.150 | | mg/L | 5 | 06/30/21 03:03 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/30/21 02:19 PM |
| Calcium | 107 | 0.500 | 1.50 | | mg/L | 5 | 06/30/21 03:03 PM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/30/21 02:19 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 06/30/21 02:19 PM |
| Lead | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/30/21 02:19 PM |
| Lithium | 0.0180 | 0.00500 | 0.0100 | | mg/L | 1 | 06/30/21 03:38 PM |
| Molybdenum | 0.0181 | 0.00200 | 0.00500 | | mg/L | 1 | 06/30/21 02:19 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/30/21 02:19 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 06/30/21 02:19 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: JVR | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 07/01/21 11:21 AM |
| ANIONS BY IC METHOD - WATER | | E300 | | Analyst: BM | | | |
| Chloride | 154 | 3.00 | 10.0 | | mg/L | 70 | 07/01/21 07:11 PM |
| Fluoride | 0.717 | 0.100 | 0.400 | | mg/L | 1 | 07/02/21 02:07 AM |
| Sulfate | 141 | 1.00 | 3.00 | | mg/L | 1 | 07/02/21 02:07 AM |
| TOTAL DISSOLVED SOLIDS | | M2540C | | Analyst: JS | | | |
| Total Dissolved Solids (Residue, Filterable) | 806 | 10.0 | 10.0 | | mg/L | 1 | 06/28/21 04:30 PM |

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 30-Jul-21

CLIENT: Golder
Project: 1H21 Coleta Creek
Project No: 19122262-B2021
Lab Order: 2106204

Client Sample ID: MW-5
Lab ID: 2106204-07
Collection Date: 06/25/21 03:00 PM
Matrix: AQUEOUS

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|--|------------|----------------|----------|---------------------|-------|----|-------------------|
| TRACE METALS: ICP-MS - WATER | | SW6020B | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 06/30/21 02:21 PM |
| Arsenic | 0.00918 | 0.00200 | 0.00500 | | mg/L | 1 | 06/30/21 02:21 PM |
| Barium | 0.0652 | 0.00300 | 0.0100 | | mg/L | 1 | 06/30/21 02:21 PM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/30/21 03:40 PM |
| Boron | 0.181 | 0.0500 | 0.150 | | mg/L | 5 | 06/30/21 03:05 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/30/21 02:21 PM |
| Calcium | 120 | 0.500 | 1.50 | | mg/L | 5 | 06/30/21 03:05 PM |
| Chromium | 0.00913 | 0.00200 | 0.00500 | | mg/L | 1 | 06/30/21 02:21 PM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 06/30/21 02:21 PM |
| Lead | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 06/30/21 02:21 PM |
| Lithium | 0.0189 | 0.00500 | 0.0100 | | mg/L | 1 | 06/30/21 03:40 PM |
| Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/30/21 02:21 PM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 06/30/21 02:21 PM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 06/30/21 02:21 PM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: JVR | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 07/01/21 11:24 AM |
| ANIONS BY IC METHOD - WATER | | E300 | | Analyst: BM | | | |
| Chloride | 135 | 3.00 | 10.0 | | mg/L | 10 | 07/01/21 07:27 PM |
| Fluoride | 0.661 | 0.100 | 0.400 | | mg/L | 1 | 07/02/21 02:23 AM |
| Sulfate | 173 | 10.0 | 30.0 | | mg/L | 10 | 07/01/21 07:27 PM |
| TOTAL DISSOLVED SOLIDS | | M2540C | | Analyst: JS | | | |
| Total Dissolved Solids (Residue, Filterable) | 813 | 10.0 | 10.0 | | mg/L | 1 | 06/28/21 04:30 PM |

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

CLIENT: Golder
Work Order: 2106204
Project: 1H21 Coleta Creek

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_210511A

| Sample ID: DCS-100518 | Batch ID: 100518 | TestNo: SW7470A | Units: mg/L | | | | | | | |
|------------------------------|----------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: DCS | Run ID: CETAC2_HG_210511A | Analysis Date: 5/11/2021 1:32:27 PM | Prep Date: 5/10/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | 0.000165 | 0.000200 | 0.000200 | 0 | 82.5 | 82 | 119 | 0 | 0 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL

DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAP certified

CLIENT: Golder
Work Order: 2106204
Project: 1H21 Coleta Creek

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_210701B

The QC data in batch 101070 applies to the following samples: 2106204-01A, 2106204-02A, 2106204-03A, 2106204-04A, 2106204-05A, 2106204-06A, 2106204-07A

| | | | | | | | | | | |
|-----------------------------|----------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: MB-101070 | Batch ID: 101070 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: MBLK | Run ID: CETAC2_HG_210701B | Analysis Date: 7/1/2021 10:38:41 AM | Prep Date: 6/29/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | <0.0000800 | 0.000200 | | | | | | | | |

| | | | | | | | | | | |
|------------------------------|----------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: LCS-101070 | Batch ID: 101070 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: LCS | Run ID: CETAC2_HG_210701B | Analysis Date: 7/1/2021 10:40:57 AM | Prep Date: 6/29/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | 0.00205 | 0.000200 | 0.00200 | 0 | 103 | 85 | 115 | | | |

| | | | | | | | | | | |
|-------------------------------|----------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: LCSD-101070 | Batch ID: 101070 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: LCSD | Run ID: CETAC2_HG_210701B | Analysis Date: 7/1/2021 10:43:13 AM | Prep Date: 6/29/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | 0.00201 | 0.000200 | 0.00200 | 0 | 101 | 85 | 115 | 1.97 | 15 | |

| | | | | | | | | | | |
|----------------------------------|----------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: 2106204-02A MS | Batch ID: 101070 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: MS | Run ID: CETAC2_HG_210701B | Analysis Date: 7/1/2021 11:01:21 AM | Prep Date: 6/29/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | 0.00194 | 0.000200 | 0.00200 | 0 | 97.0 | 80 | 120 | | | |

| | | | | | | | | | | |
|-----------------------------------|----------------------------------|--|-----------------------------|---------|------|----------|-----------|-------|----------|------|
| Sample ID: 2106204-02A MSD | Batch ID: 101070 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: MSD | Run ID: CETAC2_HG_210701B | Analysis Date: 7/1/2021 11:03:36 AM | Prep Date: 6/29/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | 0.00195 | 0.000200 | 0.00200 | 0 | 97.5 | 80 | 120 | 0.514 | 15 | |

| | | | | | | | | | | |
|----------------------------------|----------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: 2106204-02A SD | Batch ID: 101070 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: SD | Run ID: CETAC2_HG_210701B | Analysis Date: 7/1/2021 11:05:52 AM | Prep Date: 6/29/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | <0.000400 | 0.00100 | 0 | 0 | | | | 0 | 10 | |

| | | | | | | | | | | |
|-----------------------------------|----------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: 2106204-02A PDS | Batch ID: 101070 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: PDS | Run ID: CETAC2_HG_210701B | Analysis Date: 7/1/2021 11:08:08 AM | Prep Date: 6/29/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | 0.00251 | 0.000200 | 0.00250 | 0 | 100 | 85 | 115 | | | |

- | | |
|--|---|
| <p>Qualifiers:</p> <ul style="list-style-type: none"> B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | <ul style="list-style-type: none"> DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAP certified |
|--|---|

CLIENT: Golder
Work Order: 2106204
Project: 1H21 Coleta Creek

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_210701B

| Sample ID: ICV-210701 | Batch ID: R116024 | TestNo: SW7470A | Units: mg/L | | | | | | | |
|------------------------------|----------------------------------|--|--------------------|---------|------|----------|-----------|------|----------|------|
| SampType: ICV | Run ID: CETAC2_HG_210701B | Analysis Date: 7/1/2021 10:34:07 AM | Prep Date: | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|---------|---------|----------|---------|---|------|----|-----|--|--|--|
| Mercury | 0.00390 | 0.000200 | 0.00400 | 0 | 97.5 | 90 | 110 | | | |
|---------|---------|----------|---------|---|------|----|-----|--|--|--|

| Sample ID: CCV1-210701 | Batch ID: R116024 | TestNo: SW7470A | Units: mg/L | | | | | | | |
|-------------------------------|----------------------------------|--|--------------------|---------|------|----------|-----------|------|----------|------|
| SampType: CCV | Run ID: CETAC2_HG_210701B | Analysis Date: 7/1/2021 11:17:14 AM | Prep Date: | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|---------|---------|----------|---------|---|------|----|-----|--|--|--|
| Mercury | 0.00193 | 0.000200 | 0.00200 | 0 | 96.5 | 90 | 110 | | | |
|---------|---------|----------|---------|---|------|----|-----|--|--|--|

| Sample ID: CCV2-210701 | Batch ID: R116024 | TestNo: SW7470A | Units: mg/L | | | | | | | |
|-------------------------------|----------------------------------|--|--------------------|---------|------|----------|-----------|------|----------|------|
| SampType: CCV | Run ID: CETAC2_HG_210701B | Analysis Date: 7/1/2021 11:44:33 AM | Prep Date: | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|---------|---------|----------|---------|---|-----|----|-----|--|--|--|
| Mercury | 0.00202 | 0.000200 | 0.00200 | 0 | 101 | 90 | 110 | | | |
|---------|---------|----------|---------|---|-----|----|-----|--|--|--|

| | |
|--|---|
| Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAP certified |
|--|---|

CLIENT: Golder
Work Order: 2106204
Project: 1H21 Coleta Creek

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_210428A

| | | | | | | | | | | |
|-------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: DCS1-100323 | Batch ID: 100323 | TestNo: SW6020B | Units: mg/L | | | | | | | |
| SampType: DCS | Run ID: ICP-MS4_210428A | Analysis Date: 4/28/2021 10:32:00 AM | Prep Date: 4/27/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | |
|-----------|----------|---------|----------|---|-----|----|-----|---|---|
| Beryllium | 0.000512 | 0.00100 | 0.000500 | 0 | 102 | 70 | 130 | 0 | 0 |
|-----------|----------|---------|----------|---|-----|----|-----|---|---|

| | | | | | | | | | | |
|-------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: DCS2-100323 | Batch ID: 100323 | TestNo: SW6020B | Units: mg/L | | | | | | | |
| SampType: DCS2 | Run ID: ICP-MS4_210428A | Analysis Date: 4/28/2021 10:34:00 AM | Prep Date: 4/27/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | |
|---------|-------|-------|-------|---|-----|----|-----|---|---|
| Calcium | 0.302 | 0.300 | 0.300 | 0 | 101 | 70 | 130 | 0 | 0 |
|---------|-------|-------|-------|---|-----|----|-----|---|---|

| | | | | | | | | | | |
|-------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: DCS3-100323 | Batch ID: 100323 | TestNo: SW6020B | Units: mg/L | | | | | | | |
| SampType: DCS3 | Run ID: ICP-MS4_210428A | Analysis Date: 4/28/2021 10:36:00 AM | Prep Date: 4/27/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | |
|---------|---------|--------|---------|---|-----|----|-----|---|---|
| Lithium | 0.00533 | 0.0100 | 0.00500 | 0 | 107 | 70 | 130 | 0 | 0 |
|---------|---------|--------|---------|---|-----|----|-----|---|---|

| | | | | | | | | | | |
|-------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: DCS4-100323 | Batch ID: 100323 | TestNo: SW6020B | Units: mg/L | | | | | | | |
| SampType: DCS4 | Run ID: ICP-MS4_210428A | Analysis Date: 4/28/2021 10:39:00 AM | Prep Date: 4/27/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | |
|-------|--------|--------|--------|---|-----|----|-----|---|---|
| Boron | 0.0310 | 0.0300 | 0.0300 | 0 | 103 | 70 | 130 | 0 | 0 |
|-------|--------|--------|--------|---|-----|----|-----|---|---|

| | |
|--|---|
| Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAP certified |
|--|---|

CLIENT: Golder
Work Order: 2106204
Project: 1H21 Coleta Creek

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_210630A

The QC data in batch 101062 applies to the following samples: 2106204-01A, 2106204-02A, 2106204-03A, 2106204-04A, 2106204-05A, 2106204-06A, 2106204-07A

| | | | |
|-----------------------------|--------------------------------|--|-----------------------------|
| Sample ID: MB-101062 | Batch ID: 101062 | TestNo: SW6020B | Units: mg/L |
| SampType: MBLK | Run ID: ICP-MS4_210630A | Analysis Date: 6/30/2021 2:10:00 PM | Prep Date: 6/29/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|-----------|-----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Beryllium | <0.000300 | 0.00100 | | | | | | | | |
| Boron | <0.0100 | 0.0300 | | | | | | | | |
| Calcium | <0.100 | 0.300 | | | | | | | | |
| Lithium | <0.00500 | 0.0100 | | | | | | | | |

| | | | |
|------------------------------|--------------------------------|--|-----------------------------|
| Sample ID: LCS-101062 | Batch ID: 101062 | TestNo: SW6020B | Units: mg/L |
| SampType: LCS | Run ID: ICP-MS4_210630A | Analysis Date: 6/30/2021 2:12:00 PM | Prep Date: 6/29/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|-----------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Beryllium | 0.204 | 0.00100 | 0.200 | 0 | 102 | 80 | 120 | | | |
| Boron | 0.197 | 0.0300 | 0.200 | 0 | 98.3 | 80 | 120 | | | |
| Calcium | 5.21 | 0.300 | 5.00 | 0 | 104 | 80 | 120 | | | |
| Lithium | 0.204 | 0.0100 | 0.200 | 0 | 102 | 80 | 120 | | | |

| | | | |
|-------------------------------|--------------------------------|--|-----------------------------|
| Sample ID: LCSD-101062 | Batch ID: 101062 | TestNo: SW6020B | Units: mg/L |
| SampType: LCSD | Run ID: ICP-MS4_210630A | Analysis Date: 6/30/2021 2:14:00 PM | Prep Date: 6/29/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|-----------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Beryllium | 0.207 | 0.00100 | 0.200 | 0 | 103 | 80 | 120 | 1.16 | 15 | |
| Boron | 0.205 | 0.0300 | 0.200 | 0 | 103 | 80 | 120 | 4.26 | 15 | |
| Calcium | 5.12 | 0.300 | 5.00 | 0 | 102 | 80 | 120 | 1.75 | 15 | |
| Lithium | 0.208 | 0.0100 | 0.200 | 0 | 104 | 80 | 120 | 1.86 | 15 | |

| | | | |
|----------------------------------|--------------------------------|--|-----------------------------|
| Sample ID: 2106175-03A SD | Batch ID: 101062 | TestNo: SW6020B | Units: mg/L |
| SampType: SD | Run ID: ICP-MS4_210630A | Analysis Date: 6/30/2021 2:55:00 PM | Prep Date: 6/29/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| Boron | 4.68 | 3.00 | 0 | 3.91 | | | | 18.0 | 20 | |
| Calcium | 60.2 | 30.0 | 0 | 60.3 | | | | 0.044 | 20 | |

| | | | |
|-----------------------------------|--------------------------------|--|-----------------------------|
| Sample ID: 2106175-03A PDS | Batch ID: 101062 | TestNo: SW6020B | Units: mg/L |
| SampType: PDS | Run ID: ICP-MS4_210630A | Analysis Date: 6/30/2021 3:08:00 PM | Prep Date: 6/29/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Boron | 7.47 | 0.600 | 4.00 | 3.91 | 89.1 | 75 | 125 | | | |
| Calcium | 161 | 6.00 | 100 | 60.3 | 101 | 75 | 125 | | | |

| | |
|---|--|
| <p>Qualifiers:</p> <p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p> | <p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAP certified</p> |
|---|--|

CLIENT: Golder
Work Order: 2106204
Project: 1H21 Coleta Creek

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_210630A

| Sample ID: 2106175-03A MS | Batch ID: 101062 | TestNo: SW6020B | Units: mg/L | | | | | | | |
|----------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: MS | Run ID: ICP-MS4_210630A | Analysis Date: 6/30/2021 3:10:00 PM | Prep Date: 6/29/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 3.97 | 0.600 | 0.200 | 3.91 | 32.7 | 75 | 125 | | | S |
| Calcium | 65.2 | 6.00 | 5.00 | 60.3 | 99.6 | 75 | 125 | | | |

| Sample ID: 2106175-03A MSD | Batch ID: 101062 | TestNo: SW6020B | Units: mg/L | | | | | | | |
|-----------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|-------|----------|------|
| SampType: MSD | Run ID: ICP-MS4_210630A | Analysis Date: 6/30/2021 3:12:00 PM | Prep Date: 6/29/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 4.02 | 0.600 | 0.200 | 3.91 | 56.2 | 75 | 125 | 1.18 | 15 | S |
| Calcium | 65.1 | 6.00 | 5.00 | 60.3 | 96.0 | 75 | 125 | 0.276 | 15 | |

| Sample ID: 2106175-03A SD | Batch ID: 101062 | TestNo: SW6020B | Units: mg/L | | | | | | | |
|----------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: SD | Run ID: ICP-MS4_210630A | Analysis Date: 6/30/2021 3:26:00 PM | Prep Date: 6/29/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Beryllium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 20 | |
| Lithium | 0.386 | 0.0500 | 0 | 0.338 | | | | 13.3 | 20 | |

| Sample ID: 2106175-03A PDS | Batch ID: 101062 | TestNo: SW6020B | Units: mg/L | | | | | | | |
|-----------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: PDS | Run ID: ICP-MS4_210630A | Analysis Date: 6/30/2021 3:42:00 PM | Prep Date: 6/29/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Beryllium | 0.164 | 0.00100 | 0.200 | 0 | 81.9 | 75 | 125 | | | |
| Lithium | 0.472 | 0.0100 | 0.200 | 0.338 | 67.2 | 75 | 125 | | | S |

| Sample ID: 2106175-03A MS | Batch ID: 101062 | TestNo: SW6020B | Units: mg/L | | | | | | | |
|----------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: MS | Run ID: ICP-MS4_210630A | Analysis Date: 6/30/2021 3:44:00 PM | Prep Date: 6/29/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Beryllium | 0.168 | 0.00100 | 0.200 | 0 | 84.2 | 75 | 125 | | | |
| Lithium | 0.481 | 0.0100 | 0.200 | 0.338 | 71.5 | 75 | 125 | | | S |

| Sample ID: 2106175-03A MSD | Batch ID: 101062 | TestNo: SW6020B | Units: mg/L | | | | | | | |
|-----------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|-------|----------|------|
| SampType: MSD | Run ID: ICP-MS4_210630A | Analysis Date: 6/30/2021 3:46:00 PM | Prep Date: 6/29/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Beryllium | 0.168 | 0.00100 | 0.200 | 0 | 84.2 | 75 | 125 | 0.076 | 15 | |
| Lithium | 0.500 | 0.0100 | 0.200 | 0.338 | 80.8 | 75 | 125 | 3.80 | 15 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAP certified

CLIENT: Golder
Work Order: 2106204
Project: 1H21 Coleta Creek

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_210630A

| Sample ID: ICV-210630 | Batch ID: R116018 | TestNo: SW6020B | Units: mg/L | | | | | | | |
|------------------------------|--------------------------------|---|--------------------|---------|------|----------|-----------|------|----------|------|
| SampType: ICV | Run ID: ICP-MS4_210630A | Analysis Date: 6/30/2021 12:54:00 PM | Prep Date: | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Beryllium | 0.102 | 0.00100 | 0.100 | 0 | 102 | 90 | 110 | | | |
| Boron | 0.104 | 0.0300 | 0.100 | 0 | 104 | 90 | 110 | | | |
| Calcium | 2.57 | 0.300 | 2.50 | 0 | 103 | 90 | 110 | | | |
| Lithium | 0.103 | 0.0100 | 0.100 | 0 | 103 | 90 | 110 | | | |

| Sample ID: LCVL-210630 | Batch ID: R116018 | TestNo: SW6020B | Units: mg/L | | | | | | | |
|-------------------------------|--------------------------------|--|--------------------|---------|------|----------|-----------|------|----------|------|
| SampType: LCVL | Run ID: ICP-MS4_210630A | Analysis Date: 6/30/2021 1:07:00 PM | Prep Date: | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Beryllium | 0.00107 | 0.00100 | 0.00100 | 0 | 107 | 80 | 120 | | | |
| Boron | 0.0220 | 0.0300 | 0.0200 | 0 | 110 | 80 | 120 | | | |
| Calcium | 0.0893 | 0.300 | 0.100 | 0 | 89.3 | 80 | 120 | | | |
| Lithium | 0.0103 | 0.0100 | 0.0100 | 0 | 103 | 80 | 120 | | | |

| Sample ID: CCV1-210630 | Batch ID: R116018 | TestNo: SW6020B | Units: mg/L | | | | | | | |
|-------------------------------|--------------------------------|--|--------------------|---------|------|----------|-----------|------|----------|------|
| SampType: CCV | Run ID: ICP-MS4_210630A | Analysis Date: 6/30/2021 2:46:00 PM | Prep Date: | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Beryllium | 0.199 | 0.00100 | 0.200 | 0 | 99.6 | 90 | 110 | | | |
| Boron | 0.197 | 0.0300 | 0.200 | 0 | 98.7 | 90 | 110 | | | |
| Calcium | 5.19 | 0.300 | 5.00 | 0 | 104 | 90 | 110 | | | |
| Lithium | 0.203 | 0.0100 | 0.200 | 0 | 102 | 90 | 110 | | | |

| Sample ID: CCV2-210630 | Batch ID: R116018 | TestNo: SW6020B | Units: mg/L | | | | | | | |
|-------------------------------|--------------------------------|--|--------------------|---------|------|----------|-----------|------|----------|------|
| SampType: CCV | Run ID: ICP-MS4_210630A | Analysis Date: 6/30/2021 3:16:00 PM | Prep Date: | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Beryllium | 0.194 | 0.00100 | 0.200 | 0 | 97.1 | 90 | 110 | | | |
| Boron | 0.196 | 0.0300 | 0.200 | 0 | 98.1 | 90 | 110 | | | |
| Calcium | 5.12 | 0.300 | 5.00 | 0 | 102 | 90 | 110 | | | |
| Lithium | 0.195 | 0.0100 | 0.200 | 0 | 97.4 | 90 | 110 | | | |

| Sample ID: CCV3-210630 | Batch ID: R116018 | TestNo: SW6020B | Units: mg/L | | | | | | | |
|-------------------------------|--------------------------------|--|--------------------|---------|------|----------|-----------|------|----------|------|
| SampType: CCV | Run ID: ICP-MS4_210630A | Analysis Date: 6/30/2021 3:51:00 PM | Prep Date: | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Beryllium | 0.194 | 0.00100 | 0.200 | 0 | 97.0 | 90 | 110 | | | |
| Lithium | 0.198 | 0.0100 | 0.200 | 0 | 98.8 | 90 | 110 | | | |

Qualifiers:

| | |
|---|---|
| B Analyte detected in the associated Method Blank | DF Dilution Factor |
| J Analyte detected between MDL and RL | MDL Method Detection Limit |
| ND Not Detected at the Method Detection Limit | R RPD outside accepted control limits |
| RL Reporting Limit | S Spike Recovery outside control limits |
| J Analyte detected between SDL and RL | N Parameter not NELAP certified |

CLIENT: Golder
Work Order: 2106204
Project: 1H21 Coleta Creek

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_210630A

| | | | |
|-------------------------------|--------------------------------|--|--------------------|
| Sample ID: CCV6-210630 | Batch ID: R116018 | TestNo: SW6020B | Units: mg/L |
| SampType: CCV | Run ID: ICP-MS4_210630A | Analysis Date: 6/30/2021 5:03:00 PM | Prep Date: |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|-----------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.195 | 0.00250 | 0.200 | 0 | 97.3 | 90 | 110 | | | |
| Arsenic | 0.198 | 0.00500 | 0.200 | 0 | 99.0 | 90 | 110 | | | |
| Barium | 0.198 | 0.0100 | 0.200 | 0 | 99.0 | 90 | 110 | | | |
| Beryllium | 0.194 | 0.00100 | 0.200 | 0 | 97.2 | 90 | 110 | | | |
| Cadmium | 0.202 | 0.00100 | 0.200 | 0 | 101 | 90 | 110 | | | |
| Chromium | 0.207 | 0.00500 | 0.200 | 0 | 104 | 90 | 110 | | | |
| Cobalt | 0.191 | 0.00500 | 0.200 | 0 | 95.4 | 90 | 110 | | | |
| Lead | 0.199 | 0.00100 | 0.200 | 0 | 99.3 | 90 | 110 | | | |
| Selenium | 0.203 | 0.00500 | 0.200 | 0 | 102 | 90 | 110 | | | |
| Thallium | 0.200 | 0.00150 | 0.200 | 0 | 99.8 | 90 | 110 | | | |

| | | |
|--------------------|--|---|
| Qualifiers: | B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAP certified |
|--------------------|--|---|

CLIENT: Golder
Work Order: 2106204
Project: 1H21 Coleta Creek

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_210428A

| Sample ID: DCS1-100323 | Batch ID: 100323 | TestNo: SW6020B | Units: mg/L | | | | | | | |
|-------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: DCS | Run ID: ICP-MS5_210428A | Analysis Date: 4/28/2021 10:49:00 AM | Prep Date: 4/27/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Antimony | 0.00105 | 0.00250 | 0.00100 | 0 | 105 | 70 | 130 | 0 | 0 | |
| Cadmium | 0.000461 | 0.00100 | 0.000500 | 0 | 92.2 | 70 | 130 | 0 | 0 | |
| Lead | 0.000474 | 0.00100 | 0.000500 | 0 | 94.8 | 70 | 130 | 0 | 0 | |
| Thallium | 0.000452 | 0.00150 | 0.000500 | 0 | 90.4 | 70 | 130 | 0 | 0 | |

| Sample ID: DCS3-100323 | Batch ID: 100323 | TestNo: SW6020B | Units: mg/L | | | | | | | |
|-------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: DCS3 | Run ID: ICP-MS5_210428A | Analysis Date: 4/28/2021 10:56:00 AM | Prep Date: 4/27/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Arsenic | 0.00467 | 0.00500 | 0.00500 | 0 | 93.3 | 70 | 130 | 0 | 0 | |
| Barium | 0.00472 | 0.0100 | 0.00500 | 0 | 94.4 | 70 | 130 | 0 | 0 | |
| Chromium | 0.00490 | 0.00500 | 0.00500 | 0 | 97.9 | 70 | 130 | 0 | 0 | |
| Cobalt | 0.00473 | 0.00500 | 0.00500 | 0 | 94.5 | 70 | 130 | 0 | 0 | |
| Molybdenum | 0.00482 | 0.00500 | 0.00500 | 0 | 96.4 | 70 | 130 | 0 | 0 | |
| Selenium | 0.00498 | 0.00500 | 0.00500 | 0 | 99.5 | 70 | 130 | 0 | 0 | |

| | |
|--|---|
| Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAP certified |
|--|---|

CLIENT: Golder
Work Order: 2106204
Project: 1H21 Coleta Creek

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_210630A

The QC data in batch 101062 applies to the following samples: 2106204-01A, 2106204-02A, 2106204-03A, 2106204-04A, 2106204-05A, 2106204-06A, 2106204-07A

| | | | |
|-----------------------------|--------------------------------|---|-----------------------------|
| Sample ID: MB-101062 | Batch ID: 101062 | TestNo: SW6020B | Units: mg/L |
| SampType: MBLK | Run ID: ICP-MS5_210630A | Analysis Date: 6/30/2021 12:45:00 PM | Prep Date: 6/29/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|-----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | <0.000800 | 0.00250 | | | | | | | | |
| Arsenic | <0.00200 | 0.00500 | | | | | | | | |
| Barium | <0.00300 | 0.0100 | | | | | | | | |
| Cadmium | <0.000300 | 0.00100 | | | | | | | | |
| Chromium | <0.00200 | 0.00500 | | | | | | | | |
| Cobalt | <0.00300 | 0.00500 | | | | | | | | |
| Lead | <0.000300 | 0.00100 | | | | | | | | |
| Molybdenum | <0.00200 | 0.00500 | | | | | | | | |
| Selenium | <0.00200 | 0.00500 | | | | | | | | |
| Thallium | <0.000500 | 0.00150 | | | | | | | | |

| | | | |
|------------------------------|--------------------------------|---|-----------------------------|
| Sample ID: LCS-101062 | Batch ID: 101062 | TestNo: SW6020B | Units: mg/L |
| SampType: LCS | Run ID: ICP-MS5_210630A | Analysis Date: 6/30/2021 12:48:00 PM | Prep Date: 6/29/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.202 | 0.00250 | 0.200 | 0 | 101 | 80 | 120 | | | |
| Arsenic | 0.208 | 0.00500 | 0.200 | 0 | 104 | 80 | 120 | | | |
| Barium | 0.203 | 0.0100 | 0.200 | 0 | 101 | 80 | 120 | | | |
| Cadmium | 0.203 | 0.00100 | 0.200 | 0 | 101 | 80 | 120 | | | |
| Chromium | 0.202 | 0.00500 | 0.200 | 0 | 101 | 80 | 120 | | | |
| Cobalt | 0.208 | 0.00500 | 0.200 | 0 | 104 | 80 | 120 | | | |
| Lead | 0.197 | 0.00100 | 0.200 | 0 | 98.5 | 80 | 120 | | | |
| Molybdenum | 0.210 | 0.00500 | 0.200 | 0 | 105 | 80 | 120 | | | |
| Selenium | 0.205 | 0.00500 | 0.200 | 0 | 102 | 80 | 120 | | | |
| Thallium | 0.194 | 0.00150 | 0.200 | 0 | 97.0 | 80 | 120 | | | |

| | | | |
|-------------------------------|--------------------------------|---|-----------------------------|
| Sample ID: LCSD-101062 | Batch ID: 101062 | TestNo: SW6020B | Units: mg/L |
| SampType: LCSD | Run ID: ICP-MS5_210630A | Analysis Date: 6/30/2021 12:50:00 PM | Prep Date: 6/29/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | 0.204 | 0.00250 | 0.200 | 0 | 102 | 80 | 120 | 0.972 | 15 | |
| Arsenic | 0.207 | 0.00500 | 0.200 | 0 | 103 | 80 | 120 | 0.734 | 15 | |
| Barium | 0.203 | 0.0100 | 0.200 | 0 | 102 | 80 | 120 | 0.146 | 15 | |
| Cadmium | 0.205 | 0.00100 | 0.200 | 0 | 102 | 80 | 120 | 0.992 | 15 | |
| Chromium | 0.203 | 0.00500 | 0.200 | 0 | 102 | 80 | 120 | 0.738 | 15 | |
| Cobalt | 0.208 | 0.00500 | 0.200 | 0 | 104 | 80 | 120 | 0.003 | 15 | |
| Lead | 0.201 | 0.00100 | 0.200 | 0 | 100 | 80 | 120 | 1.91 | 15 | |
| Molybdenum | 0.211 | 0.00500 | 0.200 | 0 | 106 | 80 | 120 | 0.646 | 15 | |
| Selenium | 0.206 | 0.00500 | 0.200 | 0 | 103 | 80 | 120 | 0.448 | 15 | |

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
J Analyte detected between MDL and RL MDL Method Detection Limit
ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
RL Reporting Limit S Spike Recovery outside control limits
J Analyte detected between SDL and RL N Parameter not NELAP certified

CLIENT: Golder
 Work Order: 2106204
 Project: 1H21 Coleta Creek

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_210630A

| Sample ID: LCSD-101062 | Batch ID: 101062 | TestNo: SW6020B | Units: mg/L | | | | | | | |
|-------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: LCSD | Run ID: ICP-MS5_210630A | Analysis Date: 6/30/2021 12:50:00 PM | Prep Date: 6/29/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Thallium | 0.197 | 0.00150 | 0.200 | 0 | 98.6 | 80 | 120 | 1.59 | 15 | |

| Sample ID: 2106175-03A SD | Batch ID: 101062 | TestNo: SW6020B | Units: mg/L | | | | | | | |
|----------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: SD | Run ID: ICP-MS5_210630A | Analysis Date: 6/30/2021 12:58:00 PM | Prep Date: 6/29/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Antimony | <0.00400 | 0.0125 | 0 | 0 | | | | 0 | 20 | |
| Arsenic | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 20 | |
| Barium | 0.0152 | 0.0500 | 0 | 0.0158 | | | | 3.94 | 20 | |
| Cadmium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 20 | |
| Chromium | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 20 | |
| Cobalt | <0.0150 | 0.0250 | 0 | 0 | | | | 0 | 20 | |
| Lead | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 20 | |
| Molybdenum | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 20 | |
| Selenium | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 20 | |
| Thallium | <0.00250 | 0.00750 | 0 | 0 | | | | 0 | 20 | |

| Sample ID: 2106175-03A PDS | Batch ID: 101062 | TestNo: SW6020B | Units: mg/L | | | | | | | |
|-----------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: PDS | Run ID: ICP-MS5_210630A | Analysis Date: 6/30/2021 1:34:00 PM | Prep Date: 6/29/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Antimony | 0.196 | 0.00250 | 0.200 | 0 | 97.8 | 75 | 125 | | | |
| Arsenic | 0.184 | 0.00500 | 0.200 | 0 | 92.1 | 75 | 125 | | | |
| Barium | 0.216 | 0.0100 | 0.200 | 0.0158 | 100 | 75 | 125 | | | |
| Cadmium | 0.183 | 0.00100 | 0.200 | 0 | 91.6 | 75 | 125 | | | |
| Chromium | 0.190 | 0.00500 | 0.200 | 0 | 95.0 | 75 | 125 | | | |
| Cobalt | 0.187 | 0.00500 | 0.200 | 0 | 93.7 | 75 | 125 | | | |
| Lead | 0.200 | 0.00100 | 0.200 | 0 | 100 | 75 | 125 | | | |
| Molybdenum | 0.207 | 0.00500 | 0.200 | 0 | 103 | 75 | 125 | | | |
| Selenium | 0.213 | 0.00500 | 0.200 | 0 | 107 | 75 | 125 | | | |
| Thallium | 0.196 | 0.00150 | 0.200 | 0 | 98.1 | 75 | 125 | | | |

| Sample ID: 2106175-03A MS | Batch ID: 101062 | TestNo: SW6020B | Units: mg/L | | | | | | | |
|----------------------------------|--------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: MS | Run ID: ICP-MS5_210630A | Analysis Date: 6/30/2021 1:37:00 PM | Prep Date: 6/29/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Antimony | 0.200 | 0.00250 | 0.200 | 0 | 99.8 | 75 | 125 | | | |
| Arsenic | 0.195 | 0.00500 | 0.200 | 0 | 97.7 | 75 | 125 | | | |
| Barium | 0.219 | 0.0100 | 0.200 | 0.0158 | 102 | 75 | 125 | | | |
| Cadmium | 0.188 | 0.00100 | 0.200 | 0 | 93.8 | 75 | 125 | | | |
| Chromium | 0.192 | 0.00500 | 0.200 | 0 | 96.0 | 75 | 125 | | | |

Qualifiers:

| | | | |
|----|---|-----|---------------------------------------|
| B | Analyte detected in the associated Method Blank | DF | Dilution Factor |
| J | Analyte detected between MDL and RL | MDL | Method Detection Limit |
| ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| RL | Reporting Limit | S | Spike Recovery outside control limits |
| J | Analyte detected between SDL and RL | N | Parameter not NELAP certified |

CLIENT: Golder
Work Order: 2106204
Project: 1H21 Coleta Creek

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_210630A

| | | | |
|----------------------------------|--------------------------------|--|-----------------------------|
| Sample ID: 2106175-03A MS | Batch ID: 101062 | TestNo: SW6020B | Units: mg/L |
| SampType: MS | Run ID: ICP-MS5_210630A | Analysis Date: 6/30/2021 1:37:00 PM | Prep Date: 6/29/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Cobalt | 0.192 | 0.00500 | 0.200 | 0 | 95.9 | 75 | 125 | | | |
| Lead | 0.206 | 0.00100 | 0.200 | 0 | 103 | 75 | 125 | | | |
| Molybdenum | 0.218 | 0.00500 | 0.200 | 0 | 109 | 75 | 125 | | | |
| Selenium | 0.221 | 0.00500 | 0.200 | 0 | 111 | 75 | 125 | | | |
| Thallium | 0.203 | 0.00150 | 0.200 | 0 | 102 | 75 | 125 | | | |

| | | | |
|-----------------------------------|--------------------------------|--|-----------------------------|
| Sample ID: 2106175-03A MSD | Batch ID: 101062 | TestNo: SW6020B | Units: mg/L |
| SampType: MSD | Run ID: ICP-MS5_210630A | Analysis Date: 6/30/2021 1:40:00 PM | Prep Date: 6/29/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | 0.198 | 0.00250 | 0.200 | 0 | 99.2 | 75 | 125 | 0.597 | 15 | |
| Arsenic | 0.195 | 0.00500 | 0.200 | 0 | 97.3 | 75 | 125 | 0.458 | 15 | |
| Barium | 0.218 | 0.0100 | 0.200 | 0.0158 | 101 | 75 | 125 | 0.792 | 15 | |
| Cadmium | 0.186 | 0.00100 | 0.200 | 0 | 92.8 | 75 | 125 | 1.09 | 15 | |
| Chromium | 0.188 | 0.00500 | 0.200 | 0 | 93.9 | 75 | 125 | 2.21 | 15 | |
| Cobalt | 0.191 | 0.00500 | 0.200 | 0 | 95.4 | 75 | 125 | 0.482 | 15 | |
| Lead | 0.204 | 0.00100 | 0.200 | 0 | 102 | 75 | 125 | 0.912 | 15 | |
| Molybdenum | 0.216 | 0.00500 | 0.200 | 0 | 108 | 75 | 125 | 0.902 | 15 | |
| Selenium | 0.220 | 0.00500 | 0.200 | 0 | 110 | 75 | 125 | 0.632 | 15 | |
| Thallium | 0.202 | 0.00150 | 0.200 | 0 | 101 | 75 | 125 | 0.628 | 15 | |

| | |
|---|--|
| <p>Qualifiers:</p> <p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p> | <p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAP certified</p> |
|---|--|

CLIENT: Golder
Work Order: 2106204
Project: 1H21 Coleta Creek

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_210630A

| | | | |
|------------------------------|--------------------------------|---|--------------------|
| Sample ID: ICV-210630 | Batch ID: R116016 | TestNo: SW6020B | Units: mg/L |
| SampType: ICV | Run ID: ICP-MS5_210630A | Analysis Date: 6/30/2021 10:59:00 AM | Prep Date: |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.101 | 0.00250 | 0.100 | 0 | 101 | 90 | 110 | | | |
| Arsenic | 0.0998 | 0.00500 | 0.100 | 0 | 99.8 | 90 | 110 | | | |
| Barium | 0.103 | 0.0100 | 0.100 | 0 | 103 | 90 | 110 | | | |
| Cadmium | 0.100 | 0.00100 | 0.100 | 0 | 100 | 90 | 110 | | | |
| Chromium | 0.101 | 0.00500 | 0.100 | 0 | 101 | 90 | 110 | | | |
| Cobalt | 0.102 | 0.00500 | 0.100 | 0 | 102 | 90 | 110 | | | |
| Lead | 0.0994 | 0.00100 | 0.100 | 0 | 99.4 | 90 | 110 | | | |
| Molybdenum | 0.0977 | 0.00500 | 0.100 | 0 | 97.7 | 90 | 110 | | | |
| Selenium | 0.101 | 0.00500 | 0.100 | 0 | 101 | 90 | 110 | | | |
| Thallium | 0.0966 | 0.00150 | 0.100 | 0 | 96.6 | 90 | 110 | | | |

| | | | |
|-------------------------------|--------------------------------|---|--------------------|
| Sample ID: LCVL-210630 | Batch ID: R116016 | TestNo: SW6020B | Units: mg/L |
| SampType: LCVL | Run ID: ICP-MS5_210630A | Analysis Date: 6/30/2021 11:08:00 AM | Prep Date: |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.00188 | 0.00250 | 0.00200 | 0 | 94.0 | 80 | 120 | | | |
| Arsenic | 0.00480 | 0.00500 | 0.00500 | 0 | 96.1 | 80 | 120 | | | |
| Barium | 0.00498 | 0.0100 | 0.00500 | 0 | 99.7 | 80 | 120 | | | |
| Cadmium | 0.000935 | 0.00100 | 0.00100 | 0 | 93.5 | 80 | 120 | | | |
| Chromium | 0.00488 | 0.00500 | 0.00500 | 0 | 97.5 | 80 | 120 | | | |
| Cobalt | 0.00471 | 0.00500 | 0.00500 | 0 | 94.3 | 80 | 120 | | | |
| Lead | 0.00102 | 0.00100 | 0.00100 | 0 | 102 | 80 | 120 | | | |
| Molybdenum | 0.00499 | 0.00500 | 0.00500 | 0 | 99.9 | 80 | 120 | | | |
| Selenium | 0.00473 | 0.00500 | 0.00500 | 0 | 94.7 | 80 | 120 | | | |
| Thallium | 0.000960 | 0.00150 | 0.00100 | 0 | 96.0 | 80 | 120 | | | |

| | | | |
|-------------------------------|--------------------------------|---|--------------------|
| Sample ID: CCV2-210630 | Batch ID: R116016 | TestNo: SW6020B | Units: mg/L |
| SampType: CCV | Run ID: ICP-MS5_210630A | Analysis Date: 6/30/2021 12:29:00 PM | Prep Date: |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.203 | 0.00250 | 0.200 | 0 | 101 | 90 | 110 | | | |
| Arsenic | 0.201 | 0.00500 | 0.200 | 0 | 100 | 90 | 110 | | | |
| Barium | 0.198 | 0.0100 | 0.200 | 0 | 98.9 | 90 | 110 | | | |
| Cadmium | 0.199 | 0.00100 | 0.200 | 0 | 99.6 | 90 | 110 | | | |
| Chromium | 0.199 | 0.00500 | 0.200 | 0 | 99.7 | 90 | 110 | | | |
| Cobalt | 0.202 | 0.00500 | 0.200 | 0 | 101 | 90 | 110 | | | |
| Lead | 0.197 | 0.00100 | 0.200 | 0 | 98.6 | 90 | 110 | | | |
| Molybdenum | 0.204 | 0.00500 | 0.200 | 0 | 102 | 90 | 110 | | | |
| Selenium | 0.200 | 0.00500 | 0.200 | 0 | 99.8 | 90 | 110 | | | |
| Thallium | 0.191 | 0.00150 | 0.200 | 0 | 95.4 | 90 | 110 | | | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAP certified

CLIENT: Golder
 Work Order: 2106204
 Project: 1H21 Coleta Creek

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_210630A

| | | | |
|-------------------------------|--------------------------------|--|--------------------|
| Sample ID: CCV3-210630 | Batch ID: R116016 | TestNo: SW6020B | Units: mg/L |
| SampType: CCV | Run ID: ICP-MS5_210630A | Analysis Date: 6/30/2021 2:09:00 PM | Prep Date: |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.199 | 0.00250 | 0.200 | 0 | 99.5 | 90 | 110 | | | |
| Arsenic | 0.198 | 0.00500 | 0.200 | 0 | 98.9 | 90 | 110 | | | |
| Barium | 0.195 | 0.0100 | 0.200 | 0 | 97.7 | 90 | 110 | | | |
| Cadmium | 0.199 | 0.00100 | 0.200 | 0 | 99.3 | 90 | 110 | | | |
| Chromium | 0.198 | 0.00500 | 0.200 | 0 | 98.9 | 90 | 110 | | | |
| Cobalt | 0.199 | 0.00500 | 0.200 | 0 | 99.5 | 90 | 110 | | | |
| Lead | 0.194 | 0.00100 | 0.200 | 0 | 96.8 | 90 | 110 | | | |
| Molybdenum | 0.202 | 0.00500 | 0.200 | 0 | 101 | 90 | 110 | | | |
| Selenium | 0.195 | 0.00500 | 0.200 | 0 | 97.3 | 90 | 110 | | | |
| Thallium | 0.189 | 0.00150 | 0.200 | 0 | 94.7 | 90 | 110 | | | |

| | | | |
|-------------------------------|--------------------------------|--|--------------------|
| Sample ID: CCV4-210630 | Batch ID: R116016 | TestNo: SW6020B | Units: mg/L |
| SampType: CCV | Run ID: ICP-MS5_210630A | Analysis Date: 6/30/2021 2:26:00 PM | Prep Date: |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.201 | 0.00250 | 0.200 | 0 | 100 | 90 | 110 | | | |
| Arsenic | 0.200 | 0.00500 | 0.200 | 0 | 100 | 90 | 110 | | | |
| Barium | 0.200 | 0.0100 | 0.200 | 0 | 99.8 | 90 | 110 | | | |
| Cadmium | 0.201 | 0.00100 | 0.200 | 0 | 101 | 90 | 110 | | | |
| Chromium | 0.199 | 0.00500 | 0.200 | 0 | 99.4 | 90 | 110 | | | |
| Cobalt | 0.203 | 0.00500 | 0.200 | 0 | 101 | 90 | 110 | | | |
| Lead | 0.196 | 0.00100 | 0.200 | 0 | 97.8 | 90 | 110 | | | |
| Molybdenum | 0.207 | 0.00500 | 0.200 | 0 | 103 | 90 | 110 | | | |
| Selenium | 0.194 | 0.00500 | 0.200 | 0 | 96.9 | 90 | 110 | | | |
| Thallium | 0.190 | 0.00150 | 0.200 | 0 | 95.1 | 90 | 110 | | | |

Qualifiers:

| | |
|---|---|
| B Analyte detected in the associated Method Blank | DF Dilution Factor |
| J Analyte detected between MDL and RL | MDL Method Detection Limit |
| ND Not Detected at the Method Detection Limit | R RPD outside accepted control limits |
| RL Reporting Limit | S Spike Recovery outside control limits |
| J Analyte detected between SDL and RL | N Parameter not NELAP certified |

CLIENT: Golder
Work Order: 2106204
Project: 1H21 Coleta Creek

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_210624A

| | | | |
|-------------------------------|----------------------------|--|-----------------------------|
| Sample ID: DCS2-101017 | Batch ID: 101017 | TestNo: E300 | Units: mg/L |
| SampType: DCS2 | Run ID: IC2_210624A | Analysis Date: 6/24/2021 3:27:47 PM | Prep Date: 6/24/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Chloride | 0.445 | 1.00 | 0.5000 | 0 | 89.0 | 70 | 130 | 0 | 0 | |
| Fluoride | 0.226 | 0.400 | 0.2000 | 0 | 113 | 70 | 130 | 0 | 0 | |
| Sulfate | 1.60 | 3.00 | 1.500 | 0 | 107 | 70 | 130 | 0 | 0 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL

DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAP certified

CLIENT: Golder
 Work Order: 2106204
 Project: 1H21 Coleta Creek

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_210701B

The QC data in batch 101094 applies to the following samples: 2106204-01B, 2106204-02B, 2106204-03B, 2106204-04B, 2106204-05B, 2106204-06B, 2106204-07B

| | | | |
|-----------------------------|----------------------------|--|----------------------------|
| Sample ID: MB-101094 | Batch ID: 101094 | TestNo: E300 | Units: mg/L |
| SampType: MBLK | Run ID: IC2_210701B | Analysis Date: 7/1/2021 12:58:49 PM | Prep Date: 7/1/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Chloride | <0.300 | 1.00 | | | | | | | | |
| Fluoride | <0.100 | 0.400 | | | | | | | | |
| Sulfate | <1.00 | 3.00 | | | | | | | | |

| | | | |
|------------------------------|----------------------------|---|----------------------------|
| Sample ID: LCS-101094 | Batch ID: 101094 | TestNo: E300 | Units: mg/L |
| SampType: LCS | Run ID: IC2_210701B | Analysis Date: 7/1/2021 1:14:49 PM | Prep Date: 7/1/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Chloride | 9.86 | 1.00 | 10.00 | 0 | 98.6 | 90 | 110 | | | |
| Fluoride | 3.90 | 0.400 | 4.000 | 0 | 97.5 | 90 | 110 | | | |
| Sulfate | 29.3 | 3.00 | 30.00 | 0 | 97.7 | 90 | 110 | | | |

| | | | |
|------------------------------|----------------------------|---|----------------------------|
| Sample ID: LCS-101094 | Batch ID: 101094 | TestNo: E300 | Units: mg/L |
| SampType: LCS | Run ID: IC2_210701B | Analysis Date: 7/1/2021 1:30:49 PM | Prep Date: 7/1/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|-------|-----------|---------|------|----------|-----------|-------|----------|------|
| Chloride | 9.85 | 1.00 | 10.00 | 0 | 98.5 | 90 | 110 | 0.103 | 20 | |
| Fluoride | 3.94 | 0.400 | 4.000 | 0 | 98.5 | 90 | 110 | 1.00 | 20 | |
| Sulfate | 29.2 | 3.00 | 30.00 | 0 | 97.4 | 90 | 110 | 0.327 | 20 | |

| | | | |
|---------------------------------|----------------------------|---|----------------------------|
| Sample ID: 2106204-01BMS | Batch ID: 101094 | TestNo: E300 | Units: mg/L |
| SampType: MS | Run ID: IC2_210701B | Analysis Date: 7/1/2021 5:03:34 PM | Prep Date: 7/1/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Chloride | 247 | 10.0 | 200.0 | 53.18 | 96.9 | 90 | 110 | | | |
| Fluoride | 194 | 4.00 | 200.0 | 0 | 97.1 | 90 | 110 | | | |
| Sulfate | 222 | 30.0 | 200.0 | 54.52 | 83.5 | 90 | 110 | | | S |

| | | | |
|----------------------------------|----------------------------|---|----------------------------|
| Sample ID: 2106204-01BMSD | Batch ID: 101094 | TestNo: E300 | Units: mg/L |
| SampType: MSD | Run ID: IC2_210701B | Analysis Date: 7/1/2021 5:19:34 PM | Prep Date: 7/1/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| Chloride | 246 | 10.0 | 200.0 | 53.18 | 96.6 | 90 | 110 | 0.201 | 20 | |
| Fluoride | 194 | 4.00 | 200.0 | 0 | 97.1 | 90 | 110 | 0.021 | 20 | |
| Sulfate | 221 | 30.0 | 200.0 | 54.52 | 83.5 | 90 | 110 | 0.083 | 20 | S |

| | |
|--|---|
| Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAP certified |
|--|---|

CLIENT: Golder
Work Order: 2106204
Project: 1H21 Coleta Creek

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_210701B

| Sample ID: 2106204-02BMS | Batch ID: 101094 | TestNo: E300 | Units: mg/L | | | | | | | |
|---------------------------------|----------------------------|---|----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: MS | Run ID: IC2_210701B | Analysis Date: 7/1/2021 5:51:34 PM | Prep Date: 7/1/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 263 | 10.0 | 200.0 | 72.74 | 95.1 | 90 | 110 | | | |
| Fluoride | 191 | 4.00 | 200.0 | 0 | 95.6 | 90 | 110 | | | |
| Sulfate | 245 | 30.0 | 200.0 | 78.71 | 83.3 | 90 | 110 | | | S |

| Sample ID: 2106204-02BMSD | Batch ID: 101094 | TestNo: E300 | Units: mg/L | | | | | | | |
|----------------------------------|----------------------------|---|----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: MSD | Run ID: IC2_210701B | Analysis Date: 7/1/2021 6:07:34 PM | Prep Date: 7/1/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 266 | 10.0 | 200.0 | 72.74 | 96.5 | 90 | 110 | 1.09 | 20 | |
| Fluoride | 193 | 4.00 | 200.0 | 0 | 96.6 | 90 | 110 | 1.05 | 20 | |
| Sulfate | 248 | 30.0 | 200.0 | 78.71 | 84.8 | 90 | 110 | 1.23 | 20 | S |

| | |
|--|---|
| Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAP certified |
|--|---|

CLIENT: Golder
Work Order: 2106204
Project: 1H21 Coleta Creek

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_210701B

| | | | |
|------------------------------|----------------------------|--|--------------------|
| Sample ID: ICV-210701 | Batch ID: R116034 | TestNo: E300 | Units: mg/L |
| SampType: ICV | Run ID: IC2_210701B | Analysis Date: 7/1/2021 12:26:48 PM | Prep Date: |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Chloride | 25.0 | 1.00 | 25.00 | 0 | 100 | 90 | 110 | | | |
| Fluoride | 9.93 | 0.400 | 10.00 | 0 | 99.3 | 90 | 110 | | | |
| Sulfate | 76.3 | 3.00 | 75.00 | 0 | 102 | 90 | 110 | | | |

| | | | |
|-------------------------------|----------------------------|---|--------------------|
| Sample ID: CCV1-210701 | Batch ID: R116034 | TestNo: E300 | Units: mg/L |
| SampType: CCV | Run ID: IC2_210701B | Analysis Date: 7/1/2021 9:03:34 PM | Prep Date: |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Chloride | 9.93 | 1.00 | 10.00 | 0 | 99.3 | 90 | 110 | | | |
| Fluoride | 4.04 | 0.400 | 4.000 | 0 | 101 | 90 | 110 | | | |
| Sulfate | 29.4 | 3.00 | 30.00 | 0 | 98.1 | 90 | 110 | | | |

| | | | |
|-------------------------------|----------------------------|---|--------------------|
| Sample ID: CCV2-210701 | Batch ID: R116034 | TestNo: E300 | Units: mg/L |
| SampType: CCV | Run ID: IC2_210701B | Analysis Date: 7/2/2021 1:03:34 AM | Prep Date: |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Fluoride | 4.06 | 0.400 | 4.000 | 0 | 102 | 90 | 110 | | | |
| Sulfate | 29.2 | 3.00 | 30.00 | 0 | 97.2 | 90 | 110 | | | |

| | | | |
|-------------------------------|----------------------------|---|--------------------|
| Sample ID: CCV3-210701 | Batch ID: R116034 | TestNo: E300 | Units: mg/L |
| SampType: CCV | Run ID: IC2_210701B | Analysis Date: 7/2/2021 4:31:34 AM | Prep Date: |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Fluoride | 4.09 | 0.400 | 4.000 | 0 | 102 | 90 | 110 | | | |
| Sulfate | 29.5 | 3.00 | 30.00 | 0 | 98.5 | 90 | 110 | | | |

Qualifiers:

| | |
|---|---|
| B Analyte detected in the associated Method Blank | DF Dilution Factor |
| J Analyte detected between MDL and RL | MDL Method Detection Limit |
| ND Not Detected at the Method Detection Limit | R RPD outside accepted control limits |
| RL Reporting Limit | S Spike Recovery outside control limits |
| J Analyte detected between SDL and RL | N Parameter not NELAP certified |

CLIENT: Golder
Work Order: 2106204
Project: 1H21 Coleta Creek

ANALYTICAL QC SUMMARY REPORT

RunID: WC_210628C

The QC data in batch 101038 applies to the following samples: 2106204-01B, 2106204-02B, 2106204-03B, 2106204-04B, 2106204-05B, 2106204-06B, 2106204-07B

| | | | | | | | | | | |
|--|---------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: MB-101038 | Batch ID: 101038 | TestNo: M2540C | Units: mg/L | | | | | | | |
| SampType: MBLK | Run ID: WC_210628C | Analysis Date: 6/28/2021 4:30:00 PM | Prep Date: 6/28/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Total Dissolved Solids (Residue, Filtera | | <10.0 | 10.0 | | | | | | | |

| | | | | | | | | | | |
|--|---------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: LCS-101038 | Batch ID: 101038 | TestNo: M2540C | Units: mg/L | | | | | | | |
| SampType: LCS | Run ID: WC_210628C | Analysis Date: 6/28/2021 4:30:00 PM | Prep Date: 6/28/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Total Dissolved Solids (Residue, Filtera | | 744 | 10.0 | 745.6 | 0 | 99.8 | 90 | 113 | | |

| | | | | | | | | | | |
|--|---------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: 2106175-01C-DUP | Batch ID: 101038 | TestNo: M2540C | Units: mg/L | | | | | | | |
| SampType: DUP | Run ID: WC_210628C | Analysis Date: 6/28/2021 4:30:00 PM | Prep Date: 6/28/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Total Dissolved Solids (Residue, Filtera | | 4130 | 50.0 | 0 | 4185 | | | 1.44 | 5 | |

| | | | | | | | | | | |
|--|---------------------------|--|-----------------------------|---------|------|----------|-----------|-------|----------|------|
| Sample ID: 2106175-02C-DUP | Batch ID: 101038 | TestNo: M2540C | Units: mg/L | | | | | | | |
| SampType: DUP | Run ID: WC_210628C | Analysis Date: 6/28/2021 4:30:00 PM | Prep Date: 6/28/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Total Dissolved Solids (Residue, Filtera | | 5540 | 50.0 | 0 | 5560 | | | 0.360 | 5 | |

| | |
|---|--|
| <p>Qualifiers:</p> <p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p> | <p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAP certified</p> |
|---|--|

CLIENT: Golder
Work Order: 2106204
Project: 1H21 Coleta Creek

MQL SUMMARY REPORT

| TestNo: E300 | MDL | MQL |
|---------------------|-------------|-------------|
| Analyte | mg/L | mg/L |
| Chloride | 0.300 | 1.00 |
| Fluoride | 0.100 | 0.400 |
| Sulfate | 1.00 | 3.00 |

| TestNo: SW6020B | MDL | MQL |
|------------------------|-------------|-------------|
| Analyte | mg/L | mg/L |
| Antimony | 0.000800 | 0.00250 |
| Arsenic | 0.00200 | 0.00500 |
| Barium | 0.00300 | 0.0100 |
| Beryllium | 0.000300 | 0.00100 |
| Boron | 0.0100 | 0.0300 |
| Cadmium | 0.000300 | 0.00100 |
| Calcium | 0.100 | 0.300 |
| Chromium | 0.00200 | 0.00500 |
| Cobalt | 0.00300 | 0.00500 |
| Lead | 0.000300 | 0.00100 |
| Lithium | 0.00500 | 0.0100 |
| Molybdenum | 0.00200 | 0.00500 |
| Selenium | 0.00200 | 0.00500 |
| Thallium | 0.000500 | 0.00150 |

| TestNo: SW7470A | MDL | MQL |
|------------------------|-------------|-------------|
| Analyte | mg/L | mg/L |
| Mercury | 0.0000800 | 0.000200 |

| TestNo: M2540C | MDL | MQL |
|---------------------------------------|-------------|-------------|
| Analyte | mg/L | mg/L |
| Total Dissolved Solids (Residue, Filt | 10.0 | 10.0 |

Qualifiers: MQL -Method Quantitation Limit as defined by TRRP
MDL -Method Detection Limit as defined by TRRP

July 29, 2021

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

DHL Analytical, Inc.

Sample Delivery Group: L1373251
Samples Received: 07/01/2021
Project Number:
Description:

Report To: John DuPont
2300 Double Creek Drive
Round Rock, TX 78664

Entire Report Reviewed By:



Donna Eidson
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

APPENDIX E-Revision 2 October 10, 2023

ACCOUNT:
DHL Analytical, Inc.

PROJECT: 44

SDG:
L1373251

DATE/TIME:
07/29/21 16:00

PAGE:
1 of 17

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SAMPLE SUMMARY

MW-8 L1373251-01 Non-Potable Water

Collected by
Collected date/time
Received date/time

06/25/21 09:30 07/01/21 10:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904 | WG1708601 | 1 | 07/21/21 14:40 | 07/27/21 13:45 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1700230 | 1 | 07/26/21 10:47 | 07/27/21 13:45 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1700230 | 1 | 07/26/21 10:47 | 07/27/21 10:59 | RGT | Mt. Juliet, TN |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

MW-6 L1373251-02 Non-Potable Water

Collected by
Collected date/time
Received date/time

06/25/21 10:55 07/01/21 10:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904 | WG1708601 | 1 | 07/21/21 14:40 | 07/27/21 13:45 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1700230 | 1 | 07/26/21 10:47 | 07/27/21 13:45 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1700230 | 1 | 07/26/21 10:47 | 07/27/21 10:59 | RGT | Mt. Juliet, TN |

MW-11 L1373251-03 Non-Potable Water

Collected by
Collected date/time
Received date/time

06/25/21 12:00 07/01/21 10:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904 | WG1708601 | 1 | 07/21/21 14:40 | 07/27/21 13:45 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1700230 | 1 | 07/26/21 10:47 | 07/27/21 13:45 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1700230 | 1 | 07/26/21 10:47 | 07/27/21 10:59 | RGT | Mt. Juliet, TN |

MW-101 L1373251-04 Non-Potable Water

Collected by
Collected date/time
Received date/time

06/25/21 12:10 07/01/21 10:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904 | WG1708601 | 1 | 07/21/21 14:40 | 07/27/21 13:45 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1700230 | 1 | 07/26/21 10:47 | 07/27/21 13:45 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1700230 | 1 | 07/26/21 10:47 | 07/27/21 10:59 | RGT | Mt. Juliet, TN |

MW-9 L1373251-05 Non-Potable Water

Collected by
Collected date/time
Received date/time

06/25/21 13:00 07/01/21 10:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904 | WG1708601 | 1 | 07/21/21 14:40 | 07/27/21 13:45 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1700230 | 1 | 07/26/21 10:47 | 07/27/21 13:45 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1700230 | 1 | 07/26/21 10:47 | 07/27/21 10:59 | RGT | Mt. Juliet, TN |

MW-10 L1373251-06 Non-Potable Water

Collected by
Collected date/time
Received date/time

06/25/21 13:50 07/01/21 10:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904 | WG1708601 | 1 | 07/21/21 14:40 | 07/27/21 13:45 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1700230 | 1 | 07/26/21 10:47 | 07/27/21 13:45 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1700230 | 1 | 07/26/21 10:47 | 07/27/21 10:59 | RGT | Mt. Juliet, TN |

SAMPLE SUMMARY

MW-5 L1373251-07 Non-Potable Water

Collected by:
 Collected date/time: 06/25/21 15:00
 Received date/time: 07/01/21 10:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904 | WG1708601 | 1 | 07/21/21 14:40 | 07/27/21 13:45 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1700230 | 1 | 07/26/21 10:47 | 07/27/21 13:45 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1700230 | 1 | 07/26/21 10:47 | 07/27/21 10:59 | RGT | Mt. Juliet, TN |

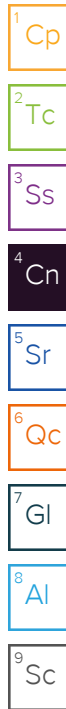
- ¹Cp
- ²Tc
- ³Ss
- ⁴Cn
- ⁵Sr
- ⁶Qc
- ⁷Gl
- ⁸Al
- ⁹Sc

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Donna Eidson
Project Manager



Radiochemistry by Method 904

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.639 | J | 0.427 | 0.79 | 07/27/2021 13:45 | WG1708601 |
| (T) Barium | 105 | | | 62.0-143 | 07/27/2021 13:45 | WG1708601 |
| (T) Yttrium | 108 | | | 79.0-136 | 07/27/2021 13:45 | WG1708601 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.787 | J | 0.583 | 0.985 | 07/27/2021 13:45 | WG1700230 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.148 | J | 0.156 | 0.195 | 07/27/2021 10:59 | WG1700230 |
| (T) Barium-133 | 106 | | | 30.0-143 | 07/27/2021 10:59 | WG1700230 |

Radiochemistry by Method 904

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 1.03 | | 0.357 | 0.646 | 07/27/2021 13:45 | WG1708601 |
| (T) Barium | 104 | | | 62.0-143 | 07/27/2021 13:45 | WG1708601 |
| (T) Yttrium | 100 | | | 79.0-136 | 07/27/2021 13:45 | WG1708601 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 1.24 | | 0.545 | 0.873 | 07/27/2021 13:45 | WG1700230 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.206 | J | 0.188 | 0.227 | 07/27/2021 10:59 | WG1700230 |
| (T) Barium-133 | 107 | | | 30.0-143 | 07/27/2021 10:59 | WG1700230 |

Radiochemistry by Method 904

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.824 | | 0.371 | 0.678 | 07/27/2021 13:45 | WG1708601 |
| (T) Barium | 95.5 | | | 62.0-143 | 07/27/2021 13:45 | WG1708601 |
| (T) Yttrium | 110 | | | 79.0-136 | 07/27/2021 13:45 | WG1708601 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 1.06 | | 0.594 | 0.96 | 07/27/2021 13:45 | WG1700230 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.237 | J | 0.223 | 0.282 | 07/27/2021 10:59 | WG1700230 |
| (T) Barium-133 | 105 | | | 30.0-143 | 07/27/2021 10:59 | WG1700230 |

Radiochemistry by Method 904

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 1.64 | | 0.317 | 0.549 | 07/27/2021 13:45 | WG1708601 |
| (T) Barium | 98.1 | | | 62.0-143 | 07/27/2021 13:45 | WG1708601 |
| (T) Yttrium | 103 | | | 79.0-136 | 07/27/2021 13:45 | WG1708601 |

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 1.81 | | 0.531 | 0.85 | 07/27/2021 13:45 | WG1700230 |

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.173 | J | 0.214 | 0.301 | 07/27/2021 10:59 | WG1700230 |
| (T) Barium-133 | 105 | | | 30.0-143 | 07/27/2021 10:59 | WG1700230 |

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method 904

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.665 | | 0.327 | 0.599 | 07/27/2021 13:45 | WG1708601 |
| (T) Barium | 100 | | | 62.0-143 | 07/27/2021 13:45 | WG1708601 |
| (T) Yttrium | 108 | | | 79.0-136 | 07/27/2021 13:45 | WG1708601 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 1.04 | | 0.590 | 0.891 | 07/27/2021 13:45 | WG1700230 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.380 | | 0.263 | 0.292 | 07/27/2021 10:59 | WG1700230 |
| (T) Barium-133 | 105 | | | 30.0-143 | 07/27/2021 10:59 | WG1700230 |

Radiochemistry by Method 904

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 1.13 | | 0.276 | 0.485 | 07/27/2021 13:45 | WG1708601 |
| (T) Barium | 103 | | | 62.0-143 | 07/27/2021 13:45 | WG1708601 |
| (T) Yttrium | 113 | | | 79.0-136 | 07/27/2021 13:45 | WG1708601 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 1.30 | | 0.443 | 0.677 | 07/27/2021 13:45 | WG1700230 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.179 | J | 0.167 | 0.192 | 07/27/2021 10:59 | WG1700230 |
| (T) Barium-133 | 102 | | | 30.0-143 | 07/27/2021 10:59 | WG1700230 |

Radiochemistry by Method 904

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.200 | <u>U</u> | 0.313 | 0.587 | 07/27/2021 13:45 | WG1708601 |
| (T) Barium | 104 | | | 62.0-143 | 07/27/2021 13:45 | WG1708601 |
| (T) Yttrium | 112 | | | 79.0-136 | 07/27/2021 13:45 | WG1708601 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.236 | <u>U</u> | 0.442 | 0.823 | 07/27/2021 13:45 | WG1700230 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.0362 | <u>U</u> | 0.129 | 0.236 | 07/27/2021 10:59 | WG1700230 |
| (T) Barium-133 | 98.9 | | | 30.0-143 | 07/27/2021 10:59 | WG1700230 |

Method Blank (MB)

(MB) R3684922-1 07/27/21 13:45

| Analyte | MB Result pCi/l | MB Qualifier | MB MDA pCi/l |
|-------------|--------------------|--------------|-----------------|
| Radium-228 | 0.0757 | <u>U</u> | 0.422 |
| (T) Barium | 104 | | |
| (T) Yttrium | 109 | | |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1377989-18 Original Sample (OS) • Duplicate (DUP)

(OS) L1377989-18 07/27/21 13:45 • (DUP) R3684922-5 07/27/21 13:45

| Analyte | Original Result pCi/l | DUP Result pCi/l | Dilution | DUP RPD % | DUP RER | DUP Qualifier | DUP RPD Limits % | DUP RER Limit |
|-------------|--------------------------|---------------------|----------|--------------|---------|---------------|------------------------|---------------|
| Radium-228 | 1.09 | 0.418 | 1 | 88.7 | 1.14 | <u>U</u> | 20 | 3 |
| (T) Barium | 96.3 | 101 | | | | | | |
| (T) Yttrium | 111 | 108 | | | | | | |

Laboratory Control Sample (LCS)

(LCS) R3684922-2 07/27/21 13:45

| Analyte | Spike Amount pCi/l | LCS Result pCi/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|-------------|-----------------------|---------------------|---------------|------------------|---------------|
| Radium-228 | 5.00 | 5.37 | 107 | 80.0-120 | |
| (T) Barium | | | 96.7 | | |
| (T) Yttrium | | | 106 | | |

L1377989-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1377989-18 07/27/21 13:45 • (MS) R3684922-3 07/27/21 13:45 • (MSD) R3684922-4 07/27/21 13:45

| Analyte | Spike Amount pCi/l | Original Result pCi/l | MS Result pCi/l | MSD Result pCi/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | MS RER | RPD Limits % |
|-------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|--------|-----------------|
| Radium-228 | 10.0 | 1.09 | 11.9 | 10.4 | 108 | 92.9 | 1 | 70.0-130 | | | 13.3 | | 20 |
| (T) Barium | | 96.3 | | | 104 | 102 | | | | | | | |
| (T) Yttrium | | 111 | | | 112 | 98.0 | | | | | | | |

Method Blank (MB)

(MB) R3684921-1 07/27/21 10:59

| Analyte | MB Result pCi/l | MB Qualifier | MB MDA pCi/l |
|----------------|--------------------|--------------|-----------------|
| Radium-226 | 0.00785 | <u>U</u> | 0.0518 |
| (T) Barium-133 | 98.7 | | |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1373878-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1373878-04 07/27/21 10:59 • (DUP) R3684921-5 07/27/21 10:59

| Analyte | Original Result pCi/l | DUP Result pCi/l | Dilution | DUP RPD % | DUP RER | DUP Qualifier | DUP RPD Limits | DUP RER Limit |
|----------------|--------------------------|---------------------|----------|--------------|---------|---------------|-------------------|---------------|
| Radium-226 | -0.0637 | 0.0113 | 1 | 200 | 0.414 | <u>U</u> | 20 | 3 |
| (T) Barium-133 | 102 | 105 | | | | | | |

Laboratory Control Sample (LCS)

(LCS) R3684921-2 07/27/21 10:59

| Analyte | Spike Amount pCi/l | LCS Result pCi/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|----------------|-----------------------|---------------------|---------------|------------------|---------------|
| Radium-226 | 5.02 | 4.66 | 92.9 | 80.0-120 | |
| (T) Barium-133 | | | 102 | | |

L1373251-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1373251-01 07/27/21 10:59 • (MS) R3684921-3 07/27/21 10:59 • (MSD) R3684921-4 07/27/21 10:59

| Analyte | Spike Amount pCi/l | Original Result pCi/l | MS Result pCi/l | MSD Result pCi/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | MS RER | RPD Limits % |
|----------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|--------|-----------------|
| Radium-226 | 20.1 | 0.148 | 19.9 | 21.9 | 98.1 | 108 | 1 | 75.0-125 | | | 9.72 | | 20 |
| (T) Barium-133 | | 106 | | | 101 | 103 | | | | | | | |

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

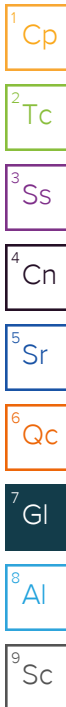
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

| | |
|------------------------------|--|
| MDA | Minimum Detectable Activity. |
| Rec. | Recovery. |
| RER | Replicate Error Ratio. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| (T) | Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation. |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Uncertainty (Radiochemistry) | Confidence level of 2 sigma. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|-----------|---|
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| U | Below Detectable Limits: Indicates that the analyte was not detected. |



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| | | | |
|-------------------------------|-------------|-----------------------------|------------------|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey–NELAP | TN002 |
| California | 2932 | New Mexico ¹ | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina ¹ | DW21704 |
| Georgia | NELAP | North Carolina ³ | 41 |
| Georgia ¹ | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio–VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LA000356 |
| Kentucky ^{1,6} | KY90010 | South Carolina | 84004002 |
| Kentucky ² | 16 | South Dakota | n/a |
| Louisiana | AI30792 | Tennessee ^{1,4} | 2006 |
| Louisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas ⁵ | LAB0152 |
| Maryland | 324 | Utah | TN000032021-11 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 110033 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 998093910 |
| Montana | CERT0086 | Wyoming | A2LA |
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 ⁵ | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA–Crypto | TN00003 | | |

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

DHL Analytical, Inc.
2300 Double Creek Drive
Round Rock, TX 78664

CHAIN-OF-CUSTODY RECORD

TEL: (512) 388-8222

FAX: (512) 388-8229

Work Order: 2106204

Subcontractor:

Pace Analytical
12065 Lebanon Rd
Mt. Juliet, TN 37122

TEL: (615) 773-5923
FAX:
Acct #: DHLRRTX

A190

L1573251

28-Jun-21

| Sample ID | Matrix | DHL# | Date Collected | Bottle Type | Requested Tests | | | | | | | |
|-----------|---------|------|-------------------|-------------|-----------------|--------------|--|--|--|--|--|-----|
| | | | | | Ra-228 | Ra-226 | | | | | | |
| | | | | | E904.0 | M7500 Ra B M | | | | | | |
| MW-8 | Aqueous | 01C | 06/25/21 09:30 AM | 1LHDPEHNO3 | | 1 | | | | | | -01 |
| MW-8 | Aqueous | 01D | 06/25/21 09:30 AM | 1LHDPEHNO3 | 1 | | | | | | | -01 |
| MW-6 | Aqueous | 02C | 06/25/21 10:55 AM | 1LHDPEHNO3 | | 1 | | | | | | -02 |
| MW-6 | Aqueous | 02D | 06/25/21 10:55 AM | 1LHDPEHNO3 | 1 | | | | | | | -02 |
| MW-11 | Aqueous | 03C | 06/25/21 12:00 PM | 1LHDPEHNO3 | | 1 | | | | | | -03 |
| MW-11 | Aqueous | 03D | 06/25/21 12:00 PM | 1LHDPEHNO3 | 1 | | | | | | | -03 |
| MW-101 | Aqueous | 04C | 06/25/21 12:10 PM | 1LHDPEHNO3 | | 1 | | | | | | -04 |
| MW-101 | Aqueous | 04D | 06/25/21 12:10 PM | 1LHDPEHNO3 | 1 | | | | | | | -04 |
| MW-9 | Aqueous | 05C | 06/25/21 01:00 PM | 1LHDPEHNO3 | | 1 | | | | | | -05 |
| MW-9 | Aqueous | 05D | 06/25/21 01:00 PM | 1LHDPEHNO3 | 1 | | | | | | | -05 |
| MW-10 | Aqueous | 06C | 06/25/21 01:50 PM | 1LHDPEHNO3 | | 1 | | | | | | -06 |
| MW-10 | Aqueous | 06D | 06/25/21 01:50 PM | 1LHDPEHNO3 | 1 | | | | | | | -06 |
| MW-5 | Aqueous | 07C | 06/25/21 03:00 PM | 1LHDPEHNO3 | | 1 | | | | | | -07 |
| MW-5 | Aqueous | 07D | 06/25/21 03:00 PM | 1LHDPEHNO3 | 1 | | | | | | | -07 |


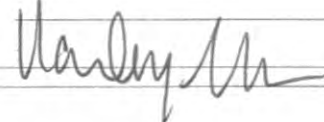
General Comments:

Please analyze these samples with Normal Turnaround Time.
Report Ra-226, Ra-228 & Combined per Specs.
Quality Control Package Needed: Standard - NELAC Rad Test compliant
Email to cac@dhlanalytical.com & dupont@dhlanalytical.com

Sample Receipt Checklist

COC Seal Present/Intact: Y N If Applicable
COC Signed/Accurate: Y N VOA Zero Headspace: Y N
Bottles arrive intact: Y N Pres. Correct/Check: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
RAD Screen <0.5 mR/hr: Y N

1118

| | | | |
|--|--------------|--|-----------|
| | Date/Time | | Date/Time |
| Relinquished by:  | 6/28/21 1800 | Received by:  | |
| Relinquished by: | | Received by: | |



November 09, 2021

Will Vienne
Golder
2201 Double Creek Dr #4004
Round Rock, Texas 78664
TEL: (512) 671-3434
FAX (512) 671-3446
RE: 2H21 Coletto Creek Power Plant

Order No.: 2109210

Dear Will Vienne:

DHL Analytical, Inc. received 10 sample(s) on 9/29/2021 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAP except where noted in the Case Narrative. All non-NELAP methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

A handwritten signature in red ink, appearing to read 'John DuPont', written in a cursive style.

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-21-27



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Eric Lau

From: John DuPont
Sent: Tuesday, May 28, 2019 11:35 AM
To: Eric Lau
Subject: FW: CCR Analysis

Appendix III Parameters:

Metals (Ca and B)
Anions (Cl, F, and SO4)
TDS

Appendix IV Parameters:

Metals (As, Ba, Be, Cd, Co, Cr, Hg, Li, Mo, Pb, Sb, Se, and Tl)
Ra-226
Ra-228

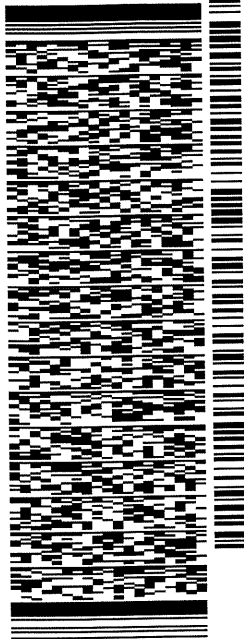
From: Vienne, Will [mailto:William_Vienne@golder.com]
Sent: Tuesday, April 09, 2019 12:48 PM
To: John DuPont <dupont@dhlanalytical.com>
Subject: CCR Analysis

ORIGIN ID: VCTA (361) 573-6442
GREG LOGAN JR.
GOLDER ASSOCIATES INC.
1501 E. MOCKINGBIRD LN
SUITE 420
VICTORIA TX 77904
UNITED STATES US

SHIP DATE: 28SEP21
ACTWGT: 20.00 LB
CAD: 2806631/NET4400
DIMS: 24x12x15 IN
BILL SENDER

TO **SAMPLE RECEIVING**
DHL ANALYTICAL
2300 DOUBLE CREEK DR

ROUND ROCK TX 78664
(512) 388-8222 REF: 19122262-B2021
INV: DEPT:



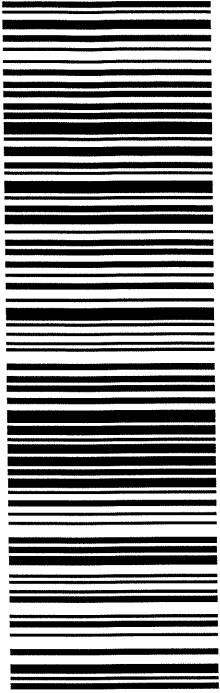
56DJ3169AFE4A

TRK# 1 of 3
0201 7748 2466 5265
MASTER

WED - 29 SEP 10:30A
PRIORITY OVERNIGHT

44 BSMA

TX-US 78664
AUS



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CUSTODY SEAL

DATE

9-28-21

SIGNATURE

GM



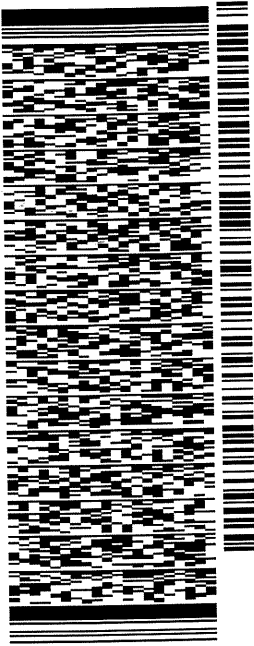
ORIGIN ID: VCTA (361) 573-6442
 GREG LOGAN JR.
 GOLDBER ASSOCIATES INC.
 1501 E. MOCKINGBIRD LN
 SUITE 420
 VICTORIA, TX 77904
 UNITED STATES US

SHIP DATE: 28SEP21
 ACTWTGT: 20.00 LB
 CAD: 2806637IN/NET4400
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BILL SENDER

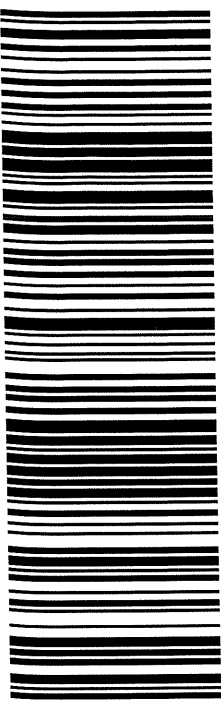
TO **SAMPLE RECEIVING**
DHL ANALYTICAL
2300 DOUBLE CREEK DR

ROUND ROCK TX 78664
 (512) 388-8222 REF: 19122262-82021
 INV. DEPT:
 PO:



2 of 3
 MP# 7748 2466 5471
 0263
 Mstr# 7748 2466 5265
 0201
44 BSMA
 TX-US
78664 AUS

WED - 29 SEP 10:30A
PRIORITY OVERNIGHT

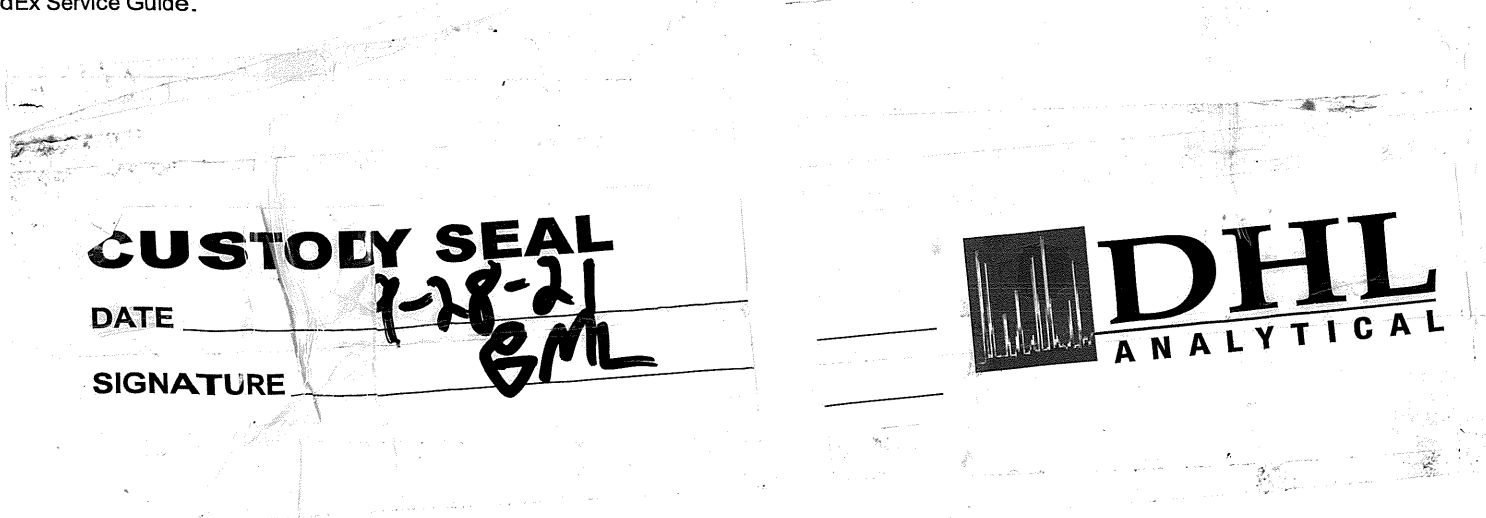


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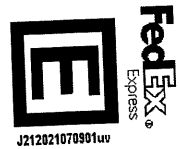
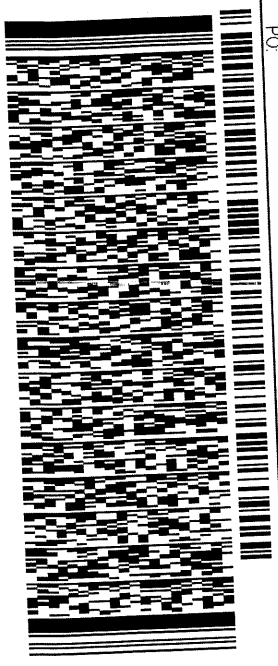


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ROUND ROCK TX 78664
 (512) 388-8222 REF: 19122262-B2021
 INV: DEPT:



3 of 3

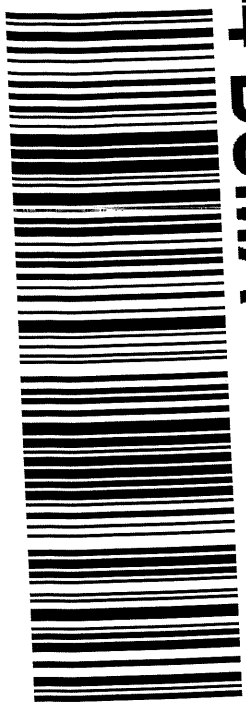
WED - 29 SEP 10:30A
PRIORITY OVERNIGHT

MPS# **7748 2466 5780**
 0263
 Mstr# 7748 2466 5265

0201

44 BSMA

TX:US
78664
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DATE

9-28-21
 WML

SIGNATURE



Sample Receipt Checklist

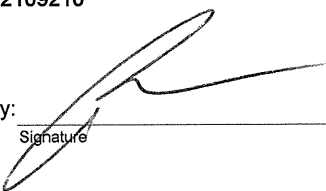
Client Name **Golder**

Date Received: **9/29/2021**

Work Order Number **2109210**

Received by: **EL**

Checklist completed by:



9/29/2021

Signature

Date

Reviewed by

SH

Initials

9/29/2021

Date

Carrier name: FedEx 1day

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No 2.8 °C / 0.9 °C / 2.1 °C
- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH<2 acceptable upon receipt? Yes No NA LOT # 13171
- Adjusted? No Checked by B.A.
- Water - pH>9 (S) or pH>10 (CN) acceptable upon receipt? Yes No NA LOT #
- Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted: _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action: _____

| Laboratory Name: DHL Analytical, Inc. | | | | | | | |
|---|----------------|--|-----|---|-----------------|-----------------|------------------|
| Laboratory Review Checklist: Reportable Data | | | | | | | |
| Project Name: 2H21 Coleta Creek Power Plant | | | | LRC Date: 11/9/21 | | | |
| Reviewer Name: Carlos Castro | | | | Laboratory Work Order: 2109210 | | | |
| Prep Batch Number(s): See Prep Dates Report | | | | Run Batch: See Analytical Dates Report | | | |
| # ¹ | A ² | Description | Yes | No | NA ³ | NR ⁴ | ER# ⁵ |
| R1 | OI | Chain-of-Custody (C-O-C) | | | | | |
| | | 1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt? 2) Were all departures from standard conditions described in an exception report? | X | | | X | |
| R2 | OI | Sample and Quality Control (QC) Identification | | | | | |
| | | 1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers? 2) Are all laboratory ID numbers cross-referenced to the corresponding QC data? | X | | | | |
| R3 | OI | Test Reports | | | | | |
| | | 1) Were all samples prepared and analyzed within holding times? 2) Other than those results < MQL, were all other raw values bracketed by calibration standards? 3) Were calculations checked by a peer or supervisor? 4) Were all analyte identifications checked by a peer or supervisor? 5) Were sample detection limits reported for all analytes not detected? 6) Were all results for soil and sediment samples reported on a dry weight basis? 7) Were % moisture (or solids) reported for all soil and sediment samples? 8) Were bulk soils/solids samples for volatile analysis extracted with methanol per EPA Method 5035? 9) If required for the project, TICs reported? | X | | | | |
| R4 | O | Surrogate Recovery Data | | | | | |
| | | 1) Were surrogates added prior to extraction? 2) Were surrogate percent recoveries in all samples within the laboratory QC limits? | | | | X | |
| R5 | OI | Test Reports/Summary Forms for Blank Samples | | | | | |
| | | 1) Were appropriate type(s) of blanks analyzed? 2) Were blanks analyzed at the appropriate frequency? 3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures? 4) Were blank concentrations < MDL? 5) For analyte(s) detected in a blank sample, was the concentration, unadjusted for sample specific factors, in all associated field samples, greater than 10 times the concentration in the blank sample? | X | | | | |
| R6 | OI | Laboratory Control Samples (LCS): | | | | | |
| | | 1) Were all COCs included in the LCS? 2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps? 3) Were LCSs analyzed at the required frequency? 4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits? 5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs? 6) Was the LCSD RPD within QC limits (if applicable)? | X | | | | |
| R7 | OI | Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data | | | | | |
| | | 1) Were the project/method specified analytes included in the MS and MSD? 2) Were MS/MSD analyzed at the appropriate frequency? 3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits? 4) Were MS/MSD RPDs within laboratory QC limits? | X | | | | |
| R8 | OI | Analytical Duplicate Data | | | | | |
| | | 1) Were appropriate analytical duplicates analyzed for each matrix? 2) Were analytical duplicates analyzed at the appropriate frequency? 3) Were RPDs or relative standard deviations within the laboratory QC limits? | X | | | | |
| R9 | OI | Method Quantitation Limits (MQLs): | | | | | |
| | | 1) Are the MQLs for each method analyte included in the laboratory data package? 2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard? 3) Are unadjusted MQLs and DCSs included in the laboratory data package? | X | | | | |
| R10 | OI | Other Problems/Anomalies | | | | | |
| | | 1) Are all known problems/anomalies/special conditions noted in this LRC and ER? 2) Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results? 3) Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package? | X | | | | |

| Laboratory Name: DHL Analytical, Inc. | | | | | | | |
|---|----------------|---|-----|---|-----------------|-----------------|------------------|
| Laboratory Review Checklist (continued): Supporting Data | | | | | | | |
| Project Name: 2H21 Coletto Creek Power Plant | | | | LRC Date: 11/9/21 | | | |
| Reviewer Name: Carlos Castro | | | | Laboratory Work Order: 2109210 | | | |
| Prep Batch Number(s): See Prep Dates Report | | | | Run Batch: See Analytical Dates Report | | | |
| # ¹ | A ² | Description | Yes | No | NA ³ | NR ⁴ | ER# ⁵ |
| S1 | OI | Initial Calibration (ICAL) | | | | | |
| | | 1) Were response factors and/or relative response factors for each analyte within QC limits? | X | | | | |
| | | 2) Were percent RSDs or correlation coefficient criteria met? | X | | | | |
| | | 3) Was the number of standards recommended in the method used for all analytes? | X | | | | |
| | | 4) Were all points generated between the lowest and highest standard used to calculate the curve? | X | | | | |
| | | 5) Are ICAL data available for all instruments used? | X | | | | |
| | | 6) Has the initial calibration curve been verified using an appropriate second source standard? | X | | | | |
| S2 | OI | Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB): | | | | | |
| | | 1) Was the CCV analyzed at the method-required frequency? | X | | | | |
| | | 2) Were percent differences for each analyte within the method-required QC limits? | X | | | | |
| | | 3) Was the ICAL curve verified for each analyte? | X | | | | |
| | | 4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL? | X | | | | |
| S3 | O | Mass Spectral Tuning: | | | | | |
| | | 1) Was the appropriate compound for the method used for tuning? | X | | | | |
| | | 2) Were ion abundance data within the method-required QC limits? | X | | | | |
| S4 | O | Internal Standards (IS): | | | | | |
| | | 1) Were IS area counts and retention times within the method-required QC limits? | X | | | | |
| S5 | OI | Raw Data (NELAC Section 5.5.10) | | | | | |
| | | 1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst? | X | | | | |
| | | 2) Were data associated with manual integrations flagged on the raw data? | X | | | | |
| S6 | O | Dual Column Confirmation | | | | | |
| | | 1) Did dual column confirmation results meet the method-required QC? | | | X | | |
| S7 | O | Tentatively Identified Compounds (TICs): | | | | | |
| | | 1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks? | | | X | | |
| S8 | I | Interference Check Sample (ICS) Results: | | | | | |
| | | 1) Were percent recoveries within method QC limits? | X | | | | |
| S9 | I | Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions | | | | | |
| | | 1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method? | | X | | | S9-01 |
| S10 | OI | Method Detection Limit (MDL) Studies | | | | | |
| | | 1) Was a MDL study performed for each reported analyte? | X | | | | |
| | | 2) Is the MDL either adjusted or supported by the analysis of DCSs? | X | | | | |
| S11 | OI | Proficiency Test Reports: | | | | | |
| | | 1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies? | X | | | | |
| S12 | OI | Standards Documentation | | | | | |
| | | 1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources? | X | | | | |
| S13 | OI | Compound/Analyte Identification Procedures | | | | | |
| | | 1) Are the procedures for compound/analyte identification documented? | X | | | | |
| S14 | OI | Demonstration of Analyst Competency (DOC) | | | | | |
| | | 1) Was DOC conducted consistent with NELAC Chapter 5 – Appendix C? | X | | | | |
| | | 2) Is documentation of the analyst's competency up-to-date and on file? | X | | | | |
| S15 | OI | Verification/Validation Documentation for Methods (NELAC Chapter 5) | | | | | |
| | | 1) Are all the methods used to generate the data documented, verified, and validated, where applicable? | X | | | | |
| S16 | OI | Laboratory Standard Operating Procedures (SOPs): | | | | | |
| | | 1) Are laboratory SOPs current and on file for each method performed? | X | | | | |

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable.

4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Data Package Signature Page – RG-366/TRRP-13

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC Chapter 5,
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) The amount of analyte measured in the duplicate,
 - b) The calculated RPD, and
 - c) The laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
- R10 Other problems or anomalies.

The Exception Report for each “No” or “Not Reviewed (NR)” item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory is not accredited under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information or data affecting the quality of the data has been knowingly withheld.

This laboratory was last inspected by TCEQ on February 23-26 2021. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Name: John DuPont
Official Title: General Manager


Signature

11/09/21
Date

Name: Dr. Derhsing Luu
Official Title: Technical Director

CLIENT: Golder
Project: 2H21 Coleta Creek Power Plant
Lab Order: 2109210

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method SW6020B - Metals Analysis
Method SW7470A - Mercury Analysis
Method E300 - Anions Analysis
Method M2540C - TDS Analysis
Sub-contract - Radium-228 and Radium-226 analyses by methods E904 and SM 7500 Ra B M.
Analyzed at Pace Analytical.

Exception Report R1-01

The samples were received and log-in performed on 9/29/21. A total of 10 samples were received. The samples arrived in good condition and were properly packaged.

Exception Report R7-03

For Anions analysis performed on 10/5/21 the matrix spikes and matrix spike duplicate recoveries (2109210-01 MS/MSD & 2109228-07 MS) were slightly below control limits for Chloride. These are flagged accordingly in the QC summary report. The sample selected for the matrix spike and matrix spike duplicate (2109210-01 MS/MSD) was from this work order. The sample selected for the matrix spike and matrix spike duplicate (2109228-07 MS/MSD) was not from this work order. The LCS was within control limits for this analyte. No further corrective actions were taken.

For Metals analysis performed on 10/4/21 the matrix spike and matrix spike duplicate recoveries were out of control limits for Boron. These are flagged accordingly. The sample selected for the matrix spike and matrix spike duplicate was not from this work order. The LCS was within control limits for this analyte. No further corrective actions were taken.

Exception Report S9-01

For Metals analysis performed on 10/1/21 the PDS recovery was slightly below control limits for Calcium. This is flagged accordingly in the QC summary report. The serial dilution was within control limits for this analyte. No further corrective actions were taken.

CLIENT: Golder
Project: 2H21 Coletto Creek Power Plant
Lab Order: 2109210

Work Order Sample Summary

| Lab Smp ID | Client Sample ID | Tag Number | Date Collected | Date Recved |
|-------------------|-------------------------|-------------------|-----------------------|--------------------|
| 2109210-01 | BV-5 | | 09/28/21 08:20 AM | 9/29/2021 |
| 2109210-02 | MW-4 | | 09/28/21 09:20 AM | 9/29/2021 |
| 2109210-03 | BV-21 | | 09/28/21 10:20 AM | 9/29/2021 |
| 2109210-04 | Dup 101 | | 09/28/21 10:30 AM | 9/29/2021 |
| 2109210-05 | MW-8 | | 09/28/21 11:20 AM | 9/29/2021 |
| 2109210-06 | MW-6 | | 09/28/21 12:15 PM | 9/29/2021 |
| 2109210-07 | MW-11 | | 09/28/21 01:15 PM | 9/29/2021 |
| 2109210-08 | MW-9 | | 09/28/21 02:00 PM | 9/29/2021 |
| 2109210-09 | MW-5 | | 09/28/21 02:45 PM | 9/29/2021 |
| 2109210-10 | MW-10 | | 09/28/21 03:25 PM | 9/29/2021 |

Lab Order: 2109210
 Client: Golder
 Project: 2H21 Coletto Creek Power Plant

PREP DATES REPORT

| Sample ID | Client Sample ID | Collection Date | Matrix | Test Number | Test Name | Prep Date | Batch ID |
|-------------|------------------|-------------------|---------|-------------|-------------------------|-------------------|----------|
| 2109210-01A | BV-5 | 09/28/21 08:20 AM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 09/30/21 09:32 AM | 102242 |
| | BV-5 | 09/28/21 08:20 AM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 09/30/21 09:32 AM | 102242 |
| | BV-5 | 09/28/21 08:20 AM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 09/30/21 09:32 AM | 102242 |
| | BV-5 | 09/28/21 08:20 AM | Aqueous | SW7470A | Mercury Aq Prep | 10/04/21 09:06 AM | 102255 |
| 2109210-01B | BV-5 | 09/28/21 08:20 AM | Aqueous | E300 | Anion Preparation | 10/05/21 01:47 PM | 102275 |
| | BV-5 | 09/28/21 08:20 AM | Aqueous | E300 | Anion Preparation | 10/05/21 01:47 PM | 102275 |
| | BV-5 | 09/28/21 08:20 AM | Aqueous | M2540C | TDS Preparation | 09/30/21 09:19 AM | 102241 |
| 2109210-02A | MW-4 | 09/28/21 09:20 AM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 09/30/21 09:32 AM | 102242 |
| | MW-4 | 09/28/21 09:20 AM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 09/30/21 09:32 AM | 102242 |
| | MW-4 | 09/28/21 09:20 AM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 09/30/21 09:32 AM | 102242 |
| | MW-4 | 09/28/21 09:20 AM | Aqueous | SW7470A | Mercury Aq Prep | 10/04/21 09:06 AM | 102255 |
| 2109210-02B | MW-4 | 09/28/21 09:20 AM | Aqueous | E300 | Anion Preparation | 10/05/21 01:47 PM | 102275 |
| | MW-4 | 09/28/21 09:20 AM | Aqueous | E300 | Anion Preparation | 10/05/21 01:47 PM | 102275 |
| | MW-4 | 09/28/21 09:20 AM | Aqueous | M2540C | TDS Preparation | 09/30/21 09:19 AM | 102241 |
| 2109210-03A | BV-21 | 09/28/21 10:20 AM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 09/30/21 09:32 AM | 102242 |
| | BV-21 | 09/28/21 10:20 AM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 09/30/21 09:32 AM | 102242 |
| | BV-21 | 09/28/21 10:20 AM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 09/30/21 09:32 AM | 102242 |
| | BV-21 | 09/28/21 10:20 AM | Aqueous | SW7470A | Mercury Aq Prep | 10/04/21 09:06 AM | 102255 |
| 2109210-03B | BV-21 | 09/28/21 10:20 AM | Aqueous | E300 | Anion Preparation | 10/05/21 01:47 PM | 102275 |
| | BV-21 | 09/28/21 10:20 AM | Aqueous | E300 | Anion Preparation | 10/05/21 01:47 PM | 102298 |
| | BV-21 | 09/28/21 10:20 AM | Aqueous | M2540C | TDS Preparation | 09/30/21 09:19 AM | 102241 |
| 2109210-04A | Dup 101 | 09/28/21 10:30 AM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 09/30/21 09:32 AM | 102242 |
| | Dup 101 | 09/28/21 10:30 AM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 09/30/21 09:32 AM | 102242 |
| | Dup 101 | 09/28/21 10:30 AM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 09/30/21 09:32 AM | 102242 |
| | Dup 101 | 09/28/21 10:30 AM | Aqueous | SW7470A | Mercury Aq Prep | 10/04/21 09:06 AM | 102255 |
| 2109210-04B | Dup 101 | 09/28/21 10:30 AM | Aqueous | E300 | Anion Preparation | 10/05/21 01:47 PM | 102275 |
| | Dup 101 | 09/28/21 10:30 AM | Aqueous | E300 | Anion Preparation | 10/05/21 01:47 PM | 102275 |
| | Dup 101 | 09/28/21 10:30 AM | Aqueous | M2540C | TDS Preparation | 09/30/21 09:19 AM | 102241 |

Lab Order: 2109210
 Client: Golder
 Project: 2H21 Coletto Creek Power Plant

PREP DATES REPORT

| Sample ID | Client Sample ID | Collection Date | Matrix | Test Number | Test Name | Prep Date | Batch ID |
|-------------|------------------|-------------------|---------|-------------|-------------------------|-------------------|----------|
| 2109210-05A | MW-8 | 09/28/21 11:20 AM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 09/30/21 09:32 AM | 102242 |
| | MW-8 | 09/28/21 11:20 AM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 09/30/21 09:32 AM | 102242 |
| | MW-8 | 09/28/21 11:20 AM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 09/30/21 09:32 AM | 102242 |
| | MW-8 | 09/28/21 11:20 AM | Aqueous | SW7470A | Mercury Aq Prep | 10/04/21 09:06 AM | 102255 |
| 2109210-05B | MW-8 | 09/28/21 11:20 AM | Aqueous | E300 | Anion Preparation | 10/05/21 01:47 PM | 102275 |
| | MW-8 | 09/28/21 11:20 AM | Aqueous | E300 | Anion Preparation | 10/05/21 01:47 PM | 102275 |
| | MW-8 | 09/28/21 11:20 AM | Aqueous | M2540C | TDS Preparation | 09/30/21 09:19 AM | 102241 |
| 2109210-06A | MW-6 | 09/28/21 12:15 PM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 09/30/21 09:32 AM | 102242 |
| | MW-6 | 09/28/21 12:15 PM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 09/30/21 09:32 AM | 102242 |
| | MW-6 | 09/28/21 12:15 PM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 09/30/21 09:32 AM | 102242 |
| | MW-6 | 09/28/21 12:15 PM | Aqueous | SW7470A | Mercury Aq Prep | 10/04/21 09:06 AM | 102255 |
| 2109210-06B | MW-6 | 09/28/21 12:15 PM | Aqueous | E300 | Anion Preparation | 10/05/21 01:47 PM | 102275 |
| | MW-6 | 09/28/21 12:15 PM | Aqueous | E300 | Anion Preparation | 10/05/21 01:47 PM | 102275 |
| | MW-6 | 09/28/21 12:15 PM | Aqueous | M2540C | TDS Preparation | 09/30/21 09:19 AM | 102241 |
| 2109210-07A | MW-11 | 09/28/21 01:15 PM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 09/30/21 09:32 AM | 102242 |
| | MW-11 | 09/28/21 01:15 PM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 09/30/21 09:32 AM | 102242 |
| | MW-11 | 09/28/21 01:15 PM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 09/30/21 09:32 AM | 102242 |
| | MW-11 | 09/28/21 01:15 PM | Aqueous | SW7470A | Mercury Aq Prep | 10/04/21 09:06 AM | 102255 |
| 2109210-07B | MW-11 | 09/28/21 01:15 PM | Aqueous | E300 | Anion Preparation | 10/05/21 01:47 PM | 102275 |
| | MW-11 | 09/28/21 01:15 PM | Aqueous | E300 | Anion Preparation | 10/05/21 01:47 PM | 102275 |
| | MW-11 | 09/28/21 01:15 PM | Aqueous | M2540C | TDS Preparation | 09/30/21 09:19 AM | 102241 |
| 2109210-08A | MW-9 | 09/28/21 02:00 PM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 09/30/21 09:32 AM | 102242 |
| | MW-9 | 09/28/21 02:00 PM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 09/30/21 09:32 AM | 102242 |
| | MW-9 | 09/28/21 02:00 PM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 09/30/21 09:32 AM | 102242 |
| | MW-9 | 09/28/21 02:00 PM | Aqueous | SW7470A | Mercury Aq Prep | 10/04/21 09:06 AM | 102255 |
| 2109210-08B | MW-9 | 09/28/21 02:00 PM | Aqueous | E300 | Anion Preparation | 10/05/21 01:47 PM | 102275 |
| | MW-9 | 09/28/21 02:00 PM | Aqueous | E300 | Anion Preparation | 10/05/21 01:47 PM | 102275 |
| | MW-9 | 09/28/21 02:00 PM | Aqueous | M2540C | TDS Preparation | 09/30/21 09:19 AM | 102241 |

Lab Order: 2109210
 Client: Golder
 Project: 2H21 Coletto Creek Power Plant

PREP DATES REPORT

| Sample ID | Client Sample ID | Collection Date | Matrix | Test Number | Test Name | Prep Date | Batch ID |
|-------------|------------------|-------------------|---------|-------------|-------------------------|-------------------|----------|
| 2109210-09A | MW-5 | 09/28/21 02:45 PM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 09/30/21 09:32 AM | 102242 |
| | MW-5 | 09/28/21 02:45 PM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 09/30/21 09:32 AM | 102242 |
| | MW-5 | 09/28/21 02:45 PM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 09/30/21 09:32 AM | 102242 |
| | MW-5 | 09/28/21 02:45 PM | Aqueous | SW7470A | Mercury Aq Prep | 10/04/21 09:06 AM | 102255 |
| 2109210-09B | MW-5 | 09/28/21 02:45 PM | Aqueous | E300 | Anion Preparation | 10/05/21 01:47 PM | 102275 |
| | MW-5 | 09/28/21 02:45 PM | Aqueous | E300 | Anion Preparation | 10/05/21 01:47 PM | 102275 |
| | MW-5 | 09/28/21 02:45 PM | Aqueous | M2540C | TDS Preparation | 09/30/21 09:19 AM | 102241 |
| 2109210-10A | MW-10 | 09/28/21 03:25 PM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 09/30/21 09:32 AM | 102242 |
| | MW-10 | 09/28/21 03:25 PM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 09/30/21 09:32 AM | 102242 |
| | MW-10 | 09/28/21 03:25 PM | Aqueous | SW3005A | Aq Prep Metals : ICP-MS | 09/30/21 09:32 AM | 102242 |
| | MW-10 | 09/28/21 03:25 PM | Aqueous | SW7470A | Mercury Aq Prep | 10/04/21 09:06 AM | 102255 |
| 2109210-10B | MW-10 | 09/28/21 03:25 PM | Aqueous | E300 | Anion Preparation | 10/05/21 01:47 PM | 102275 |
| | MW-10 | 09/28/21 03:25 PM | Aqueous | E300 | Anion Preparation | 10/05/21 01:47 PM | 102275 |
| | MW-10 | 09/28/21 03:25 PM | Aqueous | M2540C | TDS Preparation | 09/30/21 09:19 AM | 102241 |

Lab Order: 2109210
 Client: Golder
 Project: 2H21 Coletto Creek Power Plant

ANALYTICAL DATES REPORT

| Sample ID | Client Sample ID | Matrix | Test Number | Test Name | Batch ID | Dilution | Analysis Date | Run ID |
|-------------|------------------|---------|-------------|------------------------------|----------|----------|-------------------|-----------------------|
| 2109210-01A | BV-5 | Aqueous | SW7470A | Mercury Total: Aqueous | 102255 | 1 | 10/07/21 02:46 PM | CETAC2_HG_211007 C |
| | BV-5 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 102242 | 10 | 10/04/21 11:29 AM | ICP-MS4_211004A |
| | BV-5 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 102242 | 1 | 10/04/21 12:15 PM | ICP-MS4_211004A |
| | BV-5 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 102242 | 1 | 10/01/21 11:14 AM | ICP-MS5_211001A |
| 2109210-01B | BV-5 | Aqueous | E300 | Anions by IC method - Water | 102275 | 10 | 10/05/21 10:43 PM | IC4_211005B |
| | BV-5 | Aqueous | E300 | Anions by IC method - Water | 102275 | 1 | 10/06/21 05:03 AM | IC4_211005B |
| | BV-5 | Aqueous | M2540C | Total Dissolved Solids | 102241 | 1 | 09/30/21 04:05 PM | WC_210930E |
| 2109210-02A | MW-4 | Aqueous | SW7470A | Mercury Total: Aqueous | 102255 | 1 | 10/07/21 02:49 PM | CETAC2_HG_211007 C |
| | MW-4 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 102242 | 1 | 10/01/21 11:16 AM | ICP-MS5_211001A |
| | MW-4 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 102242 | 10 | 10/04/21 11:31 AM | ICP-MS4_211004A |
| | MW-4 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 102242 | 1 | 10/04/21 11:56 AM | ICP-MS4_211004A |
| 2109210-02B | MW-4 | Aqueous | E300 | Anions by IC method - Water | 102275 | 10 | 10/05/21 11:40 PM | IC4_211005B |
| | MW-4 | Aqueous | E300 | Anions by IC method - Water | 102275 | 1 | 10/06/21 05:22 AM | IC4_211005B |
| | MW-4 | Aqueous | M2540C | Total Dissolved Solids | 102241 | 1 | 09/30/21 04:05 PM | WC_210930E |
| 2109210-03A | BV-21 | Aqueous | SW7470A | Mercury Total: Aqueous | 102255 | 1 | 10/07/21 02:51 PM | CETAC2_HG_211007 C |
| | BV-21 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 102242 | 1 | 10/01/21 11:19 AM | ICP-MS5_211001A |
| | BV-21 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 102242 | 1 | 10/04/21 11:58 AM | ICP-MS4_211004A |
| | BV-21 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 102242 | 10 | 10/04/21 11:33 AM | ICP-MS4_211004A |
| 2109210-03B | BV-21 | Aqueous | E300 | Anions by IC method - Water | 102275 | 1 | 10/06/21 05:41 AM | IC4_211005B |
| | BV-21 | Aqueous | E300 | Anions by IC method - Water | 102298 | 10 | 10/06/21 09:56 PM | IC2_211006B |
| | BV-21 | Aqueous | M2540C | Total Dissolved Solids | 102241 | 1 | 09/30/21 04:05 PM | WC_210930E |
| 2109210-04A | Dup 101 | Aqueous | SW7470A | Mercury Total: Aqueous | 102255 | 1 | 10/07/21 02:53 PM | CETAC2_HG_211007 C |
| | Dup 101 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 102242 | 10 | 10/04/21 11:35 AM | ICP-MS4_211004A |
| | Dup 101 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 102242 | 1 | 10/04/21 12:00 PM | ICP-MS4_211004A |
| | Dup 101 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 102242 | 1 | 10/01/21 11:22 AM | ICP-MS5_211001A |
| 2109210-04B | Dup 101 | Aqueous | E300 | Anions by IC method - Water | 102275 | 10 | 10/05/21 11:59 PM | IC4_211005B |

Lab Order: 2109210
 Client: Golder
 Project: 2H21 Coletto Creek Power Plant

ANALYTICAL DATES REPORT

| Sample ID | Client Sample ID | Matrix | Test Number | Test Name | Batch ID | Dilution | Analysis Date | Run ID |
|-------------|------------------|---------|-------------|------------------------------|----------|----------|-------------------|-----------------------|
| 2109210-04B | Dup 101 | Aqueous | E300 | Anions by IC method - Water | 102275 | 1 | 10/06/21 06:00 AM | IC4_211005B |
| | Dup 101 | Aqueous | M2540C | Total Dissolved Solids | 102241 | 1 | 09/30/21 04:05 PM | WC_210930E |
| 2109210-05A | MW-8 | Aqueous | SW7470A | Mercury Total: Aqueous | 102255 | 1 | 10/07/21 02:56 PM | CETAC2_HG_211007 C |
| | MW-8 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 102242 | 10 | 10/04/21 11:37 AM | ICP-MS4_211004A |
| | MW-8 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 102242 | 1 | 10/04/21 12:17 PM | ICP-MS4_211004A |
| | MW-8 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 102242 | 1 | 10/01/21 11:24 AM | ICP-MS5_211001A |
| 2109210-05B | MW-8 | Aqueous | E300 | Anions by IC method - Water | 102275 | 1 | 10/06/21 06:19 AM | IC4_211005B |
| | MW-8 | Aqueous | E300 | Anions by IC method - Water | 102275 | 10 | 10/06/21 12:18 AM | IC4_211005B |
| | MW-8 | Aqueous | M2540C | Total Dissolved Solids | 102241 | 1 | 09/30/21 04:05 PM | WC_210930E |
| 2109210-06A | MW-6 | Aqueous | SW7470A | Mercury Total: Aqueous | 102255 | 1 | 10/07/21 03:02 PM | CETAC2_HG_211007 C |
| | MW-6 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 102242 | 10 | 10/04/21 11:39 AM | ICP-MS4_211004A |
| | MW-6 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 102242 | 1 | 10/04/21 12:19 PM | ICP-MS4_211004A |
| | MW-6 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 102242 | 1 | 10/01/21 11:43 AM | ICP-MS5_211001A |
| 2109210-06B | MW-6 | Aqueous | E300 | Anions by IC method - Water | 102275 | 10 | 10/06/21 12:37 AM | IC4_211005B |
| | MW-6 | Aqueous | E300 | Anions by IC method - Water | 102275 | 1 | 10/06/21 06:38 AM | IC4_211005B |
| | MW-6 | Aqueous | M2540C | Total Dissolved Solids | 102241 | 1 | 09/30/21 04:05 PM | WC_210930E |
| 2109210-07A | MW-11 | Aqueous | SW7470A | Mercury Total: Aqueous | 102255 | 1 | 10/07/21 03:05 PM | CETAC2_HG_211007 C |
| | MW-11 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 102242 | 1 | 10/01/21 11:45 AM | ICP-MS5_211001A |
| | MW-11 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 102242 | 10 | 10/04/21 11:41 AM | ICP-MS4_211004A |
| | MW-11 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 102242 | 1 | 10/04/21 12:21 PM | ICP-MS4_211004A |
| 2109210-07B | MW-11 | Aqueous | E300 | Anions by IC method - Water | 102275 | 10 | 10/06/21 12:56 AM | IC4_211005B |
| | MW-11 | Aqueous | E300 | Anions by IC method - Water | 102275 | 1 | 10/06/21 06:57 AM | IC4_211005B |
| | MW-11 | Aqueous | M2540C | Total Dissolved Solids | 102241 | 1 | 09/30/21 04:05 PM | WC_210930E |
| 2109210-08A | MW-9 | Aqueous | SW7470A | Mercury Total: Aqueous | 102255 | 1 | 10/07/21 03:07 PM | CETAC2_HG_211007 C |
| | MW-9 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 102242 | 1 | 10/01/21 11:48 AM | ICP-MS5_211001A |
| | MW-9 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 102242 | 1 | 10/04/21 12:23 PM | ICP-MS4_211004A |

Lab Order: 2109210
Client: Golder
Project: 2H21 Coletto Creek Power Plant

ANALYTICAL DATES REPORT

| Sample ID | Client Sample ID | Matrix | Test Number | Test Name | Batch ID | Dilution | Analysis Date | Run ID |
|-------------|------------------|---------|-------------|------------------------------|----------|----------|-------------------|-----------------------|
| 2109210-08A | MW-9 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 102242 | 10 | 10/04/21 11:43 AM | ICP-MS4_211004A |
| 2109210-08B | MW-9 | Aqueous | E300 | Anions by IC method - Water | 102275 | 1 | 10/06/21 07:16 AM | IC4_211005B |
| | MW-9 | Aqueous | E300 | Anions by IC method - Water | 102275 | 10 | 10/06/21 01:15 AM | IC4_211005B |
| | MW-9 | Aqueous | M2540C | Total Dissolved Solids | 102241 | 1 | 09/30/21 04:05 PM | WC_210930E |
| 2109210-09A | MW-5 | Aqueous | SW7470A | Mercury Total: Aqueous | 102255 | 1 | 10/07/21 03:09 PM | CETAC2_HG_211007 C |
| | MW-5 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 102242 | 10 | 10/04/21 11:45 AM | ICP-MS4_211004A |
| | MW-5 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 102242 | 1 | 10/04/21 12:02 PM | ICP-MS4_211004A |
| | MW-5 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 102242 | 1 | 10/01/21 11:50 AM | ICP-MS5_211001A |
| 2109210-09B | MW-5 | Aqueous | E300 | Anions by IC method - Water | 102275 | 10 | 10/06/21 01:34 AM | IC4_211005B |
| | MW-5 | Aqueous | E300 | Anions by IC method - Water | 102275 | 1 | 10/06/21 08:51 AM | IC4_211005B |
| | MW-5 | Aqueous | M2540C | Total Dissolved Solids | 102241 | 1 | 09/30/21 04:05 PM | WC_210930E |
| 2109210-10A | MW-10 | Aqueous | SW7470A | Mercury Total: Aqueous | 102255 | 1 | 10/07/21 03:11 PM | CETAC2_HG_211007 C |
| | MW-10 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 102242 | 10 | 10/04/21 11:47 AM | ICP-MS4_211004A |
| | MW-10 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 102242 | 1 | 10/04/21 12:25 PM | ICP-MS4_211004A |
| | MW-10 | Aqueous | SW6020B | Trace Metals: ICP-MS - Water | 102242 | 1 | 10/01/21 11:53 AM | ICP-MS5_211001A |
| 2109210-10B | MW-10 | Aqueous | E300 | Anions by IC method - Water | 102275 | 10 | 10/06/21 01:53 AM | IC4_211005B |
| | MW-10 | Aqueous | E300 | Anions by IC method - Water | 102275 | 1 | 10/06/21 09:10 AM | IC4_211005B |
| | MW-10 | Aqueous | M2540C | Total Dissolved Solids | 102241 | 1 | 09/30/21 04:05 PM | WC_210930E |

DHL Analytical, Inc.

Date: 09-Nov-21

CLIENT: Golder
Project: 2H21 Coletto Creek Power Plant
Project No: 19122262-B2021
Lab Order: 2109210

Client Sample ID: BV-5
Lab ID: 2109210-01
Collection Date: 09/28/21 08:20 AM
Matrix: AQUEOUS

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|--|------------|----------------|----------|------|---------------------|----|-------------------|
| TRACE METALS: ICP-MS - WATER | | SW6020B | | | Analyst: SP | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 10/01/21 11:14 AM |
| Arsenic | 0.00868 | 0.00200 | 0.00500 | | mg/L | 1 | 10/01/21 11:14 AM |
| Barium | 0.0365 | 0.00300 | 0.0100 | | mg/L | 1 | 10/01/21 11:14 AM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 10/01/21 11:14 AM |
| Boron | 1.12 | 0.100 | 0.300 | | mg/L | 10 | 10/04/21 11:29 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 10/01/21 11:14 AM |
| Calcium | 75.6 | 1.00 | 3.00 | | mg/L | 10 | 10/04/21 11:29 AM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 10/01/21 11:14 AM |
| Cobalt | 0.0433 | 0.00300 | 0.00500 | | mg/L | 1 | 10/01/21 11:14 AM |
| Lead | 0.000415 | 0.000300 | 0.00100 | J | mg/L | 1 | 10/01/21 11:14 AM |
| Lithium | 0.0194 | 0.00500 | 0.0100 | | mg/L | 1 | 10/04/21 12:15 PM |
| Molybdenum | 0.0102 | 0.00200 | 0.00500 | | mg/L | 1 | 10/01/21 11:14 AM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 10/01/21 11:14 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 10/01/21 11:14 AM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | Analyst: JVR | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 10/07/21 02:46 PM |
| ANIONS BY IC METHOD - WATER | | E300 | | | Analyst: BM | | |
| Chloride | 146 | 3.00 | 10.0 | | mg/L | 10 | 10/05/21 10:43 PM |
| Fluoride | 0.687 | 0.100 | 0.400 | | mg/L | 1 | 10/06/21 05:03 AM |
| Sulfate | 169 | 10.0 | 30.0 | | mg/L | 10 | 10/05/21 10:43 PM |
| TOTAL DISSOLVED SOLIDS | | M2540C | | | Analyst: JS | | |
| Total Dissolved Solids (Residue, Filterable) | 925 | 10.0 | 10.0 | | mg/L | 1 | 09/30/21 04:05 PM |

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 09-Nov-21

CLIENT: Golder
Project: 2H21 Coleta Creek Power Plant
Project No: 19122262-B2021
Lab Order: 2109210

Client Sample ID: MW-4
Lab ID: 2109210-02
Collection Date: 09/28/21 09:20 AM
Matrix: AQUEOUS

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|--|------------|----------------|----------|---------------------|-------|----|-------------------|
| TRACE METALS: ICP-MS - WATER | | SW6020B | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 10/01/21 11:16 AM |
| Arsenic | 0.00856 | 0.00200 | 0.00500 | | mg/L | 1 | 10/01/21 11:16 AM |
| Barium | 0.0543 | 0.00300 | 0.0100 | | mg/L | 1 | 10/01/21 11:16 AM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 10/01/21 11:16 AM |
| Boron | 0.288 | 0.0100 | 0.0300 | | mg/L | 1 | 10/04/21 11:56 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 10/01/21 11:16 AM |
| Calcium | 88.3 | 1.00 | 3.00 | | mg/L | 10 | 10/04/21 11:31 AM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 10/01/21 11:16 AM |
| Cobalt | 0.0104 | 0.00300 | 0.00500 | | mg/L | 1 | 10/01/21 11:16 AM |
| Lead | 0.00139 | 0.000300 | 0.00100 | | mg/L | 1 | 10/01/21 11:16 AM |
| Lithium | 0.0181 | 0.00500 | 0.0100 | | mg/L | 1 | 10/04/21 11:56 AM |
| Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 10/01/21 11:16 AM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 10/01/21 11:16 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 10/01/21 11:16 AM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: JVR | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 10/07/21 02:49 PM |
| ANIONS BY IC METHOD - WATER | | E300 | | Analyst: BM | | | |
| Chloride | 98.7 | 3.00 | 10.0 | | mg/L | 10 | 10/05/21 11:40 PM |
| Fluoride | 0.647 | 0.100 | 0.400 | | mg/L | 1 | 10/06/21 05:22 AM |
| Sulfate | 164 | 10.0 | 30.0 | | mg/L | 10 | 10/05/21 11:40 PM |
| TOTAL DISSOLVED SOLIDS | | M2540C | | Analyst: JS | | | |
| Total Dissolved Solids (Residue, Filterable) | 714 | 10.0 | 10.0 | | mg/L | 1 | 09/30/21 04:05 PM |

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 09-Nov-21

CLIENT: Golder
Project: 2H21 Coleta Creek Power Plant
Project No: 19122262-B2021
Lab Order: 2109210

Client Sample ID: BV-21
Lab ID: 2109210-03
Collection Date: 09/28/21 10:20 AM
Matrix: AQUEOUS

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|--|------------|----------------|----------|------|---------------------|----|-------------------|
| TRACE METALS: ICP-MS - WATER | | SW6020B | | | Analyst: SP | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 10/01/21 11:19 AM |
| Arsenic | 0.0603 | 0.00200 | 0.00500 | | mg/L | 1 | 10/01/21 11:19 AM |
| Barium | 0.186 | 0.00300 | 0.0100 | | mg/L | 1 | 10/01/21 11:19 AM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 10/01/21 11:19 AM |
| Boron | 0.385 | 0.0100 | 0.0300 | | mg/L | 1 | 10/04/21 11:58 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 10/01/21 11:19 AM |
| Calcium | 77.3 | 1.00 | 3.00 | | mg/L | 10 | 10/04/21 11:33 AM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 10/01/21 11:19 AM |
| Cobalt | 0.00387 | 0.00300 | 0.00500 | J | mg/L | 1 | 10/01/21 11:19 AM |
| Lead | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 10/01/21 11:19 AM |
| Lithium | 0.00539 | 0.00500 | 0.0100 | J | mg/L | 1 | 10/04/21 11:58 AM |
| Molybdenum | 0.00481 | 0.00200 | 0.00500 | J | mg/L | 1 | 10/01/21 11:19 AM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 10/01/21 11:19 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 10/01/21 11:19 AM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | Analyst: JVR | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 10/07/21 02:51 PM |
| ANIONS BY IC METHOD - WATER | | E300 | | | Analyst: BM | | |
| Chloride | 61.7 | 3.00 | 10.0 | | mg/L | 10 | 10/06/21 09:56 PM |
| Fluoride | 0.496 | 0.100 | 0.400 | | mg/L | 1 | 10/06/21 05:41 AM |
| Sulfate | 31.3 | 1.00 | 3.00 | | mg/L | 1 | 10/06/21 05:41 AM |
| TOTAL DISSOLVED SOLIDS | | M2540C | | | Analyst: JS | | |
| Total Dissolved Solids (Residue, Filterable) | 426 | 10.0 | 10.0 | | mg/L | 1 | 09/30/21 04:05 PM |

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 09-Nov-21

CLIENT: Golder
Project: 2H21 Coleta Creek Power Plant
Project No: 19122262-B2021
Lab Order: 2109210

Client Sample ID: Dup 101
Lab ID: 2109210-04
Collection Date: 09/28/21 10:30 AM
Matrix: AQUEOUS

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|--|------------|----------------|----------|------|---------------------|----|-------------------|
| TRACE METALS: ICP-MS - WATER | | SW6020B | | | Analyst: SP | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 10/01/21 11:22 AM |
| Arsenic | 0.0586 | 0.00200 | 0.00500 | | mg/L | 1 | 10/01/21 11:22 AM |
| Barium | 0.181 | 0.00300 | 0.0100 | | mg/L | 1 | 10/01/21 11:22 AM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 10/01/21 11:22 AM |
| Boron | 0.397 | 0.0100 | 0.0300 | | mg/L | 1 | 10/04/21 12:00 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 10/01/21 11:22 AM |
| Calcium | 77.4 | 1.00 | 3.00 | | mg/L | 10 | 10/04/21 11:35 AM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 10/01/21 11:22 AM |
| Cobalt | 0.00362 | 0.00300 | 0.00500 | J | mg/L | 1 | 10/01/21 11:22 AM |
| Lead | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 10/01/21 11:22 AM |
| Lithium | 0.00656 | 0.00500 | 0.0100 | J | mg/L | 1 | 10/04/21 12:00 PM |
| Molybdenum | 0.00467 | 0.00200 | 0.00500 | J | mg/L | 1 | 10/01/21 11:22 AM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 10/01/21 11:22 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 10/01/21 11:22 AM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | Analyst: JVR | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 10/07/21 02:53 PM |
| ANIONS BY IC METHOD - WATER | | E300 | | | Analyst: BM | | |
| Chloride | 55.7 | 3.00 | 10.0 | | mg/L | 10 | 10/05/21 11:59 PM |
| Fluoride | 0.498 | 0.100 | 0.400 | | mg/L | 1 | 10/06/21 06:00 AM |
| Sulfate | 31.2 | 1.00 | 3.00 | | mg/L | 1 | 10/06/21 06:00 AM |
| TOTAL DISSOLVED SOLIDS | | M2540C | | | Analyst: JS | | |
| Total Dissolved Solids (Residue, Filterable) | 441 | 10.0 | 10.0 | | mg/L | 1 | 09/30/21 04:05 PM |

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 09-Nov-21

CLIENT: Golder
Project: 2H21 Coleta Creek Power Plant
Project No: 19122262-B2021
Lab Order: 2109210

Client Sample ID: MW-8
Lab ID: 2109210-05
Collection Date: 09/28/21 11:20 AM
Matrix: AQUEOUS

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|--|------------|----------------|----------|------|---------------------|----|-------------------|
| TRACE METALS: ICP-MS - WATER | | SW6020B | | | Analyst: SP | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 10/01/21 11:24 AM |
| Arsenic | 0.00856 | 0.00200 | 0.00500 | | mg/L | 1 | 10/01/21 11:24 AM |
| Barium | 0.0690 | 0.00300 | 0.0100 | | mg/L | 1 | 10/01/21 11:24 AM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 10/01/21 11:24 AM |
| Boron | 0.830 | 0.100 | 0.300 | | mg/L | 10 | 10/04/21 11:37 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 10/01/21 11:24 AM |
| Calcium | 59.9 | 1.00 | 3.00 | | mg/L | 10 | 10/04/21 11:37 AM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 10/01/21 11:24 AM |
| Cobalt | 0.0110 | 0.00300 | 0.00500 | | mg/L | 1 | 10/01/21 11:24 AM |
| Lead | 0.000697 | 0.000300 | 0.00100 | J | mg/L | 1 | 10/01/21 11:24 AM |
| Lithium | 0.0102 | 0.00500 | 0.0100 | | mg/L | 1 | 10/04/21 12:17 PM |
| Molybdenum | 0.0124 | 0.00200 | 0.00500 | | mg/L | 1 | 10/01/21 11:24 AM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 10/01/21 11:24 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 10/01/21 11:24 AM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | Analyst: JVR | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 10/07/21 02:56 PM |
| ANIONS BY IC METHOD - WATER | | E300 | | | Analyst: BM | | |
| Chloride | 49.5 | 0.300 | 1.00 | | mg/L | 1 | 10/06/21 06:19 AM |
| Fluoride | 0.473 | 0.100 | 0.400 | | mg/L | 1 | 10/06/21 06:19 AM |
| Sulfate | 56.8 | 1.00 | 3.00 | | mg/L | 1 | 10/06/21 06:19 AM |
| TOTAL DISSOLVED SOLIDS | | M2540C | | | Analyst: JS | | |
| Total Dissolved Solids (Residue, Filterable) | 476 | 10.0 | 10.0 | | mg/L | 1 | 09/30/21 04:05 PM |

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 09-Nov-21

CLIENT: Golder
Project: 2H21 Coleta Creek Power Plant
Project No: 19122262-B2021
Lab Order: 2109210

Client Sample ID: MW-6
Lab ID: 2109210-06
Collection Date: 09/28/21 12:15 PM
Matrix: AQUEOUS

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|--|------------|----------------|----------|------|---------------------|----|-------------------|
| TRACE METALS: ICP-MS - WATER | | SW6020B | | | Analyst: SP | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 10/01/21 11:43 AM |
| Arsenic | 0.00793 | 0.00200 | 0.00500 | | mg/L | 1 | 10/01/21 11:43 AM |
| Barium | 0.0896 | 0.00300 | 0.0100 | | mg/L | 1 | 10/01/21 11:43 AM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 10/01/21 11:43 AM |
| Boron | 1.64 | 0.100 | 0.300 | | mg/L | 10 | 10/04/21 11:39 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 10/01/21 11:43 AM |
| Calcium | 67.3 | 1.00 | 3.00 | | mg/L | 10 | 10/04/21 11:39 AM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 10/01/21 11:43 AM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 10/01/21 11:43 AM |
| Lead | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 10/01/21 11:43 AM |
| Lithium | 0.00911 | 0.00500 | 0.0100 | J | mg/L | 1 | 10/04/21 12:19 PM |
| Molybdenum | 0.00801 | 0.00200 | 0.00500 | | mg/L | 1 | 10/01/21 11:43 AM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 10/01/21 11:43 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 10/01/21 11:43 AM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | Analyst: JVR | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 10/07/21 03:02 PM |
| ANIONS BY IC METHOD - WATER | | E300 | | | Analyst: BM | | |
| Chloride | 70.1 | 3.00 | 10.0 | | mg/L | 10 | 10/06/21 12:37 AM |
| Fluoride | 0.386 | 0.100 | 0.400 | J | mg/L | 1 | 10/06/21 06:38 AM |
| Sulfate | 92.7 | 1.00 | 3.00 | | mg/L | 1 | 10/06/21 06:38 AM |
| TOTAL DISSOLVED SOLIDS | | M2540C | | | Analyst: JS | | |
| Total Dissolved Solids (Residue, Filterable) | 500 | 10.0 | 10.0 | | mg/L | 1 | 09/30/21 04:05 PM |

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 09-Nov-21

CLIENT: Golder
Project: 2H21 Coletto Creek Power Plant
Project No: 19122262-B2021
Lab Order: 2109210

Client Sample ID: MW-11
Lab ID: 2109210-07
Collection Date: 09/28/21 01:15 PM
Matrix: AQUEOUS

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|--|------------|----------------|----------|------|---------------------|----|-------------------|
| TRACE METALS: ICP-MS - WATER | | SW6020B | | | Analyst: SP | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 10/01/21 11:45 AM |
| Arsenic | 0.0137 | 0.00200 | 0.00500 | | mg/L | 1 | 10/01/21 11:45 AM |
| Barium | 0.101 | 0.00300 | 0.0100 | | mg/L | 1 | 10/01/21 11:45 AM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 10/01/21 11:45 AM |
| Boron | 0.869 | 0.100 | 0.300 | | mg/L | 10 | 10/04/21 11:41 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 10/01/21 11:45 AM |
| Calcium | 56.6 | 1.00 | 3.00 | | mg/L | 10 | 10/04/21 11:41 AM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 10/01/21 11:45 AM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 10/01/21 11:45 AM |
| Lead | 0.000475 | 0.000300 | 0.00100 | J | mg/L | 1 | 10/01/21 11:45 AM |
| Lithium | 0.0161 | 0.00500 | 0.0100 | | mg/L | 1 | 10/04/21 12:21 PM |
| Molybdenum | 0.0189 | 0.00200 | 0.00500 | | mg/L | 1 | 10/01/21 11:45 AM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 10/01/21 11:45 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 10/01/21 11:45 AM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | Analyst: JVR | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 10/07/21 03:05 PM |
| ANIONS BY IC METHOD - WATER | | E300 | | | Analyst: BM | | |
| Chloride | 71.7 | 3.00 | 10.0 | | mg/L | 10 | 10/06/21 12:56 AM |
| Fluoride | 0.742 | 0.100 | 0.400 | | mg/L | 1 | 10/06/21 06:57 AM |
| Sulfate | 68.4 | 1.00 | 3.00 | | mg/L | 1 | 10/06/21 06:57 AM |
| TOTAL DISSOLVED SOLIDS | | M2540C | | | Analyst: JS | | |
| Total Dissolved Solids (Residue, Filterable) | 415 | 10.0 | 10.0 | | mg/L | 1 | 09/30/21 04:05 PM |

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 09-Nov-21

CLIENT: Golder
Project: 2H21 Coletto Creek Power Plant
Project No: 19122262-B2021
Lab Order: 2109210

Client Sample ID: MW-9
Lab ID: 2109210-08
Collection Date: 09/28/21 02:00 PM
Matrix: AQUEOUS

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|--|------------|----------------|----------|------|---------------------|----|-------------------|
| TRACE METALS: ICP-MS - WATER | | SW6020B | | | Analyst: SP | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 10/01/21 11:48 AM |
| Arsenic | 0.0197 | 0.00200 | 0.00500 | | mg/L | 1 | 10/01/21 11:48 AM |
| Barium | 0.163 | 0.00300 | 0.0100 | | mg/L | 1 | 10/01/21 11:48 AM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 10/01/21 11:48 AM |
| Boron | 1.23 | 0.100 | 0.300 | | mg/L | 10 | 10/04/21 11:43 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 10/01/21 11:48 AM |
| Calcium | 74.3 | 1.00 | 3.00 | | mg/L | 10 | 10/04/21 11:43 AM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 10/01/21 11:48 AM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 10/01/21 11:48 AM |
| Lead | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 10/01/21 11:48 AM |
| Lithium | 0.00865 | 0.00500 | 0.0100 | J | mg/L | 1 | 10/04/21 12:23 PM |
| Molybdenum | 0.0158 | 0.00200 | 0.00500 | | mg/L | 1 | 10/01/21 11:48 AM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 10/01/21 11:48 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 10/01/21 11:48 AM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | Analyst: JVR | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 10/07/21 03:07 PM |
| ANIONS BY IC METHOD - WATER | | E300 | | | Analyst: BM | | |
| Chloride | 62.9 | 3.00 | 10.0 | | mg/L | 10 | 10/06/21 01:15 AM |
| Fluoride | 0.629 | 0.100 | 0.400 | | mg/L | 1 | 10/06/21 07:16 AM |
| Sulfate | 79.0 | 1.00 | 3.00 | | mg/L | 1 | 10/06/21 07:16 AM |
| TOTAL DISSOLVED SOLIDS | | M2540C | | | Analyst: JS | | |
| Total Dissolved Solids (Residue, Filterable) | 507 | 10.0 | 10.0 | | mg/L | 1 | 09/30/21 04:05 PM |

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 09-Nov-21

CLIENT: Golder
Project: 2H21 Coleta Creek Power Plant
Project No: 19122262-B2021
Lab Order: 2109210

Client Sample ID: MW-5
Lab ID: 2109210-09
Collection Date: 09/28/21 02:45 PM
Matrix: AQUEOUS

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|--|------------|----------------|----------|------|---------------------|----|-------------------|
| TRACE METALS: ICP-MS - WATER | | SW6020B | | | Analyst: SP | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 10/01/21 11:50 AM |
| Arsenic | 0.00892 | 0.00200 | 0.00500 | | mg/L | 1 | 10/01/21 11:50 AM |
| Barium | 0.0639 | 0.00300 | 0.0100 | | mg/L | 1 | 10/01/21 11:50 AM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 10/01/21 11:50 AM |
| Boron | 0.150 | 0.0100 | 0.0300 | | mg/L | 1 | 10/04/21 12:02 PM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 10/01/21 11:50 AM |
| Calcium | 103 | 1.00 | 3.00 | | mg/L | 10 | 10/04/21 11:45 AM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 10/01/21 11:50 AM |
| Cobalt | <0.00300 | 0.00300 | 0.00500 | | mg/L | 1 | 10/01/21 11:50 AM |
| Lead | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 10/01/21 11:50 AM |
| Lithium | 0.0194 | 0.00500 | 0.0100 | | mg/L | 1 | 10/04/21 12:02 PM |
| Molybdenum | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 10/01/21 11:50 AM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 10/01/21 11:50 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 10/01/21 11:50 AM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | | Analyst: JVR | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 10/07/21 03:09 PM |
| ANIONS BY IC METHOD - WATER | | E300 | | | Analyst: BM | | |
| Chloride | 127 | 3.00 | 10.0 | | mg/L | 10 | 10/06/21 01:34 AM |
| Fluoride | 0.559 | 0.100 | 0.400 | | mg/L | 1 | 10/06/21 08:51 AM |
| Sulfate | 190 | 10.0 | 30.0 | | mg/L | 10 | 10/06/21 01:34 AM |
| TOTAL DISSOLVED SOLIDS | | M2540C | | | Analyst: JS | | |
| Total Dissolved Solids (Residue, Filterable) | 831 | 10.0 | 10.0 | | mg/L | 1 | 09/30/21 04:05 PM |

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 09-Nov-21

CLIENT: Golder
Project: 2H21 Coleta Creek Power Plant
Project No: 19122262-B2021
Lab Order: 2109210

Client Sample ID: MW-10
Lab ID: 2109210-10
Collection Date: 09/28/21 03:25 PM
Matrix: AQUEOUS

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|--|------------|----------------|----------|---------------------|-------|----|-------------------|
| TRACE METALS: ICP-MS - WATER | | SW6020B | | Analyst: SP | | | |
| Antimony | <0.000800 | 0.000800 | 0.00250 | | mg/L | 1 | 10/01/21 11:53 AM |
| Arsenic | 0.0143 | 0.00200 | 0.00500 | | mg/L | 1 | 10/01/21 11:53 AM |
| Barium | 0.0477 | 0.00300 | 0.0100 | | mg/L | 1 | 10/01/21 11:53 AM |
| Beryllium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 10/01/21 11:53 AM |
| Boron | 7.48 | 0.100 | 0.300 | | mg/L | 10 | 10/04/21 11:47 AM |
| Cadmium | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 10/01/21 11:53 AM |
| Calcium | 32.9 | 1.00 | 3.00 | | mg/L | 10 | 10/04/21 11:47 AM |
| Chromium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 10/01/21 11:53 AM |
| Cobalt | 0.00607 | 0.00300 | 0.00500 | | mg/L | 1 | 10/01/21 11:53 AM |
| Lead | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 10/01/21 11:53 AM |
| Lithium | 0.0109 | 0.00500 | 0.0100 | | mg/L | 1 | 10/04/21 12:25 PM |
| Molybdenum | 0.108 | 0.00200 | 0.00500 | | mg/L | 1 | 10/01/21 11:53 AM |
| Selenium | <0.00200 | 0.00200 | 0.00500 | | mg/L | 1 | 10/01/21 11:53 AM |
| Thallium | <0.000500 | 0.000500 | 0.00150 | | mg/L | 1 | 10/01/21 11:53 AM |
| MERCURY TOTAL: AQUEOUS | | SW7470A | | Analyst: JVR | | | |
| Mercury | <0.0000800 | 0.0000800 | 0.000200 | | mg/L | 1 | 10/07/21 03:11 PM |
| ANIONS BY IC METHOD - WATER | | E300 | | Analyst: BM | | | |
| Chloride | 54.2 | 3.00 | 10.0 | | mg/L | 10 | 10/06/21 01:53 AM |
| Fluoride | 0.960 | 0.100 | 0.400 | | mg/L | 1 | 10/06/21 09:10 AM |
| Sulfate | 76.8 | 1.00 | 3.00 | | mg/L | 1 | 10/06/21 09:10 AM |
| TOTAL DISSOLVED SOLIDS | | M2540C | | Analyst: JS | | | |
| Total Dissolved Solids (Residue, Filterable) | 507 | 10.0 | 10.0 | | mg/L | 1 | 09/30/21 04:05 PM |

Qualifiers: ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF- Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

CLIENT: Golder
Work Order: 2109210
Project: 2H21 Coleta Creek Power Plant

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_210728C

| Sample ID: DCS-101411 | Batch ID: 101411 | TestNo: SW7470A | Units: mg/L | | | | | | | |
|------------------------------|----------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: DCS | Run ID: CETAC2_HG_210728C | Analysis Date: 7/28/2021 1:24:11 PM | Prep Date: 7/27/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | 0.000189 | 0.000200 | 0.000200 | 0 | 94.5 | 82 | 119 | 0 | 0 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL

DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAP certified

CLIENT: Golder
Work Order: 2109210
Project: 2H21 Coletto Creek Power Plant

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_211007C

The QC data in batch 102255 applies to the following samples: 2109210-01A, 2109210-02A, 2109210-03A, 2109210-04A, 2109210-05A, 2109210-06A, 2109210-07A, 2109210-08A, 2109210-09A, 2109210-10A

| | | | | | | | | | | |
|-----------------------------|----------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: MB-102255 | Batch ID: 102255 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: MBLK | Run ID: CETAC2_HG_211007C | Analysis Date: 10/7/2021 2:26:30 PM | Prep Date: 10/4/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | <0.0000800 | 0.000200 | | | | | | | | |

| | | | | | | | | | | |
|------------------------------|----------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: LCS-102255 | Batch ID: 102255 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: LCS | Run ID: CETAC2_HG_211007C | Analysis Date: 10/7/2021 2:31:03 PM | Prep Date: 10/4/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | 0.00204 | 0.000200 | 0.00200 | 0 | 102 | 85 | 115 | | | |

| | | | | | | | | | | |
|-------------------------------|----------------------------------|--|-----------------------------|---------|------|----------|-----------|-------|----------|------|
| Sample ID: LCSD-102255 | Batch ID: 102255 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: LCSD | Run ID: CETAC2_HG_211007C | Analysis Date: 10/7/2021 2:33:19 PM | Prep Date: 10/4/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | 0.00205 | 0.000200 | 0.00200 | 0 | 103 | 85 | 115 | 0.489 | 15 | |

| | | | | | | | | | | |
|----------------------------------|----------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: 2109206-01C MS | Batch ID: 102255 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: MS | Run ID: CETAC2_HG_211007C | Analysis Date: 10/7/2021 2:37:51 PM | Prep Date: 10/4/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | 0.0101 | 0.00100 | 0.0100 | 0 | 101 | 80 | 120 | | | |

| | | | | | | | | | | |
|-----------------------------------|----------------------------------|--|-----------------------------|---------|------|----------|-----------|-------|----------|------|
| Sample ID: 2109206-01C MSD | Batch ID: 102255 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: MSD | Run ID: CETAC2_HG_211007C | Analysis Date: 10/7/2021 2:40:07 PM | Prep Date: 10/4/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | 0.0102 | 0.00100 | 0.0100 | 0 | 102 | 80 | 120 | 0.494 | 15 | |

| | | | | | | | | | | |
|----------------------------------|----------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: 2109206-01C SD | Batch ID: 102255 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: SD | Run ID: CETAC2_HG_211007C | Analysis Date: 10/7/2021 2:42:23 PM | Prep Date: 10/4/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | <0.00200 | 0.00500 | 0 | 0 | | | | 0 | 10 | |

| | | | | | | | | | | |
|-----------------------------------|----------------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: 2109206-01C PDS | Batch ID: 102255 | TestNo: SW7470A | Units: mg/L | | | | | | | |
| SampType: PDS | Run ID: CETAC2_HG_211007C | Analysis Date: 10/7/2021 2:44:39 PM | Prep Date: 10/4/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | 0.0123 | 0.00100 | 0.0125 | 0 | 98.4 | 85 | 115 | | | |

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
J Analyte detected between MDL and RL MDL Method Detection Limit
ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
RL Reporting Limit S Spike Recovery outside control limits
J Analyte detected between SDL and RL N Parameter not NELAP certified

CLIENT: Golder
Work Order: 2109210
Project: 2H21 Coletto Creek Power Plant

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_211007C

| | | | |
|------------------------------|----------------------------------|--|--------------------|
| Sample ID: ICV-211007 | Batch ID: R117417 | TestNo: SW7470A | Units: mg/L |
| SampType: ICV | Run ID: CETAC2_HG_211007C | Analysis Date: 10/7/2021 1:57:01 PM | Prep Date: |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|----|-----------|---------|------|----------|-----------|------|----------|------|
|---------|--------|----|-----------|---------|------|----------|-----------|------|----------|------|

| | | | | | | | | | | |
|---------|---------|----------|---------|---|-----|----|-----|--|--|--|
| Mercury | 0.00409 | 0.000200 | 0.00400 | 0 | 102 | 90 | 110 | | | |
|---------|---------|----------|---------|---|-----|----|-----|--|--|--|

| | | | |
|-------------------------------|----------------------------------|--|--------------------|
| Sample ID: CCV1-211007 | Batch ID: R117417 | TestNo: SW7470A | Units: mg/L |
| SampType: CCV | Run ID: CETAC2_HG_211007C | Analysis Date: 10/7/2021 2:58:18 PM | Prep Date: |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|----|-----------|---------|------|----------|-----------|------|----------|------|
|---------|--------|----|-----------|---------|------|----------|-----------|------|----------|------|

| | | | | | | | | | | |
|---------|---------|----------|---------|---|-----|----|-----|--|--|--|
| Mercury | 0.00201 | 0.000200 | 0.00200 | 0 | 101 | 90 | 110 | | | |
|---------|---------|----------|---------|---|-----|----|-----|--|--|--|

| | | | |
|-------------------------------|----------------------------------|--|--------------------|
| Sample ID: CCV2-211007 | Batch ID: R117417 | TestNo: SW7470A | Units: mg/L |
| SampType: CCV | Run ID: CETAC2_HG_211007C | Analysis Date: 10/7/2021 3:14:17 PM | Prep Date: |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|----|-----------|---------|------|----------|-----------|------|----------|------|
|---------|--------|----|-----------|---------|------|----------|-----------|------|----------|------|

| | | | | | | | | | | |
|---------|---------|----------|---------|---|------|----|-----|--|--|--|
| Mercury | 0.00197 | 0.000200 | 0.00200 | 0 | 98.5 | 90 | 110 | | | |
|---------|---------|----------|---------|---|------|----|-----|--|--|--|

| | |
|--|---|
| <p>Qualifiers:</p> <ul style="list-style-type: none"> B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | <ul style="list-style-type: none"> DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAP certified |
|--|---|

CLIENT: Golder
Work Order: 2109210
Project: 2H21 Coletto Creek Power Plant

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_210803A

| Sample ID: DCS2-101483 | Batch ID: 101483 | TestNo: SW6020B | Units: mg/L | | | | | | | |
|-------------------------------|--------------------------------|---|----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: DCS2 | Run ID: ICP-MS4_210803A | Analysis Date: 8/3/2021 1:21:00 PM | Prep Date: 8/2/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|---------|-------|-------|-------|---|------|----|-----|---|---|--|
| Calcium | 0.278 | 0.300 | 0.300 | 0 | 92.6 | 70 | 130 | 0 | 0 | |
|---------|-------|-------|-------|---|------|----|-----|---|---|--|

| Sample ID: DCS3-101483 | Batch ID: 101483 | TestNo: SW6020B | Units: mg/L | | | | | | | |
|-------------------------------|--------------------------------|---|----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: DCS3 | Run ID: ICP-MS4_210803A | Analysis Date: 8/3/2021 1:24:00 PM | Prep Date: 8/2/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|---------|---------|--------|---------|---|------|----|-----|---|---|--|
| Lithium | 0.00475 | 0.0100 | 0.00500 | 0 | 95.0 | 70 | 130 | 0 | 0 | |
|---------|---------|--------|---------|---|------|----|-----|---|---|--|

| Sample ID: DCS4-101483 | Batch ID: 101483 | TestNo: SW6020B | Units: mg/L | | | | | | | |
|-------------------------------|--------------------------------|---|----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: DCS4 | Run ID: ICP-MS4_210803A | Analysis Date: 8/3/2021 1:27:00 PM | Prep Date: 8/2/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|-------|--------|--------|--------|---|-----|----|-----|---|---|--|
| Boron | 0.0315 | 0.0300 | 0.0300 | 0 | 105 | 70 | 130 | 0 | 0 | |
|-------|--------|--------|--------|---|-----|----|-----|---|---|--|

Qualifiers:

| | |
|---|---|
| B Analyte detected in the associated Method Blank | DF Dilution Factor |
| J Analyte detected between MDL and RL | MDL Method Detection Limit |
| ND Not Detected at the Method Detection Limit | R RPD outside accepted control limits |
| RL Reporting Limit | S Spike Recovery outside control limits |
| J Analyte detected between SDL and RL | N Parameter not NELAP certified |

CLIENT: Golder
Work Order: 2109210
Project: 2H21 Coletto Creek Power Plant

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_211004A

The QC data in batch 102242 applies to the following samples: 2109210-01A, 2109210-02A, 2109210-03A, 2109210-04A, 2109210-05A, 2109210-06A, 2109210-07A, 2109210-08A, 2109210-09A, 2109210-10A

| | | | | | | | | | | |
|-----------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: MB-102242 | Batch ID: 102242 | TestNo: SW6020B | Units: mg/L | | | | | | | |
| SampType: MBLK | Run ID: ICP-MS4_211004A | Analysis Date: 10/4/2021 10:48:00 AM | Prep Date: 9/30/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | <0.0100 | 0.0300 | | | | | | | | |
| Lithium | <0.00500 | 0.0100 | | | | | | | | |

| | | | | | | | | | | |
|------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: LCS-102242 | Batch ID: 102242 | TestNo: SW6020B | Units: mg/L | | | | | | | |
| SampType: LCS | Run ID: ICP-MS4_211004A | Analysis Date: 10/4/2021 10:50:00 AM | Prep Date: 9/30/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 0.188 | 0.0300 | 0.200 | 0 | 93.9 | 80 | 120 | | | |
| Lithium | 0.205 | 0.0100 | 0.200 | 0 | 103 | 80 | 120 | | | |

| | | | | | | | | | | |
|------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|-------|----------|------|
| Sample ID: LCS-102242 | Batch ID: 102242 | TestNo: SW6020B | Units: mg/L | | | | | | | |
| SampType: LCS | Run ID: ICP-MS4_211004A | Analysis Date: 10/4/2021 10:52:00 AM | Prep Date: 9/30/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 0.202 | 0.0300 | 0.200 | 0 | 101 | 80 | 120 | 7.13 | 15 | |
| Lithium | 0.206 | 0.0100 | 0.200 | 0 | 103 | 80 | 120 | 0.176 | 15 | |

| | | | | | | | | | | |
|----------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: 2109173-01A SD | Batch ID: 102242 | TestNo: SW6020B | Units: mg/L | | | | | | | |
| SampType: SD | Run ID: ICP-MS4_211004A | Analysis Date: 10/4/2021 10:58:00 AM | Prep Date: 9/30/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 3.49 | 7.50 | 0 | 3.58 | | | | 2.51 | 20 | |

| | | | | | | | | | | |
|-----------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: 2109173-01A PDS | Batch ID: 102242 | TestNo: SW6020B | Units: mg/L | | | | | | | |
| SampType: PDS | Run ID: ICP-MS4_211004A | Analysis Date: 10/4/2021 11:16:00 AM | Prep Date: 9/30/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 13.1 | 1.50 | 10.0 | 3.58 | 95.4 | 75 | 125 | | | |

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|----------------------------------|--------------------------------|---|-----------------------------|---------|-------|----------|-----------|------|----------|------|
| Sample ID: 2109173-01A MS | Batch ID: 102242 | TestNo: SW6020B | Units: mg/L | | | | | | | |
| SampType: MS | Run ID: ICP-MS4_211004A | Analysis Date: 10/4/2021 11:20:00 AM | Prep Date: 9/30/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 3.57 | 1.50 | 0.200 | 3.58 | -5.12 | 75 | 125 | | | S |

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|-----------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: 2109173-01A MSD | Batch ID: 102242 | TestNo: SW6020B | Units: mg/L | | | | | | | |
| SampType: MSD | Run ID: ICP-MS4_211004A | Analysis Date: 10/4/2021 11:22:00 AM | Prep Date: 9/30/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
J Analyte detected between MDL and RL MDL Method Detection Limit
ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
RL Reporting Limit S Spike Recovery outside control limits
J Analyte detected between SDL and RL N Parameter not NELAP certified

CLIENT: Golder
Work Order: 2109210
Project: 2H21 Coletto Creek Power Plant

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_211004A

| | | | | | | | | | | |
|-----------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: 2109173-01A MSD | Batch ID: 102242 | TestNo: SW6020B | Units: mg/L | | | | | | | |
| SampType: MSD | Run ID: ICP-MS4_211004A | Analysis Date: 10/4/2021 11:22:00 AM | Prep Date: 9/30/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Boron | 3.71 | 1.50 | 0.200 | 3.58 | 67.9 | 75 | 125 | 4.01 | 15 | S |

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|----------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: 2109173-01A SD | Batch ID: 102242 | TestNo: SW6020B | Units: mg/L | | | | | | | |
| SampType: SD | Run ID: ICP-MS4_211004A | Analysis Date: 10/4/2021 12:13:00 PM | Prep Date: 9/30/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.140 | 0.0500 | 0 | 0.128 | | | | 8.54 | 20 | |

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|-----------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: 2109173-01A PDS | Batch ID: 102242 | TestNo: SW6020B | Units: mg/L | | | | | | | |
| SampType: PDS | Run ID: ICP-MS4_211004A | Analysis Date: 10/4/2021 12:27:00 PM | Prep Date: 9/30/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.287 | 0.0100 | 0.200 | 0.129 | 79.4 | 75 | 125 | | | |

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|----------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: 2109173-01A MS | Batch ID: 102242 | TestNo: SW6020B | Units: mg/L | | | | | | | |
| SampType: MS | Run ID: ICP-MS4_211004A | Analysis Date: 10/4/2021 12:30:00 PM | Prep Date: 9/30/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.293 | 0.0100 | 0.200 | 0.129 | 82.3 | 75 | 125 | | | |

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|-----------------------------------|--------------------------------|---|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: 2109173-01A MSD | Batch ID: 102242 | TestNo: SW6020B | Units: mg/L | | | | | | | |
| SampType: MSD | Run ID: ICP-MS4_211004A | Analysis Date: 10/4/2021 12:31:00 PM | Prep Date: 9/30/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lithium | 0.282 | 0.0100 | 0.200 | 0.129 | 76.6 | 75 | 125 | 3.94 | 15 | |

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|--|---|
| Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAP certified |
|--|---|

CLIENT: Golder
Work Order: 2109210
Project: 2H21 Coletto Creek Power Plant

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_211004A

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|------------------------------|--------------------------------|---|--------------------|
| Sample ID: ICV-211004 | Batch ID: R117370 | TestNo: SW6020B | Units: mg/L |
| SampType: ICV | Run ID: ICP-MS4_211004A | Analysis Date: 10/4/2021 10:34:00 AM | Prep Date: |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|--------|-----------|---------|------|----------|-----------|------|----------|------|
| Boron | 0.0959 | 0.0300 | 0.100 | 0 | 95.9 | 90 | 110 | | | |
| Calcium | 2.49 | 0.300 | 2.50 | 0 | 99.6 | 90 | 110 | | | |
| Lithium | 0.0962 | 0.0100 | 0.100 | 0 | 96.2 | 90 | 110 | | | |

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|-------------------------------|--------------------------------|---|--------------------|
| Sample ID: LCVL-211004 | Batch ID: R117370 | TestNo: SW6020B | Units: mg/L |
| SampType: LCVL | Run ID: ICP-MS4_211004A | Analysis Date: 10/4/2021 10:42:00 AM | Prep Date: |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|--------|-----------|---------|------|----------|-----------|------|----------|------|
| Boron | 0.0184 | 0.0300 | 0.0200 | 0 | 92.1 | 80 | 120 | | | |
| Calcium | 0.0987 | 0.300 | 0.100 | 0 | 98.7 | 80 | 120 | | | |
| Lithium | 0.0107 | 0.0100 | 0.0100 | 0 | 107 | 80 | 120 | | | |

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|-------------------------------|--------------------------------|---|--------------------|
| Sample ID: CCV1-211004 | Batch ID: R117370 | TestNo: SW6020B | Units: mg/L |
| SampType: CCV | Run ID: ICP-MS4_211004A | Analysis Date: 10/4/2021 11:24:00 AM | Prep Date: |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|--------|-----------|---------|------|----------|-----------|------|----------|------|
| Boron | 0.205 | 0.0300 | 0.200 | 0 | 103 | 90 | 110 | | | |
| Calcium | 4.80 | 0.300 | 5.00 | 0 | 96.0 | 90 | 110 | | | |
| Lithium | 0.213 | 0.0100 | 0.200 | 0 | 107 | 90 | 110 | | | |

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|-------------------------------|--------------------------------|---|--------------------|
| Sample ID: CCV2-211004 | Batch ID: R117370 | TestNo: SW6020B | Units: mg/L |
| SampType: CCV | Run ID: ICP-MS4_211004A | Analysis Date: 10/4/2021 11:52:00 AM | Prep Date: |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|--------|-----------|---------|------|----------|-----------|------|----------|------|
| Boron | 0.195 | 0.0300 | 0.200 | 0 | 97.6 | 90 | 110 | | | |
| Calcium | 4.69 | 0.300 | 5.00 | 0 | 93.9 | 90 | 110 | | | |
| Lithium | 0.220 | 0.0100 | 0.200 | 0 | 110 | 90 | 110 | | | |

| | | | |
|-------------------------------|--------------------------------|---|--------------------|
| Sample ID: CCV3-211004 | Batch ID: R117370 | TestNo: SW6020B | Units: mg/L |
| SampType: CCV | Run ID: ICP-MS4_211004A | Analysis Date: 10/4/2021 12:07:00 PM | Prep Date: |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|--------|-----------|---------|------|----------|-----------|------|----------|------|
| Boron | 0.199 | 0.0300 | 0.200 | 0 | 99.3 | 90 | 110 | | | |
| Lithium | 0.217 | 0.0100 | 0.200 | 0 | 108 | 90 | 110 | | | |

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|-------------------------------|--------------------------------|---|--------------------|
| Sample ID: CCV4-211004 | Batch ID: R117370 | TestNo: SW6020B | Units: mg/L |
| SampType: CCV | Run ID: ICP-MS4_211004A | Analysis Date: 10/4/2021 12:37:00 PM | Prep Date: |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|--------|-----------|---------|------|----------|-----------|------|----------|------|
| Lithium | 0.193 | 0.0100 | 0.200 | 0 | 96.7 | 90 | 110 | | | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAP certified

CLIENT: Golder
Work Order: 2109210
Project: 2H21 Coleta Creek Power Plant

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_210803A

| | | | |
|-------------------------------|--------------------------------|--|----------------------------|
| Sample ID: DCS1-101483 | Batch ID: 101483 | TestNo: SW6020B | Units: mg/L |
| SampType: DCS | Run ID: ICP-MS5_210803A | Analysis Date: 8/3/2021 11:08:00 AM | Prep Date: 8/2/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|-----------|----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.00124 | 0.00250 | 0.00100 | 0 | 124 | 70 | 130 | 0 | 0 | |
| Beryllium | 0.000576 | 0.00100 | 0.000500 | 0 | 115 | 70 | 130 | 0 | 0 | |
| Cadmium | 0.000583 | 0.00100 | 0.000500 | 0 | 117 | 70 | 130 | 0 | 0 | |
| Lead | 0.000564 | 0.00100 | 0.000500 | 0 | 113 | 70 | 130 | 0 | 0 | |
| Thallium | 0.000544 | 0.00150 | 0.000500 | 0 | 109 | 70 | 130 | 0 | 0 | |

| | | | |
|-------------------------------|--------------------------------|--|----------------------------|
| Sample ID: DCS2-101483 | Batch ID: 101483 | TestNo: SW6020B | Units: mg/L |
| SampType: DCS2 | Run ID: ICP-MS5_210803A | Analysis Date: 8/3/2021 11:11:00 AM | Prep Date: 8/2/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Calcium | 0.277 | 0.300 | 0.300 | 0 | 92.2 | 70 | 130 | 0 | 0 | |

| | | | |
|-------------------------------|--------------------------------|--|----------------------------|
| Sample ID: DCS3-101483 | Batch ID: 101483 | TestNo: SW6020B | Units: mg/L |
| SampType: DCS3 | Run ID: ICP-MS5_210803A | Analysis Date: 8/3/2021 11:14:00 AM | Prep Date: 8/2/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|---------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Arsenic | 0.00538 | 0.00500 | 0.00500 | 0 | 108 | 70 | 130 | 0 | 0 | |
| Barium | 0.00505 | 0.0100 | 0.00500 | 0 | 101 | 70 | 130 | 0 | 0 | |
| Chromium | 0.00554 | 0.00500 | 0.00500 | 0 | 111 | 70 | 130 | 0 | 0 | |
| Cobalt | 0.00552 | 0.00500 | 0.00500 | 0 | 110 | 70 | 130 | 0 | 0 | |
| Molybdenum | 0.00525 | 0.00500 | 0.00500 | 0 | 105 | 70 | 130 | 0 | 0 | |
| Selenium | 0.00540 | 0.00500 | 0.00500 | 0 | 108 | 70 | 130 | 0 | 0 | |

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| <p>Qualifiers:</p> <p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p> | <p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAP certified</p> |
|---|--|

CLIENT: Golder
Work Order: 2109210
Project: 2H21 Coletto Creek Power Plant

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_211001A

The QC data in batch 102242 applies to the following samples: 2109210-01A, 2109210-02A, 2109210-03A, 2109210-04A, 2109210-05A, 2109210-06A, 2109210-07A, 2109210-08A, 2109210-09A, 2109210-10A

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|-----------------------------|--------------------------------|---|-----------------------------|
| Sample ID: MB-102242 | Batch ID: 102242 | TestNo: SW6020B | Units: mg/L |
| SampType: MBLK | Run ID: ICP-MS5_211001A | Analysis Date: 10/1/2021 10:48:00 AM | Prep Date: 9/30/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|-----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | <0.000800 | 0.00250 | | | | | | | | |
| Arsenic | <0.00200 | 0.00500 | | | | | | | | |
| Barium | <0.00300 | 0.0100 | | | | | | | | |
| Beryllium | <0.000300 | 0.00100 | | | | | | | | |
| Cadmium | <0.000300 | 0.00100 | | | | | | | | |
| Calcium | <0.100 | 0.300 | | | | | | | | |
| Chromium | <0.00200 | 0.00500 | | | | | | | | |
| Cobalt | <0.00300 | 0.00500 | | | | | | | | |
| Lead | <0.000300 | 0.00100 | | | | | | | | |
| Molybdenum | <0.00200 | 0.00500 | | | | | | | | |
| Selenium | <0.00200 | 0.00500 | | | | | | | | |
| Thallium | <0.000500 | 0.00150 | | | | | | | | |

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|------------------------------|--------------------------------|---|-----------------------------|
| Sample ID: LCS-102242 | Batch ID: 102242 | TestNo: SW6020B | Units: mg/L |
| SampType: LCS | Run ID: ICP-MS5_211001A | Analysis Date: 10/1/2021 10:51:00 AM | Prep Date: 9/30/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.191 | 0.00250 | 0.200 | 0 | 95.7 | 80 | 120 | | | |
| Arsenic | 0.199 | 0.00500 | 0.200 | 0 | 99.3 | 80 | 120 | | | |
| Barium | 0.195 | 0.0100 | 0.200 | 0 | 97.3 | 80 | 120 | | | |
| Beryllium | 0.189 | 0.00100 | 0.200 | 0 | 94.3 | 80 | 120 | | | |
| Cadmium | 0.199 | 0.00100 | 0.200 | 0 | 99.6 | 80 | 120 | | | |
| Calcium | 4.87 | 0.300 | 5.00 | 0 | 97.4 | 80 | 120 | | | |
| Chromium | 0.198 | 0.00500 | 0.200 | 0 | 99.1 | 80 | 120 | | | |
| Cobalt | 0.205 | 0.00500 | 0.200 | 0 | 102 | 80 | 120 | | | |
| Lead | 0.194 | 0.00100 | 0.200 | 0 | 97.2 | 80 | 120 | | | |
| Molybdenum | 0.194 | 0.00500 | 0.200 | 0 | 97.0 | 80 | 120 | | | |
| Selenium | 0.204 | 0.00500 | 0.200 | 0 | 102 | 80 | 120 | | | |
| Thallium | 0.195 | 0.00150 | 0.200 | 0 | 97.3 | 80 | 120 | | | |

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|-------------------------------|--------------------------------|---|-----------------------------|
| Sample ID: LCSD-102242 | Batch ID: 102242 | TestNo: SW6020B | Units: mg/L |
| SampType: LCSD | Run ID: ICP-MS5_211001A | Analysis Date: 10/1/2021 10:54:00 AM | Prep Date: 9/30/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|-----------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.195 | 0.00250 | 0.200 | 0 | 97.7 | 80 | 120 | 2.10 | 15 | |
| Arsenic | 0.203 | 0.00500 | 0.200 | 0 | 101 | 80 | 120 | 2.19 | 15 | |
| Barium | 0.197 | 0.0100 | 0.200 | 0 | 98.6 | 80 | 120 | 1.34 | 15 | |
| Beryllium | 0.192 | 0.00100 | 0.200 | 0 | 95.9 | 80 | 120 | 1.76 | 15 | |
| Cadmium | 0.201 | 0.00100 | 0.200 | 0 | 101 | 80 | 120 | 1.07 | 15 | |

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|--|---|
| <p>Qualifiers:</p> <ul style="list-style-type: none"> B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | <ul style="list-style-type: none"> DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAP certified |
|--|---|

CLIENT: Golder
Work Order: 2109210
Project: 2H21 Coletto Creek Power Plant

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_211001A

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|-------------------------------|--------------------------------|---|-----------------------------|
| Sample ID: LCSD-102242 | Batch ID: 102242 | TestNo: SW6020B | Units: mg/L |
| SampType: LCSD | Run ID: ICP-MS5_211001A | Analysis Date: 10/1/2021 10:54:00 AM | Prep Date: 9/30/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|-------|----------|------|
| Calcium | 4.87 | 0.300 | 5.00 | 0 | 97.5 | 80 | 120 | 0.116 | 15 | |
| Chromium | 0.202 | 0.00500 | 0.200 | 0 | 101 | 80 | 120 | 1.95 | 15 | |
| Cobalt | 0.208 | 0.00500 | 0.200 | 0 | 104 | 80 | 120 | 1.35 | 15 | |
| Lead | 0.198 | 0.00100 | 0.200 | 0 | 99.2 | 80 | 120 | 2.04 | 15 | |
| Molybdenum | 0.196 | 0.00500 | 0.200 | 0 | 98.1 | 80 | 120 | 1.19 | 15 | |
| Selenium | 0.203 | 0.00500 | 0.200 | 0 | 102 | 80 | 120 | 0.081 | 15 | |
| Thallium | 0.198 | 0.00150 | 0.200 | 0 | 99.0 | 80 | 120 | 1.69 | 15 | |

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|----------------------------------|--------------------------------|---|-----------------------------|
| Sample ID: 2109173-01A SD | Batch ID: 102242 | TestNo: SW6020B | Units: mg/L |
| SampType: SD | Run ID: ICP-MS5_211001A | Analysis Date: 10/1/2021 11:01:00 AM | Prep Date: 9/30/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|----------|---------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | <0.00400 | 0.0125 | 0 | 0.00130 | | | | 0 | 20 | |
| Arsenic | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 20 | |
| Barium | 0.0513 | 0.0500 | 0 | 0.0518 | | | | 0.929 | 20 | |
| Beryllium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 20 | |
| Cadmium | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 20 | |
| Calcium | 14.3 | 1.50 | 0 | 14.1 | | | | 1.80 | 20 | |
| Chromium | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 20 | |
| Cobalt | <0.0150 | 0.0250 | 0 | 0 | | | | 0 | 20 | |
| Lead | <0.00150 | 0.00500 | 0 | 0 | | | | 0 | 20 | |
| Molybdenum | 0.0256 | 0.0250 | 0 | 0.0253 | | | | 0.959 | 20 | |
| Selenium | <0.0100 | 0.0250 | 0 | 0 | | | | 0 | 20 | |
| Thallium | <0.00250 | 0.00750 | 0 | 0 | | | | 0 | 20 | |

| | | | |
|-----------------------------------|--------------------------------|---|-----------------------------|
| Sample ID: 2109173-01A PDS | Batch ID: 102242 | TestNo: SW6020B | Units: mg/L |
| SampType: PDS | Run ID: ICP-MS5_211001A | Analysis Date: 10/1/2021 11:27:00 AM | Prep Date: 9/30/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.191 | 0.00250 | 0.200 | 0.00130 | 94.9 | 75 | 125 | | | |
| Arsenic | 0.182 | 0.00500 | 0.200 | 0 | 90.8 | 75 | 125 | | | |
| Barium | 0.241 | 0.0100 | 0.200 | 0.0518 | 94.6 | 75 | 125 | | | |
| Beryllium | 0.178 | 0.00100 | 0.200 | 0 | 88.9 | 75 | 125 | | | |
| Cadmium | 0.189 | 0.00100 | 0.200 | 0 | 94.5 | 75 | 125 | | | |
| Calcium | 17.4 | 0.300 | 5.00 | 14.1 | 66.6 | 75 | 125 | | | S |
| Chromium | 0.191 | 0.00500 | 0.200 | 0 | 95.3 | 75 | 125 | | | |
| Cobalt | 0.189 | 0.00500 | 0.200 | 0 | 94.5 | 75 | 125 | | | |
| Lead | 0.192 | 0.00100 | 0.200 | 0 | 96.2 | 75 | 125 | | | |
| Molybdenum | 0.211 | 0.00500 | 0.200 | 0.0253 | 93.1 | 75 | 125 | | | |
| Selenium | 0.173 | 0.00500 | 0.200 | 0 | 86.5 | 75 | 125 | | | |
| Thallium | 0.191 | 0.00150 | 0.200 | 0 | 95.6 | 75 | 125 | | | |

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAP certified

CLIENT: Golder
Work Order: 2109210
Project: 2H21 Coleta Creek Power Plant

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_211001A

| | | | |
|----------------------------------|--------------------------------|---|-----------------------------|
| Sample ID: 2109173-01A MS | Batch ID: 102242 | TestNo: SW6020B | Units: mg/L |
| SampType: MS | Run ID: ICP-MS5_211001A | Analysis Date: 10/1/2021 11:31:00 AM | Prep Date: 9/30/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.193 | 0.00250 | 0.200 | 0.00130 | 95.9 | 75 | 125 | | | |
| Arsenic | 0.189 | 0.00500 | 0.200 | 0 | 94.5 | 75 | 125 | | | |
| Barium | 0.246 | 0.0100 | 0.200 | 0.0518 | 96.9 | 75 | 125 | | | |
| Beryllium | 0.187 | 0.00100 | 0.200 | 0 | 93.7 | 75 | 125 | | | |
| Cadmium | 0.191 | 0.00100 | 0.200 | 0 | 95.3 | 75 | 125 | | | |
| Calcium | 18.6 | 0.300 | 5.00 | 14.1 | 91.6 | 75 | 125 | | | |
| Chromium | 0.191 | 0.00500 | 0.200 | 0 | 95.4 | 75 | 125 | | | |
| Cobalt | 0.191 | 0.00500 | 0.200 | 0 | 95.4 | 75 | 125 | | | |
| Lead | 0.194 | 0.00100 | 0.200 | 0 | 96.9 | 75 | 125 | | | |
| Molybdenum | 0.220 | 0.00500 | 0.200 | 0.0253 | 97.3 | 75 | 125 | | | |
| Selenium | 0.174 | 0.00500 | 0.200 | 0 | 87.2 | 75 | 125 | | | |
| Thallium | 0.193 | 0.00150 | 0.200 | 0 | 96.5 | 75 | 125 | | | |

| | | | |
|-----------------------------------|--------------------------------|---|-----------------------------|
| Sample ID: 2109173-01A MSD | Batch ID: 102242 | TestNo: SW6020B | Units: mg/L |
| SampType: MSD | Run ID: ICP-MS5_211001A | Analysis Date: 10/1/2021 11:34:00 AM | Prep Date: 9/30/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|-------|----------|------|
| Antimony | 0.194 | 0.00250 | 0.200 | 0.00130 | 96.5 | 75 | 125 | 0.686 | 15 | |
| Arsenic | 0.190 | 0.00500 | 0.200 | 0 | 95.0 | 75 | 125 | 0.584 | 15 | |
| Barium | 0.250 | 0.0100 | 0.200 | 0.0518 | 99.4 | 75 | 125 | 1.95 | 15 | |
| Beryllium | 0.184 | 0.00100 | 0.200 | 0 | 92.1 | 75 | 125 | 1.72 | 15 | |
| Cadmium | 0.192 | 0.00100 | 0.200 | 0 | 95.9 | 75 | 125 | 0.588 | 15 | |
| Calcium | 19.3 | 0.300 | 5.00 | 14.1 | 104 | 75 | 125 | 3.25 | 15 | |
| Chromium | 0.191 | 0.00500 | 0.200 | 0 | 95.3 | 75 | 125 | 0.085 | 15 | |
| Cobalt | 0.191 | 0.00500 | 0.200 | 0 | 95.4 | 75 | 125 | 0.060 | 15 | |
| Lead | 0.195 | 0.00100 | 0.200 | 0 | 97.7 | 75 | 125 | 0.800 | 15 | |
| Molybdenum | 0.221 | 0.00500 | 0.200 | 0.0253 | 98.1 | 75 | 125 | 0.644 | 15 | |
| Selenium | 0.170 | 0.00500 | 0.200 | 0 | 84.9 | 75 | 125 | 2.68 | 15 | |
| Thallium | 0.195 | 0.00150 | 0.200 | 0 | 97.5 | 75 | 125 | 0.971 | 15 | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL
DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

CLIENT: Golder
Work Order: 2109210
Project: 2H21 Coletto Creek Power Plant

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_211001A

| | | | |
|------------------------------|--------------------------------|---|--------------------|
| Sample ID: ICV-211001 | Batch ID: R117365 | TestNo: SW6020B | Units: mg/L |
| SampType: ICV | Run ID: ICP-MS5_211001A | Analysis Date: 10/1/2021 10:34:00 AM | Prep Date: |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.101 | 0.00250 | 0.100 | 0 | 101 | 90 | 110 | | | |
| Arsenic | 0.101 | 0.00500 | 0.100 | 0 | 101 | 90 | 110 | | | |
| Barium | 0.102 | 0.0100 | 0.100 | 0 | 102 | 90 | 110 | | | |
| Beryllium | 0.0932 | 0.00100 | 0.100 | 0 | 93.2 | 90 | 110 | | | |
| Cadmium | 0.103 | 0.00100 | 0.100 | 0 | 103 | 90 | 110 | | | |
| Calcium | 2.39 | 0.300 | 2.50 | 0 | 95.4 | 90 | 110 | | | |
| Chromium | 0.104 | 0.00500 | 0.100 | 0 | 104 | 90 | 110 | | | |
| Cobalt | 0.107 | 0.00500 | 0.100 | 0 | 107 | 90 | 110 | | | |
| Lead | 0.101 | 0.00100 | 0.100 | 0 | 101 | 90 | 110 | | | |
| Molybdenum | 0.0978 | 0.00500 | 0.100 | 0 | 97.8 | 90 | 110 | | | |
| Selenium | 0.104 | 0.00500 | 0.100 | 0 | 104 | 90 | 110 | | | |
| Thallium | 0.100 | 0.00150 | 0.100 | 0 | 100 | 90 | 110 | | | |

| | | | |
|-------------------------------|--------------------------------|---|--------------------|
| Sample ID: LCVL-211001 | Batch ID: R117365 | TestNo: SW6020B | Units: mg/L |
| SampType: LCVL | Run ID: ICP-MS5_211001A | Analysis Date: 10/1/2021 10:39:00 AM | Prep Date: |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|----------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.00200 | 0.00250 | 0.00200 | 0 | 100 | 80 | 120 | | | |
| Arsenic | 0.00532 | 0.00500 | 0.00500 | 0 | 106 | 80 | 120 | | | |
| Barium | 0.00485 | 0.0100 | 0.00500 | 0 | 97.0 | 80 | 120 | | | |
| Beryllium | 0.000999 | 0.00100 | 0.00100 | 0 | 99.9 | 80 | 120 | | | |
| Cadmium | 0.00111 | 0.00100 | 0.00100 | 0 | 111 | 80 | 120 | | | |
| Calcium | 0.103 | 0.300 | 0.100 | 0 | 103 | 80 | 120 | | | |
| Chromium | 0.00519 | 0.00500 | 0.00500 | 0 | 104 | 80 | 120 | | | |
| Cobalt | 0.00520 | 0.00500 | 0.00500 | 0 | 104 | 80 | 120 | | | |
| Lead | 0.00102 | 0.00100 | 0.00100 | 0 | 102 | 80 | 120 | | | |
| Molybdenum | 0.00494 | 0.00500 | 0.00500 | 0 | 98.7 | 80 | 120 | | | |
| Selenium | 0.00515 | 0.00500 | 0.00500 | 0 | 103 | 80 | 120 | | | |
| Thallium | 0.00103 | 0.00150 | 0.00100 | 0 | 103 | 80 | 120 | | | |

| | | | |
|-------------------------------|--------------------------------|---|--------------------|
| Sample ID: CCV1-211001 | Batch ID: R117365 | TestNo: SW6020B | Units: mg/L |
| SampType: CCV | Run ID: ICP-MS5_211001A | Analysis Date: 10/1/2021 11:36:00 AM | Prep Date: |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|-----------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.196 | 0.00250 | 0.200 | 0 | 98.2 | 90 | 110 | | | |
| Arsenic | 0.200 | 0.00500 | 0.200 | 0 | 99.8 | 90 | 110 | | | |
| Barium | 0.199 | 0.0100 | 0.200 | 0 | 99.6 | 90 | 110 | | | |
| Beryllium | 0.201 | 0.00100 | 0.200 | 0 | 100 | 90 | 110 | | | |
| Cadmium | 0.197 | 0.00100 | 0.200 | 0 | 98.7 | 90 | 110 | | | |
| Calcium | 4.93 | 0.300 | 5.00 | 0 | 98.6 | 90 | 110 | | | |
| Chromium | 0.200 | 0.00500 | 0.200 | 0 | 100 | 90 | 110 | | | |

Qualifiers:

| | | | |
|----|---|-----|---------------------------------------|
| B | Analyte detected in the associated Method Blank | DF | Dilution Factor |
| J | Analyte detected between MDL and RL | MDL | Method Detection Limit |
| ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| RL | Reporting Limit | S | Spike Recovery outside control limits |
| J | Analyte detected between SDL and RL | N | Parameter not NELAP certified |

CLIENT: Golder
Work Order: 2109210
Project: 2H21 Coleta Creek Power Plant

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_211001A

| | | | |
|-------------------------------|--------------------------------|---|--------------------|
| Sample ID: CCV1-211001 | Batch ID: R117365 | TestNo: SW6020B | Units: mg/L |
| SampType: CCV | Run ID: ICP-MS5_211001A | Analysis Date: 10/1/2021 11:36:00 AM | Prep Date: |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Cobalt | 0.208 | 0.00500 | 0.200 | 0 | 104 | 90 | 110 | | | |
| Lead | 0.198 | 0.00100 | 0.200 | 0 | 98.9 | 90 | 110 | | | |
| Molybdenum | 0.196 | 0.00500 | 0.200 | 0 | 98.0 | 90 | 110 | | | |
| Selenium | 0.208 | 0.00500 | 0.200 | 0 | 104 | 90 | 110 | | | |
| Thallium | 0.198 | 0.00150 | 0.200 | 0 | 99.1 | 90 | 110 | | | |

| | | | |
|-------------------------------|--------------------------------|---|--------------------|
| Sample ID: CCV2-211001 | Batch ID: R117365 | TestNo: SW6020B | Units: mg/L |
| SampType: CCV | Run ID: ICP-MS5_211001A | Analysis Date: 10/1/2021 11:56:00 AM | Prep Date: |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|------------|--------|---------|-----------|---------|------|----------|-----------|------|----------|------|
| Antimony | 0.204 | 0.00250 | 0.200 | 0 | 102 | 90 | 110 | | | |
| Arsenic | 0.208 | 0.00500 | 0.200 | 0 | 104 | 90 | 110 | | | |
| Barium | 0.203 | 0.0100 | 0.200 | 0 | 101 | 90 | 110 | | | |
| Beryllium | 0.199 | 0.00100 | 0.200 | 0 | 99.7 | 90 | 110 | | | |
| Cadmium | 0.209 | 0.00100 | 0.200 | 0 | 105 | 90 | 110 | | | |
| Chromium | 0.211 | 0.00500 | 0.200 | 0 | 105 | 90 | 110 | | | |
| Cobalt | 0.219 | 0.00500 | 0.200 | 0 | 110 | 90 | 110 | | | |
| Lead | 0.203 | 0.00100 | 0.200 | 0 | 102 | 90 | 110 | | | |
| Molybdenum | 0.203 | 0.00500 | 0.200 | 0 | 101 | 90 | 110 | | | |
| Selenium | 0.212 | 0.00500 | 0.200 | 0 | 106 | 90 | 110 | | | |
| Thallium | 0.204 | 0.00150 | 0.200 | 0 | 102 | 90 | 110 | | | |

| | |
|--|---|
| Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAP certified |
|--|---|

CLIENT: Golder
Work Order: 2109210
Project: 2H21 Coleta Creek Power Plant

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_210928A

| Sample ID: DCS2-102216 | Batch ID: 102216 | TestNo: E300 | Units: mg/L | | | | | | | |
|-------------------------------|----------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: DCS2 | Run ID: IC2_210928A | Analysis Date: 9/28/2021 1:38:01 PM | Prep Date: 9/28/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 0.533 | 1.00 | 0.5000 | 0 | 107 | 70 | 130 | 0 | 0 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL

DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAP certified

CLIENT: Golder
Work Order: 2109210
Project: 2H21 Coleta Creek Power Plant

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_211006B

The QC data in batch 102298 applies to the following samples: 2109210-03B

| | | | | | | | | | | |
|-----------------------------|----------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: MB-102298 | Batch ID: 102298 | TestNo: E300 | Units: mg/L | | | | | | | |
| SampType: MBLK | Run ID: IC2_211006B | Analysis Date: 10/6/2021 4:52:16 PM | Prep Date: 10/6/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | |
|----------|--------|------|
| Chloride | <0.300 | 1.00 |
|----------|--------|------|

| | | | | | | | | | | |
|------------------------------|----------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: LCS-102298 | Batch ID: 102298 | TestNo: E300 | Units: mg/L | | | | | | | |
| SampType: LCS | Run ID: IC2_211006B | Analysis Date: 10/6/2021 5:08:16 PM | Prep Date: 10/6/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | |
|----------|------|------|-------|---|-----|----|-----|
| Chloride | 10.1 | 1.00 | 10.00 | 0 | 101 | 90 | 110 |
|----------|------|------|-------|---|-----|----|-----|

| | | | | | | | | | | |
|-------------------------------|----------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: LCSD-102298 | Batch ID: 102298 | TestNo: E300 | Units: mg/L | | | | | | | |
| SampType: LCSD | Run ID: IC2_211006B | Analysis Date: 10/6/2021 5:24:16 PM | Prep Date: 10/6/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | |
|----------|------|------|-------|---|------|----|-----|-------|----|
| Chloride | 9.99 | 1.00 | 10.00 | 0 | 99.9 | 90 | 110 | 0.782 | 20 |
|----------|------|------|-------|---|------|----|-----|-------|----|

| | | | | | | | | | | |
|---------------------------------|----------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: 2110019-01BMS | Batch ID: 102298 | TestNo: E300 | Units: mg/L | | | | | | | |
| SampType: MS | Run ID: IC2_211006B | Analysis Date: 10/6/2021 8:20:16 PM | Prep Date: 10/6/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | |
|----------|------|-----|------|---|------|----|-----|
| Chloride | 1940 | 100 | 2000 | 0 | 96.8 | 90 | 110 |
|----------|------|-----|------|---|------|----|-----|

| | | | | | | | | | | |
|----------------------------------|----------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: 2110019-01BMSD | Batch ID: 102298 | TestNo: E300 | Units: mg/L | | | | | | | |
| SampType: MSD | Run ID: IC2_211006B | Analysis Date: 10/6/2021 8:36:16 PM | Prep Date: 10/6/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | |
|----------|------|-----|------|---|------|----|-----|-------|----|
| Chloride | 1920 | 100 | 2000 | 0 | 96.2 | 90 | 110 | 0.634 | 20 |
|----------|------|-----|------|---|------|----|-----|-------|----|

| | | |
|--------------------|---|--|
| Qualifiers: | <p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p> | <p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAP certified</p> |
|--------------------|---|--|

CLIENT: Golder
Work Order: 2109210
Project: 2H21 Coletto Creek Power Plant

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_211006B

| | | | | | | | | | | |
|------------------------------|----------------------------|---|--------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: ICV-211006 | Batch ID: R117406 | TestNo: E300 | Units: mg/L | | | | | | | |
| SampType: ICV | Run ID: IC2_211006B | Analysis Date: 10/6/2021 12:08:08 PM | Prep Date: | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|----------|------|------|-------|---|------|----|-----|--|--|--|
| Chloride | 24.6 | 1.00 | 25.00 | 0 | 98.5 | 90 | 110 | | | |
|----------|------|------|-------|---|------|----|-----|--|--|--|

| | | | | | | | | | | |
|-------------------------------|----------------------------|--|--------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: CCV1-211006 | Batch ID: R117406 | TestNo: E300 | Units: mg/L | | | | | | | |
| SampType: CCV | Run ID: IC2_211006B | Analysis Date: 10/6/2021 3:52:08 PM | Prep Date: | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|----------|------|------|-------|---|------|----|-----|--|--|--|
| Chloride | 9.94 | 1.00 | 10.00 | 0 | 99.4 | 90 | 110 | | | |
|----------|------|------|-------|---|------|----|-----|--|--|--|

| | | | | | | | | | | |
|-------------------------------|----------------------------|--|--------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: CCV2-211006 | Batch ID: R117406 | TestNo: E300 | Units: mg/L | | | | | | | |
| SampType: CCV | Run ID: IC2_211006B | Analysis Date: 10/6/2021 9:24:15 PM | Prep Date: | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|----------|------|------|-------|---|-----|----|-----|--|--|--|
| Chloride | 10.2 | 1.00 | 10.00 | 0 | 102 | 90 | 110 | | | |
|----------|------|------|-------|---|-----|----|-----|--|--|--|

| | | | | | | | | | | |
|-------------------------------|----------------------------|---|--------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: CCV3-211006 | Batch ID: R117406 | TestNo: E300 | Units: mg/L | | | | | | | |
| SampType: CCV | Run ID: IC2_211006B | Analysis Date: 10/6/2021 11:16:15 PM | Prep Date: | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|----------|------|------|-------|---|-----|----|-----|--|--|--|
| Chloride | 10.3 | 1.00 | 10.00 | 0 | 103 | 90 | 110 | | | |
|----------|------|------|-------|---|-----|----|-----|--|--|--|

| | |
|--|---|
| Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAP certified |
|--|---|

CLIENT: Golder
Work Order: 2109210
Project: 2H21 Coletto Creek Power Plant

ANALYTICAL QC SUMMARY REPORT

RunID: IC4_210930A

| | | | |
|-------------------------------|----------------------------|--|-----------------------------|
| Sample ID: DCS2-102243 | Batch ID: 102243 | TestNo: E300 | Units: mg/L |
| SampType: DCS2 | Run ID: IC4_210930A | Analysis Date: 9/30/2021 4:11:30 PM | Prep Date: 9/30/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Chloride | 0.505 | 1.00 | 0.5000 | 0 | 101 | 70 | 130 | 0 | 0 | |
| Fluoride | 0.163 | 0.400 | 0.2000 | 0 | 81.3 | 70 | 130 | 0 | 0 | |

| | | | |
|-------------------------------|----------------------------|--|-----------------------------|
| Sample ID: DCS3-102243 | Batch ID: 102243 | TestNo: E300 | Units: mg/L |
| SampType: DCS3 | Run ID: IC4_210930A | Analysis Date: 9/30/2021 4:30:30 PM | Prep Date: 9/30/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Sulfate | 3.08 | 3.00 | 3.000 | 0 | 103 | 70 | 130 | 0 | 0 | |

Qualifiers:

- B Analyte detected in the associated Method Blank
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- J Analyte detected between SDL and RL

- DF Dilution Factor
- MDL Method Detection Limit
- R RPD outside accepted control limits
- S Spike Recovery outside control limits
- N Parameter not NELAP certified

CLIENT: Golder
Work Order: 2109210
Project: 2H21 Coleta Creek Power Plant

ANALYTICAL QC SUMMARY REPORT

RunID: IC4_211005B

The QC data in batch 102275 applies to the following samples: 2109210-01B, 2109210-02B, 2109210-03B, 2109210-04B, 2109210-05B, 2109210-06B, 2109210-07B, 2109210-08B, 2109210-09B, 2109210-10B

| | | | |
|-----------------------------|----------------------------|--|-----------------------------|
| Sample ID: MB-102275 | Batch ID: 102275 | TestNo: E300 | Units: mg/L |
| SampType: MBLK | Run ID: IC4_211005B | Analysis Date: 10/5/2021 9:46:19 PM | Prep Date: 10/5/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Chloride | <0.300 | 1.00 | | | | | | | | |
| Fluoride | <0.100 | 0.400 | | | | | | | | |
| Sulfate | <1.00 | 3.00 | | | | | | | | |

| | | | |
|------------------------------|----------------------------|---|-----------------------------|
| Sample ID: LCS-102275 | Batch ID: 102275 | TestNo: E300 | Units: mg/L |
| SampType: LCS | Run ID: IC4_211005B | Analysis Date: 10/5/2021 10:05:19 PM | Prep Date: 10/5/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Chloride | 9.62 | 1.00 | 10.00 | 0 | 96.2 | 90 | 110 | | | |
| Fluoride | 4.01 | 0.400 | 4.000 | 0 | 100 | 90 | 110 | | | |
| Sulfate | 30.8 | 3.00 | 30.00 | 0 | 103 | 90 | 110 | | | |

| | | | |
|------------------------------|----------------------------|---|-----------------------------|
| Sample ID: LCS-102275 | Batch ID: 102275 | TestNo: E300 | Units: mg/L |
| SampType: LCS | Run ID: IC4_211005B | Analysis Date: 10/5/2021 10:24:19 PM | Prep Date: 10/5/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|-------|-----------|---------|------|----------|-----------|-------|----------|------|
| Chloride | 9.59 | 1.00 | 10.00 | 0 | 95.9 | 90 | 110 | 0.235 | 20 | |
| Fluoride | 4.02 | 0.400 | 4.000 | 0 | 100 | 90 | 110 | 0.168 | 20 | |
| Sulfate | 31.1 | 3.00 | 30.00 | 0 | 104 | 90 | 110 | 1.02 | 20 | |

| | | | |
|---------------------------------|----------------------------|---|-----------------------------|
| Sample ID: 2109210-01BMS | Batch ID: 102275 | TestNo: E300 | Units: mg/L |
| SampType: MS | Run ID: IC4_211005B | Analysis Date: 10/5/2021 11:02:19 PM | Prep Date: 10/5/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| Chloride | 321 | 10.0 | 200.0 | 146.1 | 87.3 | 90 | 110 | | | S |
| Fluoride | 194 | 4.00 | 200.0 | 2.073 | 96.1 | 90 | 110 | | | |
| Sulfate | 356 | 30.0 | 200.0 | 168.9 | 93.6 | 90 | 110 | | | |

| | | | |
|----------------------------------|----------------------------|---|-----------------------------|
| Sample ID: 2109210-01BMSD | Batch ID: 102275 | TestNo: E300 | Units: mg/L |
| SampType: MSD | Run ID: IC4_211005B | Analysis Date: 10/5/2021 11:21:19 PM | Prep Date: 10/5/2021 |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| Chloride | 320 | 10.0 | 200.0 | 146.1 | 87.2 | 90 | 110 | 0.064 | 20 | S |
| Fluoride | 194 | 4.00 | 200.0 | 2.073 | 96.0 | 90 | 110 | 0.047 | 20 | |
| Sulfate | 356 | 30.0 | 200.0 | 168.9 | 93.6 | 90 | 110 | 0.042 | 20 | |

| | |
|---|--|
| <p>Qualifiers:</p> <p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p> | <p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAP certified</p> |
|---|--|

CLIENT: Golder
Work Order: 2109210
Project: 2H21 Coletto Creek Power Plant

ANALYTICAL QC SUMMARY REPORT

RunID: IC4_211005B

| Sample ID: 2109228-07BMS | Batch ID: 102275 | TestNo: E300 | Units: mg/L | | | | | | | |
|---------------------------------|----------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: MS | Run ID: IC4_211005B | Analysis Date: 10/6/2021 4:06:18 AM | Prep Date: 10/5/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 235 | 10.0 | 200.0 | 59.61 | 87.8 | 90 | 110 | | | S |
| Fluoride | 195 | 4.00 | 200.0 | 0 | 97.3 | 90 | 110 | | | |
| Sulfate | 205 | 30.0 | 200.0 | 0 | 103 | 90 | 110 | | | |

| Sample ID: 2109228-07BMSD | Batch ID: 102275 | TestNo: E300 | Units: mg/L | | | | | | | |
|----------------------------------|----------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| SampType: MSD | Run ID: IC4_211005B | Analysis Date: 10/6/2021 4:25:18 AM | Prep Date: 10/5/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 239 | 10.0 | 200.0 | 59.61 | 89.8 | 90 | 110 | 1.68 | 20 | |
| Fluoride | 199 | 4.00 | 200.0 | 0 | 99.5 | 90 | 110 | 2.21 | 20 | |
| Sulfate | 209 | 30.0 | 200.0 | 0 | 105 | 90 | 110 | 1.91 | 20 | |

| | |
|--|---|
| Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAP certified |
|--|---|

CLIENT: Golder
Work Order: 2109210
Project: 2H21 Coletto Creek Power Plant

ANALYTICAL QC SUMMARY REPORT

RunID: IC4_211005B

| | | | |
|------------------------------|----------------------------|--|--------------------|
| Sample ID: ICV-211005 | Batch ID: R117396 | TestNo: E300 | Units: mg/L |
| SampType: ICV | Run ID: IC4_211005B | Analysis Date: 10/5/2021 1:42:32 PM | Prep Date: |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Chloride | 25.2 | 1.00 | 25.00 | 0 | 101 | 90 | 110 | | | |
| Fluoride | 10.3 | 0.400 | 10.00 | 0 | 103 | 90 | 110 | | | |
| Sulfate | 79.5 | 3.00 | 75.00 | 0 | 106 | 90 | 110 | | | |

| | | | |
|-------------------------------|----------------------------|--|--------------------|
| Sample ID: CCV1-211005 | Batch ID: R117396 | TestNo: E300 | Units: mg/L |
| SampType: CCV | Run ID: IC4_211005B | Analysis Date: 10/5/2021 9:08:19 PM | Prep Date: |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Chloride | 9.63 | 1.00 | 10.00 | 0 | 96.3 | 90 | 110 | | | |
| Fluoride | 4.01 | 0.400 | 4.000 | 0 | 100 | 90 | 110 | | | |
| Sulfate | 30.9 | 3.00 | 30.00 | 0 | 103 | 90 | 110 | | | |

| | | | |
|-------------------------------|----------------------------|--|--------------------|
| Sample ID: CCV2-211005 | Batch ID: R117396 | TestNo: E300 | Units: mg/L |
| SampType: CCV | Run ID: IC4_211005B | Analysis Date: 10/6/2021 3:09:18 AM | Prep Date: |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Chloride | 9.58 | 1.00 | 10.00 | 0 | 95.8 | 90 | 110 | | | |
| Fluoride | 4.02 | 0.400 | 4.000 | 0 | 101 | 90 | 110 | | | |
| Sulfate | 30.8 | 3.00 | 30.00 | 0 | 103 | 90 | 110 | | | |

| | | | |
|-------------------------------|----------------------------|--|--------------------|
| Sample ID: CCV3-211005 | Batch ID: R117396 | TestNo: E300 | Units: mg/L |
| SampType: CCV | Run ID: IC4_211005B | Analysis Date: 10/6/2021 8:13:18 AM | Prep Date: |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Chloride | 9.62 | 1.00 | 10.00 | 0 | 96.2 | 90 | 110 | | | |
| Fluoride | 4.05 | 0.400 | 4.000 | 0 | 101 | 90 | 110 | | | |
| Sulfate | 31.2 | 3.00 | 30.00 | 0 | 104 | 90 | 110 | | | |

| | | | |
|-------------------------------|----------------------------|---|--------------------|
| Sample ID: CCV4-211005 | Batch ID: R117396 | TestNo: E300 | Units: mg/L |
| SampType: CCV | Run ID: IC4_211005B | Analysis Date: 10/6/2021 12:39:18 PM | Prep Date: |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|----------|--------|-------|-----------|---------|------|----------|-----------|------|----------|------|
| Fluoride | 4.03 | 0.400 | 4.000 | 0 | 101 | 90 | 110 | | | |
| Sulfate | 31.2 | 3.00 | 30.00 | 0 | 104 | 90 | 110 | | | |

Qualifiers:

| | |
|---|---|
| B Analyte detected in the associated Method Blank | DF Dilution Factor |
| J Analyte detected between MDL and RL | MDL Method Detection Limit |
| ND Not Detected at the Method Detection Limit | R RPD outside accepted control limits |
| RL Reporting Limit | S Spike Recovery outside control limits |
| J Analyte detected between SDL and RL | N Parameter not NELAP certified |

CLIENT: Golder
Work Order: 2109210
Project: 2H21 Coleta Creek Power Plant

ANALYTICAL QC SUMMARY REPORT

RunID: WC_210930E

The QC data in batch 102241 applies to the following samples: 2109210-01B, 2109210-02B, 2109210-03B, 2109210-04B, 2109210-05B, 2109210-06B, 2109210-07B, 2109210-08B, 2109210-09B, 2109210-10B

| | | | | | | | | | | |
|--|---------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: MB-102241 | Batch ID: 102241 | TestNo: M2540C | Units: mg/L | | | | | | | |
| SampType: MBLK | Run ID: WC_210930E | Analysis Date: 9/30/2021 4:05:00 PM | Prep Date: 9/30/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Total Dissolved Solids (Residue, Filtera | | <10.0 | 10.0 | | | | | | | |

| | | | | | | | | | | |
|--|---------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: LCS-102241 | Batch ID: 102241 | TestNo: M2540C | Units: mg/L | | | | | | | |
| SampType: LCS | Run ID: WC_210930E | Analysis Date: 9/30/2021 4:05:00 PM | Prep Date: 9/30/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Total Dissolved Solids (Residue, Filtera | | 749 | 10.0 | 745.6 | 0 | 100 | 90 | 113 | | |

| | | | | | | | | | | |
|--|---------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: 2109214-01A-DUP | Batch ID: 102241 | TestNo: M2540C | Units: mg/L | | | | | | | |
| SampType: DUP | Run ID: WC_210930E | Analysis Date: 9/30/2021 4:05:00 PM | Prep Date: 9/30/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Total Dissolved Solids (Residue, Filtera | | 1080 | 50.0 | 0 | 1110 | | | 3.20 | 5 | |

| | | | | | | | | | | |
|--|---------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: 2109214-02A-DUP | Batch ID: 102241 | TestNo: M2540C | Units: mg/L | | | | | | | |
| SampType: DUP | Run ID: WC_210930E | Analysis Date: 9/30/2021 4:05:00 PM | Prep Date: 9/30/2021 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Total Dissolved Solids (Residue, Filtera | | 1120 | 50.0 | 0 | 1150 | | | 2.64 | 5 | |

- | | |
|--|---|
| <p>Qualifiers:</p> <ul style="list-style-type: none"> B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL | <ul style="list-style-type: none"> DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAP certified |
|--|---|

CLIENT: Golder
Work Order: 2109210
Project: 2H21 Coleta Creek Power Plant

MQL SUMMARY REPORT

| TestNo: E300 | MDL | MQL |
|---------------------|-------------|-------------|
| Analyte | mg/L | mg/L |
| Chloride | 0.300 | 1.00 |
| Fluoride | 0.100 | 0.400 |
| Sulfate | 1.00 | 3.00 |

| TestNo: SW6020B | MDL | MQL |
|------------------------|-------------|-------------|
| Analyte | mg/L | mg/L |
| Antimony | 0.000800 | 0.00250 |
| Arsenic | 0.00200 | 0.00500 |
| Barium | 0.00300 | 0.0100 |
| Beryllium | 0.000300 | 0.00100 |
| Boron | 0.0100 | 0.0300 |
| Cadmium | 0.000300 | 0.00100 |
| Calcium | 0.100 | 0.300 |
| Chromium | 0.00200 | 0.00500 |
| Cobalt | 0.00300 | 0.00500 |
| Lead | 0.000300 | 0.00100 |
| Lithium | 0.00500 | 0.0100 |
| Molybdenum | 0.00200 | 0.00500 |
| Selenium | 0.00200 | 0.00500 |
| Thallium | 0.000500 | 0.00150 |

| TestNo: SW7470A | MDL | MQL |
|------------------------|-------------|-------------|
| Analyte | mg/L | mg/L |
| Mercury | 0.0000800 | 0.000200 |

| TestNo: M2540C | MDL | MQL |
|---------------------------------------|-------------|-------------|
| Analyte | mg/L | mg/L |
| Total Dissolved Solids (Residue, Filt | 10.0 | 10.0 |

Qualifiers: MQL -Method Quantitation Limit as defined by TRRP
MDL -Method Detection Limit as defined by TRRP

DHL Analytical, Inc.

Sample Delivery Group: L1411846
Samples Received: 10/01/2021
Project Number: 2109210
Description:

Report To: John DuPont
2300 Double Creek Drive
Round Rock, TX 78664

Entire Report Reviewed By:



Donna Eidson
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

APPENDIX E-Revision 2 October 10, 2023

ACCOUNT:
DHL Analytical, Inc.

PROJECT:
2109210










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SDG:
L1411846

DATE/TIME:
11/01/21 14:23

PAGE:
1 of 21

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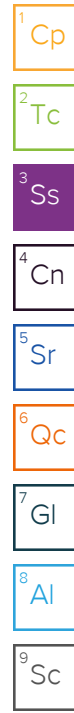
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SAMPLE SUMMARY

BU-5 L141846-01 Non-Potable Water

Collected by _____ Collected date/time 09/28/21 08:20 Received date/time 10/01/21 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method Calculation | WG1754687 | 1 | 10/26/21 10:35 | 10/28/21 17:40 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1754687 | 1 | 10/26/21 10:35 | 10/28/21 17:40 | RGT | Mt. Juliet, TN |



MW-4 L141846-02 Non-Potable Water

Collected by _____ Collected date/time 09/28/21 09:20 Received date/time 10/01/21 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method Calculation | WG1754687 | 1 | 10/26/21 10:35 | 10/28/21 17:40 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1754687 | 1 | 10/26/21 10:35 | 10/28/21 17:40 | RGT | Mt. Juliet, TN |

BU-21 L141846-03 Non-Potable Water

Collected by _____ Collected date/time 09/28/21 10:20 Received date/time 10/01/21 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method Calculation | WG1754687 | 1 | 10/26/21 10:35 | 10/28/21 17:40 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1754687 | 1 | 10/26/21 10:35 | 10/28/21 17:40 | RGT | Mt. Juliet, TN |

DUP 101 L141846-04 Non-Potable Water

Collected by _____ Collected date/time 09/28/21 10:30 Received date/time 10/01/21 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method Calculation | WG1754687 | 1 | 10/26/21 10:35 | 10/28/21 17:40 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1754687 | 1 | 10/26/21 10:35 | 10/28/21 17:40 | RGT | Mt. Juliet, TN |

MW-8 L141846-05 Non-Potable Water

Collected by _____ Collected date/time 09/28/21 11:20 Received date/time 10/01/21 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method Calculation | WG1754687 | 1 | 10/26/21 10:35 | 10/28/21 17:40 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1754687 | 1 | 10/26/21 10:35 | 10/28/21 17:40 | RGT | Mt. Juliet, TN |

MW-6 L141846-06 Non-Potable Water

Collected by _____ Collected date/time 09/28/21 12:15 Received date/time 10/01/21 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method Calculation | WG1754687 | 1 | 10/26/21 10:35 | 10/28/21 17:40 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1754687 | 1 | 10/26/21 10:35 | 10/28/21 17:40 | RGT | Mt. Juliet, TN |

MW-11 L141846-07 Non-Potable Water

Collected by _____ Collected date/time 09/28/21 13:15 Received date/time 10/01/21 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method Calculation | WG1754687 | 1 | 10/26/21 10:35 | 10/28/21 17:40 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1754687 | 1 | 10/26/21 10:35 | 10/28/21 17:40 | RGT | Mt. Juliet, TN |

SAMPLE SUMMARY

MW-9 L1411846-08 Non-Potable Water

Collected by _____ Collected date/time 09/28/21 14:00 Received date/time 10/01/21 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method Calculation | WG1754687 | 1 | 10/26/21 10:35 | 10/28/21 17:40 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1754687 | 1 | 10/26/21 10:35 | 10/28/21 17:40 | RGT | Mt. Juliet, TN |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

MW-5 L1411846-09 Non-Potable Water

Collected by _____ Collected date/time 09/28/21 14:45 Received date/time 10/01/21 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method Calculation | WG1754687 | 1 | 10/26/21 10:35 | 10/28/21 17:40 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1754687 | 1 | 10/26/21 10:35 | 10/28/21 17:40 | RGT | Mt. Juliet, TN |

MW-10 L1411846-10 Non-Potable Water

Collected by _____ Collected date/time 09/28/21 15:25 Received date/time 10/01/21 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method Calculation | WG1754687 | 1 | 10/26/21 10:35 | 10/28/21 17:40 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1754687 | 1 | 10/26/21 10:35 | 10/28/21 17:40 | RGT | Mt. Juliet, TN |

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Donna Eidson
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 2.06 | | 0.315 | 0.532 | 10/27/2021 12:05 | WG1759106 |
| (T) Barium | 99.9 | | | 62.0-143 | 10/27/2021 12:05 | WG1759106 |
| (T) Yttrium | 102 | | | 79.0-136 | 10/27/2021 12:05 | WG1759106 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 2.29 | | 0.546 | 0.815 | 10/28/2021 17:40 | WG1754687 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.239 | J | 0.231 | 0.283 | 10/28/2021 17:40 | WG1754687 |
| (T) Barium-133 | 96.9 | | | 30.0-143 | 10/28/2021 17:40 | WG1754687 |

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 1.91 | | 0.312 | 0.53 | 10/27/2021 12:05 | WG1759106 |
| (T) Barium | 94.5 | | | 62.0-143 | 10/27/2021 12:05 | WG1759106 |
| (T) Yttrium | 96.1 | | | 79.0-136 | 10/27/2021 12:05 | WG1759106 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 2.06 | | 0.510 | 0.811 | 10/28/2021 17:40 | WG1754687 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.151 | J | 0.198 | 0.281 | 10/28/2021 17:40 | WG1754687 |
| (T) Barium-133 | 91.4 | | | 30.0-143 | 10/28/2021 17:40 | WG1754687 |

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 1.81 | | 0.367 | 0.641 | 10/27/2021 12:05 | WG1759106 |
| (T) Barium | 93.0 | | | 62.0-143 | 10/27/2021 12:05 | WG1759106 |
| (T) Yttrium | 96.9 | | | 79.0-136 | 10/27/2021 12:05 | WG1759106 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 2.83 | | 0.851 | 0.997 | 10/28/2021 17:40 | WG1754687 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 1.02 | | 0.484 | 0.356 | 10/28/2021 17:40 | WG1754687 |
| (T) Barium-133 | 88.2 | | | 30.0-143 | 10/28/2021 17:40 | WG1754687 |

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 1.28 | | 0.346 | 0.618 | 10/27/2021 12:05 | WG1759106 |
| (T) Barium | 92.2 | | | 62.0-143 | 10/27/2021 12:05 | WG1759106 |
| (T) Yttrium | 101 | | | 79.0-136 | 10/27/2021 12:05 | WG1759106 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 1.71 | | 0.639 | 0.86 | 10/28/2021 17:40 | WG1754687 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.426 | | 0.293 | 0.242 | 10/28/2021 17:40 | WG1754687 |
| (T) Barium-133 | 83.0 | | | 30.0-143 | 10/28/2021 17:40 | WG1754687 |

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 1.23 | | 0.373 | 0.67 | 10/27/2021 12:05 | WG1759106 |
| (T) Barium | 94.7 | | | 62.0-143 | 10/27/2021 12:05 | WG1759106 |
| (T) Yttrium | 100 | | | 79.0-136 | 10/27/2021 12:05 | WG1759106 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 1.32 | | 0.528 | 0.927 | 10/28/2021 17:40 | WG1754687 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.0886 | <u>U</u> | 0.155 | 0.257 | 10/28/2021 17:40 | WG1754687 |
| (T) Barium-133 | 70.0 | | | 30.0-143 | 10/28/2021 17:40 | WG1754687 |

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 1.60 | | 0.547 | 0.991 | 10/27/2021 12:05 | WG1759106 |
| (T) Barium | 94.8 | | | 62.0-143 | 10/27/2021 12:05 | WG1759106 |
| (T) Yttrium | 89.9 | | | 79.0-136 | 10/27/2021 12:05 | WG1759106 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 1.94 | | 0.835 | 1.28 | 10/28/2021 17:40 | WG1754687 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.334 | | 0.288 | 0.289 | 10/28/2021 17:40 | WG1754687 |
| (T) Barium-133 | 68.7 | | | 30.0-143 | 10/28/2021 17:40 | WG1754687 |

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 2.74 | | 0.471 | 0.813 | 10/27/2021 12:05 | WG1759106 |
| (T) Barium | 87.8 | | | 62.0-143 | 10/27/2021 12:05 | WG1759106 |
| (T) Yttrium | 94.0 | | | 79.0-136 | 10/27/2021 12:05 | WG1759106 |

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 2.77 | | 0.578 | 1.05 | 10/28/2021 17:40 | WG1754687 |

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.0336 | <u>U</u> | 0.107 | 0.236 | 10/28/2021 17:40 | WG1754687 |
| (T) Barium-133 | 81.9 | | | 30.0-143 | 10/28/2021 17:40 | WG1754687 |

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 1.75 | | 0.392 | 0.693 | 10/27/2021 12:05 | WG1759106 |
| (T) Barium | 98.3 | | | 62.0-143 | 10/27/2021 12:05 | WG1759106 |
| (T) Yttrium | 95.4 | | | 79.0-136 | 10/27/2021 12:05 | WG1759106 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 2.03 | | 0.651 | 0.988 | 10/28/2021 17:40 | WG1754687 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.278 | J | 0.259 | 0.295 | 10/28/2021 17:40 | WG1754687 |
| (T) Barium-133 | 83.7 | | | 30.0-143 | 10/28/2021 17:40 | WG1754687 |

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 1.74 | | 0.322 | 0.556 | 10/27/2021 12:05 | WG1759106 |
| (T) Barium | 90.9 | | | 62.0-143 | 10/27/2021 12:05 | WG1759106 |
| (T) Yttrium | 102 | | | 79.0-136 | 10/27/2021 12:05 | WG1759106 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 2.05 | | 0.576 | 0.811 | 10/28/2021 17:40 | WG1754687 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.311 | | 0.254 | 0.255 | 10/28/2021 17:40 | WG1754687 |
| (T) Barium-133 | 88.0 | | | 30.0-143 | 10/28/2021 17:40 | WG1754687 |

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.472 | J | 0.307 | 0.571 | 10/27/2021 12:05 | WG1759106 |
| (T) Barium | 101 | | | 62.0-143 | 10/27/2021 12:05 | WG1759106 |
| (T) Yttrium | 98.1 | | | 79.0-136 | 10/27/2021 12:05 | WG1759106 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.654 | J | 0.618 | 1.06 | 10/28/2021 17:40 | WG1754687 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.182 | J | 0.311 | 0.487 | 10/28/2021 17:40 | WG1754687 |
| (T) Barium-133 | 67.3 | | | 30.0-143 | 10/28/2021 17:40 | WG1754687 |

Method Blank (MB)

(MB) R3723031-1 10/27/21 12:05

| Analyte | MB Result pCi/l | MB Qualifier | MB Uncertainty + / - | MB MDA pCi/l |
|-------------|--------------------|--------------|-------------------------|-----------------|
| Radium-228 | -0.174 | <u>U</u> | 0.245 | 0.472 |
| (T) Barium | 90.5 | | 90.5 | |
| (T) Yttrium | 100 | | 100 | |

L1411370-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1411370-01 10/27/21 12:05 • (DUP) R3723031-5 10/27/21 12:05

| Analyte | Original Result pCi/l | Original Uncertainty + / - | DUP Result pCi/l | DUP Uncertainty + / - | Dilution | DUP RPD % | DUP RER | DUP Qualifier | DUP RPD Limits % | DUP RER Limit |
|-------------|--------------------------|-------------------------------|---------------------|--------------------------|----------|--------------|---------|---------------|---------------------|---------------|
| Radium-228 | 3.81 | 0.371 | 2.81 | 0.890 | 1 | 30.2 | 1.04 | | 20 | 3 |
| (T) Barium | 113 | | 103 | 103 | | | | | | |
| (T) Yttrium | 96.7 | | 94.3 | 94.3 | | | | | | |

Laboratory Control Sample (LCS)

(LCS) R3723031-2 10/27/21 12:05

| Analyte | Spike Amount pCi/l | LCS Result pCi/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|-------------|-----------------------|---------------------|---------------|------------------|---------------|
| Radium-228 | 5.00 | 4.94 | 98.7 | 80.0-120 | |
| (T) Barium | | | 95.4 | | |
| (T) Yttrium | | | 97.9 | | |

L1411846-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1411846-03 10/27/21 12:05 • (MS) R3723031-3 10/27/21 12:05 • (MSD) R3723031-4 10/27/21 12:05

| Analyte | Spike Amount pCi/l | Original Result pCi/l | MS Result pCi/l | MSD Result pCi/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | MS RER | RPD Limits % |
|-------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|--------|-----------------|
| Radium-228 | 16.7 | 1.81 | 19.6 | 20.8 | 106 | 113 | 1 | 70.0-130 | | | 5.90 | | 20 |
| (T) Barium | | 93.0 | | | 101 | 97.6 | | | | | | | |
| (T) Yttrium | | 96.9 | | | 103 | 96.6 | | | | | | | |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3723817-1 10/28/21 17:40

| Analyte | MB Result | MB Qualifier | MB Uncertainty | MB MDA |
|----------------|-----------|--------------|----------------|--------|
| | pCi/l | | + / - | pCi/l |
| Radium-226 | 0.0205 | ↓ | 0.0318 | 0.0484 |
| (T) Barium-133 | 110 | | 110 | |

L1411846-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1411846-10 10/28/21 17:40 • (DUP) R3723817-5 10/28/21 17:40

| Analyte | Original Result | Original Uncertainty | DUP Result | DUP Uncertainty | Dilution | DUP RPD | DUP RER | DUP Qualifier | DUP RPD Limits | DUP RER Limit |
|----------------|-----------------|----------------------|------------|-----------------|----------|---------|---------|---------------|----------------|---------------|
| | pCi/l | + / - | pCi/l | + / - | | % | | | % | |
| Radium-226 | 0.182 | 0.311 | 0.0968 | 0.150 | 1 | 60.9 | 0.246 | ↓ | 20 | 3 |
| (T) Barium-133 | 67.3 | | 80.3 | 80.3 | | | | | | |

Laboratory Control Sample (LCS)

(LCS) R3723817-2 10/28/21 17:40

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|----------------|--------------|------------|----------|-------------|---------------|
| | pCi/l | pCi/l | % | % | |
| Radium-226 | 5.02 | 4.12 | 82.1 | 80.0-120 | |
| (T) Barium-133 | | | 80.3 | | |

L1411846-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1411846-01 10/28/21 17:40 • (MS) R3723817-3 10/28/21 17:40 • (MSD) R3723817-4 10/28/21 17:40

| Analyte | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | MS RER | RPD Limits |
|----------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|--------|------------|
| | pCi/l | pCi/l | pCi/l | pCi/l | % | % | | % | | | % | | % |
| Radium-226 | 20.1 | 0.239 | 17.6 | 17.0 | 86.4 | 83.2 | 1 | 75.0-125 | | | 3.70 | | 20 |
| (T) Barium-133 | | 96.9 | | | 110 | 101 | | | | | | | |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

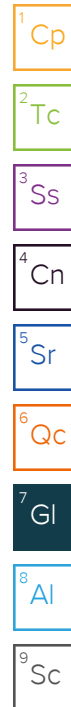
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

| | |
|------------------------------|--|
| MDA | Minimum Detectable Activity. |
| Rec. | Recovery. |
| RER | Replicate Error Ratio. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| (T) | Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation. |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Uncertainty (Radiochemistry) | Confidence level of 2 sigma. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

Qualifier Description

| | |
|---|---|
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| U | Below Detectable Limits: Indicates that the analyte was not detected. |



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| | | | |
|-------------------------------|-------------|-----------------------------|------------------|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey–NELAP | TN002 |
| California | 2932 | New Mexico ¹ | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina ¹ | DW21704 |
| Georgia | NELAP | North Carolina ³ | 41 |
| Georgia ¹ | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio–VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LA000356 |
| Kentucky ^{1,6} | KY90010 | South Carolina | 84004002 |
| Kentucky ² | 16 | South Dakota | n/a |
| Louisiana | AI30792 | Tennessee ^{1,4} | 2006 |
| Louisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas ⁵ | LAB0152 |
| Maryland | 324 | Utah | TN000032021-11 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 110033 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 998093910 |
| Montana | CERT0086 | Wyoming | A2LA |
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 ⁵ | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA–Crypto | TN00003 | | |

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

DHL Analytical, Inc.
 2300 Double Creek Drive
 Round Rock, TX 78664

CHAIN-OF-CUSTODY RECORD

TEL: (512) 388-8222 FAX:
 Work Order: 2109210

B053

Subcontractor:

Pace Analytical
 12065 Lebanon Rd
 Mt. Juliet, TN 37122

TEL: (615) 773-5923
 FAX:
 Acct #: DHLRRTX


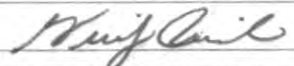
L1411846

29-Sep-21

| Sample ID | Matrix | DHL# | Date Collected | Bottle Type | Requested Tests | | | | | | | |
|-----------|---------|------|-------------------|-------------|-----------------|--------------|--|--|--|--|--|-----|
| | | | | | Ra-228 | Ra-226 | | | | | | |
| | | | | | E904.0 | M7500 Ra B M | | | | | | |
| BU-5 | Aqueous | 01C | 09/28/21 08:20 AM | 1LHDPEHNO3 | | 1 | | | | | | -01 |
| BU-5 | Aqueous | 01D | 09/28/21 08:20 AM | 1LHDPEHNO3 | 1 | | | | | | | -01 |
| MW-4 | Aqueous | 02C | 09/28/21 09:20 AM | 1LHDPEHNO3 | | 1 | | | | | | -02 |
| MW-4 | Aqueous | 02D | 09/28/21 09:20 AM | 1LHDPEHNO3 | 1 | | | | | | | -02 |
| BU-21 | Aqueous | 03C | 09/28/21 10:20 AM | 1LHDPEHNO3 | | 1 | | | | | | -03 |
| BU-21 | Aqueous | 03D | 09/28/21 10:20 AM | 1LHDPEHNO3 | 1 | | | | | | | -03 |
| Dup 101 | Aqueous | 04C | 09/28/21 10:30 AM | 1LHDPEHNO3 | | 1 | | | | | | -04 |
| Dup 101 | Aqueous | 04D | 09/28/21 10:30 AM | 1LHDPEHNO3 | 1 | | | | | | | -04 |
| MW-8 | Aqueous | 05C | 09/28/21 11:20 AM | 1LHDPEHNO3 | | 1 | | | | | | -05 |
| MW-8 | Aqueous | 05D | 09/28/21 11:20 AM | 1LHDPEHNO3 | 1 | | | | | | | -05 |
| MW-6 | Aqueous | 06C | 09/28/21 12:15 PM | 1LHDPEHNO3 | | 1 | | | | | | -06 |
| MW-6 | Aqueous | 06D | 09/28/21 12:15 PM | 1LHDPEHNO3 | 1 | | | | | | | -06 |
| MW-11 | Aqueous | 07C | 09/28/21 01:15 PM | 1LHDPEHNO3 | | 1 | | | | | | -07 |
| MW-11 | Aqueous | 07D | 09/28/21 01:15 PM | 1LHDPEHNO3 | 1 | | | | | | | -07 |
| MW-9 | Aqueous | 08C | 09/28/21 02:00 PM | 1LHDPEHNO3 | | 1 | | | | | | -08 |
| MW-9 | Aqueous | 08D | 09/28/21 02:00 PM | 1LHDPEHNO3 | 1 | | | | | | | -08 |
| MW-5 | Aqueous | 09C | 09/28/21 02:45 PM | 1LHDPEHNO3 | | 1 | | | | | | -09 |

General Comments:

Please analyze these samples with Normal Turnaround Time.
 Report Ra-226, Ra-228 & Combined per Specs.
 Quality Control Package Needed: Standard - NELAC Rad Test compliant
 Email to cac@dhlanalytical.com & dupont@dhlanalytical.com

| | | | |
|--|-------------------------|--|---------------------------|
| Relinquished by:  | Date/Time: 9/29/21 1800 | Received by:  | Date/Time: 10/01/21 10:00 |
| Relinquished by: _____ | Date/Time: _____ | Received by: _____ | Date/Time: _____ |

23.3 + 0 = 23.3 A7K

DHL Analytical, Inc.
 2300 Double Creek Drive
 Round Rock, TX 78664

CHAIN-OF-CUSTODY RECORD

TEL: (512) 388-8222 FAX:
 Work Order: 2109210

Subcontractor:

Pace Analytical
 12065 Lebanon Rd
 Mt. Juliet, TN 37122

TEL: (615) 773-5923
 FAX:
 Acct #: DHLRRTX

LH11846
 29-Sep-21


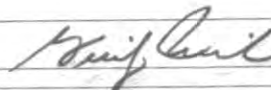
| Sample ID | Matrix | DHL# | Date Collected | Bottle Type | Requested Tests | | | | | | |
|-----------|---------|------|-------------------|-------------|-----------------|--------------|--|--|--|--|-----|
| | | | | | Ra-228 | Ra-226 | | | | | |
| | | | | | E904.0 | M7500 Ra B M | | | | | |
| MW-5 | Aqueous | 09D | 09/28/21 02:45 PM | 1LHDPEHNO3 | 1 | | | | | | -09 |
| MW-10 | Aqueous | 10C | 09/28/21 03:25 PM | 1LHDPEHNO3 | | 1 | | | | | -10 |
| MW-10 | Aqueous | 10D | 09/28/21 03:25 PM | 1LHDPEHNO3 | 1 | | | | | | -10 |

Sample Receipt Checklist

COC Seal Present/Intact: Y N If Applicable
 COC Signed/Accurate: Y N VOA Zero Headspace: Y N
 Bottles arrive intact: Y N Pres. Correct/Check: Y N
 Correct bottles used: Y N
 Sufficient volume sent: Y N
 RAD Screen <0.5 mR/hr: Y N

General Comments:

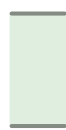
Please analyze these samples with Normal Turnaround Time.
 Report Ra-226, Ra-228 & Combined per Specs.
 Quality Control Package Needed: Standard - NELAC Rad Test compliant
 Email to cac@dhlanalytical.com & dupont@dhlanalytical.com

| | | | |
|--|-------------------------|--|---------------------------|
| Relinquished by:  | Date/Time: 9/29/21 1800 | Received by:  | Date/Time: 10/01/21 10:00 |
| Relinquished by: | | Received by: | |

23.375 = 23.3
197A

ATTACHMENT 2
2021 APPENDIX IV CONFIDENCE INTERVAL GRAPHS

EXPLANATION



95% Upper confidence limit

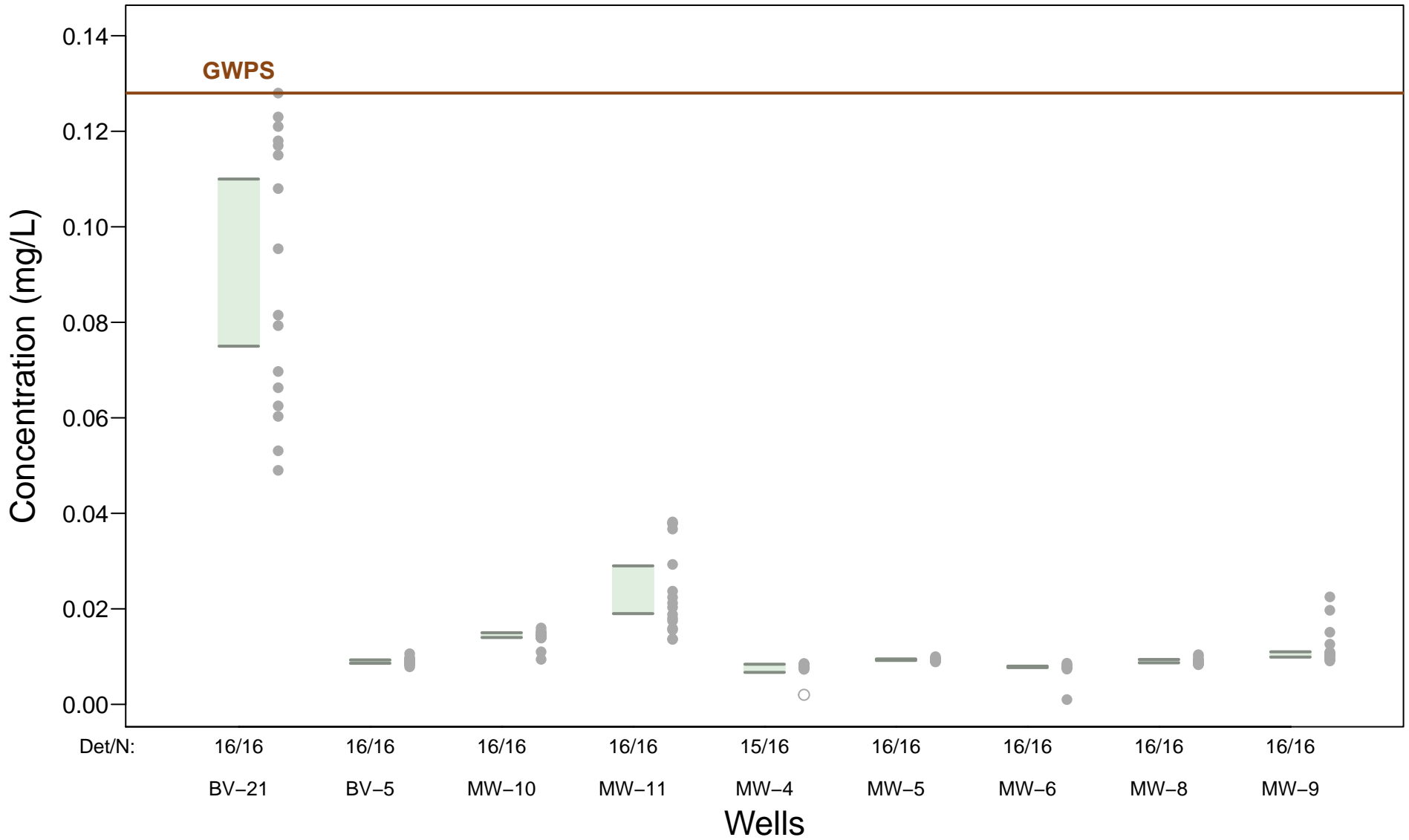
95% Lower confidence limit

● Detected sample concentration

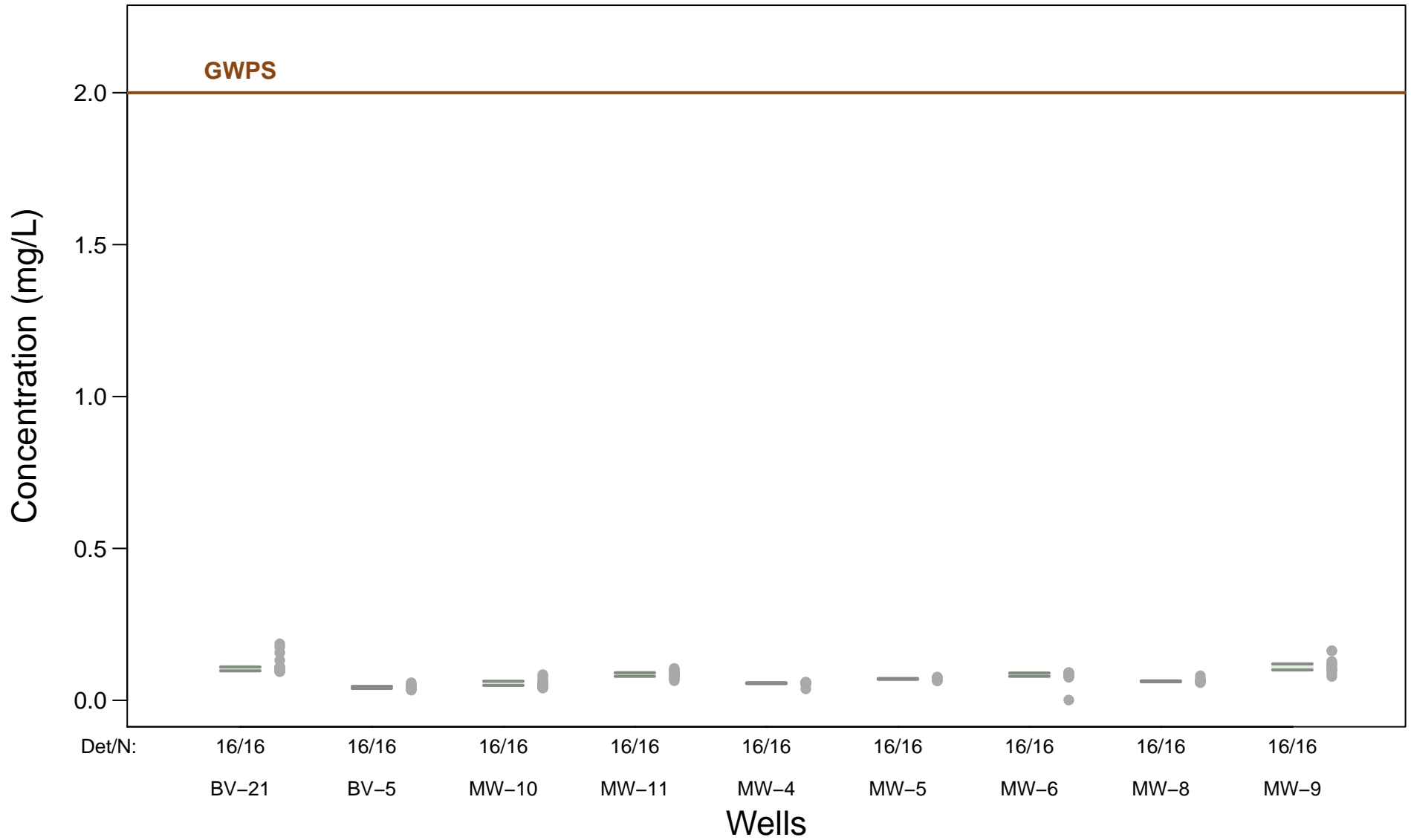
○ Non-detect sample result (concentration set to laboratory reporting limit)

Note: An SSL is indicated if the lower confidence interval exceeds the GWPS (SSLs are not indicated).

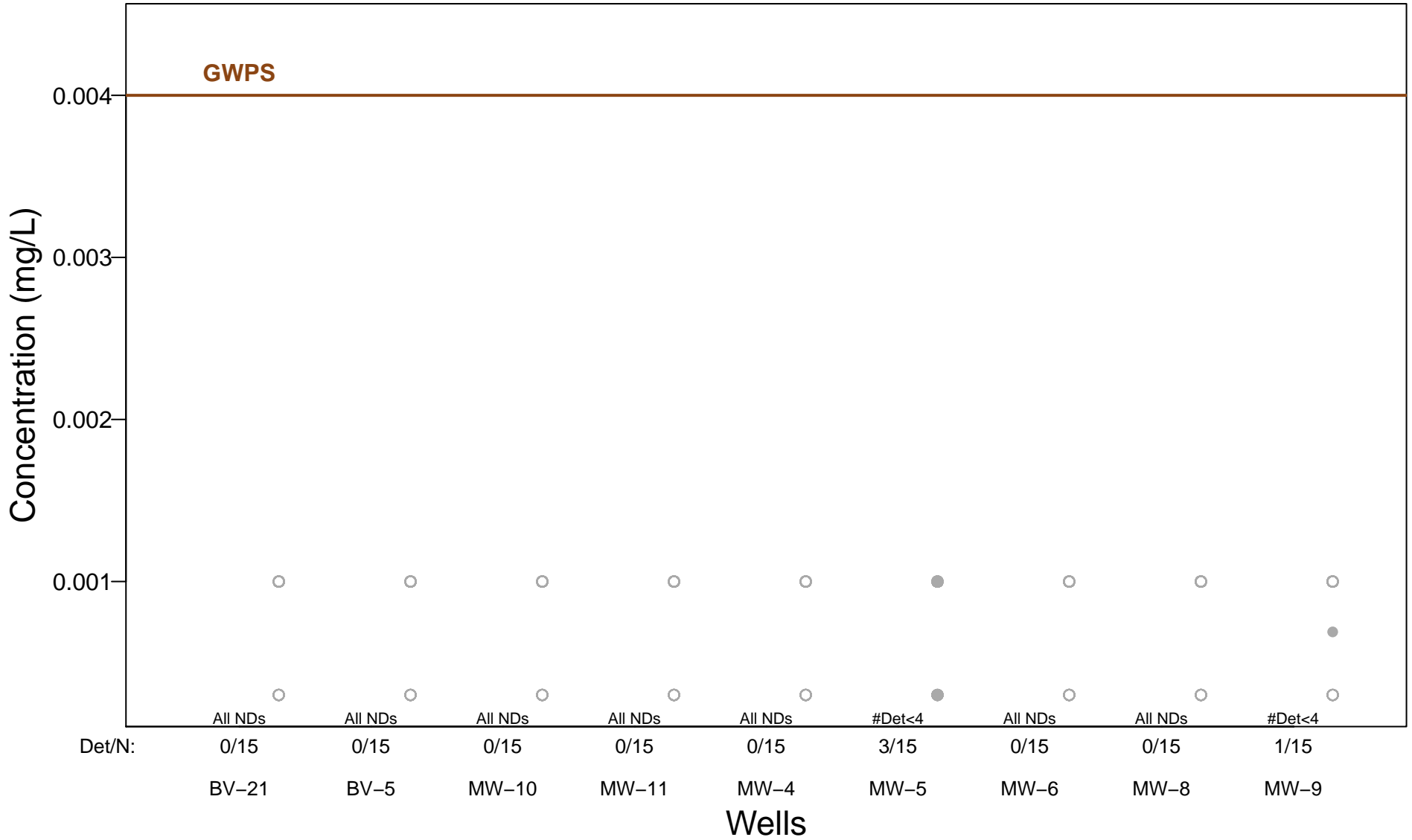
Arsenic – 95% Confidence Intervals



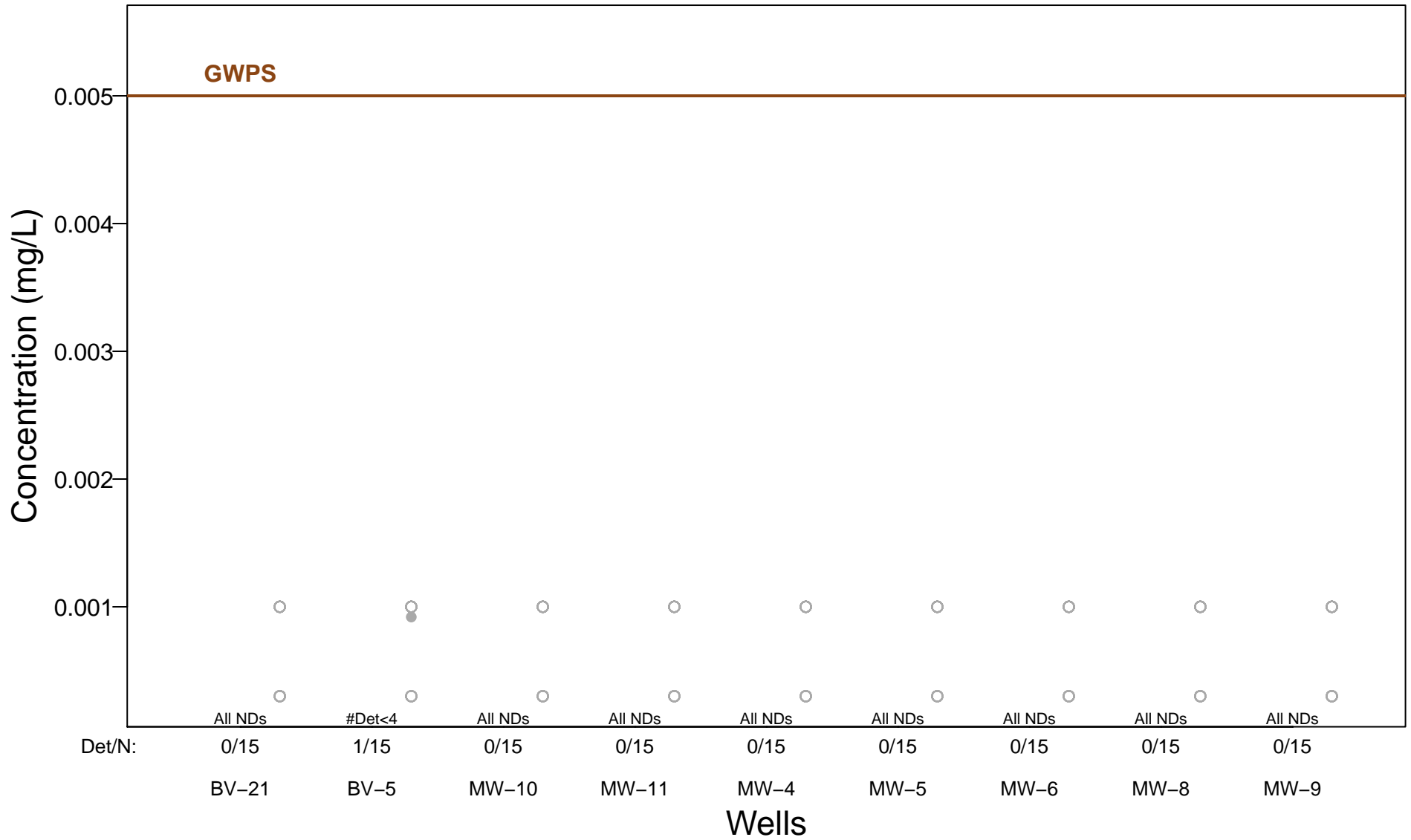
Barium – 95% Confidence Intervals



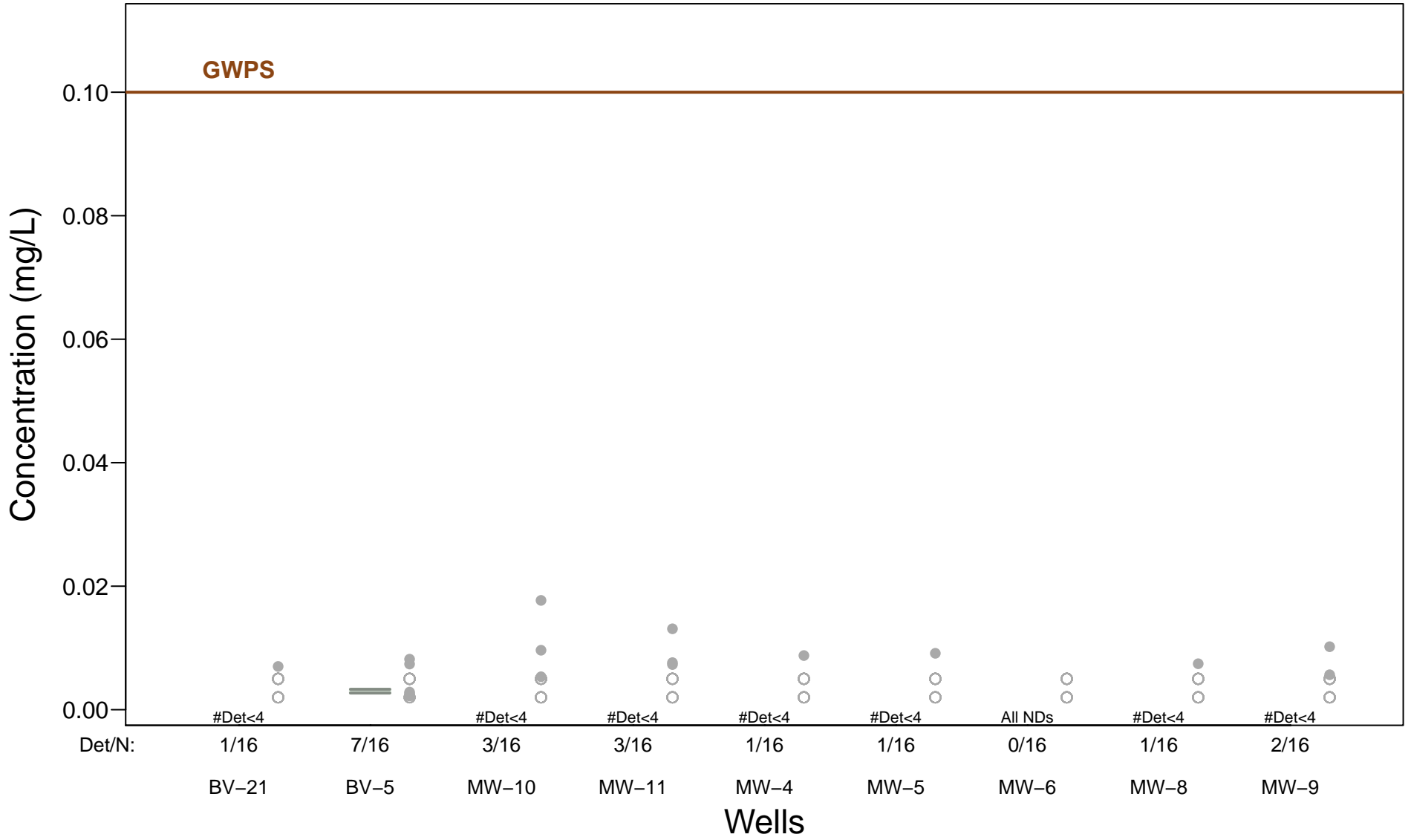
Beryllium – 95% Confidence Intervals



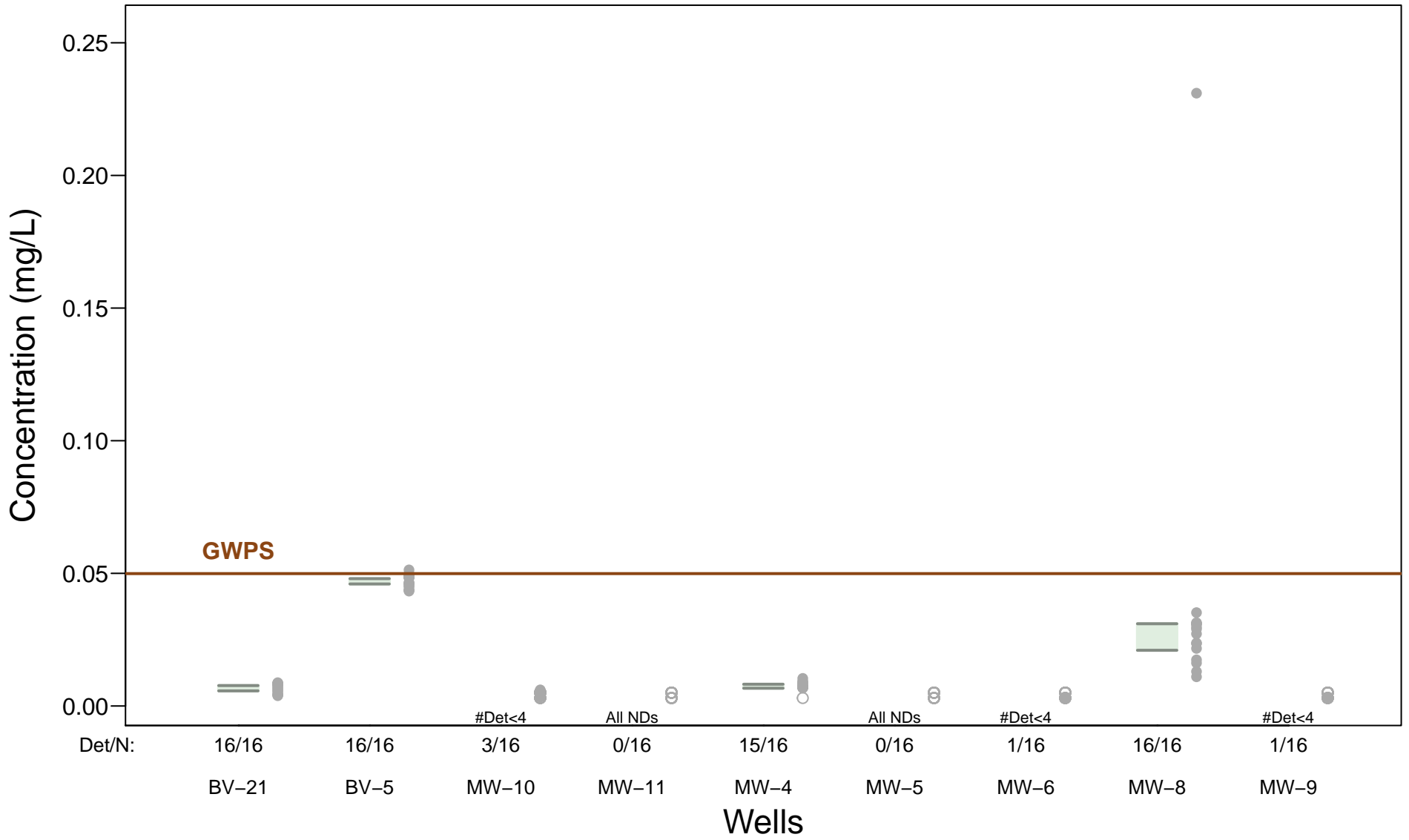
Cadmium – 95% Confidence Intervals



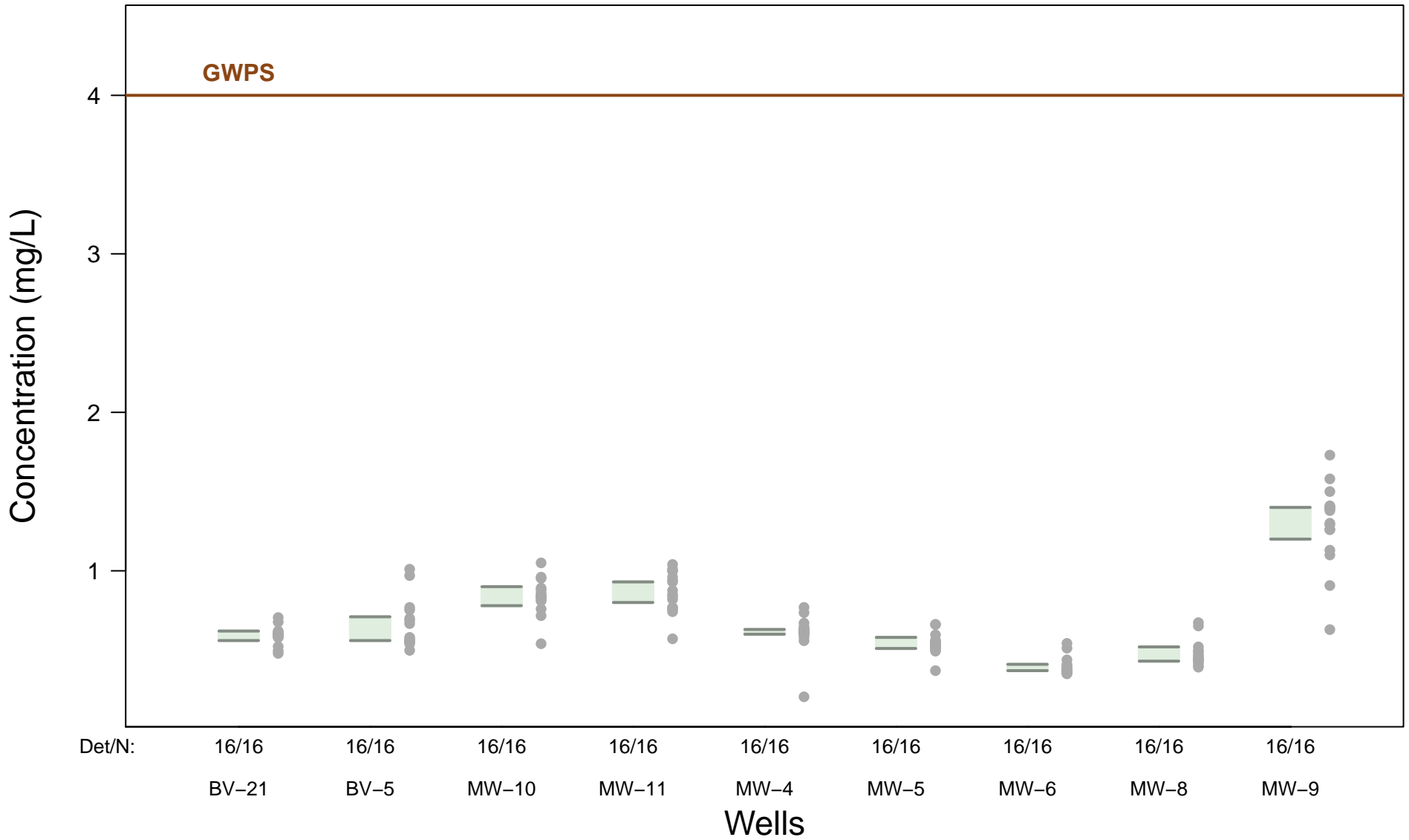
Chromium – 95% Confidence Intervals



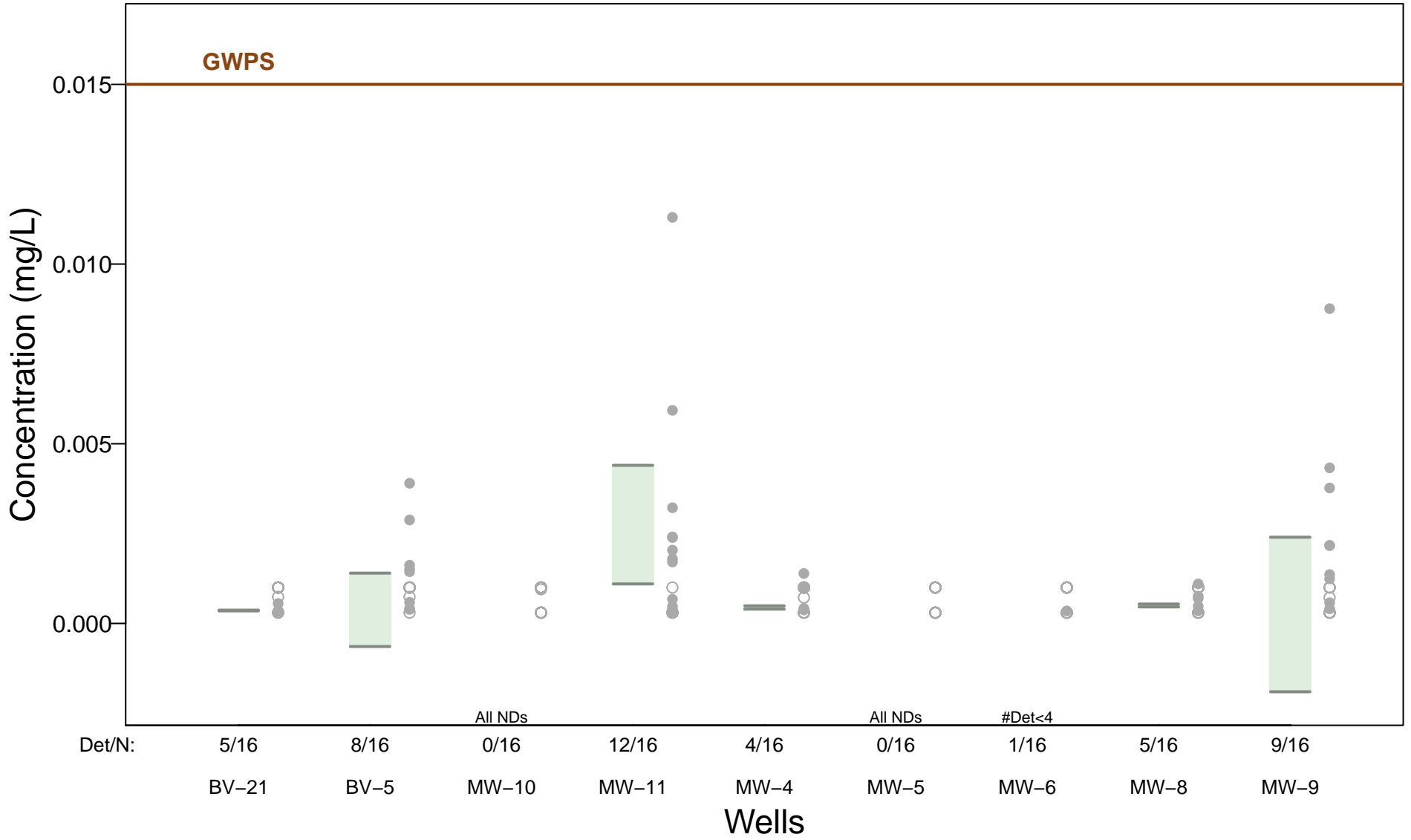
Cobalt – 95% Confidence Intervals



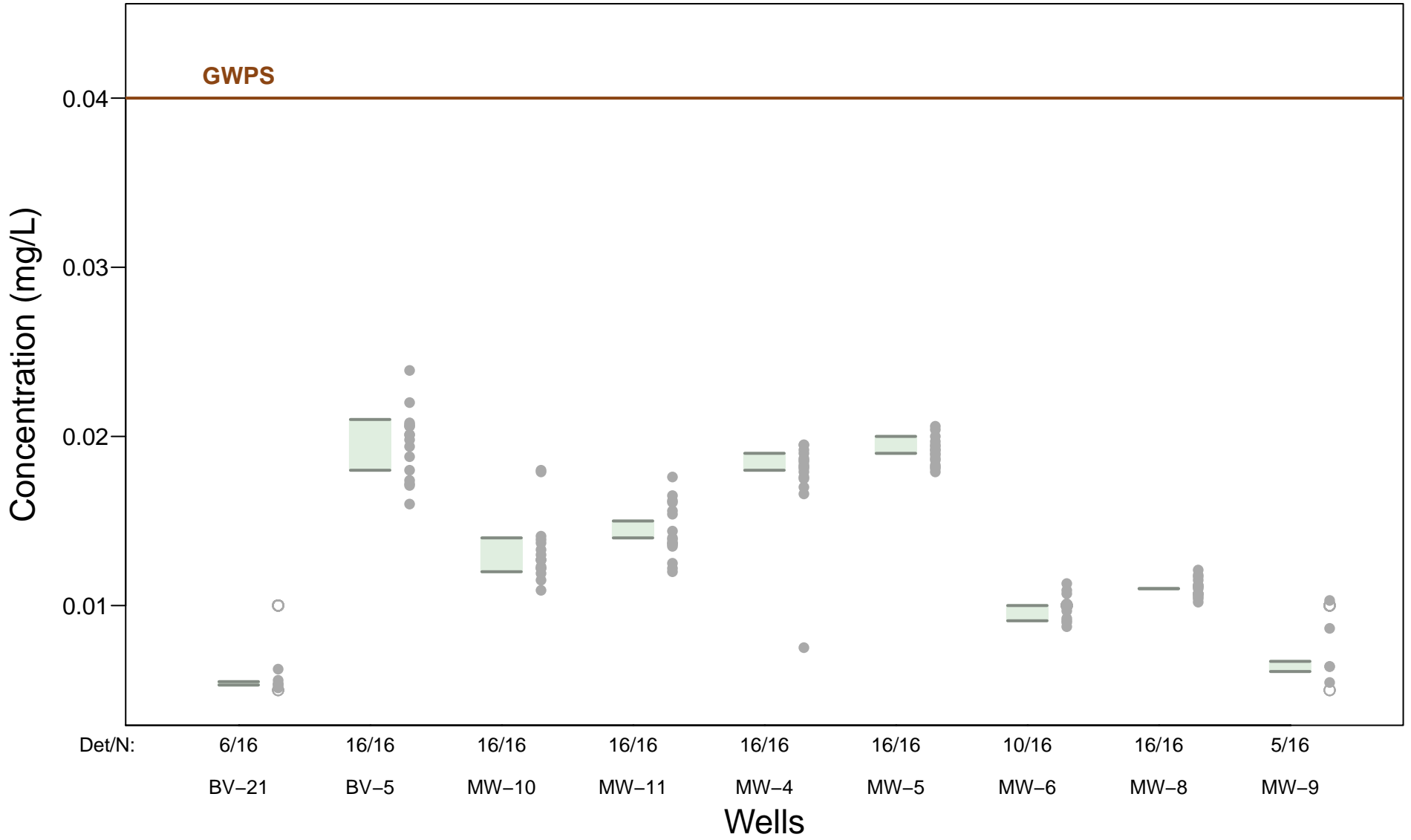
Fluoride (Appendix IV) – 95% Confidence Intervals



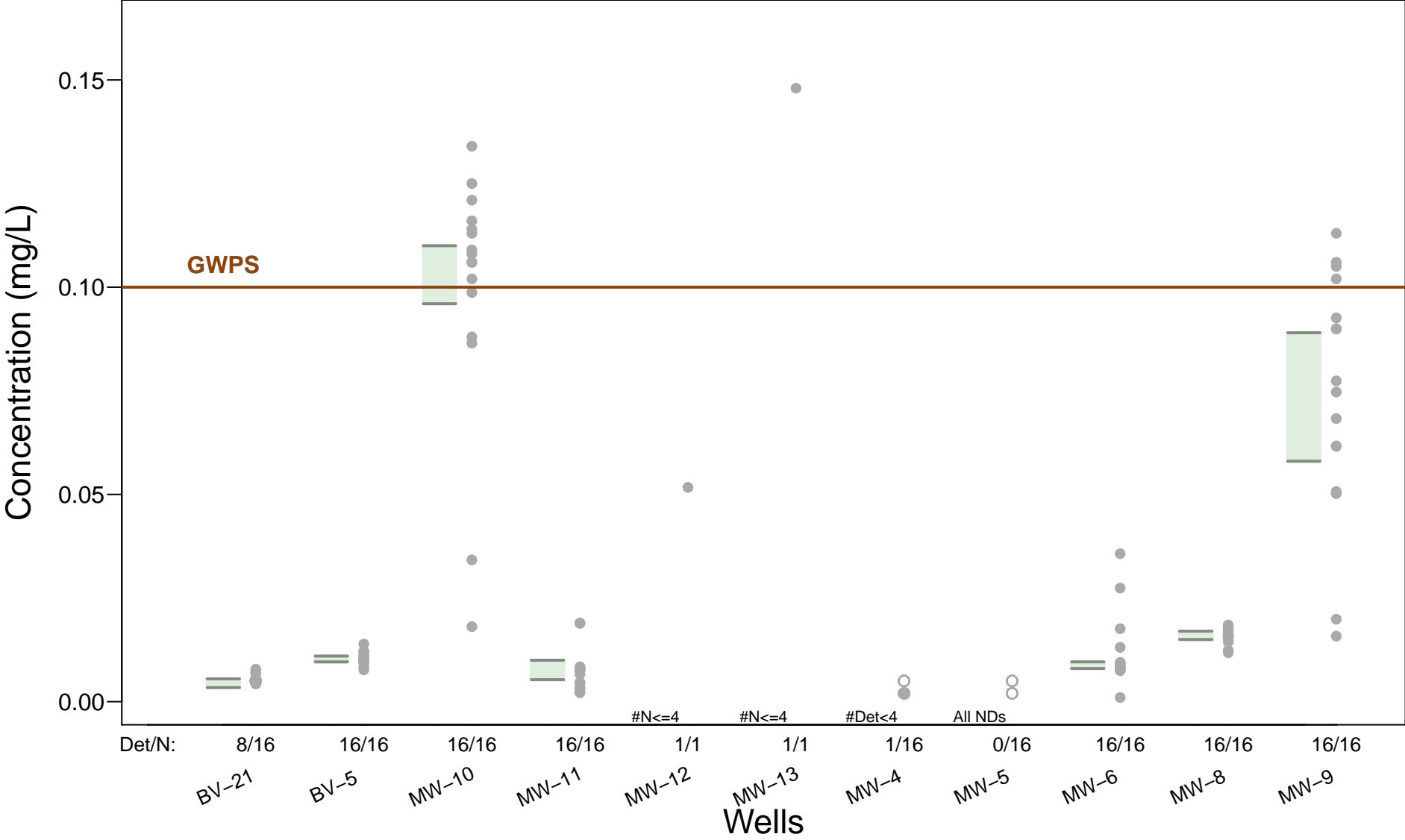
Lead – 95% Confidence Intervals



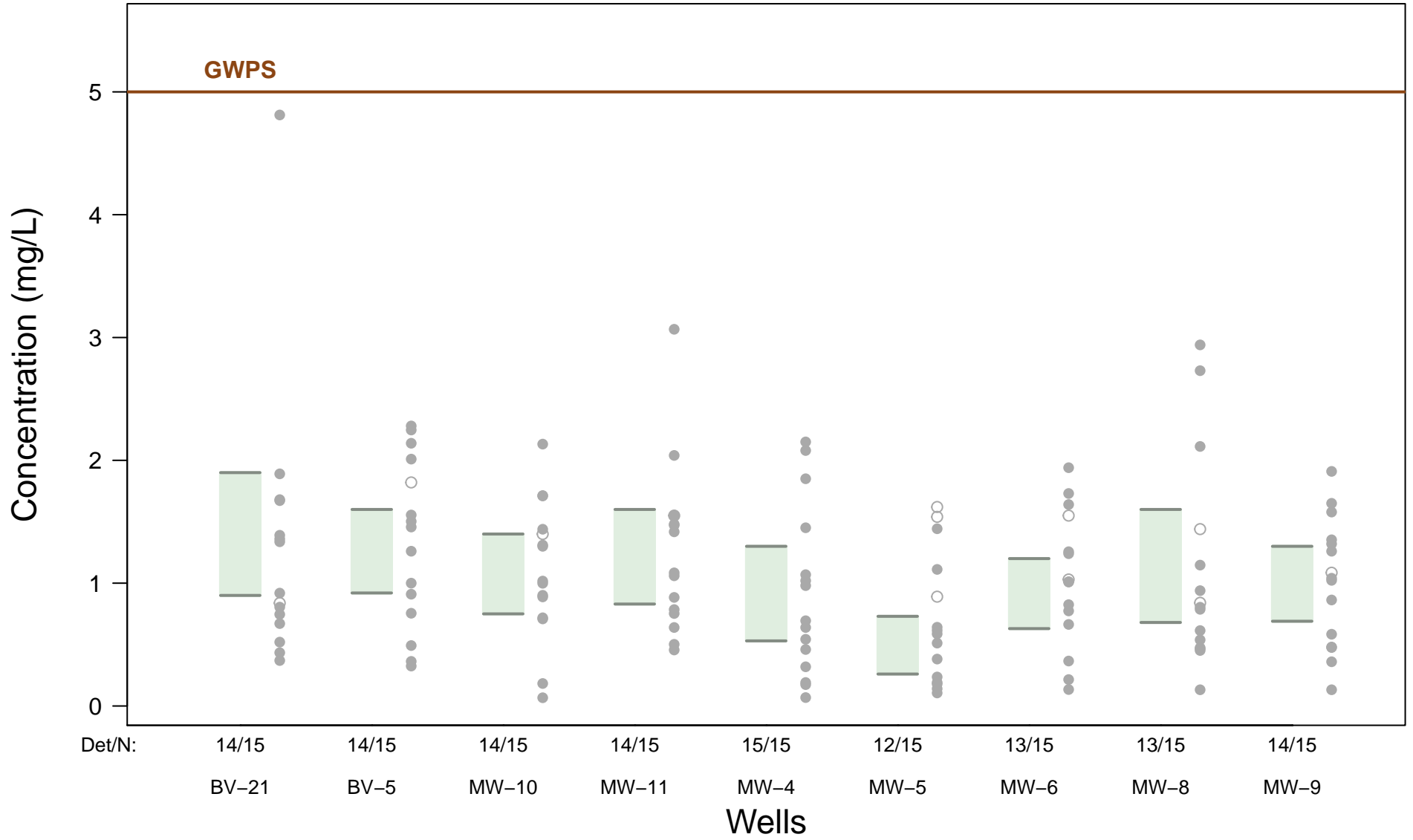
Lithium – 95% Confidence Intervals



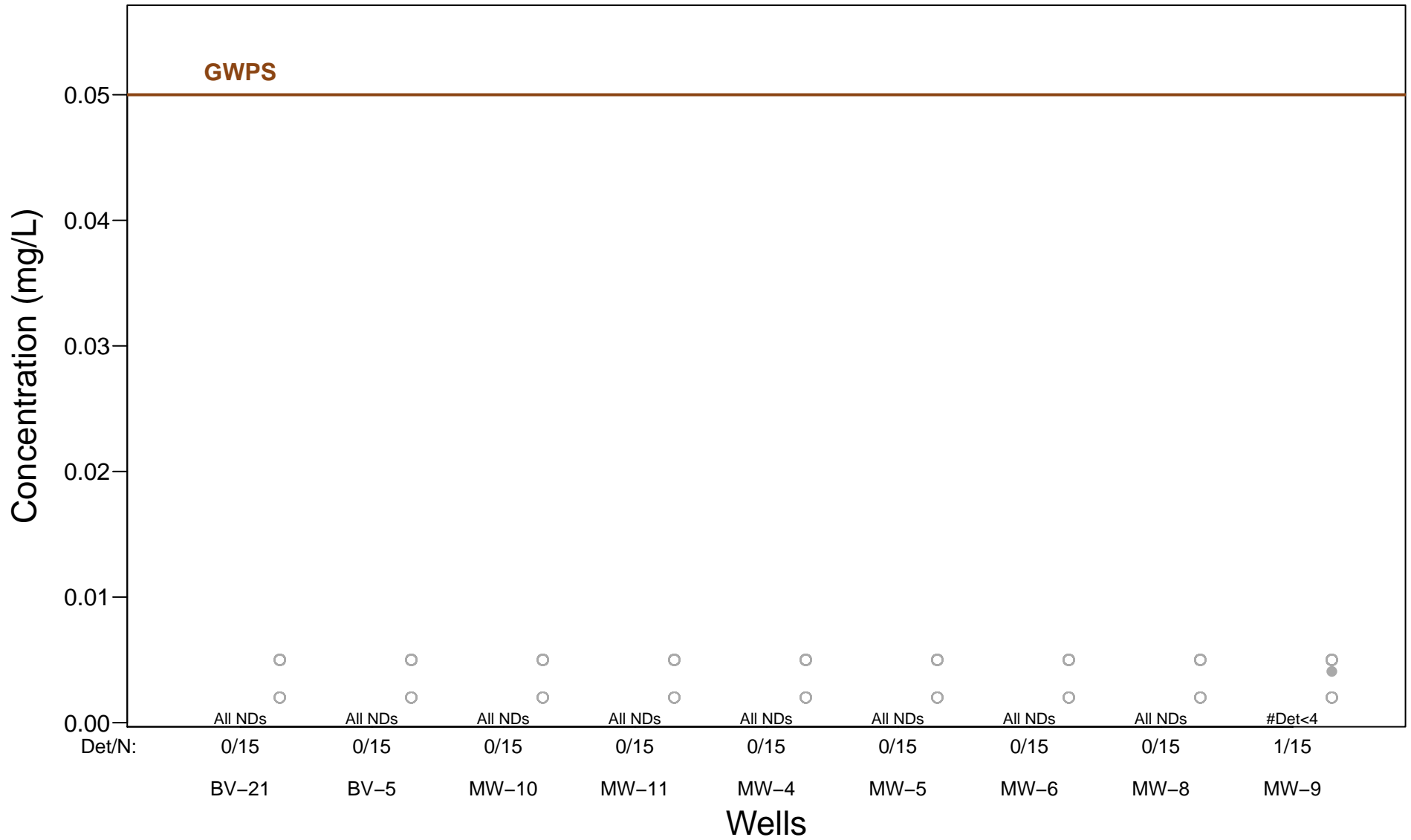
Molybdenum – 95% Confidence Intervals



Radium-226/228 combined – 95% Confidence Intervals

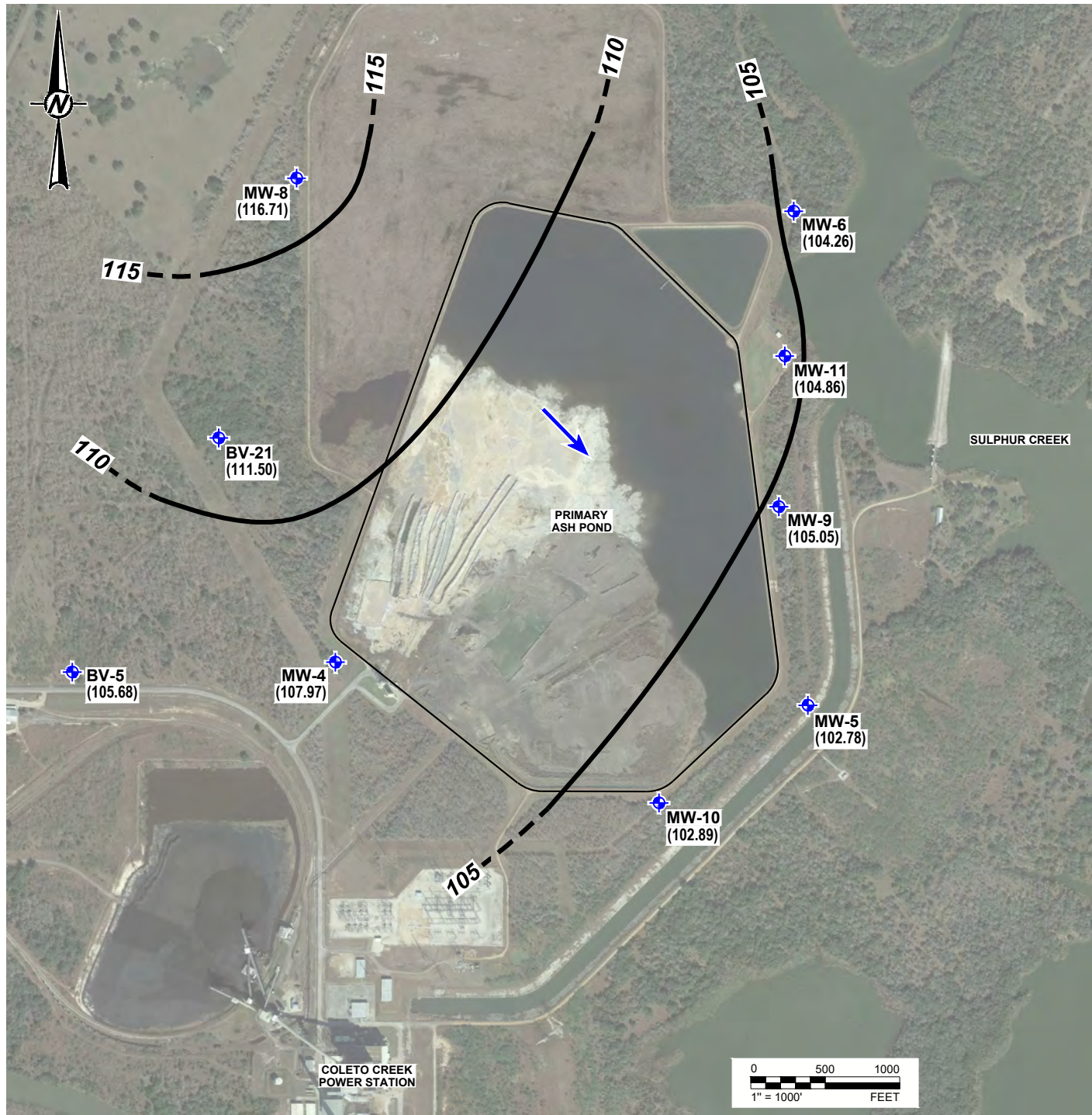


Selenium – 95% Confidence Intervals






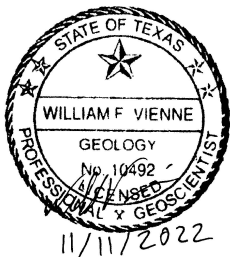
ATTACHMENT 3
2021 GROUNDWATER POTENTIOMETRIC SURFACE MAPS

Last Edited By: adiamond Date: 2022-01-18 Time: 2:30:03 PM | Printed By: adiamond Date: 2022-01-18 Time: 2:31:52 PM
 Path: \\golder-gdfs-complex\adiala\offices\Toskan\mat\Projects - Round Rock - Luminant\19122262 - Coleto Creek\2021 CCR GWMR | File Name: FIG 1 - Pot Surface Map-Primary Ash Pond (June 2021).dwg



LEGEND

-  CCR MONITORING WELL
- (113.02)** GROUNDWATER POTENTIOMETRIC SURFACE (FT MSL)
-  GROUNDWATER POTENTIOMETRIC SURFACE CONTOUR (C.I. = 5 FT)
-  INFERRED DIRECTION OF GROUNDWATER FLOW




REFERENCE(S)
 APPENDIX E, Revision 2, October 10, 2023
 BASE MAP TAKEN FROM GOOGLE EARTH, MAP DATE 2016.

CLIENT
LUMINANT

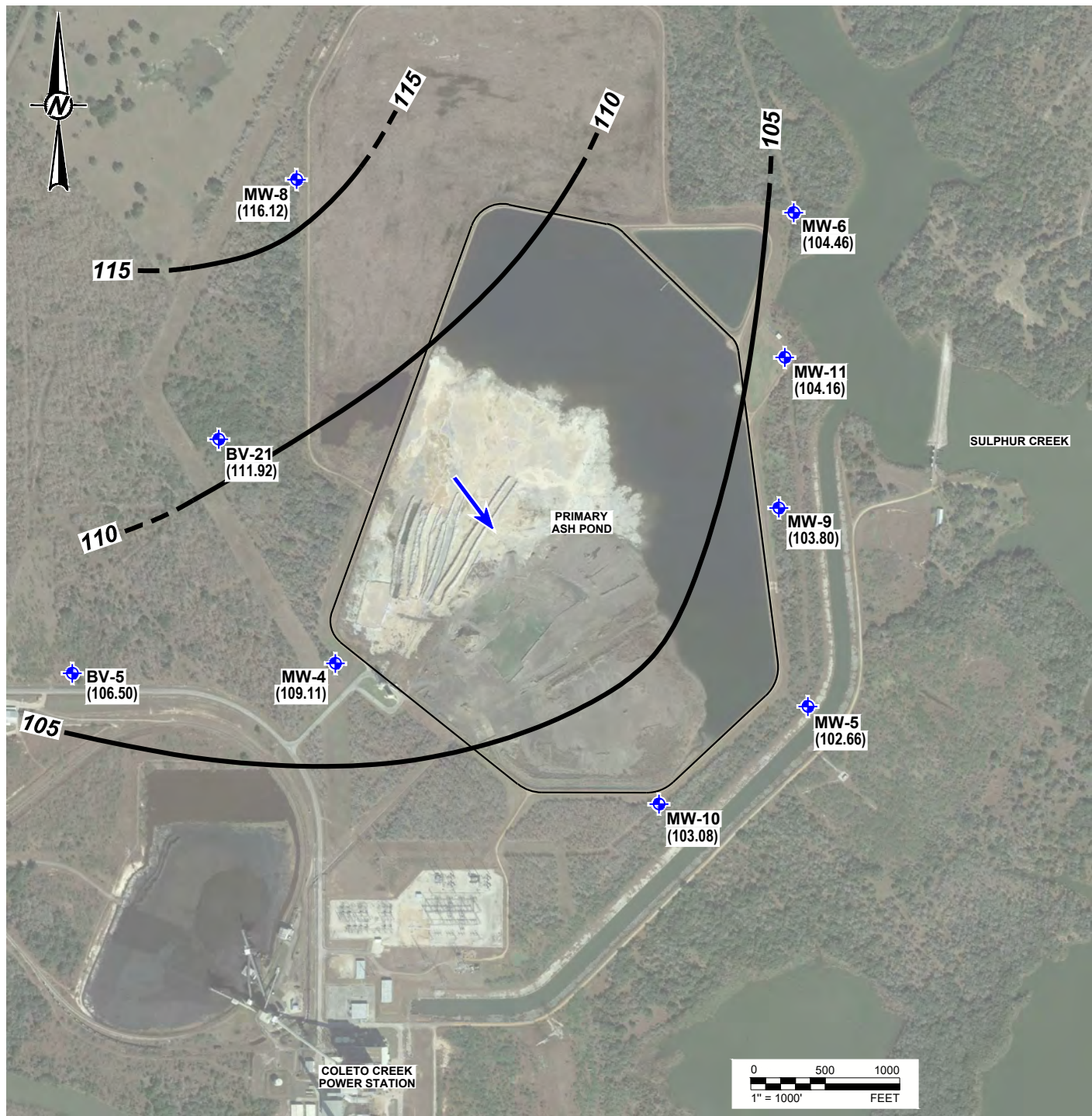
PROJECT
**COLETO CREEK POWER STATION
 FANNIN, TEXAS**

TITLE
**PRIMARY ASH POND
 POTENTIOMETRIC SURFACE MAP
 JUNE 2, 2021**




| | | |
|--|------------|------------|
| CONSULTANT | YYYY-MM-DD | 2021-01-18 |
|  | DESIGNED | AJD |
| | PREPARED | AJD |
| | REVIEWED | HD |
| | APPROVED | WV |

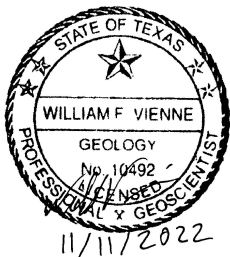
| | | | |
|-------------|---------|------|--------|
| PROJECT NO. | CONTROL | REV. | FIGURE |
| 1912262 | | 0 | 1 |

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI A
 1 in



LEGEND

-  CCR MONITORING WELL
- (113.02)** GROUNDWATER POTENTIOMETRIC SURFACE (FT MSL)
-  GROUNDWATER POTENTIOMETRIC SURFACE CONTOUR (C.I. = 5 FT)
-  INFERRED DIRECTION OF GROUNDWATER FLOW




REFERENCE(S)

BASE MAP TAKEN FROM GOOGLE EARTH, MAP DATE 2016.

CLIENT
LUMINANT

PROJECT
**COLETO CREEK POWER STATION
FANNIN, TEXAS**

TITLE
**PRIMARY ASH POND
POTENTIOMETRIC SURFACE MAP
SEPTEMBER 28, 2021**

| | | |
|--|------------|------------|
| CONSULTANT | YYYY-MM-DD | 2022-01-18 |
|  | DESIGNED | AJD |
| | PREPARED | AJD |
| | REVIEWED | HD |
| | APPROVED | WV |

| | | | |
|-------------|---------|------|--------|
| PROJECT NO. | CONTROL | REV. | FIGURE |
| 1912262 | | 0 | 2 |

Last Edited By: adiamond Date: 2022-01-18 Time: 2:34:04 PM | Printed By: adiamond Date: 2022-01-18 Time: 2:48:00 PM
Path: \\golder-gis\complex\adiala\offices\luminant\Projects - Round Rock - Luminant\1912262 - Coleto Creek\2021 CCR GWMR | File Name: FIG 2 - Pot Surface Map-Primary Ash Pond (September 2021).dwg

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI A
1 in