

**INITIAL SAFETY FACTOR ASSESSMENT**  
**40 C.F.R § 257.100(f)(2)(iv) and 40 C.F.R. § 257.73(e)**  
**PLANT MITCHELL ASH POND 1 (AP-1)**  
**GEORGIA POWER COMPANY**

A rule amendment to the Federal Coal Combustion Residuals (CCR) Rule (40 C.F.R. Part 257) became effective on November 8, 2024. See Hazardous and Solid Waste Management System: Disposal of Coal Combustion Residuals from Electric Utilities; Legacy CCR Surface Impoundments, 89 Fed. Reg. 38950 (“Legacy Rule”). The Legacy Rule defines the term “legacy CCR surface impoundment” and establishes regulatory requirements for units that meet the definition of a legacy CCR surface impoundment. The Legacy Rule requires the owner or operator of a legacy CCR impoundment to conduct initial and periodic safety factor assessments for each CCR unit and document whether the calculated factors of safety for each unit achieve the minimum safety factors specified in 40 C.F.R. § 257.73(e)(1)(i) through (iv) for the critical section of the dam. In addition, the Rules require a subsequent assessment to be performed within 5 years of the previous assessment [See 40 C.F.R. § 257.73(f)(3)].

The legacy CCR surface impoundment known as Plant Mitchell Ash Pond 1 (AP-1) is located approximately 8 miles south of Albany, Georgia on Georgia Power’s Plant Mitchell property. AP-1 is approximately 53 acres and was formed by constructing an engineered perimeter dam around the impoundment. The Notification of Intent to Initiate Closure of AP-1 was placed in the Operating Record in October 2019. AP-1 no longer receives CCR and is currently undergoing closure by removal wherein CCR material is removed and transported by rail and truck for beneficial use or disposal at an approved landfill.

Slope stability analyses were performed for four critical sections through the perimeter dike slope of AP-1 as included in the attached calculation package. The analyses of the four critical sections (A-A’, B-B’, C-C’ and D-D’) resulted in the following minimum safety factors:

| Loading Condition              | Long-term Maximum Storage Pool (Static) | Maximum Surcharge Pool (Static) | Seismic            |
|--------------------------------|-----------------------------------------|---------------------------------|--------------------|
| Rule Section                   | § 257.73(e)(1)(i)                       | § 257.73(e)(1)(ii)              | §257.73(e)(1)(iii) |
| Minimum Required Safety Factor | 1.5                                     | 1.4                             | 1.0                |
| <b>Cross Sections</b>          | <b>Minimum Calculated Safety Factor</b> |                                 |                    |
| A-A'                           | 2.7                                     | 2.7                             | 2.1                |
| B-B'                           | 1.6                                     | 1.6                             | 1.2                |
| C-C'                           | 1.6                                     | 1.6                             | 1.1                |
| D-D'                           | 1.6                                     | 1.5                             | 1.1                |

The soils used to construct the AP-1 perimeter dike are not susceptible to liquefaction, primarily due to the low magnitude of seismic shaking anticipated at the site and due to the predominantly clayey soils with significant fines fraction used to construct the embankment. After review of the limited available data, simplified screening for cyclic mobility indicates that the dike is not susceptible to cyclic mobility during seismic events. Therefore, evaluation of minimum liquefaction factor of safety per §257.73(e)(1)(iv) is not required.

This assessment is supported by appropriate engineering calculation package which is attached.

I hereby certify that the safety factor assessment was conducted in accordance with 40 C.F.R. § 257.100(f)(2)(iv) and 40 C.F.R. § 257.73.



Ramil Garcia Mijares, Ph.D., P.E.  
Licensed State of GA, PE No. PE042944

Attachment: Calculation Package



# PLANT MITCHELL ASH POND 1 (AP-1) CALCULATION PACKAGE

PREPARED BY: PG  
REVIEWED BY: AF  
APPROVED BY: RM

## 1 INTRODUCTION

This calculation package presents the results of the slope stability analysis performed to evaluate the initial factor of safety for Plant Mitchell Ash Pond 1 (AP-1) dikes in accordance with of the Federal CCR Rule (40 C.F.R. § 257) which requires the owner or operator of a legacy CCR surface impoundment to conduct initial and periodic safety factor assessments.

Several subsurface investigations have been conducted at AP-1 and Plant Mitchell Ash Pond 2 (AP-2) at various times in the past. The investigations consisted of auger borings with standard penetration tests (SPT), cone penetration tests (CPT) borings, and test pits. Laboratory tests were conducted on select samples which informed geotechnical material properties for different materials at the site. This calculation package also aims to refine these properties for use in the stability analysis based on available SPT data.

## 2 METHODOLOGY

WSP analyzed four critical cross-sections (A-A' through D-D') in AP-1 as shown in Appendix A. These locations were selected based on the steepness and height of the dike, presence of any known historical instabilities, and proximity to water storage structures like storage lagoon. Subsurface stratigraphy for each cross-section was developed based on the historical subsurface data and the aerial survey conducted by WSP in January 2025 (See Appendix B). Material properties were developed for the dike, residual/existing, and CCR materials based on these data.

WSP used a two-dimensional general limit equilibrium approach for the analysis. The Morgenstern-Price method was used which satisfies both force and moment equilibrium and which considers both shear and normal interslice forces. Analysis was performed using Rocscience's SLIDE2 (2023) computer program. Non-circular failure surfaces with a minimum depth of 5 ft deep were modeled for each cross-section, and critical failure surfaces corresponding to the lowest factor of safety are presented in this calculation package. AP-1 was analyzed using topographic conditions based on January 2025 survey data and factors of safety were evaluated under three loading conditions: (i) long-term maximum storage pool (static); (ii) maximum surcharge pool (static); and (iii) seismic.

The long-term maximum storage pool was established using the maximum historical groundwater elevation recorded between 2016 and 2025. Refer to Section 4 for details on the groundwater elevations for the selected critical cross-sections. Only cross-section A-A' contains free surface water (Refer to Appendix D) to an elevation of 187 ft corresponding to the design water level of the lined Contact Water Lagoon. Currently, with ongoing closure activities at AP-1, WSP anticipates that the groundwater levels presented in Section 4 represent maximum storage pool conditions.

AP-1 is designed to store runoff from a 1,000-year, 24-hour storm event with a storm depth of 12 inches, therefore, a maximum surcharge pool of 12 inch was considered in the analysis. For seismic evaluation, the Hynes-Griffin & Franklin (1984) pseudo-static screening method was used with a pseudo-static coefficient equal to one half of the Peak Ground Acceleration (PGA) at the site. A PGA value of 0.065g was adopted based on the

earthquake hazard corresponding to 2% in 50 years (2,475-year return period) probability of exceedance using United States Geological Society Hazard Tool<sup>1</sup>. The shear strength parameters of the soil were reduced by 20% to account for dynamic excess pore pressures during seismic loading. The materials below groundwater table were modeled as undrained, while those above water were modeled as drained under seismic loading, with strength reductions applied per Haynes-Griffin & Franklin (1984). Furthermore, liquefaction susceptibility was assessed using Bray and Sancio (2006) method based on available Atterberg Limits data.

The following geotechnical investigation data, reports, design calculations, and records were reviewed for this analysis. Relevant excerpts were included in Appendix B.

- Southern Company Services Inc., Earth Science and Environmental Engineering, Log of Test Boring, March 2010, (SCS, 2010).
- Wood Environment & Infrastructure Solutions, Inc., Hydrogeologic Assessment Report and Conceptual Site Model, Plant Mitchell – Ash Ponds, A, 1 & 2, Dougherty and Mitchell Counties, November 2018, (Wood, 2018).
- Wood Environment & Infrastructure Solutions, Inc., Geotechnical Site Characterization Report, February 8, 2019, (Wood, 2019a).
- Wood Environment & Infrastructure Solutions, Inc., Calculations – Slope Stability, Beneficial Use Collection – Truck on Dike, March 13, 2019, (Wood, 2019b).
- Wood Environment & Infrastructure Solutions, Inc., Calculations – Slope Stability, Beneficial Use Collection – Truck on Haul Road on Ash, March 15, 2019, (Wood, 2019c).
- Wood Environment & Infrastructure Solutions, Inc., Annual and Semi-Annual Groundwater Monitoring and Corrective Action Report, Plant Mitchell – Ash Ponds, A, 1 & 2, 2019-2022, (Wood, 2019-2022).
- WSP USA Environment & Infrastructure, Inc., (2016–2025). GW elevations Aug 2016 to Sept 2025 [Microsoft Excel spreadsheet], Unpublished internal document. (WSP, 2016-2025).
- WSP USA Environment & Infrastructure, Inc., Annual and Semi-Annual Groundwater Monitoring and Corrective Action Report, Plant Mitchell – Ash Ponds, A, 1 & 2, 2023-2025, (WSP, 2023-2025).
- Charah Solutions/Geocomp, Monthly Instrumentation Report, Georgia Power- Plant Mitchell, Ash Pond Closure Project, July, August, September 2024 and April, June, July 2025, (Charah/Geocomp, 2024-2025).

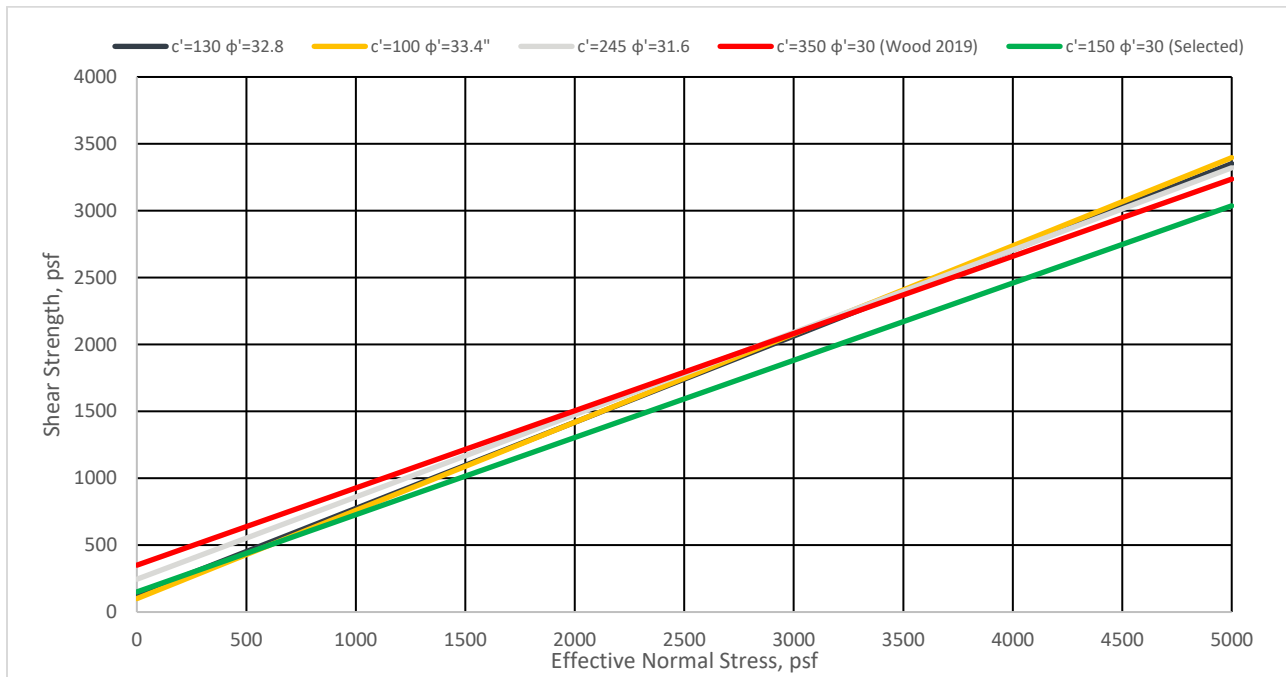
### 3 MATERIAL PROPERTIES

The SPT blow counts and material classification for AP-1 and AP-2 dike materials from SCS (2010) are summarized in Appendix C. Both dikes consist of similar soil types, ranging from sandy fat clays and lean clays to clayey sands and silty sands. However, AP-1 dike materials generally have lower SPT blow counts compared to AP-2 dike materials, indicating comparatively weaker strength properties. Triaxial tests results are available only for AP-2 dike and residual materials from SCS (2010). Hence, it was necessary to evaluate and adopt appropriate shear strength parameters for AP-1 dike stability analyses. Figure 3-1 below shows a comparison between different shear strength envelopes – SCS (2010) triaxial tests results and Wood (2019a) recommended shear strength parameters – available to use for AP-1 stability analyses.

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<sup>1</sup> <https://earthquake.usgs.gov/nshmp/>

CALCULATION PACKAGE



**Figure 3-1: Comparison between different shear strength envelopes**

A lower conservative Mohr-Coulomb shear strength envelope, shown as green line in Figure 3-1, was selected for the AP-1 dike materials. For the CCR material, despite being suggested in Wood (2019a) no distinction in unit weights was made between drained and undrained loading conditions. The underlying bedrock consists of Ocala Limestone which was assigned infinite strength for modeling purposes due to its higher strength relative to overlying soils. Similarly, a lower conservative Mohr-Coulomb shear strength envelope was adopted for residual soils based on triaxial test results from SCS (2010). The material properties used in the stability analyses are summarized below.

**Table 3-1: Material Properties**

| Material Type                       | Unit Weight (pcf) | Static            |         |                    | Pseudo-Static <sup>6</sup> |         |             |
|-------------------------------------|-------------------|-------------------|---------|--------------------|----------------------------|---------|-------------|
|                                     |                   | $\phi'$ (degrees) | c (psf) | $s_u$ (psf)        | $\phi'$ (degrees)          | c (psf) | $s_u$ (psf) |
| Dike Material <sup>1</sup>          | 125               | 30                | 150     | 1,200              | 24.8                       | 120     | 960         |
| CCR Material                        | 70 <sup>2</sup>   | 24                | 0       | 200                | 19.6                       | 0       | 160         |
| Residual/Existing Soil <sup>3</sup> | 120               | 18                | 250     | 1,000 <sup>4</sup> | 14.6                       | 200     | 800         |
| Bedrock <sup>5</sup>                | 125               | -                 |         |                    |                            |         |             |

- 1- Lower conservative shear strength envelope as shown in Figure 3-1.
- 2- Unit weights during drained and seismic loading considered same.
- 3- Minimum shear strength envelope selected from SCS (2010) investigation.
- 4- Minimum value adopted from the CPT data analysis from Wood (2019a).
- 5- Infinite strength is assigned only for purpose of analysis.
- 6- Per Hynes-Griffin & Franklin (1984) method with 20% reduction in peak strength.

## 4 WATER LEVEL ELEVATIONS

Groundwater elevations were generally selected from piezometers located in or near the vicinity of each analysis section. For each section, groundwater elevations were selected at three locations: upstream, near the toe, and downstream of the dike. Maximum groundwater levels were obtained from one of the following reports or monitoring data: Wood (2019-2020), WSP (2016-2025), WSP (2023-2025), and Charah/Geocomp (2024-2025). Where piezometer data were unavailable, groundwater elevations were estimated based on the general trend of groundwater level, or maximum potentiometric surface elevation, or the elevation at the closest analysis section.

WSP assumed that groundwater levels would be maintained at or below these selected elevations at the AP-1 dikes; however, if groundwater levels rise above these elevations, re-evaluation of the stability analyses is recommended. The groundwater elevations used in the analysis are presented in Table 4-1.

**Table 4-1: Ground Water Elevations Selected for Analysis**

| Stability Analysis Section | Upstream of the Dike (ft) | Near Toe of the Dike (ft) | Downstream of the Dike (ft) | Nearby Piezometer                                                      |
|----------------------------|---------------------------|---------------------------|-----------------------------|------------------------------------------------------------------------|
| A-A'                       | 183.0                     | 176.0 <sup>1</sup>        | 167.8                       | Upstream: MIT_CH_AP1_PZ-04<br>Downstream: PZ-4S                        |
| B-B'                       | 185.0                     | 148.0 <sup>2</sup>        | 145.7                       | Upstream: MIT_CH_AP1_PZ-15<br>Downstream: PZ-02R                       |
| C-C'                       | 179.0                     | 147.4                     | 146.4                       | Upstream: MIT_CH_AP1-0-DPZ-12<br>Near Toe: PZ-18<br>Downstream: PZ-10S |
| D-D'                       | 179.0 <sup>3</sup>        | 147.5 <sup>1</sup>        | 147.5                       | Downstream: MW-116                                                     |

- 1- Based on the general trend of groundwater level.
- 2- Based on the maximum potentiometric surface elevation.
- 3- Based on groundwater level in nearby section C-C'.

## 5 RESULTS

The SLIDE outputs showing the failure surface with lowest factor of safety for each loading condition and section are provided in Appendix D. A summary of the minimum factor of safety from the stability analyses is shown in table below:

**Table 5-1: Calculated Slope Stability Factor of Safety**

| <b>Loading Condition</b>              | <b>Long-term Maximum Storage Pool (Static)</b> | <b>Maximum Surcharge Pool (Static)</b> | <b>Seismic</b>     |
|---------------------------------------|------------------------------------------------|----------------------------------------|--------------------|
| <b>Rule Section</b>                   | § 257.73(e)(1)(i)                              | § 257.73(e)(1)(ii)                     | §257.73(e)(1)(iii) |
| <b>Minimum Required Safety Factor</b> | 1.5                                            | 1.4                                    | 1.0                |
| <b>Cross Sections</b>                 | <b>Minimum Calculated Safety Factor</b>        |                                        |                    |
| A-A'                                  | 2.7                                            | 2.7                                    | 2.1                |
| B-B'                                  | 1.6                                            | 1.6                                    | 1.2                |
| C-C'                                  | 1.6                                            | 1.6                                    | 1.1                |
| D-D'                                  | 1.6                                            | 1.5                                    | 1.1                |

The AP-1 dike is not susceptible to flow liquefaction primarily due to the low magnitude of seismic shaking anticipated (PGA=0.065g). In addition, the dike materials – ranging from sandy fat clays and lean clays to clayey sands and silty sands – contain a significant fines fraction (approximately 46%) which reduces susceptibility to flow liquefaction. Furthermore, a simplified screening for susceptibility to cyclic mobility, based on Bray and Sancio (2006), was conducted. Available data were limited; only one data point for sandy lean clay (water content= 16.7%, liquid limit=43, and plasticity index=24) from SCS (2010) was plotted. This plots within the “Not Susceptible” zone (See Appendix E), indicating non-susceptibility to cyclic mobility during seismic shaking. Therefore, evaluation of factor of safety for liquefaction per §257.73(e)(1)(iv) is not required.

## 6 CONCLUSION

The stability analyses show that the analyzed cross-sections exceed the minimum target factor of safety required per § 257.73(e)(1). Furthermore, AP-1 dike materials are also not susceptible to liquefaction.

## 7 REFERENCES

- Bray, J. D., & Sancio, R. B. (2006). Assessment of the liquefaction susceptibility of fine-grained soils. *Journal of Geotechnical and Geoenvironmental Engineering*, 132(9), 1165–1177.
- Charah Solutions/Geocomp. (2024–2025). Monthly instrumentation report, Georgia Power – Plant Mitchell, Ash Pond Closure Project (July, August, September 2024 and April, June, July 2025).
- Hynes-Griffin, M. E., & Franklin, A. G. (1984). Rationalizing the seismic coefficient method (Misc. Paper GL-84-13). U.S. Army Engineer Waterways Experiment Station.
- Southern Company Services Inc., Earth Science and Environmental Engineering. (2010). Log of Test Boring.

**CALCULATION PACKAGE**

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Wood Environment & Infrastructure Solutions, Inc. (2018). Hydrogeologic assessment report and conceptual site model, Plant Mitchell – Ash Ponds A, 1 & 2, Dougherty and Mitchell Counties.

Wood Environment & Infrastructure Solutions, Inc. (2019a). Geotechnical site characterization report.

Wood Environment & Infrastructure Solutions, Inc. (2019b). Calculations – Slope stability, beneficial use collection – Truck on dike.

Wood Environment & Infrastructure Solutions, Inc. (2019c). Calculations – Slope stability, beneficial use collection – Truck on haul road on ash.

Wood Environment & Infrastructure Solutions, Inc. (2019–2022). Annual and semi-annual groundwater monitoring and corrective action report, Plant Mitchell – Ash Ponds A, 1 & 2.

WSP USA Environment & Infrastructure, Inc. (2016–2025). GW elevations Aug 2016 to Sept 2025 [Microsoft Excel spreadsheet]. Unpublished internal document.

WSP USA Environment & Infrastructure, Inc. (2023–2025). Annual and semi-annual groundwater monitoring and corrective action report, Plant Mitchell – Ash Ponds A, 1 & 2.

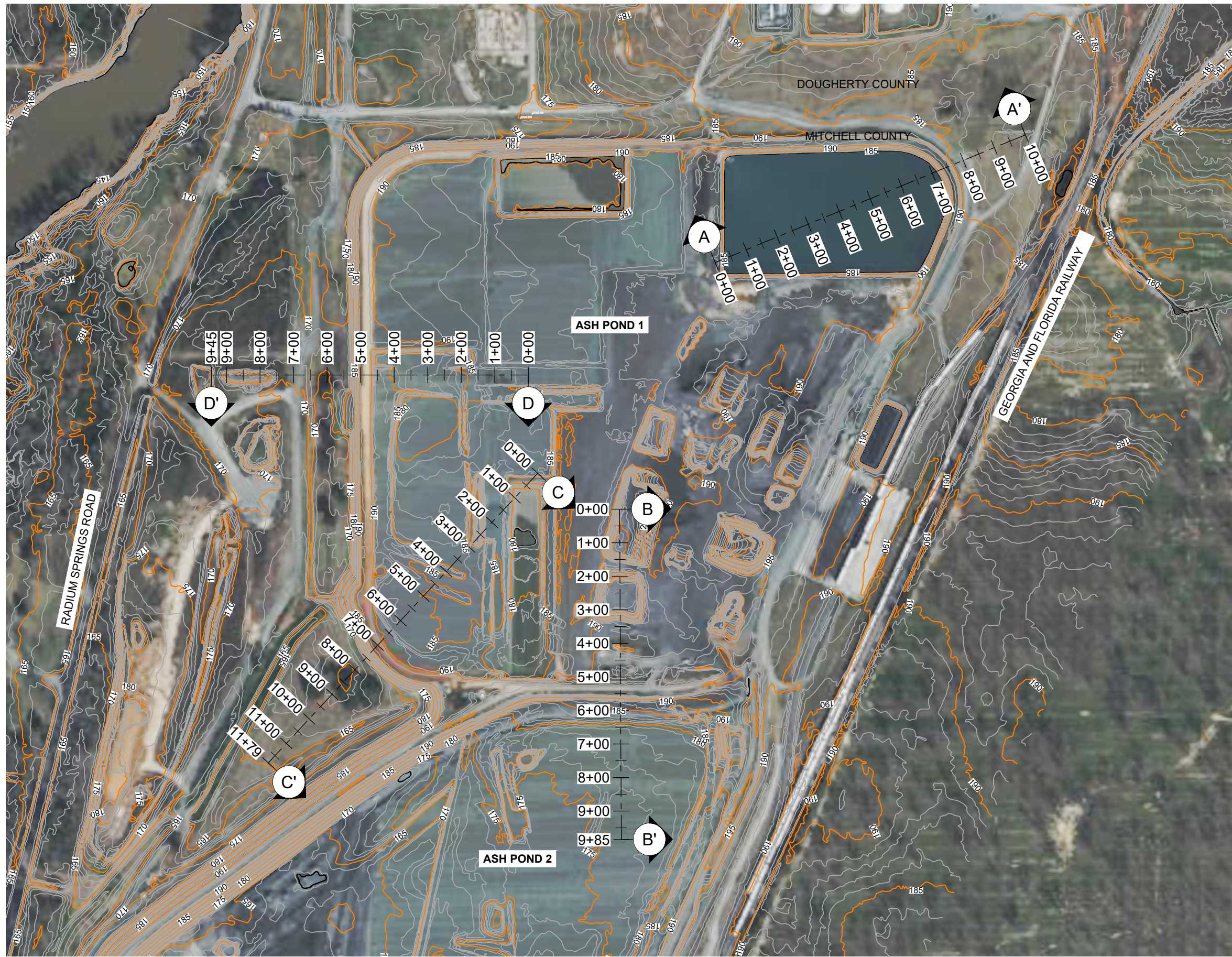
## **8 ATTACHMENTS**

The following are attached to this calculation package:

- Appendix A – Location Plan and Section
- Appendix B – Background Information
- Appendix C – SPT Blow Counts Comparison
- Appendix D – Slope Stability Model Outputs
- Appendix E – Liquefaction Screening

**APPENDIX A**

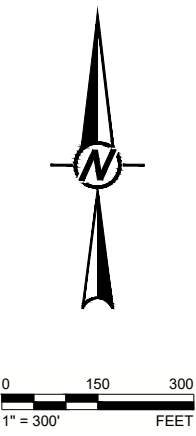
**Location Plan and Section**



KEYMAP

REFERENCE

1. BASE MAP TAKEN FROM ©2025 Microsoft Corp ©2025 Maxar© CNES(2025) Distribution Airbus DS Microsoft Bing, DATED 10/20/2025.
2. Contours from the 2025 January Aerial Survey by WSP.



**PLANT MITCHELL**  
**SITE PLAN WITH SECTION LOCATIONS - AERIAL**  
 Prepared By: CP Date: 10/20/2025  
 Reviewed By: PG WSP Project No: US0037149.0170  
 Approved By: RM

Path: C:\Users\US0037149\Desktop\Plant Mitchell\_Drawings\1 - Files\Name: US0037149.0170 Plant Mitchell.dwg

**APPENDIX B**

# Background Information



# LOG OF TEST BORING

**BORING AP1-1**  
PAGE 1 OF 2

SOUTHERN COMPANY SERVICES, INC.  
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Mitchell Ash Ponds

LOCATION Albany, GA

DATE STARTED 3/24/2010 COMPLETED 3/24/2010 SURF. ELEV. 185.8 COORDINATES: N 524,385.52 E 2,306,317.50

CONTRACTOR SCS Field Services EQUIPMENT CME-550X METHOD Hollow Stem Auger

DRILLED BY S. Denty LOGGED BY G. Wilson CHECKED BY J. Jordan ANGLE \_\_\_\_\_ BEARING \_\_\_\_\_

BORING DEPTH 36.5 ft. GROUND WATER DEPTH: DURING \_\_\_\_\_ COMP. \_\_\_\_\_ DELAYED \_\_\_\_\_

NOTES Ash - North Side

GEOTECH ENGINEERING LOGS - ESEE DATABASE.GDT - 5/7/10 09:19 - T:\ESEE MAJOR PROJECTS\PROJECTS\MITCHELL STEAM PLANT\2010\ASH POND DIKE\LOGS.GPJ

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION               | ELEVATION                         | SAMPLE TYPE NUMBER | SAMPLE DEPTH (ft.) | BLOW COUNTS (N VALUE) | RECOVERY % (RQD) | COMMENTS |  |
|------------|-------------|------------------------------------|-----------------------------------|--------------------|--------------------|-----------------------|------------------|----------|--|
| 5          |             | (Fly ash)                          |                                   | SS -1              | 2.5-4.0            | 1-1-1 (2)             |                  |          |  |
|            |             |                                    |                                   | SS -2              | 4.5-6.0            | 2-2-2 (4)             |                  |          |  |
| 10         |             |                                    |                                   | SS -3              | 7.5-9.0            | 2-1-2 (3)             |                  |          |  |
|            |             |                                    |                                   |                    | UD -4              | 9.5-11.5              |                  |          |  |
| 15         |             |                                    |                                   |                    | SS -5              | 14.5-16.0             | 1-WH-1 (1)       |          |  |
| 20         |             |                                    | MIT-API 037                       |                    | SS -6              | 19.5-21.0             | 1-1-2 (3)        |          |  |
|            |             |                                    | CONFIDENTIAL BUSINESS INFORMATION |                    |                    |                       |                  |          |  |
| 25         |             | Very soft, brown, clayey SAND (SC) | 161.3                             | SS -7              | 24.5-26.0          | WH-WH-2 (2)           |                  |          |  |

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# LOG OF TEST BORING

**BORING AP1-1**  
PAGE 2 OF 2

SOUTHERN COMPANY SERVICES, INC.  
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Mitchell Ash Ponds

LOCATION Albany, GA

GEOTECH ENGINEERING LOGS - ESEE DATABASE.GDT - 5/7/10 09:19 - T:\ESEE MAJOR PROJECTS\PROJECTS\MITCHELL STEAM PLANT\2010\ASH POND DIKE\LOGS.GPJ

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION                                       | ELEVATION | SAMPLE TYPE NUMBER | SAMPLE DEPTH (ft.) | BLOW COUNTS (N VALUE) | RECOVERY % (RQD) | COMMENTS |
|------------|-------------|------------------------------------------------------------|-----------|--------------------|--------------------|-----------------------|------------------|----------|
|            |             | Very soft, brown, clayey SAND (SC) (Cont)                  |           |                    |                    |                       |                  |          |
| 30         |             |                                                            | 156.3     |                    |                    |                       |                  |          |
|            |             | Medium dense, brown/white, clayey SAND/weathered limestone |           | SS-8               | 29.5-31.0          | 3-4-7 (11)            |                  |          |
| 35         |             |                                                            |           |                    |                    |                       |                  |          |
|            |             |                                                            | 149.3     | UD-9               | 34.5-36.5          |                       |                  |          |
|            |             | Bottom of borehole at 36.5 feet.                           |           |                    |                    |                       |                  |          |
| 40         |             |                                                            |           |                    |                    |                       |                  |          |
| 45         |             |                                                            |           |                    |                    |                       |                  |          |
| 50         |             |                                                            |           |                    |                    |                       |                  |          |
| 55         |             |                                                            |           |                    |                    |                       |                  |          |

**CONFIDENTIAL BUSINESS INFORMATION**



# LOG OF TEST BORING

**BORING AP1-2**  
PAGE 1 OF 2

SOUTHERN COMPANY SERVICES, INC.  
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Mitchell Ash Ponds

LOCATION Albany, GA

DATE STARTED 3/30/2010 COMPLETED 3/31/2010 SURF. ELEV. 191.1 COORDINATES: N 524,558.81 E 2,306,368.70

CONTRACTOR SCS Field Services EQUIPMENT CME-550X METHOD Hollow Stem Auger

DRILLED BY S. Denty LOGGED BY J. Jordan CHECKED BY J. Jordan ANGLE \_\_\_\_\_ BEARING \_\_\_\_\_

BORING DEPTH 46 ft. GROUND WATER DEPTH: DURING \_\_\_\_\_ COMP. \_\_\_\_\_ DELAYED \_\_\_\_\_

NOTES Crest - North Side

GEOTECH ENGINEERING LOGS - ESEE DATABASE.GDT - 5/7/10 09:20 - T:\ESEE MAJOR PROJECTS\PROJECTS\MITCHELL STEAM PLANT\2010\ASH POND DIKE\LOGS.GPJ

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION                      | ELEVATION                                             | SAMPLE TYPE NUMBER | SAMPLE DEPTH (ft.) | BLOW COUNTS (N VALUE) | RECOVERY % (RQD) | COMMENTS |
|------------|-------------|-------------------------------------------|-------------------------------------------------------|--------------------|--------------------|-----------------------|------------------|----------|
| 5          |             | Red, medium dense, CLAYEY SAND (SC)       |                                                       |                    |                    |                       |                  |          |
|            |             |                                           | 186.6                                                 | SS -1              | 2.5-4.0            | 5-6-7 (13)            |                  |          |
|            |             | Red to black, stiff, SANDY LEAN CLAY (CL) |                                                       | SS -2              | 4.5-6.0            | 4-5-3 (8)             |                  |          |
|            |             | Firm, reddish orange                      |                                                       | SS -3              | 7.5-9.0            | 4-4-3 (7)             |                  |          |
| 10         |             |                                           |                                                       | UD -4              | 9.5-11.5           |                       |                  |          |
| 15         |             |                                           | Red to dark gray, medium dense, fine CLAYEY SAND (SC) | 176.6              | SS -5              | 14.5-16.0             | 5-6-8 (14)       |          |
| 20         |             |                                           | Loose                                                 |                    | SS -6              | 19.5-21.0             | 5-4-4 (8)        |          |
| 25         |             | With black ash                            |                                                       | SS -7              | 24.5-26.0          | 6-6-5 (11)            |                  |          |

**CONFIDENTIAL BUSINESS INFORMATION**

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# LOG OF TEST BORING

**BORING AP1-2**  
PAGE 2 OF 2

SOUTHERN COMPANY SERVICES, INC.  
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Mitchell Ash Ponds  
LOCATION Albany, GA

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION                                         | ELEVATION      | SAMPLE TYPE NUMBER | SAMPLE DEPTH (ft.) | BLOW COUNTS (N VALUE) | RECOVERY % (RQD) | COMMENTS |
|------------|-------------|--------------------------------------------------------------|----------------|--------------------|--------------------|-----------------------|------------------|----------|
|            |             | Red to dark gray, medium dense, fine CLAYEY SAND (SC) (Cont) |                |                    |                    |                       |                  |          |
| 30         |             | Stiff, light gray, SANDY FAT CLAY (CH)                       | 161.6          | SS-8               | 29.5-31.0          | 3-4-6 (10)            |                  |          |
| 35         |             | Yellowish brown, firm, less sand                             |                | SS-9               | 34.5-36.0          | 2-2-3 (5)             |                  |          |
| 40         |             |                                                              |                | SS-10              | 39.5-41.0          | 3-4-6 (10)            |                  |          |
| 45         |             | White, weathered LIMESTONE                                   | 145.6<br>145.1 | SS-11              | 44.5-46.0          | 3-3-4 (7)             |                  |          |
|            |             | Bottom of borehole at 46.0 feet.                             |                |                    |                    |                       |                  |          |
| 50         |             |                                                              |                |                    |                    |                       |                  |          |
| 55         |             |                                                              |                |                    |                    |                       |                  |          |

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**CONFIDENTIAL BUSINESS INFORMATION**



# LOG OF TEST BORING

**BORING AP1-3**  
PAGE 1 OF 2

SOUTHERN COMPANY SERVICES, INC.  
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Mitchell Ash Ponds  
LOCATION Albany, GA

DATE STARTED 3/30/2010 COMPLETED 3/30/2010 SURF. ELEV. 170.7 COORDINATES: N 524,600.63 E 2,306,365.71

CONTRACTOR SCS Field Services EQUIPMENT CME-550X METHOD Hollow Stem Auger

DRILLED BY S. Denty LOGGED BY J. Jordan CHECKED BY J. Jordan ANGLE \_\_\_\_\_ BEARING \_\_\_\_\_

BORING DEPTH 46 ft. GROUND WATER DEPTH: DURING \_\_\_\_\_ COMP. \_\_\_\_\_ DELAYED \_\_\_\_\_

NOTES Toe - North Side

GEOTECH ENGINEERING LOGS - ESEE DATABASE.GDT - 5/7/10 09:20 - T:\ESEE MAJOR PROJECTS\PROJECTS\MITCHELL STEAM PLANT\2010\ASH POND DIKE\LOGS.GPJ

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION                             | ELEVATION | SAMPLE TYPE NUMBER | SAMPLE DEPTH (ft.) | BLOW COUNTS (N VALUE) | RECOVERY % (RQD) | COMMENTS |
|------------|-------------|--------------------------------------------------|-----------|--------------------|--------------------|-----------------------|------------------|----------|
|            |             | Loose, dark brown to gray, fine CLAYEY SAND (SC) |           |                    |                    |                       |                  |          |
| 5          |             | Gray to tan, mottled                             |           | SS -1              | 2.5-4.0            | 3-4-5 (9)             |                  |          |
|            |             | Orange and gray, medium dense                    |           | SS -2              | 4.5-6.0            | 3-3-4 (7)             |                  |          |
| 10         |             |                                                  |           | SS -3              | 7.5-9.0            | 4-6-9 (15)            |                  |          |
|            |             |                                                  |           | UD -4              | 9.5-11.5           |                       |                  |          |
| 15         |             | Light gray                                       |           | SS -5              | 14.5-16.0          | 3-3-7 (10)            |                  |          |
| 20         |             | Loose, light gray to orange                      |           | SS -6              | 19.5-21.0          | 3-3-6 (9)             |                  |          |
| 25         |             | White, yellow and gray                           | 146.2     | SS -7              | 24.5-26.0          | 3-4-4 (8)             |                  |          |

**CONFIDENTIAL BUSINESS INFORMATION**

(Continued Next Page)



# LOG OF TEST BORING

**BORING AP1-3**  
PAGE 2 OF 2

SOUTHERN COMPANY SERVICES, INC.  
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Mitchell Ash Ponds

LOCATION Albany, GA

GEOTECH ENGINEERING LOGS - ESEE DATABASE.GDT - 5/7/10 09:20 - T:\ESEE MAJOR PROJECTS\PROJECTS\MITCHELL STEAM PLANT\2010\ASH POND DIKE\LOGS.GPJ

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION                             | ELEVATION | SAMPLE TYPE NUMBER | SAMPLE DEPTH (ft.) | BLOW COUNTS (N VALUE) | RECOVERY % (RQD) | COMMENTS |
|------------|-------------|--------------------------------------------------|-----------|--------------------|--------------------|-----------------------|------------------|----------|
| 30         |             | White, yellow and gray (Cont)                    |           |                    |                    |                       |                  |          |
|            |             | Purple, gray and brown, soft SANDY FAT CLAY (CH) |           | SS-8               | 29.5-31.0          | WH-WH-4 (4)           |                  |          |
| 35         |             | White, sandy, weathered LIMESTONE                | 136.2     | SS-9               | 34.5-36.0          | 4-5-3 (8)             |                  |          |
| 40         |             |                                                  |           | SS-10              | 39.5-41.0          | 6-12-15 (27)          |                  |          |
| 45         |             |                                                  |           | SS-11              | 44.5-46.0          | WH-5-7 (12)           |                  |          |
|            |             | Bottom of borehole at 46.0 feet.                 | 124.7     |                    |                    |                       |                  |          |
| 50         |             |                                                  |           |                    |                    |                       |                  |          |
| 55         |             |                                                  |           |                    |                    |                       |                  |          |

**CONFIDENTIAL BUSINESS INFORMATION**



# LOG OF TEST BORING

**BORING AP1-4**  
PAGE 1 OF 2

SOUTHERN COMPANY SERVICES, INC.  
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Mitchell Ash Ponds

LOCATION Albany, GA

DATE STARTED 3/30/2010 COMPLETED 3/30/2010 SURF. ELEV. 166.6 COORDINATES: N 523,067.93 E 2,306,173.33

CONTRACTOR SCS Field Services EQUIPMENT CME-550X METHOD Hollow Stem Auger

DRILLED BY S. Denty LOGGED BY J. Jordan CHECKED BY J. Jordan ANGLE \_\_\_\_\_ BEARING \_\_\_\_\_

BORING DEPTH 51 ft. GROUND WATER DEPTH: DURING \_\_\_\_\_ COMP. \_\_\_\_\_ DELAYED \_\_\_\_\_

NOTES Toe - West Side

GEOTECH ENGINEERING LOGS - ESEE DATABASE.GDT - 5/7/10 09:20 - THESE MAJOR PROJECTS/PROJECTS/MITCHELL STEAM PLANT/2010/ASH POND DIKELOGS.GPJ

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION                                               | ELEVATION | SAMPLE TYPE NUMBER | SAMPLE DEPTH (ft.) | BLOW COUNTS (N VALUE) | RECOVERY % (RQD) | COMMENTS |
|------------|-------------|--------------------------------------------------------------------|-----------|--------------------|--------------------|-----------------------|------------------|----------|
|            |             | Grayish brown, loose, fine CLAYEY SAND (SC)                        |           |                    |                    |                       |                  |          |
| 5          |             | Light brown, soft, SANDY LEAN CLAY (CL)                            | 162.1     | SS -1              | 2.5-4.0            |                       |                  |          |
|            |             |                                                                    |           | SS -2              | 4.5-6.0            |                       |                  |          |
| 10         |             | Light gray to dark gray, we, very loose, fine SAND (SP), with clay | 159.1     | SS -3              | 7.5-9.0            |                       |                  |          |
|            |             |                                                                    |           | UD -4              | 9.5-11.5           |                       |                  |          |
| 15         |             | With coarse sand and pebbles                                       |           |                    |                    |                       |                  |          |
|            |             | Tan to orange, loose, fine to coarse SAND (SW)                     | 151.1     | SS -5              | 14.5-16.0          |                       |                  |          |
| 20         |             |                                                                    |           | SS -6              | 19.5-21.0          |                       |                  |          |
| 25         |             | Firm, red to tan, SANDY LEAN CLAY (CL)                             | 142.1     | SS -7              | 24.5-26.0          |                       |                  |          |

**CONFIDENTIAL BUSINESS INFORMATION**

(Continued Next Page)



# LOG OF TEST BORING

**BORING AP1-4**  
PAGE 2 OF 2

SOUTHERN COMPANY SERVICES, INC.  
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Mitchell Ash Ponds

LOCATION Albany, GA

GEOTECH ENGINEERING LOGS - ESEE DATABASE.GDT - 5/7/10 09:20 - T:\ESEE MAJOR PROJECTS\PROJECTS\MITCHELL STEAM PLANT\2010\ASH POND DIKE\LOGS.GPJ

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION                             | ELEVATION      | SAMPLE TYPE NUMBER | SAMPLE DEPTH (ft.) | BLOW COUNTS (N VALUE) | RECOVERY % (RQD) | COMMENTS |
|------------|-------------|--------------------------------------------------|----------------|--------------------|--------------------|-----------------------|------------------|----------|
| 30         |             | Firm, red to tan, SANDY LEAN CLAY (CL)<br>(Cont) |                |                    |                    |                       |                  |          |
|            |             | Soft                                             |                | SS-8               | 29.5-31.0          |                       |                  |          |
| 35         |             | Red to tan, loose CLAYEY SAND (SC)               | 132.1          | SS-9               | 34.5-36.0          |                       |                  |          |
| 40         |             |                                                  |                | SS-10              | 39.5-41.0          |                       |                  |          |
| 45         |             |                                                  |                | SS-11              | 44.5-46.0          |                       |                  |          |
| 50         |             | Medium dense<br>White, sandy weathered LIMESTONE | 116.1<br>115.6 | SS-12              | 49.5-51.0          |                       |                  |          |
|            |             | Bottom of borehole at 51.0 feet.                 |                |                    |                    |                       |                  |          |
| 55         |             |                                                  |                |                    |                    |                       |                  |          |

**CONFIDENTIAL BUSINESS INFORMATION**



# LOG OF TEST BORING

**BORING AP1-5**  
PAGE 1 OF 3

SOUTHERN COMPANY SERVICES, INC.  
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Mitchell Ash Ponds  
LOCATION Albany, GA

DATE STARTED 3/23/2010 COMPLETED 3/23/2010 SURF. ELEV. 190.7 COORDINATES: N 523,089.01 E 2,306,231.67

CONTRACTOR SCS Field Services EQUIPMENT CME-550X METHOD Hollow Stem Auger

DRILLED BY S. Denty LOGGED BY G. Wilson CHECKED BY J. Jordan ANGLE \_\_\_\_\_ BEARING \_\_\_\_\_

BORING DEPTH 81 ft. GROUND WATER DEPTH: DURING \_\_\_\_\_ COMP. \_\_\_\_\_ DELAYED \_\_\_\_\_

NOTES Crest - West Side

GEOTECH ENGINEERING LOGS - ESEE DATABASE: GDT - 5/7/10 09:20 - T:\ESEE MAJOR PROJECTS\PROJECTS\MITCHELL STEAM PLANT\2010\ASH POND DIKE\LOGS.GPJ

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION                    | ELEVATION | SAMPLE TYPE NUMBER | SAMPLE DEPTH (ft.) | BLOW COUNTS (N VALUE) | RECOVERY % (RQD) | COMMENTS |
|------------|-------------|-----------------------------------------|-----------|--------------------|--------------------|-----------------------|------------------|----------|
| 5          |             | Medium stiff, red, sandy lean CLAY (CL) |           | SS -1              | 2.5-4.0            | 3-3-5 (8)             |                  |          |
|            |             | Soft                                    |           | SS -2              | 4.5-6.0            | 2-2-3 (5)             |                  |          |
|            |             |                                         | 183.2     |                    |                    |                       |                  |          |
| 10         |             | Medium stiff, brown, silty SAND (SM)    |           | SS -3              | 7.5-9.0            | 3-2-4 (6)             |                  |          |
|            |             |                                         |           |                    | UD -4              | 9.5-11.5              |                  |          |
| 15         |             | Medium stiff, red, lean CLAY (CL)       |           | SS -5              | 14.5-16.0          | 5-3-4 (7)             |                  |          |
|            |             |                                         |           |                    |                    |                       |                  |          |
| 20         |             |                                         |           | SS -6              | 19.5-21.0          | 3-3-3 (6)             |                  |          |
|            |             |                                         |           |                    |                    |                       |                  |          |
| 25         |             | Stiff                                   |           | SS -7              | 24.5-26.0          | 5-5-6 (11)            |                  |          |
|            |             |                                         |           |                    |                    |                       |                  |          |

**CONFIDENTIAL BUSINESS INFORMATION**

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# LOG OF TEST BORING

**BORING AP1-5**  
PAGE 2 OF 3

SOUTHERN COMPANY SERVICES, INC.  
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Mitchell Ash Ponds  
LOCATION Albany, GA

GEOTECH ENGINEERING LOGS - ESEE DATABASE.GDT - 5/7/10 09:20 - T:\ESEE MAJOR PROJECTS\PROJECTS\MITCHELL STEAM PLANT\2010\ASH POND DIKE\LOGS.GPJ

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION                         | ELEVATION | SAMPLE TYPE NUMBER | SAMPLE DEPTH (ft.) | BLOW COUNTS (N VALUE) | RECOVERY % (RQD) | COMMENTS |
|------------|-------------|----------------------------------------------|-----------|--------------------|--------------------|-----------------------|------------------|----------|
|            |             | Medium stiff, red, lean CLAY (CL) (Cont)     |           |                    |                    |                       |                  |          |
| 30         |             | Stiff, mottled red/brown/gray, fat CLAY (CH) | 161.2     | SS-8               | 29.5-31.0          | 3-4-6 (10)            |                  |          |
| 35         |             | Very stiff, gray, sandy CLAY (CL)            | 156.2     | SS-9               | 34.5-36.0          | 6-8-11 (19)           |                  |          |
| 40         |             | Very loose, red, clayey SAND (SC)            | 151.2     | SS-10              | 39.5-41.0          | WH-WH-WH (0)          |                  |          |
| 45         |             |                                              |           | SS-11              | 44.5-46.0          | WH-WH-3 (3)           |                  |          |
| 50         |             | Medium stiff, red, sandy CLAY (CL)           | 141.2     | SS-12              | 49.5-51.0          | 2-3-4 (7)             |                  |          |
| 55         |             | Loose, red, clayey SAND (SC)                 | 136.2     | SS-13              | 54.5-56.0          | 2-3-5 (8)             |                  |          |

**CONFIDENTIAL BUSINESS INFORMATION**

(Continued Next Page)



# LOG OF TEST BORING

**BORING AP1-5**  
PAGE 3 OF 3

SOUTHERN COMPANY SERVICES, INC.  
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Mitchell Ash Ponds  
LOCATION Albany, GA

| DEPTH (ft)                       | GRAPHIC LOG | MATERIAL DESCRIPTION                                | ELEVATION | SAMPLE TYPE NUMBER | SAMPLE DEPTH (ft.) | BLOW COUNTS (N VALUE) | RECOVERY % (RQD) | COMMENTS |
|----------------------------------|-------------|-----------------------------------------------------|-----------|--------------------|--------------------|-----------------------|------------------|----------|
| 60                               |             | Loose, red, clayey SAND (SC) (Cont)<br>Medium dense | 126.2     | SS-14              | 59.5-61.0          | 3-5-9<br>(14)         |                  |          |
| 65                               |             |                                                     |           | SS-15              | 64.5-66.0          | 1-3-5<br>(8)          |                  |          |
| 70                               |             | Very soft                                           | 116.2     | SS-16              | 69.5-71.0          | WH-WH-WH<br>(0)       |                  |          |
| 75                               |             | White, very loose, clayey sand/weathered limestone  | 116.2     | SS-17              | 74.5-76.0          | WH-WH-WH<br>(0)       |                  |          |
| 80                               |             |                                                     | 109.7     | SS-18              | 79.5-81.0          | 9-11-22<br>(33)       |                  |          |
| Bottom of borehole at 81.0 feet. |             |                                                     |           |                    |                    |                       |                  |          |
| 85                               |             |                                                     |           |                    |                    |                       |                  |          |
| 90                               |             |                                                     |           |                    |                    |                       |                  |          |

GEO TECH ENGINEERING LOGS - ESEE DATABASE.GDT - 5/7/10 09:20 - T:EESEE MAJOR PROJECTS\PROJECTS\MITCHELL STEAM PLANT\2010\ASH POND DIKE\LOGS.GPJ

**CONFIDENTIAL BUSINESS INFORMATION**



# LOG OF TEST BORING

**BORING AP1-6**  
PAGE 1 OF 2

SOUTHERN COMPANY SERVICES, INC.  
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Mitchell Ash Ponds

LOCATION Albany, GA

DATE STARTED 3/24/2010 COMPLETED 3/24/2010 SURF. ELEV. 187.4 COORDINATES: N 523,237.56 E 2,306,433.29

CONTRACTOR SCS Field Services EQUIPMENT CME-550X METHOD Hollow Stem Auger

DRILLED BY S. Denty LOGGED BY G. Wilson CHECKED BY J. Jordan ANGLE \_\_\_\_\_ BEARING \_\_\_\_\_

BORING DEPTH 31 ft. GROUND WATER DEPTH: DURING \_\_\_\_\_ COMP. \_\_\_\_\_ DELAYED \_\_\_\_\_

NOTES Ash - West Side

GEOTECH ENGINEERING LOGS - ESEE DATABASE.GDT - 5/7/10 09:20 - T:\ESEE MAJOR PROJECTS\PROJECTS\MITCHELL STEAM PLANT\2010\ASH POND DIKE\LOGS.GPJ

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION               | ELEVATION | SAMPLE TYPE NUMBER | SAMPLE DEPTH (ft.) | BLOW COUNTS (N VALUE) | RECOVERY % (RQD) | COMMENTS |
|------------|-------------|------------------------------------|-----------|--------------------|--------------------|-----------------------|------------------|----------|
| 5          |             | (Fly ash)                          |           | SS -1              | 2.5-4.0            | 1-WH-1 (1)            |                  |          |
|            |             |                                    |           | SS -2              | 4.5-6.0            | 2-2-4 (6)             |                  |          |
| 10         |             |                                    |           | SS -3              | 7.5-9.0            | 2-1-2 (3)             |                  |          |
|            |             |                                    |           | UD -4              | 9.5-11.5           |                       |                  |          |
| 15         |             |                                    |           | SS -5              | 14.5-16.0          | WH-WH-1 (1)           |                  |          |
| 20         |             | Very soft, brownish red, CLAY (CL) | 167.9     | SS -6              | 19.5-21.0          | 2-1-1 (2)             |                  |          |
| 25         |             |                                    |           | UD -7              | 24.5-26.5          |                       |                  |          |

**CONFIDENTIAL BUSINESS INFORMATION**

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# LOG OF TEST BORING

**BORING AP1-6**  
PAGE 2 OF 2

SOUTHERN COMPANY SERVICES, INC.  
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Mitchell Ash Ponds  
LOCATION Albany, GA

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION                       | ELEVATION | SAMPLE TYPE NUMBER | SAMPLE DEPTH (ft.) | BLOW COUNTS (N VALUE) | RECOVERY % (RQD) | COMMENTS |
|------------|-------------|--------------------------------------------|-----------|--------------------|--------------------|-----------------------|------------------|----------|
|            | 30          | Very soft, brownish red, CLAY (CL) (Con't) |           |                    |                    |                       |                  |          |
|            |             | Stiff                                      | 156.4     | SS-8               | 29.5-31.0          | 5-5-9 (14)            |                  |          |

Bottom of borehole at 31.0 feet.

GEOTECH ENGINEERING LOGS - ESEE DATABASE.GDT - 5/7/10 09:20 - T:\ESEE MAJOR PROJECTS\PROJECTS\MITCHELL STEAM PLANT\2010\ASH POND DIKE\LOGS.GPJ

**CONFIDENTIAL BUSINESS INFORMATION**



# LOG OF TEST BORING

**BORING AP2-1**  
PAGE 1 OF 3

SOUTHERN COMPANY SERVICES, INC.  
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Mitchell Ash Ponds

LOCATION Albany, GA

DATE STARTED 3/10/2010 COMPLETED 3/15/2010 SURF. ELEV. 194.8 COORDINATES: N 522,281.75 E 2,305,631.70

CONTRACTOR SCS Field Services EQUIPMENT CME-550X METHOD Hollow Stem Auger; Mud Rotary

DRILLED BY S. Denty LOGGED BY G. Wilson CHECKED BY J. Jordan ANGLE \_\_\_\_\_ BEARING \_\_\_\_\_

BORING DEPTH 70 ft. GROUND WATER DEPTH: DURING \_\_\_\_\_ COMP. \_\_\_\_\_ DELAYED \_\_\_\_\_

NOTES Crest - Northwest Side

GEO TECH ENGINEERING LOGS - ESEE DATABASE.GDT - 5/7/10 09:20 - T:\ESEE MAJOR PROJECTS\PROJECTS\MITCHELL STEAM PLANT\2010\ASH POND DIKE\LOGS.GPJ

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION                          | ELEVATION | SAMPLE TYPE NUMBER | SAMPLE DEPTH (ft.) | BLOW COUNTS (N VALUE) | RECOVERY % (RQD) | COMMENTS                                                                 |  |
|------------|-------------|-----------------------------------------------|-----------|--------------------|--------------------|-----------------------|------------------|--------------------------------------------------------------------------|--|
| 5          |             | Stiff, Reddish tan sandy fat CLAY (CH)        |           | SS -1              | 2.5-4.0            | 6-4-8 (12)            |                  |                                                                          |  |
|            |             |                                               |           | SS -2              | 4.5-6.0            | 6-4-8 (12)            |                  |                                                                          |  |
|            |             | Reddish brown                                 |           | SS -3              | 7.5-9.0            | 4-6-7 (13)            |                  |                                                                          |  |
| 10         |             | Very stiff, brown, silty SAND (SM)            | 185.3     | SS -4              | 9.5-11.0           | 5-9-9 (18)            |                  |                                                                          |  |
| 15         |             |                                               |           | UD -5              | 14.5-16.5          |                       |                  | c' = 130 psf<br>Φ = 32.8 deg. (MC = 18.6%;<br>LL = 0; PL=NP; FC = 46.1%) |  |
|            |             | Medium dense, reddish brown, clayey SAND (SC) | 178.3     |                    | SS -6              | 19.5-21.0             | 4-5-9 (14)       |                                                                          |  |
| 20         |             |                                               |           |                    | SS -7              | 24.5-26.0             | 5-6-9 (15)       |                                                                          |  |
| 25         |             |                                               |           |                    |                    |                       |                  |                                                                          |  |

**CONFIDENTIAL BUSINESS INFORMATION**

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# LOG OF TEST BORING

**BORING AP2-1**  
PAGE 2 OF 3

SOUTHERN COMPANY SERVICES, INC.  
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Mitchell Ash Ponds  
LOCATION Albany, GA

GEOTECH ENGINEERING LOGS - ESEE DATABASE.GDT - 5/7/10 09:20 - T:\ESEE MAJOR PROJECTS\PROJECTS\MITCHELL STEAM PLANT\2010\ASH POND DIKE\LOGS.GPJ

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION                                 | ELEVATION | SAMPLE TYPE NUMBER | SAMPLE DEPTH (ft.) | BLOW COUNTS (N VALUE) | RECOVERY % (RQD) | COMMENTS                                                                  |
|------------|-------------|------------------------------------------------------|-----------|--------------------|--------------------|-----------------------|------------------|---------------------------------------------------------------------------|
|            |             | Medium dense, reddish brown, clayey SAND (SC) (Cont) |           |                    |                    |                       |                  |                                                                           |
| 30         |             | Loose                                                |           | SS -8              | 29.5-31.0          | 4-4-6 (10)            |                  |                                                                           |
| 35         |             | Medium dense                                         |           | SS -9              | 34.5-36.0          | 4-6-7 (13)            |                  |                                                                           |
| 40         |             | Loose                                                |           | SS -10             | 39.5-41.0          | 3-4-6 (10)            |                  |                                                                           |
| 45         |             | Medium dense                                         |           | SS -11             | 44.5-46.0          | 3-6-15 (21)           |                  |                                                                           |
|            |             | Medium dense, light tan, silty SAND (SM)             | 148.8     |                    |                    |                       |                  |                                                                           |
| 50         |             |                                                      |           | UD -12             | 49.5-51.5          |                       |                  | c' = 288 psf<br>Φ' = 18.7 deg. (MC = 24.8%;<br>LL = 0; PL=NP; FC = 47.7%) |
| 55         |             |                                                      |           | SS -13             | 54.5-56.0          | 4-7-6 (13)            |                  |                                                                           |

**CONFIDENTIAL BUSINESS INFORMATION**



# LOG OF TEST BORING

**BORING AP2-1**  
PAGE 3 OF 3

SOUTHERN COMPANY SERVICES, INC.  
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Mitchell Ash Ponds

LOCATION Albany, GA

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION                            | ELEVATION | SAMPLE TYPE NUMBER | SAMPLE DEPTH (ft.) | BLOW COUNTS (N VALUE) | RECOVERY % (RQD) | COMMENTS                                                                                                                                                                     |
|------------|-------------|-------------------------------------------------|-----------|--------------------|--------------------|-----------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 60         |             | Medium dense, light tan, silty SAND (SM) (Cont) |           | SS                 | 59.5-              | 7-9-11                |                  |                                                                                                                                                                              |
|            |             |                                                 |           | -14                | 61.0               | (20)                  |                  |                                                                                                                                                                              |
| 65         |             |                                                 |           |                    |                    |                       |                  | Due to material being pushed up into the augers, the drillers switched to mud rotary. Due to very little return of mud, the boring was terminated at approximately 70 feet.. |
|            |             |                                                 |           |                    |                    |                       |                  |                                                                                                                                                                              |
| 70         |             |                                                 | 124.8     |                    |                    |                       |                  |                                                                                                                                                                              |
|            |             | Bottom of borehole at 70.0 feet.                |           |                    |                    |                       |                  |                                                                                                                                                                              |
| 75         |             |                                                 |           |                    |                    |                       |                  |                                                                                                                                                                              |
| 80         |             |                                                 |           |                    |                    |                       |                  |                                                                                                                                                                              |
| 85         |             |                                                 |           |                    |                    |                       |                  |                                                                                                                                                                              |
| 90         |             |                                                 |           |                    |                    |                       |                  |                                                                                                                                                                              |

**CONFIDENTIAL BUSINESS INFORMATION**

GEOTECH ENGINEERING LOGS - ESEE DATABASE.GDT - 5/7/10 09:20 - T:\ESEE MAJOR PROJECTS\PROJECTS\MITCHELL STEAM PLANT\2010\ASH POND DIKE\LOGS.GPJ



# LOG OF TEST BORING

**BORING AP2-2**  
PAGE 1 OF 2

SOUTHERN COMPANY SERVICES, INC.  
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Mitchell Ash Ponds

LOCATION Albany, GA

DATE STARTED 3/23/2010 COMPLETED 3/23/2010 SURF. ELEV. 172.1 COORDINATES: N 522,358.18 E 2,305,591.37

CONTRACTOR SCS Field Services EQUIPMENT CME-550X METHOD Hollow Stem Auger

DRILLED BY S. Denty LOGGED BY G. Wilson CHECKED BY J. Jordan ANGLE \_\_\_\_\_ BEARING \_\_\_\_\_

BORING DEPTH 36 ft. GROUND WATER DEPTH: DURING \_\_\_\_\_ COMP. \_\_\_\_\_ DELAYED \_\_\_\_\_

NOTES Toe - Northwest

GEO TECH ENGINEERING LOGS - ESEE DATABASE.GDT - 5/7/10 09:20 - T:\ESEE MAJOR PROJECTS\PROJECTS\MITCHELL STEAM PLANT\2010\ASH POND DIKE\LOGS.GPJ

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION                                      | ELEVATION | SAMPLE TYPE NUMBER | SAMPLE DEPTH (ft.) | BLOW COUNTS (N VALUE) | RECOVERY % (RQD) | COMMENTS |
|------------|-------------|-----------------------------------------------------------|-----------|--------------------|--------------------|-----------------------|------------------|----------|
| 5          |             | Loose, Reddish brown clayey SAND (SC)<br><br>Medium dense |           | SS -1              | 2.5-4.0            | 2-3-5 (8)             |                  |          |
|            |             |                                                           |           | SS -2              | 4.5-6.0            | 4-6-10 (16)           |                  |          |
| 10         |             |                                                           |           | SS -3              | 7.5-9.0            | 5-5-7 (12)            |                  |          |
|            |             |                                                           |           | UD -4              | 9.5-11.5           |                       |                  |          |
| 15         |             |                                                           |           | SS -5              | 14.5-16.0          | 5-7-9 (16)            |                  |          |
| 20         |             |                                                           |           | SS -6              | 19.5-21.0          | 6-7-9 (16)            |                  |          |
| 25         |             |                                                           |           | SS -7              | 24.5-26.0          | 3-5-6 (11)            |                  |          |

**CONFIDENTIAL BUSINESS INFORMATION**



# LOG OF TEST BORING

**BORING AP2-2**  
PAGE 2 OF 2

SOUTHERN COMPANY SERVICES, INC.  
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Mitchell Ash Ponds  
LOCATION Albany, GA

GEO TECH ENGINEERING LOGS - ESEE DATABASE.GDT - 5/7/10 09:20 - T:\ESEE MAJOR PROJECTS\PROJECTS\MITCHELL STEAM PLANT\2010\ASH POND DIKE\LOGS.GPJ

| DEPTH (ft)                       | GRAPHIC LOG | MATERIAL DESCRIPTION                                 | ELEVATION | SAMPLE TYPE NUMBER | SAMPLE DEPTH (ft.) | BLOW COUNTS (N VALUE) | RECOVERY % (RQD) | COMMENTS |
|----------------------------------|-------------|------------------------------------------------------|-----------|--------------------|--------------------|-----------------------|------------------|----------|
| 30                               |             | Loose                                                |           | SS-8               | 29.5-31.0          | 4-3-5 (8)             |                  |          |
| 35                               |             | White, medium dense, clayey SAND/weathered limestone | 137.6     | SS-9               | 34.5-36.0          | 5-5-9 (14)            |                  |          |
| Bottom of borehole at 36.0 feet. |             |                                                      |           |                    |                    |                       |                  |          |
| 40                               |             |                                                      |           |                    |                    |                       |                  |          |
| 45                               |             |                                                      |           |                    |                    |                       |                  |          |
| 50                               |             |                                                      |           |                    |                    |                       |                  |          |
| 55                               |             |                                                      |           |                    |                    |                       |                  |          |

**CONFIDENTIAL BUSINESS INFORMATION**



# LOG OF TEST BORING

**BORING AP2-3**  
PAGE 1 OF 3

SOUTHERN COMPANY SERVICES, INC.  
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Mitchell Ash Ponds

LOCATION Albany, GA

DATE STARTED 3/16/2010 COMPLETED 3/16/2010 SURF. ELEV. 193.7 COORDINATES: N 521,792.93 E 2,305,413.89

CONTRACTOR SCS Field Services EQUIPMENT CME-550X METHOD Hollow Stem Auger

DRILLED BY S. Denty LOGGED BY J. Jordan CHECKED BY J. Jordan ANGLE \_\_\_\_\_ BEARING \_\_\_\_\_

BORING DEPTH 61 ft. GROUND WATER DEPTH: DURING \_\_\_\_\_ COMP. \_\_\_\_\_ DELAYED \_\_\_\_\_

NOTES Crest - West Side

GEOTECH ENGINEERING LOGS - ESEE DATABASE.GDT - 5/7/10 09:20 - T:\ESEE MAJOR PROJECTS\PROJECTS\MITCHELL STEAM PLANT\2010\ASH POND DIKE\LOGS.GPJ

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION                      | ELEVATION               | SAMPLE TYPE NUMBER | SAMPLE DEPTH (ft.) | BLOW COUNTS (N VALUE) | RECOVERY % (RQD) | COMMENTS |  |
|------------|-------------|-------------------------------------------|-------------------------|--------------------|--------------------|-----------------------|------------------|----------|--|
| 5          |             | Stiff, brownish red, SANDY LEAN CLAY (CL) |                         | SS -1              | 2.5-4.0            | 5-5-7 (12)            |                  |          |  |
|            |             | Red, yellow and gray, mottled             |                         | SS -2              | 4.5-6.0            | 4-4-6 (10)            |                  |          |  |
|            |             |                                           |                         | SS -3              | 7.5-9.0            | 5-5-8 (13)            |                  |          |  |
| 10         |             |                                           |                         | SS -4              | 9.5-11.0           | 4-5-7 (12)            |                  |          |  |
| 15         |             |                                           |                         | ST -5              | 14.5-16.5          |                       |                  |          |  |
| 20         |             |                                           | Firm, light gray to tan |                    | SS -6              | 19.5-21.0             | 4-3-4 (7)        |          |  |
| 25         |             |                                           |                         |                    | SS -7              | 24.5-26.0             | 3-3-4 (7)        |          |  |

c' = 100 psf  
φ = 33.4 deg. (MC = 19.7%;  
LL = 0; PL=NP; FC = 35.7%)

**CONFIDENTIAL BUSINESS INFORMATION**

(Continued Next Page)



# LOG OF TEST BORING

**BORING AP2-3**  
PAGE 2 OF 3

SOUTHERN COMPANY SERVICES, INC.  
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Mitchell Ash Ponds

LOCATION Albany, GA

GEOTECH ENGINEERING LOGS - ESEE DATABASE.GDT - 5/7/10 09:20 - T:\ESEE MAJOR PROJECTS\PROJECTS\MITCHELL STEAM PLANT\2010\ASH POND DIKE\LOGS.GPJ

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION                       | ELEVATION | SAMPLE TYPE NUMBER | SAMPLE DEPTH (ft.) | BLOW COUNTS (N VALUE) | RECOVERY % (RQD) | COMMENTS   |
|------------|-------------|--------------------------------------------|-----------|--------------------|--------------------|-----------------------|------------------|------------|
| 30         |             | Very stiff                                 | 154.2     | SS-8               | 29.5-31.0          | 6-7-10 (17)           |                  |            |
|            |             |                                            |           |                    |                    |                       |                  |            |
| 35         |             | SS-9                                       |           | 34.5-36.0          | 4-6-10 (16)        |                       |                  |            |
|            |             |                                            |           |                    |                    |                       |                  |            |
| 40         |             | Medium dense, white, fine CLAYEY SAND (SC) |           | SS-10              | 39.5-41.0          | 6-7-11 (18)           |                  |            |
| 45         |             | Tan, cemented                              |           |                    |                    |                       |                  |            |
|            |             |                                            |           |                    |                    |                       |                  |            |
| 50         |             |                                            |           | ST-12              | 49.5-51.5          |                       |                  |            |
| 55         |             | Very loose, brown, wet                     |           |                    |                    |                       |                  |            |
|            |             |                                            |           |                    |                    | SS-13                 | 54.5-56.0        | WH-1-3 (4) |

**CONFIDENTIAL BUSINESS INFORMATION**

(Continued Next Page)



# LOG OF TEST BORING

**BORING AP2-3**  
PAGE 3 OF 3

SOUTHERN COMPANY SERVICES, INC.  
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Mitchell Ash Ponds

LOCATION Albany, GA

| DEPTH (ft)                       | GRAPHIC LOG | MATERIAL DESCRIPTION                                   | ELEVATION      | SAMPLE TYPE NUMBER | SAMPLE DEPTH (ft.) | BLOW COUNTS (N VALUE) | RECOVERY % (RQD) | COMMENTS |
|----------------------------------|-------------|--------------------------------------------------------|----------------|--------------------|--------------------|-----------------------|------------------|----------|
| 60                               |             | White, medium dense, clayey sand / weathered limestone | 134.2<br>132.7 | SS<br>-14          | 59.5-<br>61.0      | 8-6-9<br>(15)         |                  |          |
| Bottom of borehole at 61.0 feet. |             |                                                        |                |                    |                    |                       |                  |          |
| 65                               |             |                                                        |                |                    |                    |                       |                  |          |
| 70                               |             |                                                        |                |                    |                    |                       |                  |          |
| 75                               |             |                                                        |                |                    |                    |                       |                  |          |
| 80                               |             |                                                        |                |                    |                    |                       |                  |          |
| 85                               |             |                                                        |                |                    |                    |                       |                  |          |
| 90                               |             |                                                        |                |                    |                    |                       |                  |          |

GEOTECH ENGINEERING LOGS - ESEE DATABASE.GDT - 5/7/10 09:20 - T:\ESEE MAJOR PROJECTS\PROJECTS\MITCHELL - STEAM PLANT\2010\ASH POND DIKE\LOGS.GPJ

**CONFIDENTIAL BUSINESS INFORMATION**



# LOG OF TEST BORING

**BORING AP2-4**  
PAGE 1 OF 2

SOUTHERN COMPANY SERVICES, INC.  
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Mitchell Ash Ponds

LOCATION Albany, GA

DATE STARTED 3/22/2010 COMPLETED 3/22/2010 SURF. ELEV. 170.3 COORDINATES: N 521,793.48 E 2,305,320.86

CONTRACTOR SCS Field Services EQUIPMENT CME-550X METHOD Hollow Stem Auger

DRILLED BY S. Denty LOGGED BY G. Wilson CHECKED BY J. Jordan ANGLE \_\_\_\_\_ BEARING \_\_\_\_\_

BORING DEPTH 51 ft. GROUND WATER DEPTH: DURING \_\_\_\_\_ COMP. \_\_\_\_\_ DELAYED \_\_\_\_\_

NOTES Toe - West Side

GEO TECH ENGINEERING LOGS - ESEE DATABASE.GDT - 5/7/10 09:20 - T:\ESEE MAJOR PROJECTS\PROJECTS\MITCHELL STEAM PLANT\2010\ASH POND DIKE\LOGS.GPJ

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION                  | ELEVATION | SAMPLE TYPE NUMBER | SAMPLE DEPTH (ft.) | BLOW COUNTS (N VALUE) | RECOVERY % (RQD) | COMMENTS |
|------------|-------------|---------------------------------------|-----------|--------------------|--------------------|-----------------------|------------------|----------|
|            |             | Stiff, reddish brown sandy CLAY (CL)  |           |                    |                    |                       |                  |          |
| 5          |             | Very stiff                            |           | SS -1              | 2.5-4.0            | 4-5-6 (11)            |                  |          |
|            |             |                                       |           | SS -2              | 4.5-6.0            | 6-8-11 (19)           |                  |          |
| 10         |             |                                       |           | SS -3              | 7.5-9.0            | 7-8-11 (19)           |                  |          |
|            |             |                                       |           | UD -4              | 9.5-11.5           |                       |                  |          |
| 15         |             | Medium dense, brown, clayey SAND (SC) | 155.8     | SS -5              | 14.5-16.0          | 5-6-9 (15)            |                  |          |
| 20         |             | Mottled gray/red/br                   |           | SS -6              | 19.5-21.0          | 5-4-6 (10)            |                  |          |
| 25         |             | Loose                                 |           | SS -7              | 24.5-26.0          | 4-4-5 (9)             |                  |          |

**CONFIDENTIAL BUSINESS INFORMATION**

(Continued Next Page)



# LOG OF TEST BORING

**BORING AP2-4**  
PAGE 2 OF 2

SOUTHERN COMPANY SERVICES, INC.  
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Mitchell Ash Ponds  
LOCATION Albany, GA

GEOTECH ENGINEERING LOGS - ESEE DATABASE.GDT - 5/7/10 09:20 - T:\ESEE MAJOR PROJECTS\PROJECTS\MITCHELL STEAM PLANT\2010\ASH POND DIKE\LOGS.GPJ

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION                                   | ELEVATION                        | SAMPLE TYPE NUMBER | SAMPLE DEPTH (ft.) | BLOW COUNTS (N VALUE) | RECOVERY % (RQD) | COMMENTS |
|------------|-------------|--------------------------------------------------------|----------------------------------|--------------------|--------------------|-----------------------|------------------|----------|
| 30         |             | Medium dense, brown, clayey SAND (SC) (Cont)           |                                  |                    |                    |                       |                  |          |
|            |             |                                                        |                                  | SS -8              | 29.5-31.0          | 3-4-4 (8)             |                  |          |
| 35         |             |                                                        |                                  | SS -9              | 34.5-36.0          | 1-3-4 (7)             |                  |          |
| 40         |             | Very loose                                             |                                  | SS -10             | 39.5-41.0          | 3-2-1 (3)             |                  |          |
| 45         |             |                                                        | Very soft, brown sandy CLAY (CL) | 125.8              | SS -11             | 44.5-46.0             | WR-WR-WR (0)     |          |
| 50         |             | White, medium dense, clayey sand / weathered limestone | 120.8                            | SS -12             | 49.5-51.0          | 7-8-11 (19)           |                  |          |
|            |             | Bottom of borehole at 51.0 feet.                       | 119.3                            |                    |                    |                       |                  |          |
| 55         |             |                                                        |                                  |                    |                    |                       |                  |          |

**CONFIDENTIAL BUSINESS INFORMATION**



# LOG OF TEST BORING

**BORING AP2-5**  
PAGE 1 OF 2

SOUTHERN COMPANY SERVICES, INC.  
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Mitchell Ash Ponds  
LOCATION Albany, GA

DATE STARTED 3/16/2010 COMPLETED 3/16/2010 SURF. ELEV. 194.2 COORDINATES: N 521,551.73 E 2,305,830.83

CONTRACTOR SCS Field Services EQUIPMENT CME-550X METHOD Hollow Stem Auger

DRILLED BY S. Denty LOGGED BY J. Jordan CHECKED BY J. Jordan ANGLE \_\_\_\_\_ BEARING \_\_\_\_\_

BORING DEPTH 56 ft. GROUND WATER DEPTH: DURING \_\_\_\_\_ COMP. \_\_\_\_\_ DELAYED \_\_\_\_\_

NOTES Crest - South Side

GEO TECH ENGINEERING LOGS - ESEE DATABASE.GDT - 5/7/10 09:20 - T:\ESEE MAJOR PROJECTS\PROJECTS\MITCHELL STEAM PLANT\2010\ASH POND DIKE\LOGS.GPJ

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION                              | ELEVATION                                                 | SAMPLE TYPE NUMBER | SAMPLE DEPTH (ft.) | BLOW COUNTS (N VALUE) | RECOVERY % (RQD) | COMMENTS |                                   |
|------------|-------------|---------------------------------------------------|-----------------------------------------------------------|--------------------|--------------------|-----------------------|------------------|----------|-----------------------------------|
| 5          |             | Red and yellow, stiff SANDY LEAN CLAY (CL)        |                                                           | SS -1              | 2.5-4.0            | 5-6-9 (15)            |                  |          |                                   |
|            |             | NO SAMPLE                                         |                                                           | SS -2              | 4.5-6.0            | 6-7-9 (16)            |                  |          |                                   |
|            |             | Very stiff, light gray to reddish yellow, mottled |                                                           | SS -3              | 7.5-9.0            | 7-9-12 (21)           |                  |          |                                   |
| 10         |             |                                                   |                                                           | SS -4              | 9.5-11.0           | 5-8-12 (20)           |                  |          |                                   |
| 15         |             |                                                   |                                                           | ST -5              | 14.5-16.5          |                       |                  |          |                                   |
| 20         |             |                                                   | Medium dense, red and tan, mottled, fine CLAYEY SAND (SC) | 174.7              | SS -6              | 19.5-21.0             | 4-7-11 (18)      |          | c' = 245 psf<br>φ = 31.6 deg.     |
| 25         |             |                                                   | Light brown                                               |                    | SS -7              | 24.5-26.0             | 5-7-10 (17)      |          | CONFIDENTIAL BUSINESS INFORMATION |

(Continued Next Page)



# LOG OF TEST BORING

**BORING AP2-5**  
PAGE 2 OF 2

SOUTHERN COMPANY SERVICES, INC.  
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Mitchell Ash Ponds  
LOCATION Albany, GA

GEOTECH ENGINEERING LOGS - ESEE DATABASE.GDT - 5/7/10 09:20 - T:\ESEE MAJOR PROJECTS\PROJECTS\MITCHELL STEAM PLANT\2010\ASH POND DIKE\LOGS.GPJ

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION                                                        | ELEVATION | SAMPLE TYPE NUMBER | SAMPLE DEPTH (ft.) | BLOW COUNTS (N VALUE) | RECOVERY % (RQD) | COMMENTS                       |
|------------|-------------|-----------------------------------------------------------------------------|-----------|--------------------|--------------------|-----------------------|------------------|--------------------------------|
|            |             | Medium dense, red and tan, mottled, fine CLAYEY SAND (SC) (Cont')           |           |                    |                    |                       |                  |                                |
| 30         |             | Very stiff, light brown, SANDY LEAN CLAY (CL)                               | 164.7     | SS -8              | 29.5-31.0          | 4-6-9 (15)            |                  |                                |
| 35         |             | Medium dense, gray, fine CLAYEY SAND (SC)                                   | 159.7     | SS -9              | 34.5-36.0          | 4-7-11 (18)           |                  |                                |
| 40         |             | Gray, SANDY FAT CLAY (CH)                                                   | 154.7     | ST -10             | 39.5-41.5          |                       |                  | c' = 260 psf<br>φ' = 23.6 deg. |
| 45         |             | Very stiff, dark red, yellow, and brown, with weathered limestone fragments |           | SS -11             | 44.5-46.0          | 5-7-10 (17)           |                  |                                |
| 50         |             | Medium dense, light gray to yellow, fine CLAYEY SAND (SC)                   | 144.7     | SS -12             | 49.5-51.0          | 4-5-9 (14)            |                  |                                |
| 55         |             | Stiff, grey FAT CLAY (CH) transitioning to white, sandy WEATHERED LIMESTONE | 139.7     | SS -13             | 54.5-56.0          | 5-6-5 (11)            |                  |                                |
|            |             | Bottom of borehole at 56.0 feet.                                            |           |                    |                    |                       |                  |                                |

**CONFIDENTIAL BUSINESS INFORMATION**



# LOG OF TEST BORING

**BORING AP2-6**  
PAGE 1 OF 2

SOUTHERN COMPANY SERVICES, INC.  
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Mitchell Ash Ponds

LOCATION Albany, GA

DATE STARTED 3/17/2010 COMPLETED 3/17/2010 SURF. ELEV. 170.2 COORDINATES: N 521,454.45 E 2,305,828.28

CONTRACTOR SCS Field Services EQUIPMENT CME-550X METHOD Hollow Stem Auger

DRILLED BY S. Denty LOGGED BY J. Jordan CHECKED BY J. Jordan ANGLE \_\_\_\_\_ BEARING \_\_\_\_\_

BORING DEPTH 41 ft. GROUND WATER DEPTH: DURING \_\_\_\_\_ COMP. \_\_\_\_\_ DELAYED \_\_\_\_\_

NOTES Toe - South Side

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION                      | ELEVATION                                                | SAMPLE TYPE NUMBER | SAMPLE DEPTH (ft.) | BLOW COUNTS (N VALUE) | RECOVERY % (RQD) | COMMENTS                                                                  |  |
|------------|-------------|-------------------------------------------|----------------------------------------------------------|--------------------|--------------------|-----------------------|------------------|---------------------------------------------------------------------------|--|
| 5          |             | Soft, reddish brown, SANDY LEAN CLAY (CL) |                                                          | SS -1              | 2.5-4.0            | 5-2-2 (4)             |                  | c' = 200 psf<br>φ = 30.7 deg. (MC = 16.7%;<br>LL = 43; PI=24; FC = 51.1%) |  |
|            |             | Firm, layered, light orange to brown      |                                                          | SS -2              | 4.5-6.0            | 2-2-4 (6)             |                  |                                                                           |  |
|            |             | Gray with red and brown mottling          |                                                          | SS -3              | 7.5-9.0            | 4-6-8 (14)            |                  |                                                                           |  |
| 10         |             |                                           |                                                          |                    | ST -4              | 9.5-11.5              |                  |                                                                           |  |
| 15         |             |                                           |                                                          |                    | SS -5              | 14.5-16.0             | 4-5-5 (10)       |                                                                           |  |
| 20         |             |                                           | Gray, red and brown, medium dense, fine CLAYEY SAND (SC) | 150.7              | SS -6              | 19.5-21.0             | 5-6-7 (13)       |                                                                           |  |
| 25         |             |                                           | Medium dense, wet, fine SAND (SP)                        | 145.7              | SS -7              | 24.5-26.0             | 6-6-9 (15)       |                                                                           |  |

**CONFIDENTIAL BUSINESS INFORMATION**

(Continued Next Page)

GEO TECH ENGINEERING LOGS - ESEE DATABASE.GDT - 5/7/10 09:20 - T:\ESEE MAJOR PROJECTS\PROJECTS\MITCHELL STEAM PLANT\2010\ASH POND DIKE\LOGS.GPJ



# LOG OF TEST BORING

**BORING AP2-6**  
PAGE 2 OF 2

SOUTHERN COMPANY SERVICES, INC.  
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

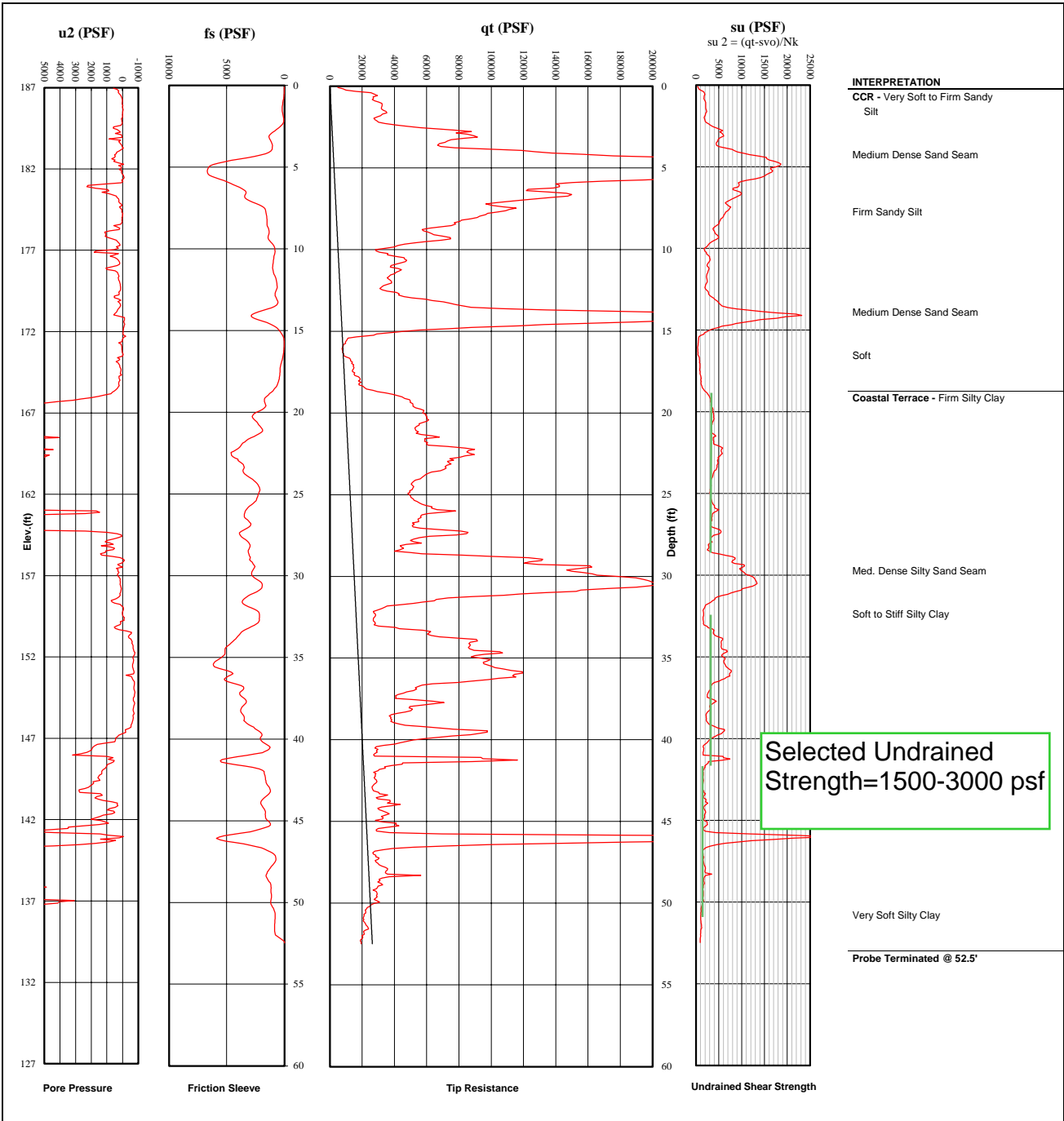
PROJECT Plant Mitchell Ash Ponds

LOCATION Albany, GA

GEOTECH ENGINEERING LOGS - ESEE DATABASE.GDT - 5/7/10 09:20 - T:\ESEE MAJOR PROJECTS\PROJECTS\MITCHELL STEAM PLANT\2010\ASH POND DIKE\LOGS.GPJ

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION                                                    | ELEVATION | SAMPLE TYPE NUMBER | SAMPLE DEPTH (ft.) | BLOW COUNTS (N VALUE) | RECOVERY % (RQD) | COMMENTS |
|------------|-------------|-------------------------------------------------------------------------|-----------|--------------------|--------------------|-----------------------|------------------|----------|
| 30         |             | Medium dense, wet, fine SAND (SP) (Cont')<br><br>Brown, increasing clay |           | SS-8               | 29.5-31.0          | 2-1-2 (3)             |                  |          |
| 35         |             | Soft, grey to tan, SANDY FAT CLAY (CH)                                  | 135.7     | SS-9               | 34.5-36.0          | WH-WH-3 (3)           |                  |          |
| 40         |             | White to yellow, sandy WEATHERED ROCK, effervescent in HCl              | 130.7     | SS-10              | 39.5-41.0          | WH-4-7 (11)           |                  |          |
|            |             | Bottom of borehole at 41.0 feet.                                        |           |                    |                    |                       |                  |          |
| 45         |             |                                                                         |           |                    |                    |                       |                  |          |
| 50         |             |                                                                         |           |                    |                    |                       |                  |          |
| 55         |             |                                                                         |           |                    |                    |                       |                  |          |

**CONFIDENTIAL BUSINESS INFORMATION**

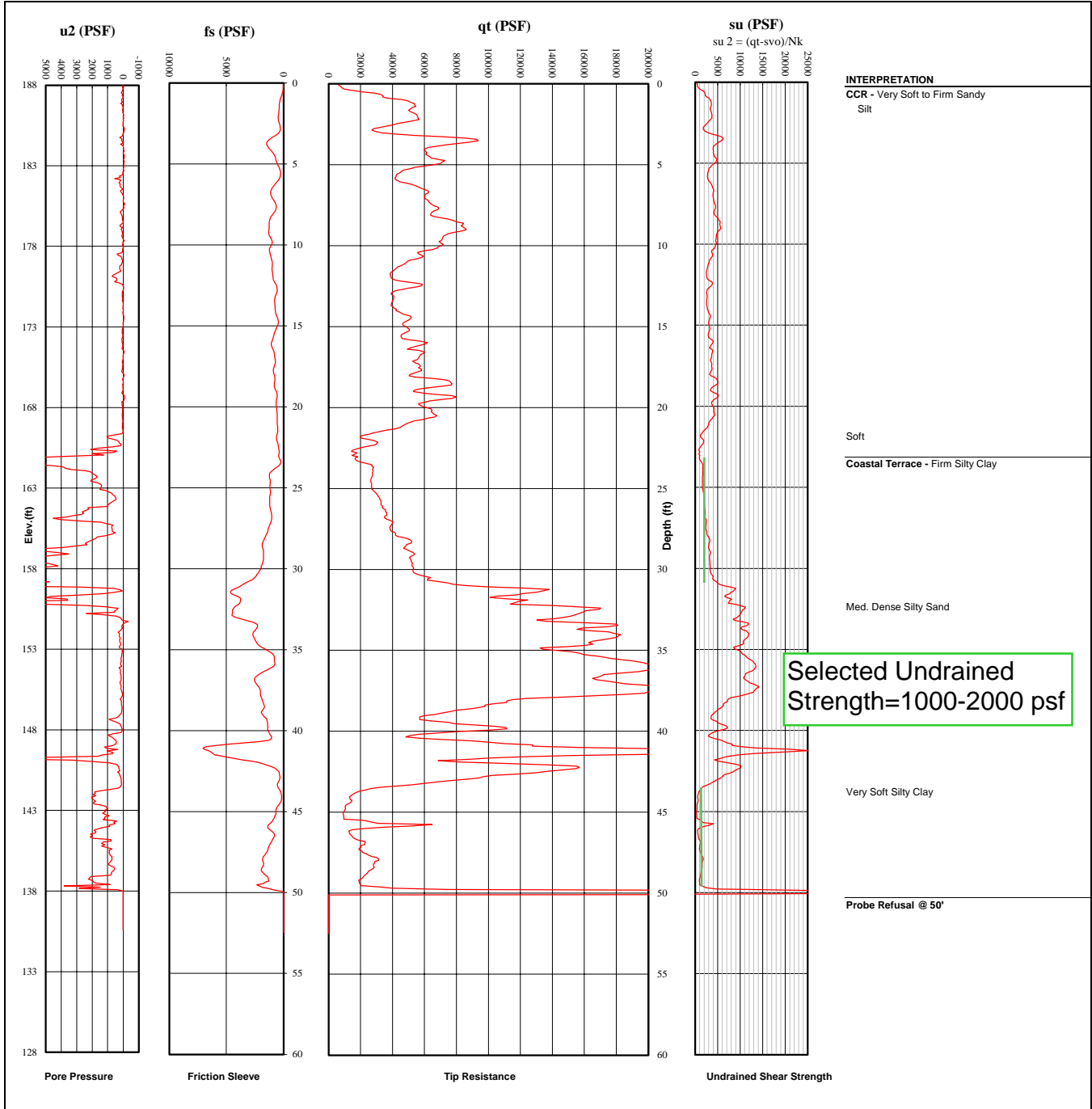


**wood.**

Wood Environment and Infrastructure Solutions, Inc.  
2677 Buford Highway, Atlanta, Georgia 30324  
woodplc.com

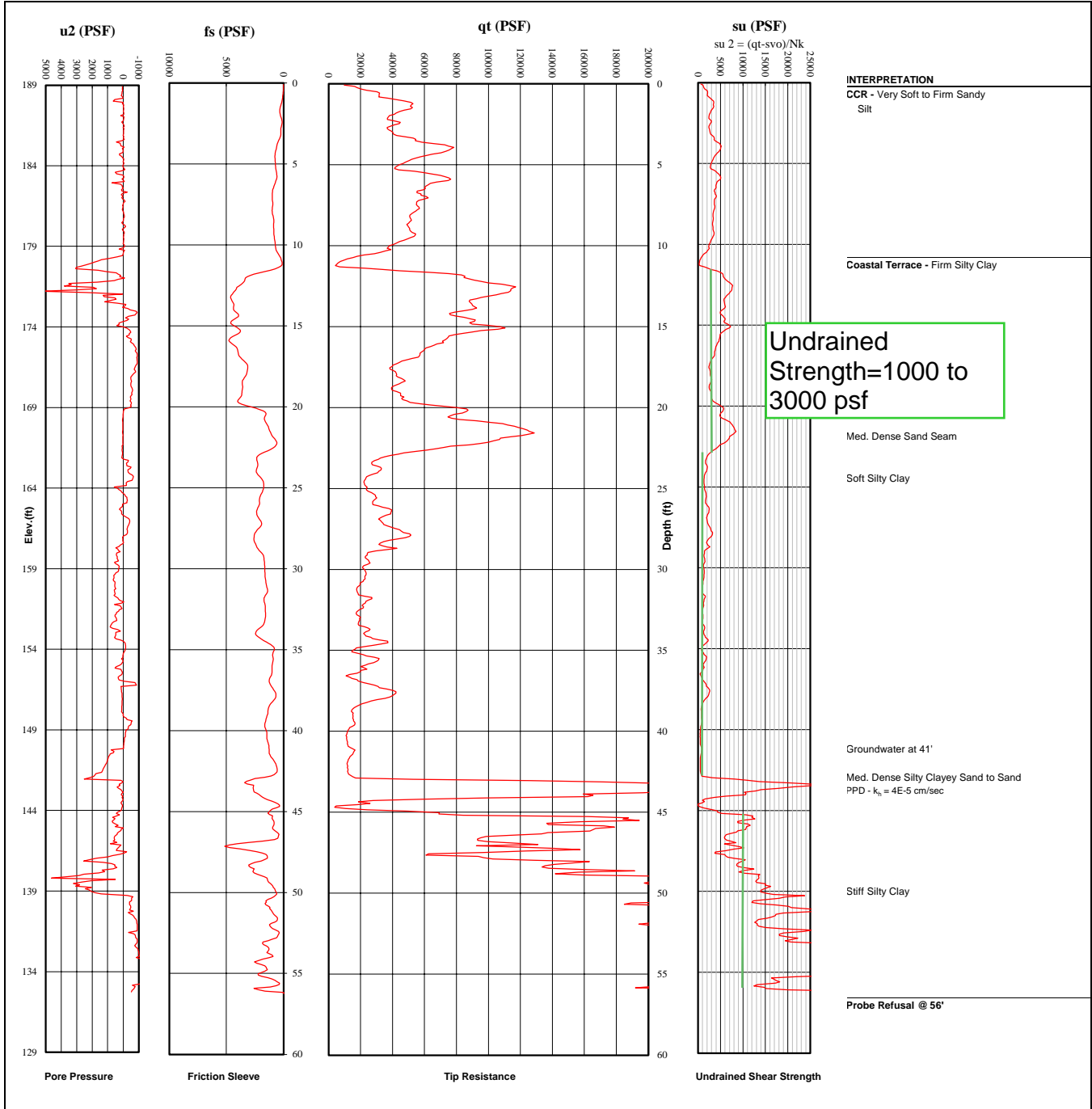
PROJECT:  
PROJ. NO:  
PROBE ID:  
DATE:  
NORTH:  
EAST:  
SURFACE:

Plant Mitchell Ash Pond Permit  
6121-17-0635  
CPT-01  
2017-11-08  
524384  
2306928  
187.2



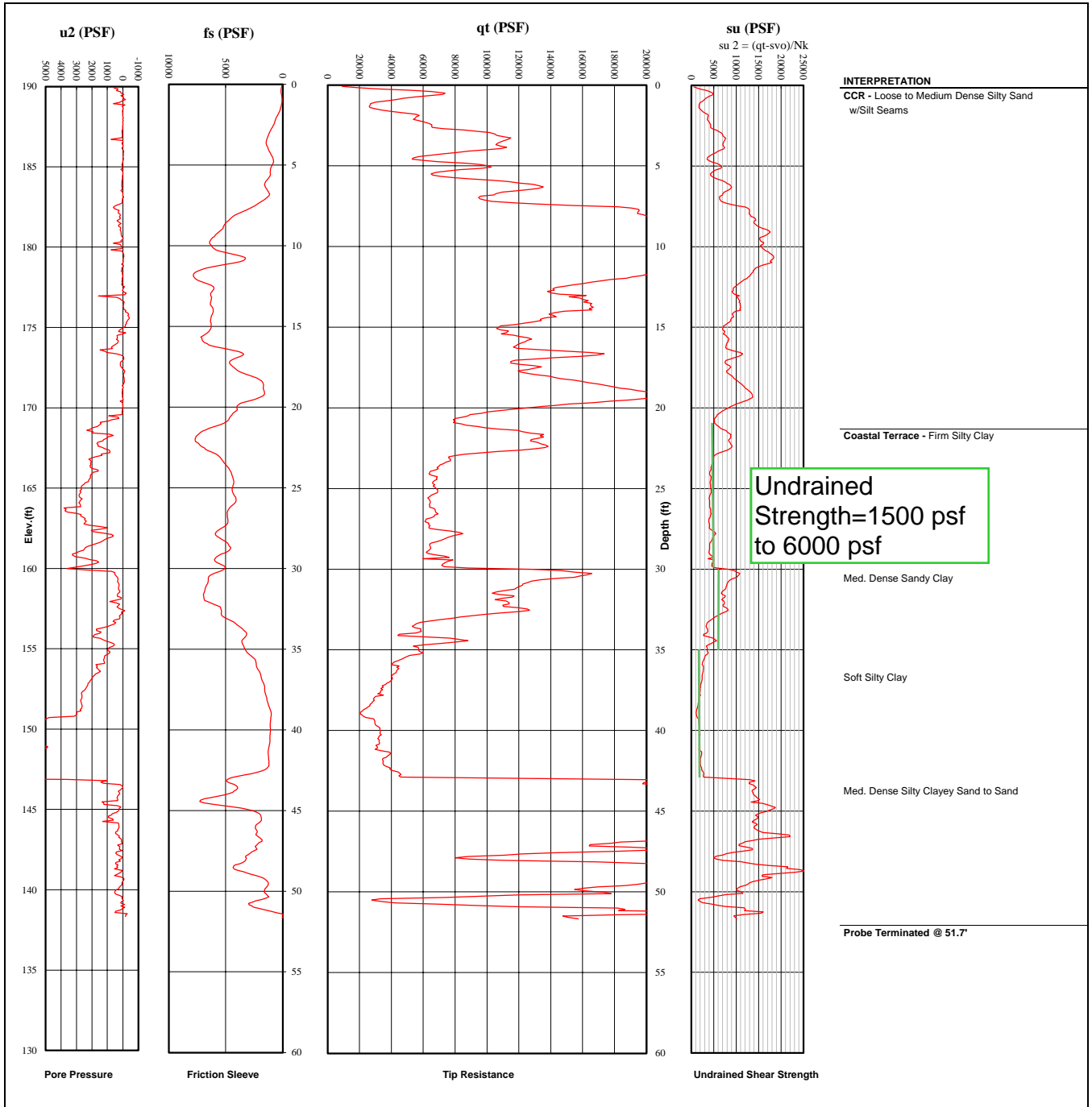
Wood Environment and Infrastructure Solutions, Inc.  
 2677 Buford Highway, Atlanta, Georgia 30324  
 woodplc.com

PROJECT: Plant Mitchell Ash Pond Permit  
 PROJ. NO: 6121-17-0635  
 PROBE ID: CPT-02  
 DATE: 11/7/17  
 NORTH: 524125  
 EAST: 2306451  
 SURFACE: 188.4



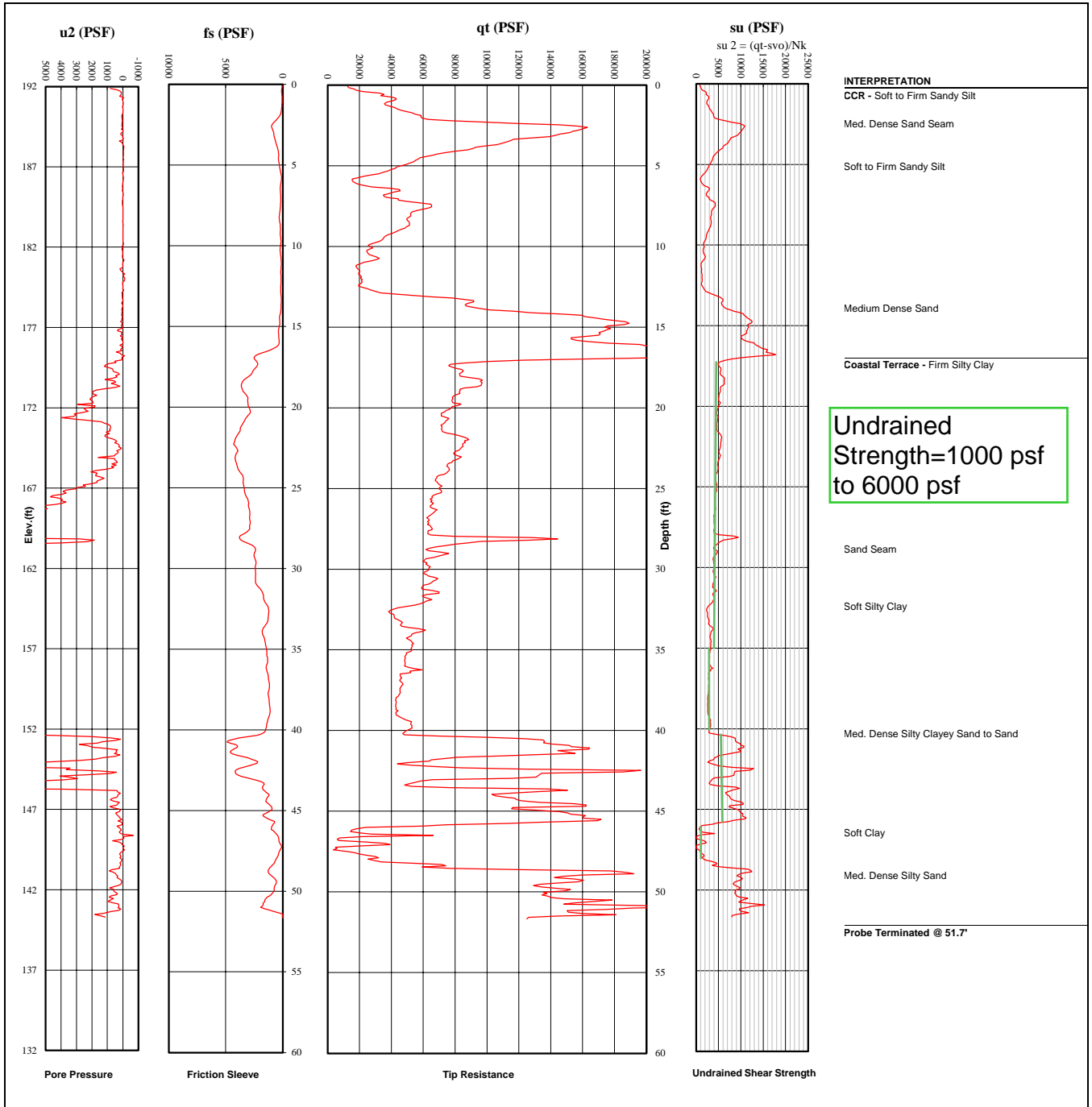
Wood Environment and Infrastructure Solutions, Inc.  
 2677 Buford Highway, Atlanta, Georgia 30324  
 woodplc.com

PROJECT: Plant Mitchell Ash Pond Permit  
 PROJ. NO: 6121-17-0635  
 PROBE ID: CPT-03  
 DATE: 2017-11-07  
 NORTH: 523781  
 EAST: 2307415  
 SURFACE: 188.6



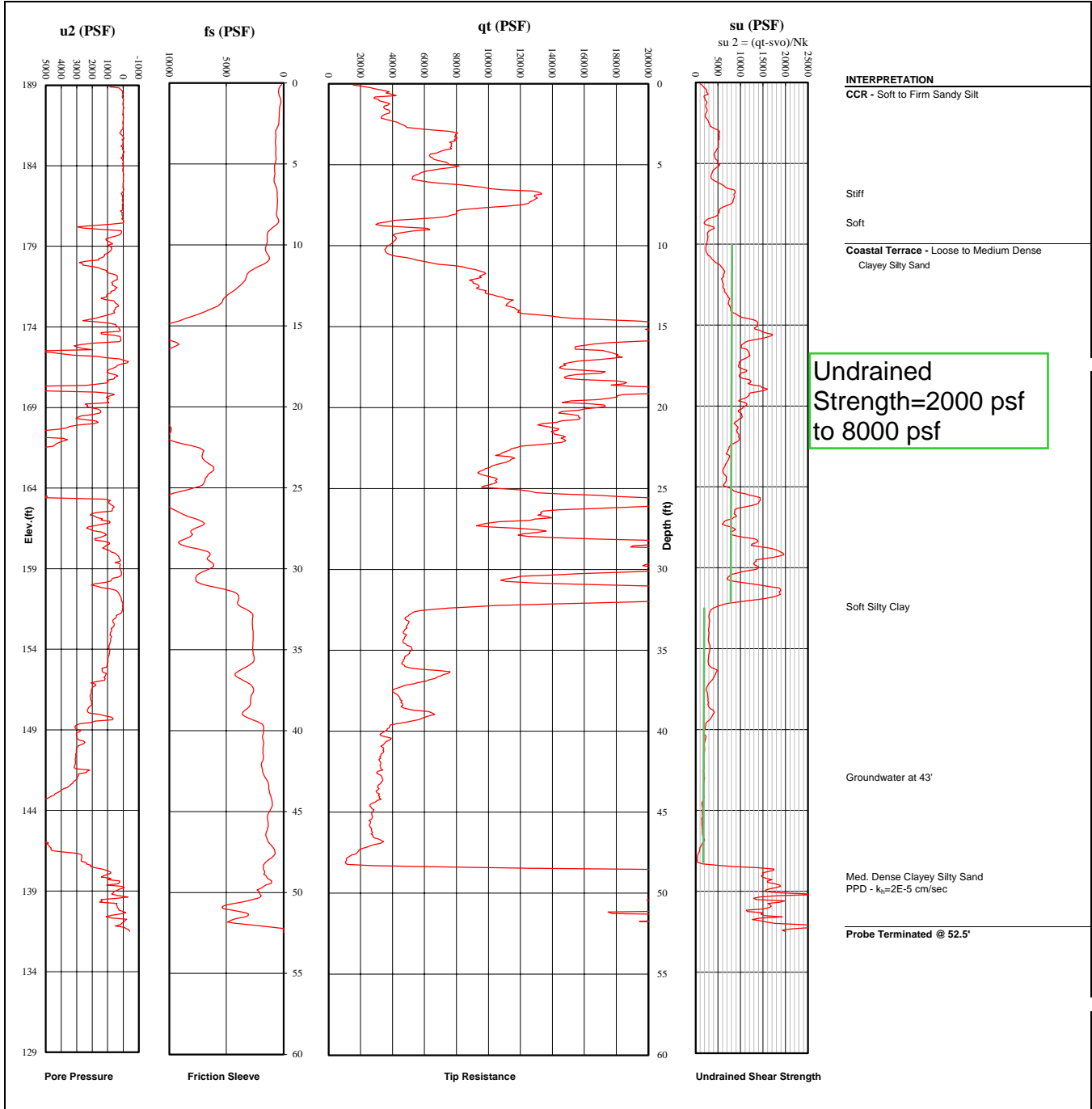
Wood Environment and Infrastructure Solutions, Inc.  
2677 Buford Highway, Atlanta, Georgia 30324  
woodplc.com

PROJECT: Plant Mitchell Ash Pond Permit  
PROJ. NO: 6121-17-0635  
PROBE ID: CPT-04  
DATE: 11/8/17  
NORTH: 523117  
EAST: 2306880  
SURFACE: 190.4



Wood Environment and Infrastructure Solutions, Inc.  
2677 Buford Highway, Atlanta, Georgia 30324  
woodplc.com

PROJECT: Plant Mitchell Ash Pond Permit  
 PROJ. NO: 6121-17-0635  
 PROBE ID: CPT-05  
 DATE: 2017-11-08  
 NORTH: 522700  
 EAST: 2307083  
 SURFACE: 192.3



Wood Environment and Infrastructure Solutions, Inc.  
2677 Buford Highway, Atlanta, Georgia 30324  
woodplc.com

PROJECT: Plant Mitchell Ash Pond Permit  
PROJ. NO: 6121-17-0635  
PROBE ID: CPT-10  
DATE: 11/8/17  
NORTH: 523864  
EAST: 2306956  
SURFACE: 188.7

**Table 3**  
**Summary of Groundwater Elevations**  
**Georgia Power Company**  
**Plant Mitchell - 1365.11|3.04|0.2**  
**Dougherty County, US-GA**

| Overburden/Bedrock | Hydraulic Location | AP-1 Wells | Well ID | Top of Casing Elevation (feet) | August 2016           |                              | December 2016         |                              | March 2017            |                              | July 2017             |                              | October 2017          |                              |
|--------------------|--------------------|------------|---------|--------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|
|                    |                    |            |         |                                | Depth to Water (feet) | Groundwater Elevation (feet) | Depth to Water (feet) | Groundwater Elevation (feet) | Depth to Water (feet) | Groundwater Elevation (feet) | Depth to Water (feet) | Groundwater Elevation (feet) | Depth to Water (feet) | Groundwater Elevation (feet) |
| Overburden         | Downgradient       | AP-1       | MW-101  | 170.93                         |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Downgradient       | AP-1       | MW-102  | 170.93                         | 34.46                 | 136.47                       | 31.84                 | 139.09                       | 30.31                 | 140.62                       | 30.56                 | 140.37                       | 33.38                 | 137.55                       |
| Bedrock            | Downgradient       |            | MW-105  | 187.52                         | 49.88                 | 137.64                       | 48.35                 | 139.17                       | 45.35                 | 142.17                       | 46.59                 | 140.93                       | 48.62                 | 138.90                       |
| Bedrock            | Downgradient       |            | MW-108  | 185.47                         | 48.76                 | 136.71                       | 47.27                 | 138.20                       | 44.72                 | 140.75                       | 45.38                 | 140.09                       | 47.57                 | 137.90                       |
| Bedrock            | Downgradient       |            | MW-111  | 168.06                         | 32.63                 | 135.43                       | 30.07                 | 137.99                       | 28.58                 | 139.48                       | 29.13                 | 138.93                       | 30.63                 | 137.43                       |
| Bedrock            | Downgradient       |            | MW-113  | 174.61                         | 38.33                 | 136.28                       | 35.71                 | 138.90                       | 33.97                 | 140.64                       | 34.72                 | 139.89                       | 37.03                 | 137.58                       |
| Bedrock            | Downgradient       |            | MW-115  | 169.05                         | 33.22                 | 135.83                       | 30.65                 | 138.40                       | 28.87                 | 140.18                       | 29.62                 | 139.43                       | 31.27                 | 137.78                       |
| Bedrock            | Downgradient       | AP-1       | MW-116  | 171.69                         | 35.87                 | 135.82                       | 33.16                 | 138.53                       | 31.80                 | 139.89                       | 31.96                 | 139.73                       | 33.78                 | 137.91                       |
| Overburden         | Downgradient       |            | MW-119  | 194.49                         |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Downgradient       |            | MW-120  | 193.79                         |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Downgradient       | AP-1       | PZ-01R  | 191.87                         |                       |                              | 52.95                 | 138.92                       | 51.27                 | 140.60                       | 51.85                 | 140.02                       | 53.62                 | 138.25                       |
| Bedrock            | Downgradient       |            | PZ-02R  | 191.66                         |                       |                              | 52.61                 | 139.05                       | 50.55                 | 141.11                       | 51.24                 | 140.42                       | 53.24                 | 138.42                       |
| Bedrock            | Downgradient       |            | PZ-03R  | 192.35                         |                       |                              | 53.74                 | 138.61                       | 51.88                 | 140.47                       | 52.26                 | 140.09                       | 54.34                 | 138.01                       |
| Bedrock            | Upgradient         |            | PZ-1D   | 196.44                         | 55.93                 | 140.51                       | 52.68                 | 143.76                       | 50.83                 | 145.61                       | 52.86                 | 143.58                       | 55.09                 | 141.35                       |
| Overburden         | Upgradient         |            | PZ-1S   | 196.52                         |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Upgradient         |            | PZ-2D   | 178.51                         | 39.60                 | 138.91                       | 35.30                 | 143.21                       | 34.45                 | 144.06                       | 36.07                 | 142.44                       | 38.28                 | 140.23                       |
| Overburden         | Upgradient         |            | PZ-2S   | 178.61                         | 39.64                 | 138.97                       | 35.31                 | 143.30                       | 34.47                 | 144.14                       | 36.12                 | 142.49                       | 38.35                 | 140.26                       |
| Bedrock            | Upgradient         |            | PZ-3D   | 190.98                         | 52.44                 | 138.54                       | 49.69                 | 141.29                       | 47.52                 | 143.46                       | 48.92                 | 142.06                       | 50.95                 | 140.03                       |
| Overburden         | Upgradient         |            | PZ-3S   | 191.12                         |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Downgradient       | AP-1       | PZ-4D   | 191.10                         | 52.83                 | 138.27                       | 52.18                 | 138.92                       | 48.34                 | 142.76                       | 49.86                 | 141.24                       | 52.04                 | 139.06                       |
| Overburden         | Downgradient       | AP-1       | PZ-4S   | 191.20                         |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Downgradient       |            | PZ-5D   | 193.82                         | 54.94                 | 138.88                       | 55.49                 | 138.33                       | 50.65                 | 143.17                       | 52.76                 | 141.06                       | 54.76                 | 139.06                       |
| Overburden         | Downgradient       |            | PZ-6S   | 189.47                         | 27.64                 | 161.83                       | 13.85                 | 175.62                       | 15.77                 | 173.70                       | 24.45                 | 165.02                       | 31.76                 | 157.71                       |
| Bedrock            | Downgradient       |            | PZ-7D   | 173.08                         | 37.26                 | 135.82                       | 34.33                 | 138.75                       | 33.16                 | 139.92                       | 33.11                 | 139.97                       | 35.13                 | 137.95                       |
| Overburden         | Downgradient       |            | PZ-7S   | 173.10                         |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Downgradient       |            | PZ-8D   | 170.35                         | 34.94                 | 135.41                       | 32.22                 | 138.13                       | 30.84                 | 139.51                       | 31.47                 | 138.88                       | 33.01                 | 137.34                       |
| Overburden         | Downgradient       |            | PZ-8S   | 170.78                         |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Downgradient       |            | PZ-9D   | 166.16                         | 30.77                 | 135.39                       | 28.09                 | 138.07                       | 26.67                 | 139.49                       | 27.10                 | 139.06                       | 28.65                 | 137.51                       |
| Overburden         | Downgradient       |            | PZ-9S   | 166.02                         |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Downgradient       |            | PZ-10S  | 175.63                         | 39.74                 | 135.89                       | 36.79                 | 138.84                       | 35.44                 | 140.19                       | 35.86                 | 139.77                       | 38.04                 | 137.59                       |
| Bedrock            | Downgradient       | AP-1       | PZ-11S  | 191.69                         | 56.01                 | 135.68                       | 53.18                 | 138.51                       | 52.69                 | 139.00                       | 51.99                 | 139.70                       | 53.90                 | 137.79                       |
| Bedrock            | Downgradient       | AP-1       | PZ-12S  | 173.92                         | 38.23                 | 135.69                       | 35.60                 | 138.32                       | 34.04                 | 139.88                       | 34.53                 | 139.39                       | 36.24                 | 137.68                       |
| Overburden         | Downgradient       | AP-1       | PZ-13S  | 173.22                         |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Downgradient       |            | PZ-14   | 183.46                         | 46.98                 | 136.48                       | 45.36                 | 138.10                       | 42.71                 | 140.75                       | 43.53                 | 139.93                       | 45.70                 | 137.76                       |
| Bedrock            | Downgradient       |            | PZ-15   | 170.37                         | 34.92                 | 135.45                       | 32.35                 | 138.02                       | 30.75                 | 139.62                       | 31.27                 | 139.10                       | 32.74                 | 137.63                       |
| Bedrock            | Downgradient       |            | PZ-16   | 173.92                         | 38.21                 | 135.71                       | 35.10                 | 138.82                       | 33.86                 | 140.06                       | 34.25                 | 139.67                       | 36.17                 | 137.75                       |
| Bedrock            | Downgradient       |            | PZ-17   | 172.91                         | 36.65                 | 136.26                       | 34.10                 | 138.81                       | 32.45                 | 140.46                       | 32.86                 | 140.05                       | 34.86                 | 138.05                       |
| Bedrock            | Downgradient       | AP-1       | PZ-18   | 170.11                         | 34.06                 | 136.05                       | 31.48                 | 138.63                       | 29.80                 | 140.31                       | 30.25                 | 139.86                       | 32.02                 | 138.09                       |
| Bedrock            | Downgradient       | AP-1       | PZ-19   | 172.05                         | 35.95                 | 136.10                       | 33.21                 | 138.84                       | 31.75                 | 140.30                       | 31.98                 | 140.07                       | 34.02                 | 138.03                       |
| Bedrock            | Downgradient       | AP-1       | PZ-20   | 173.44                         | 37.20                 | 136.24                       | 34.66                 | 138.78                       | 33.16                 | 140.28                       | 33.29                 | 140.15                       | 35.24                 | 138.20                       |
| Bedrock            | Downgradient       | AP-1       | PZ-21   | 179.84                         | 42.67                 | 137.17                       | 40.24                 | 139.60                       | 38.11                 | 141.73                       | 38.96                 | 140.88                       | 40.89                 | 138.95                       |
| Bedrock            | Downgradient       | AP-1       | PZ-22   | 187.69                         | 49.84                 | 137.85                       | 47.74                 | 139.95                       | 45.02                 | 142.67                       | 46.54                 | 141.15                       | 48.40                 | 139.29                       |
| Bedrock            | Downgradient       | AP-1       | PZ-23   | 191.62                         | 53.49                 | 138.13                       | 52.97                 | 138.65                       | 49.07                 | 142.55                       | 50.76                 | 140.86                       | 52.84                 | 138.78                       |
| Bedrock            | Downgradient       | AP-1       | PZ-23A  | 191.85                         |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Downgradient       | AP-1       | PZ-24   | 194.91                         | 57.70                 | 137.21                       | 56.68                 | 138.23                       | 53.41                 | 141.50                       | 54.65                 | 140.26                       | 56.78                 | 138.13                       |
| Bedrock            | Downgradient       | AP-1       | PZ-24A  | 194.97                         |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Downgradient       | AP-1       | PZ-25   | 171.14                         | 34.66                 | 136.48                       | 32.02                 | 139.12                       | 30.51                 | 140.63                       | 30.71                 | 140.43                       | 32.60                 | 138.54                       |
| Bedrock            | Downgradient       |            | PZ-26   | 166.70                         |                       |                              | 28.72                 | 137.98                       | 27.22                 | 139.48                       | 27.85                 | 138.85                       | 29.36                 | 137.34                       |
| Bedrock            | Downgradient       |            | PZ-27   | 164.58                         |                       |                              | 25.78                 | 138.80                       | 24.58                 | 140.00                       | 24.98                 | 139.60                       | 26.96                 | 137.62                       |
| Bedrock            | Downgradient       | AP-1       | PZ-28   | 165.96                         |                       |                              | 26.92                 | 139.04                       | 25.76                 | 140.20                       | 26.18                 | 139.78                       | 28.26                 | 137.70                       |
| Bedrock            | Downgradient       | AP-1       | PZ-29   | 173.18                         |                       |                              | 34.86                 | 138.32                       | 33.30                 | 139.88                       | 33.83                 | 139.35                       | 35.38                 | 137.80                       |
| Bedrock            | Upgradient         |            | PZ-31   | 182.96                         |                       |                              | 39.82                 | 143.14                       | 37.01                 | 145.95                       | 39.50                 | 143.46                       | 41.69                 | 141.27                       |
| Bedrock            | Upgradient         |            | PZ-32   | 180.75                         |                       |                              | 36.98                 | 143.77                       | 36.44                 | 144.31                       | 38.13                 | 142.62                       | 40.39                 | 140.36                       |
| Bedrock            | Downgradient       |            | PZ-33   | 189.61                         |                       |                              | 50.80                 | 138.81                       | 48.40                 | 141.21                       | 49.22                 | 140.39                       | 51.19                 | 138.42                       |
| Bedrock            | Downgradient       | AP-1       | PZ-57   | 169.35                         |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |

**Table 3**  
**Summary of Groundwater Elevations**  
**Georgia Power Company**  
**Plant Mitchell - 1365.11|3.04|0.2**  
**Dougherty County, US-GA**

| Overburden/Bedrock | Hydraulic Location | AP-1 Wells | Well ID | February 2018         |                              | July 2018             |                              | September 2018        |                              | March 2019            |                              | August 2019           |                              | October 2019          |                              |
|--------------------|--------------------|------------|---------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|
|                    |                    |            |         | Depth to Water (feet) | Groundwater Elevation (feet) | Depth to Water (feet) | Groundwater Elevation (feet) | Depth to Water (feet) | Groundwater Elevation (feet) | Depth to Water (feet) | Groundwater Elevation (feet) | Depth to Water (feet) | Groundwater Elevation (feet) | Depth to Water (feet) | Groundwater Elevation (feet) |
| Overburden         | Downgradient       | AP-1       | MW-101  |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Downgradient       | AP-1       | MW-102  | 27.34                 | 143.59                       | 31.56                 | 139.37                       | 32.58                 | 138.35                       | 28.96                 | 141.97                       | 32.65                 | 138.28                       | 34.38                 | 136.55                       |
| Bedrock            | Downgradient       |            | MW-105  | 44.54                 | 142.98                       | 47.40                 | 140.12                       | 47.60                 | 139.92                       | 42.93                 | 144.59                       | 48.19                 | 139.33                       |                       |                              |
| Bedrock            | Downgradient       |            | MW-108  | 43.16                 | 142.31                       | 46.17                 | 139.30                       | 46.70                 | 138.77                       | 42.86                 | 142.61                       | 47.62                 | 137.85                       | 48.69                 | 136.78                       |
| Bedrock            | Downgradient       |            | MW-111  | 26.17                 | 141.89                       | 29.62                 | 138.44                       | 31.26                 | 136.80                       | 27.22                 | 140.84                       | 30.63                 | 137.43                       | 32.60                 | 135.46                       |
| Bedrock            | Downgradient       |            | MW-113  | 31.06                 | 143.55                       | 35.87                 | 138.74                       | 36.42                 | 138.19                       | 31.40                 | 143.21                       | 37.42                 | 137.19                       | 38.33                 | 136.28                       |
| Bedrock            | Downgradient       |            | MW-115  | 26.62                 | 142.43                       | 30.15                 | 138.90                       | 31.67                 | 137.38                       | 27.51                 | 141.54                       | 31.15                 | 137.90                       | 33.11                 | 135.94                       |
| Bedrock            | Downgradient       | AP-1       | MW-116  | 29.19                 | 142.50                       | 32.98                 | 138.71                       | 34.14                 | 137.55                       | 30.25                 | 141.44                       | 34.21                 | 137.48                       | 35.72                 | 135.97                       |
| Overburden         | Downgradient       |            | MW-119  |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Downgradient       |            | MW-120  |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Downgradient       | AP-1       | PZ-01R  | 48.98                 | 142.89                       | 52.86                 | 139.01                       | 53.79                 | 138.08                       | 49.73                 | 142.14                       | 53.39                 | 138.48                       | 55.54                 | 136.33                       |
| Bedrock            | Downgradient       |            | PZ-02R  | 48.89                 | 142.77                       | 52.34                 | 139.32                       | 53.30                 | 138.36                       | 48.83                 | 142.83                       | 53.34                 | 138.32                       | 54.78                 | 136.88                       |
| Bedrock            | Downgradient       |            | PZ-03R  | 49.32                 | 143.03                       | 53.57                 | 138.78                       | 54.55                 | 137.80                       | 50.61                 | 141.74                       | 54.71                 | 137.64                       | 56.00                 | 136.35                       |
| Bedrock            | Upgradient         |            | PZ-1D   | 50.39                 | 146.05                       | 53.39                 | 143.05                       | 52.09                 | 144.35                       | 48.29                 | 148.15                       | 53.98                 | 142.46                       | 55.95                 | 140.49                       |
| Overburden         | Upgradient         |            | PZ-1S   |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Upgradient         |            | PZ-2D   | 32.59                 | 145.92                       | 36.48                 | 142.03                       | 35.81                 | 142.70                       | 31.68                 | 146.83                       | 37.15                 | 141.36                       | 39.42                 | 139.09                       |
| Overburden         | Upgradient         |            | PZ-2S   | 32.65                 | 145.96                       | 36.56                 | 142.05                       | 35.85                 | 142.76                       | 31.72                 | 146.89                       | 37.25                 | 141.36                       | 39.45                 | 139.16                       |
| Bedrock            | Upgradient         |            | PZ-3D   | 45.69                 | 145.29                       | 49.46                 | 141.52                       | 48.98                 | 142.00                       | 44.90                 | 146.08                       | 50.27                 | 140.71                       | 52.24                 | 138.74                       |
| Overburden         | Upgradient         |            | PZ-3S   |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Downgradient       | AP-1       | PZ-4D   | 49.11                 | 141.99                       | 50.46                 | 140.64                       | 50.51                 | 140.59                       | 45.75                 | 145.35                       | 51.16                 | 139.94                       | 52.49                 | 138.61                       |
| Overburden         | Downgradient       | AP-1       | PZ-4S   |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Downgradient       |            | PZ-5D   | 53.32                 | 140.50                       | 53.01                 | 140.81                       | 52.72                 | 141.10                       | 47.83                 | 145.99                       | 52.99                 | 140.83                       |                       |                              |
| Overburden         | Downgradient       |            | PZ-6S   | 17.41                 | 172.06                       | 21.92                 | 167.55                       | 16.43                 | 173.04                       | 15.23                 | 174.24                       | 20.23                 | 169.24                       | 24.87                 | 164.60                       |
| Bedrock            | Downgradient       |            | PZ-7D   | 30.00                 | 143.08                       | 33.61                 | 139.47                       | 35.33                 | 137.75                       | 31.53                 | 141.55                       | 35.34                 | 137.74                       | 37.15                 | 135.93                       |
| Overburden         | Downgradient       |            | PZ-7S   |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Downgradient       |            | PZ-8D   | 28.48                 | 141.87                       | 32.08                 | 138.27                       | 33.55                 | 136.80                       | 29.52                 | 140.83                       | 32.95                 | 137.40                       | 34.89                 | 135.46                       |
| Overburden         | Downgradient       |            | PZ-8S   |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Downgradient       |            | PZ-9D   | 23.90                 | 142.26                       | 27.78                 | 138.38                       | 28.98                 | 137.18                       | 25.36                 | 140.80                       | 28.86                 | 137.30                       | 30.66                 | 135.50                       |
| Overburden         | Downgradient       |            | PZ-9S   |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Downgradient       |            | PZ-10S  | 32.33                 | 143.30                       | 36.97                 | 138.66                       | 37.81                 | 137.82                       | 33.72                 | 141.91                       | 38.42                 | 137.21                       | 39.61                 | 136.02                       |
| Bedrock            | Downgradient       | AP-1       | PZ-11S  | 48.70                 | 142.99                       | 53.08                 | 138.61                       | 54.18                 | 137.51                       | 50.28                 | 141.41                       | 54.51                 | 137.18                       | 55.89                 | 135.80                       |
| Bedrock            | Downgradient       | AP-1       | PZ-12S  | 31.30                 | 142.62                       | 35.34                 | 138.58                       | 36.41                 | 137.51                       | 32.68                 | 141.24                       | 36.26                 | 137.66                       | 38.13                 | 135.79                       |
| Overburden         | Downgradient       | AP-1       | PZ-13S  |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Downgradient       |            | PZ-14   | 41.21                 | 142.25                       | 44.38                 | 139.08                       | 44.84                 | 138.62                       | 40.93                 | 142.53                       | 45.58                 | 137.88                       | 46.72                 | 136.74                       |
| Bedrock            | Downgradient       |            | PZ-15   | 28.38                 | 141.99                       | 31.69                 | 138.68                       | 33.44                 | 136.93                       | 29.54                 | 140.83                       | 32.88                 | 137.49                       | 34.87                 | 135.50                       |
| Bedrock            | Downgradient       |            | PZ-16   | 30.78                 | 143.14                       | 35.36                 | 138.56                       | 36.28                 | 137.64                       | 32.32                 | 141.60                       | 36.81                 | 137.11                       | 38.13                 | 135.79                       |
| Bedrock            | Downgradient       |            | PZ-17   | 29.62                 | 143.29                       | 33.80                 | 139.11                       | 34.82                 | 138.09                       | 30.50                 | 142.41                       | 34.82                 | 138.09                       | 36.65                 | 136.26                       |
| Bedrock            | Downgradient       | AP-1       | PZ-18   | 27.17                 | 142.94                       | 31.17                 | 138.94                       | 32.11                 | 138.00                       | 27.88                 | 142.23                       | 32.19                 | 137.92                       | 33.97                 | 136.14                       |
| Bedrock            | Downgradient       | AP-1       | PZ-19   | 28.82                 | 143.23                       | 33.24                 | 138.81                       | 34.22                 | 137.83                       | 30.11                 | 141.94                       | 34.52                 | 137.53                       | 35.91                 | 136.14                       |
| Bedrock            | Downgradient       | AP-1       | PZ-20   | 30.33                 | 143.11                       | 34.51                 | 138.93                       | 35.59                 | 137.85                       | 31.68                 | 141.76                       | 35.87                 | 137.57                       | 37.15                 | 136.29                       |
| Bedrock            | Downgradient       | AP-1       | PZ-21   | 35.82                 | 144.02                       | 39.81                 | 140.03                       | 40.40                 | 139.44                       | 36.10                 | 143.74                       | 41.04                 | 138.80                       | 42.61                 | 137.23                       |
| Bedrock            | Downgradient       | AP-1       | PZ-22   | 43.25                 | 144.44                       | 47.15                 | 140.54                       | 46.99                 | 140.70                       | 42.52                 | 145.17                       | 48.25                 | 139.44                       | 49.63                 | 138.06                       |
| Bedrock            | Downgradient       | AP-1       | PZ-23   | 50.07                 | 141.55                       | 51.33                 | 140.29                       | 51.50                 | 140.12                       | 46.32                 | 145.30                       | 52.84                 | 138.78                       |                       |                              |
| Bedrock            | Downgradient       | AP-1       | PZ-23A  |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Downgradient       | AP-1       | PZ-24   | 53.20                 | 141.71                       | 55.45                 | 139.46                       | 55.91                 | 139.00                       | 51.10                 | 143.81                       | 56.26                 | 138.65                       |                       |                              |
| Bedrock            | Downgradient       | AP-1       | PZ-24A  |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Downgradient       | AP-1       | PZ-25   | 27.51                 | 143.63                       | 31.81                 | 139.33                       | 32.80                 | 138.34                       | 29.19                 | 141.95                       | 32.89                 | 138.25                       | 34.66                 | 136.48                       |
| Bedrock            | Downgradient       |            | PZ-26   | 24.83                 | 141.87                       | 28.43                 | 138.27                       | 29.94                 | 136.76                       | 25.90                 | 140.80                       | 29.28                 | 137.42                       | 31.26                 | 135.44                       |
| Bedrock            | Downgradient       |            | PZ-27   | 21.82                 | 142.76                       | 26.10                 | 138.48                       | 27.16                 | 137.42                       | 23.34                 | 141.24                       | 27.47                 | 137.11                       | 28.83                 | 135.75                       |
| Bedrock            | Downgradient       | AP-1       | PZ-28   | 23.15                 | 142.81                       | 27.26                 | 138.70                       | 28.11                 | 137.85                       | 24.55                 | 141.41                       | 28.83                 | 137.13                       | 29.73                 | 136.23                       |
| Bedrock            | Downgradient       | AP-1       | PZ-29   | 30.60                 | 142.58                       | 34.63                 | 138.55                       | 35.61                 | 137.57                       | 32.02                 | 141.16                       | 35.44                 | 137.74                       | 37.41                 | 135.77                       |
| Bedrock            | Upgradient         |            | PZ-31   | 37.57                 | 145.39                       | 39.61                 | 143.35                       | 38.79                 | 144.17                       | 34.67                 | 148.29                       | 40.73                 | 142.23                       | 42.56                 | 140.40                       |
| Bedrock            | Upgradient         |            | PZ-32   | 34.66                 | 146.09                       | 38.83                 | 141.92                       | 37.61                 | 143.14                       | 33.72                 | 147.03                       | 39.64                 | 141.11                       | 41.57                 | 139.18                       |
| Bedrock            | Downgradient       |            | PZ-33   | 46.59                 | 143.02                       | 50.23                 | 139.38                       | 50.87                 | 138.74                       | 46.68                 | 142.93                       | 51.23                 | 138.38                       | 52.54                 | 137.07                       |
| Bedrock            | Downgradient       | AP-1       | PZ-57   |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |

**Table 3**  
**Summary of Groundwater Elevations**  
**Georgia Power Company**  
**Plant Mitchell - 1365.11|3.04|0.2**  
**Dougherty County, US-GA**

| Overburden/Bedrock | Hydraulic Location | AP-1 Wells | Well ID | March 2020            |                              | August 2020           |                              | October 2020          |                              | March 2021            |                              | September 2021        |                              | January 2022          |                              |
|--------------------|--------------------|------------|---------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|
|                    |                    |            |         | Depth to Water (feet) | Groundwater Elevation (feet) | Depth to Water (feet) | Groundwater Elevation (feet) | Depth to Water (feet) | Groundwater Elevation (feet) | Depth to Water (feet) | Groundwater Elevation (feet) | Depth to Water (feet) | Groundwater Elevation (feet) | Depth to Water (feet) | Groundwater Elevation (feet) |
| Overburden         | Downgradient       | AP-1       | MW-101  |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Downgradient       | AP-1       | MW-102  | 22.37                 | 148.56                       | 30.31                 | 140.62                       | 29.50                 | 141.43                       | 24.54                 | 146.39                       | 31.61                 | 139.32                       | 26.95                 | 143.98                       |
| Bedrock            | Downgradient       |            | MW-105  |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Downgradient       |            | MW-108  | 37.71                 | 147.76                       | 46.35                 | 139.12                       | 43.91                 | 141.56                       | 38.71                 | 146.76                       | 45.76                 | 139.71                       | 41.28                 | 144.19                       |
| Bedrock            | Downgradient       |            | MW-111  | 22.95                 | 145.11                       | 28.23                 | 139.83                       | 28.18                 | 139.88                       | 23.64                 | 144.42                       | 30.15                 | 137.91                       | 25.54                 | 142.52                       |
| Bedrock            | Downgradient       |            | MW-113  | 22.65                 | 151.96                       | 35.66                 | 138.95                       | 33.37                 | 141.24                       | 27.43                 | 147.18                       | 34.40                 | 140.21                       | 30.15                 | 144.46                       |
| Bedrock            | Downgradient       |            | MW-115  | 22.70                 | 146.35                       | 28.92                 | 140.13                       | 31.28                 | 137.77                       | 24.05                 | 145.00                       | 30.46                 | 138.59                       |                       |                              |
| Bedrock            | Downgradient       | AP-1       | MW-116  | 24.17                 | 147.52                       | 32.13                 | 139.56                       | 30.87                 | 140.82                       | 26.10                 | 145.59                       | 32.85                 | 138.84                       | 28.33                 | 143.36                       |
| Overburden         | Downgradient       |            | MW-119  |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Downgradient       |            | MW-120  |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Downgradient       | AP-1       | PZ-01R  |                       |                              |                       |                              |                       |                              |                       |                              | 52.61                 | 139.26                       | 47.95                 | 143.92                       |
| Bedrock            | Downgradient       |            | PZ-02R  |                       |                              |                       |                              |                       |                              |                       |                              | 52.05                 | 139.61                       | 47.66                 | 144.00                       |
| Bedrock            | Downgradient       |            | PZ-03R  |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Upgradient         |            | PZ-1D   | 40.42                 | 156.02                       | 52.98                 | 143.46                       | 50.46                 | 145.98                       | 41.17                 | 155.27                       | 52.29                 | 144.15                       | 47.97                 | 148.47                       |
| Overburden         | Upgradient         |            | PZ-1S   |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Upgradient         |            | PZ-2D   | 22.64                 | 155.87                       | 36.10                 | 142.41                       | 33.85                 | 144.66                       | 23.50                 | 155.01                       | 35.67                 | 142.84                       | 31.17                 | 147.34                       |
| Overburden         | Upgradient         |            | PZ-2S   | 22.55                 | 156.06                       | 36.21                 | 142.40                       | 33.90                 | 144.71                       | 23.56                 | 155.05                       | 35.71                 | 142.90                       | 31.24                 | 147.37                       |
| Bedrock            | Upgradient         |            | PZ-3D   | 37.44                 | 153.54                       | 48.89                 | 142.09                       | 46.66                 | 144.32                       | 38.26                 | 152.72                       | 48.49                 | 142.49                       | 44.03                 | 146.95                       |
| Overburden         | Upgradient         |            | PZ-3S   |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Downgradient       | AP-1       | PZ-4D   | 39.61                 | 151.49                       | 50.41                 | 140.69                       | 47.47                 | 143.63                       | 41.34                 | 149.76                       | 49.17                 | 141.93                       | 46.07                 | 145.03                       |
| Overburden         | Downgradient       | AP-1       | PZ-4S   |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Downgradient       |            | PZ-5D   |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Overburden         | Downgradient       |            | PZ-6S   | 11.22                 | 178.25                       | 18.96                 | 170.51                       | 16.17                 | 173.30                       | 10.72                 | 178.75                       | 19.91                 | 169.56                       | 17.90                 | 171.57                       |
| Bedrock            | Downgradient       |            | PZ-7D   | 27.04                 | 146.04                       | 33.28                 | 139.80                       | 32.28                 | 140.80                       | 27.39                 | 145.69                       | 34.15                 | 138.93                       | 29.63                 | 143.45                       |
| Overburden         | Downgradient       |            | PZ-7S   |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Downgradient       |            | PZ-8D   | 25.03                 | 145.32                       | 30.32                 | 140.03                       | 30.22                 | 140.13                       | 25.82                 | 144.53                       | 32.33                 | 138.02                       | 27.76                 | 142.59                       |
| Overburden         | Downgradient       |            | PZ-8S   |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Downgradient       |            | PZ-9D   | 20.94                 | 145.22                       | 26.67                 | 139.49                       | 26.01                 | 140.15                       | 21.70                 | 144.46                       | 27.94                 | 138.22                       | 23.54                 | 142.62                       |
| Overburden         | Downgradient       |            | PZ-9S   |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Downgradient       |            | PZ-10S  | 27.48                 | 148.15                       | 36.61                 | 139.02                       | 34.33                 | 141.30                       | 29.57                 | 146.06                       | 36.45                 | 139.18                       | 32.20                 | 143.43                       |
| Bedrock            | Downgradient       | AP-1       | PZ-11S  | 45.63                 | 146.06                       | 52.61                 | 139.08                       | 50.78                 | 140.91                       | 46.66                 | 145.03                       | 52.75                 | 138.94                       | 48.36                 | 143.33                       |
| Bedrock            | Downgradient       | AP-1       | PZ-12S  | 27.16                 | 146.76                       | 34.05                 | 139.87                       | 33.58                 | 140.34                       | 28.97                 | 144.95                       | 35.64                 | 138.28                       | 30.60                 | 143.32                       |
| Overburden         | Downgradient       | AP-1       | PZ-13S  |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Downgradient       |            | PZ-14   | 36.02                 | 147.44                       | 44.23                 | 139.23                       | 42.00                 | 141.46                       | 36.89                 | 146.57                       | 43.80                 | 139.66                       | 39.32                 | 144.14                       |
| Bedrock            | Downgradient       |            | PZ-15   | 25.21                 | 145.16                       | 30.52                 | 139.85                       | 30.17                 | 140.20                       | 26.16                 | 144.21                       | 32.26                 | 138.11                       | 27.59                 | 142.78                       |
| Bedrock            | Downgradient       |            | PZ-16   | 27.27                 | 146.65                       | 35.02                 | 138.90                       | 32.98                 | 140.94                       | 28.55                 | 145.37                       | 35.01                 | 138.91                       | 30.48                 | 143.44                       |
| Bedrock            | Downgradient       |            | PZ-17   | 25.21                 | 147.70                       | 32.07                 | 140.84                       | 31.52                 | 141.39                       | 27.02                 | 145.89                       | 33.63                 | 139.28                       | 29.13                 | 143.78                       |
| Bedrock            | Downgradient       | AP-1       | PZ-18   | 22.71                 | 147.40                       | 30.04                 | 140.07                       | 28.78                 | 141.33                       | 24.41                 | 145.70                       | 30.74                 | 139.37                       | 26.34                 | 143.77                       |
| Bedrock            | Downgradient       | AP-1       | PZ-19   | 24.16                 | 147.89                       | 32.56                 | 139.49                       | 30.92                 | 141.13                       | 26.14                 | 145.91                       | 32.92                 | 139.13                       | 28.54                 | 143.51                       |
| Bedrock            | Downgradient       | AP-1       | PZ-20   | 24.60                 | 148.84                       | 33.74                 | 139.70                       | 32.35                 | 141.09                       | 27.46                 | 145.98                       | 34.30                 | 139.14                       | 30.03                 | 143.41                       |
| Bedrock            | Downgradient       | AP-1       | PZ-21   | 30.71                 | 149.13                       | 39.09                 | 140.75                       | 37.20                 | 142.64                       | 31.83                 | 148.01                       | 39.24                 | 140.60                       | 34.70                 | 145.14                       |
| Bedrock            | Downgradient       | AP-1       | PZ-22   | 36.71                 | 150.98                       | 46.78                 | 140.91                       | 44.06                 | 143.63                       | 37.81                 | 149.88                       | 46.04                 | 141.65                       | 41.56                 | 146.13                       |
| Bedrock            | Downgradient       | AP-1       | PZ-23   |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Downgradient       | AP-1       | PZ-23A  | 40.11                 | 151.74                       | 50.27                 | 141.58                       | 48.23                 | 143.62                       | 42.69                 | 149.16                       | 49.25                 | 142.60                       | 47.32                 | 144.53                       |
| Bedrock            | Downgradient       | AP-1       | PZ-24   |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Downgradient       | AP-1       | PZ-24A  | 45.26                 | 149.71                       | 54.74                 | 140.23                       | 52.42                 | 142.55                       | 47.17                 | 147.80                       | 54.21                 | 140.76                       | 50.61                 | 144.36                       |
| Bedrock            | Downgradient       | AP-1       | PZ-25   | 22.41                 | 148.73                       | 30.57                 | 140.57                       | 29.74                 | 141.40                       | 24.70                 | 146.44                       | 31.82                 | 139.32                       | 27.33                 | 143.81                       |
| Bedrock            | Downgradient       |            | PZ-26   | 21.63                 | 145.07                       | 27.03                 | 139.67                       | 26.68                 | 140.02                       | 22.30                 | 144.40                       |                       |                              |                       |                              |
| Bedrock            | Downgradient       |            | PZ-27   | 16.88                 | 147.70                       | 25.68                 | 138.90                       | 23.81                 | 140.77                       | 18.90                 | 145.68                       | 25.91                 | 138.67                       | 21.54                 | 143.04                       |
| Bedrock            | Downgradient       | AP-1       | PZ-28   | 19.03                 | 146.93                       | 26.98                 | 138.98                       | 24.97                 | 140.99                       | 20.68                 | 145.28                       | 26.88                 | 139.08                       | 22.79                 | 143.17                       |
| Bedrock            | Downgradient       | AP-1       | PZ-29   | 26.91                 | 146.27                       | 33.04                 | 140.14                       | 33.01                 | 140.17                       | 28.23                 | 144.95                       | 35.03                 | 138.15                       | 29.93                 | 143.25                       |
| Bedrock            | Upgradient         |            | PZ-31   | 26.84                 | 156.12                       | 39.83                 | 143.13                       | 37.15                 | 145.81                       | 28.89                 | 154.07                       | 38.84                 | 144.12                       | 35.35                 | 147.61                       |
| Bedrock            | Upgradient         |            | PZ-32   | 25.02                 | 155.73                       | 38.48                 | 142.27                       | 35.83                 | 144.92                       | 24.99                 | 155.76                       | 37.78                 | 142.97                       | 32.96                 | 147.79                       |
| Bedrock            | Downgradient       |            | PZ-33   | 41.40                 | 148.21                       | 49.63                 | 139.98                       | 47.67                 | 141.94                       | 42.52                 | 147.09                       | 49.55                 | 140.06                       | 45.58                 | 144.03                       |
| Bedrock            | Downgradient       | AP-1       | PZ-57   |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              | 25.78                 | 143.57                       |

**Table 3**  
**Summary of Groundwater Elevations**  
**Georgia Power Company**  
**Plant Mitchell - 1365.11|3.04|0.2**  
**Dougherty County, US-GA**

| Overburden/Bedrock | Hydraulic Location | AP-1 Wells | Well ID | August 2022           |                              | February 2023         |                              | September 2023        |                              | February 2024         |                              | August 2024           |                              | March 2025            |                              | September 2025        |                              |
|--------------------|--------------------|------------|---------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|-----------------------|------------------------------|
|                    |                    |            |         | Depth to Water (feet) | Groundwater Elevation (feet) | Depth to Water (feet) | Groundwater Elevation (feet) | Depth to Water (feet) | Groundwater Elevation (feet) | Depth to Water (feet) | Groundwater Elevation (feet) | Depth to Water (feet) | Groundwater Elevation (feet) | Depth to Water (feet) | Groundwater Elevation (feet) | Depth to Water (feet) | Groundwater Elevation (feet) |
| Overburden         | Downgradient       | AP-1       | MW-101  | 23.16                 | 147.77                       | 10.32                 | 160.61                       | 20.51                 | 150.42                       | 14.64                 | 156.29                       | 17.95                 | 152.98                       | 10.77                 | 160.16                       | 15.78                 | 155.15                       |
| Bedrock            | Downgradient       | AP-1       | MW-102  | 32.70                 | 138.23                       | 23.68                 | 147.25                       | 33.28                 | 137.65                       | 25.95                 | 144.98                       | 31.68                 | 139.25                       | 27.68                 | 143.25                       | 31.40                 | 139.53                       |
| Bedrock            | Downgradient       |            | MW-105  |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Downgradient       |            | MW-108  |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Downgradient       |            | MW-111  | 30.36                 | 137.70                       | 22.02                 | 146.04                       | 31.48                 | 136.58                       | 25.17                 | 142.89                       | 30.60                 | 137.46                       | 25.86                 | 142.20                       |                       |                              |
| Bedrock            | Downgradient       |            | MW-113  | 36.97                 | 137.64                       | 28.04                 | 146.57                       | 37.23                 | 137.38                       | 28.80                 | 145.81                       | 33.68                 | 140.93                       | 31.82                 | 142.79                       |                       |                              |
| Bedrock            | Downgradient       |            | MW-115  |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Downgradient       | AP-1       | MW-116  | 34.09                 | 137.60                       | 25.16                 | 146.53                       | 34.65                 | 137.04                       | 27.19                 | 144.50                       | 32.72                 | 138.97                       | 29.54                 | 142.15                       | 32.29                 | 139.40                       |
| Overburden         | Downgradient       |            | MW-119  | 38.46                 | 156.03                       | 37.63                 | 156.86                       |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Downgradient       |            | MW-120  |                       |                              | 46.15                 | 147.64                       |                       |                              | 45.69                 | 148.10                       |                       |                              |                       |                              |                       |                              |
| Bedrock            | Downgradient       | AP-1       | PZ-01R  | 54.09                 | 137.78                       | 45.47                 | 146.40                       | 54.41                 | 137.46                       | 47.39                 | 144.48                       | 52.42                 | 139.45                       | 49.35                 | 142.52                       |                       |                              |
| Bedrock            | Downgradient       |            | PZ-02R  | 54.12                 | 137.54                       | 45.92                 | 145.74                       |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Downgradient       |            | PZ-03R  |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Upgradient         |            | PZ-1D   | 55.16                 | 141.28                       | 46.33                 | 150.11                       | 55.13                 | 141.31                       | 46.31                 | 150.13                       | 51.72                 | 144.72                       | 50.61                 | 145.83                       | 52.93                 | 143.51                       |
| Overburden         | Upgradient         |            | PZ-1S   | 41.54                 | 154.98                       | 38.95                 | 157.57                       | 37.94                 | 158.58                       | 35.93                 | 160.59                       | 34.93                 | 161.59                       | 38.70                 | 157.82                       | 37.83                 | 158.69                       |
| Bedrock            | Upgradient         |            | PZ-2D   | 38.62                 | 139.89                       | 28.38                 | 150.13                       | 38.66                 | 139.85                       | 29.80                 | 148.71                       | 35.27                 | 143.24                       | 33.95                 | 144.56                       | 36.29                 | 142.22                       |
| Overburden         | Upgradient         |            | PZ-2S   | 38.69                 | 139.92                       | 28.53                 | 150.08                       | 38.74                 | 139.87                       | 29.88                 | 148.73                       | 35.28                 | 143.33                       | 34.05                 | 144.56                       | 36.34                 | 142.27                       |
| Bedrock            | Upgradient         |            | PZ-3D   | 51.40                 | 139.58                       | 41.62                 | 149.36                       | 51.34                 | 139.64                       | 42.59                 | 148.39                       | 48.08                 | 142.90                       | 46.48                 | 144.50                       | 48.92                 | 142.06                       |
| Overburden         | Upgradient         |            | PZ-3S   | 49.15                 | 141.97                       |                       |                              | 48.26                 | 142.86                       | 39.40                 | 151.72                       | 44.00                 | 147.12                       | 44.21                 | 146.91                       | 44.59                 | 146.53                       |
| Bedrock            | Downgradient       | AP-1       | PZ-4D   | 52.11                 | 138.99                       | 45.83                 | 145.27                       | 51.89                 | 139.21                       | 43.46                 | 147.64                       | 49.14                 | 141.96                       | 48.35                 | 142.75                       | 49.50                 | 141.60                       |
| Overburden         | Downgradient       | AP-1       | PZ-4S   | 30.75                 | 160.45                       |                       |                              | 27.75                 | 163.45                       | 22.79                 | 168.41                       | 26.95                 | 164.25                       | 27.40                 | 163.80                       | 23.42                 | 167.78                       |
| Bedrock            | Downgradient       |            | PZ-5D   |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Overburden         | Downgradient       |            | PZ-6S   | 26.88                 | 162.59                       | 14.09                 | 175.38                       | 24.47                 | 165.00                       | 16.95                 | 172.52                       | 18.38                 | 171.09                       | 20.36                 | 169.11                       | 18.83                 | 170.64                       |
| Bedrock            | Downgradient       |            | PZ-7D   | 35.95                 | 137.13                       | 26.90                 | 146.18                       | 36.21                 | 136.87                       | 29.00                 | 144.08                       | 34.21                 | 138.87                       | 31.28                 | 141.80                       | 34.23                 | 138.85                       |
| Overburden         | Downgradient       |            | PZ-7S   | 34.87                 | 138.23                       | 26.82                 | 146.28                       | 34.98                 | 138.12                       | 28.91                 | 144.19                       | 34.15                 | 138.95                       | 31.21                 | 141.89                       | 34.12                 | 138.98                       |
| Bedrock            | Downgradient       |            | PZ-8D   | 32.75                 | 137.60                       | 24.74                 | 145.61                       | 33.79                 | 136.56                       | 27.36                 | 142.99                       | 32.83                 | 137.52                       | 28.15                 | 142.20                       | 32.60                 | 137.75                       |
| Overburden         | Downgradient       |            | PZ-8S   | 32.59                 | 138.19                       | 26.61                 | 144.17                       | 32.57                 | 138.21                       | 19.39                 | 151.39                       | 27.48                 | 143.30                       | 28.59                 | 142.19                       | 27.63                 | 143.15                       |
| Bedrock            | Downgradient       |            | PZ-9D   | 28.74                 | 137.42                       | 20.81                 | 145.35                       | 29.45                 | 136.71                       | 22.74                 | 143.42                       | 28.30                 | 137.86                       | 24.25                 | 141.91                       | 28.02                 | 138.14                       |
| Overburden         | Downgradient       |            | PZ-9S   | 28.68                 | 137.34                       | 20.63                 | 145.39                       | 29.12                 | 136.90                       | 22.84                 | 143.18                       | 27.79                 | 138.23                       | 23.92                 | 142.10                       | 27.58                 | 138.44                       |
| Bedrock            | Downgradient       |            | PZ-10S  |                       |                              | 29.94                 | 145.69                       | 38.81                 | 136.82                       | 29.29                 | 146.34                       | 35.95                 | 139.68                       | 34.41                 | 141.22                       | 36.42                 | 139.21                       |
| Bedrock            | Downgradient       | AP-1       | PZ-11S  |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Downgradient       | AP-1       | PZ-12S  | 36.22                 | 137.70                       | 27.78                 | 146.14                       | 36.92                 | 137.00                       | 29.84                 | 144.08                       | 35.67                 | 138.25                       | 31.91                 | 142.01                       | 35.27                 | 138.65                       |
| Overburden         | Downgradient       | AP-1       | PZ-13S  | 36.22                 | 137.00                       | 26.24                 | 146.98                       | 35.73                 | 137.49                       | 29.23                 | 143.99                       | 34.18                 | 139.04                       | 30.72                 | 142.50                       | 33.65                 | 139.57                       |
| Bedrock            | Downgradient       |            | PZ-14   | 45.87                 | 137.59                       | 38.54                 | 144.92                       | 46.05                 | 137.41                       | 37.97                 | 145.49                       | 43.75                 | 139.71                       | 41.92                 | 141.54                       | 44.07                 | 139.39                       |
| Bedrock            | Downgradient       |            | PZ-15   | 33.60                 | 136.77                       | 24.87                 | 145.50                       | 33.73                 | 136.64                       | 26.86                 | 143.51                       | 32.58                 | 137.79                       | 28.15                 | 142.22                       | 32.32                 | 138.05                       |
| Bedrock            | Downgradient       |            | PZ-16   | 36.63                 | 137.29                       | 28.62                 | 145.30                       | 37.15                 | 136.77                       | 28.78                 | 145.14                       | 34.52                 | 139.40                       | 32.69                 | 141.23                       | 34.62                 | 139.30                       |
| Bedrock            | Downgradient       |            | PZ-17   | 35.56                 | 137.35                       | 26.43                 | 146.48                       | 35.95                 | 136.96                       | 28.11                 | 144.80                       | 33.43                 | 139.48                       | 30.68                 | 142.23                       | 33.65                 | 139.26                       |
| Bedrock            | Downgradient       | AP-1       | PZ-18   | 32.68                 | 137.43                       | 24.22                 | 145.89                       | 33.06                 | 137.05                       | 25.81                 | 144.30                       | 31.16                 | 138.95                       | 27.97                 | 142.14                       | 30.88                 | 139.23                       |
| Bedrock            | Downgradient       | AP-1       | PZ-19   | 34.47                 | 137.58                       | 25.88                 | 146.17                       | 34.94                 | 137.11                       | 27.42                 | 144.63                       | 32.88                 | 139.17                       | 30.03                 | 142.02                       | 32.43                 | 139.62                       |
| Bedrock            | Downgradient       | AP-1       | PZ-20   | 35.79                 | 137.65                       | 27.08                 | 146.36                       | 36.20                 | 137.24                       | 28.81                 | 144.63                       | 34.41                 | 139.03                       | 31.07                 | 142.37                       | 34.14                 | 139.30                       |
| Bedrock            | Downgradient       | AP-1       | PZ-21   | 41.31                 | 138.53                       | 33.09                 | 146.75                       | 41.66                 | 138.18                       | 33.94                 | 145.90                       | 39.42                 | 140.42                       | 36.88                 | 142.96                       | 39.66                 | 140.18                       |
| Bedrock            | Downgradient       | AP-1       | PZ-22   | 48.88                 | 138.81                       | 40.83                 | 146.86                       | 48.89                 | 138.80                       | 40.13                 | 147.56                       | 45.93                 | 141.76                       | 44.49                 | 143.20                       | 46.38                 | 141.31                       |
| Bedrock            | Downgradient       | AP-1       | PZ-23   |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Downgradient       | AP-1       | PZ-23A  | 52.95                 | 138.90                       | 47.02                 | 144.83                       | 52.79                 | 139.06                       | 45.15                 | 146.70                       | 50.21                 | 141.64                       | 49.21                 | 142.64                       | 50.46                 | 141.39                       |
| Bedrock            | Downgradient       | AP-1       | PZ-24   |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Downgradient       | AP-1       | PZ-24A  | 56.59                 | 138.38                       | 50.28                 | 144.69                       | 56.68                 | 138.29                       | 49.37                 | 145.60                       | 54.38                 | 140.59                       | 52.96                 | 142.01                       | 54.59                 | 140.38                       |
| Bedrock            | Downgradient       | AP-1       | PZ-25   | 32.91                 | 138.23                       | 23.87                 | 147.27                       | 33.50                 | 137.64                       | 26.15                 | 144.99                       | 31.93                 | 139.21                       | 27.90                 | 143.24                       | 31.64                 | 139.50                       |
| Bedrock            | Downgradient       |            | PZ-26   |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |                       |                              |
| Bedrock            | Downgradient       |            | PZ-27   | 27.31                 | 137.27                       | 19.22                 | 145.36                       | 27.80                 | 136.78                       | 18.07                 | 146.51                       | 25.54                 | 139.04                       | 23.23                 | 141.35                       | 25.91                 | 138.67                       |
| Bedrock            | Downgradient       | AP-1       | PZ-28   | 28.57                 | 137.39                       | 20.15                 | 145.81                       | 29.06                 | 136.90                       | 21.15                 | 144.81                       | 26.42                 | 139.54                       | 24.28                 | 141.68                       | 26.79                 | 139.17                       |
| Bedrock            | Downgradient       | AP-1       | PZ-29   | 35.41                 | 137.77                       | 26.94                 | 146.24                       | 36.18                 | 137.00                       | 29.36                 | 143.82                       | 35.19                 | 137.99                       | 31.13                 | 142.05                       | 34.71                 | 138.47                       |
| Bedrock            | Upgradient         |            | PZ-31   | 41.76                 | 141.20                       | 34.72                 | 148.24                       | 41.75                 | 141.21                       | 32.80                 | 150.16                       | 38.68                 | 144.28                       | 37.32                 | 145.64                       | 39.57                 | 143.39                       |
| Bedrock            | Upgradient         |            | PZ-32   | 40.70                 | 140.05                       | 30.34                 | 150.41                       | 40.71                 | 140.04                       | 31.41                 | 149.34                       | 37.14                 | 143.61                       | 36.12                 | 144.63                       | 38.30                 | 142.45                       |
| Bedrock            | Downgradient       |            | PZ-33   | 54.68                 | 134.93                       | 44.36                 | 145.25                       | 51.87                 | 137.74                       | 44.13                 | 145.48                       | 49.57                 | 140.04                       | 47.79                 | 141.82                       | 49.82                 | 139.79                       |
| Bedrock            | Downgradient       | AP-1       | PZ-57   | 32.02                 | 137.33                       | 23.42                 | 145.93                       | 32.34                 | 137.01                       | 24.89                 | 144.46                       | 30.33                 | 139.02                       | 27.26                 | 142.09                       | 30.23                 | 139.12                       |

**APPENDIX C**

# SPT Blow Counts Comparison

**Soil Type and SPT Summary For Dike Materails (2010 Borings, Plant Mitchell Ash Pond 1)**

Project Name: Plant Mitchell Ash Pond-1  
 Project Number: US0037149.0170  
 Task: 2.4

Prepared by: Prakash Ghimire  
 Reviewed by: Andrew Fuggle

| S. No. | Location | Boring ID | Type | Simplified delineation | Depth (ft) bgs |    | Mid depth (ft) | Ground Surface Elevation (ft) | Sample Elevation (ft) | Soil Classification | Blow Counts |    |    | Blow Count (SPT-N) | REMARKS |
|--------|----------|-----------|------|------------------------|----------------|----|----------------|-------------------------------|-----------------------|---------------------|-------------|----|----|--------------------|---------|
|        |          |           |      |                        | from           | to |                |                               |                       |                     | n1          | n2 | n3 |                    |         |
| 1      | Crest    | AP1-2     | SPT  | CLAYEY SAND            | 2.5            | 4  | 3.25           | 191.1                         | 187.85                | SC                  | 5           | 6  | 7  | 13                 |         |
| 2      | Crest    | AP1-2     | SPT  | SANDY LEAN CLAY        | 4.5            | 6  | 5.25           | 191.1                         | 185.85                | CL                  | 4           | 5  | 3  | 8                  |         |
| 3      | Crest    | AP1-2     | SPT  | SANDY LEAN CLAY        | 7.5            | 9  | 8.25           | 191.1                         | 182.85                | CL                  | 4           | 4  | 3  | 7                  |         |
| 4      | Crest    | AP1-2     | SPT  | CLAYEY SAND            | 14.5           | 16 | 15.25          | 191.1                         | 175.85                | SC                  | 5           | 6  | 8  | 14                 |         |
| 5      | Crest    | AP1-2     | SPT  | CLAYEY SAND            | 19.5           | 21 | 20.25          | 191.1                         | 170.85                | SC                  | 5           | 4  | 4  | 8                  |         |
| 6      | Crest    | AP1-2     | SPT  | CLAYEY SAND            | 24.5           | 26 | 25.25          | 191.1                         | 165.85                | SC                  | 6           | 6  | 5  | 11                 |         |
| 7      | Crest    | AP1-5     | SPT  | SANDY LEAN CLAY        | 2.5            | 4  | 3.25           | 190.7                         | 187.45                | CL                  | 3           | 3  | 5  | 8                  |         |
| 8      | Crest    | AP1-5     | SPT  | SANDY LEAN CLAY        | 4.5            | 6  | 5.25           | 190.7                         | 185.45                | CL                  | 2           | 2  | 3  | 5                  |         |
| 9      | Crest    | AP1-5     | SPT  | SILTY SAND             | 7.5            | 9  | 8.25           | 190.7                         | 182.45                | SM                  | 3           | 2  | 4  | 6                  |         |
| 10     | Crest    | AP1-5     | SPT  | LEAN CLAY              | 14.5           | 16 | 15.25          | 190.7                         | 175.45                | CL                  | 5           | 3  | 4  | 7                  |         |
| 11     | Crest    | AP1-5     | SPT  | LEAN CLAY              | 19.5           | 21 | 20.25          | 190.7                         | 170.45                | CL                  | 3           | 3  | 3  | 6                  |         |

Minimum= 5  
 Maximim= 14  
 Average= 8.5



**Soil Type and SPT Summary For Dike Materials (2010 Borings, Plant Mitchell Ash Pond 2)**

Project Name: Plant Mitchell Ash Pond-1  
 Project Number: US0037149.0170  
 Task: 2.4

Prepared by: Prakash Ghimire  
 Reviewed by: Andrew Fuggle

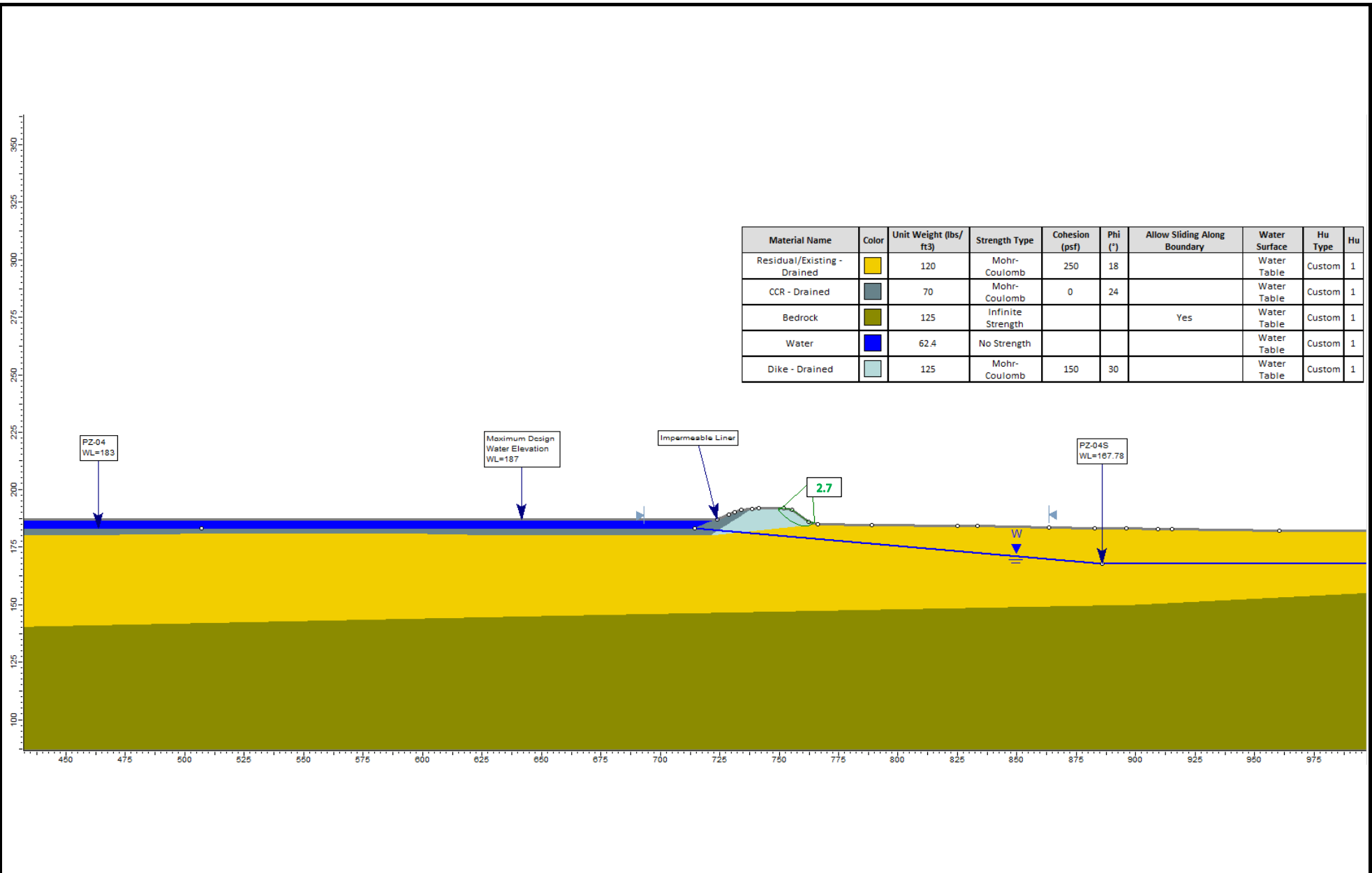
| S. No. | Location | Boring ID | Type | Simplified delineation | Depth (ft) bgs |    | Mid depth (ft) | Ground Surface Elevation (ft) | Sample Elevation (ft) | Soil Classification | SPT |    |    | Blow Count (SPT-N) | REMARKS |
|--------|----------|-----------|------|------------------------|----------------|----|----------------|-------------------------------|-----------------------|---------------------|-----|----|----|--------------------|---------|
|        |          |           |      |                        | from           | to |                |                               |                       |                     | n1  | n2 | n3 |                    |         |
| 1      | Crest NW | AP2-1     | SPT  | SANDY FAT CLAY         | 2.5            | 4  | 3.25           | 194.8                         | 191.55                | CH                  | 6   | 4  | 8  | 12                 |         |
| 2      | Crest NW | AP2-1     | SPT  | SANDY FAT CLAY         | 4.5            | 6  | 5.25           | 194.8                         | 189.55                | CH                  | 6   | 4  | 8  | 12                 |         |
| 3      | Crest NW | AP2-1     | SPT  | SANDY FAT CLAY         | 7.5            | 9  | 8.25           | 194.8                         | 186.55                | CH                  | 4   | 6  | 7  | 13                 |         |
| 4      | Crest NW | AP2-1     | SPT  | SILTY SAND             | 9.5            | 11 | 10.25          | 194.8                         | 184.55                | SM                  | 5   | 9  | 9  | 18                 |         |
| 5      | Crest NW | AP2-1     | SPT  | CLAYEY SAND            | 19.5           | 21 | 20.25          | 194.8                         | 174.55                | SC                  | 4   | 5  | 9  | 14                 |         |
| 6      | Crest NW | AP2-1     | SPT  | CLAYEY SAND            | 24.5           | 26 | 25.25          | 194.8                         | 169.55                | SC                  | 5   | 6  | 9  | 15                 |         |
| 7      | Crest    | AP2-3     | SPT  | SANDY LEAN CLAY        | 2.5            | 4  | 3.25           | 193.7                         | 190.45                | CL                  | 5   | 5  | 7  | 12                 |         |
| 8      | Crest    | AP2-3     | SPT  | SANDY LEAN CLAY        | 4.5            | 6  | 5.25           | 193.7                         | 188.45                | CL                  | 4   | 4  | 6  | 10                 |         |
| 9      | Crest    | AP2-3     | SPT  | SANDY LEAN CLAY        | 7.5            | 9  | 8.25           | 193.7                         | 185.45                | CL                  | 5   | 5  | 8  | 13                 |         |
| 10     | Crest    | AP2-3     | SPT  | SANDY LEAN CLAY        | 9.5            | 11 | 10.25          | 193.7                         | 183.45                | CL                  | 4   | 5  | 7  | 12                 |         |
| 11     | Crest    | AP2-3     | SPT  | SANDY LEAN CLAY        | 19.5           | 21 | 20.25          | 193.7                         | 173.45                | CL                  | 4   | 3  | 4  | 7                  |         |
| 12     | Crest    | AP2-3     | SPT  | SANDY LEAN CLAY        | 24.5           | 26 | 25.25          | 193.7                         | 168.45                | CL                  | 3   | 3  | 4  | 7                  |         |
| 13     | Crest    | AP2-5     | SPT  | SANDY LEAN CLAY        | 2.5            | 4  | 3.25           | 194.2                         | 190.95                | CL                  | 5   | 6  | 9  | 15                 |         |
| 14     | Crest    | AP2-5     | SPT  | SANDY LEAN CLAY        | 4.5            | 6  | 5.25           | 194.2                         | 188.95                | CL                  | 6   | 7  | 9  | 16                 |         |
| 15     | Crest    | AP2-5     | SPT  | SANDY LEAN CLAY        | 7.5            | 9  | 8.25           | 194.2                         | 185.95                | CL                  | 7   | 9  | 12 | 21                 |         |
| 16     | Crest    | AP2-5     | SPT  | SANDY LEAN CLAY        | 9.5            | 11 | 10.25          | 194.2                         | 183.95                | CL                  | 5   | 8  | 12 | 20                 |         |
| 17     | Crest    | AP2-5     | SPT  | CLAYEY SAND            | 19.5           | 21 | 20.25          | 194.2                         | 173.95                | SC                  | 4   | 7  | 11 | 18                 |         |
| 18     | Crest    | AP2-5     | SPT  | CLAYEY SAND            | 24.5           | 26 | 25.25          | 194.2                         | 168.95                | SC                  | 5   | 7  | 10 | 17                 |         |


Minimum= 7  
 Maximim= 21  
 Average= 14

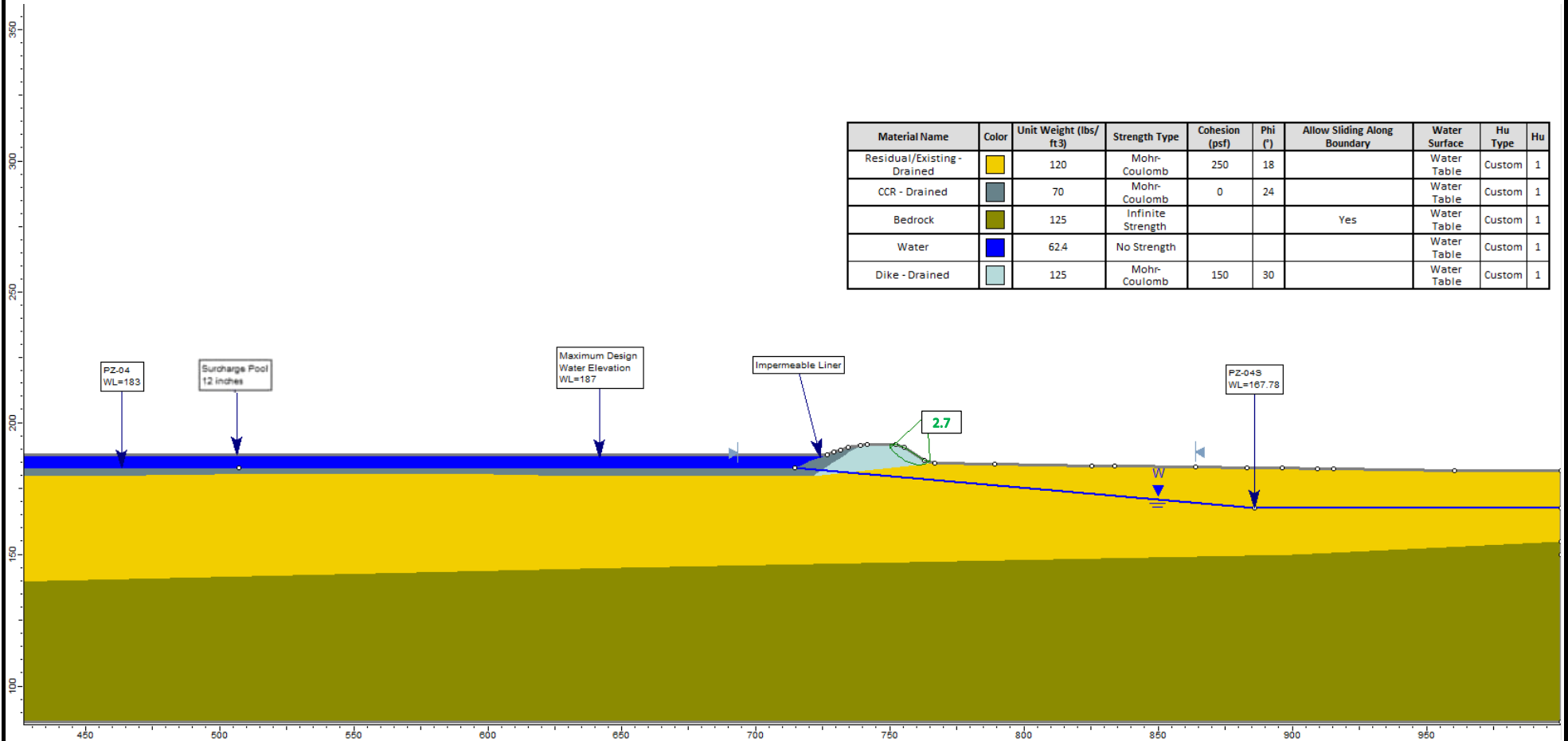


**APPENDIX D**


# Slope Stability Model Outputs

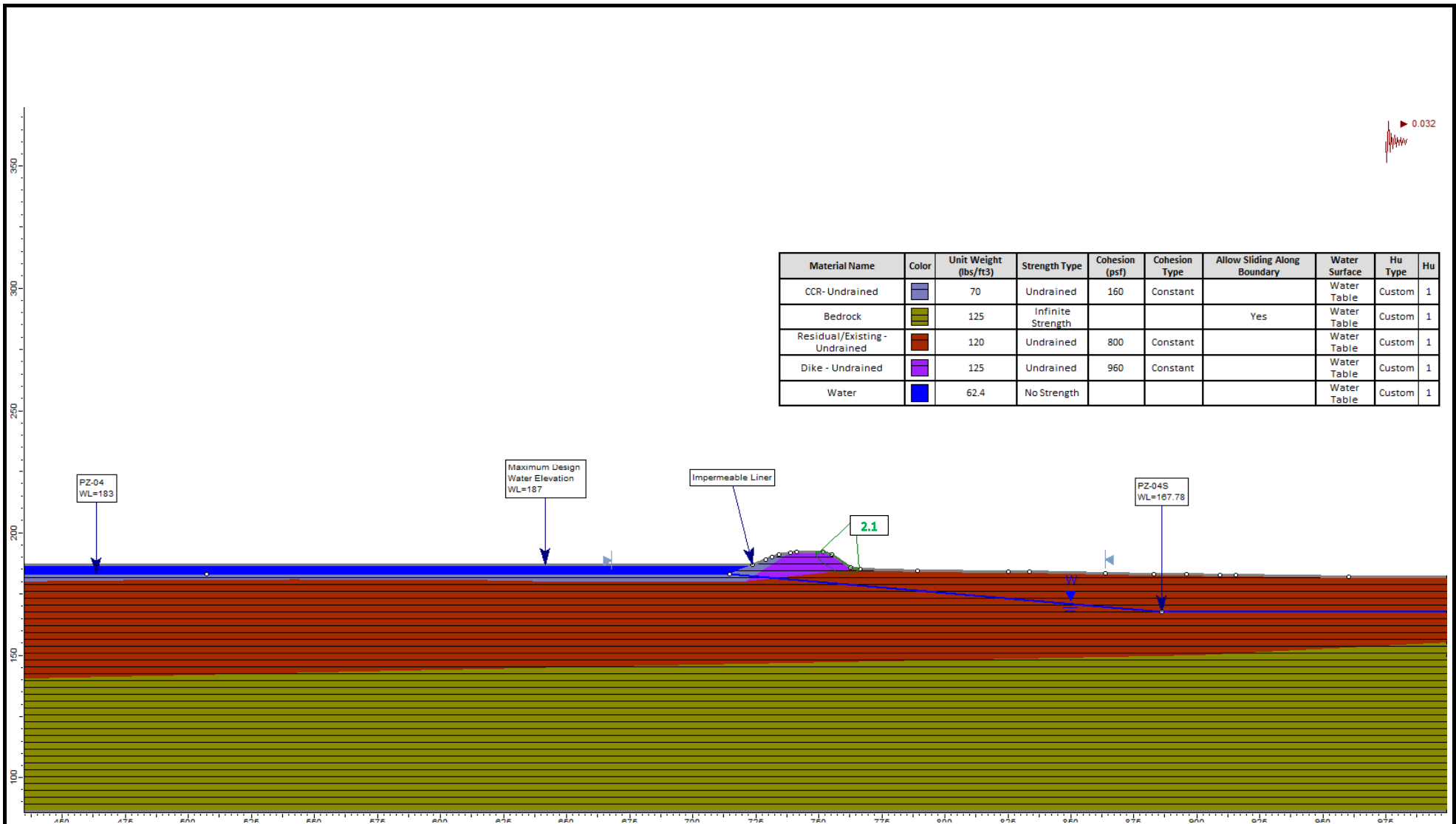


|                                                                                     |                               |          |                    |                                  |        |
|-------------------------------------------------------------------------------------|-------------------------------|----------|--------------------|----------------------------------|--------|
|  | SCALE                         | AS SHOWN | PROJECT            | Plant Mitchell Ash Pond-1 (AP-1) |        |
|                                                                                     | DATE                          | Feb 2026 | TITLE              | Section A-A'                     |        |
|                                                                                     | MADE BY                       | PG       | ANALYSIS CONDITION |                                  |        |
|                                                                                     | CAD                           | -        | CLIENT             | Southern Company Services        |        |
| FILE                                                                                | INITIAL FACTOR OF SAFETY AP-1 | CHECK    | AF                 | CLIENT                           | FIGURE |
| PROJECT No.                                                                         | US0037149.0170                | REVIEW   | RM                 | A-1                              |        |
| REV.                                                                                | 0                             |          |                    |                                  |        |



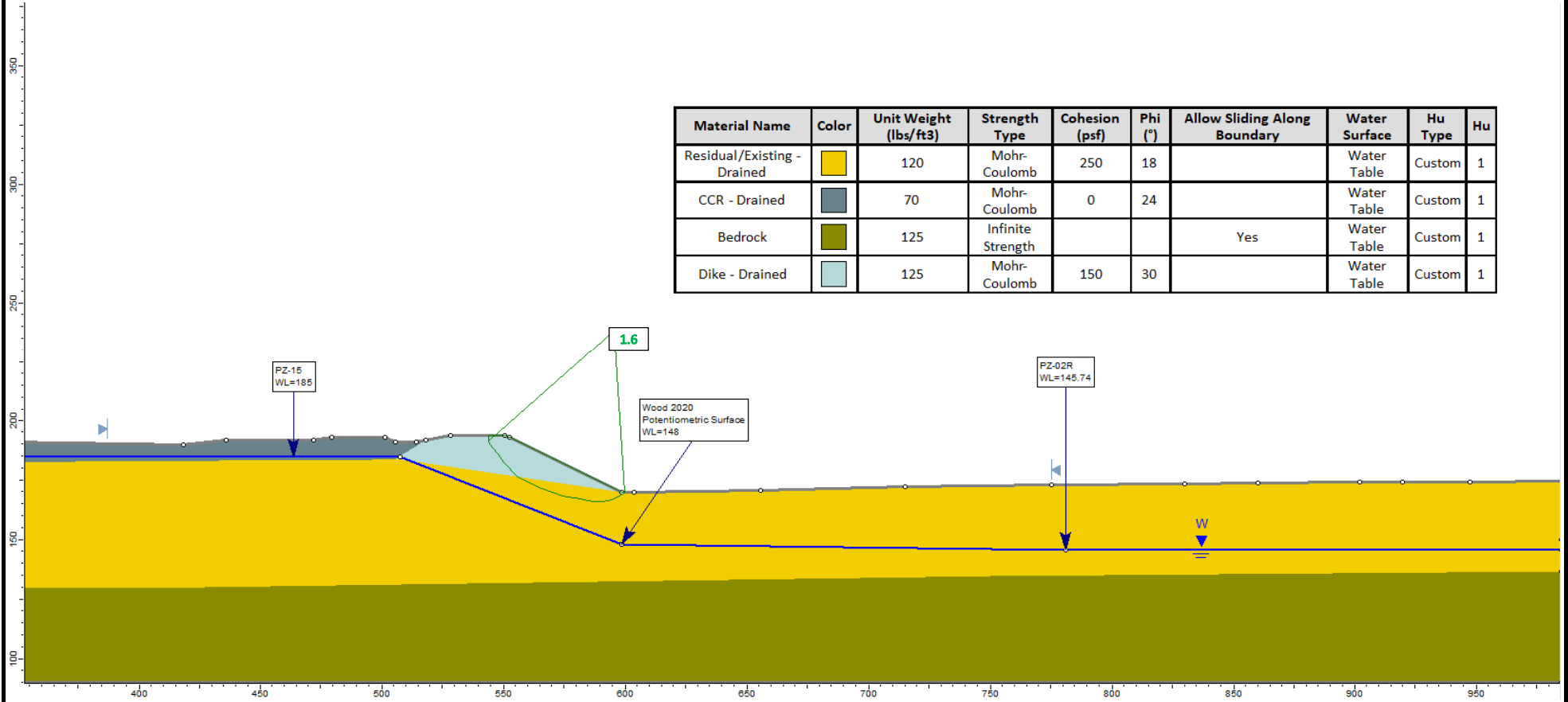
| Material Name             | Color      | Unit Weight (lbs/ft <sup>3</sup> ) | Strength Type     | Cohesion (psf) | Phi (°) | Allow Sliding Along Boundary | Water Surface | Hu Type | Hu |
|---------------------------|------------|------------------------------------|-------------------|----------------|---------|------------------------------|---------------|---------|----|
| Residual/Existing-Drained | Yellow     | 120                                | Mohr-Coulomb      | 250            | 18      |                              | Water Table   | Custom  | 1  |
| CCR - Drained             | Grey       | 70                                 | Mohr-Coulomb      | 0              | 24      |                              | Water Table   | Custom  | 1  |
| Bedrock                   | Green      | 125                                | Infinite Strength |                |         | Yes                          | Water Table   | Custom  | 1  |
| Water                     | Blue       | 62.4                               | No Strength       |                |         |                              | Water Table   | Custom  | 1  |
| Dike - Drained            | Light Blue | 125                                | Mohr-Coulomb      | 150            | 30      |                              | Water Table   | Custom  | 1  |

|                                                                                     |                               |          |                    |                                  |        |
|-------------------------------------------------------------------------------------|-------------------------------|----------|--------------------|----------------------------------|--------|
|  | SCALE                         | AS SHOWN | PROJECT            | Plant Mitchell Ash Pond-1 (AP-1) |        |
|                                                                                     | DATE                          | Feb 2026 | TITLE              | Section A-A'                     |        |
|                                                                                     | MADE BY                       | PG       | ANALYSIS CONDITION |                                  |        |
|                                                                                     | CAD                           | -        | CLIENT             | Southern Company Services        |        |
| FILE                                                                                | INITIAL FACTOR OF SAFETY AP-1 | CHECK    | AF                 | CLIENT                           | FIGURE |
| PROJECT No.                                                                         | US0037149.0170                | REVIEW   | RM                 | A-2                              |        |




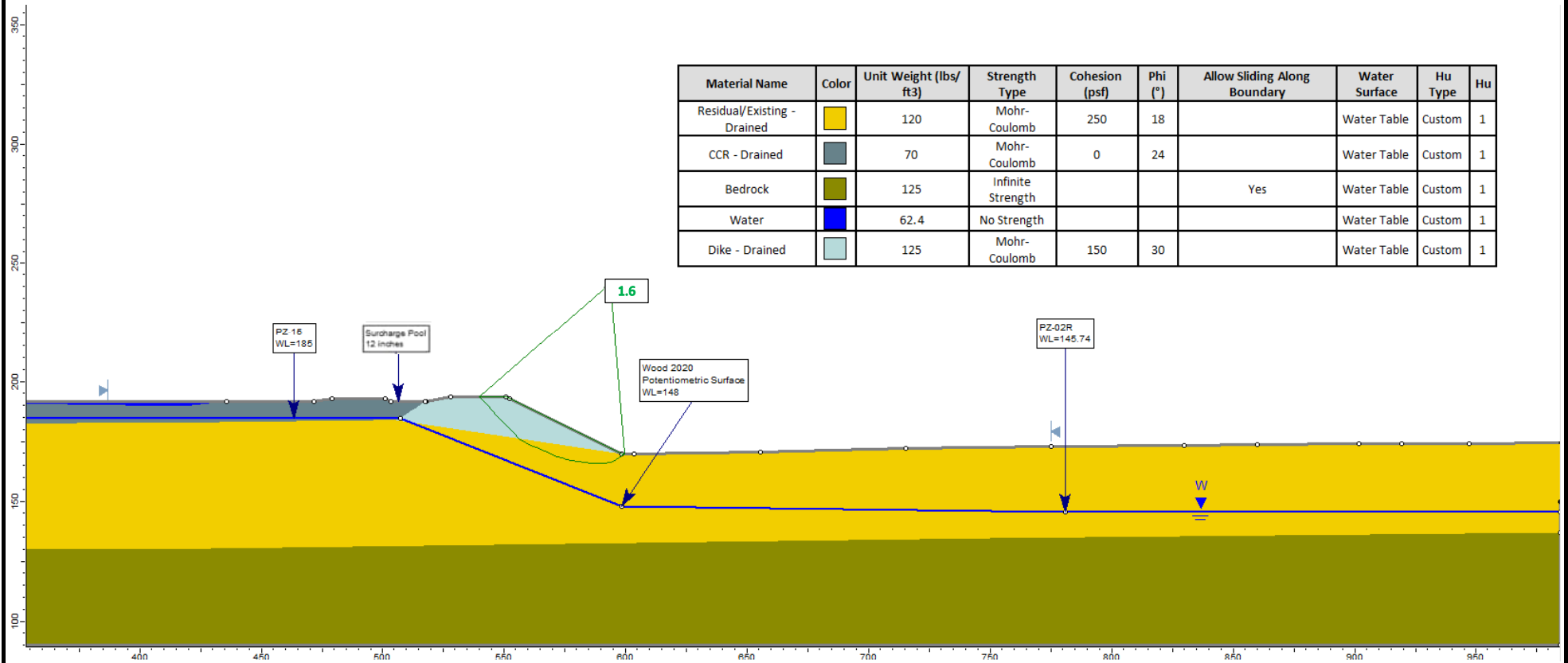
Note: Hatching indicates material properties discounted by 20% to account for dynamic excess pore pressures.

|             |                               |          |                    |                                  |    |
|-------------|-------------------------------|----------|--------------------|----------------------------------|----|
|             | SCALE                         | AS SHOWN | PROJECT            | Plant Mitchell Ash Pond-1 (AP-1) |    |
|             | DATE                          | Feb 2026 | TITLE              | <b>Section A-A'</b>              |    |
|             | MADE BY                       | PG       | ANALYSIS CONDITION |                                  |    |
|             | CAD                           | -        | CLIENT             | <b>Southern Company Services</b> |    |
| FILE        | INITIAL FACTOR OF SAFETY AP-1 | CHECK    | AF                 |                                  |    |
| PROJECT No. | US0037149.0170                | REV.     | 0                  | REVIEW                           | RM |



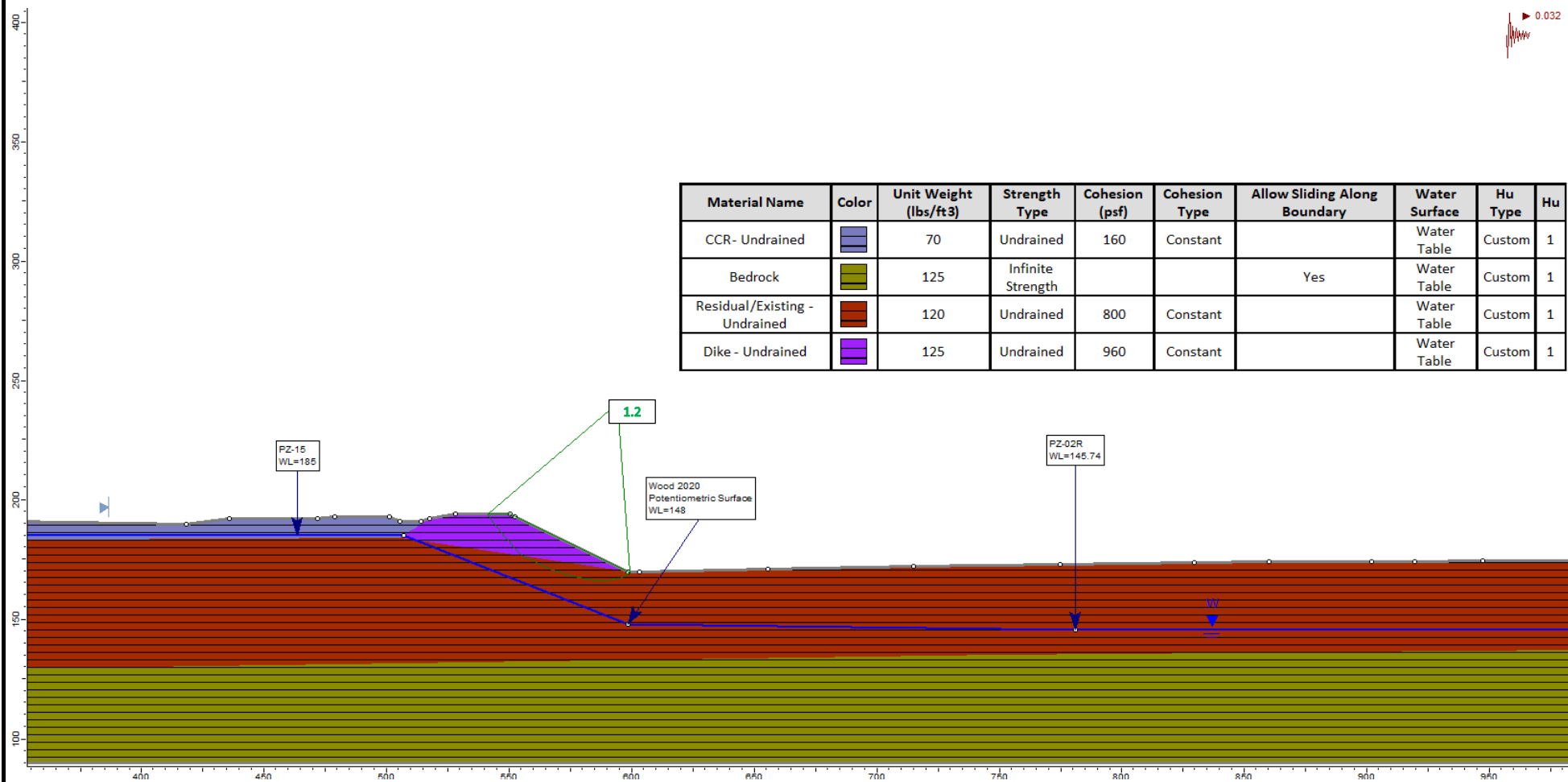
| Material Name               | Color      | Unit Weight (lbs/ft <sup>3</sup> ) | Strength Type     | Cohesion (psf) | Phi (°) | Allow Sliding Along Boundary | Water Surface | Hu Type | Hu |
|-----------------------------|------------|------------------------------------|-------------------|----------------|---------|------------------------------|---------------|---------|----|
| Residual/Existing - Drained | Yellow     | 120                                | Mohr-Coulomb      | 250            | 18      |                              | Water Table   | Custom  | 1  |
| CCR - Drained               | Grey       | 70                                 | Mohr-Coulomb      | 0              | 24      |                              | Water Table   | Custom  | 1  |
| Bedrock                     | Green      | 125                                | Infinite Strength |                |         | Yes                          | Water Table   | Custom  | 1  |
| Dike - Drained              | Light Blue | 125                                | Mohr-Coulomb      | 150            | 30      |                              | Water Table   | Custom  | 1  |

|                                                                                     |                               |          |                    |                                  |     |
|-------------------------------------------------------------------------------------|-------------------------------|----------|--------------------|----------------------------------|-----|
|  | SCALE                         | AS SHOWN | PROJECT            | Plant Mitchell Ash Pond-1 (AP-1) |     |
|                                                                                     | DATE                          | Feb 2026 | TITLE              | Section B-B'                     |     |
|                                                                                     | MADE BY                       | PG       | ANALYSIS CONDITION |                                  |     |
|                                                                                     | CAD                           | -        | CLIENT             | Southern Company Services        |     |
| FILE                                                                                | INITIAL FACTOR OF SAFETY AP-1 | CHECK    | AF                 | FIGURE                           | B-1 |
| PROJECT No.                                                                         | US0037149.0170                | REVIEW   | RM                 |                                  |     |



| Material Name               | Color | Unit Weight (lbs/ft <sup>3</sup> ) | Strength Type     | Cohesion (psf) | Phi (°) | Allow Sliding Along Boundary | Water Surface | Hu Type | Hu |
|-----------------------------|-------|------------------------------------|-------------------|----------------|---------|------------------------------|---------------|---------|----|
| Residual/Existing - Drained |       | 120                                | Mohr-Coulomb      | 250            | 18      |                              | Water Table   | Custom  | 1  |
| CCR - Drained               |       | 70                                 | Mohr-Coulomb      | 0              | 24      |                              | Water Table   | Custom  | 1  |
| Bedrock                     |       | 125                                | Infinite Strength |                |         | Yes                          | Water Table   | Custom  | 1  |
| Water                       |       | 62.4                               | No Strength       |                |         |                              | Water Table   | Custom  | 1  |
| Dike - Drained              |       | 125                                | Mohr-Coulomb      | 150            | 30      |                              | Water Table   | Custom  | 1  |

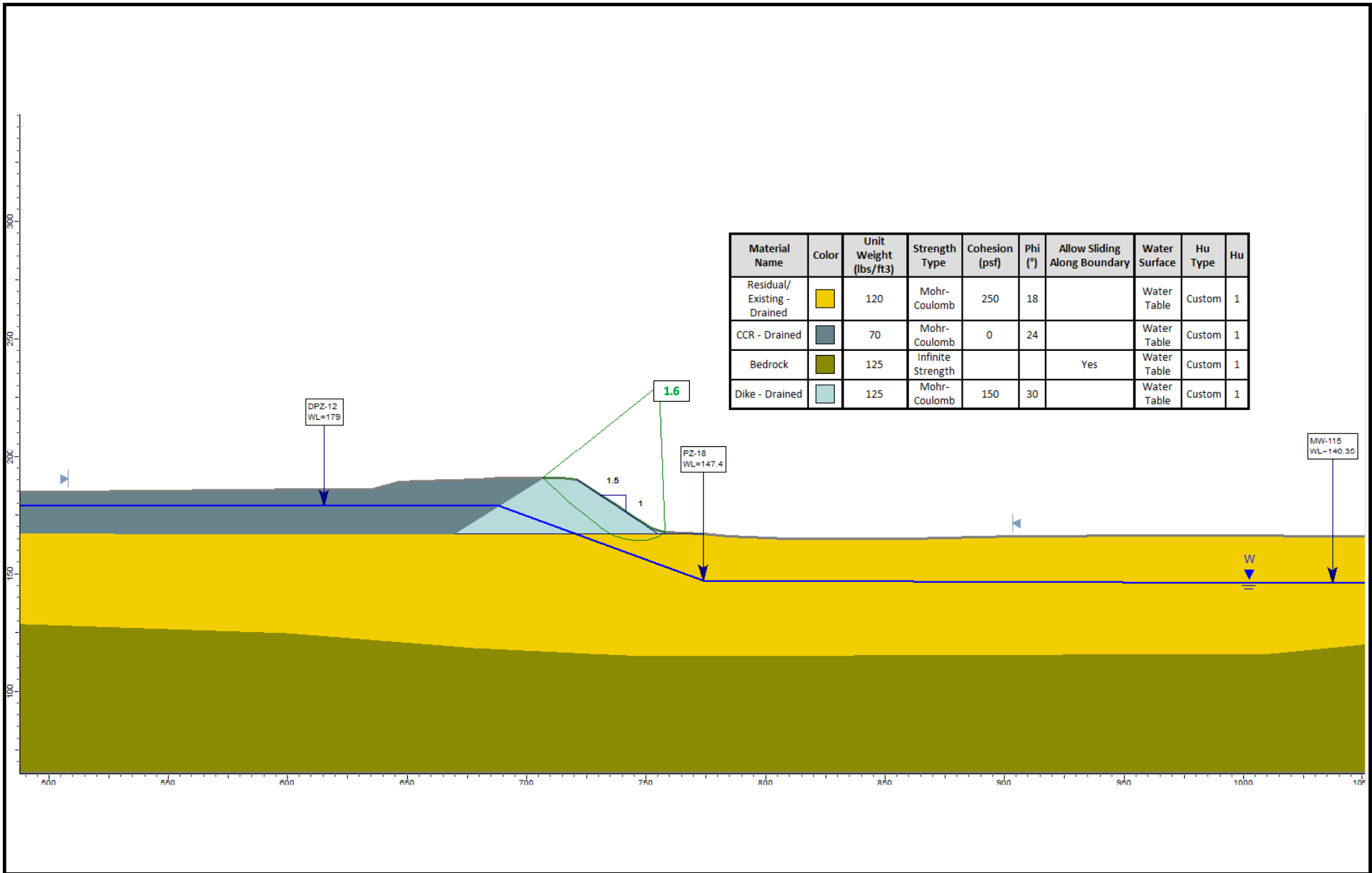
|             |                               |          |                    |                                  |            |
|-------------|-------------------------------|----------|--------------------|----------------------------------|------------|
|             | SCALE                         | AS SHOWN | PROJECT            | Plant Mitchell Ash Pond-1 (AP-1) |            |
|             | DATE                          | Feb 2026 | TITLE              | <b>Section B-B'</b>              |            |
|             | MADE BY                       | PG       | ANALYSIS CONDITION |                                  |            |
|             | CAD                           | -        | CLIENT             | <b>Southern Company Services</b> |            |
| FILE        | INITIAL FACTOR OF SAFETY AP-1 | CHECK    | AF                 | FIGURE                           | <b>B-2</b> |
| PROJECT No. | US0037149.0170                | REVIEW   | RM                 |                                  |            |




| Material Name                 | Color | Unit Weight (lbs/ft3) | Strength Type     | Cohesion (psf) | Cohesion Type | Allow Sliding Along Boundary | Water Surface | Hu Type | Hu |
|-------------------------------|-------|-----------------------|-------------------|----------------|---------------|------------------------------|---------------|---------|----|
| CCR- Undrained                |       | 70                    | Undrained         | 160            | Constant      |                              | Water Table   | Custom  | 1  |
| Bedrock                       |       | 125                   | Infinite Strength |                |               | Yes                          | Water Table   | Custom  | 1  |
| Residual/Existing - Undrained |       | 120                   | Undrained         | 800            | Constant      |                              | Water Table   | Custom  | 1  |
| Dike - Undrained              |       | 125                   | Undrained         | 960            | Constant      |                              | Water Table   | Custom  | 1  |

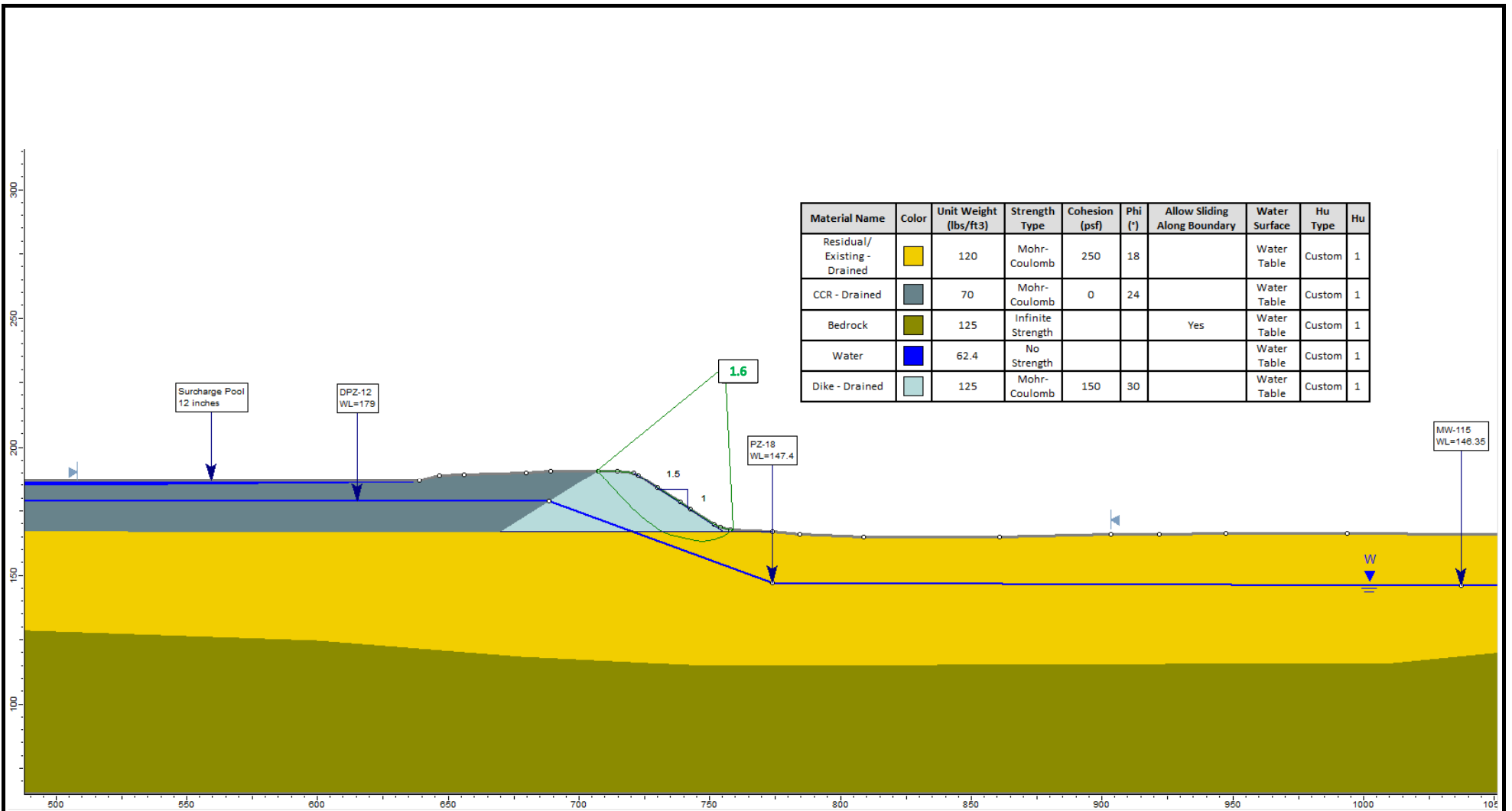
Note: Hatching indicates material properties discounted by 20% to account for dynamic excess pore pressures.

|             |                               |          |                    |                                  |   |
|-------------|-------------------------------|----------|--------------------|----------------------------------|---|
|             | SCALE                         | AS SHOWN | PROJECT            | Plant Mitchell Ash Pond-1 (AP-1) |   |
|             | DATE                          | Feb 2026 | TITLE              | Section B-B'                     |   |
|             | MADE BY                       | PG       | ANALYSIS CONDITION |                                  |   |
|             | CAD                           | -        | CLIENT             | Southern Company Services        |   |
| FILE        | INITIAL FACTOR OF SAFETY AP-1 | CHECK    | AF                 |                                  |   |
| PROJECT No. | US0037149.0170                | REVIEW   | RM                 | REV.                             | 0 |




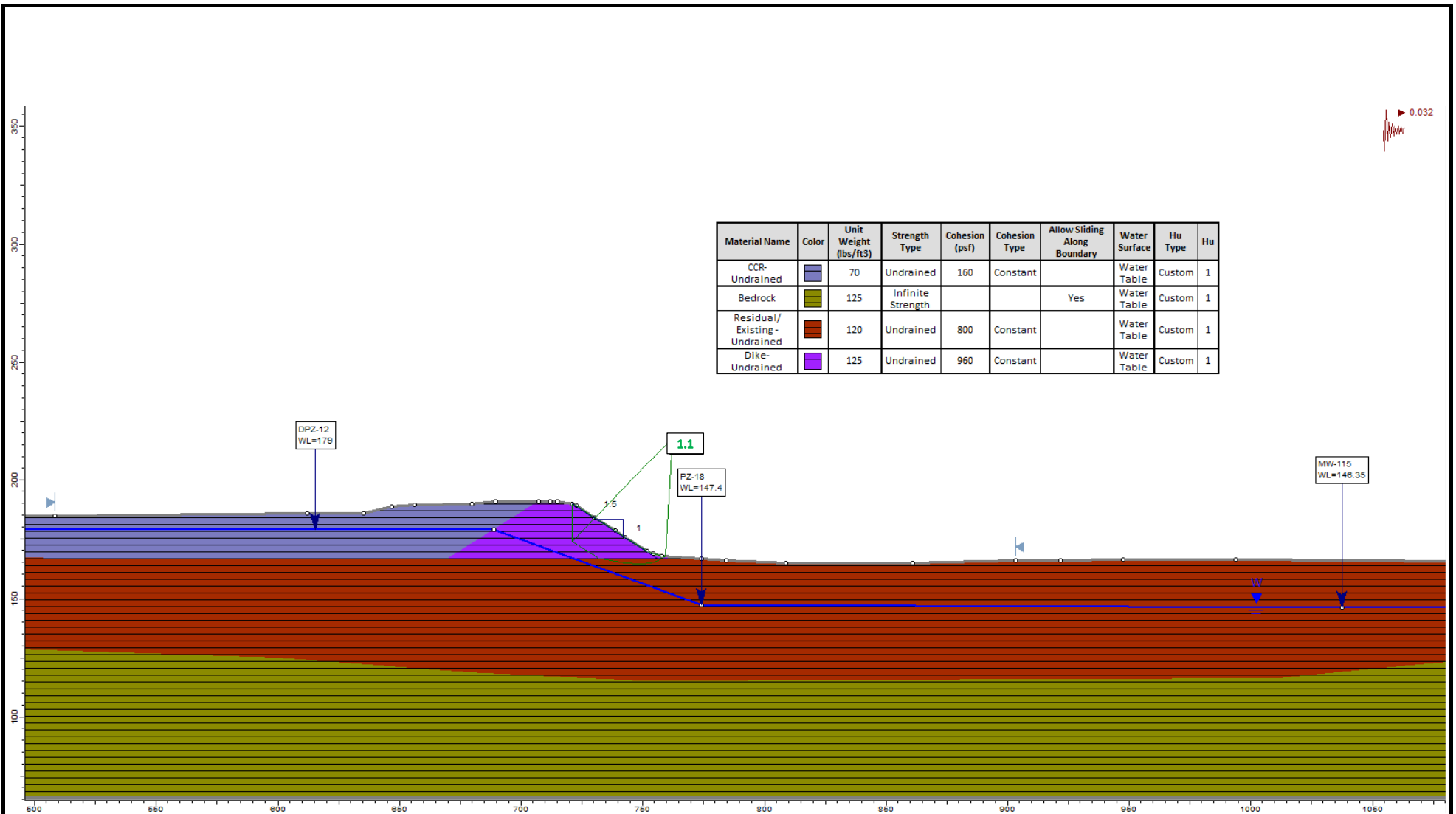
| Material Name               | Color      | Unit Weight (lbs/ft <sup>3</sup> ) | Strength Type     | Cohesion (psf) | Phi (°) | Allow Sliding Along Boundary | Water Surface | Hu Type | Hu |
|-----------------------------|------------|------------------------------------|-------------------|----------------|---------|------------------------------|---------------|---------|----|
| Residual/Existing - Drained | Yellow     | 120                                | Mohr-Coulomb      | 250            | 18      |                              | Water Table   | Custom  | 1  |
| CCR - Drained               | Grey       | 70                                 | Mohr-Coulomb      | 0              | 24      |                              | Water Table   | Custom  | 1  |
| Bedrock                     | Green      | 125                                | Infinite Strength |                |         | Yes                          | Water Table   | Custom  | 1  |
| Dike - Drained              | Light Blue | 125                                | Mohr-Coulomb      | 150            | 30      |                              | Water Table   | Custom  | 1  |

|                                                                                     |                               |          |                    |                                  |     |
|-------------------------------------------------------------------------------------|-------------------------------|----------|--------------------|----------------------------------|-----|
|  | SCALE                         | AS SHOWN | PROJECT            | Plant Mitchell Ash Pond-1 (AP-1) |     |
|                                                                                     | DATE                          | Feb 2026 | TITLE              | Section C-C'                     |     |
|                                                                                     | MADE BY                       | PG       | ANALYSIS CONDITION |                                  |     |
|                                                                                     | CAD                           | -        | CLIENT             | Southern Company Services        |     |
| FILE                                                                                | INITIAL FACTOR OF SAFETY AP-1 | CHECK    | AF                 | FIGURE                           | C-1 |
| PROJECT No.                                                                         | US0037149.0170                | REVIEW   | RM                 |                                  |     |



| Material Name                | Color       | Unit Weight (lbs/ft3) | Strength Type     | Cohesion (psf) | Phi (°) | Allow Sliding Along Boundary | Water Surface | Hu Type | Hu |
|------------------------------|-------------|-----------------------|-------------------|----------------|---------|------------------------------|---------------|---------|----|
| Residual/ Existing - Drained | Yellow      | 120                   | Mohr-Coulomb      | 250            | 18      |                              | Water Table   | Custom  | 1  |
| CCR - Drained                | Grey        | 70                    | Mohr-Coulomb      | 0              | 24      |                              | Water Table   | Custom  | 1  |
| Bedrock                      | Olive Green | 125                   | Infinite Strength |                |         | Yes                          | Water Table   | Custom  | 1  |
| Water                        | Blue        | 62.4                  | No Strength       |                |         |                              | Water Table   | Custom  | 1  |
| Dike - Drained               | Light Blue  | 125                   | Mohr-Coulomb      | 150            | 30      |                              | Water Table   | Custom  | 1  |

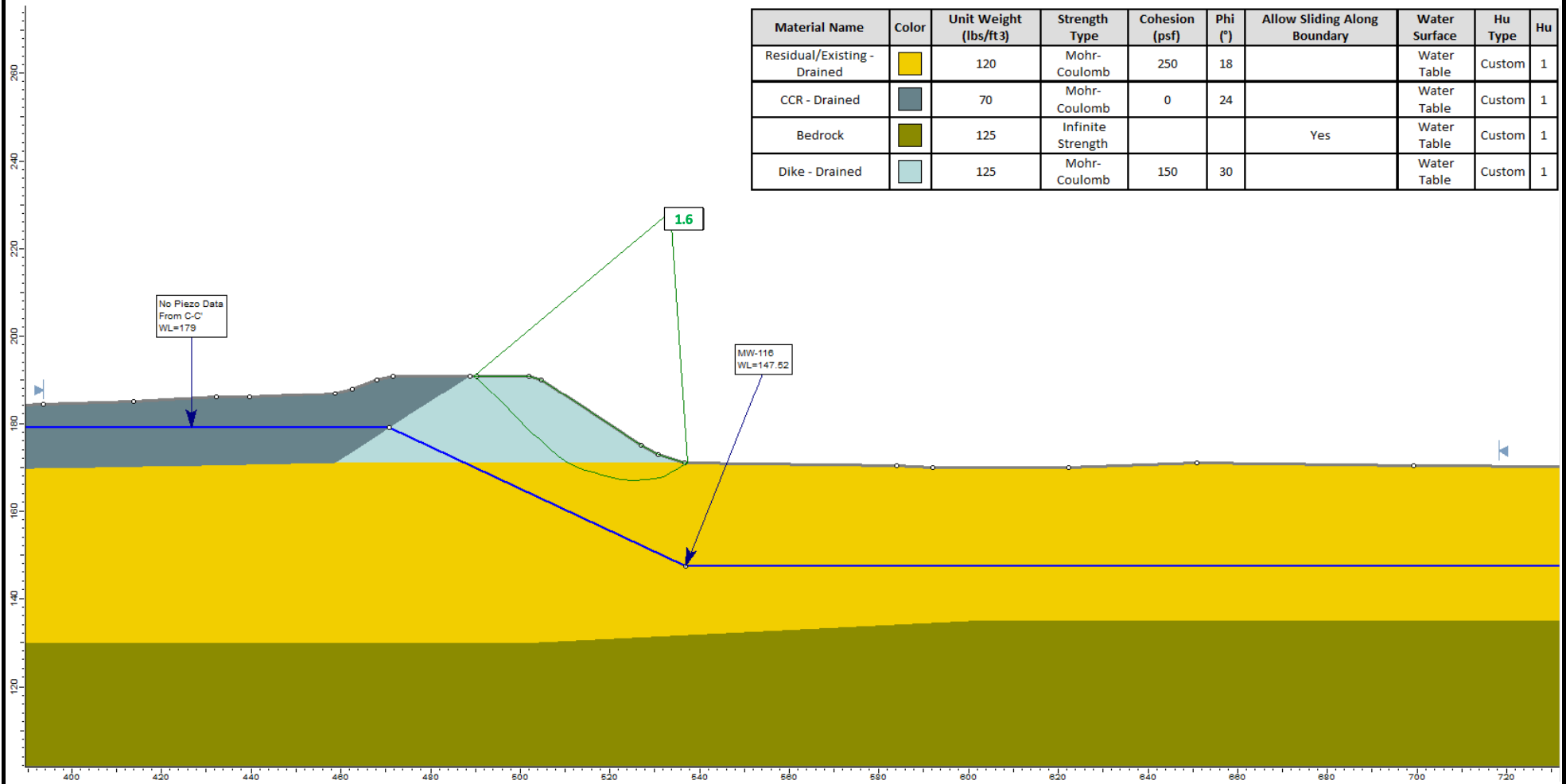
|                                                                                     |                               |          |                    |                                  |    |
|-------------------------------------------------------------------------------------|-------------------------------|----------|--------------------|----------------------------------|----|
|  | SCALE                         | AS SHOWN | PROJECT            | Plant Mitchell Ash Pond-1 (AP-1) |    |
|                                                                                     | DATE                          | Feb 2026 | TITLE              | Section C-C'                     |    |
|                                                                                     | MADE BY                       | PG       | ANALYSIS CONDITION |                                  |    |
|                                                                                     | CAD                           | -        | CLIENT             | Southern Company Services        |    |
| FILE                                                                                | INITIAL FACTOR OF SAFETY AP-1 | CHECK    | AF                 |                                  |    |
| PROJECT No.                                                                         | US0037149.0170                | REV.     | 0                  | REVIEW                           | RM |



| Material Name               | Color | Unit Weight (lbs/ft <sup>3</sup> ) | Strength Type     | Cohesion (psf) | Cohesion Type | Allow Sliding Along Boundary | Water Surface | Hu Type | Hu |
|-----------------------------|-------|------------------------------------|-------------------|----------------|---------------|------------------------------|---------------|---------|----|
| CCR-Undrained               |       | 70                                 | Undrained         | 160            | Constant      |                              | Water Table   | Custom  | 1  |
| Bedrock                     |       | 125                                | Infinite Strength |                |               | Yes                          | Water Table   | Custom  | 1  |
| Residual/Existing-Undrained |       | 120                                | Undrained         | 800            | Constant      |                              | Water Table   | Custom  | 1  |
| Dike-Undrained              |       | 125                                | Undrained         | 960            | Constant      |                              | Water Table   | Custom  | 1  |

Note: Hatching indicates material properties discounted by 20% to account for dynamic excess pore pressures.

|             |                               |          |                    |                                  |     |
|-------------|-------------------------------|----------|--------------------|----------------------------------|-----|
|             | SCALE                         | AS SHOWN | PROJECT            | Plant Mitchell Ash Pond-1 (AP-1) |     |
|             | DATE                          | Feb 2026 | TITLE              | Section C-C'                     |     |
|             | MADE BY                       | PG       | ANALYSIS CONDITION |                                  |     |
|             | CAD                           | -        | CLIENT             | Southern Company Services        |     |
| FILE        | INITIAL FACTOR OF SAFETY AP-1 | CHECK    | AF                 | FIGURE                           | C-3 |
| PROJECT No. | US0037149.0170                | REVIEW   | RM                 |                                  |     |



| Material Name               | Color      | Unit Weight (lbs/ft <sup>3</sup> ) | Strength Type     | Cohesion (psf) | Phi (°) | Allow Sliding Along Boundary | Water Surface | Hu Type | Hu |
|-----------------------------|------------|------------------------------------|-------------------|----------------|---------|------------------------------|---------------|---------|----|
| Residual/Existing - Drained | Yellow     | 120                                | Mohr-Coulomb      | 250            | 18      |                              | Water Table   | Custom  | 1  |
| CCR - Drained               | Dark Blue  | 70                                 | Mohr-Coulomb      | 0              | 24      |                              | Water Table   | Custom  | 1  |
| Bedrock                     | Green      | 125                                | Infinite Strength |                |         | Yes                          | Water Table   | Custom  | 1  |
| Dike - Drained              | Light Blue | 125                                | Mohr-Coulomb      | 150            | 30      |                              | Water Table   | Custom  | 1  |



SCALE AS SHOWN  
 DATE Feb 2026  
 MADE BY PG  
 CAD -

PROJECT Plant Mitchell Ash Pond-1 (AP-1)

TITLE Section D-D'

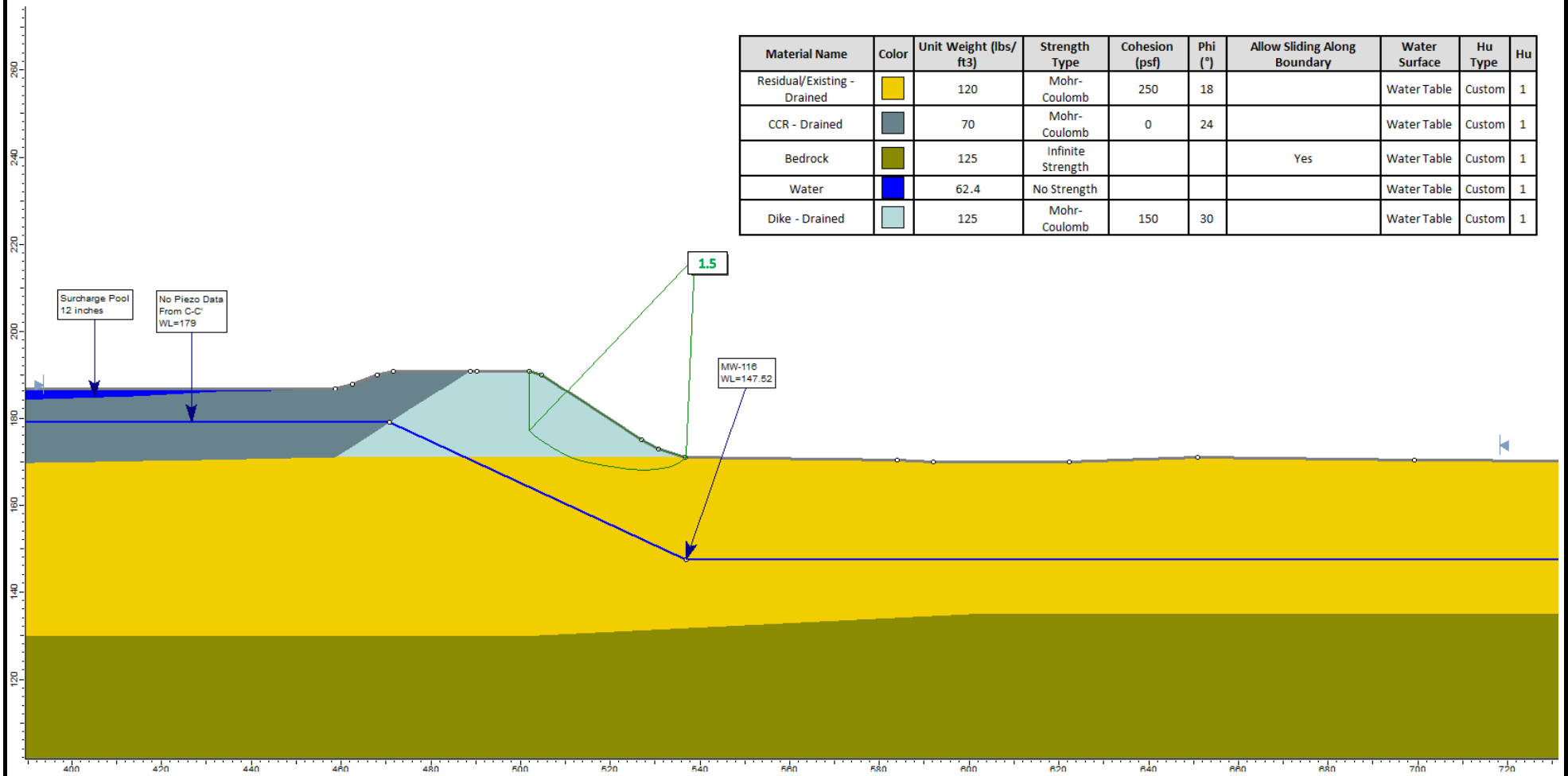
ANALYSIS CONDITION Long Term - Drained - Storage Pool

FILE INITIAL FACTOR OF SAFETY AP-1  
 PROJECT No. US0037149.0170 REV. 0

CHECK AF  
 REVIEW RM

CLIENT Southern Company Services

FIGURE D-1



SCALE AS SHOWN

DATE Feb 2026

MADE BY PG

CAD -

PROJECT Plant Mitchell Ash Pond-1 (AP-1)

TITLE Section D-D'

ANALYSIS CONDITION Long Term - Drained - Surcharge Pool

FILE INITIAL FACTOR OF SAFETY AP-1

CHECK AF

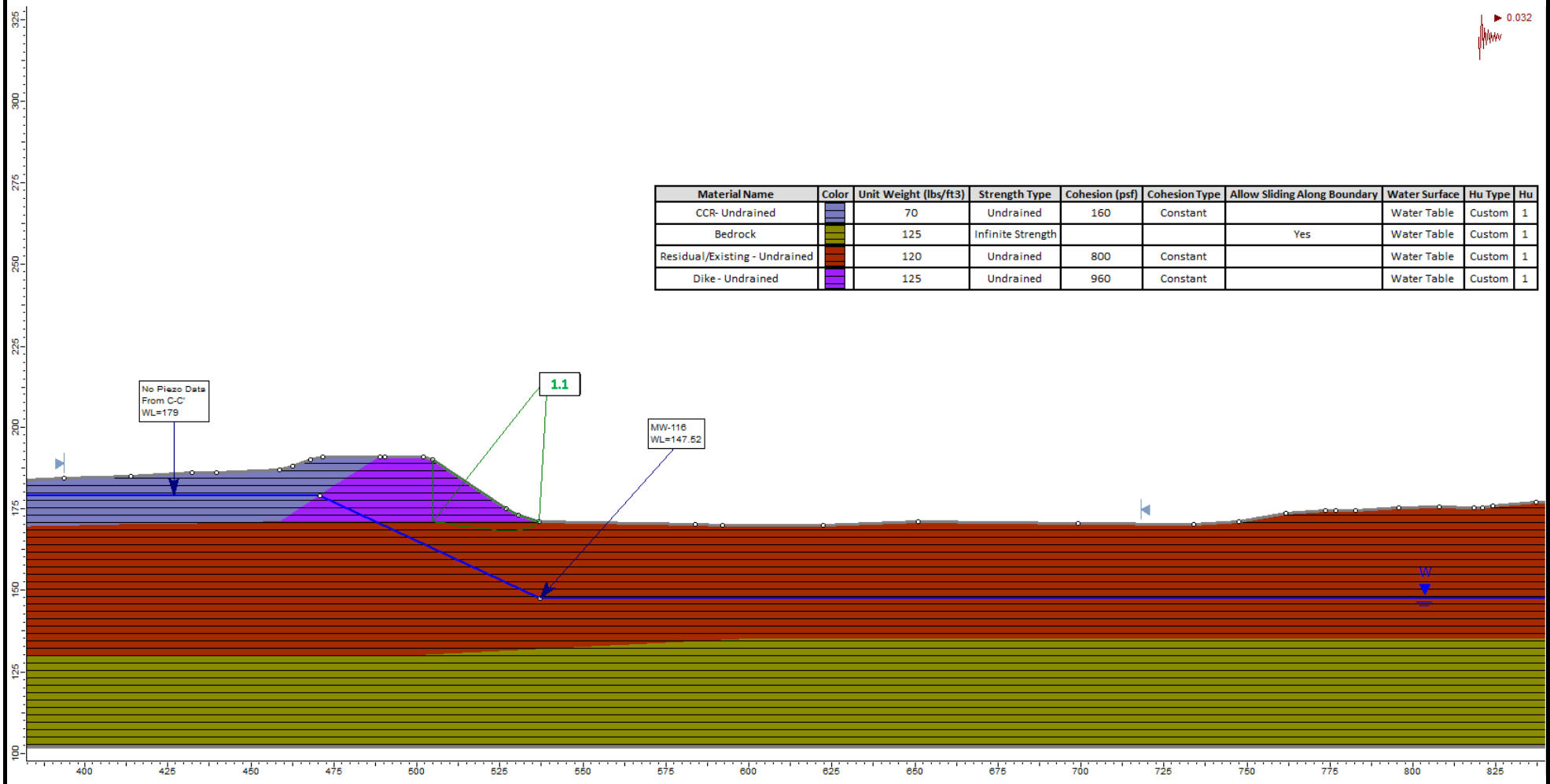
CLIENT Southern Company Services

FIGURE D-2

PROJECT No. US0037149.0170


REV. 0

REVIEW RM



| Material Name                 | Color    | Unit Weight (lbs/ft3) | Strength Type     | Cohesion (psf) | Cohesion Type | Allow Sliding Along Boundary | Water Surface | Hu Type | Hu |
|-------------------------------|----------|-----------------------|-------------------|----------------|---------------|------------------------------|---------------|---------|----|
| CCR- Undrained                | [Blue]   | 70                    | Undrained         | 160            | Constant      |                              | Water Table   | Custom  | 1  |
| Bedrock                       | [Green]  | 125                   | Infinite Strength |                |               | Yes                          | Water Table   | Custom  | 1  |
| Residual/Existing - Undrained | [Red]    | 120                   | Undrained         | 800            | Constant      |                              | Water Table   | Custom  | 1  |
| Dike - Undrained              | [Purple] | 125                   | Undrained         | 960            | Constant      |                              | Water Table   | Custom  | 1  |

Note: Hatching indicates material properties discounted by 20% to account for dynamic excess pore pressures.

|                                                                                     |                               |          |                    |                                  |   |
|-------------------------------------------------------------------------------------|-------------------------------|----------|--------------------|----------------------------------|---|
|  | SCALE                         | AS SHOWN | PROJECT            | Plant Mitchell Ash Pond-1 (AP-1) |   |
|                                                                                     | DATE                          | Feb 2026 | TITLE              | Section D-D'                     |   |
|                                                                                     | MADE BY                       | PG       | ANALYSIS CONDITION |                                  |   |
|                                                                                     | CAD                           | -        | CLIENT             | Southern Company Services        |   |
| FILE                                                                                | INITIAL FACTOR OF SAFETY AP-1 | CHECK    | AF                 |                                  |   |
| PROJECT No.                                                                         | US0037149.0170                | REVIEW   | RM                 | REV.                             | 0 |

**APPENDIX E**

# Liquefaction Screening

Compositional Screening Criteria (Bray and Sancio, 2006)

