DRAINAGE REPORT

LEVY BORROW PIT

LEVY COUNTY, FLORIDA

Prepared for:

Anderson Columbia Co., Inc.

Prepared by:

Kimley-Horn and Associates, Inc.

242202000 May 2025 © Kimley-Horn and Associates, Inc. 800 SW 2nd Avenue, Suite 100 Gainesville, Florida 32601 352 374 3274 TEL



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242202000 May 2025 © Kimley-Horn and Associates, Inc. 800 SW 2nd Avenue, Suite 100 Gainesville, Florida 32601 352 374 3274 TEL THIS IS TO CERTIFY THAT THE ENCLOSED ENGINEERING CALCULATIONS WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION.

Jose A. Lopez Jr, P.E. Florida Registration #86446 Registry #35106



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INTRODUCTION

Anderson Columbia Co., Inc., the Permittee, has been granted an Environmental Resource Permit (ERP) on February 17, 2025 to operate a proposed sand mine on Levy County Parcel ID No. 0322100200, located off State Road 24 in Unincorporated Levy County northeast of the City of Bronson. The past and current use of the subject project property is partially wooded vacant land with gate access from State Road 24. The proposed mining project area will encompass ±98.96 acres.

The mining excavations will occur in a single phase with mining depths varying depending on the quality of materials being excavated from the proposed borrow pit. Maximum mining depths shall be as specified by the Florida Department of Environmental Protection (FDEP) and Southwest Florida Water Management District (SWFWMD) rules and regulations. Per a pre-application meeting with SWFWMD held on February 8th, 2023, the maximum depth of excavation is limited to one foot above the aquitard or the top of the confining layer, whichever is higher. Hauling trucks and hauling routes will vary based on specific client needs. Upon completion of mining activities, the project site will be reclaimed according to FDEP, SWFWMD, and Levy County rules and regulations.

Access to the site will be via a proposed private driveway connecting to State Road 24. Access and Drainage Permits have been granted by the Florida Department of Transportation (FDOT) on March 6, 2025. No buildings or impervious surfaces are proposed to be constructed on the subject property other than the driveway connection to State Road 24

PERMITTEE

The following is the permittee information for the proposed project and the responsible authority for operation and maintenance.

Permittee: Anderson Columbia Co., Inc.
Mailing Address: 871 NW Guerdon Street
City, State, ZIP: Lake City, FL 32055

Phone Number: (813) 323-7203

Email Address: zeb.cheshire@andersoncolumbia.com

FLOODPLAIN

According to FEMA Flood Insurance Rate Maps (FIRM) No's: 12075C0205F and 12075C0090F, effective 11/02/2012, the proposed project area is not located within an established flood plain, refer to the Appendix for a FEMA FIRM exhibit.

WETLANDS

No wetlands are to be impacted during the proposed mining activities.



DESIGN AND METHODOLOGY

Water Table investigation

The project site is in mostly Candler Fine Sands with small areas of Orlando Fine and Astatula Fine Sands along the perimeter of the site, which are classified as well drained soils as shown on the soils map in the Appendix. Potentiometric surface DIS Data was reviewed from the Florida Geological Survey and in the 2016 contours, the potentiometric surface is indicated to be at elevation 50.0 along within the subject property (see Appendix for map). The proposed mining operations shall not penetrate elevation 52.0 which is 2-feet above the potentiometric surface elevation exceeding SWFWMD requirements. Based upon the Geotechnical Report prepared by Geotech, Inc. on May 17, 2024 (see Appendix), the estimated seasonal high ground water table (ESHGWT) was estimated to range from elevation 50.8 to 71.2. The average ESHGWT was calculated to be at elevation 64.0. It is anticipated that mining below the ESHGWT may result in seasonal ponding and is addressing the Reclamation Plan.

Water Quality and Quantity

Pre-development storm runoff patterns will be maintained during mining activities. Stormwater Best Management Practices (BMP's) shall include the maintenance of a proposed 150-setback from adjacent properties of existing residential use and a 100-foot setback from remaining adjacent property boundaries which will include provisions to allow off-site drainage runoff to continue as in the pre-development condition. No additional water quality measures are proposed for the project as any stormwater runoff will be contained on-site during mining operations. There are no impervious areas to be constructed on-site, thus the stormwater runoff rate will not increase because of the proposed mining operation. The mining operation will ultimately generate approximately 491.05 acre-feet of storm runoff storage between the ESHGWT and the lowest top of bank elevation due to resource removal from the site. The peak stage for the 100-year, 24-hour design storm event is 66.51-ft. which is approximate 5.5-ft. below the lowest point along the site perimeter (see Appendix for storm runoff calculations). Negative environmental impacts resulting from mining operations are not expected.

Erosion Control and Maintenance

The proposed 150-setback from existing residential abutting properties and a 100-foot setback from all other abutting properties will serve to prevent sediment from washing off-site. No dewatering activities are anticipated for the project. Water trucks will be utilized regularly for dust control.



APPENDICES



STORM WATER CALCULATIONS

PR-Borrow Pit DRAINAGE BASIN PROPOSED CONDITION CURVE NUMBER CALCULATIONS

Total Area: 203.60 AC

Total DCIA Area: 59.41 AC

Percent (%) DCIA of Area: 29.18%

Total Weighted CN Area: 203.60 AC

Weighted Curve Number: 56.22

Land Use Description Area			% DCIA	% Impervious	% Pervious	
Open Space, Type "A" Soil	144.19	AC	0.0% DCIA	0.0% Impervious	100.0% Pervious	
Borrow Pit	59.41	AC	100.0% DCIA	0.0% Impervious	0.0% Pervious	
TOTAL AREA>	203.60	AC				

		DCIA		_
	% LAND	AREA		
	USED	(AC)	C.N.	_
Open Space, Type "A" Soil	0%	0.00	100	Ī
Borrow Pit	100%	59.41	100	Percent (%) DCIA
TOTAL>		59.41		of Area = 29.18%

	WEIGHTED C.N.				
	% LAND	AREA	%		
	USED	(AC)	AREA	C.N.	%XC.N.
Open Space, Type "A" Soil	100%	144.19	70.8%	39	27.62
Borrow Pit	0%	59.41	29.2%	98	28.60
TOTAL	>	203.60	100%		56.22

PR-Borrow Pit

PROPOSED CONDITION AREA & STAGE-STORAGE VOLUME

	Stor. Vol.	Stor. Vol.	Area	Area	Stage
	(ac-ft)	(cf)	(sf)	(ac)	(ft)
ESHGWT	0.00	0	2588030	59.41	64.00
	59.66	2598749	2609468	59.91	65.00
	119.81	5218937	2630906	60.40	66.00
	180.45	7860562	2652344	60.89	67.00
	241.59	10523625	2673782	61.38	68.00
	303.22	13208126	2695220	61.87	69.00
	365.34	15914065	2716658	62.37	70.00
	427.95	18641443	2738096	62.86	71.00
TOB	491.05	21390258	2759534	63.35	72.00

Stage-Storage Volume @ T.O.B. 72.00 = 491.05 ac-ft

100-24 Design Storm Peak Stage = 66.51 ft

PR-Borrow Pit SJRWMD 100-24 RAINFALL EVENT STORM RUNOFF CALCULATIONS

Total Runoff Volume = 151.53 ac-ft

Rainfall Intensity = 11.50 inches

Total DCIA Area (excluding Pond) = 59.41 AC

Total Weighted CN Area: 203.60 AC

Weighted Curve Number: 56.22

DCIA Runoff Volume in Acre-Feet

V = 59.41 x 11.50 x 1/12 inches/ft

V = 56.94 acre-feet

Based on SCS Runoff Curve Number Method

Runoff in Inches

S = <u>1,000</u> - 10 S = 7.79 56.22

Q = [11.50 -0.2 x 7.79]^2 11.50 +0.8 x 7.79

<u>Q = 5.58 inches</u>

Runoff Volume in Acre-feet

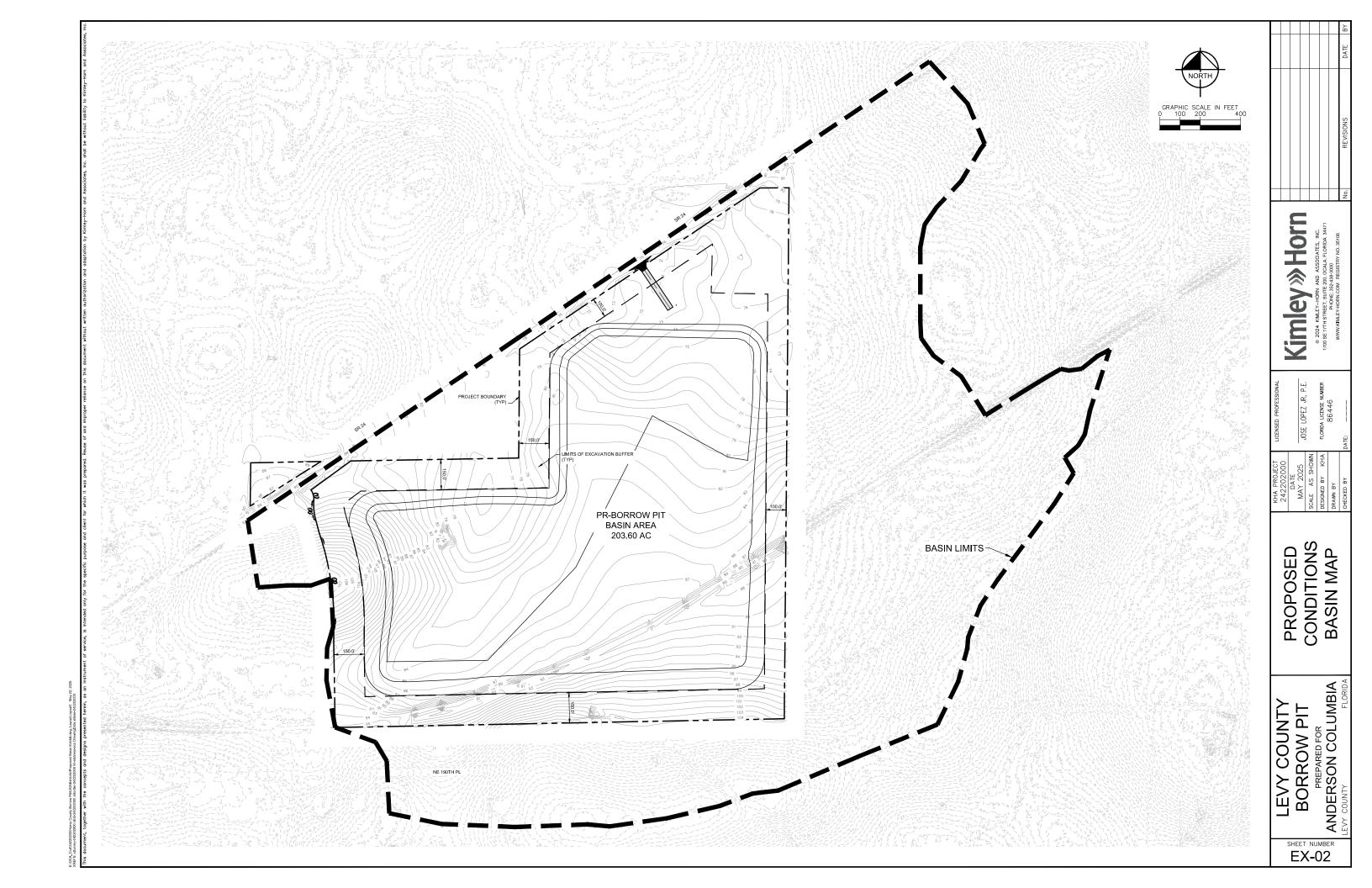
V = 203.60 x 5.58 x 1/12 inches/ft

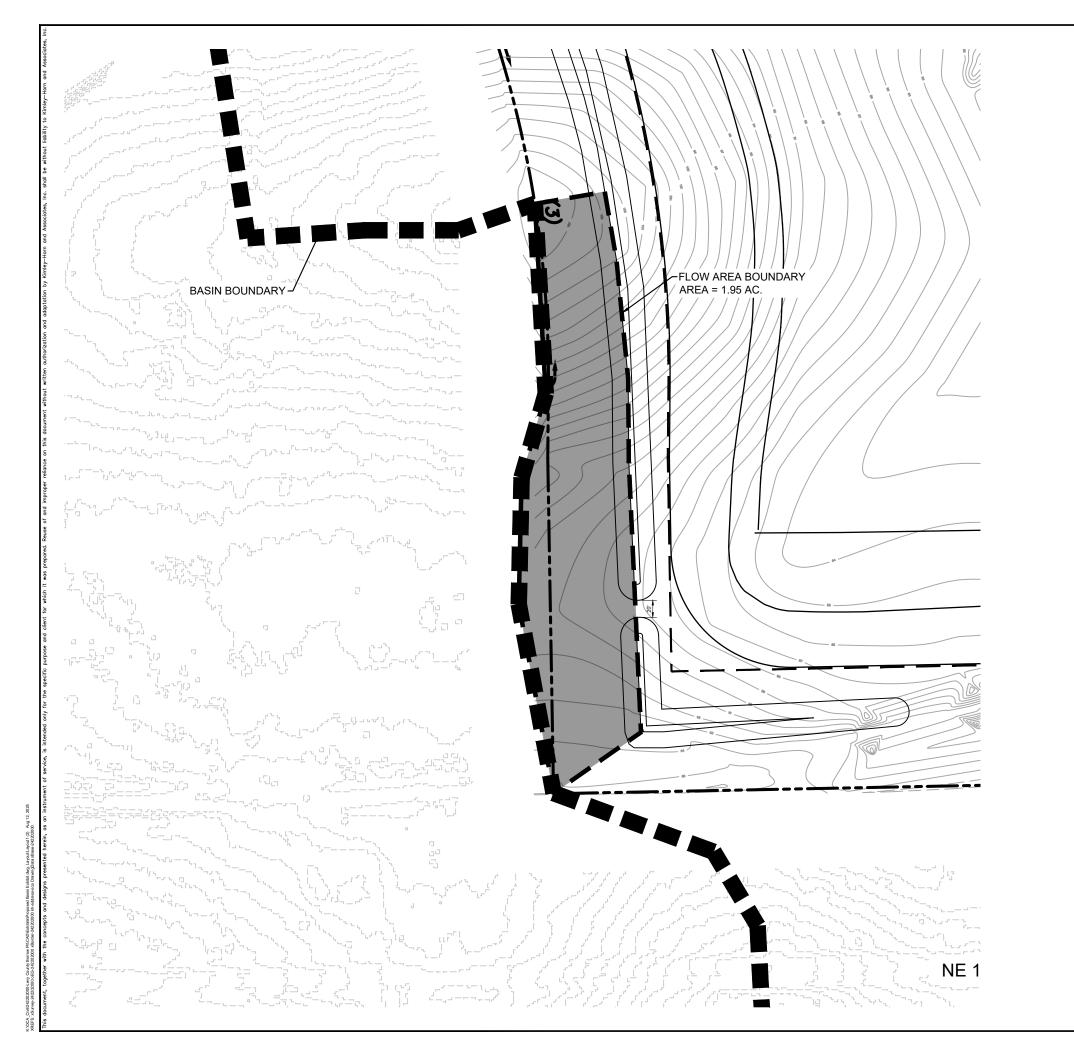
V = 94.59 acre-feet

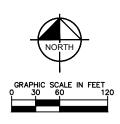
DCIA Runoff Volume = 56.94 acre-feet

Runoff Volume = 94.59 acre-feet

Total Runoff Volume ac-ft = 151.53 acre-feet







- RUNOFF CALCULATIONS:

 RATIONAL METHOD: Q=CiA= 4.18 cfs

 A= 1.95 ACRES

 i= 7.14 IN/HR (10 YR/10 MIN DESIGN STORM)

 C=0.3

			DATE	
			REVISIONS	
			ò.	

Kimley » Horn

BERM FLOW CALCULATIONS

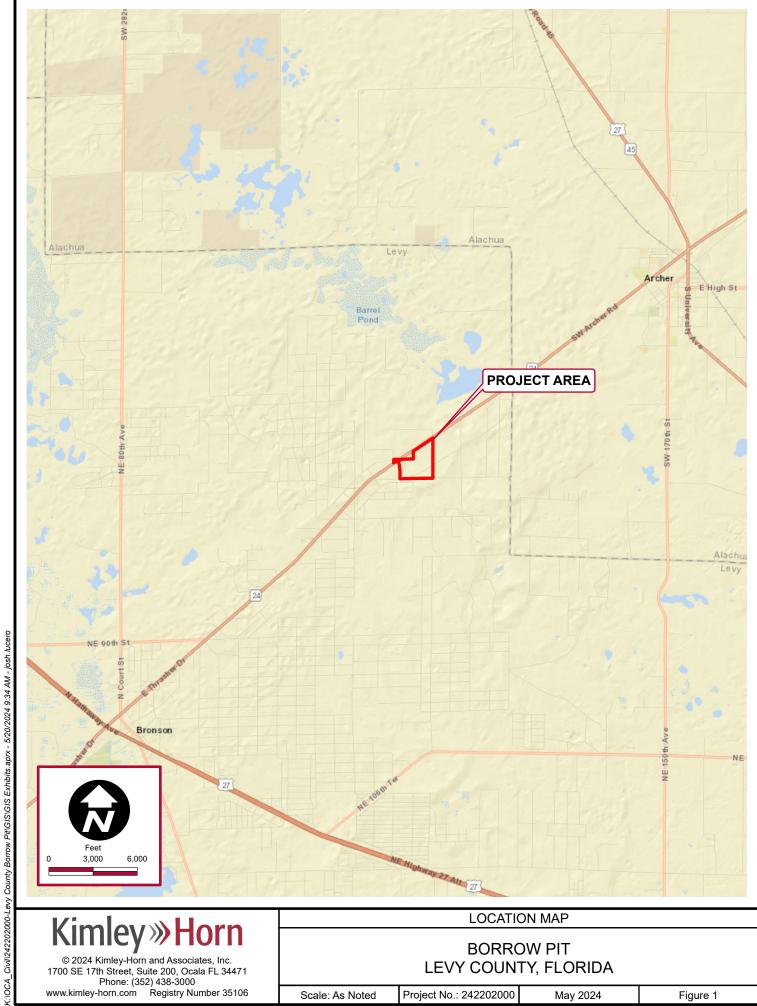
BORROW PIT
PREPARED FOR
ANDERSON COLUMBIA

SHEET NUMBER

EX-03



MAP FIGURES





BORROW PIT LEVY COUNTY, FLORIDA

Scale: As Noted Project No.: 242202000

May 2024

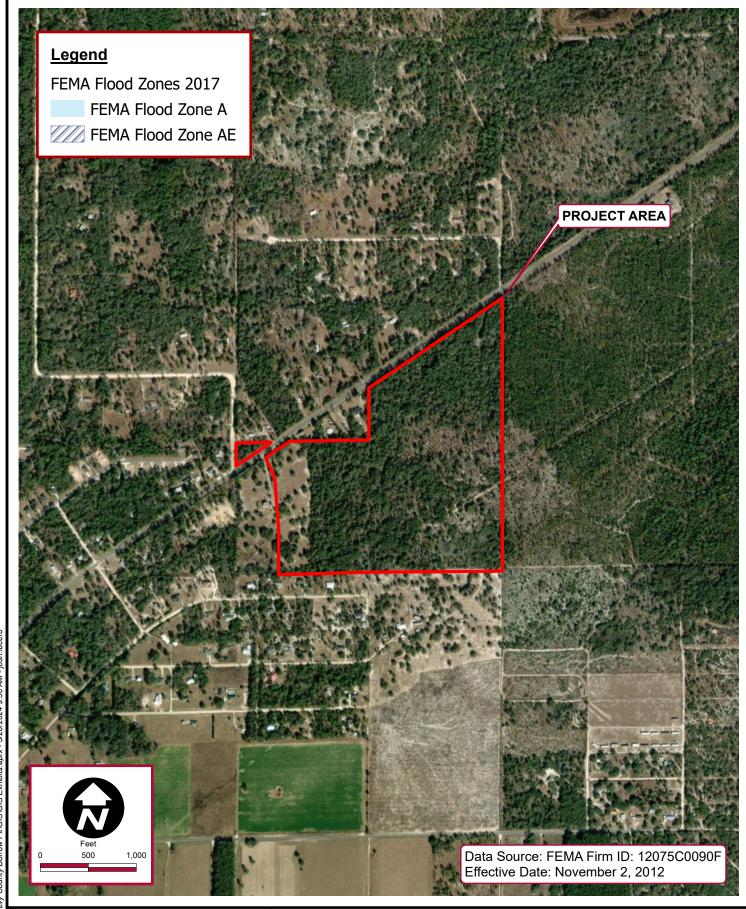
Figure 1



AERIAL MAP

BORROW PIT LEVY COUNTY, FLORIDA

Project No.: 242202000 Scale: As Noted May 2024 Figure 2



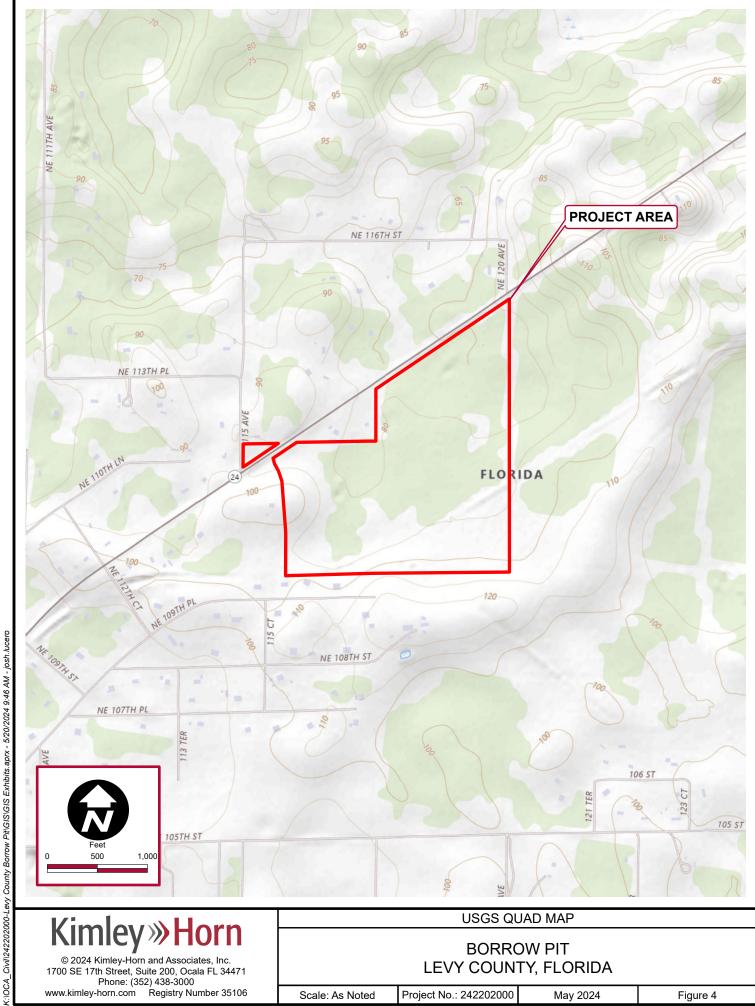


© 2024 Kimley-Horn and Associates, Inc. 1700 SE 17th Street, Suite 200, Ocala FL 34471 Phone: (352) 438-3000 www.kimley-horn.com Registry Number 35106 FEMA FLOOD MAP

BORROW PIT LEVY COUNTY, FLORIDA

Figure 3

Scale: As Noted Project No.: 242202000 May 2024



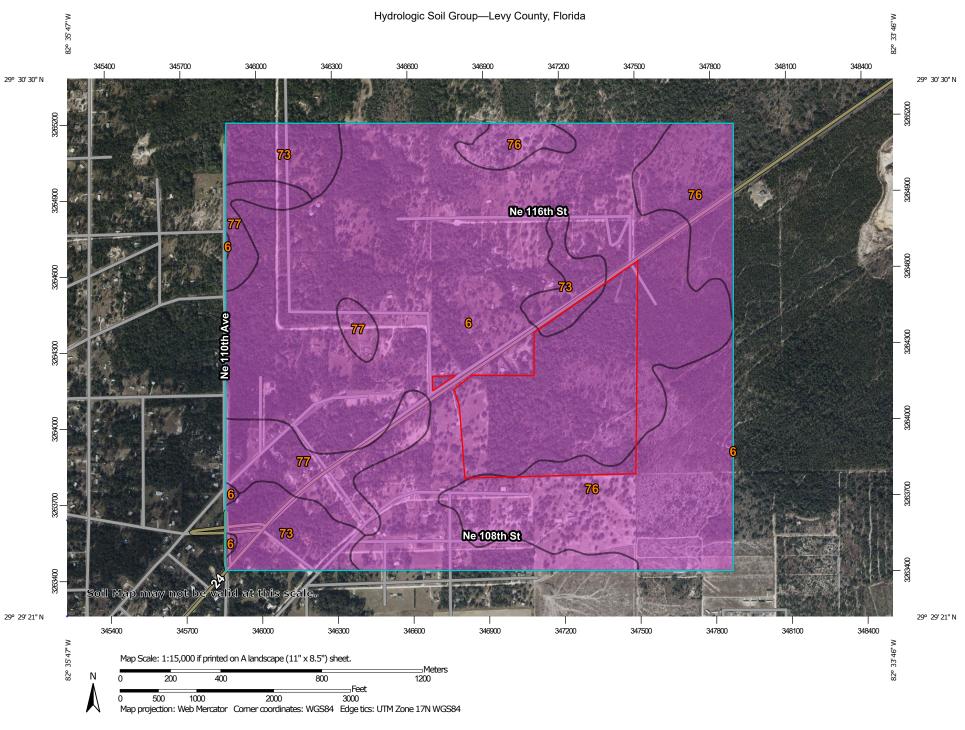
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BORROW PIT LEVY COUNTY, FLORIDA

Scale: As Noted Project No.: 242202000

May 2024

Figure 4



MAP LEGEND MAP INFORMATION The soil surveys that comprise your AOI were mapped at Area of Interest (AOI) С 1:24.000. Area of Interest (AOI) C/D Soils Warning: Soil Map may not be valid at this scale. D **Soil Rating Polygons** Enlargement of maps beyond the scale of mapping can cause Not rated or not available Α misunderstanding of the detail of mapping and accuracy of soil **Water Features** line placement. The maps do not show the small areas of A/D contrasting soils that could have been shown at a more detailed Streams and Canals Transportation B/D Rails ---Please rely on the bar scale on each map sheet for map measurements. Interstate Highways C/D Source of Map: Natural Resources Conservation Service **US Routes** Web Soil Survey URL: D Major Roads Coordinate System: Web Mercator (EPSG:3857) Not rated or not available -Local Roads Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts Soil Rating Lines Background distance and area. A projection that preserves area, such as the Aerial Photography Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required. This product is generated from the USDA-NRCS certified data as of the version date(s) listed below. Soil Survey Area: Levy County, Florida Survey Area Data: Version 20, Sep 6, 2023 Soil map units are labeled (as space allows) for map scales 1:50,000 or larger. Not rated or not available Date(s) aerial images were photographed: Jan 9, 2022—Feb 10, 2022 **Soil Rating Points** The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background A/D imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident. B/D

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
6	Candler fine sand, 1 to 5 percent slopes	A	546.3	62.0%
73	Orlando fine sand, 1 to 5 percent slopes	A	80.8	9.2%
76	Astatula fine sand, 1 to 8 percent slopes	A	187.1	21.2%
77	Candler fine sand, 5 to 8 percent slopes	А	66.3	7.5%
Totals for Area of Intere	est	880.4	100.0%	

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

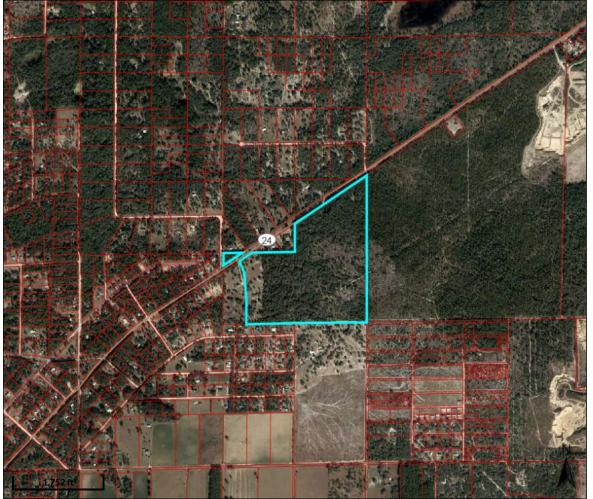
Aggregation Method: Dominant Condition
Component Percent Cutoff: None Specified

Tie-break Rule: Higher



PROPERTY OWNERSHIP

levy County, FL



Overview

Legend

Parcels
Roads
City Labels

Parcel ID 0322100200
Property Use 6000 - PASTURE
LAND 1
Taxing SW FLORIDA WT

SW FLORIDA WT MG 99.0 Physical Address

Mailing

Address

11986 NE STATE ROAD 24 UNIT TOWER ARCHER JOHNS MILDRED M

2795 SEMINOLE VILLAGE DR MIDDLEBURG FL 32068-5825 **Building Value** \$0 Last 2 Sales **Extra Feature** \$0 Date Price Reason Qual Value 0 n/a n/a n/a Market Land \$698,360 n/a n/a n/a Value Ag Land Value \$74,100 Just Value \$698,360 Assessed Value \$74,100

\$74,100

Taxable Value

Date created: 3/4/2024 Last Data Uploaded: 3/1/2024 7:47:18 PM

District

Acres





SURVEY

IIIU8

Γ∀KE CILA` LΓ□BID∀` 35052 I⊄38 2∧ W∀IN BΓ∧D` Γ∀ND 2∩BΛELDB2 ∀ND W∀ЬЬEB2` Γ'B' # 8010

FVND 2016/SEADS VND WAPPERS, L.B. # 8016

BRITT SURVEYING

BRITT SURVEYING

WID MADER LIES BEWAING RICLICH EI'RE DE IME IS LOB INCOUNTIONN' EINBEZE DIN'S WID IS NOL ANTIE DIE INFERS IN BEWE IN DEVIEWN'S ROWLINGE WID INCOUNTED BEW'S U.S. I L'OBBIN TICKNEED BRACEOUS LIET BEWELS, MYLE. BEWAING DULL. C'2001 BOLLL' 16'8M.

I NEKER CERTIFY THAT THIS SURVEY WAS MADE OUDER MY RESPONSIBLE CHANGE AND MEETS THE MINIMAN TECHNICAL STANDARDS AS SET FORTH BY THE FLORIDA MOMED OF PROFESSIONAL SURVEYBRS AND MAPPERS THE MINIMAN ASSESSION OF THE SURVEY WAS MADE OUDER WY RESPONSIBLE CHANGE AND MEETS THE MINIMAN

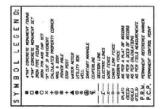
MOLLVOLHLIBBO SUBDLENON

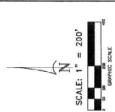
DB NUMBER, L-29188

FIELD BOOK SEE PAGE(S) FILE

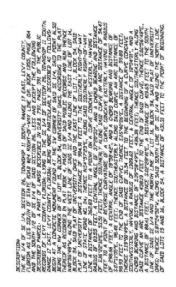
WINDERSON COLUMNIA COL INC.
CERTIFIED TO:

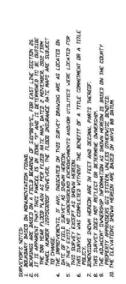
SHEET

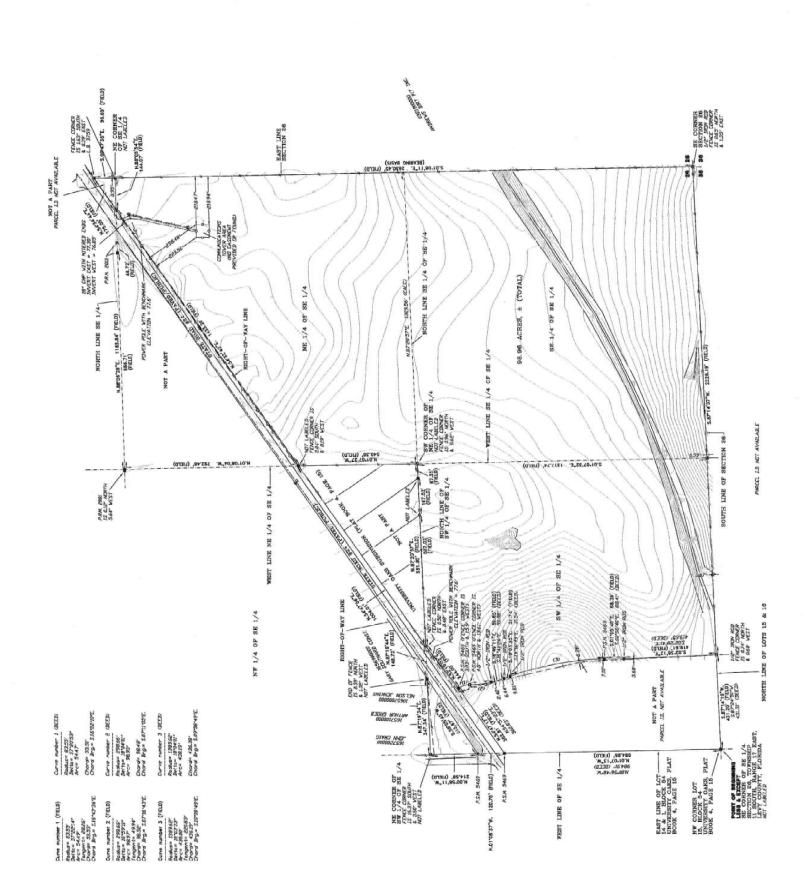




A BOUNDARY & TOPOGRAPHIC SURVEY IN.
SECTION 26, TOWNSHIP 11 SOUTH, RANGE 17 EAST,
LEVY COUNTY, FLORIDA









GEOTECHNICAL REPORT



ENGINEERING CONSULTANTS IN GEOTECHNICAL • ENVIRONMENTAL • CONSTRUCTION MATERIALS TESTING

May 16, 2024 Project No. 23-264.29.1

Zeb Cheshire Anderson Columbia Company, Inc. P.O. Box 1829 Lake City, Florida 32056

Reference: Proposed Borrow Pit, Parcel No. 0322100200, NE State Road 24, Archer, Florida

Preliminary Geotechnical Site Evaluation

Dear Mr. Cheshire:

Geo-Technologies, Inc. (Geo-Tech) completed a preliminary geotechnical evaluation of the project site as requested by you. Services were conducted in accordance with portions of Geo-Tech Proposal No. 13032 Revision B dated February 15, 2023.

Our findings and preliminary evaluations are presented in the following report. Generally accepted soils and foundation engineering practices were employed in the preparation of this report.

Geo-Tech appreciates the opportunity to provide our services for this project. Should you have any questions regarding the contents of this report or if we may be of further assistance, please do not hesitate to contact the undersigned.

Sincerely,

Grady N. Polk, E.I. Staff Engineer

GNP/CAH

Purposes

Purposes of this preliminary evaluation were to characterize subsurface soils conditions at the site to provide our findings.

Site Description

The site is located at Parcel No. 0322100200 on the south side of NE State Road 24 in Archer, Florida. The site was covered with native trees and grasses at the time of drilling.

Field Exploration Program

Field exploration services for this geotechnical site evaluation consisted of the following:

- Thirteen (13) direct push borings to depths of approximately thirty-five (35) feet below existing site grade in accessible areas of the site (ASTM D6282 [disc.]). Direct push borings were performed on April 30, 2023.
- Four (4) laboratory vertical permeability tests on soil samples retrieved from the proposed drainage retention areas soil borings. Laboratory permeability testing was performed on May 5, 2023.

Boring locations were provided by Kimley-Horn on their Soil Boring Location Map dated March 2023.

Sampling & Testing Descriptions

Direct Push Boring

Direct push borings were performed in accordance with discontinued ASTM D6282. This direct push sampling method consists of advancing a sampling device into subsurface soils by applying static pressure, impacts, vibration, or any combination thereof, to the sampler extensions until the sampler has been advanced to the desired depth. The sampler is recovered from the borehole and removed from the sampler. Sampling can be continuous or incremental for specific sampling.

Soil samples recovered during the performance of our direct push borings were transported to our laboratory for further analysis.

Gradation (-200) Testing

Gradation (-200) testing is used to determine the percentage of fine material in a soil sample by washing over a seventy-five (75) μm (No. 200) sieve. Clay and other particles dispersed by washing, as well as water-soluble materials, are removed from the soil sample during testing. The loss in mass resulting from washing is calculated as mass percent of the original sample. This value is reported as the percentage of material finer than a seventy-five (75) μm (No. 200) sieve.

Findings

General subsurface conditions found in borings are graphically presented on the soil profiles in Appendix I. Horizontal lines depicted on the soil profiles designate interfaces between differing materials and represent approximate boundaries.



Soils found in borings SB-01, SB-02, SB-03 and SB-06 thru SB-13 generally consisted of a surficial layer of fine sand ranging from approximately eleven and one-half (11 ½) to twenty-four (24) feet thick underlain by clayey sand to the depths drilled.

Soils found in boring SB-04 generally consisted of a surficial layer of fine sand approximately thirteen (13) feet thick underlain by clayey sand, slightly sandy clay and limestone to the depth drilled.

Soils found in boring SB-05 generally consisted of a surficial layer of fine sand approximately fourteen (14) feet thick underlain by clayey sand and slightly sandy clay to the depth drilled.

Groundwater was not found in our borings at the time of drilling.

Seasonal High Water Table Levels

Estimated seasonal high water table levels were found in our borings at depths ranging from approximately eleven and one-half (11 ½) to thirty-two and one-half (32 ½) feet below existing site grade. Estimated seasonal high water table levels are indicated on the soil profiles at the appropriate depths.

Confining Layers

Confining layers were not found in borings SB-01, SB-02. SB-03 and SB-06 thru SB-13 within the depths drilled. Confining layers were found in borings SB-04 and SB-05 at depths ranging from approximately nineteen (19) to twenty-eight (28) feet below existing site grade. Confining layers are indicated on the soil profiles at the appropriate depths.

Permeability

Laboratory vertical permeability tests were performed on soil samples retrieved from soil borings SB-01, SB-02, SB-06 and SB-10 performed at depths of approximately four (4) feet below existing site grade.

Resulting coefficients of vertical permeability are noted on the soil profiles presented in Appendix I and in Table 1 below.

Table 1 Permeability Testing Results

Boring No.	Depth of Test (feet)	Kv Rate (feet/day)
SB-01	4.0	32.13
SB-02	4.0	43.34
SB-06	4.0	21.72
SB-10	4.0	33.42



Measured permeability rates should not be used for design purposes without an appropriate safety factor. Actual exfiltration rates will depend on many factors such as groundwater mounding, siltation, construction technique and the amount of soil compaction.

Gradation (-200) Testing Results

Fine sand and clayey sand soils found in the soil borings performed yielded passing fines ranging from one and one-tenth (1.1) to thirty-seven (37) percent on the samples tested. We refer you to the soil profiles presented in Appendix I for the various soils found.

Preliminary Evaluations

Surficial fine sand soils found in our borings appear to be suitable material for pavement construction and conventional foundation systems.

Clayey sand soils found in our borings are typically not used as structural fill material due to the inherent moisture retention and the natural weight of the material which makes compaction requirements difficult to achieve. However, clayey soils can be utilized for non-structural grading as desired.

Closure/General Qualifications

The scope of this report is limited to this specific project. Preliminary evaluations submitted in this report are based on our findings from the soil borings, gradation testing and laboratory permeability testing performed. Soil, limestone and groundwater conditions may vary between boring locations. These variations were not taken into consideration for this report.



APPENDIX I SOIL PROFILES

Project: BORROW PIT, PID NO. 0322100200, NE SR 24, ARCHER, FL

Boring Location: (SEE BORING LOCATION MAP)

Client: ANDERSON COLUMBIA COMPANY, INC.

Project No: 23-264.29.1

Engineer: NJH/CAH

Enclosure: BORING MAP



1016 SE 3rd Avenue Ocala, Florida 352.694.7711 WWW.GEOTECHFL.COM

Depth (ft)	Symbol	Description	Depth/Elev.	Number	Remarks
		Ground Surface	0.0		
0 1 2 3 4 5 6 7 8 10 11		FINE SAND BROWN FINE SAND (SP) % PASS -200 AT APPROX. 10.0 FEET = 2.2		1	LABORATORY VERTICAL PERMEABILITY RATE AT APPROX. 4.0 FEET = 32.13 FEET/DAY
13- 14-					
14			14.5		ESHWTL AT APPROX. 14.5 FEET
15- 16- 17- 18- 19- 20- 21- 22- 23- 24- 25- 26- 27- 28- 29- 30- 31- 32- 33-	/	CLAYEY SAND YELLOWISH BROWN AND GREY CLAYEY SAND (SC) % PASS -200 AT APPROX. 16.0 FEET = 17		2	
34 35			35.0		CONFINING LAYER GREATER THAN DEPTH
36 37		End of Borehole			DRILLED

Ground Water Depth: NOT FOUND

Drill Date: APRIL 30, 2023

Drilled By: RD/MC

Drill Method: ASTM D-6282

Remarks: (SP) UNIFIED SOIL CLASSIFICATION SYMBOL AS DETERMINED BY VISUAL REVIEW

Soil Profile: 1 OF 13

Project: BORROW PIT, PID NO. 0322100200, NE SR 24, ARCHER, FL

Boring Location: (SEE BORING LOCATION MAP)

Client: ANDERSON COLUMBIA COMPANY, INC.

Project No: 23-264.29.1

Engineer: NJH/CAH

Enclosure: BORING MAP



1016 SE 3rd Avenue Ocala, Florida 352.694.7711 WWW.GEOTECHFL.COM

Depth (ft)	Symbol	Description	Depth/Elev.	Number	Remarks
0 =	MCCOOK	Ground Surface FINE SAND	0.0		= -
0 1 2 3 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 19 19 20 21 1		BROWN FINE SAND (SP)		1	LABORATORY VERTICAL PERMEABILITY RATE AT APPROX. 4.0 FEET = 43.34 FEET/DAY
22 = 23 =		CLAYEY SAND	22.5		
24 25 26 27 28 29		YELLOWISH BROWN CLAYEY SAND (SC)	29.0	2	ESHWTL AT APPROX. 29.0 FEET
30 31 32 33 34	<i>/</i>	CLAYEY SAND YELLOWISH BROWN AND GREY CLAYEY SAND (SC)	35.0	3	
35 36 37		End of Borehole			CONFINING LAYER GREATER THAN DEPTH DRILLED

Ground Water Depth: NOT FOUND

Drill Date: APRIL 30, 2023

Drilled By: RD/MC

Drill Method: ASTM D-6282

Remarks: (SP) UNIFIED SOIL CLASSIFICATION SYMBOL AS DETERMINED BY VISUAL REVIEW

Soil Profile: 2 OF 13

Project: BORROW PIT, PID NO. 0322100200, NE SR 24, ARCHER, FL

Boring Location: (SEE BORING LOCATION MAP)

Client: ANDERSON COLUMBIA COMPANY, INC.

Project No: 23-264.29.1

Engineer: NJH/CAH

Enclosure: BORING MAP



1016 SE 3rd Avenue Ocala, Florida 352.694.7711 WWW.GEOTECHFL.COM

Depth (ft)	Symbol	Description	Depth/Elev.	Number	Remarks
		Ground Surface	0.0		
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28		FINE SAND BROWN FINE SAND (SP) % PASS -200 AT APPROX. 10.0 FEET = 3.9		1	
13-					
14			15.0		
16-	/	CLAYEY SAND YELLOWISH BROWN CLAYEY SAND (SC)	17.0	2	ESHWTL AT APPROX. 17.0 FEET
29 30 31 32 33 34		CLAYEY SAND YELLOWISH BROWN AND GREY CLAYEY SAND (SC)	35.0	3	
35 36		End of Borehole	00.0		CONFINING LAYER GREATER THAN DEPTH DRILLED
37-					

Ground Water Depth: NOT FOUND

Drill Date: APRIL 30, 2023

Drilled By: RD/MC

Drill Method: ASTM D-6282

Remarks: (SP) UNIFIED SOIL CLASSIFICATION SYMBOL AS DETERMINED BY VISUAL REVIEW

Soil Profile: 3 OF 13

Project: BORROW PIT, PID NO. 0322100200, NE SR 24, ARCHER, FL

Project No: 23-264.29.1

Boring Location: (SEE BORING LOCATION MAP)

Client: ANDERSON COLUMBIA COMPANY, INC.

Engineer: NJH/CAH

Enclosure: BORING MAP



Depth (ft)	Symbol	Description	Depth/Elev.	Number	Remarks
0-	******	Ground Surface	0.0		
1- 2- 3- 4- 5- 6- 7- 8- 9-		FINE SAND BROWN FINE SAND (SP)		1	
9-					
10-		% PASS -200 AT APPROX. 10.0 FEET = 3.3			
12-			13.0		
13-		CLAYEY SAND	13.0		ESHWTL AT APPROX. 13.0 FEET
13 14 15 16 17 18		YELLOWISH BROWN AND GREY CLAYEY SAND (SC)	19.0	2	
19- 20- 21- 22- 23- 24- 25- 26- 27- 28- 29- 30- 31- 32- 33- 34- 35-		SLIGHTLY SANDY CLAY GREY AND YELLOWISH BROWN SLIGHTLY SANDY CLAY (CH) LIMESTONE LIGHT BROWN LIMESTONE	33.5 35.0	3	CONFINING LAYER AT APPROX. 19.0 FEET
36-		End of Borehole			

Ground Water Depth: NOT FOUND

Drill Date: APRIL 30, 2023

Drilled By: RD/MC

Drill Method: ASTM D-6282

Remarks: (SP) UNIFIED SOIL CLASSIFICATION SYMBOL AS DETERMINED BY VISUAL REVIEW

Soil Profile: 4 OF 13

Project: BORROW PIT, PID NO. 0322100200, NE SR 24, ARCHER, FL

Boring Location: (SEE BORING LOCATION MAP)

Client: ANDERSON COLUMBIA COMPANY, INC.

Project No: 23-264.29.1

Engineer: NJH/CAH

Enclosure: BORING MAP



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Depth (ft)	Symbol	Description	Depth/Elev.	Number	Remarks
		Ground Surface	0.0		
0 1 2 3 4 5 6 7 8 9 10 11 12		FINE SAND BROWN FINE SAND (SP) % PASS -200 AT APPROX. 10.0 FEET = 2		1	
13-					
14=		CLAVEV CAND	14.0		ESHWTL AT APPROX. 14.0 FEET
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 17 17 17 17 17 17 17 17 17 17 17 17		CLAYEY SAND YELLOWISH BROWN AND GREY CLAYEY SAND (SC) % PASS -200 AT APPROX. 20.0 FEET = 37	28.0	2	CONFINING LAYER AT APPROX. 28.0 FEET
29 30 31 32 33 34		SLIGHTLY SANDY CLAY GREY AND YELLOWISH BROWN SLIGHTLY SANDY CLAY (CH)	35.0	3	
35 36 37		End of Borehole			

Ground Water Depth: NOT FOUND

Drill Date: APRIL 30, 2023

Drilled By: RD/MC

Drill Method: ASTM D-6282

Remarks: (SP) UNIFIED SOIL CLASSIFICATION SYMBOL AS DETERMINED BY VISUAL REVIEW

Soil Profile: 5 OF 13

Project: BORROW PIT, PID NO. 0322100200, NE SR 24, ARCHER, FL

Boring Location: (SEE BORING LOCATION MAP)

Client: ANDERSON COLUMBIA COMPANY, INC.

Project No: 23-264.29.1

Engineer: NJH/CAH

Enclosure: BORING MAP



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Depth (ft)	Symbol	Description	Depth/Elev.	Number	Remarks
_		Ground Surface	0.0		
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37		FINE SAND BROWN FINE SAND (SP) CLAYEY SAND YELLOWISH BROWN CLAYEY SAND (SC) CLAYEY SAND YELLOWISH BROWN AND GREY CLAYEY SAND (SC)	14.0	2	LABORATORY VERTICAL PERMEABILITY RATE AT APPROX. 4.0 FEET = 21.72 FEET/DAY ESHWTL AT APPROX. 15.0 FEET
34 35 36 37		End of Borehole	35.0		CONFINING LAYER GREATER THAN DEPTH DRILLED

Ground Water Depth: NOT FOUND

Drill Date: APRIL 30, 2023

Drilled By: RD/MC

Drill Method: ASTM D-6282

Remarks: (SP) UNIFIED SOIL CLASSIFICATION SYMBOL AS DETERMINED BY VISUAL REVIEW

Soil Profile: 6 OF 13

Project: BORROW PIT, PID NO. 0322100200, NE SR 24, ARCHER, FL

Boring Location: (SEE BORING LOCATION MAP)

Client: ANDERSON COLUMBIA COMPANY, INC.

Project No: 23-264.29.1

Engineer: NJH/CAH

Enclosure: BORING MAP



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Depth (ft)	Symbol	Description	Depth/Elev.	Number	Remarks
0-		Ground Surface	0.0		
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33		FINE SAND BROWN FINE SAND (SP) CLAYEY SAND YELLOWISH BROWN AND GREY CLAYEY SAND (SC)	11.5	2	ESHWTL AT APPROX. 11.5 FEET
34 35 36 37		End of Borehole	35.0		CONFINING LAYER GREATER THAN DEPTH DRILLED

Ground Water Depth: NOT FOUND

Drill Date: APRIL 30, 2023

Drilled By: RD/MC

Drill Method: ASTM D-6282

Remarks: (SP) UNIFIED SOIL CLASSIFICATION SYMBOL AS DETERMINED BY VISUAL REVIEW

Soil Profile #7 OF 13

Project: BORROW PIT, PID NO. 0322100200, NE SR 24, ARCHER, FL

Boring Location: (SEE BORING LOCATION MAP)

Client: ANDERSON COLUMBIA COMPANY, INC.

Project No: 23-264.29.1

Engineer: NJH/CAH

Enclosure: BORING MAP



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Depth (ft)	Symbol	Description	Depth/Elev.	Number	Remarks
		Ground Surface	0.0		
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16		Ground Surface FINE SAND BROWN FINE SAND (SP)	0.0	1	
18			19.0		
19- 20- 21- 22- 23- 24-	/	CLAYEY SAND YELLOWISH BROWN CLAYEY SAND (SC)	23.0	2	ESHWTL AT APPROX. 23.0 FEET
25 26 27 28 29 30 31 32 33 34	<i>\</i>	CLAYEY SAND YELLOWISH BROWN AND GREY CLAYEY SAND (SC)	35.0	3	
35 36 37		End of Borehole	00.0		CONFINING LAYER GREATER THAN DEPTH DRILLED

Ground Water Depth: NOT FOUND

Drill Date: APRIL 30, 2023

Drilled By: RD/MC

Drill Method: ASTM D-6282

Remarks: (SP) UNIFIED SOIL CLASSIFICATION SYMBOL AS DETERMINED BY VISUAL REVIEW

Soil Profile: 8 OF 13

Project: BORROW PIT, PID NO. 0322100200, NE SR 24, ARCHER, FL

Boring Location: (SEE BORING LOCATION MAP)

Client: ANDERSON COLUMBIA COMPANY, INC.

Project No: 23-264.29.1

Engineer: NJH/CAH

Enclosure: BORING MAP



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Depth (ft)	Symbol	Description	Depth/Elev.	Number	Remarks
0		Ground Surface FINE SAND BROWN FINE SAND (SP) CLAYEY SAND YELLOWISH BROWN AND GREY CLAYEY SAND (SC)	24.0	1	ESHWTL AT APPROX. 24.0 FEET
29 30 31 32 33 34	/	% PASS -200 AT APPROX. 25.0 FEET = 21	35.0	2	CONFINING LAYER GREATER THAN DEPTH
35 36 37		End of Borehole			DRILLED

Ground Water Depth: NOT FOUND

Drill Date: APRIL 30, 2023

Drilled By: RD/MC

Drill Method: ASTM D-6282

Remarks: (SP) UNIFIED SOIL CLASSIFICATION SYMBOL AS DETERMINED BY VISUAL REVIEW

Soil Profile: 9 OF 13

Project: BORROW PIT, PID NO. 0322100200, NE SR 24, ARCHER, FL

Boring Location: (SEE BORING LOCATION MAP)

Client: ANDERSON COLUMBIA COMPANY, INC.

Project No: 23-264.29.1

Engineer: NJH/CAH

Enclosure: BORING MAP



Depth (ft)	Symbol	Description	Depth/Elev.	Number	Remarks
0-		Ground Surface	0.0		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 12 22 1		FINE SAND BROWN FINE SAND (SP) % PASS -200 AT APPROX. 10.0 FEET = 1.1	22.5	1	LABORATORY VERTICAL PERMEABILITY RATE AT APPROX. 4.0 FEET = 33.42 FEET/DAY
23-		CLAYEY SAND YELLOWISH BROWN CLAYEY SAND (SC)	04.5	2	
24 25 26 27 28 29 30 31 32 33		CLAYEY SAND YELLOWISH BROWN AND GREY CLAYEY SAND (SC) % PASS -200 AT APPROX. 25.0 FEET = 21	35.0	3	ESHWTL AT APPROX. 24.5 FEET
35 36 37		End of Borehole			CONFINING LAYER GREATER THAN DEPTH DRILLED

Ground Water Depth: NOT FOUND

Drill Date: APRIL 30, 2023

Drilled By: RD/MC

Drill Method: ASTM D-6282

Remarks: (SP) UNIFIED SOIL CLASSIFICATION SYMBOL AS DETERMINED BY VISUAL REVIEW

Soil Profile: 10 OF 13

Project: BORROW PIT, PID NO. 0322100200, NE SR 24, ARCHER, FL

Boring Location: (SEE BORING LOCATION MAP)

Client: ANDERSON COLUMBIA COMPANY, INC.

Project No: 23-264.29.1

Engineer: NJH/CAH

Enclosure: BORING MAP



Depth (ft)	Symbol	Description	Depth/Elev.	Number	Remarks
0-		Ground Surface	0.0		
0		FINE SAND BROWN FINE SAND (SP)		1	
19-	riinigi r	CLAYEY SAND	19.0		
20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36		YELLOWISH BROWN CLAYEY SAND (SC)	32.5	2	ESUMTI AT ADDDOV 22.5 FEET
33		CLAYEY SAND			ESHWTL AT APPROX. 32.5 FEET
34		YELLOWISH BROWN AND GREY CLAYEY SAND (SC)	35.0	3	CONFINING LAYER GREATER THAN DEPTH
36 37		End of Borehole			DRILLED

Ground Water Depth: NOT FOUND

Drill Date: APRIL 30, 2023

Drilled By: RD/MC

Drill Method: ASTM D-6282

Remarks: (SP) UNIFIED SOIL CLASSIFICATION SYMBOL AS DETERMINED BY VISUAL REVIEW

Soil Profile: 11 OF 13

Project: BORROW PIT, PID NO. 0322100200, NE SR 24, ARCHER, FL

Boring Location: (SEE BORING LOCATION MAP)

Client: ANDERSON COLUMBIA COMPANY, INC.

Project No: 23-264.29.1

Engineer: NJH/CAH

Enclosure: BORING MAP



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Depth (ft)	Symbol	Description	Depth/Elev.	Number	Remarks
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34		Ground Surface FINE SAND BROWN FINE SAND (SP) % PASS -200 AT APPROX. 10.0 FEET = 1.5 CLAYEY SAND YELLOWISH BROWN CLAYEY SAND (SC) CLAYEY SAND YELLOWISH BROWN AND GREY CLAYEY SAND (SC) % PASS -200 AT APPROX. 15.0 FEET = 24	13.0	3	ESHWTL AT APPROX. 14.0 FEET
35 36 37		End of Borehole	35.0		CONFINING LAYER GREATER THAN DEPTH DRILLED

Ground Water Depth: NOT FOUND

Drill Date: APRIL 30, 2023

Drilled By: RD/MC

Drill Method: ASTM D-6282

Remarks: (SP) UNIFIED SOIL CLASSIFICATION SYMBOL AS DETERMINED BY VISUAL REVIEW

Soil Profile: 12 OF 13

Project: BORROW PIT, PID NO. 0322100200, NE SR 24, ARCHER, FL

Boring Location: (SEE BORING LOCATION MAP)

Client: ANDERSON COLUMBIA COMPANY, INC.

Project No: 23-264.29.1

Engineer: NJH/CAH

Enclosure: BORING MAP



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Depth (ft)	Symbol	Description	Depth/Elev.	Number	Remarks
		Ground Surface	0.0		
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 1		FINE SAND BROWN FINE SAND (SP) % PASS -200 AT APPROX. 10.0 FEET = 1.1	17.5	1	
18-		CLAYEY SAND	19.0	2	
19- 20- 21- 22- 23- 24- 25- 26- 27- 28- 30- 31- 32- 33- 34-		YELLOWISH BROWN CLAYEY SAND (SC) CLAYEY SAND YELLOWISH BROWN AND GREY CLAYEY SAND (SC) % PASS -200 AT APPROX. 20.0 FEET = 18	.5.0	3	ESHWTL AT APPROX. 19.0 FEET
35	1		35.0		CONFINING LAYER GREATER THAN DEPTH
35 36 37		End of Borehole			DRILLED

Ground Water Depth: NOT FOUND

Drill Date: APRIL 30, 2023

Drilled By: RD/MC

Drill Method: ASTM D-6282

Remarks: (SP) UNIFIED SOIL CLASSIFICATION SYMBOL AS DETERMINED BY VISUAL REVIEW

Soil Profile: 13 OF 13

APPENDIX IIBORING LOCATION MAP



