U.S. Army Corps of Engineers – Charleston District - Regulatory Division REQUEST FOR CORPS JURISDICTIONAL DETERMINATION (JD) / DELINEATION

(For Jurisdictional Status and Identifying Wetlands and Other Aquatic Resources)

The Regulatory Division is now offering paperless/electronic documents as a primary means of accepting project submittals and responding to requests. While electronic submittals are preferred, we will continue to accept paper documents that meet our file requirements in order to accommodate those with limited computer access. Depending on the project location, requests should be submitted to the appropriate office below. Please visit https://www.sac.usace.army.mil/Missions/Regulatory/Electronic-Submittals/ for additional information on electronic submittals.

Columbia Office: Charleston Office: Conway Office: Greenville Office: 1949 Industrial Park Road, Room 140 150 Executive Center Drive, Suite 205 69A Hagood Avenue 2567 Essayons Way Charleston, SC 29403 Fort Jackson, SC 29207 Conway, SC 29526 Greenville, SC 29615 843-329-8044 803-253-3444 843-365-4239 864-609-4326 SAC.RD.Charleston@usace.army.mil SAC.RD.Columbia@usace.army.mil SAC.RD.Conway@usace.army.mil SAC.RD.Greenville@usace.army.mil

I. PROPERTY AND AGENT INFORMATION

A. Site Details/Location:	
Site Name: Pacolet Quarry Site	Date: March 14, 2023
City/Township/Parish: Spartanburg	County: Spartanburg
Latitude/Longitude: 34.9370N, -81.7681W	Acreage: <u>782</u>
Tax Map Sequence (TMS) #(s): Multiple Spartanburg Co. TPNs (A	
Property Address(es): Southwest and northeast of Hammett Grove Ro	
	(survey, tax map, OR GPS coordinates). Tax maps may only be used if
the site includes the entire tax map parcel. See the attache and proper submittal.	ed Checklist for information that should be submitted for a complete
Name: Ross Birkner	on (if there are multiple property owners, please attach additional pages) Company Name (if applicable): River Bend Aggregates, LLC
Address: 1855 East Main Street, Suite 14, 142 Spartanburg, SC 29307	
	mail: rbirkner@turnkeyprocessing.com
Check one: \Box I currently own this property \Box I plan to	purchase this property Other: Due diligence
C. Agent/Environmental Consultant Acting on Behalf o Consultant/Agent Name: Chris Daves, P.W.S. Company Name: S&ME, Inc. Address: 134 Suber Road Columbia, SC 29210	Phone: 803-561-9024
Email: cdaves@smeinc.com	Pnone: 803-561-9024
Ellian. coaves @ sinemo.com	_
II. REASON FOR REQUEST (check all that apply):	
$\hfill \square$ I intend to construct/develop a project or perform activiti	es on this site which would be designed to avoid all aquatic resources.
☐ I intend to construct/develop a project or perform activitive resources under Corps authority.	ies on this site which would be designed to avoid all jurisdictional aquatic
· · · · · · · · · · · · · · · · · · ·	ies on this site which may require authorization from the Corps, and the inimize impacts to jurisdictional aquatic resources and as an initial step in
	ies on this site which may require authorization from the Corps; this urisdictional determination is to be used in the permitting process.
☐ I intend to construct/develop a project or perform activiti	ies in a navigable water of the U.S. which is subject to the ebb and flow of
the tide.	
$\hfill \square$ A Corps jurisdictional determination is required in order	to obtain my local/state authorization.
☐ I intend to contest jurisdiction over a particular aquatic r not exist over the aquatic resource on the parcel.	esource and the request the Corps to confirm that jurisdiction does/does
$\hfill \square$ I believe that the site may be comprised entirely of dry I	and.
✓ Other: Due diligence for SCDHEC Mining Permit	

103, 33 USC 1413; Regulatory Program of the U.S. Army Corps of Engineers; Final Rule for 33 CFR Parts 320-332.

<u>Principal Purpose:</u> The information that you provide will be used in evaluating your request to determine whether there are any aquatic resources within the project area subject to federal jurisdiction under the regulatory authorities referenced above.

Routine Uses: This information may be shared with the Department of Justice and other federal, state, and local government agencies, and the public, and may be made available as part of a public notice as required by federal law. Your name and property location where federal jurisdiction is to be determined will be included in the approved jurisdictional determination (AJD), which will be made available to the public on the District's website and on the Headquarters USACE website.

Disclosure: Submission of requested information is voluntary; however, if information is not provided, the request for an jurisdictional determination cannot be evaluated nor can a jurisdictional determination be issued.

Authorities: Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Marine Protection, Research, and Sanctuaries Act, Section

III. TYPE OF REQUEST:

¹Delineation Concurrence (DC) – A DC provides concurrence that the delineated boundaries of wetlands on a property are a reasonable representation of the aquatic resources on-site. A DC does not address the jurisdictional status of the aquatic resources. (NOTE: A DC is generally the guickest type of standalone request for the Corps to review and process.)

²Approved – An AJD is defined in Corps regulations at 33 CFR 331.2. As explained in further detail in RGL 16-01, an AJD is used to indicate that this office has identified the presence or absence of wetlands and/or other aquatic resources on a site, including their accurate location(s) and boundaries, as well as their jurisdictional status. AJDs are valid for 5 years.

³Preliminary – A PJD is defined in Corps regulations at 33 CFR 331.2. As explained in further detail in RGL 16-01, a PJD is used to indicate that this office has identified the approximate location(s) and boundaries of wetlands and/or other aquatic resources on a site that are presumed to be subject to regulatory jurisdiction of the Corps of Engineers. Unlike an AJD, a PJD does not represent a definitive, official determination that there are, or that there are not, jurisdictional aquatic resources on a site, and does not have an expiration date.

⁴ "No Permit Required" (NPR) Letter- A NPR letter may be provided by the Corps to notify the requestor that an activity will not require a permit (authorization) from the Corps; this letter can only be used if the proposed activity is not a regulated activity, regardless of where the activity may occur. A NPR letter cannot be used to indicate the presence or absence of wetlands and/or other aquatic resources, nor can it be used to determine their jurisdictional status.

NOTE 1: Pre-approved Delineations and/or JDs are NOT a pre-requisite for submitting a DA permit application. Requests for JDs and/or DCs that are not associated with a DA permit application (Standalone Delineation / JD requests) will be reviewed and processed as time allows and based on available resources.

NOTE 2: Although not a requirement, it is recommended that Standalone requests be prepared and submitted by an environmental consultant to expedite the review process.

Select the Appropriate Request:	
$\hfill \square$ Pre-Construction Notification or Department of the Arn	ny permit application
$\hfill \square$ with Delineation only (no written concurrence of deli	neation)
☐ with Delineation Concurrence¹	
☐ with Preliminary Jurisdictional Determination (PJD) ³	
$\hfill\Box$ with Approved Jurisdictional Determination (AJD) 2	
Standalone Delineation / Jurisdictional Determination Standalone Delineation / Jurisdictional Determination requests will be review	wed and processed as time allows and based on available resources.
✓ Delineation Concurrence¹	
☐ Preliminary Jurisdictional Determination (PJD) ³	
☐ Approved Jurisdictional Determination (AJD) ²	
priorities, the Charleston District Regulatory Division will only prov (typically 1 acre or less).	or private property owners for minor actions. Due to current workload and ride this service on a limited basis for private individuals on small tracts of land
 ☐ with the attached Pre-Construction Notification or Do (This may delay processing times. The review of the permit application ☐ with a Delineation Only, an AJD or PJD 	
☐ "No Permit Required" (NPR) Letter as I believe my propo	osed activity is not regulated ⁴
☐ Unclear and require additional information to inform my de	ecision.
authority, to and do hereby grant U.S. Army Corps of Engineer this request for the purposes of conducting on-site investigatio	Im acting as the duly authorized agent of a person or entity with such rs personnel right of entry to legally access the property(ies) subject to ns (e.g., digging and refilling shallow holes) and issuing a jurisdictional on that I possess the requisite property rights to request a jurisdictional
1855 East Main St., Suite 14, 142 Spartanburg, SC 29307	Multiple Spartanburg Co. TPNs (Appendix C)
Mailing Address	Property Address / TMS #(s)
rbirkner@turnkeyprocessing.com	779-230-0349
Email Address	Daytime Phone Number
*Signature:	Ross Birkner, Procurement Manager Printed Name and Date
** " " " " " " " " " " " " " " " " " "	201100 4044 M : D + 6 D - 1 10 + : A + 0 6

*Authorities: Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Marine Protection, Research, and Sanctuaries Act, Section 103, 33 USC 1413; Regulatory Program of the U.S. Army Corps of Engineers; Final Rule for 33 CFR Parts 320-332.

Principal Purpose: The information that you provide will be used in evaluating your request to determine whether there are any aquatic resources within the project area subject to federal jurisdiction

under the regulatory authorities referenced above. Routine Uses: This information may be shared with the Department of Justice and other federal, state, and local government agencies, and the public, and may be made available as part of a public

notice as required by federal law. Your name and property location where federal jurisdiction is to be determined will be included in the approved jurisdictional determination (AJD), which will be made available to the public on the District's website and on the Headquarters USACE website.

2

Disclosure: Submission of requested information is voluntary; however, if information is not provided, the request for an jurisdictional determination cannot be evaluated nor can a jurisdictional determination be issued.



March 15, 2023

U.S. Army Corps of Engineers Greenville Field Office 150 Executive Center Drive, Suite 205 Greenville, SC 29615

Attention: Greenville Regulatory

Reference: Request for Jurisdictional Determination

Pacolet Quarry Site

Pacolet, Spartanburg County, South Carolina

S&ME Project No. 22610504

Dear Regulatory Project Manager:

On behalf of River Bend Aggregates, LLC, S&ME, Inc. (S&ME) has completed a Wetland Delineation at the above-referenced project area (site). The approximate 782-acre site consists of all or portions of nine Spartanburg County tax parcel numbers, currently owned by multiple owners (**Appendix C**). The site is located southwest and northeast of Hammett Grove Road near Pacolet, Spartanburg County, South Carolina. The site is being proposed as a future quarry site.

The site consists of wooded land, open areas, residences, and a utility easement. We are seeking a Delineation Concurrence (DC) for the site.

Wetland Delineation

On December 6, 13, and 20, 2022, January 5 and 18, 2023, and March 9, 2023, S&ME Biologists Chris Daves, P.W.S., Chris Handley, and Will Trotter conducted the Wetland Delineation. The following features were observed (see **Appendix A** for mapping and representative site photographs and **Appendix B** for Summary Tables):

- 15 Wetlands
- 27 Non-Wetland Waters (Tributaries)
- 62 Non-Aquatic Resources (Ephemeral Drainages/Swales)

Wetlands

Fifteen (15) wetlands (1.104 acres) were observed on the site (Photographs 1-10). The wetlands are classified as palustrine forested (PFO), Palustrine Scrub-Shrub (PSS), and Palustrine Emergent (PEM), riparian and headwater wetlands.



Request for Jurisdictional Determination Pacolet Quarry Site

Pacolet, Spartanburg County, South Carolina S&ME Project No. 22610504

Non-Wetland Waters (Tributaries)

Twenty-seven (27) tributaries (31,290 linear feet (lf)/2.910 acres) were observed on the site (Photographs 11-20). The tributaries are classified as perennial and seasonal. The tributaries had varied widths (2-10 feet) and a mixture of sand, cobble, and boulder substrates.

Non-Aquatic Resources (Ephemeral Drainages/Swales)

Sixty-two (62) ephemeral drainages/swales (23,463 lf) were observed on the site (Photographs 21-28). No evidence of hydrology or an Ordinary-High-Water-Mark (OHWM) were observed during site visits.

In summary, the site contains approximately **4.014 acres** of Aquatic Resources.

Uplands

Upland areas on the site consist of pine forestland, mixed hardwoods, pine-mixed hardwoods, and open areas/utility easement. These portions of the site consist of the non-hydric soil series Bethlehem-Saw, Cecil, Cecil-Bethlehem, and Pacolet as listed in the Soil Survey of Spartanburg County, South Carolina, and the U.S. Department of Agriculture - Natural Resources Conservation Service (USDA-NRCS) Web Soil Survey (Exhibit 4 – Soils Exhibit). Wetland vegetation, hydric soils, or hydrology were not observed in the upland areas.

♦ Enclosures

Attached in Appendices A-E, please find the following information for your review:

Appendix A

Exhibit 1 - Vicinity Exhibit, Exhibit 2 - Topographic Exhibit, Exhibit 3 – Aerial Index Exhibit, Exhibit 3 – Aerial Exhibit, Exhi

Appendix B

Summary Tables

Appendix C

Owner Information

Appendix D

Wetland/Upland Datasheets

Appendix E

Antecedent Precipitation Tool

March 15, 2023 2



Request for Jurisdictional Determination Pacolet Quarry Site

Pacolet, Spartanburg County, South Carolina S&ME Project No. 22610504

Closing

Thank you for your time and attention to this project. If we can provide additional information, please do not hesitate to contact us at 803-561-9024.

Sincerely,

S&ME

Chris Handley Biologist

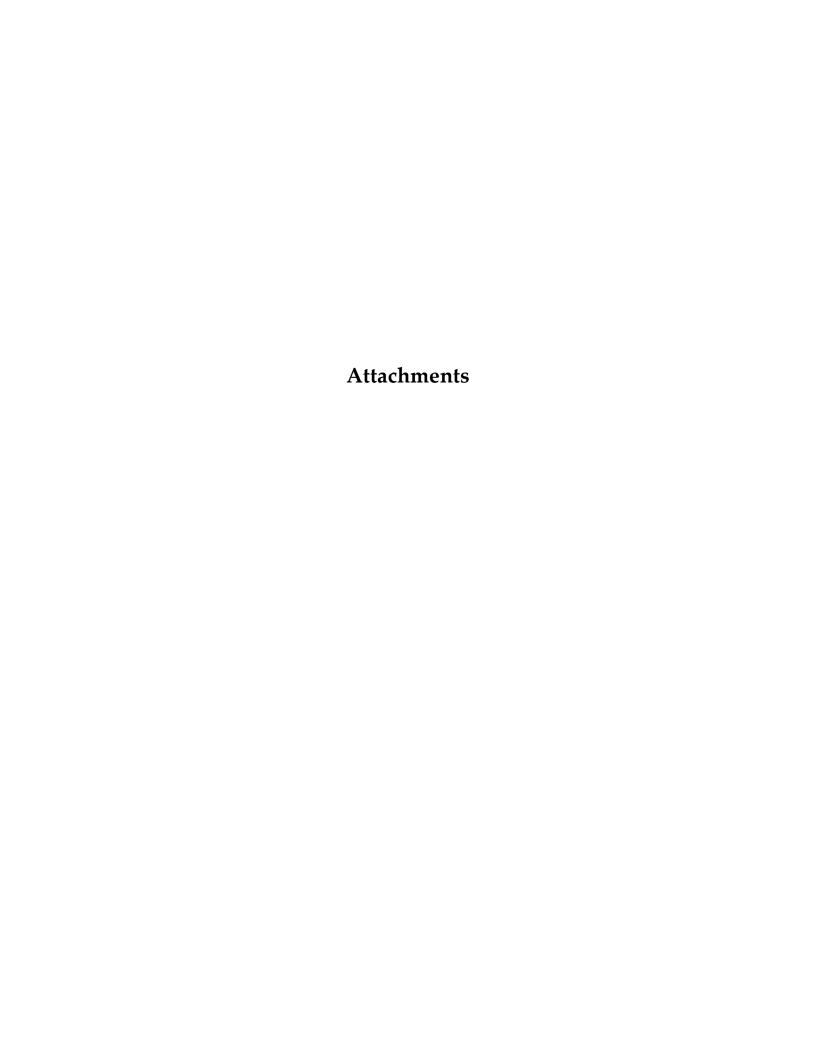
chandley@smeinc.com

Chris Daves, P.W.S. Senior Scientist

Chris Daves

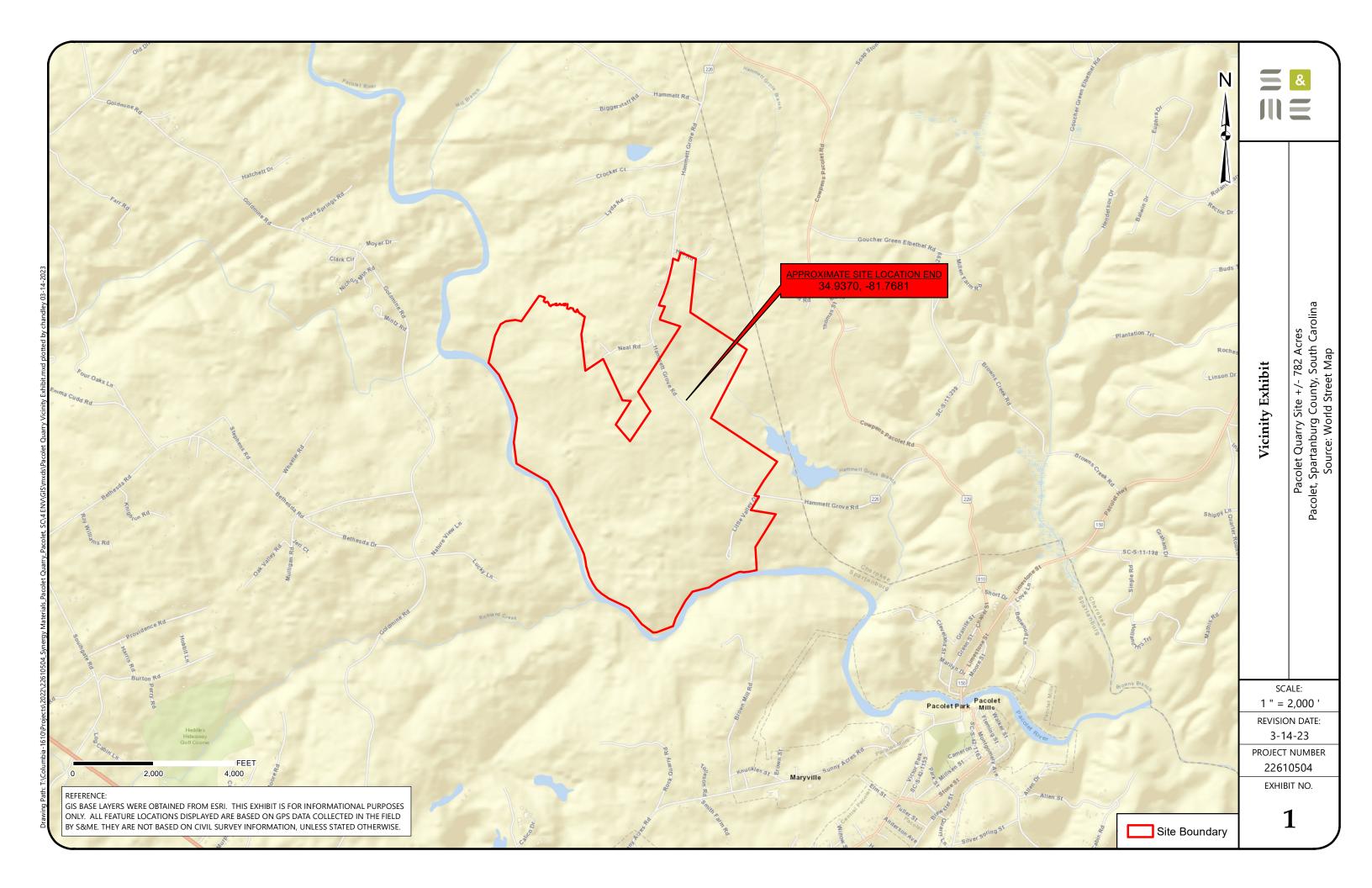
cdaves@smeinc.com

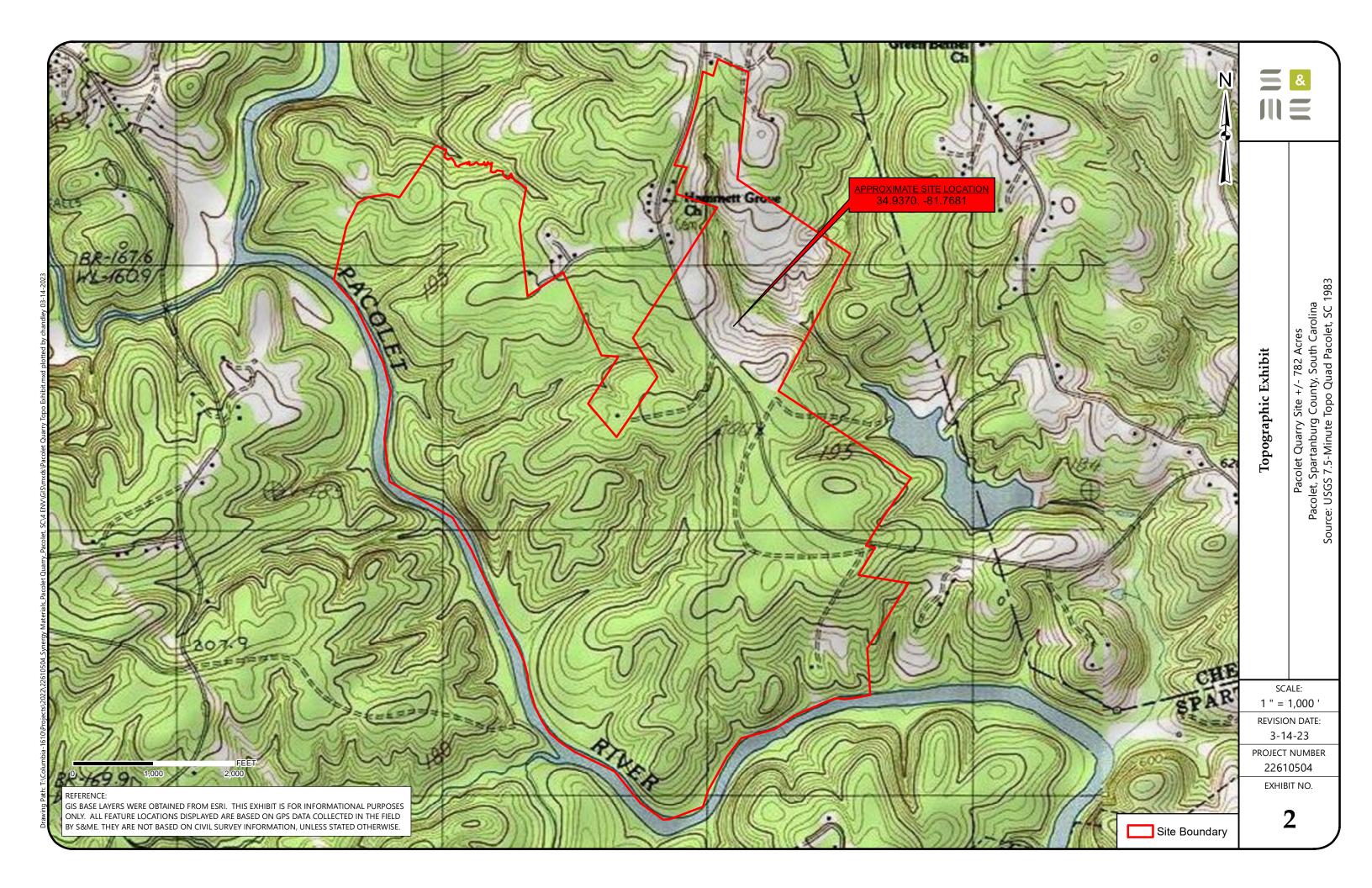
March 15, 2023 3

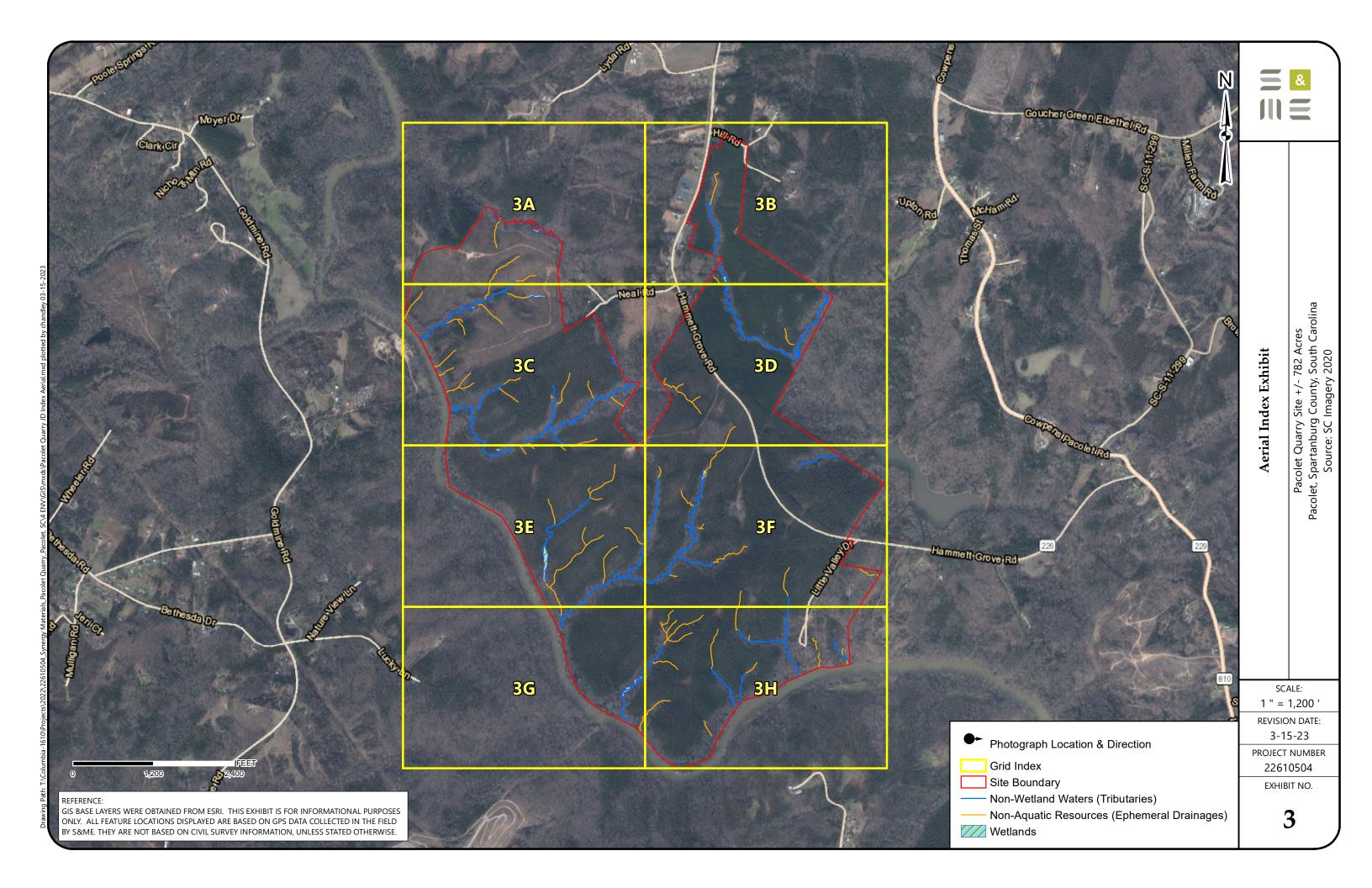


Appendix A

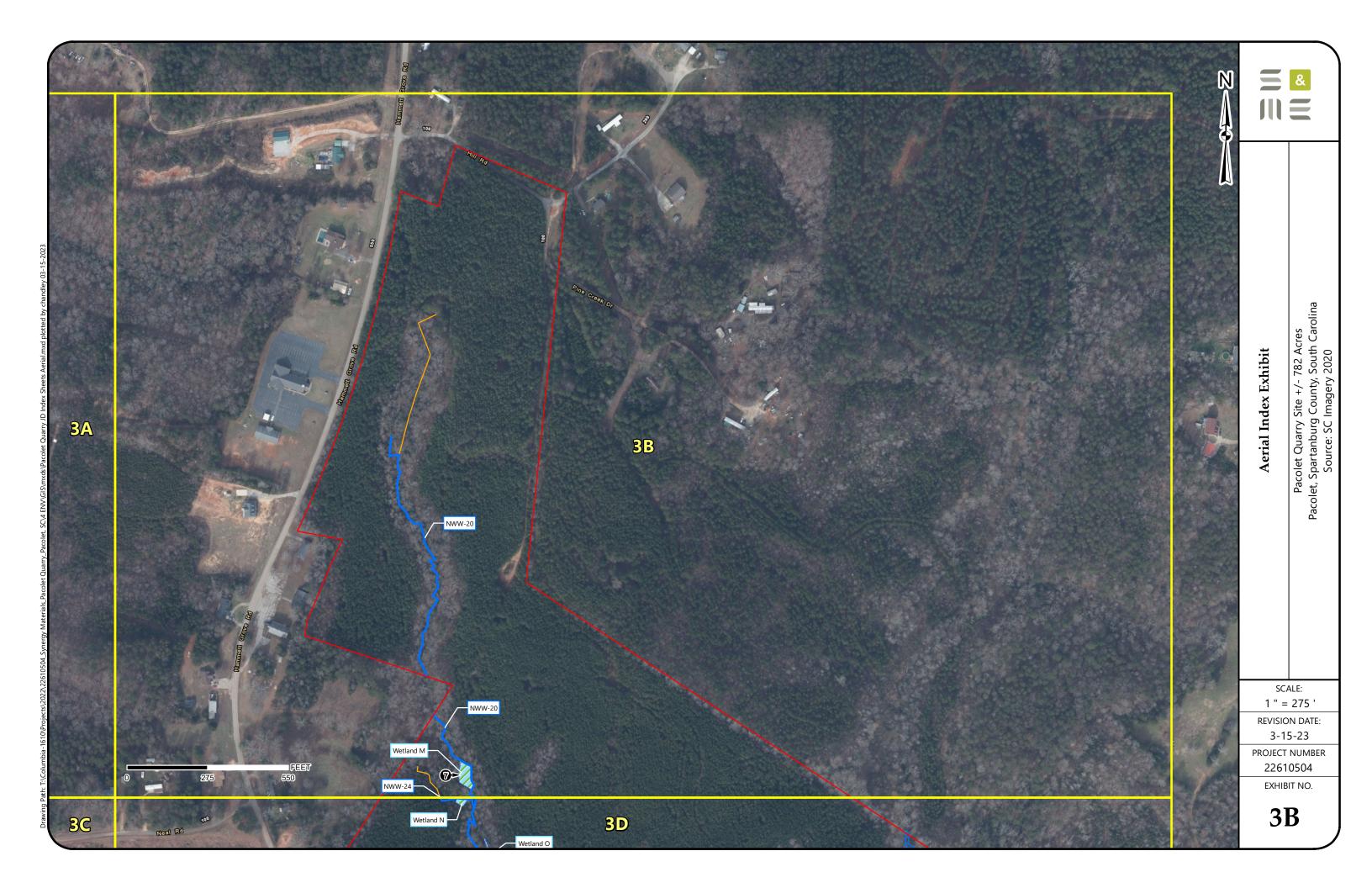
Exhibits and Site Photographs

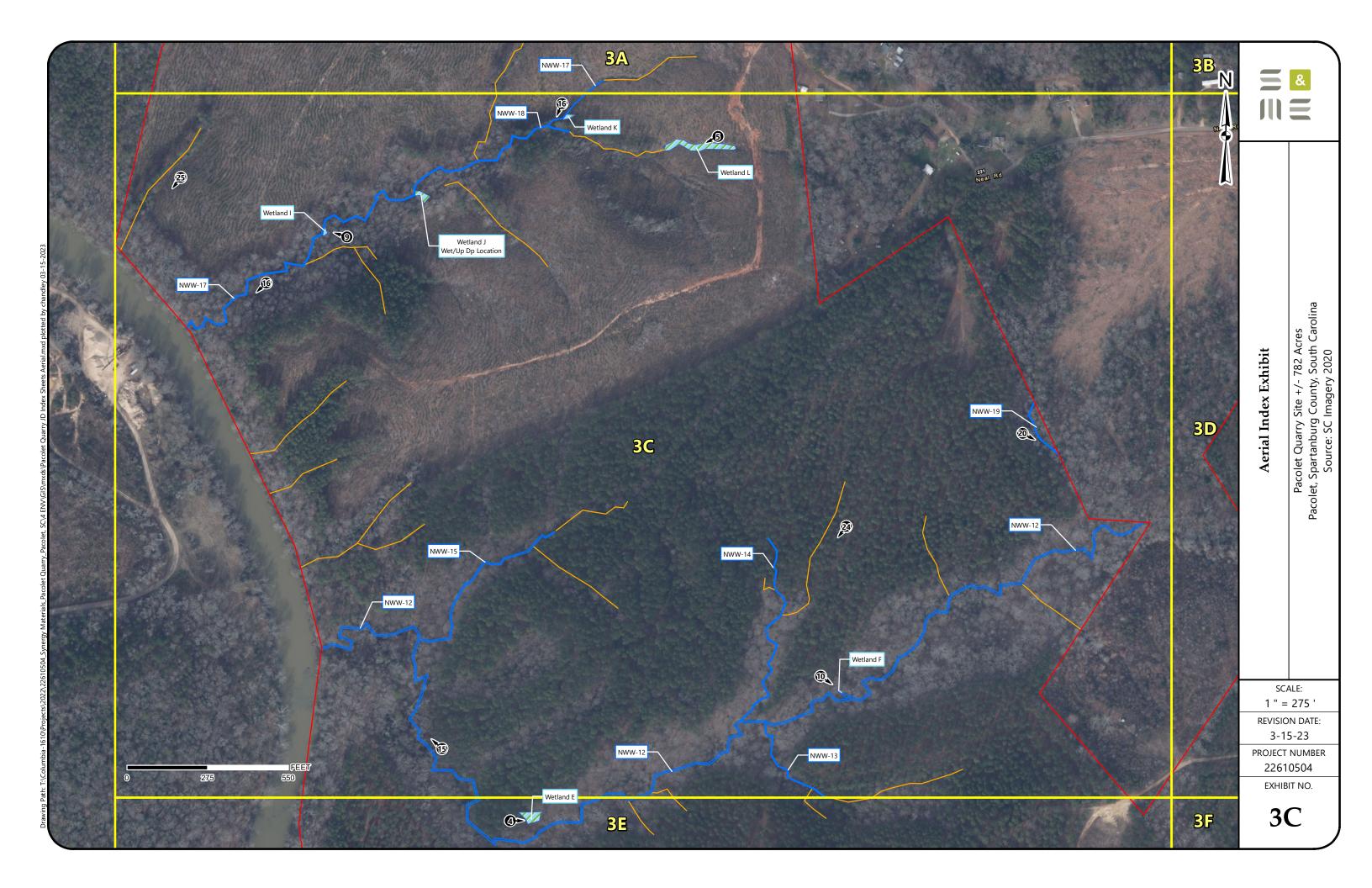


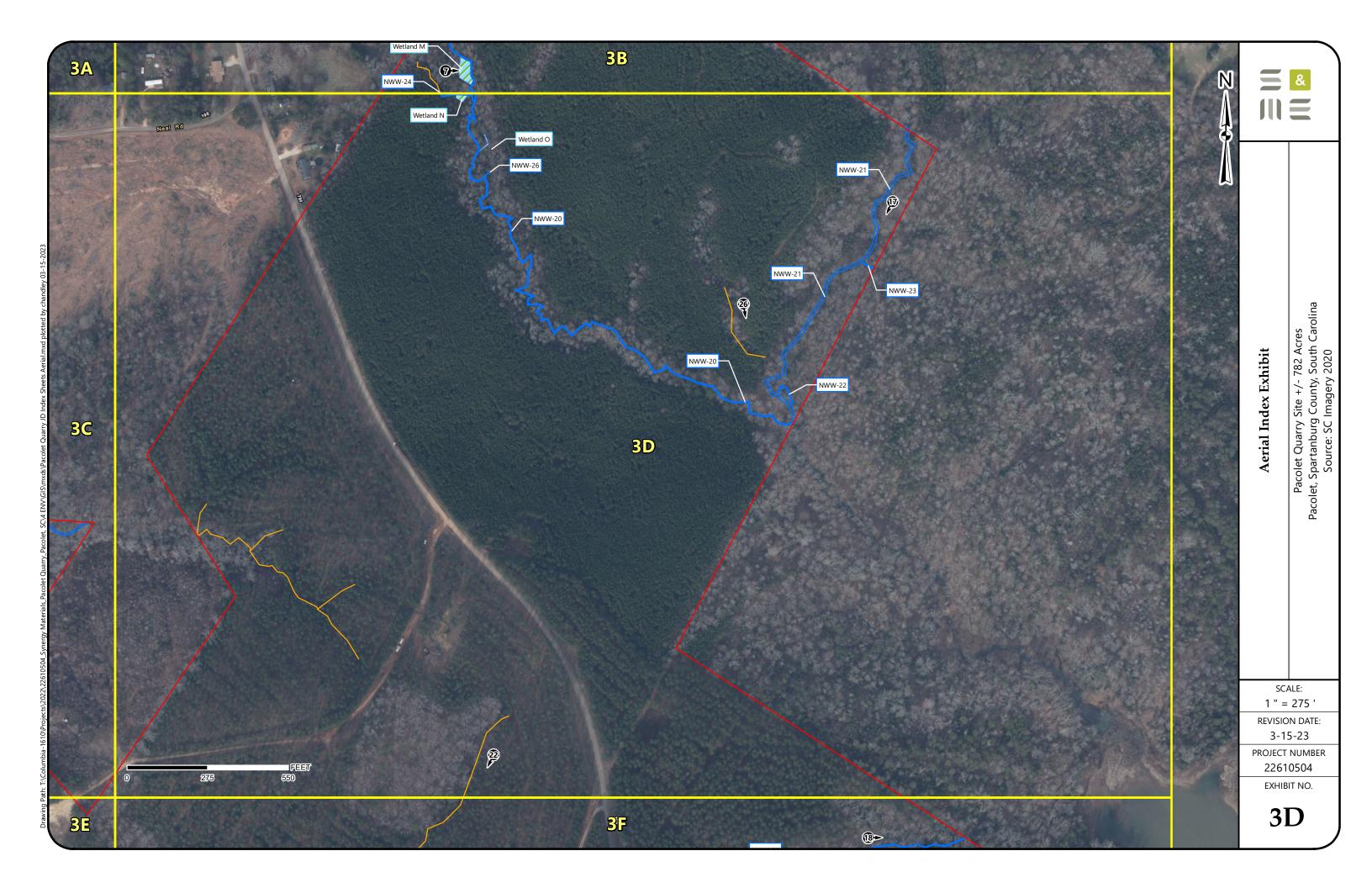


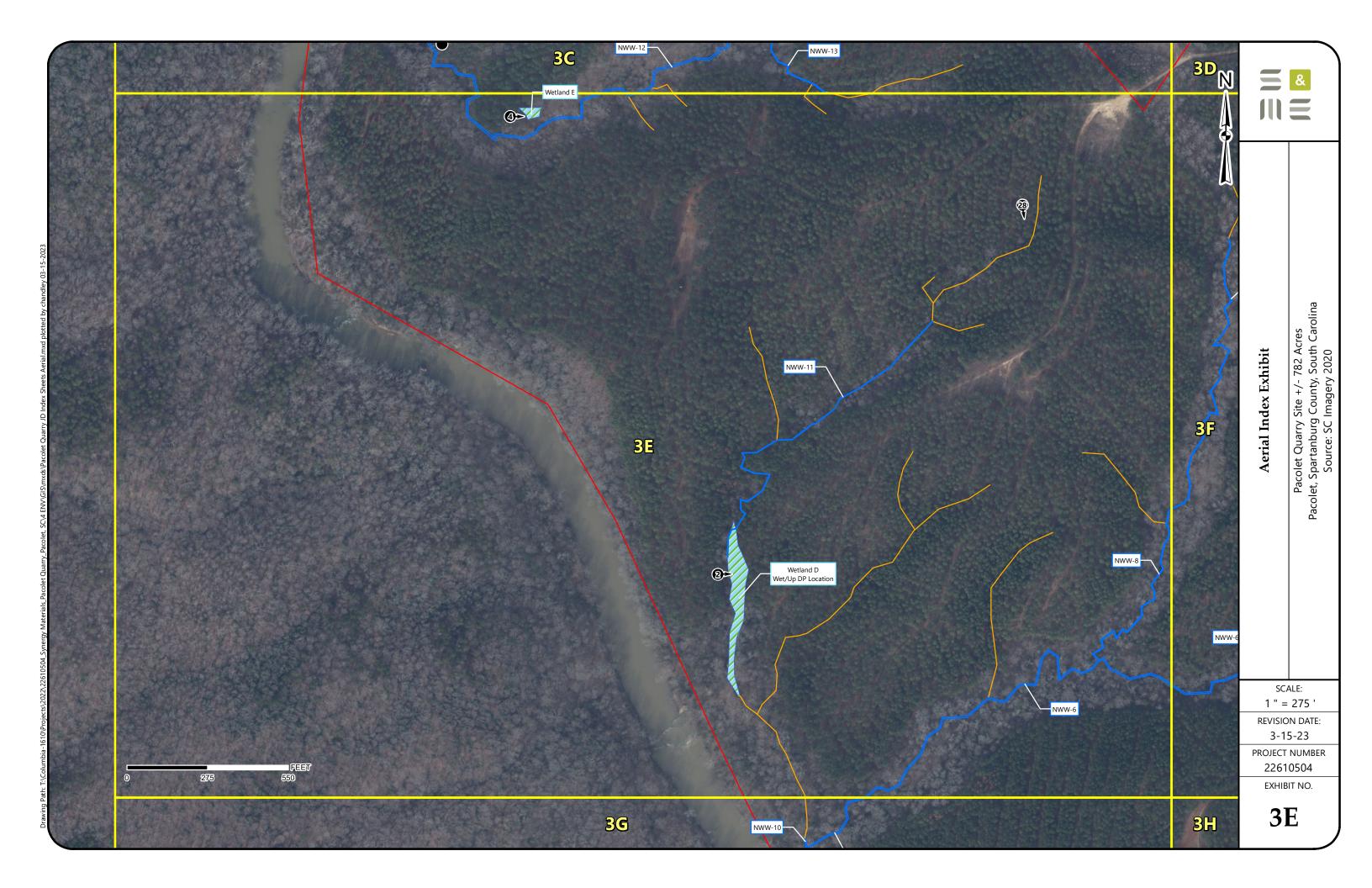


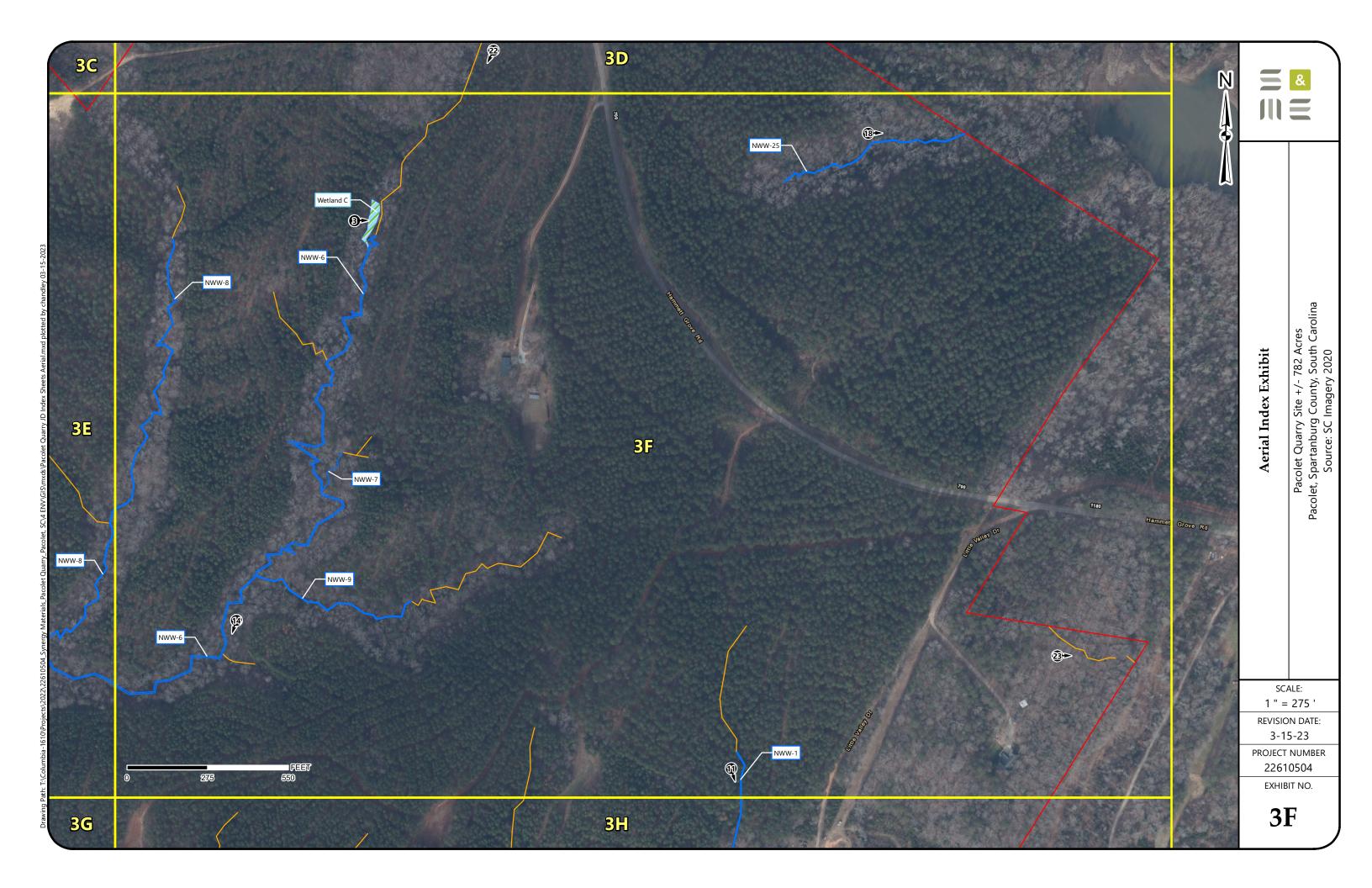


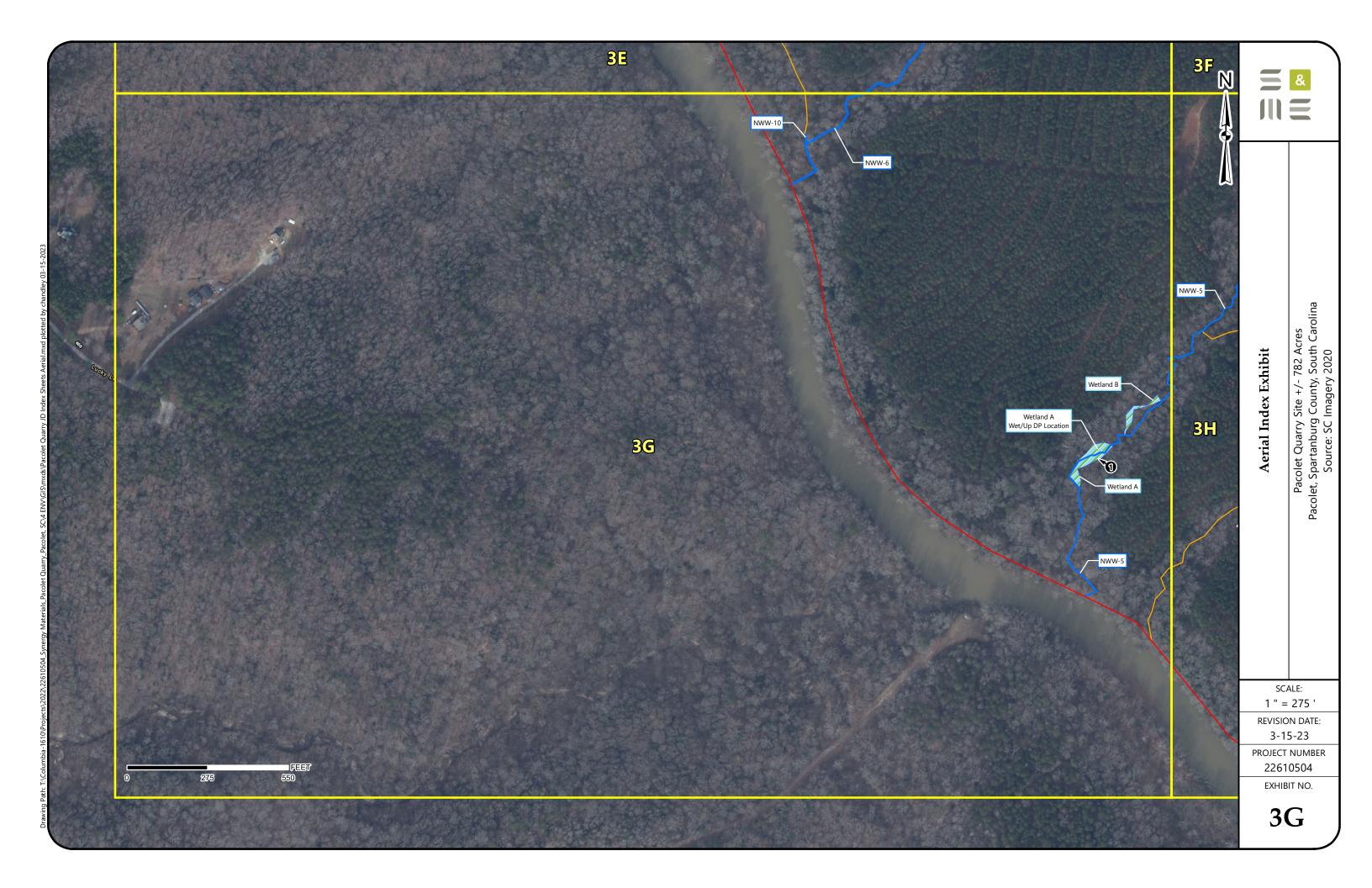


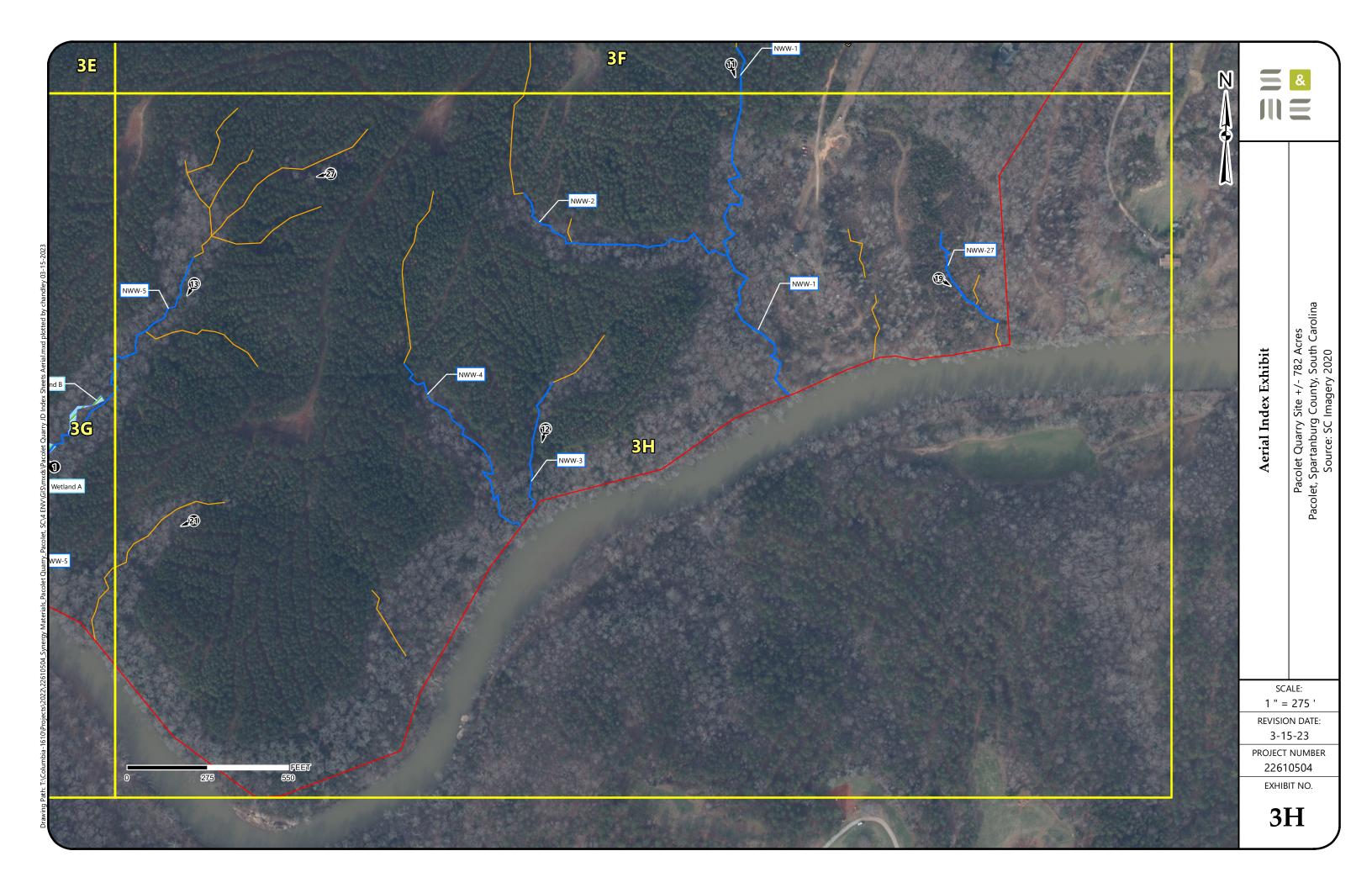


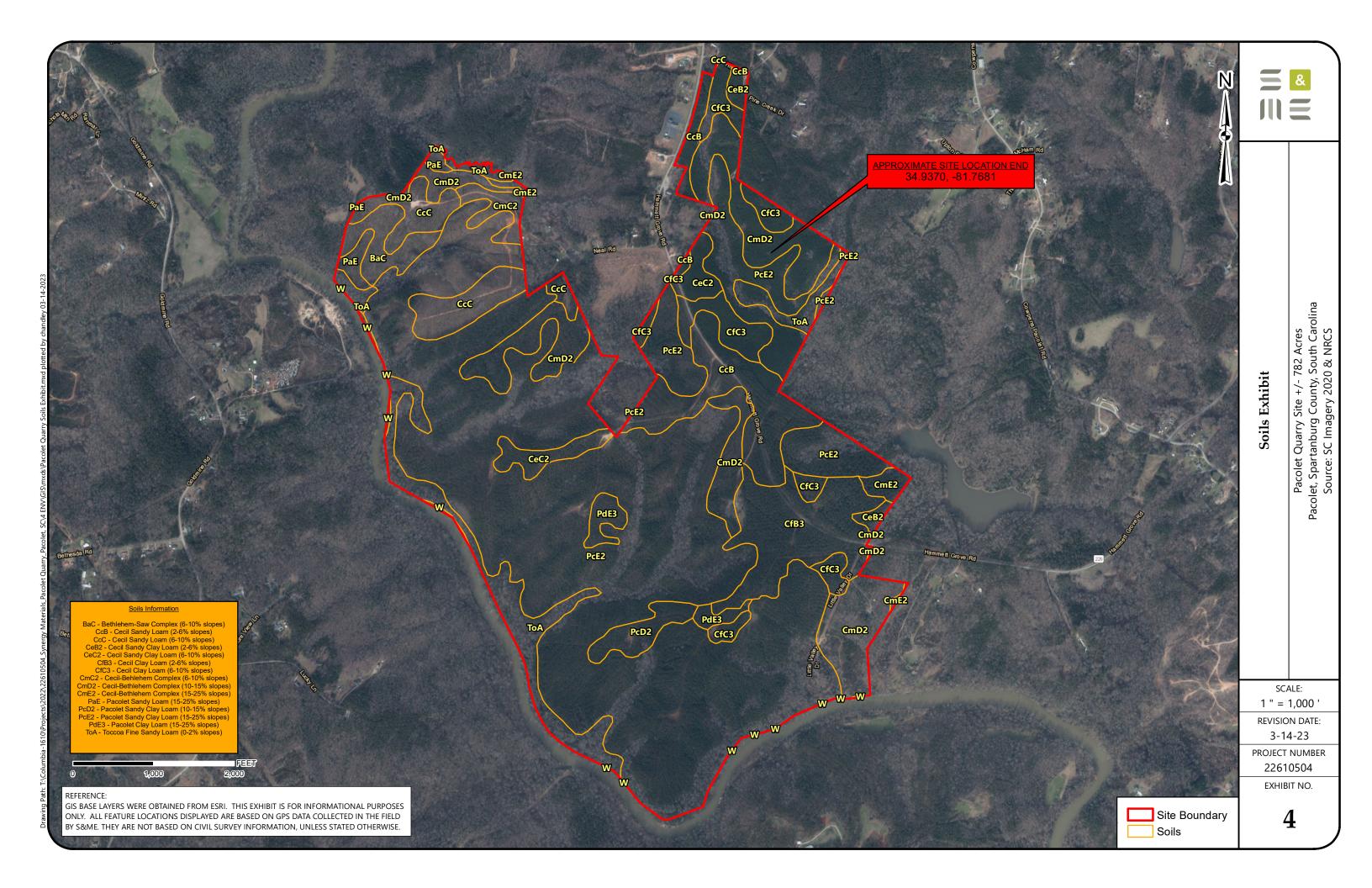


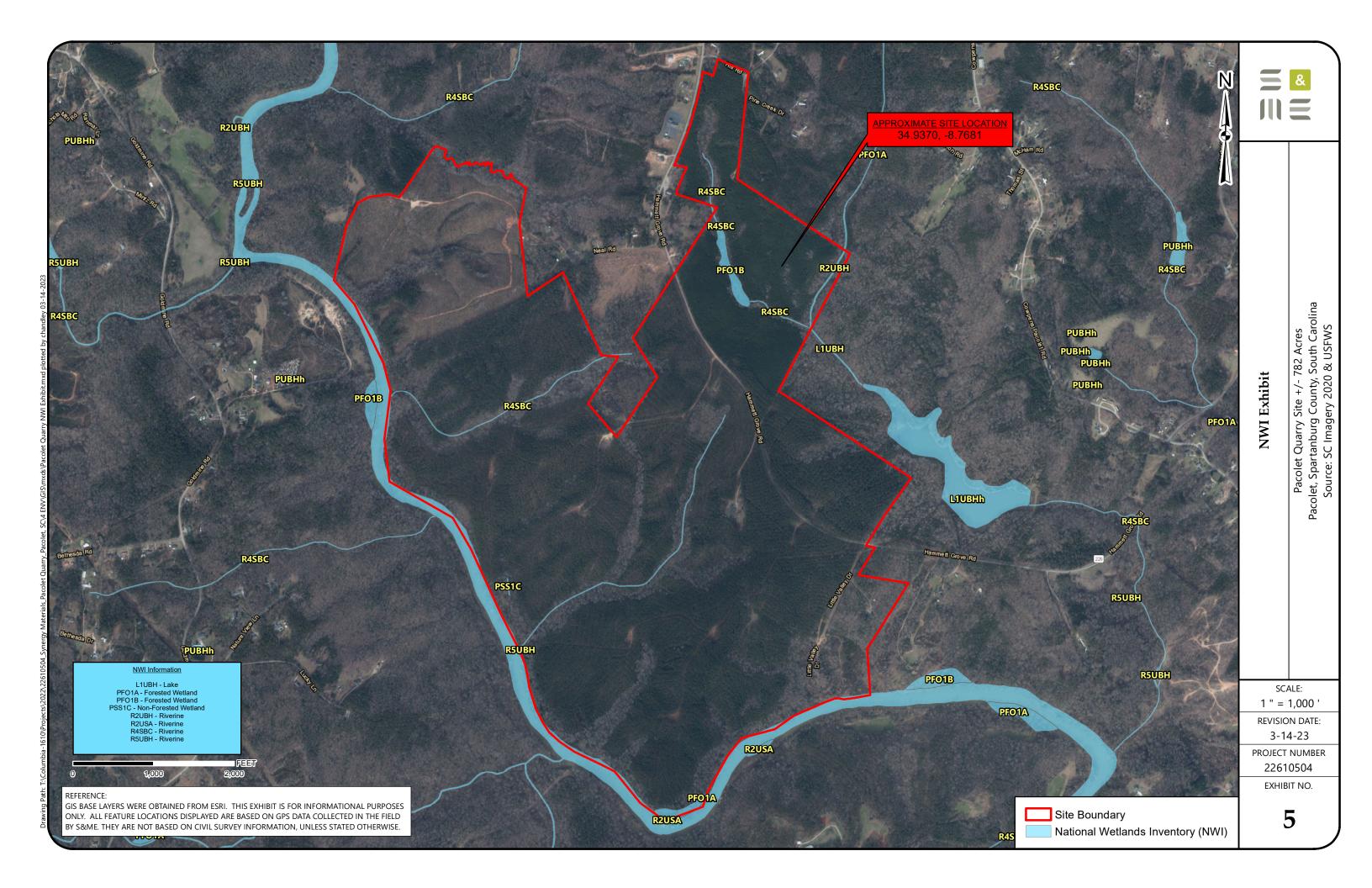


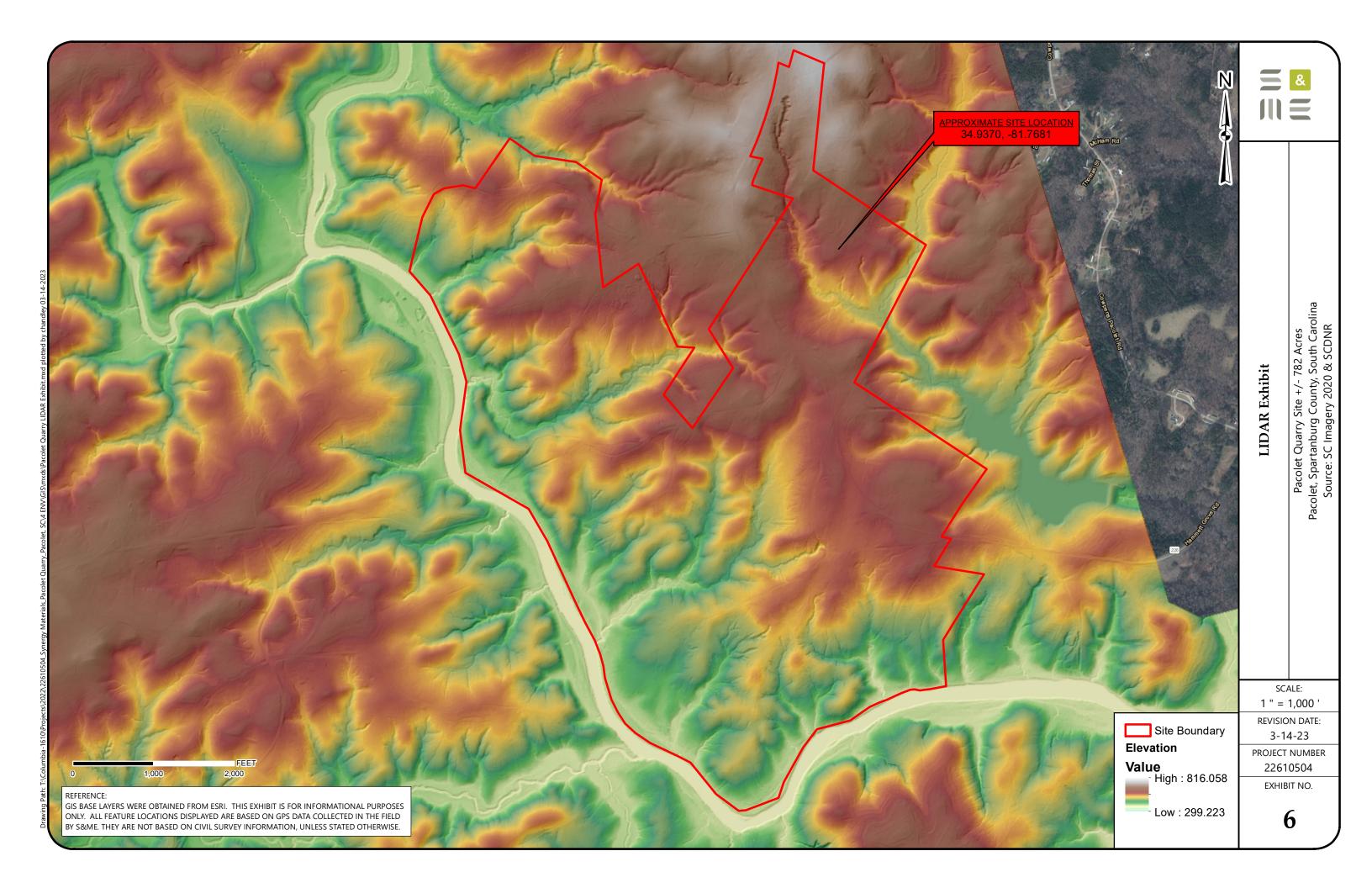


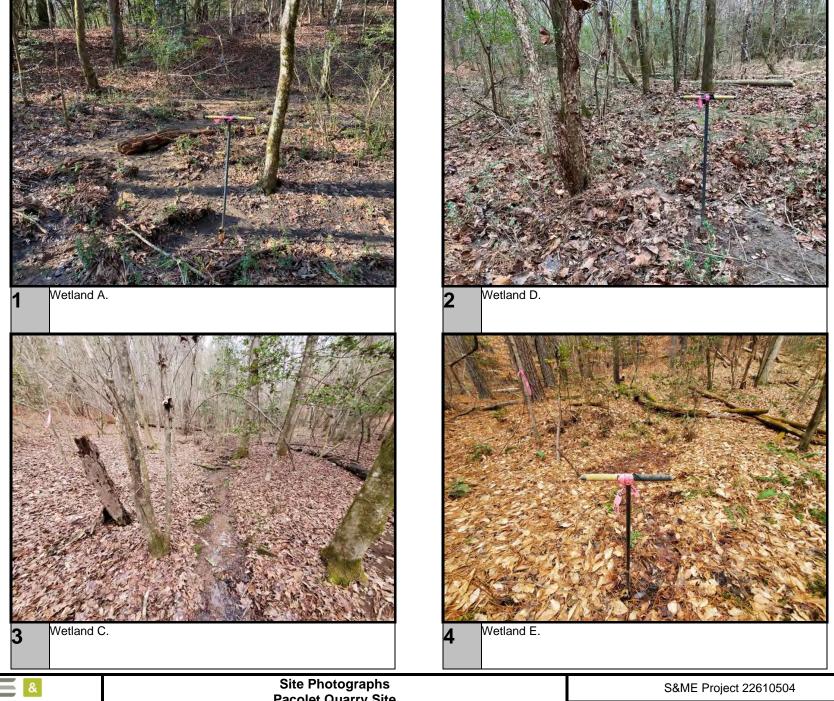






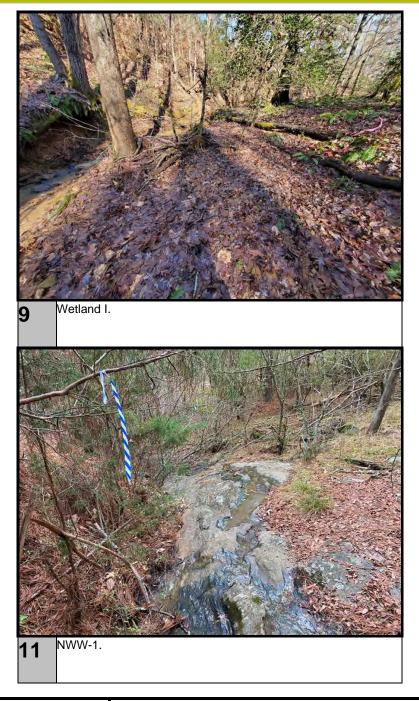


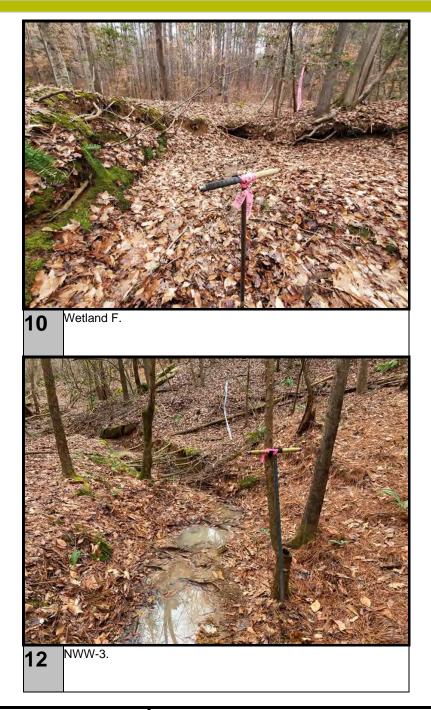








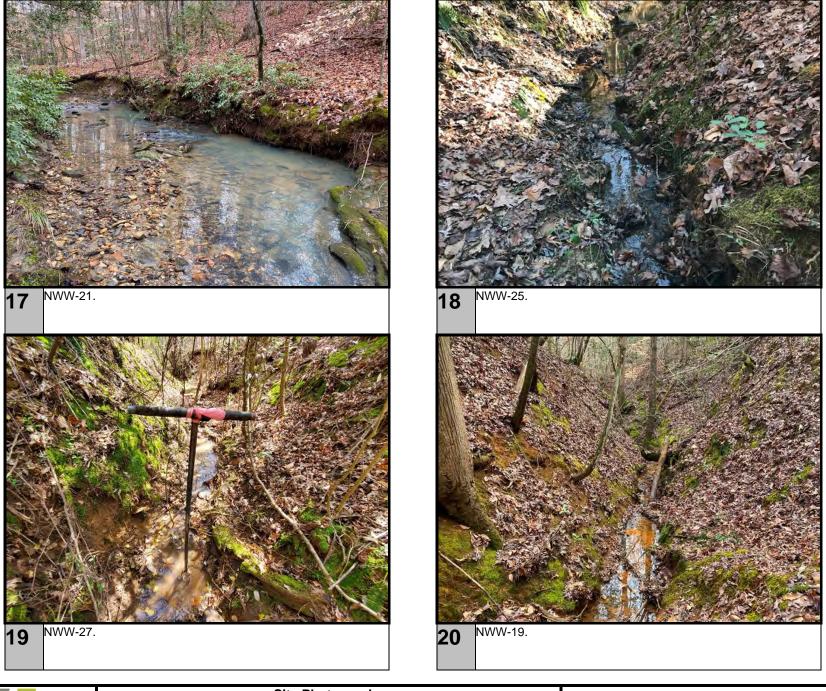








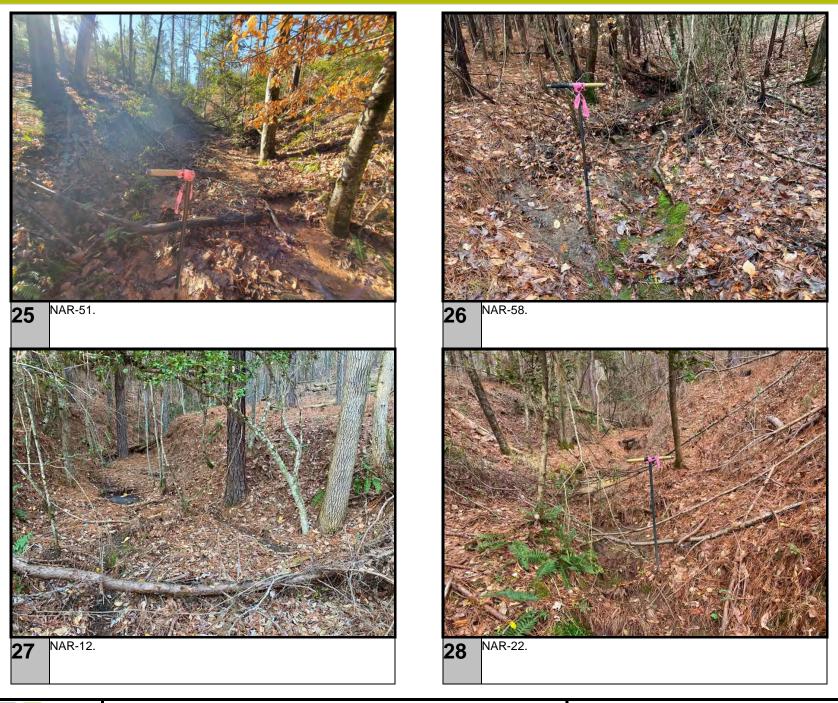














Appendix B

Summary Tables

<u>Label</u>	<u>Type</u>	<u>Acreage</u>
Wetland A	PFO-Riparian	0.137
Wetland B	PFO-Riparian	0.056
Wetland C	PFO-Riparian	0.089
Wetland D	PFO-Riparian	0.458
Wetland E	PFO-Non-Abutting (Floodplain)	0.046
Wetland F	PFO-Riparian	0.003
Wetland G	PFO-Riparian	0.046
Wetland H	PFO-Riparian	0.025
Wetland I	PFO-Riparian	0.006
Wetland J	PFO-Riparian	0.021
Wetland K	PEM-Riparian	0.009
Wetland L	PSS-Headwater	0.114
Wetland M	PFO-Riparian	0.072
Wetland N	PFO-Riparian	0.014
Wetland O	Linear-PFO	0.007
		<u>1.104</u>

<u>Label</u>	<u>Linear Footage</u>	Avg. Width	<u>Acreage</u>	<u>Type</u>
NWW-1	1479	3	0.102	Seasonal
NWW-2	868	2	0.040	Seasonal
NWW-3	475	2	0.022	Seasonal
NWW-4	858	2	0.039	Seasonal
NWW-5	1658	2	0.076	Seasonal
NWW-6	4696	5	0.539	Seasonal
NWW-7	167	3	0.012	Seasonal
NWW-8	1872	3	0.129	Seasonal
NWW-9	632	3	0.044	Seasonal
NWW-10	32	4	0.003	Seasonal
NWW-11	1348	2	0.062	Seasonal
NWW-12	4633	6	0.638	Seasonal
NWW-13	382	3	0.026	Seasonal
NWW-14	770	3	0.053	Seasonal
NWW-15	696	3	0.048	Seasonal
NWW-16	1868	3	0.129	Seasonal
NWW-17	1896	4	0.174	Seasonal
NWW-18	251	2	0.012	Seasonal
NWW-19	235	3	0.016	Seasonal
NWW-20	3725	4	0.342	Seasonal
NWW-21	1318	10	0.302	Perennial
NWW-22	103	5	0.012	Seasonal
NWW-23	47	3	0.003	Seasonal
NWW-24	149	3	0.010	Seasonal
NWW-25	694	3	0.048	Seasonal
NWW-26	26	2	0.001	Seasonal
NWW-27	413	3	0.028	Seasonal
	<u>31290</u>		<u>2.910</u>	

Label	width	Linear Footage
NAR-1	2	468
NAR-2	2	85
NAR-3	3	635
NAR-4	2	246
NAR-5	2	623
NAR-6	2	262
NAR-7	2	759
NAR-8	2	450
NAR-9	3	41
NAR-10	4	665
NAR-11	2	255
NAR-12	5	675
NAR-13	5	416
NAR-13	2	942
	3	
NAR-15	3	347 668
NAR-16		
NAR-17	3	118
NAR-18		128
NAR-19	3	41
NAR-20	2	191
NAR-21	2	406
NAR-22	2	725
NAR-23	2	1195
NAR-24	4	568
NAR-25	2	293
NAR-26	2	184
NAR-27	1	118
NAR-28	2	695
NAR-29	2	403
NAR-30	3	359
NAR-31	3	289
NAR-32	2	145
NAR-33	2	157
NAR-34	4	487
NAR-35	3	145
NAR-36	2	255
NAR-37	2	292
NAR-38	2	83
NAR-39	2	546
NAR-40	2	413
NAR-41	2	426
NAR-42	2	280
NAR-43	2	257
NAR-44	2	469
NAR-45	2	917
NAR-46	2	342

2	353
2	491
2	255
2	263
20	505
2	792
2	136
2	112
2	154
3	538
2	146
3	310
3	311
3	111
3	84
3	435
	<u>23463</u>
	2 2 2 2 2 2 2 2 2 3 2 3 3 3 3

Appendix C

Owner Information

Tax Parcel Owner Information

Tax Parcel No.	Owner(s) Name	Owner Address	Site Contact
3-25-00-014.01	Brett and John Spencer	1150 Hammett Grove Rd. Spartanburg, SC 29307	River Bend Aggregates, LLC Ross Birkner, Procurement Manager 1855 East Main St. Spartanburg, SC 29307 779-230-0349 rbirkner@turnkeyprocessing.com
3-25-00-014.02	Brett and John Spencer	1150 Hammett Grove Rd. Spartanburg, SC 29307	
3-25-00-014.00	Brett and John Spencer	1150 Hammett Grove Rd. Spartanburg, SC 29307	
3-25-00-013.00 (Portion of)	Jonathan Nguyen	406 W Abington Way Spartanburg, SC 29301	
3-25-00-013.02	Joseph and Sarah Sonefeld	1170 Hammett Grove Rd. Spartanburg, SC 29307	
3-25-00-010.00	Wiley Fork Legacy, LLC	PO Box 3524 Spartanburg, SC 29304	
3-25-00-006.00	Wiley Fork Legacy, LLC	PO Box 3524 Spartanburg, SC 29304	
3-25-00-006.06	Wiley Fork Legacy, LLC	PO Box 3524 Spartanburg, SC 29304	
3-22-00-016.00	Wiley Fork Legacy, LLC	PO Box 3524 Spartanburg, SC 29304	

Appendix D

Wetland and Upland Datasheets

Project/Site: Pacolet Quarry	Site	City/County: Spartanburg/Sp	partanburg Sampling Date: 13-Dec-	22	
Applicant/Owner: River Ben	d Aggregates, LLC	State: S			
Investigator(s): Chris Daves	s, P.W.SS&ME, Inc.	Section, Township, Range:	S TR		
Landform (hillslope, terrace,	etc.): Base of hillslope	Local relief (concave, convex,	none): concave Slope: 0.0%	/ 0.0 °	
Subregion (LRR or MLRA):	MLRA 136 in LRR P Lat.:	34.9292 L o	ong.: -81.7705		
Soil Map Unit Name: Tocco	a Fine Sandy Loam (ToA)		NWI classification: Upland		
Are climatic/hydrologic cond	itions on the site typical for this time of y	ear? Yes $lacktriangle$ No $lacktriangle$ (If n	o, explain in Remarks.)	_	
Are Vegetation $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	l 🗌 , or Hydrology 🗌 significan	tly disturbed? Are "Norma	al Circumstances" present? Yes 🌘 No	\circ	
Are Vegetation . , Soil	, or Hydrology naturally	problematic? (If needed	, explain any answers in Remarks.)		
Summary of Finding		sampling point locatio	ns, transects, important feature	es, etc.	
Hydrophytic Vegetation Pre					
Hydric Soil Present?	Yes No	Is the Sampled Area within a Wetland?	Yes ● No ○		
Wetland Hydrology Present	? Yes No	within a wetland?			
Remarks: Data point taken on inside	edge of Wetland A.				
Hydrology					
Wetland Hydrology Indicate	ors:		Secondary Indicators (minimum of two required	l)	
	um of one required; check all that apply)		Surface Soil Cracks (B6)		
Surface Water (A1)	True Aquatic Plan		Sparsely Vegetated Concave Surface (B8)		
✓ High Water Table (A2) ✓ Saturation (A3)	Hydrogen Sulfide	` ,	✓ Drainage Patterns (B10)		
Water Marks (B1)	Uxidized Rhizospi	neres along Living Roots (C3)	✓ Moss Trim Lines (B16)✓ Dry Season Water Table (C2)		
Sediment Deposits (B2)		ction in Tilled Soils (C6)	Crayfish Burrows (C8)		
Drift deposits (B3)	☐ Thin Muck Surface	` ,	Saturation Visible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Other (Explain in	` '	Stunted or Stressed Plants (D1)		
Iron Deposits (B5)	_ 、,	•	✓ Geomorphic Position (D2)		
Inundation Visible on Aeria	• , . ,		Shallow Aquitard (D3)		
Water-Stained Leaves (B9))		☐ Microtopographic Relief (D4)		
Aquatic Fauna (B13)			FAC-neutral Test (D5)		
Field Observations:	Yes O No O Depth (inches):				
Surface Water Present? Water Table Present?					
Saturation Present?	-1 ()		drology Present? Yes No		
(includes capillary fringe)	Yes No Depth (inches):	1			
Describe Recorded Data (st	ream gauge, monitoring well, aerial phot	os, previous inspections), if ava	ailable:		
Remarks:					
Hydrology indicators were	observed.				

	Absolute 6 Cover	Re	ver	Indicator Status	Dominance Test worksheet:			
2. Acer rubrum	25							
		_	55.6%	FACW	Number of Dominant Species That are OBL, FACW, or FAC:			
3	20	V _	44.4%	FAC	Tatal Number of Descious			
	0		0.0%		Total Number of Dominant Species Across All Strata:5 (B)			
4	0		0.0%					
5	0		0.0%		Percent of dominant Species That Are OBL FACW or FAC: 80.0% (A/B)			
6	0		0.0%		That Are OBL, FACW, or FAC: 80.0% (A/B)			
7	0		0.0%		Prevalence Index worksheet:			
8	0		0.0%		Total % Cover of: Multiply by:			
Sapling-Sapling/Shrub Stratum (Plot size: 15-ft.)	45 =	= To	tal Cover		OBL species 0 x 1 = 0			
	15	✓	100.0%	FACW	FACW species $40 \times 2 = 80$			
1. Ulmus americana		_	0.0%	TACVV	FAC species $30 \times 3 = 90$			
2			0.0%		FACU species $25 \times 4 = 100$			
3		Η-	0.0%		UPL species $0 \times 5 = 0$			
4		Η-	0.0%					
5		\Box	0.0%					
6		\Box	0.0%		Prevalence Index = B/A = 2.842			
7		Η-			Hydrophytic Vegetation Indicators:			
8		Η-	0.0%		Rapid Test for Hydrophytic Vegetation			
9		Η.	0.0%		✓ Dominance Test is > 50%			
10	0	Ш.	0.0%		✓ Prevalence Index is ≤3.0 ¹			
Shrub Stratum (Plot size: 15-ft.)		_	tal Cover		Morphological Adaptations ¹ (Provide supporting			
1 Liqustrum sinense	20	∠ _	66.7%	FACU	data in Remarks or on a separate sheet)			
2. Ilex opaca	5	Ш.	16.7%	FACU	☐ Problematic Hydrophytic Vegetation ¹ (Explain)			
3. Carpinus caroliniana	5		16.7%	FAC	¹ Indicators of hydric soil and wetland hydrology must			
4	0	$\square_{\underline{}}$	0.0%		be present, unless disturbed or problematic.			
5	0		0.0%		Definition of Vegetation Strata:			
6	0		0.0%		Four Vegetation Strata:			
7	0		0.0%		Tree stratum – Consists of woody plants, excluding vines, 3 i (7.6 cm) or more in diameter at breast height (DBH),			
Herb Stratum (Plot size: <u>5-ft.</u>)	30 =	= To	tal Cover		regardless of height.			
1	0	П	0.0%		Sapling/shrub stratum – Consists of woody plants, excluding			
2	0	\Box	0.0%		vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb stratum – Consists of all herbaceous (non-woody) plants,			
	0	\Box	0.0%		regardless of size, and all other plants less than 3.28 ft tall.			
3	0	\Box	0.0%		Woody vines – Consists of all woody vines greater than 3.28 ft			
5.	0	\Box	0.0%		in height.			
6.	0		0.0%		F: V			
7	0		0.0%		Five Vegetation Strata:			
8.	0		0.0%		Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in			
9.	0	\Box	0.0%		diameter at breast height (DBH).			
10	0	$\overline{\Box}$	0.0%		Sapling stratum – Consists of woody plants, excluding woody			
11	0	$\overline{\Box}$	0.0%		vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.			
12	0	$\overline{\Box}$	0.0%		Shrub stratum – Consists of woody plants, excluding woody			
		 To	tal Cover		vines, approximately 3 to 20 ft (1 to 6 m) in height.			
Woody Vine Stratum (Plot size: <u>30-ft.</u>)	5	~	100.00/	FAC	Herb stratum – Consists of all herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody			
1 Bignonia capreolata		_	100.0%	FAC	species, except woody vines, less than approximately 3 ft (1			
2			0.0%		m) in height.			
3		<u> </u>	0.0%		Woody vines – Consists of all woody vines, regardless of height.			
4			0.0%					
5	0		0.0%		Hydrophytic			
6		\square_{\perp}	0.0%		Vegetation Present? Yes No No			
	5	= To	tal Cover	• 	Frescrit:			

Soil Sampling Point: WET A-WET

Profile Descr		the depth	needed to d				nfirm the	absence of indicators.)				
Depth	Matrix	Matrix Redox Features										
(inches)	Color (moist)		Color (<u>%</u>	Type 1		<u>Texture</u>	Remarks			
1-5	10YR 4/2	90	10YR	5/6	10	C	M	Sandy Loam				
5-20	10YR 5/2	90	10YR	5/6	10	C	M	Sandy Loam				
	-											
			-		-			-	-			
								-				
			-					-				
¹ Type: C=Con	centration. D=Depletion	on. RM=Redu	ıced Matrix,	CS=Cover	ed or Coate	ed Sand Gra	ains ²Loca	ation: PL=Pore Lining. M=M	latrix			
Hydric Soil I	Indicators:							Indicators for Probl	ematic Hydric Soils ³ :			
Histosol (A1)		Dark	Surface (S7)				-			
Histic Epi	pedon (A2)		Poly	value Belo	w Surface	(S8) (MLRA	147,148)	2 cm Muck (A10)				
Black Hist	tic (A3)		Thin	Dark Surf	ace (S9) (N	/ILRA 147, :	148)	Coast Prairie Red (MLRA 147,148)	ox (A16)			
Hydrogen	Sulfide (A4)		Loan	ny Gleyed	Matrix (F2))		Piedmont Floodp	lain Saile (E10)			
Stratified	Layers (A5)		✓ Depl	eted Matri	x (F3)			(MLRA 136, 147)				
2 cm Muc	k (A10) (LRR N)		Redo	x Dark Su	rface (F6)			☐ Very Shallow Dark Surface (TF12)☐ Other (Explain in Remarks)				
☐ Depleted	Below Dark Surface (A	11)	Depl	eted Dark	Surface (F	7)						
☐ Thick Dar	k Surface (A12)		Redo	x Depress	ions (F8)							
Sandy Mu MLRA 147	ıck Mineral (S1) (LRR N	٧,		Manganes A 136)	se Masses ((F12) (LRR	N,					
	eyed Matrix (S4)		Umb	ric Surface	e (F13) (MI	LRA 136, 12	22)	_				
Sandy Re			Pied	mont Floo	dplain Soils	(F19) (ML	RA 148)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present,				
	Matrix (S6)		Red	Parent Ma	terial (F21) (MLRA 12	7, 147)		isturbed or problematic.			
Postrictivo I	ayer (if observed):											
Type:	ayei (ii observeu).											
Depth (inc	hes):							Hydric Soil Present?	Yes 💿 No 🔾			
Remarks:												
	dicators were obser	wod										
nyuric soii ind	uicators were obser	vea.										

Project/Site: Pacolet Quarry Site		C	ity/County: Spartanburg/Sp	partanburg	Sampling Da	ate: 13-Dec-22
Applicant/Owner: River Bend Agg	regates, LLC		State: S	SC .	Sampling Point:	WET A-UP
Investigator(s): Chris Daves, P.W	SS&ME, Inc.	S	Section, Township, Range:	s	т	R
Landform (hillslope, terrace, etc.):	: Hillslope	Lo	cal relief (concave, convex,	none): C	oncave Slop	e: 0.0% / 0.0 °
Subregion (LRR or MLRA): MLF	RA 136 in LRR P		4 9291 L o	— 20 ng.: - 81.77	 704	Datum: NAD83
Soil Map Unit Name: Toccoa Fin					classification: Upla	
Are climatic/hydrologic conditions	s on the site typi	cal for this time of year?	? Yes • No O (If no	o, explain in	Remarks.)	
Are Vegetation, Soil	, or Hydrolog				•	Yes No
Are Vegetation . , Soil .	, or Hydrolog				answers in Remark	(s.)
Summary of Findings - A	, ,		•	-		
Hydrophytic Vegetation Present?		No 💿				
Hydric Soil Present?		No •	Is the Sampled Area	Yes O N	n (•)	
Wetland Hydrology Present?	Yes 🔾 I	No •	within a Wetland?	100	0	
Remarks: Data point taken outside of the	edge of Wetland	1 A.				
Hydrology						
Wetland Hydrology Indicators:				Secondary	Indicators (minimum c	of two required)
Primary Indicators (minimum of	fone required; c			Surface	e Soil Cracks (B6)	
Surface Water (A1)		True Aquatic Plants (B	· ·		ly Vegetated Concave	Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Odo	` '		ge Patterns (B10)	
Saturation (A3)			s along Living Roots (C3)		rim Lines (B16)	
Water Marks (B1)		Presence of Reduced	` '		ason Water Table (C2)	
Sediment Deposits (B2)		Recent Iron Reduction			h Burrows (C8)	
Drift deposits (B3)		Thin Muck Surface (C7	•		tion Visible on Aerial In	
Algal Mat or Crust (B4)		Other (Explain in Rem	arks)		d or Stressed Plants (D	1)
Iron Deposits (B5)	- (07)				rphic Position (D2)	
Inundation Visible on Aerial Imag	gery (B/)				v Aquitard (D3)	
Water-Stained Leaves (B9)					ppographic Relief (D4)	
Aquatic Fauna (B13)				FAC-ne	eutral Test (D5)	
Field Observations: Surface Water Present? Yes	O No •	Depth (inches):				
Catumatian Dusasant?		Depth (inches):	Wetland Hyd	drology Pres	ent? Yes	No •
(includes capillary fringe) Yes	O No O	Depth (inches):				
Describe Recorded Data (stream	gauge, monitor	ing well, aerial photos, p	previous inspections), if ava	ailable:		
Remarks:						
Hydrology indicators were not ol	hserved					
l l l l l l l l l l l l l l l l l l l	boci ved.					

	Species?			Sampling Point: WET A-UP			
	Absolute	Rel.Strat.	Indicator	Dominance Test worksheet:			
Tree Stratum (Plot size: <u>30-ft.</u>)	% Cover	Cover	Status	N 1 (2 : 16 :			
1 Liquidambar styraciflua	25	✓ 50.0%	FAC	Number of Dominant Species That are OBL, FACW, or FAC:3(A)			
				That are obt., racw, or rac.			
2. Liriodendron tulipifera			FACU	Total Number of Dominant			
3	0	0.0%		Species Across All Strata:6(B)			
4	0	0.0%					
5	0	0.0%		Percent of dominant Species			
		0.0%		That Are OBL, FACW, or FAC: 50.0% (A/B)			
6							
7	0			Prevalence Index worksheet:			
8	0	0.0%		Total % Cover of: Multiply by:			
	50	= Total Cover		OBL species			
Sapling-Sapling/Shrub Stratum (Plot size: 15-ft.) —			FACW species 0 x 2 = 0			
1 Acer rubrum	15	✓ 100.0%	FAC				
2		0.0%		FAC species $45 \times 3 = 135$			
		0.0%		FACU species $55 \times 4 = 220$			
3				UPL species $0 \times 5 = 0$			
4	0	0.0%					
5	0	0.0%		Column Totals: 100 (A) 355 (B)			
6.	_	0.0%		Prevalence Index = $B/A = 3.550$			
		0.0%		Frevalence fridex – b/A –			
7				Hydrophytic Vegetation Indicators:			
8	0			Rapid Test for Hydrophytic Vegetation			
9	0	0.0%		Dominance Test is > 50%			
10		0.0%					
10.		= Total Cover		Prevalence Index is ≤3.0 ¹			
Shrub Stratum (Plot size: 15-ft.)				Morphological Adaptations ¹ (Provide supporting			
1. Ligustrum sinense	20	✓ 66.7%	FACU	data in Remarks or on a separate sheet)			
2. Ilex opaca		33.3%	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)			
		0.0%		1 Indicators of hydric call and watland hydrology much			
3				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
4	0						
5	0	0.0%		Definition of Vegetation Strata:			
6.		0.0%		Four Vegetation Strata:			
		0.0%		Tree stratum – Consists of woody plants, excluding vines, 3 in.			
7				(7.6 cm) or more in diameter at breast height (DBH),			
Herb Stratum (Plot size: <u>5-ft.</u>)	30	= Total Cover		regardless of height.			
1	0	0.0%		Sapling/shrub stratum – Consists of woody plants, excluding			
		0.0%		vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.			
2				Herb stratum – Consists of all herbaceous (non-woody) plants, regardless of size, and all other plants less than 3.28 ft tall.			
3	0			, ,			
4	0	0.0%		Woody vines – Consists of all woody vines greater than 3.28 ft			
5.	0	0.0%		in height.			
		0.0%					
6				Five Vegetation Strata:			
7	0			Tree - Woody plants, excluding woody vines, approximately 20			
8	0			ft (6 m) or more in height and 3 in. (7.6 cm) or larger in			
9	0	0.0%		diameter at breast height (DBH).			
10		0.0%		Sapling stratum – Consists of woody plants, excluding woody			
		\neg		vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.			
11	0			` '			
12	0	0.0%		Shrub stratum – Consists of woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.			
Woody Vine Stratum (Plot size: <u>30-ft.</u>)	0	= Total Cover		Herb stratum – Consists of all herbaceous (non-woody) plants,			
	_	✓ 100.0%	FAC	including herbaceous vines, regardless of size, and woody			
1. Vitis rotundifolia	5	100.0%	FAC	species, except woody vines, less than approximately 3 ft (1			
2	0	0.0%		m) in height.			
3	0	0.0%		Woody vines – Consists of all woody vines, regardless of			
	0	0.0%		height.			
4							
5				Hydrophytic			
6	0	0.0%		Vegetation			
	5	= Total Cover		Present? Yes No •			
Remarks: (Include photo numbers here or on a separate she	et.)						
Hydrophytic vegetation was not observed.							

Soil Sampling Point: WET A-UP

Profile Descr			needed to document	the indic	ator or co	nfirm the a	absence of indicators.)	
Depth	Matrix			lox Featu	res			
(inches)	Color (moist)		Color (moist)	%	Tvpe 1	Loc2	<u>Texture</u>	Remarks
1-3	10YR 4/2						Sandy Loam	
3-10	10YR 5/3	100					Sandy Loam	
10-20	10YR 5/4	100					Sandy Loam	
-								
	n							
-						-		
1 T C. Com		ion DM Dod	and Matrix CC Covers	d C	- C	21	tion. Di Dove Lining M. M.	
		ion. RM=Redi	iced Matrix, CS=Covere	d or Coate	ed Sand Gra	iins ²Loca	tion: PL=Pore Lining. M=Ma	
Hydric Soil I				` 7 \			Indicators for Proble	ematic Hydric Soils ³ :
Histosol (Dark Surface (S	,	CO) /MI D *	1/17 1/10\	2 cm Muck (A10)	(MLRA 147)
Black Hist	pedon (A2)		☐ Polyvalue Below☐ Thin Dark Surfa				Coast Prairie Redo	ox (A16)
	Sulfide (A4)		Loamy Gleyed I			.40)	(MLRA 147,148)	
	Layers (A5)		Depleted Matrix				Piedmont Floodpla (MLRA 136, 147)	ain Soils (F19)
	k (A10) (LRR N)		Redox Dark Sur	` ,				Curfoco (TE12)
	Below Dark Surface (Ά11)	Depleted Dark	` ,	7)		☐ Very Shallow Dark	
	k Surface (A12)	,,,,,,	Redox Depressi	•	,		Other (Explain in	Remarks)
	ıck Mineral (S1) (LRR	N.	Iron-Manganes	e Masses (F12) (LRR	N,		
MLRA 147	7, 148)	,	MLRA 136)					
Sandy Gle	eyed Matrix (S4)		Umbric Surface	(F13) (ML	.RA 136, 12	.2)	3 7	hydrophytic vegetation and
Sandy Re	dox (S5)		Piedmont Flood	lplain Soils	(F19) (MLI	RA 148)	wetland hyd	Irology must be present,
Stripped I	Matrix (S6)		Red Parent Mat	erial (F21)	(MLRA 12	7, 147)	unless dis	sturbed or problematic.
Restrictive L	ayer (if observed):							
Туре:								
Depth (inc	hes):						Hydric Soil Present?	Yes O No 💿
Remarks:							ı	
Hydric soil inc	dicators were not o	observed.						
,								
í								

Project/Site: Pacolet Quarry Site			City/County:	Spartanburg/Spa	artanbu	rg Samplir	ng Date:	20-Dec-22	
Applicant/Owner: River Bend Aggr	egates, LLC			State: S0	С	Sampling Poin	nt:	WET D-WET	
Investigator(s): Chris Daves, P.W.	SS&ME, Inc.		Section, Tow	nship, Range: S	5	т	R		
Landform (hillslope, terrace, etc.):	Base of hil	Islope	Local relief (co	ncave, convex,	none):	concave	Slope:	0.0% / 0.) °
Subregion (LRR or MLRA): MLR	A 136 in LRR I		34.9344	Lo	na.: -	81.7745	Da	atum: NAD83	_
Soil Map Unit Name: Toccoa Fine			3 1123 1 1		_	NWI classification:	Upland		
Are climatic/hydrologic conditions			ar? Yes 💿	No O (If no	o, expla	nin in Remarks.)			
Are Vegetation, Soil	, or Hydrol	_	ly disturbed?	•		mstances" present?	Yes	● No ○	
Are Vegetation . , Soil .	, or Hydrol		roblematic?			n any answers in Re			
Summary of Findings - A					-	-	-	eatures, etc	: .
Hydrophytic Vegetation Present?		No O			-				
Hydric Soil Present?	Yes	No O	Is the	Sampled Area		● No ○			
Wetland Hydrology Present?	Yes	No O		a Wetland?	Yes	● No ∪			
Remarks:									
Data point taken on the inside e	age of Welland								
Hydrology									
Wetland Hydrology Indicators:					Seco	ndary Indicators (minim	num of two	required)	
Primary Indicators (minimum of	one required;					urface Soil Cracks (B6)			
Surface Water (A1)		True Aquatic Plants	-			parsely Vegetated Cond		ce (B8)	
High Water Table (A2)		Hydrogen Sulfide C	` ,	(22)		Prainage Patterns (B10)			
Saturation (A3)		Oxidized Rhizosphe		Roots (C3)		loss Trim Lines (B16)	(62)		
		Presence of Reduce	` '	(66)		Ory Season Water Table	(C2)		
Drift deposits (B3)		Recent Iron Reduct		(C6)		rayfish Burrows (C8) aturation Visible on Aer	rial Imago	n/ (C0)	
Algal Mat or Crust (B4)		☐ Thin Muck Surface	• •			tunted or Stressed Plan	_	y (C9)	
Iron Deposits (B5)		Other (Explain in R	temarks)			Geomorphic Position (D2	. ,		
☐ Inundation Visible on Aerial Imag	gery (B7)					hallow Aquitard (D3)	-/		
✓ Water-Stained Leaves (B9)	, , , ,					licrotopographic Relief	(D4)		
Aquatic Fauna (B13)						AC-neutral Test (D5)	` ,		
Field Observations:						. ,			
Surface Water Present? Yes	O No 💿	Depth (inches):							
Water Table Present? Yes	○ No ●	Depth (inches):							
Saturation Present? (includes capillary fringe) Yes	No ○	Depth (inches):	8	Wetland Hyd	Irology	Present? Yes	No	0	
(includes capillary fringe) Describe Recorded Data (stream			s, previous insp	pections), if ava	ilable:				
Remarks:									
Hydrology indicators were observ	ved.								

		Dominant English		Sampling Point: WET D-WET
	Absolute % Cover		Indicator Status	Dominance Test worksheet:
1. Platanus occidentalis	20	✓ 36.4%	FACW	Number of Dominant Species That are OBL, FACW, or FAC:5(A)
2. Betula nigra	15	✓ 27.3%	FACW	Tabel Namber of Device at
3. Liquidambar styraciflua	10	18.2%	FAC	Total Number of Dominant Species Across All Strata: 6 (B)
4. Ulmus americana	10	18.2%	FACW	
5	0			Percent of dominant Species That Are OBL, FACW, or FAC: 83.3% (A/B)
6	0			That Are OBL, FACW, OF FAC.
7	0	0.0%		Prevalence Index worksheet:
8	0	0.0%		Total % Cover of: Multiply by:
Sapling-Sapling/Shrub Stratum (Plot size: 15-ft.)	55	= Total Cover		OBL species x 1 =
1 Betula nigra	15	✓ 50.0%	FACW	FACW species <u>60</u> x 2 = <u>120</u>
Carpinus caroliniana		50.0%	FAC	FAC species $\underline{55}$ x 3 = $\underline{165}$
3		0.0%		FACU species $25 \times 4 = 100$
4		0.0%		UPL species $0 \times 5 = 0$
5		0.0%		Column Totals: <u>140</u> (A) <u>385</u> (B)
6	_	0.0%		Prevalence Index = B/A = 2.750
7	-	0.0%		,
8		0.0%		Hydrophytic Vegetation Indicators:
9.		0.0%		□ Rapid Test for Hydrophytic Vegetation □ Dominance Test is > 50%
10		0.0%		I =
		= Total Cover		
Shrub Stratum (Plot size: 15-ft.) 1. Ligustrum sinense	25	✓ 100.0%	FACU	Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet)
Liqustrum sinense 2.		0.0%	17100	Problematic Hydrophytic Vegetation ¹ (Explain)
3		0.0%		¹ Indicators of hydric soil and wetland hydrology must
4		0.0%		be present, unless disturbed or problematic.
5		0.0%		Definition of Vegetation Strata:
6.		0.0%		Four Vegetation Strata:
7	0	0.0%		Tree stratum – Consists of woody plants, excluding vines, 3 in.
		= Total Cover		(7.6 cm) or more in diameter at breast height (DBH), regardless of height.
Herb Stratum (Plot size: <u>5-ft.</u>)	30	✓ 100.0%	EAC	Sapling/shrub stratum – Consists of woody plants, excluding
1. Microstegium vimineum		0.0%	FAC	vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
2	0	0.0%		Herb stratum – Consists of all herbaceous (non-woody) plants, regardless of size, and all other plants less than 3.28 ft tall.
3	0	0.0%		Woody vines – Consists of all woody vines greater than 3.28 ft
4 5	0	0.0%		in height.
6	0	0.0%		
7		0.0%		Five Vegetation Strata:
8	0	0.0%		Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in
9	0	0.0%		diameter at breast height (DBH).
7 1		0.0%		Sapling stratum – Consists of woody plants, excluding woody
10 11	0	0.0%		vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
12	0	0.0%		Shrub stratum – Consists of woody plants, excluding woody
		= Total Cover		vines, approximately 3 to 20 ft (1 to 6 m) in height.
Woody Vine Stratum (Plot size: 30-ft.)	0	0.0%		Herb stratum – Consists of all herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
1	0	0.0%		species, except woody vines, less than approximately 3 ft (1 m) in height.
2	0	0.0%		Woody vines – Consists of all woody vines, regardless of
3		0.0%		height.
4	0	0.0%		
5	0	0.0%		Hydrophytic
6	0	= Total Cove		Present? Yes ● No ○
		- rotal Cove	1	
Remarks: (Include photo numbers here or on a separate sheel Hydrophytic vegetation was observed.	t.)			

Soil Sampling Point: WET D-WET

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)												
Depth	Matrix		Re	dox Featu	res							
(inches)	Color (moist)		Color (moist)	%_	Tvpe 1	Loc2	Texture	Remarks				
1-20	10YR 5/2	90	10YR 5/6	10	C	M	Sandy Loam					
				-								
				-			-					
			-	-								
¹ Type: C=Cond	centration. D=Depletion	n. RM=Reduce	ed Matrix. CS=Covere	ed or Coate	d Sand Gra	ins ² Locat	tion: PL=Pore Lining, M=Ma	trix				
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ² Location: PL=Pore Lining. M=Matrix Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ :												
Histosol (A			Dark Surface (S7)			Indicators for Proble	matic Hydric Soils ³ :				
Histosof (A	•		Polyvalue Belov	•	S8) (MI DA	147 148)	2 cm Muck (A10) (MLRA 147)				
Black Histi			Thin Dark Surfa				Coast Prairie Redo	x (A16)				
	Sulfide (A4)		Loamy Gleyed			40)	(MLRA 147,148)					
	Layers (A5)		✓ Depleted Matrix				Piedmont Floodpla (MLRA 136, 147)	in Soils (F19)				
	(A10) (LRR N)		Redox Dark Su				_	Confere (TF12)				
	Below Dark Surface (A:	11\	Depleted Dark	. ,	7)		☐ Very Shallow Dark					
	Surface (A12)	11)	Redox Depress		,		Other (Explain in R	lemarks)				
			☐ Iron-Manganes	. ,	F12) (I RR I	٧.						
MLRA 147	ck Mineral (S1) (LRR N , 148)	,	MLRA 136)	(/ (-,						
Sandy Gle	yed Matrix (S4)		Umbric Surface	e (F13) (ML	RA 136, 12	2)	2					
Sandy Red	dox (S5)		Piedmont Floor	dplain Soils	(F19) (MLF	RA 148)	³ Indicators of h	ydrophytic vegetation and ology must be present,				
Stripped M	latrix (S6)		Red Parent Ma	terial (F21)	(MLRA 127	7, 147)		curbed or problematic.				
Do atulativa La	(if abanual).											
	yer (if observed):											
Type:							Hydric Soil Present?	Yes No				
Depth (inch	ies):											
Remarks:												
Hydric soil ind	licators were observ	∕ed.										

Project/Site: Pacolet Quarry Site			City/County:	Spartanburg/Spa	artanburg	Sampling	Date: 20-	Dec-22
Applicant/Owner: River Bend Aggre	gates, LLC			State: S0	С	Sampling Point:	W	ET D-UP
Investigator(s): Chris Daves, P.W.S	SS&ME, Inc.		Section, Town	nship, Range: S	<u> </u>	т	R	
Landform (hillslope, terrace, etc.):	Hillslope		Local relief (co	ncave, convex,	none):	S	lope: 0.0	0.0 °
Subregion (LRR or MLRA): MLRA	 A 136 in LRR F	P Lat. :	34.9344	Lo	ng.: -81.77	 743	-	m: NAD83
Soil Map Unit Name: Toccoa Fine			3 1133 1 1			classification:		
Are climatic/hydrologic conditions			ar? Yes 💿	No (If no	o, explain in	_		
Are Vegetation, Soil	on the site typ , or Hydrold	_	y disturbed?	•		nces" present?	Yes •	No O
	•					•		
Are Vegetation, Soil	, or Hydrolo	ogy 🗌 naturally pr	roblematic?	(If needed,	explain any	answers in Rem	arks.)	
Summary of Findings - A	ttach site	map showing sa	ampling po	int location	ns, trans	ects, import	ant feat	tures, etc.
Hydrophytic Vegetation Present?	Yes O	No 💿						
Hydric Soil Present?	Yes 🔾	No •	Is the	Sampled Area	Yes O N	ıo (®)		
Wetland Hydrology Present?	Yes \bigcirc	No •	within	a Wetland?	163 C IV	IO ()		
Remarks:								
Data point taken outside of the e	dge of Wetlar	nd D.						
·								
Hydrology								
Wetland Hydrology Indicators:					Secondary	Indicators (minimu	m of two rec	quired)
Primary Indicators (minimum of o	one required;	check all that apply)				e Soil Cracks (B6)		
Surface Water (A1)		True Aquatic Plants	(B14)		Sparse	ly Vegetated Conca	ve Surface (B8)
High Water Table (A2)		Hydrogen Sulfide O	dor (C1)		Draina	ge Patterns (B10)		
Saturation (A3)		Oxidized Rhizospher	res along Living F	Roots (C3)	Moss T	rim Lines (B16)		
Water Marks (B1)		Presence of Reduce	ed Iron (C4)		Dry Se	ason Water Table (C2)	
Sediment Deposits (B2)		Recent Iron Reducti	ion in Tilled Soils	(C6)	Crayfis	h Burrows (C8)		
Drift deposits (B3)		Thin Muck Surface ((C7)		Satura	tion Visible on Aeria	l Imagery (C	. 9)
Algal Mat or Crust (B4)		Other (Explain in Re	emarks)		Stunte	d or Stressed Plants	(D1)	
Iron Deposits (B5)					Geomo	orphic Position (D2)		
Inundation Visible on Aerial Image	ery (B7)				Shallov	v Aquitard (D3)		
Water-Stained Leaves (B9)						opographic Relief (D	94)	
Aquatic Fauna (B13)					FAC-ne	eutral Test (D5)		
Field Observations:	○ ••• ○							
Surface Water Present? Yes		Depth (inches):						
Water Table Present? Yes	○ No •	Depth (inches):		M/-H		ent? Yes	No 💿	
Saturation Present? (includes capillary fringe) Yes	O No	Depth (inches):		Wetland Hyd	Irology Pres	ent? res 🔾	NO S	
Describe Recorded Data (stream of	gauge, monito	oring well, aerial photos	s, previous insp	ections), if ava	ilable:			
,								
Remarks:								
Hydrology indicators were not obs	served.							

		—Species? —		Sampling Point: WET D-UP			
	Absolute	Rel.Strat.	Indicator	Dominance Test worksheet:			
Tree Stratum (Plot size: <u>30-ft.</u>)	% Cover	Cover	Status				
			E4.0	Number of Dominant Species			
1. Pinus taeda	60	100.0%	FAC	That are OBL, FACW, or FAC: (A)			
2		0.0%					
		0.0%		Total Number of Dominant			
3				Species Across All Strata: 4 (B)			
4	0	0.0%					
5	0	0.0%		Percent of dominant Species			
	_			That Are OBL, FACW, or FAC: 50.0% (A/B)			
6	0						
7	0	0.0%		Prevalence Index worksheet:			
8		0.0%		Total % Cover of: Multiply by:			
0	- —						
Olot size: 1E ft	60	= Total Cover		OBL species 0 x 1 = 0			
Sapling-Sapling/Shrub Stratum (Plot size: 15-ft.	'			FACW species0 x 2 =0			
1 Liquidambar styraciflua	5	✓ 100.0%	FAC				
2	0	0.0%		FAC species $\underline{65}$ x 3 = $\underline{195}$			
2				FACU species $20 \times 4 = 80$			
3	0	0.0%		·			
4	0	0.0%		UPL species $0 \times 5 = 0$			
••		0.0%		Column Totals: <u>85</u> (A) <u>275</u> (B)			
5							
6	0	0.0%		Prevalence Index = $B/A = 3.235$			
7	0	0.0%		· —			
7				Hydrophytic Vegetation Indicators:			
8	0	0.0%		Rapid Test for Hydrophytic Vegetation			
9.	0	0.0%					
		0.00/		☐ Dominance Test is > 50%			
10	0			Prevalence Index is ≤3.0 ¹			
Shrub Stratum (Plot size: 15-ft.)	5	= Total Cover		Morphological Adaptations ¹ (Provide supporting			
	4.5	400.004	E4.011	data in Remarks or on a separate sheet)			
1. Ligustrum sinense	15	✓ 100.0%	FACU	l — · · · · · · · · · ·			
2	0	0.0%		☐ Problematic Hydrophytic Vegetation ¹ (Explain)			
		0.0%		1 Indicators of hydric coil and wetland hydrology much			
3		0.070		Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
4	0	0.0%		be present, unless disturbed of problematic.			
5		0.0%		Definition of Vegetation Strata:			
				<u> </u>			
6	0			Four Vegetation Strata:			
7	0	0.0%		Tree stratum – Consists of woody plants, excluding vines, 3 in.			
		= Total Cover		(7.6 cm) or more in diameter at breast height (DBH), regardless of height.			
Herb Stratum (Plot size: <u>5-ft.</u>)	15	- Total Cover		-			
1. Polystichum acrostichoides	5	✓ 100.0%	FACU	Sapling/shrub stratum – Consists of woody plants, excluding			
				vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.			
2	0			Herb stratum – Consists of all herbaceous (non-woody) plants,			
3	0	0.0%		regardless of size, and all other plants less than 3.28 ft tall.			
4		0.0%		Woody vines – Consists of all woody vines greater than 3.28 ft			
4				in height.			
5	0	0.0%					
6.	0	0.0%		Fire Venetation Charter			
	0	0.0%		Five Vegetation Strata:			
7				Tree - Woody plants, excluding woody vines, approximately 20			
8	0	0.0%		ft (6 m) or more in height and 3 in. (7.6 cm) or larger in			
9	0	0.0%		diameter at breast height (DBH).			
				Sapling stratum – Consists of woody plants, excluding woody			
10	0	0.0%		vines, approximately 20 ft (6 m) or more in height and less			
11	0	0.0%		than 3 in. (7.6 cm) DBH.			
40	0	0.00/		Shrub stratum – Consists of woody plants, excluding woody			
12				vines, approximately 3 to 20 ft (1 to 6 m) in height.			
Woody Vine Stratum (Plot size: <u>30-ft.</u>)	5	= Total Cover		Herb stratum – Consists of all herbaceous (non-woody) plants,			
	0	0.00/		including herbaceous vines, regardless of size, and woody			
1				species, except woody vines, less than approximately 3 ft (1			
2	0	0.0%		m) in height.			
2	0	0.0%		Woody vines – Consists of all woody vines, regardless of			
3				height.			
4	0	0.0%					
	0	0.0%					
5				Hydrophytic			
6	0	0.0%		Vegetation			
	0	= Total Cover		Present? Yes V No V			
				l			
Remarks: (Include photo numbers here or on a separate shee	et.)						
Hydrophytic vegetation was not observed.							
-							

Soil Sampling Point: WET D-UP

Profile Descri	iption: (Describe to	the depth	needed to document	the indic	ator or co	nfirm the a	absence of indicators.)	
Depth	Matrix		Rec	lox Featu	res			
(inches)	Color (moist)	%	Color (moist)	%	Type 1	Loc2	Texture	Remarks
1-3	10YR 4/2	100					Loamy Sand	
3-8	10YR 5/4	100					Sandy Loam	
8-20	10YR 5/6	100					Loamy Clay	
							-	
-						-	-	
¹ Type: C=Cond	centration. D=Depleti	on. RM=Redu	uced Matrix, CS=Covere	d or Coate	d Sand Gra	ins ² Loca	tion: PL=Pore Lining. M=Ma	atrix
Hydric Soil I	ndicators:						Indicators for Proble	amatic Hydric Soils ³
Histosol (A			Dark Surface (S	57)				-
	pedon (A2)		Polyvalue Belov		S8) (MLRA	147,148)	2 cm Muck (A10)	
Black Histi			Thin Dark Surfa				Coast Prairie Redo	ox (A16)
	Sulfide (A4)		Loamy Gleyed !		·	•	(MLRA 147,148)	. 6 .1 (510)
Stratified I	Layers (A5)		Depleted Matrix				Piedmont Floodpla (MLRA 136, 147)	ain Solis (F19)
2 cm Muck	k (A10) (LRR N)		Redox Dark Sur				Very Shallow Dark	k Surface (TE12)
Depleted I	Below Dark Surface (A11)	Depleted Dark S	Surface (F7	')		Other (Explain in	
Thick Dark	k Surface (A12)	,	Redox Depressi	ons (F8)			Outer (Explain in	icinario)
	ck Mineral (S1) (LRR	N,	Iron-Manganese MLRA 136)	e Masses (F12) (LRR	N,		
			Umbric Surface	(F13) (MI	RA 136, 12	2)		
	eyed Matrix (S4)		☐ Piedmont Flood				³ Indicators of	hydrophytic vegetation and
Sandy Red							wetland hyd	Irology must be present, sturbed or problematic.
Suripped iv	vidurix (56)		Red Parent Mat	eriai (F21)	(MLKA 12.	/, 14/)	uniess dis	sturbed or problematic.
Restrictive La	ayer (if observed):							
Туре:								
Depth (inch	hes):						Hydric Soil Present?	Yes ○ No •
Remarks:							1	
	dicators were not o	bserved.						
Tryanc son me	areators were not o	boci vedi						

Project/Site: P	Pacolet Quarry S	Site		City/County:	Spartanburg/Spa	artanbı	urg Sam	pling Date	: 05-Jan-23
Applicant/Owner	r: River Bend	Aggregates, LLC			State: SC	С	Sampling I	Point:	WET J-WET
Investigator(s):	Chris Handle	y, S&ME, Inc.		Section, Tow	nship, Range: S	5	т	R	l
Landform (hillslo	ope, terrace, e	etc.): Base of h	illslope	Local relief (co	ncave, convex, r	none)	concave	Slope:	0.0% / 0.0 °
Subregion (LRR o	or MLRA):	MLRA 136 in LRR	P Lat.:	34.9448	Loi	ng.:	-81.7782		Datum: NAD83
Soil Map Unit Na	me: Pacole	Sandy Clay Loan		<u> </u>			NWI classification		
Are climatic/hyd	lrologic condi	tions on the site ty	pical for this time of ye	ear? Yes 💿	No O (If no	o, expl	lain in Remarks.)		
Are Vegetation	, Soil	, or Hydro	logy 🗌 significant	ly disturbed?	Are "Norma	l Circ	umstances" prese	nt? Yes	o No
Are Vegetation	, Soil	, or Hydro	logy 🗌 naturally p	roblematic?	(If needed,	expla	ain any answers in	Remarks.)	
Summary o	f Findings	s - Attach site	e map showing s	ampling po	oint location	ns, t	ransects, im	portant	features, etc.
Hydrophytic Ve	getation Pres		No O						
Hydric Soil Pres	sent?	Yes	No O	Is the	Sampled Area	Yes	● No ○		
Wetland Hydrol	logy Present?	Yes	No O	within	a Wetland?				
Remarks:				•					
Data point tak	en within edg	e of Wetland J.							
Hydrology									
Wetland Hydrol	logy Indicato	rs:				Seco	ondary Indicators (m	inimum of tv	wo required)
		m of one required	; check all that apply)				Surface Soil Cracks ((B6)	
Surface Wate	. ,		☐ True Aquatic Plant	-			Sparsely Vegetated		face (B8)
High Water			Hydrogen Sulfide (. ,	(22)		Drainage Patterns (E	-	
Saturation (A	•		Oxidized Rhizosphe		Roots (C3)		Moss Trim Lines (B1	•	
Water Marks Sediment De	. ,		Presence of Reduc	. ,	(66)		Dry Season Water To		
Drift deposits	,		Recent Iron Reduc		(C6)		Crayfish Burrows (CS Saturation Visible on	•	env (CQ)
Algal Mat or			Thin Muck Surface	• •			Stunted or Stressed	-	ery (C9)
Iron Deposit			Other (Explain in R	kemarks)			Geomorphic Position		
	/isible on Aerial	Imagery (B7)					Shallow Aquitard (D3		
	ed Leaves (B9)	337,()					Microtopographic Re	-	
Aquatic Faun	na (B13)						FAC-neutral Test (D		
Field Observati	ions:							,	
Surface Water Pro		Yes O No 💿	Depth (inches):						
Water Table Pres	sent?	Yes O No 💿	Depth (inches):						
Saturation Preser	nt?	Yes ● No ○	Depth (inches):	1	Wetland Hyd	Irolog	y Present? Ye	es 💿 No	\circ
(includes capillary	y iringe)					:1-1-1-			
Describe Record	ded Data (str	eam gauge, moni	toring well, aerial photo	os, previous insp	pections), if avai	ilable	:		
Remarks:									
	antore were e	boomied							
Hydrology indic	cators were o	bservea.							

Species? ————————————————————————————————————								
	Absolute		Indicator	Dominance Test worksheet:				
Tree Stratum (Plot size: <u>30-ft.</u>)	% Cover	Cover	Status					
Tree Stratum ,				Number of Dominant Species				
1	0	0.0%		That are OBL, FACW, or FAC:3 (A)				
2	0	0.0%						
				Total Number of Dominant				
3		0.0%		Species Across All Strata:4(B)				
4	0	0.0%						
5		0.0%		Percent of dominant Species				
				That Are OBL, FACW, or FAC: 75.0% (A/B)				
6	0	0.0%		, ,				
7	0	0.0%		Prevalence Index worksheet:				
		0.0%		Total % Cover of: Multiply by:				
8								
(Dist size. 15 ft	,0	= Total Cover		OBL species 0 x 1 = 0				
Sapling-Sapling/Shrub Stratum (Plot size: 15-ft.	_ <i>'</i>	_		FACW species5 x 2 =10				
1		0.0%						
		0.0%		FAC species $\underline{20}$ x 3 = $\underline{60}$				
2				FACU species $10 \times 4 = 40$				
3	0	0.0%						
4	0	0.0%		UPL species $0 \times 5 = 0$				
		0.0%		Column Totals: 35 (A) 110 (B)				
5				CO TAIRED 10 CA 110				
6	0	0.0%		Prevalence Index = $B/A = 3.143$				
7	0	0.0%		<u> </u>				
				Hydrophytic Vegetation Indicators:				
8	0			Rapid Test for Hydrophytic Vegetation				
9	0	0.0%		✓ Dominance Test is > 50%				
		0.0%		I =				
10	_			Prevalence Index is ≤3.0 ¹				
Shrub Stratum (Plot size: <u>15-ft.</u>)	0	= Total Cover		Morphological Adaptations ¹ (Provide supporting				
	10	✓ 50.0%	FACU	data in Remarks or on a separate sheet)				
1. Ilex opaca			FACU	l —				
2. Carpinus caroliniana	10	50.0%	FAC	☐ Problematic Hydrophytic Vegetation ¹ (Explain)				
3	0	0.0%		¹ Indicators of hydric soil and wetland hydrology must				
				be present, unless disturbed or problematic.				
4	0	0.0%		20 presently amost around or programmes.				
5	0	0.0%		Definition of Vegetation Strata:				
		0.0%		Four Vegetation Strata:				
6				Tree stratum – Consists of woody plants, excluding vines, 3 in.				
7	0	0.0%		(7.6 cm) or more in diameter at breast height (DBH),				
		= Total Cover		regardless of height.				
Herb Stratum (Plot size: <u>5-ft.</u>)		_		Sapling/shrub stratum – Consists of woody plants, excluding				
1. Woodwardia areolata	5	1 00.0%	FACW	vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.				
2		0.0%		1 ' ' '				
2				Herb stratum – Consists of all herbaceous (non-woody) plants, regardless of size, and all other plants less than 3.28 ft tall.				
3	0	0.0%		regardless of size, and all other plants less than 5.20 it tall.				
4	0	0.0%		Woody vines – Consists of all woody vines greater than 3.28 ft				
		0.0%		in height.				
5								
6	0	0.0%		Five Vegetation Strata:				
7		0.0%						
	_	0.006		Tree - Woody plants, excluding woody vines, approximately 20				
8				ft (6 m) or more in height and 3 in. (7.6 cm) or larger in				
9	0	0.0%		diameter at breast height (DBH).				
10		0.0%		Sapling stratum – Consists of woody plants, excluding woody				
		\neg		vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.				
11	0			` '				
12	0	0.0%		Shrub stratum – Consists of woody plants, excluding woody				
		= Total Cover		vines, approximately 3 to 20 ft (1 to 6 m) in height.				
Woody Vine Stratum (Plot size: 30-ft.)		_ 10141 00101		Herb stratum – Consists of all herbaceous (non-woody) plants,				
1 Vitis rotundifolia	10	✓ 100.0%	FAC	including herbaceous vines, regardless of size, and woody				
•		0.00/		species, except woody vines, less than approximately 3 ft (1				
2				m) in height.				
3	0	0.0%		Woody vines – Consists of all woody vines, regardless of				
4		0.0%		height.				
5	0	0.0%		Hydrophytic				
6.	0	0.0%		Vegetation				
	10	= Total Cover		Present? Yes No				
		- rotal cover						
Remarks: (Include photo numbers here or on a separate sl	heet.)							
Hydrophytic vegetation was observed.	/							
Tryatophytic vegetation was observed.								

Soil Sampling Point: WET J-WET

Profile Descr		the depth n				nfirm the a	absence of indicators.)	
Depth	Matrix			dox Featu	ires 1	1 2		Barrada
(inches) 1-20	Color (moist) 10YR 4/2	%	Color (moist) 10YR 5/6	% 10	Tvpe 1	Loc²	Texture Sandy Loam	Remarks
	101K 4/2		101K 5/0				Salidy Loalii	
			-		-			
	-			-		-	-	
¹ Type: C=Cond	centration. D=Depletio	on. RM=Reduc	ced Matrix, CS=Covere	ed or Coate	ed Sand Gra	ins ² Loca	tion: PL=Pore Lining. M=M	atrix
Hydric Soil I							Indicators for Proble	ematic Hydric Soils ³ :
Histosol (/			Dark Surface (2 cm Muck (A10)	(MLRA 147)
	pedon (A2)		Polyvalue Belov				Coast Prairie Redo	
☐ Black Hist			Thin Dark Surfa			48)	(MLRA 147,148)	v/
	Sulfide (A4)		Loamy Gleyed)		Piedmont Floodpl	
	Layers (A5)		✓ Depleted Matri				(MLRA 136, 147)	
	k (A10) (LRR N)		Redox Dark Su	` ,	7 \		Very Shallow Dar	k Surface (TF12)
	Below Dark Surface (A	11)	Depleted Dark Redox Depress	•	/)		Other (Explain in	Remarks)
	k Surface (A12)		☐ Iron-Manganes		(E12) (I DD	M		
Sandy Mu MLRA 147	ck Mineral (S1) (LRR N 7, 148)	۱,	MLRA 136)					
	eyed Matrix (S4)		Umbric Surface				3 Indicators of	hydrophytic vegetation and
Sandy Red			☐ Piedmont Floo				wetland hyd	drology must be present,
☐ Stripped N	Matrix (S6)		Red Parent Ma	terial (F21) (MLRA 12	7, 147)	unless di	sturbed or problematic.
Restrictive La	ayer (if observed):							
Type:							Hydric Soil Present?	Yes No
Depth (incl	hes):						nyunc son Present?	res so No C
Remarks:								
Hydric soil inc	dicators were obser	ved.						

Project/Site: Pacolet Quarry Site			City/County:	Spartanburg/Spa	artanbu	ırg Samp l	ing Date:	05-Jan-2	!3
Applicant/Owner: River Bend Aggre	gates, LLC			State: So	С	Sampling Po	int:	WET J	-UP
Investigator(s): Chris Handley, S&M	E, Inc.		Section, Town	nship, Range: S	5	т	R		
Landform (hillslope, terrace, etc.):	Hillslope		Local relief (co	ncave, convex,	none):	concave	Slope:	0.0%	/ _{0.0} °
Subregion (LRR or MLRA): MLRA	136 in LRR I	P	34.9447	Lo	na.:	-81.7781	D:	atum: N	
Soil Map Unit Name: Pacolet Sand			3 113 1 17		_	NWI classification:		_	
Are climatic/hydrologic conditions o			ar? Yes 💿	No O (If no	evnl	ain in Remarks.)			
Are Vegetation \square , Soil \square	or Hydrolo,	_	y disturbed?	•		ımstances" present	yes	No	\circ
						•	-		
Are Vegetation	or Hydrok, tach site	· ·	roblematic? ampling no		-	in any answers in R	-	eature	es. etc.
Hydrophytic Vegetation Present?	Yes O	No No				i aniscetto, imp	-	Catart	
	Yes O	No •	To the	Commission Area					
Hydric Soil Present?	Yes O	No •	within	Sampled Area a Wetland?	Yes	○ No ●			
Wetland Hydrology Present? Remarks:									
Data point taken outside the edge	of Wetland	J.							
Hydrology									
Wetland Hydrology Indicators:					Seco	ondary Indicators (min	imum of tw	o required)
Primary Indicators (minimum of o	ne required;					Surface Soil Cracks (B6	-		
Surface Water (A1)		☐ True Aquatic Plants	-			Sparsely Vegetated Co		ace (B8)	
☐ High Water Table (A2)☐ Saturation (A3)		Hydrogen Sulfide C	. ,)t- (C2)		Drainage Patterns (B10	-		
Water Marks (B1)		Oxidized Rhizosphe Presence of Reduce		ROOTS (C3)		Moss Trim Lines (B16) Dry Season Water Tab			
Sediment Deposits (B2)		Recent Iron Reduct	, ,	(C6)		Crayfish Burrows (C8)	ie (CZ)		
Drift deposits (B3)		☐ Thin Muck Surface		(60)		Saturation Visible on A	erial Image	ry (C9)	
Algal Mat or Crust (B4)		Other (Explain in R	• •			Stunted or Stressed Pla	_	, , ,	
☐ Iron Deposits (B5)			,			Geomorphic Position (I	02)		
Inundation Visible on Aerial Image	ry (B7)					Shallow Aquitard (D3)			
Water-Stained Leaves (B9)						Microtopographic Relie	f (D4)		
Aquatic Fauna (B13)					I	FAC-neutral Test (D5)			
Field Observations: Surface Water Present? Yes	No ●	Double (in the ca)							
		Depth (inches):							
Water Table Present? Yes		Depth (inches):		Wetland Hyd	Irology	v Present? Yes	O No	\odot	
Saturation Present? (includes capillary fringe) Yes	No 💿	Depth (inches):		Wedana nya	ii olog j	Tresent: 100			
Describe Recorded Data (stream g	auge, monito	oring well, aerial photo	s, previous insp	ections), if ava	ilable:				
Remarks:									
Hydrology indicators were not obs	erved.								

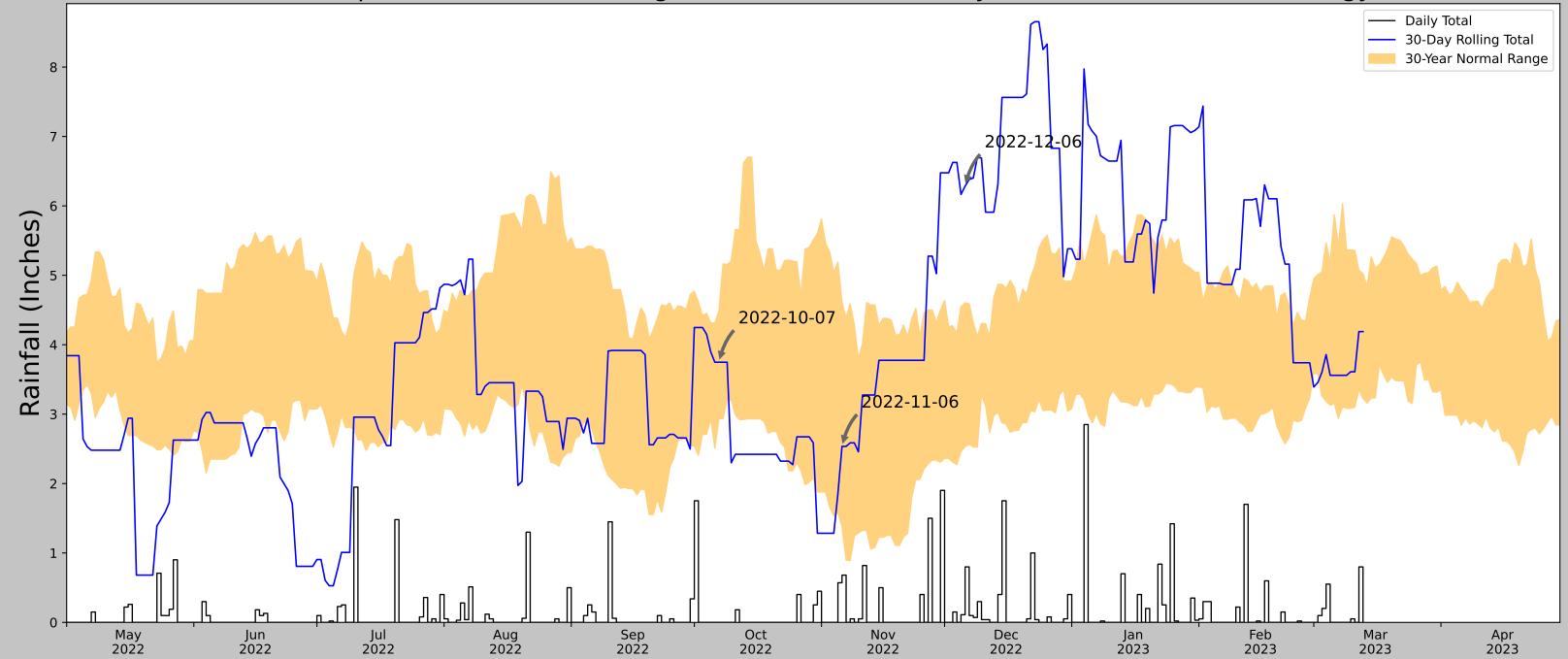
		Sampling Point: WET J-UP		
	Absolute		Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30-ft.</u>)	% Cover	Cover	Status	
1 Liriodendron tulipifera	0	0.0%	FACU	Number of Dominant Species That are OBL, FACW, or FAC: (A)
• •			1760	That are obt., FACW, or FAC.
2				Total Number of Dominant
3	0	0.0%		Species Across All Strata:3(B)
4	0	0.0%		
5		0.0%		Percent of dominant Species
		0.0%		That Are OBL, FACW, or FAC: 0.0% (A/B)
6				
7	0			Prevalence Index worksheet:
8	0	0.0%		Total % Cover of: Multiply by:
	0	= Total Cover		OBL species 0 x 1 = 0
Sapling-Sapling/Shrub Stratum (Plot size: 15-ft.)			FACW species 0 x 2 = 0
1 Fagus grandifolia	20	✓ 100.0%	FACU	
2		0.0%		FAC species $0 \times 3 = 0$
 -		0.0%		FACU species $60 \times 4 = 240$
3				UPL species $0 \times 5 = 0$
4	0	0.0%		'
5	0	0.0%		Column Totals: <u>60</u> (A) <u>240</u> (B)
6	_	0.0%		Prevalence Index = $B/A = 4.000$
		0.0%		Frevalence muex – b/A – 4.000
7				Hydrophytic Vegetation Indicators:
8	0			Rapid Test for Hydrophytic Vegetation
9	0	0.0%		Dominance Test is > 50%
10		0.0%		l
10.		= Total Cover		Prevalence Index is ≤3.0 ¹
Shrub Stratum (Plot size: 15-ft.)				Morphological Adaptations ¹ (Provide supporting
1. Ilex opaca	10	✓ 100.0%	FACU	data in Remarks or on a separate sheet)
2.		0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)
		0.0%		1 Tudiostove of hydric ceil and watland hydrology much
3				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4	0			
5	0	0.0%		Definition of Vegetation Strata:
6.		0.0%		Four Vegetation Strata:
		0.0%		Tree stratum – Consists of woody plants, excluding vines, 3 in.
7				(7.6 cm) or more in diameter at breast height (DBH),
Herb Stratum (Plot size: 5-ft.)	10	= Total Cover		regardless of height.
1. Polystichum acrostichoides	30	✓ 100.0%	FACU	Sapling/shrub stratum – Consists of woody plants, excluding
		0.0%		vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
2				Herb stratum – Consists of all herbaceous (non-woody) plants, regardless of size, and all other plants less than 3.28 ft tall.
3	0	0.0%		
4	0	0.0%		Woody vines – Consists of all woody vines greater than 3.28 ft
5.	0	0.0%		in height.
	0	0.0%		
6				Five Vegetation Strata:
7	0	0.0%		Tree - Woody plants, excluding woody vines, approximately 20
8	0	0.0%		ft (6 m) or more in height and 3 in. (7.6 cm) or larger in
9	0	0.0%		diameter at breast height (DBH).
		0.0%		Sapling stratum – Consists of woody plants, excluding woody
10				vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
11	0	0.0%		
12	0	0.0%		Shrub stratum – Consists of woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
/Plot sizes 20 ft	30	= Total Cover		1
Woody Vine Stratum (Plot size: <u>30-ft.</u>)				Herb stratum – Consists of all herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
1	0	0.0%		species, except woody vines, less than approximately 3 ft (1
2	0	0.0%		m) in height.
3.	0	0.0%		Woody vines – Consists of all woody vines, regardless of
	0			height.
4		0.0%		
5	0	0.0%		Hydrophytic
6.	0	0.0%		Vegetation
	0	= Total Cover		Present? Yes No •
				<u> </u>
Remarks: (Include photo numbers here or on a separate she	et.)			
Hydrophytic vegetation was not observed.				

Soil Sampling Point: WET J-UP

Profile Descr	iption: (Describe to	the depth n	eeded to document	the indic	ator or co	nfirm the a	absence of indicators.)	
Depth	Depth Matrix Redox Features							
(inches)	Color (moist)		Color (moist)	%	Tvpe 1	Loc2	<u>Texture</u>	Remarks
1-20	10YR 5/4	100		-			Sandy Loam	
-								
			-					
	-							
¹ Type: C=Con	centration. D=Depletio	n. RM=Reduc	ced Matrix, CS=Covere	d or Coate	ed Sand Gra	nins ² Loca	tion: PL=Pore Lining. M=M	atrix
Hydric Soil I	indicators:						Indicators for Proble	ematic Hydric Soils ³ :
Histosol (Dark Surface (57)				-
	pedon (A2)		Polyvalue Below		(S8) (MLRA	147,148)	2 cm Muck (A10)	
Black Hist	ic (A3)		Thin Dark Surfa	ice (S9) (M	ILRA 147, 1	.48)	Coast Prairie Redo (MLRA 147,148)	ox (A16)
Hydrogen	Sulfide (A4)		Loamy Gleyed	Matrix (F2))		Piedmont Floodpl	oin Coile (E10)
Stratified	Layers (A5)		Depleted Matrix	(F3)			(MLRA 136, 147)	ain Solis (F19)
2 cm Muc	k (A10) (LRR N)		Redox Dark Sui	face (F6)			Very Shallow Dar	k Surface (TF12)
Depleted	Below Dark Surface (A	11)	Depleted Dark	Surface (F	7)		Other (Explain in	
Thick Dar	k Surface (A12)	,	Redox Depress	ions (F8)			Outer (Explain in	remarks)
Sandy Mu MLRA 147	ick Mineral (S1) (LRR N 7, 148)	l,	Iron-Manganes MLRA 136)	e Masses (F12) (LRR	N,		
	eyed Matrix (S4)		Umbric Surface	(F13) (ML	RA 136, 12	22)		
Sandy Re			Piedmont Floor				³ Indicators of	hydrophytic vegetation and
	Matrix (S6)		Red Parent Ma					Irology must be present, sturbed or problematic.
			_			. ,		
	ayer (if observed):							
Type:							Hydric Soil Present?	Yes ○ No •
Depth (inc	hes):						nyunc son Presents	res Uno S
Remarks:								
Hydric soil inc	dicators were not ob	served.						

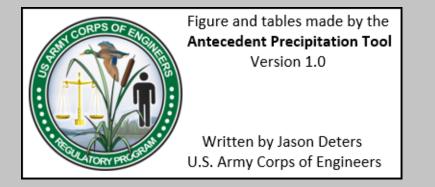
Appendix E

Antecedent Precipitation Tool

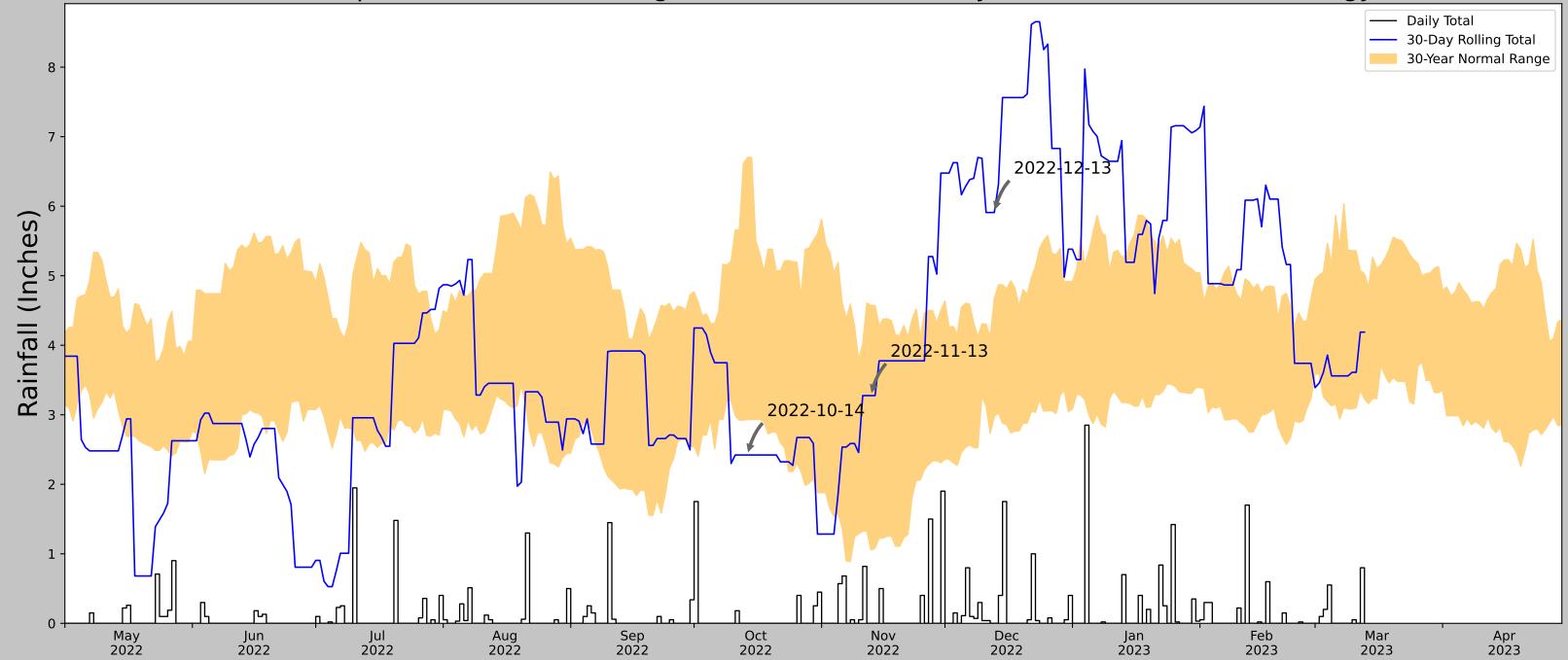


Coordinates	34.9370, -81.7681
Observation Date	2022-12-06
Elevation (ft)	623.146
Drought Index (PDSI)	Not available
WebWIMP H ₂ O Balance	Wet Season

20.5 5 11	a o th o (!)	Toth out	01 1 (1)	I.w. i	I 6 192 37 1	Tag 11 30/ 1 1 1	
30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2022-12-06	2.531102	4.603543	6.283465	Wet	3	3	9
2022-11-06	1.378347	4.614961	2.535433	Normal	2	2	4
2022-10-07	2.935827	4.495276	3.748032	Normal	2	1	2
Result							Wetter than Normal - 15

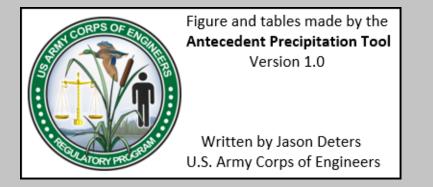


Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
SPARTANBURG 3 SSE	34.9078, -81.9139	609.908	8.503	13.238	3.939	11295	90
SPARTANBURG 3.4 ESE	34.9178, -81.8788	709.974	2.105	100.066	1.158	6	0
SPARTANBURG 3.7 SE	34.9134, -81.8748	683.071	2.249	73.163	1.177	12	0
SPARTANBURG 0.9 E	34.9462, -81.9129	784.121	2.654	174.213	1.657	22	0
SPARTANBURG 3.4 ENE	34.9572, -81.8704	702.1	4.21	92.192	2.283	10	0
SPARTANBURG 2.6 ENE	34.9627, -81.888	755.906	4.067	145.998	2.424	2	0
ROEBUCK 4.1 W	34.8852, -82.0361	698.163	7.099	88.255	3.821	3	0
SPARTANBURG 5.1 WSW	34.9304, -82.0189	829.068	6.15	219.16	4.115	1	0
CHESNEE 7 WSW	35.1108, -81.9675	748.032	14.35	138.124	8.44	2	0

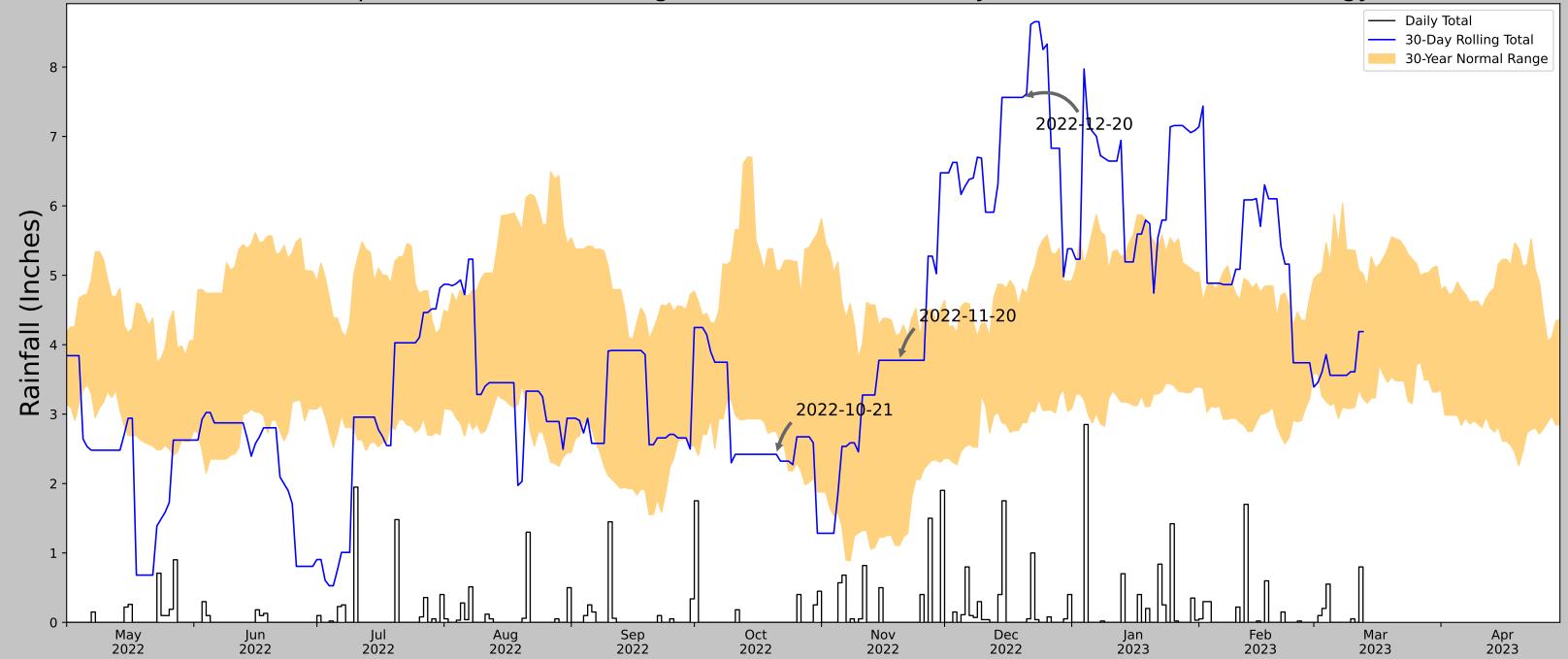


Coordinates	34.9370, -81.7681
Observation Date	2022-12-13
Elevation (ft)	623.146
Drought Index (PDSI)	Not available
WebWIMP H ₂ O Balance	Wet Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2022-12-13	2.977559	4.671654	5.909449	Wet	3	3	9
2022-11-13	1.054724	4.572441	3.275591	Normal	2	2	4
2022-10-14	2.932284	6.701575	2.42126	Dry	1	1	1
Result							Normal Conditions - 14

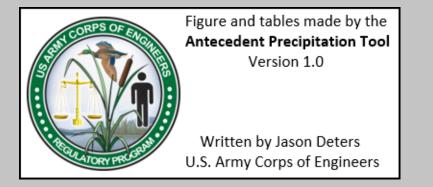


Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
SPARTANBURG 3 SSE	34.9078, -81.9139	609.908	8.503	13.238	3.939	11295	90
SPARTANBURG 3.4 ESE	34.9178, -81.8788	709.974	2.105	100.066	1.158	6	0
SPARTANBURG 3.7 SE	34.9134, -81.8748	683.071	2.249	73.163	1.177	12	0
SPARTANBURG 0.9 E	34.9462, -81.9129	784.121	2.654	174.213	1.657	22	0
SPARTANBURG 3.4 ENE	34.9572, -81.8704	702.1	4.21	92.192	2.283	10	0
SPARTANBURG 2.6 ENE	34.9627, -81.888	755.906	4.067	145.998	2.424	2	0
ROEBUCK 4.1 W	34.8852, -82.0361	698.163	7.099	88.255	3.821	3	0
SPARTANBURG 5.1 WSW	34.9304, -82.0189	829.068	6.15	219.16	4.115	1	0
CHESNEE 7 WSW	35.1108, -81.9675	748.032	14.35	138.124	8.44	2	0

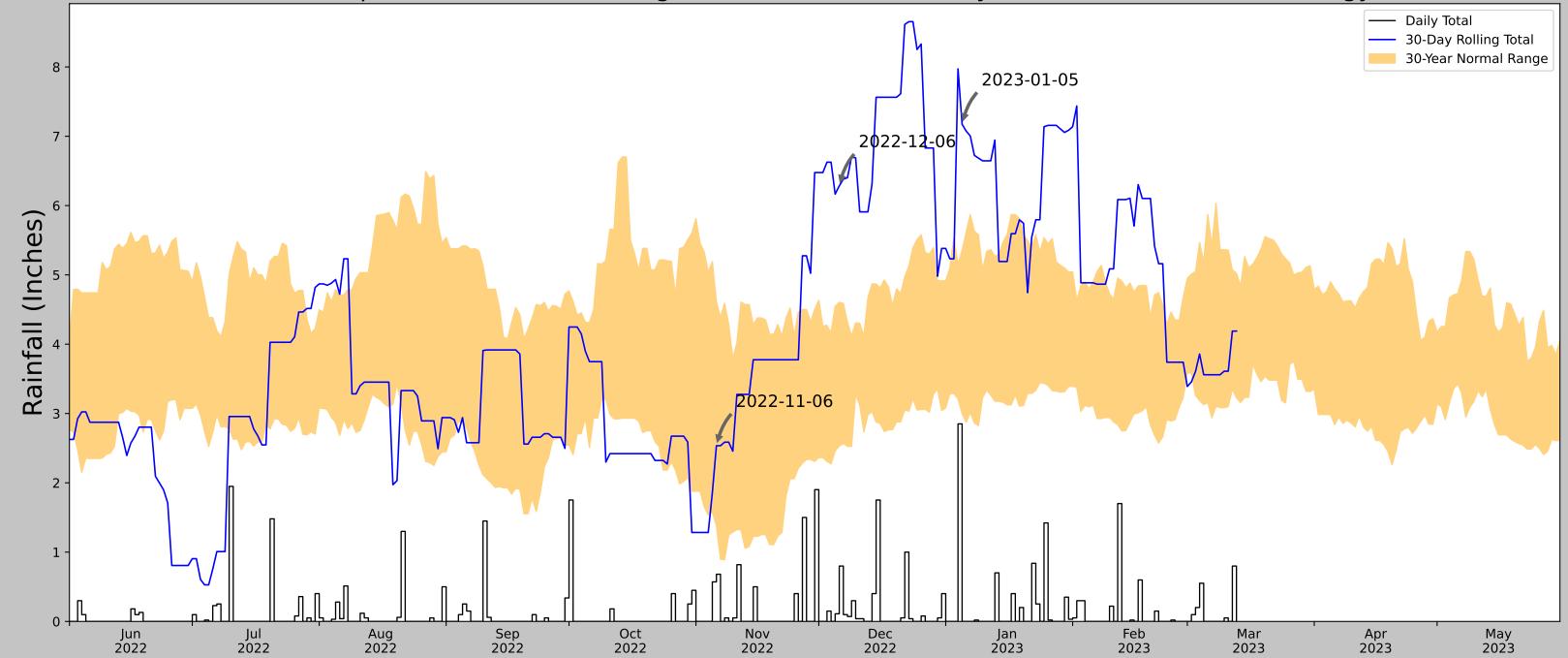


Coordinates	34.9370, -81.7681
Observation Date	2022-12-20
Elevation (ft)	623.146
Drought Index (PDSI)	Not available
WebWIMP H ₂ O Balance	Wet Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2022-12-20	2.877953	4.8	7.562992	Wet	3	3	9
2022-11-20	1.108661	4.143307	3.775591	Normal	2	2	4
2022-10-21	2.750394	5.072047	2.42126	Dry	1	1	1
Result							Normal Conditions - 14

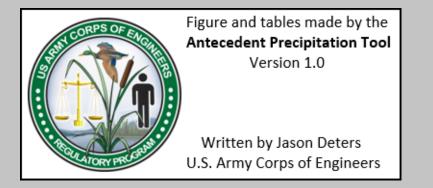


Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
SPARTANBURG 3 SSE	34.9078, -81.9139	609.908	8.503	13.238	3.939	11295	90
SPARTANBURG 3.4 ESE	34.9178, -81.8788	709.974	2.105	100.066	1.158	6	0
SPARTANBURG 3.7 SE	34.9134, -81.8748	683.071	2.249	73.163	1.177	12	0
SPARTANBURG 0.9 E	34.9462, -81.9129	784.121	2.654	174.213	1.657	22	0
SPARTANBURG 3.4 ENE	34.9572, -81.8704	702.1	4.21	92.192	2.283	10	0
SPARTANBURG 2.6 ENE	34.9627, -81.888	755.906	4.067	145.998	2.424	2	0
ROEBUCK 4.1 W	34.8852, -82.0361	698.163	7.099	88.255	3.821	3	0
SPARTANBURG 5.1 WSW	34.9304, -82.0189	829.068	6.15	219.16	4.115	1	0
CHESNEE 7 WSW	35.1108, -81.9675	748.032	14.35	138.124	8.44	2	0

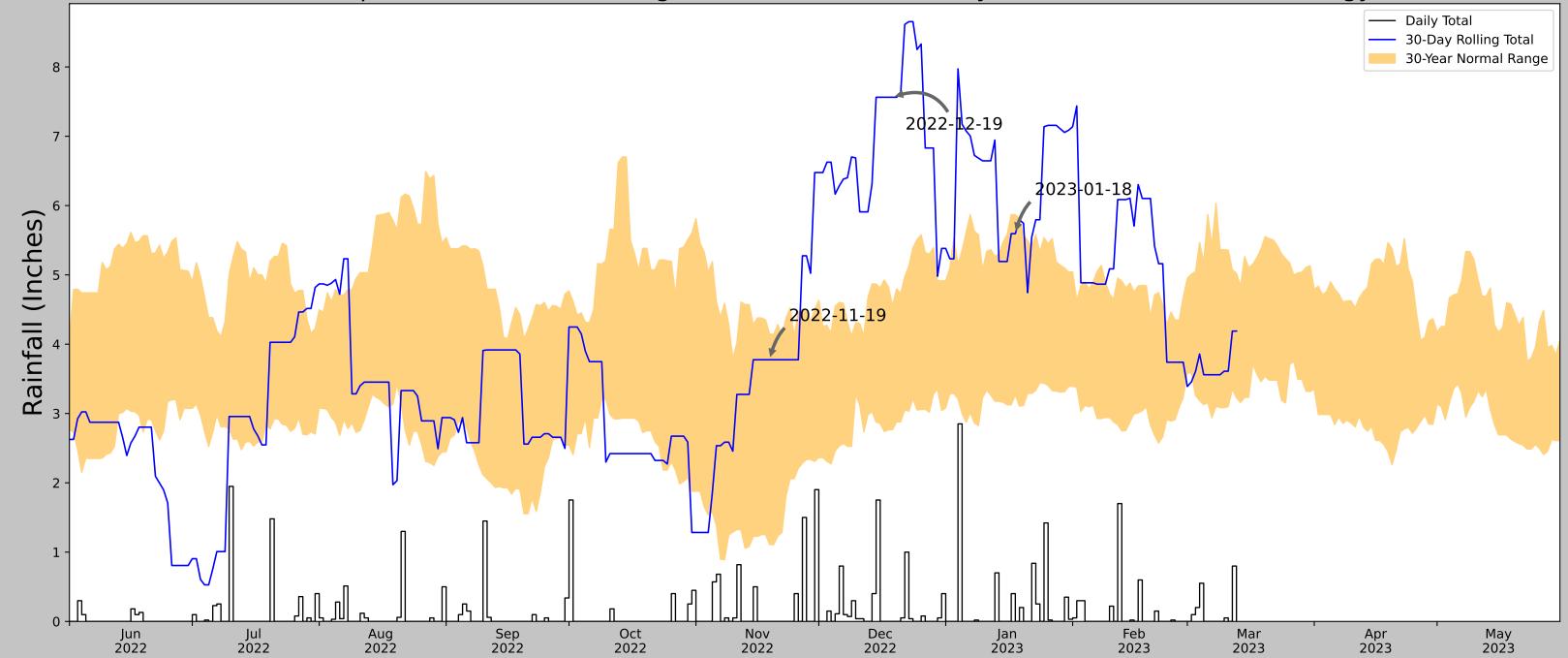


Coordinates	34.9370, -81.7681
Observation Date	2023-01-05
Elevation (ft)	623.146
Drought Index (PDSI)	Not available
WebWIMP H ₂ O Balance	Wet Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2023-01-05	2.99685	5.354331	7.173229	Wet	3	3	9
2022-12-06	2.531102	4.603543	6.283465	Wet	3	2	6
2022-11-06	1.378347	4.614961	2.535433	Normal	2	1	2
Result							Wetter than Normal - 17

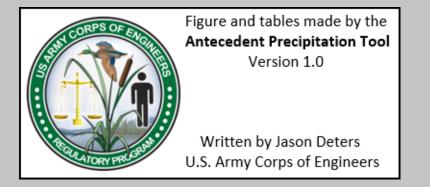


Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
SPARTANBURG 3 SSE	34.9078, -81.9139	609.908	8.503	13.238	3.939	11295	90
SPARTANBURG 3.4 ESE	34.9178, -81.8788	709.974	2.105	100.066	1.158	6	0
SPARTANBURG 3.7 SE	34.9134, -81.8748	683.071	2.249	73.163	1.177	12	0
SPARTANBURG 0.9 E	34.9462, -81.9129	784.121	2.654	174.213	1.657	22	0
SPARTANBURG 3.4 ENE	34.9572, -81.8704	702.1	4.21	92.192	2.283	10	0
SPARTANBURG 2.6 ENE	34.9627, -81.888	755.906	4.067	145.998	2.424	2	0
ROEBUCK 4.1 W	34.8852, -82.0361	698.163	7.099	88.255	3.821	3	0
SPARTANBURG 5.1 WSW	34.9304, -82.0189	829.068	6.15	219.16	4.115	1	0
CHESNEE 7 WSW	35.1108, -81.9675	748.032	14.35	138.124	8.44	2	0
<u> </u>							

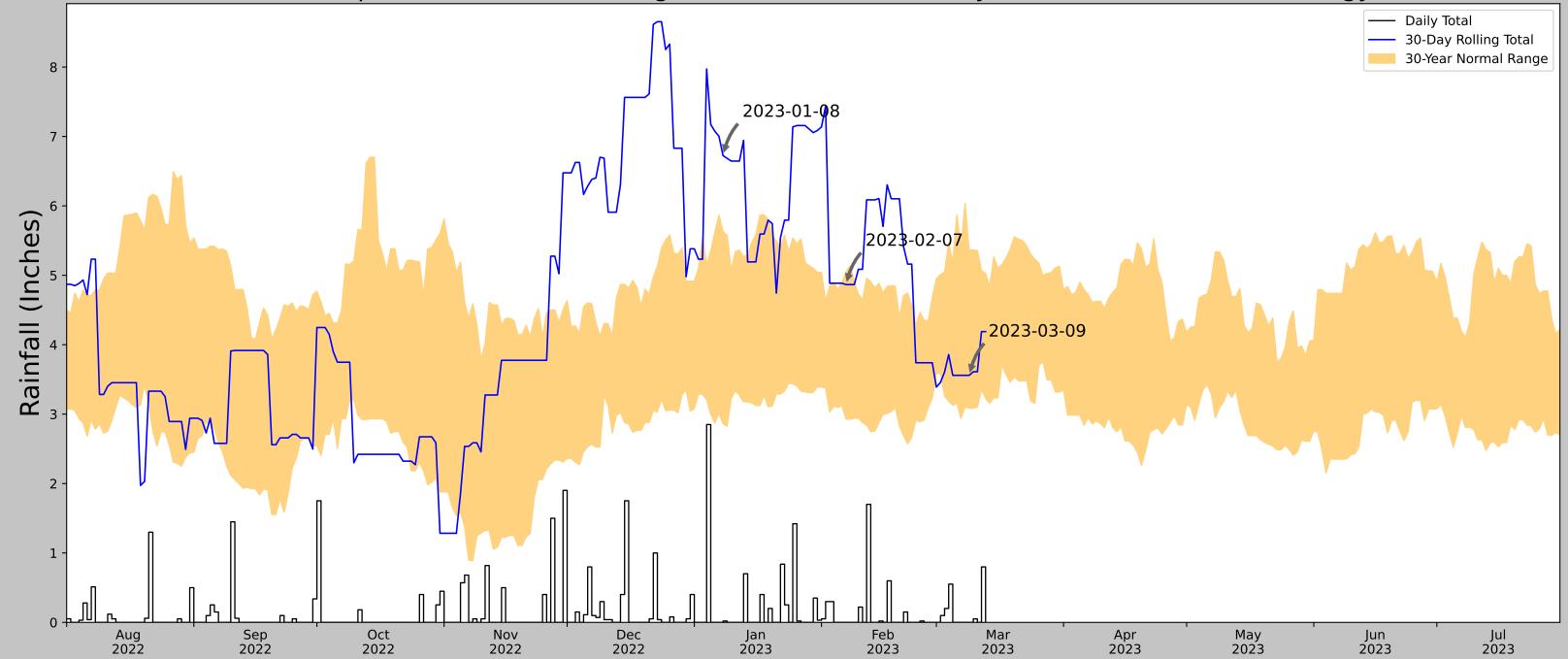


Coordinates	34.9370, -81.7681
Observation Date	2023-01-18
Elevation (ft)	623.146
Drought Index (PDSI)	Not available
WebWIMP H ₂ O Balance	Wet Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2023-01-18	3.266142	5.868898	5.594488	Normal	2	3	6
2022-12-19	2.765748	4.562599	7.562992	Wet	3	2	6
2022-11-19	1.108661	4.143307	3.775591	Normal	2	1	2
Result							Normal Conditions - 14

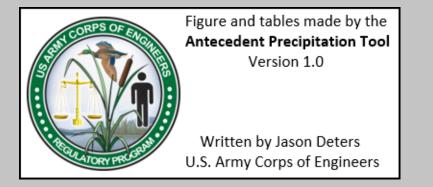


Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
SPARTANBURG 3 SSE	34.9078, -81.9139	609.908	8.503	13.238	3.939	11295	90
SPARTANBURG 3.4 ESE	34.9178, -81.8788	709.974	2.105	100.066	1.158	6	0
SPARTANBURG 3.7 SE	34.9134, -81.8748	683.071	2.249	73.163	1.177	12	0
SPARTANBURG 0.9 E	34.9462, -81.9129	784.121	2.654	174.213	1.657	22	0
SPARTANBURG 3.4 ENE	34.9572, -81.8704	702.1	4.21	92.192	2.283	10	0
SPARTANBURG 2.6 ENE	34.9627, -81.888	755.906	4.067	145.998	2.424	2	0
ROEBUCK 4.1 W	34.8852, -82.0361	698.163	7.099	88.255	3.821	3	0
SPARTANBURG 5.1 WSW	34.9304, -82.0189	829.068	6.15	219.16	4.115	1	0
CHESNEE 7 WSW	35.1108, -81.9675	748.032	14.35	138.124	8.44	2	0



Coordinates	34.9370, -81.7681
Observation Date	2023-03-09
Elevation (ft)	623.146
Drought Index (PDSI)	Not available
WebWIMP H ₂ O Balance	Wet Season

20 Davis Fradiras	20th 0(:1- (:-)	70th 0(:1- (:-)	Observed (in)	Matina and Canadition	Condition Value	Mainth 10/2: 21/24	Dun der ak
30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2023-03-09	3.085039	5.36378	3.559055	Normal	2	3	6
2023-02-07	2.926772	5.053543	4.866142	Normal	2	2	4
2023-01-08	2.862992	5.632284	6.72441	Wet	3	1	3
Result							Normal Conditions - 13



Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
SPARTANBURG 3 SSE	34.9078, -81.9139	609.908	8.503	13.238	3.939	11295	90
SPARTANBURG 3.4 ESE	34.9178, -81.8788	709.974	2.105	100.066	1.158	6	0
SPARTANBURG 3.7 SE	34.9134, -81.8748	683.071	2.249	73.163	1.177	12	0
SPARTANBURG 0.9 E	34.9462, -81.9129	784.121	2.654	174.213	1.657	22	0
SPARTANBURG 3.4 ENE	34.9572, -81.8704	702.1	4.21	92.192	2.283	10	0
SPARTANBURG 2.6 ENE	34.9627, -81.888	755.906	4.067	145.998	2.424	2 1	0
ROEBUCK 4.1 W	34.8852, -82.0361	698.163	7.099	88.255	3.821	3	0
SPARTANBURG 5.1 WSW	34.9304, -82.0189	829.068	6.15	219.16	4.115	1 1	0
CHESNEE 7 WSW	35.1108, -81.9675	748.032	14.35	138.124	8.44	2	0