

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.

Charleston Office: 69A Hagoood Avenue Charleston, SC 29403 843-329-8044 SAC.RD.Charleston@usace.army.mil	Columbia Office: 1519 Taylor Street Columbia, SC 29201 803-253-3444 SAC.RD.Columbia@usace.army.mil	Conway Office: 1949 Industrial Park Road, Room 140 Conway, SC 29526 843-365-4239 SAC.RD.Conway@usace.army.mil	Greenville Office: 750 Executive Center Dr, Suite 103 Greenville, SC 29615 864-609-4326 SAC.RD.Greenville@usace.army.mil
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I. PROPERTY AND AGENT INFORMATION

A. Site Details/Location:

Site Name: Luck Edgefield Date: November 27, 2023
 City/Township/Parish: Clarks Hill County: Edgefield
 Latitude/Longitude: 33.6267N, -82.0951W Acreage: 434.93
 Tax Map Sequence (TMS) #(s): Portion of one Edgefield County TPN (Appendix C)
 Property Address(es): North of Woodlawn Road

An accurate depiction of the review area must be provided (survey, tax map, OR GPS coordinates). Tax maps may only be used if the site includes the entire tax map parcel. **See the attached Checklist for information that should be submitted for a complete and proper submittal.**

B. Requestor of Jurisdictional Determination/Delineation (if there are multiple property owners, please attach additional pages)

Name: Mr. Mark Williams, Environmental Manager Company Name (if applicable): Luck Companies
 Address: Post Office Box 29682 Richmond, VA 23242
 Phone: 804-476-6404 Email: markdwilliams@luckcompanies.com
 Check one: I currently own this property I plan to purchase this property Other: _____

C. Agent/Environmental Consultant Acting on Behalf of the Requestor (if applicable):

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@smelnc.com

II. REASON FOR REQUEST (check all that apply):

- I intend to construct/develop a project or perform activities on this site which would be designed to avoid all aquatic resources.
- I intend to construct/develop a project or perform activities on this site which would be designed to avoid all jurisdictional aquatic resources under Corps authority.
- I intend to construct/develop a project or perform activities on this site which may require authorization from the Corps, and the Jurisdictional Determination would be used to avoid and minimize impacts to jurisdictional aquatic resources and as an initial step in a future permitting process.
- I intend to construct/develop a project or perform activities on this site which may require authorization from the Corps; this request is accompanied by my permit application and the jurisdictional determination is to be used in the permitting process.
- I intend to construct/develop a project or perform activities in a navigable water of the U.S. which is subject to the ebb and flow of the tide.
- A Corps jurisdictional determination is required in order to obtain my local/state authorization.
- I intend to contest jurisdiction over a particular aquatic resource and the request the Corps to confirm that jurisdiction does/does not exist over the aquatic resource on the parcel.
- I believe that the site may be comprised entirely of dry land.
- Other: _____

*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.
 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.

III. TYPE OF REQUEST:

¹**Delineation 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 quickest type of standalone request for the Corps to review and process.)

²**Approved** – 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.

³**Preliminary** – 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:

Pre-Construction Notification or Department of the Army permit application

- with Delineation only (no written concurrence of delineation)
- with Delineation Concurrence¹
- with Preliminary Jurisdictional Determination (PJD)³
- with Approved Jurisdictional Determination (AJD)²

Standalone Delineation / Jurisdictional Determination

Standalone Delineation / Jurisdictional Determination requests will be reviewed and processed as time allows and based on available resources.

- Delineation Concurrence¹
- Preliminary Jurisdictional Determination (PJD)³
- Approved Jurisdictional Determination (AJD)²

I request that the **Corps delineate** the wetlands and/or other aquatic resources that may be present on my property.

These requests have historically been conducted as a courtesy for private property owners for minor actions. Due to current workload and priorities, the Charleston District Regulatory Division will only provide this service on a limited basis for private individuals on small tracts of land (typically 1 acre or less).

- with the attached Pre-Construction Notification or Department of the Army permit application
(This may delay processing times. The review of the permit application will not start until the delineation has been completed by the Corps.)
- with a Delineation Only, an AJD or PJD

"No Permit Required" (NPR) Letter as I believe my proposed activity is not regulated⁴

Unclear and require additional information to inform my decision.

IV. LEGAL RIGHT OF ENTRY

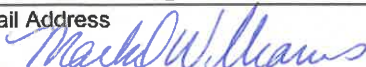
By signing below, I am indicating that I have the authority, or am acting as the duly authorized agent of a person or entity with such authority, to and do hereby grant U.S. Army Corps of Engineers personnel right of entry to legally access the property(ies) subject to this request for the purposes of conducting on-site investigations (e.g., digging and refilling shallow holes) and issuing a jurisdictional determination. I acknowledge that my signature is an affirmation that I possess the requisite property rights to request a jurisdictional determination on the properties subject to this request.

Post Office Box 29682 Richmond, VA 23242

Mailing Address

markdwilliams@luckcompanies.com

Email Address



*Signature:

Portion of one Edgefield County TPN (Appendix C)

Property Address / TMS #(s)

804-476-6406

Daytime Phone Number

Mark Williams, Environmental Manager

Printed Name and Date

*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.

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.



November 27, 2023

U.S. Army Corps of Engineers
Columbia Regulatory Office
1519 Taylor Street
Columbia, SC 29201

Attention: Columbia Regulatory Project Manager

Reference: **Request for Jurisdictional Determination
Luck Edgefield**
Clarks Hill, Edgefield County, South Carolina
S&ME Project No. 22350640

Dear Regulatory Project Manager:

On behalf of Luck Companies, S&ME, Inc. (S&ME) has completed a Wetland Delineation at the above-referenced project area (site). The approximate 434.93-acre site consists of a portion of one Edgefield County TPN (058-00-00-039-000), currently owned by Wilkie Development, LLC (**Appendix C**). The site is located north of Woodlawn Road near Clarks Hill, Edgefield County, South Carolina.

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

◆ Wetland Delineation

On January 10, 12, and 17, 2023 and February 21, 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):

- ◆ 16 Wetlands
- ◆ 17 Non-Wetland Waters (Tributaries)
- ◆ 35 Non-Aquatic Resources (Ephemeral Drainages/Swales/Gullies)

Wetlands

Sixteen (16) wetlands (1.976 acres) were observed on the site (Photographs 1-8). The wetlands are classified as palustrine forested (PFO) and Palustrine Emergent (PEM), riparian, seepage, and headwater wetlands.

Non-Wetland Waters (Tributaries)

Seventeen (17) tributaries (21,522 linear feet (lf)/1.815 acres) were observed on the site (Photographs 9-16). The tributaries are classified as perennial and seasonal. The tributaries had varied widths (2-12 feet) and a mixture of sand, cobble, and boulder substrates.



Non-Aquatic Resources (Ephemeral Drainages)

Thirty-five (35) ephemeral drainages/swales/gullies (13,189 lf) were observed on the site (Photographs 17-24)

In summary, the site contains approximately **3.791 acres** of Aquatic Resources.

◆ Uplands

Upland areas on the site consist of cutover land, mixed hardwoods, pine-mixed hardwoods, and open areas/utility easement. These portions of the site consist of the non-hydric soil series Cataula, Cecil, Cecil-Cataula Complex, Cecil-Pacolet Complex, and Wateree as listed in the Soil Survey of Edgefield 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-D, please find the following information for your review:

Appendix A

Exhibit 1 - Vicinity Exhibit, Exhibit 2 - Topographic Exhibit, Exhibit 3 – Aerial Exhibit, Exhibit 4 - Soils Exhibit, Exhibit 5 - NWI Exhibit, Exhibit 6 – LIDAR Exhibit, Site Photographs

Appendix B

Wetland/Upland Data Forms

Appendix C

Owner Information

Appendix D

Antecedent Precipitation Tool



Request for Jurisdictional Determination

Luck Edgefield

Clarks Hill, Edgefield County, South Carolina

S&ME Project No. 22350640

◆ **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

A handwritten signature in blue ink that reads "Chris Handley".

Chris Handley
Biologist
chandley@smeinc.com

A handwritten signature in blue ink that reads "Chris Daves".

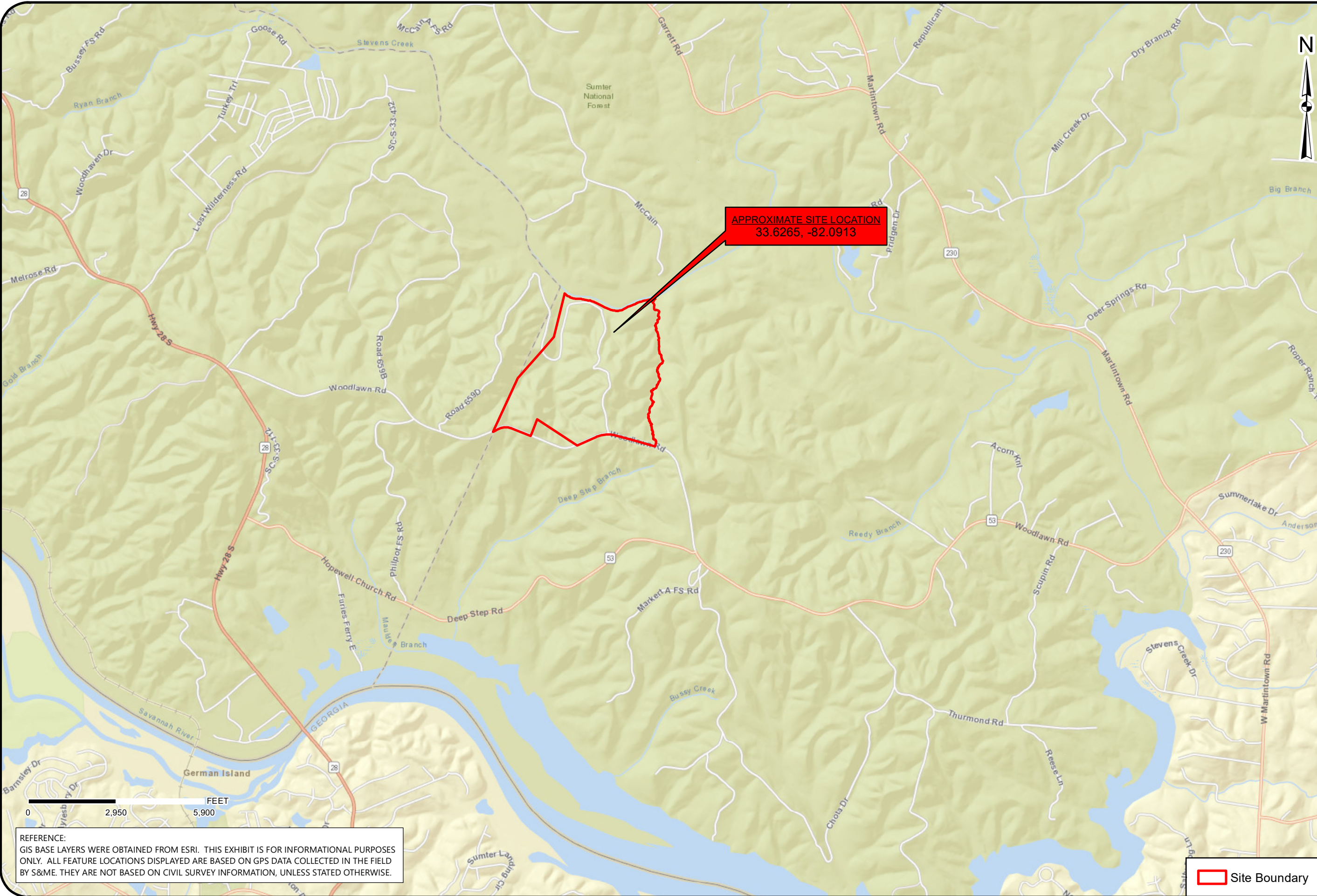
Chris Daves, P.W.S.
Senior Scientist
cdaves@smeinc.com

Attachments

Appendix A

Exhibits and Site Photographs

Drawing Path: T:\Charlotte-1350\Projects\2022\22350640_Luck Co_Luck Stone Edgfield Mine Site_Winnsboro SC\4_Energy\GIS\Columbia_NR_Fieldwork\Mxd\Edgfield Mine Site Vicinity Exhibit.mxd plotted by chandley 11-27-2023



Vicinity Exhibit

Luck Edgfield +/- 434.93 Acres
Clarks Hill, Edgfield County, South Carolina
Source: World Street Map

SCALE:
1" = 3,000'

DATE:
11-27-23

PROJECT NUMBER
22350640

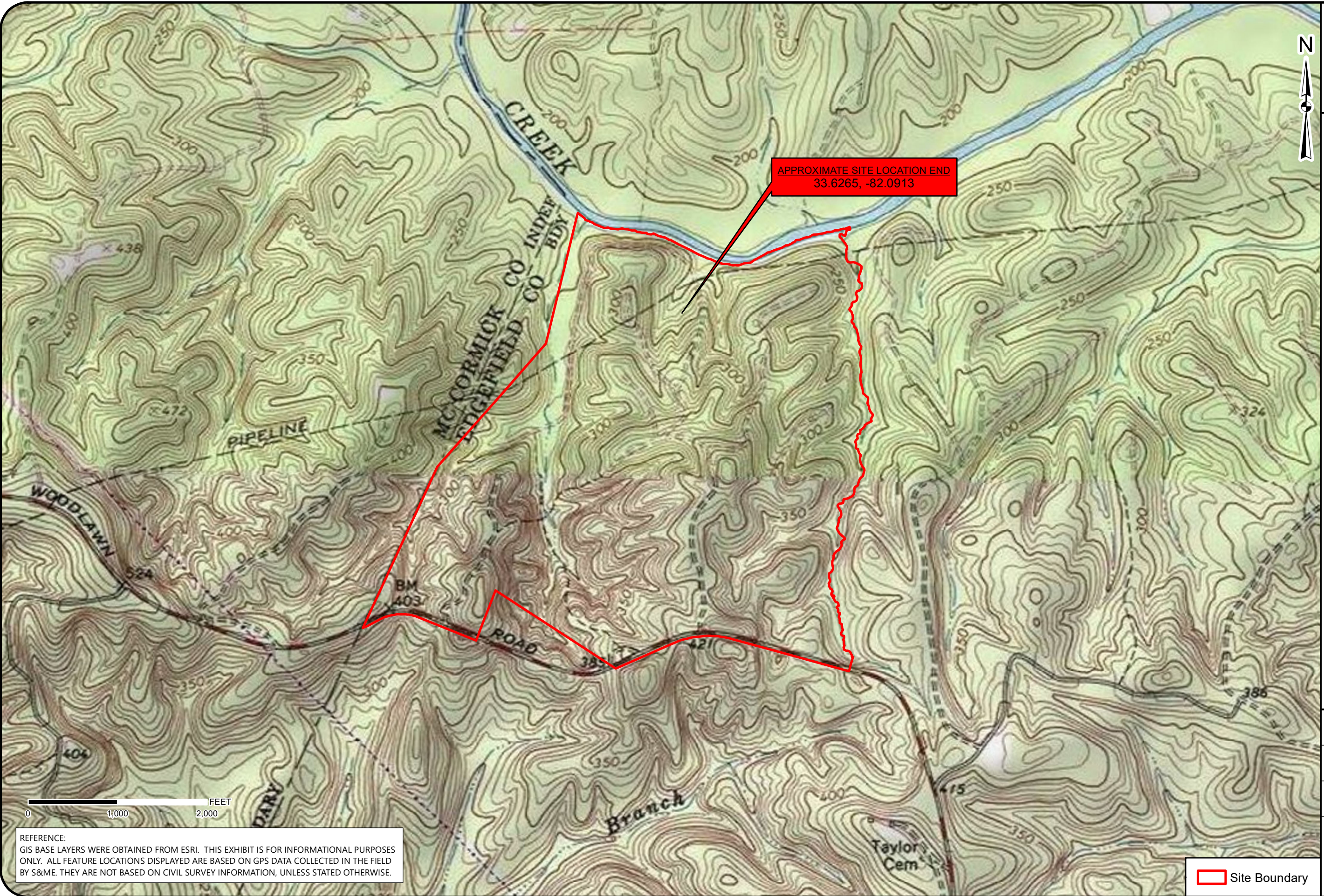
EXHIBIT NO.

1

REFERENCE:
GIS BASE LAYERS WERE OBTAINED FROM ESRI. THIS EXHIBIT IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE BASED ON GPS DATA COLLECTED IN THE FIELD BY S&M. THEY ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.

 Site Boundary

Drawing Path: T:\Charlotte-1350\Projects\2022\22350640_Luck Co_Luck Stone Edgfield Mine Site_Winnsboro SC\4_Energy\GIS\Columbia\NR\Fieldwork\Mxds\Edgfield Mine Site_Topographic Exhibit.mxd plotted by chandley 11-27-2023



Topographic Exhibit

Luck Edgfield +/- 434.93 Acres
Clarks Hill, Edgfield County, South Carolina
Source: USGS 7.5-Minute Topo Quads Colliers, SC 1964 (Rev. 1986) and Martinez, GA 1964 (Rev. 1980)

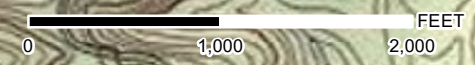
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DATE:
11-27-23


PROJECT NUMBER
22350640

EXHIBIT NO.

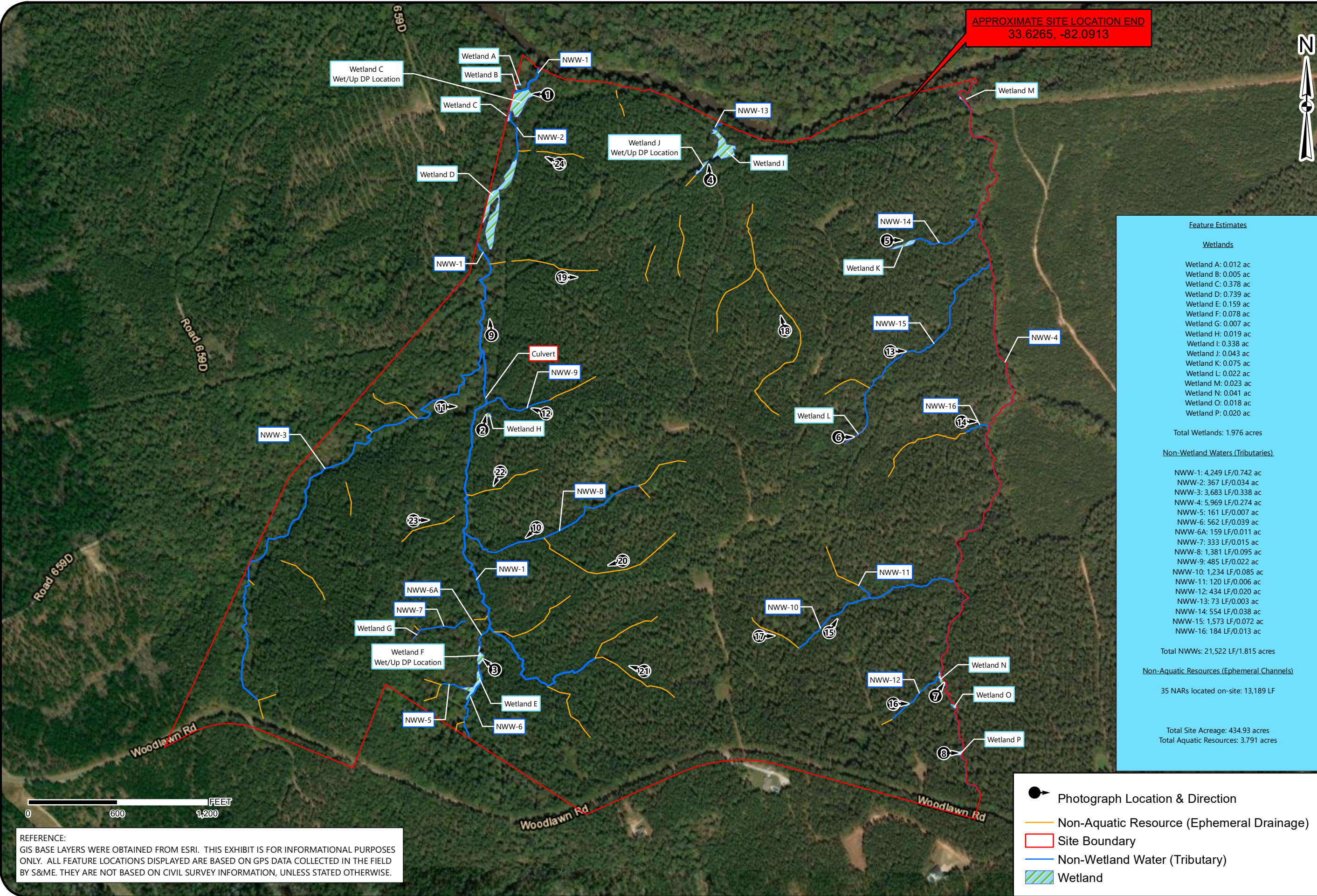
2



REFERENCE:
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 Site Boundary

Drawing Path: T:\Charlotte-1350\Projects\2022\22350640_Luck Co_Luck Stone Edgfield Mine Site_Winnsboro SC\4_Energy\GIS\Columbia_NR_Fieldwork\Mxd\Aerial Exhibit.mxd plotted by chandley 11-27-2023



REFERENCE:
 GIS BASE LAYERS WERE OBTAINED FROM ESRI. THIS EXHIBIT IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE BASED ON GPS DATA COLLECTED IN THE FIELD BY S&M.E. THEY ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.

APPROXIMATE SITE LOCATION END
 33.6265, -82.0913

Feature Estimates	
Wetlands	
Wetland A:	0.012 ac
Wetland B:	0.005 ac
Wetland C:	0.378 ac
Wetland D:	0.739 ac
Wetland E:	0.159 ac
Wetland F:	0.078 ac
Wetland G:	0.007 ac
Wetland H:	0.019 ac
Wetland I:	0.338 ac
Wetland J:	0.043 ac
Wetland K:	0.075 ac
Wetland L:	0.022 ac
Wetland M:	0.023 ac
Wetland N:	0.041 ac
Wetland O:	0.018 ac
Wetland P:	0.020 ac
Total Wetlands:	1.976 acres
Non-Wetland Waters (Tributaries)	
NWW-1:	4,249 LF/0.742 ac
NWW-2:	367 LF/0.034 ac
NWW-3:	3,683 LF/0.338 ac
NWW-4:	5,969 LF/0.274 ac
NWW-5:	161 LF/0.007 ac
NWW-6:	562 LF/0.039 ac
NWW-6A:	159 LF/0.011 ac
NWW-7:	333 LF/0.015 ac
NWW-8:	1,381 LF/0.095 ac
NWW-9:	485 LF/0.022 ac
NWW-10:	1,234 LF/0.085 ac
NWW-11:	120 LF/0.006 ac
NWW-12:	434 LF/0.020 ac
NWW-13:	73 LF/0.003 ac
NWW-14:	554 LF/0.038 ac
NWW-15:	1,573 LF/0.072 ac
NWW-16:	184 LF/0.013 ac
Total NWWs:	21,522 LF/1.815 acres
Non-Aquatic Resources (Ephemeral Channels)	
35 NARs located on-site: 13,189 LF	
Total Site Acreage: 434.93 acres	
Total Aquatic Resources: 3,791 acres	

- Photograph Location & Direction
- Non-Aquatic Resource (Ephemeral Drainage)
- Site Boundary
- Non-Wetland Water (Tributary)
- Wetland

Aerial Exhibit

Luck Edgfield +/- 434.93 Acres
 Clarks Hill, Edgfield County, South Carolina
 Source: World Imagery 2020

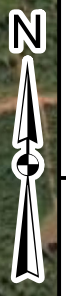
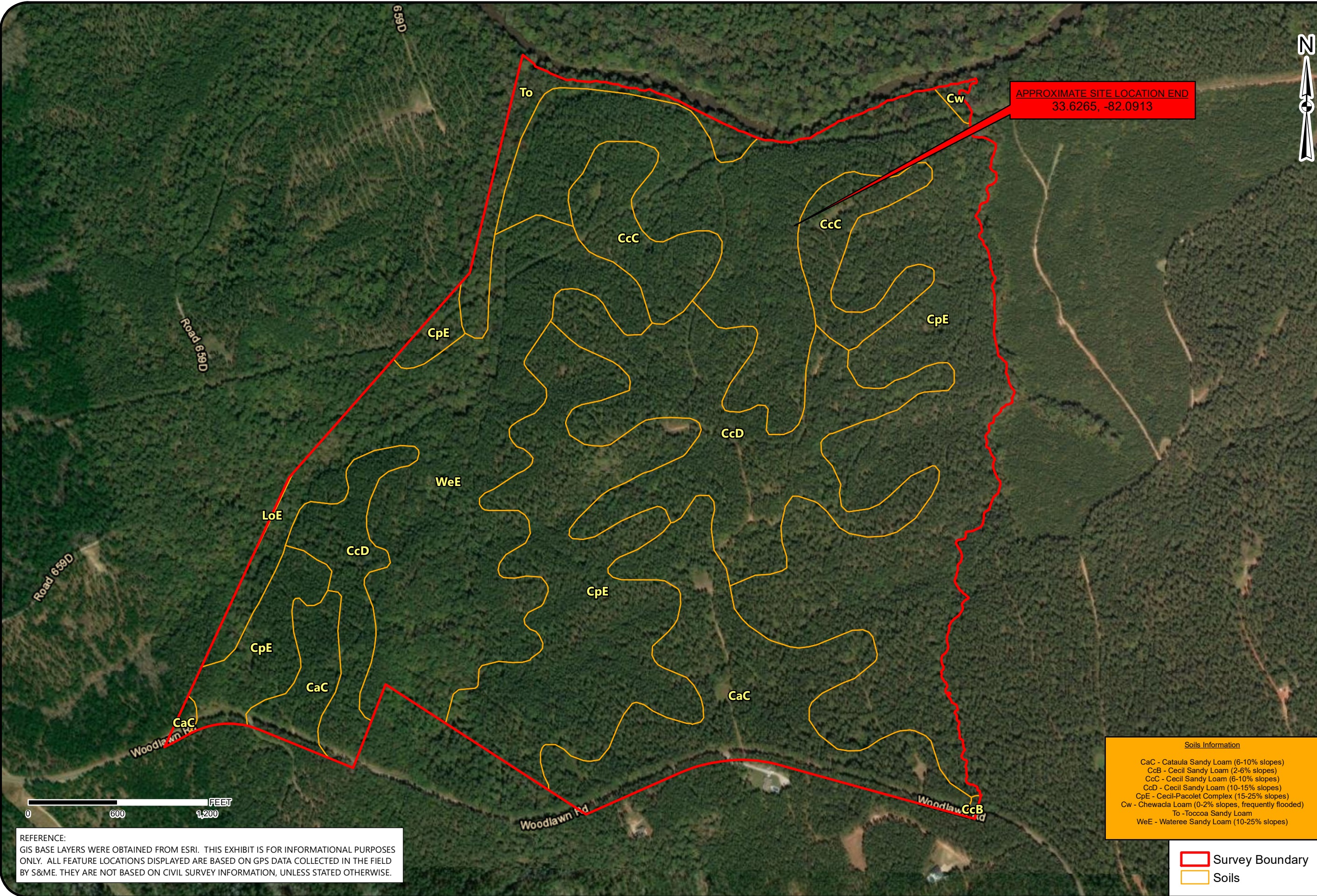
SCALE:
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DATE:
 11-27-23

PROJECT NUMBER
 22350640

EXHIBIT NO.

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Soils Exhibit

Luck Edgfield +/- 434.93 Acres
Clarks Hill, Edgfield County, South Carolina
Source: World Imagery 2020 & NRCS

SCALE:
1" = 600'

DATE:
11-27-23

PROJECT NUMBER
22350640

EXHIBIT NO.

4

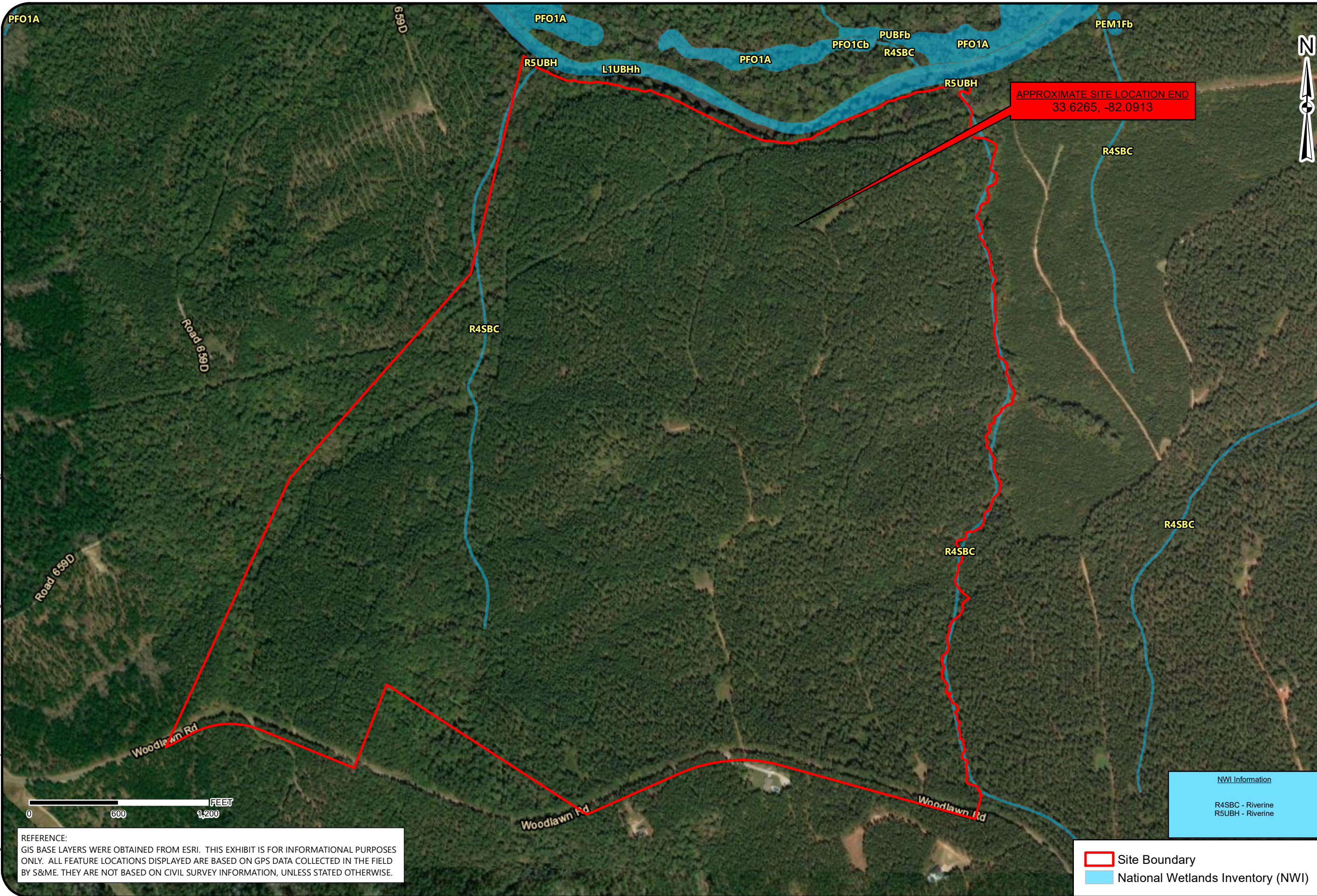
Soils Information	
CaC	- Cataula Sandy Loam (6-10% slopes)
CcB	- Cecil Sandy Loam (2-6% slopes)
CcC	- Cecil Sandy Loam (6-10% slopes)
CcD	- Cecil Sandy Loam (10-15% slopes)
CpE	- Cecil-Pacolet Complex (15-25% slopes)
Cw	- Chewacla Loam (0-2% slopes, frequently flooded)
To	- Toccoa Sandy Loam
WeE	- Wateree Sandy Loam (10-25% slopes)

- ▭ Survey Boundary
- ▭ Soils



REFERENCE:
GIS BASE LAYERS WERE OBTAINED FROM ESRI. THIS EXHIBIT IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE BASED ON GPS DATA COLLECTED IN THE FIELD BY S&ME. THEY ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.

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REFERENCE:
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Site Boundary
 National Wetlands Inventory (NWI)

[NWI Information](#)
 R4SBC - Riverine
 R5UBH - Riverine

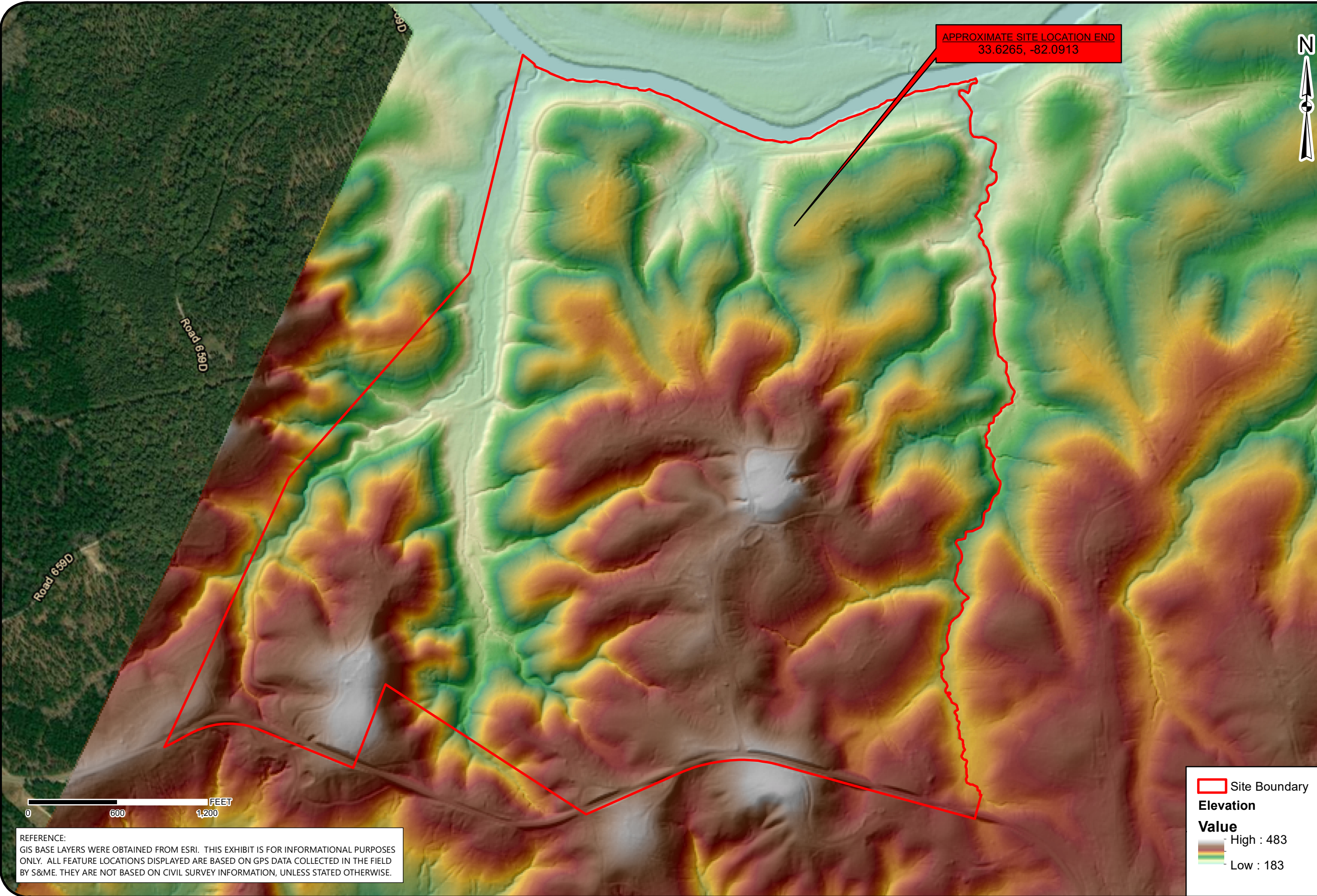
NWI Exhibit

Luck Edgfield +/- 434.93 Acres
 Clarks Hill, Edgfield County, South Carolina
 Source: World Imagery 2020 & USFWS

SCALE:
 1" = 600'
 DATE:
 11-27-23
 PROJECT NUMBER
 22350640
 EXHIBIT NO.



Drawing Path: T:\Charlotte-1350\Projects\2022\22350640_Luck Co_Luck Stone Edgfield Mine Site_Winnsboro SC\4_Energy\GIS\Columbia\Nxds\Edgfield Mine Site_LIDAR Exhibit.mxd plotted by chandley 11-27-2023



LIDAR Exhibit

Luck Edgfield +/- 434.93 Acres
Clarks Hill, Edgfield County, South Carolina
Source: World Imagery 2020 & SCDNR

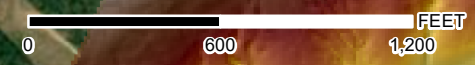
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DATE:
11-27-23


PROJECT NUMBER
22350640

EXHIBIT NO.

6





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 Site Boundary

Elevation

Value

 - High : 483

 - Low : 183



1 Wetland C.



2 Wetland H.



3 Wetland F.



4 Wetland J.



Site Photographs
Luck Edgefield
Clarks Hill, Edgefield County, South Carolina

S&ME Project 22350640

Taken by: CD/CH/WT

1/10, 1/12, 1/17 and 2/21, 2023



5 Wetland K.



6 Wetland L.



7 Wetland N.



8 Wetland P.



Site Photographs
Luck Edgefield
Clarks Hill, Edgefield County, South Carolina

S&ME Project 22350640

Taken by: CD/CH/WT

1/10, 1/12, 1/17 and 2/21, 2023



9 NWW-1.



10 NWW-8.



11 NWW-3.



12 NWW-9.



Site Photographs
Luck Edgefield
Clarks Hill, Edgefield County, South Carolina

S&ME Project 22350640

Taken by: CD/CH/WT

1/10, 1/12, 1/17 and 2/21, 2023



13 NWW-15.



14 NWW-16.



15 NWW-10.



16 NWW-12.





17 NAR-21.



18 NAR-30.



19 NAR-2.



20 NAR-16.



Site Photographs
Luck Edgefield
Clarks Hill, Edgefield County, South Carolina

S&ME Project 22350640

Taken by: CD/CH/WT

1/10, 1/12, 1/17 and 2/21, 2023



21 NAR-13.



22 NAR-25.



23 NAR-24.



24 NAR-1.



Appendix B

Wetland/Upland Data Forms

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Luck Edgefield **City/County:** Clarks Hill/Edgefield **Sampling Date:** 10-Jan-23
Applicant/Owner: Luck Companies **State:** SC **Sampling Point:** WET C-UP
Investigator(s): Chris Daves, P.W.S.-S&ME, Inc. **Section, Township, Range:** S T R
Landform (hillslope, terrace, etc.): Hillslope **Local relief (concave, convex, none):** concave **Slope:** 0.0% / 0.0 °
Subregion (LRR or MLRA): MLRA 136 in LRR P **Lat.:** 33.6323 **Long.:** -82.0947 **Datum:** NAD83
Soil Map Unit Name: Toccoa Sandy Loam (To) **NWI classification:** Upland

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation , **Soil** , **or Hydrology** **significantly disturbed?** **Are "Normal Circumstances" present?** Yes No
Are Vegetation , **Soil** , **or Hydrology** **naturally problematic?** (If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks: Data point taken outside of the edge of Wetland D.	

Hydrology

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-neutral Test (D5)	
Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ <small>(includes capillary fringe)</small>		Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: Hydrology indicators were not observed.			

VEGETATION (Five/Four Strata)- Use scientific names of plants.

Sampling Point: WET C-UP

Tree Stratum (Plot size: <u>30-ft.</u>)					Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>60.0%</u> (A/B)
1. <u>Liquidambar styraciflua</u>	50	<input checked="" type="checkbox"/>	100.0%	FAC	
2. _____	0	<input type="checkbox"/>	0.0%	_____	
3. _____	0	<input type="checkbox"/>	0.0%	_____	
4. _____	0	<input type="checkbox"/>	0.0%	_____	
5. _____	0	<input type="checkbox"/>	0.0%	_____	
6. _____	0	<input type="checkbox"/>	0.0%	_____	
7. _____	0	<input type="checkbox"/>	0.0%	_____	
8. _____	0	<input type="checkbox"/>	0.0%	_____	
50 = Total Cover					
Sapling-Sapling/Shrub Stratum (Plot size: <u>15-ft.</u>)					Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>70</u> x 3 = <u>210</u> FACU species <u>25</u> x 4 = <u>100</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>95</u> (A) <u>310</u> (B) Prevalence Index = B/A = <u>3.263</u>
1. <u>Ilex opaca</u>	15	<input checked="" type="checkbox"/>	50.0%	FACU	
2. <u>Carpinus caroliniana</u>	15	<input checked="" type="checkbox"/>	50.0%	FAC	
3. _____	0	<input type="checkbox"/>	0.0%	_____	
4. _____	0	<input type="checkbox"/>	0.0%	_____	
5. _____	0	<input type="checkbox"/>	0.0%	_____	
6. _____	0	<input type="checkbox"/>	0.0%	_____	
7. _____	0	<input type="checkbox"/>	0.0%	_____	
8. _____	0	<input type="checkbox"/>	0.0%	_____	
9. _____	0	<input type="checkbox"/>	0.0%	_____	
10. _____	0	<input type="checkbox"/>	0.0%	_____	
30 = Total Cover					
Shrub Stratum (Plot size: <u>15-ft.</u>)					Hydrophytic Vegetation Indicators: <input type="checkbox"/> Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> Dominance Test is > 50% <input type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Ligustrum sinense</u>	10	<input checked="" type="checkbox"/>	100.0%	FACU	
2. _____	0	<input type="checkbox"/>	0.0%	_____	
3. _____	0	<input type="checkbox"/>	0.0%	_____	
4. _____	0	<input type="checkbox"/>	0.0%	_____	
5. _____	0	<input type="checkbox"/>	0.0%	_____	
6. _____	0	<input type="checkbox"/>	0.0%	_____	
7. _____	0	<input type="checkbox"/>	0.0%	_____	
10 = Total Cover					
Herb Stratum (Plot size: <u>5-ft.</u>)					
1. <u>Arundinaria gigantea</u>	0	<input type="checkbox"/>	0.0%	FACW	
2. _____	0	<input type="checkbox"/>	0.0%	_____	
3. _____	0	<input type="checkbox"/>	0.0%	_____	
4. _____	0	<input type="checkbox"/>	0.0%	_____	
5. _____	0	<input type="checkbox"/>	0.0%	_____	
6. _____	0	<input type="checkbox"/>	0.0%	_____	
7. _____	0	<input type="checkbox"/>	0.0%	_____	
8. _____	0	<input type="checkbox"/>	0.0%	_____	
9. _____	0	<input type="checkbox"/>	0.0%	_____	
10. _____	0	<input type="checkbox"/>	0.0%	_____	
11. _____	0	<input type="checkbox"/>	0.0%	_____	
12. _____	0	<input type="checkbox"/>	0.0%	_____	
0 = Total Cover					
Woody Vine Stratum (Plot size: <u>30-ft.</u>)					Definition of Vegetation Strata: Four Vegetation Strata: Tree stratum – Consists of woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub stratum – Consists of woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb stratum – Consists of all herbaceous (non-woody) plants, regardless of size, and all other plants less than 3.28 ft tall. Woody vines – Consists of all woody vines greater than 3.28 ft in height. Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling stratum – Consists of woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub stratum – Consists of woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb stratum – Consists of all herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody species, except woody vines, less than approximately 3 ft (1 m) in height. Woody vines – Consists of all woody vines, regardless of height.
1. <u>Vitis rotundifolia</u>	5	<input checked="" type="checkbox"/>	100.0%	FAC	
2. _____	0	<input type="checkbox"/>	0.0%	_____	
3. _____	0	<input type="checkbox"/>	0.0%	_____	
4. _____	0	<input type="checkbox"/>	0.0%	_____	
5. _____	0	<input type="checkbox"/>	0.0%	_____	
6. _____	0	<input type="checkbox"/>	0.0%	_____	
5 = Total Cover					
Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>					

Remarks: (Include photo numbers here or on a separate sheet.)

Hydrophytic vegetation was observed.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: WET C-UP

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
1-10	10YR	5/4	100				Loamy Clay	
10-20	10YR	5/6	100				Loamy Clay	

¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- 2 cm Muck (A10) (LRR N)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Muck Mineral (S1) (LRR N, MLRA 147, 148)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)

- Dark Surface (S7)
- Polyvalue Below Surface (S8) (MLRA 147,148)
- Thin Dark Surface (S9) (MLRA 147, 148)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Iron-Manganese Masses (F12) (LRR N, MLRA 136)
- Umbric Surface (F13) (MLRA 136, 122)
- Piedmont Floodplain Soils (F19) (MLRA 148)
- Red Parent Material (F21) (MLRA 127, 147)

Indicators for Problematic Hydric Soils³:

- 2 cm Muck (A10) (MLRA 147)
- Coast Prairie Redox (A16) (MLRA 147,148)
- Piedmont Floodplain Soils (F19) (MLRA 136, 147)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:

Hydric soil indicators were not observed.

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Luck Edgefield **City/County:** Clarks Hill/Edgefield **Sampling Date:** 10-Jan-23
Applicant/Owner: Luck Companies **State:** SC **Sampling Point:** WET C-WET
Investigator(s): Chris Daves, P.W.S.-S&ME, Inc. **Section, Township, Range:** S T R
Landform (hillslope, terrace, etc.): Based of hillslope **Local relief (concave, convex, none):** concave **Slope:** 0.0% / 0.0 °
Subregion (LRR or MLRA): MLRA 136 in LRR P **Lat.:** 33.6323 **Long.:** -82.0948 **Datum:** NAD83
Soil Map Unit Name: Toccoa Sandy Loam (To) **NWI classification:** Upland

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation , **Soil** , **or Hydrology** **significantly disturbed?** **Are "Normal Circumstances" present?** Yes No
Are Vegetation , **Soil** , **or Hydrology** **naturally problematic?** (If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Remarks: Data point taken on edge of Wetland D in Floodplain.	

Hydrology

Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)		Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input checked="" type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4)	<input checked="" type="checkbox"/> FAC-neutral Test (D5)
Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input checked="" type="radio"/> No <input type="radio"/> Depth (inches): 6		Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: Hydrology indicators were observed.			

VEGETATION (Five/Four Strata)- Use scientific names of plants.

Sampling Point: WET C-WET

Tree Stratum (Plot size: <u>30-ft.</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover		Indicator Status	
1. <u>Liquidambar styraciflua</u>	50	<input checked="" type="checkbox"/> 71.4%		FAC	
2. <u>Platanus occidentalis</u>	20	<input checked="" type="checkbox"/> 28.6%		FACW	
3. _____	0	<input type="checkbox"/> 0.0%			
4. _____	0	<input type="checkbox"/> 0.0%			
5. _____	0	<input type="checkbox"/> 0.0%			
6. _____	0	<input type="checkbox"/> 0.0%			
7. _____	0	<input type="checkbox"/> 0.0%			
8. _____	0	<input type="checkbox"/> 0.0%			
	70	= Total Cover			
Sapling-Sapling/Shrub Stratum (Plot size: <u>15-ft.</u>)					
1. <u>Ulmus americana</u>	15	<input checked="" type="checkbox"/> 37.5%		FACW	
2. <u>Liquidambar styraciflua</u>	15	<input checked="" type="checkbox"/> 37.5%		FAC	
3. <u>Acer rubrum</u>	10	<input checked="" type="checkbox"/> 25.0%		FAC	
4. _____	0	<input type="checkbox"/> 0.0%			
5. _____	0	<input type="checkbox"/> 0.0%			
6. _____	0	<input type="checkbox"/> 0.0%			
7. _____	0	<input type="checkbox"/> 0.0%			
8. _____	0	<input type="checkbox"/> 0.0%			
9. _____	0	<input type="checkbox"/> 0.0%			
10. _____	0	<input type="checkbox"/> 0.0%			
	40	= Total Cover			
Shrub Stratum (Plot size: <u>15-ft.</u>)					
1. <u>Liqustrum sinense</u>	5	<input checked="" type="checkbox"/> 100.0%		FACU	
2. _____	0	<input type="checkbox"/> 0.0%			
3. _____	0	<input type="checkbox"/> 0.0%			
4. _____	0	<input type="checkbox"/> 0.0%			
5. _____	0	<input type="checkbox"/> 0.0%			
6. _____	0	<input type="checkbox"/> 0.0%			
7. _____	0	<input type="checkbox"/> 0.0%			
	5	= Total Cover			
Herb Stratum (Plot size: <u>5-ft.</u>)					
1. <u>Arundinaria gigantea</u>	20	<input checked="" type="checkbox"/> 100.0%		FACW	
2. _____	0	<input type="checkbox"/> 0.0%			
3. _____	0	<input type="checkbox"/> 0.0%			
4. _____	0	<input type="checkbox"/> 0.0%			
5. _____	0	<input type="checkbox"/> 0.0%			
6. _____	0	<input type="checkbox"/> 0.0%			
7. _____	0	<input type="checkbox"/> 0.0%			
8. _____	0	<input type="checkbox"/> 0.0%			
9. _____	0	<input type="checkbox"/> 0.0%			
10. _____	0	<input type="checkbox"/> 0.0%			
11. _____	0	<input type="checkbox"/> 0.0%			
12. _____	0	<input type="checkbox"/> 0.0%			
	20	= Total Cover			
Woody Vine Stratum (Plot size: <u>30-ft.</u>)					
1. <u>Berchemia scandens</u>	5	<input checked="" type="checkbox"/> 50.0%		FACW	
2. <u>Vitis rotundifolia</u>	5	<input checked="" type="checkbox"/> 50.0%		FAC	
3. _____	0	<input type="checkbox"/> 0.0%			
4. _____	0	<input type="checkbox"/> 0.0%			
5. _____	0	<input type="checkbox"/> 0.0%			
6. _____	0	<input type="checkbox"/> 0.0%			
	10	= Total Cover			

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 8 (A)

Total Number of Dominant Species Across All Strata: 9 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 88.9% (A/B)

Prevalence Index worksheet:

Total % Cover of: _____ Multiply by: _____

OBL species 0 x 1 = 0

FACW species 60 x 2 = 120

FAC species 80 x 3 = 240

FACU species 5 x 4 = 20

UPL species 0 x 5 = 0

Column Totals: 145 (A) 380 (B)

Prevalence Index = B/A = 2.621

Hydrophytic Vegetation Indicators:

Rapid Test for Hydrophytic Vegetation

Dominance Test is > 50%

Prevalence Index is ≤3.0 ¹

Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation ¹ (Explain)

¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definition of Vegetation Strata:

Four Vegetation Strata:

Tree stratum – Consists of woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub stratum – Consists of woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb stratum – Consists of all herbaceous (non-woody) plants, regardless of size, and all other plants less than 3.28 ft tall.

Woody vines – Consists of all woody vines greater than 3.28 ft in height.

Five Vegetation Strata:

Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).

Sapling stratum – Consists of woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.

Shrub stratum – Consists of woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.

Herb stratum – Consists of all herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody species, except woody vines, less than approximately 3 ft (1 m) in height.

Woody vines – Consists of all woody vines, regardless of height.

Hydrophytic Vegetation Present? Yes No

Remarks: (Include photo numbers here or on a separate sheet.)

Hydrophytic vegetation was observed.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: WET C-WET

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix			Redox Features					Texture	Remarks
	Color (moist)		%	Color (moist)		%	Type ¹	Loc ²		
1-20	10YR	5/2	80	10YR	5/6	20	C	M	Loamy Clay	

¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining. M=Matrix

<p>Hydric Soil Indicators:</p> <p><input type="checkbox"/> Histosol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Stratified Layers (A5)</p> <p><input type="checkbox"/> 2 cm Muck (A10) (LRR N)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Sandy Muck Mineral (S1) (LRR N, MLRA 147, 148)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p> <p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p>	<p><input type="checkbox"/> Dark Surface (S7)</p> <p><input type="checkbox"/> Polyvalue Below Surface (S8) (MLRA 147,148)</p> <p><input type="checkbox"/> Thin Dark Surface (S9) (MLRA 147, 148)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input checked="" type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p> <p><input type="checkbox"/> Iron-Manganese Masses (F12) (LRR N, MLRA 136)</p> <p><input type="checkbox"/> Umbric Surface (F13) (MLRA 136, 122)</p> <p><input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 148)</p> <p><input type="checkbox"/> Red Parent Material (F21) (MLRA 127, 147)</p>	<p>Indicators for Problematic Hydric Soils³:</p> <p><input type="checkbox"/> 2 cm Muck (A10) (MLRA 147)</p> <p><input type="checkbox"/> Coast Prairie Redox (A16) (MLRA 147,148)</p> <p><input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 136, 147)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (TF12)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
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³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):
 Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:
 Hydric soils were observed.

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Luck Edgefield **City/County:** Clarks Hill/Edgefield **Sampling Date:** 17-Jan-23
Applicant/Owner: Luck Companies **State:** SC **Sampling Point:** WET F-UP
Investigator(s): Chris Daves, P.W.S.-S&ME, Inc. **Section, Township, Range:** S T R
Landform (hillslope, terrace, etc.): Hillslope **Local relief (concave, convex, none):** _____ **Slope:** 0.0% / 0.0 °
Subregion (LRR or MLRA): MLRA 136 in LRR P **Lat.:** 33.6218 **Long.:** -82.0958 **Datum:** NAD83
Soil Map Unit Name: Wateree Sandy Loam (WeE) **NWI classification:** Upland

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation , **Soil** , **or Hydrology** **significantly disturbed?** **Are "Normal Circumstances" present?** Yes No
Are Vegetation , **Soil** , **or Hydrology** **naturally problematic?** (If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks: Data point taken outside the edge of Wetland G.	

Hydrology

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-neutral Test (D5)	
Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____		Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: Hydrology indicators were not observed.			

VEGETATION (Five/Four Strata)- Use scientific names of plants.

Sampling Point: WET F-UP

Tree Stratum (Plot size: <u>30-ft.</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet:	
1. <u>Pinus taeda</u>	25	<input checked="" type="checkbox"/> 55.6%	FAC	Number of Dominant Species That are OBL, FACW, or FAC: <u>4</u> (A)	
2. <u>Liquidambar styraciflua</u>	20	<input checked="" type="checkbox"/> 44.4%	FAC	Total Number of Dominant Species Across All Strata: <u>6</u> (B)	
3. _____	0	<input type="checkbox"/> 0.0%		Percent of dominant Species That Are OBL, FACW, or FAC: <u>66.7%</u> (A/B)	
4. _____	0	<input type="checkbox"/> 0.0%		Prevalence Index worksheet:	
5. _____	0	<input type="checkbox"/> 0.0%		Total % Cover of: _____ Multiply by: _____	
6. _____	0	<input type="checkbox"/> 0.0%		OBL species <u>0</u> x 1 = <u>0</u>	
7. _____	0	<input type="checkbox"/> 0.0%		FACW species <u>0</u> x 2 = <u>0</u>	
8. _____	0	<input type="checkbox"/> 0.0%		FAC species <u>60</u> x 3 = <u>180</u>	
	45 = Total Cover			FACU species <u>20</u> x 4 = <u>80</u>	
Sapling-Sapling/Shrub Stratum (Plot size: <u>15-ft.</u>)				UPL species <u>0</u> x 5 = <u>0</u>	
1. <u>Fagus grandifolia</u>	10	<input checked="" type="checkbox"/> 50.0%	FACU	Column Totals: <u>80</u> (A) <u>260</u> (B)	
2. <u>Carpinus caroliniana</u>	10	<input checked="" type="checkbox"/> 50.0%	FAC	Prevalence Index = B/A = <u>3.250</u>	
3. _____	0	<input type="checkbox"/> 0.0%		Hydrophytic Vegetation Indicators:	
4. _____	0	<input type="checkbox"/> 0.0%		<input type="checkbox"/> Rapid Test for Hydrophytic Vegetation	
5. _____	0	<input type="checkbox"/> 0.0%		<input checked="" type="checkbox"/> Dominance Test is > 50%	
6. _____	0	<input type="checkbox"/> 0.0%		<input type="checkbox"/> Prevalence Index is ≤3.0 ¹	
7. _____	0	<input type="checkbox"/> 0.0%		<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
8. _____	0	<input type="checkbox"/> 0.0%		<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)	
9. _____	0	<input type="checkbox"/> 0.0%		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
10. _____	0	<input type="checkbox"/> 0.0%		Definition of Vegetation Strata:	
	20 = Total Cover			Four Vegetation Strata:	
Shrub Stratum (Plot size: <u>15-ft.</u>)				Tree stratum – Consists of woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.	
1. _____	0	<input type="checkbox"/> 0.0%		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	<input type="checkbox"/> 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	<input type="checkbox"/> 0.0%		Woody vines – Consists of all woody vines greater than 3.28 ft in height.	
4. _____	0	<input type="checkbox"/> 0.0%		Five Vegetation Strata:	
5. _____	0	<input type="checkbox"/> 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 diameter at breast height (DBH).	
6. _____	0	<input type="checkbox"/> 0.0%		Sapling stratum – Consists of woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.	
7. _____	0	<input type="checkbox"/> 0.0%		Shrub stratum – Consists of woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.	
8. _____	0	<input type="checkbox"/> 0.0%		Herb stratum – Consists of all herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody species, except woody vines, less than approximately 3 ft (1 m) in height.	
9. _____	0	<input type="checkbox"/> 0.0%		Woody vines – Consists of all woody vines, regardless of height.	
10. _____	0	<input type="checkbox"/> 0.0%		Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
11. _____	0	<input type="checkbox"/> 0.0%			
12. _____	0	<input type="checkbox"/> 0.0%			
	10 = Total Cover				
Woody Vine Stratum (Plot size: <u>30-ft.</u>)					
1. <u>Vitis rotundifolia</u>	5	<input checked="" type="checkbox"/> 100.0%	FAC		
2. _____	0	<input type="checkbox"/> 0.0%			
3. _____	0	<input type="checkbox"/> 0.0%			
4. _____	0	<input type="checkbox"/> 0.0%			
5. _____	0	<input type="checkbox"/> 0.0%			
6. _____	0	<input type="checkbox"/> 0.0%			
	5 = Total Cover				

Remarks: (Include photo numbers here or on a separate sheet.)

Hydrophytic vegetation was observed.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: WET F-UP

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix			Redox Features				Texture	Remarks
	Color (moist)		%	Color (moist)		%	Type ¹		
1-6	10YR	5/3	100					Loamy Sand	
6-20	10YR	5/4	100					Sandy Loam	

¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining, M=Matrix

<p>Hydric Soil Indicators:</p> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> 2 cm Muck (A10) (LRR N) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Muck Mineral (S1) (LRR N, MLRA 147, 148) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Dark Surface (S7) <input type="checkbox"/> Polyvalue Below Surface (S8) (MLRA 147,148) <input type="checkbox"/> Thin Dark Surface (S9) (MLRA 147, 148) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR N, MLRA 136) <input type="checkbox"/> Umbric Surface (F13) (MLRA 136, 122) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 148) <input type="checkbox"/> Red Parent Material (F21) (MLRA 127, 147)	<p>Indicators for Problematic Hydric Soils³:</p> <input type="checkbox"/> 2 cm Muck (A10) (MLRA 147) <input type="checkbox"/> Coast Prairie Redox (A16) (MLRA 147,148) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 136, 147) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
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³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):
 Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:
 Hydric soil indicators were not observed.

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Luck Edgefield **City/County:** Clarks Hill/Edgefield **Sampling Date:** 17-Jan-23
Applicant/Owner: Luck Companies **State:** SC **Sampling Point:** WET F-WET
Investigator(s): Chris Daves, P.W.S.-S&ME, Inc. **Section, Township, Range:** S T R
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.:** 33.6219 **Long.:** -82.0958 **Datum:** NAD83
Soil Map Unit Name: Wateree Sandy Loam (WeE) **NWI classification:** Upland

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation , **Soil** , **or Hydrology** **significantly disturbed?** **Are "Normal Circumstances" present?** Yes No
Are Vegetation , **Soil** , **or Hydrology** **naturally problematic?** (If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Remarks: Data point taken on the edge of Wetland G.	

Hydrology

Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)		Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input checked="" type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4)	<input checked="" type="checkbox"/> FAC-neutral Test (D5)
Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input checked="" type="radio"/> No <input type="radio"/> Depth (inches): <u>2</u>		Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: Hydrology indicators were observed.			

VEGETATION (Five/Four Strata)- Use scientific names of plants.

Sampling Point: WET F-WET

Tree Stratum (Plot size: <u>30-ft.</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet:	
1. <u>Liquidambar styraciflua</u>	25	<input checked="" type="checkbox"/> 50.0%	FAC	Number of Dominant Species That are OBL, FACW, or FAC:	<u>5</u> (A)
2. <u>Ulmus americana</u>	25	<input checked="" type="checkbox"/> 50.0%	FACW	Total Number of Dominant Species Across All Strata:	<u>6</u> (B)
3. _____	0	<input type="checkbox"/> 0.0%		Percent of dominant Species That Are OBL, FACW, or FAC:	<u>83.3%</u> (A/B)
4. _____	0	<input type="checkbox"/> 0.0%		Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>60</u> x 2 = <u>120</u> FAC species <u>35</u> x 3 = <u>105</u> FACU species <u>5</u> x 4 = <u>20</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>100</u> (A) <u>245</u> (B) Prevalence Index = B/A = <u>2.450</u>	
5. _____	0	<input type="checkbox"/> 0.0%			
6. _____	0	<input type="checkbox"/> 0.0%			
7. _____	0	<input type="checkbox"/> 0.0%			
8. _____	0	<input type="checkbox"/> 0.0%			
9. _____	0	<input type="checkbox"/> 0.0%			
10. _____	0	<input type="checkbox"/> 0.0%			
11. _____	0	<input type="checkbox"/> 0.0%			
12. _____	0	<input type="checkbox"/> 0.0%			
Sapling-Sapling/Shrub Stratum (Plot size: <u>15-ft.</u>)				Hydrophytic Vegetation Indicators: <input type="checkbox"/> Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> Dominance Test is > 50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
1. <u>Ulmus americana</u>	15	<input checked="" type="checkbox"/> 60.0%	FACW		
2. <u>Carpinus caroliniana</u>	10	<input checked="" type="checkbox"/> 40.0%	FAC		
3. _____	0	<input type="checkbox"/> 0.0%			
4. _____	0	<input type="checkbox"/> 0.0%			
5. _____	0	<input type="checkbox"/> 0.0%			
6. _____	0	<input type="checkbox"/> 0.0%			
7. _____	0	<input type="checkbox"/> 0.0%			
8. _____	0	<input type="checkbox"/> 0.0%			
9. _____	0	<input type="checkbox"/> 0.0%			
10. _____	0	<input type="checkbox"/> 0.0%			
Shrub Stratum (Plot size: <u>15-ft.</u>)				Definition of Vegetation Strata: Four Vegetation Strata: Tree stratum – Consists of woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub stratum – Consists of woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb stratum – Consists of all herbaceous (non-woody) plants, regardless of size, and all other plants less than 3.28 ft tall. Woody vines – Consists of all woody vines greater than 3.28 ft in height. Five Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling stratum – Consists of woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub stratum – Consists of woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb stratum – Consists of all herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody species, except woody vines, less than approximately 3 ft (1 m) in height. Woody vines – Consists of all woody vines, regardless of height.	
1. _____	0	<input type="checkbox"/> 0.0%			
2. _____	0	<input type="checkbox"/> 0.0%			
3. _____	0	<input type="checkbox"/> 0.0%			
4. _____	0	<input type="checkbox"/> 0.0%			
5. _____	0	<input type="checkbox"/> 0.0%			
6. _____	0	<input type="checkbox"/> 0.0%			
7. _____	0	<input type="checkbox"/> 0.0%			
Herb Stratum (Plot size: <u>5-ft.</u>)				Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
1. <u>Arundinaria gigantea</u>	20	<input checked="" type="checkbox"/> 80.0%	FACW		
2. <u>Polystichum acrostichoides</u>	5	<input checked="" type="checkbox"/> 20.0%	FACU		
3. _____	0	<input type="checkbox"/> 0.0%			
4. _____	0	<input type="checkbox"/> 0.0%			
5. _____	0	<input type="checkbox"/> 0.0%			
6. _____	0	<input type="checkbox"/> 0.0%			
7. _____	0	<input type="checkbox"/> 0.0%			
8. _____	0	<input type="checkbox"/> 0.0%			
9. _____	0	<input type="checkbox"/> 0.0%			
10. _____	0	<input type="checkbox"/> 0.0%			
11. _____	0	<input type="checkbox"/> 0.0%			
12. _____	0	<input type="checkbox"/> 0.0%			
Woody Vine Stratum (Plot size: <u>30-ft.</u>)					
1. _____	0	<input type="checkbox"/> 0.0%			
2. _____	0	<input type="checkbox"/> 0.0%			
3. _____	0	<input type="checkbox"/> 0.0%			
4. _____	0	<input type="checkbox"/> 0.0%			
5. _____	0	<input type="checkbox"/> 0.0%			
6. _____	0	<input type="checkbox"/> 0.0%			
= Total Cover					

Remarks: (Include photo numbers here or on a separate sheet.)

Hydrophytic vegetation was observed.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: WET F-WET

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix			Redox Features					Texture	Remarks
	Color (moist)		%	Color (moist)		%	Type ¹	Loc ²		
1-5	10YR	5/2	100						Loamy Sand	
5-20	10YR	5/2	95	10YR	5/6	5	C	M	Sandy Loam	

¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining, M=Matrix

<p>Hydric Soil Indicators:</p> <p><input type="checkbox"/> Histosol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Stratified Layers (A5)</p> <p><input type="checkbox"/> 2 cm Muck (A10) (LRR N)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Sandy Muck Mineral (S1) (LRR N, MLRA 147, 148)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p> <p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p>	<p><input type="checkbox"/> Dark Surface (S7)</p> <p><input type="checkbox"/> Polyvalue Below Surface (S8) (MLRA 147,148)</p> <p><input type="checkbox"/> Thin Dark Surface (S9) (MLRA 147, 148)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input checked="" type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p> <p><input type="checkbox"/> Iron-Manganese Masses (F12) (LRR N, MLRA 136)</p> <p><input type="checkbox"/> Umbric Surface (F13) (MLRA 136, 122)</p> <p><input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 148)</p> <p><input type="checkbox"/> Red Parent Material (F21) (MLRA 127, 147)</p>	<p>Indicators for Problematic Hydric Soils³:</p> <p><input type="checkbox"/> 2 cm Muck (A10) (MLRA 147)</p> <p><input type="checkbox"/> Coast Prairie Redox (A16) (MLRA 147,148)</p> <p><input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 136, 147)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (TF12)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
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³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):
 Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:
 Hydric soil indicators were observed.

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Luck Edgefield **City/County:** Clarks Hill/Edgefield **Sampling Date:** 17-Jan-23
Applicant/Owner: Luck Companies **State:** SC **Sampling Point:** WET J-UP
Investigator(s): Chris Daves, P.W.S.-S&ME, Inc. **Section, Township, Range:** S T R
Landform (hillslope, terrace, etc.): Hillslope **Local relief (concave, convex, none):** concave **Slope:** 0.0% / 0.0 °
Subregion (LRR or MLRA): MLRA 136 in LRR P **Lat.:** 33.6311 **Long.:** -82.0909 **Datum:** NAD83
Soil Map Unit Name: Cecil-Pacolet Complex (CpE) **NWI classification:** Upland

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation , **Soil** , **or Hydrology** **significantly disturbed?** **Are "Normal Circumstances" present?** Yes No
Are Vegetation , **Soil** , **or Hydrology** **naturally problematic?** (If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks: Data point taken outside of the edge of Wetland K.	

Hydrology

Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)		Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-neutral Test (D5)	
Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____		Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: Hydrology indicators were not observed.			

VEGETATION (Five/Four Strata)- Use scientific names of plants.

Sampling Point: WET J-UP

	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	
Tree Stratum (Plot size: <u>30-ft.</u>)				Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)
1. _____	0	<input type="checkbox"/>	0.0%	
2. _____	0	<input type="checkbox"/>	0.0%	
3. _____	0	<input type="checkbox"/>	0.0%	
4. _____	0	<input type="checkbox"/>	0.0%	
5. _____	0	<input type="checkbox"/>	0.0%	
6. _____	0	<input type="checkbox"/>	0.0%	
7. _____	0	<input type="checkbox"/>	0.0%	
8. _____	0	<input type="checkbox"/>	0.0%	
0 = Total Cover				
Sapling-Sapling/Shrub Stratum (Plot size: <u>15-ft.</u>)				Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>5</u> x 3 = <u>15</u> FACU species <u>20</u> x 4 = <u>80</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>25</u> (A) <u>95</u> (B) Prevalence Index = B/A = <u>3.800</u>
1. _____	0	<input type="checkbox"/>	0.0%	
2. _____	0	<input type="checkbox"/>	0.0%	
3. _____	0	<input type="checkbox"/>	0.0%	
4. _____	0	<input type="checkbox"/>	0.0%	
5. _____	0	<input type="checkbox"/>	0.0%	
6. _____	0	<input type="checkbox"/>	0.0%	
7. _____	0	<input type="checkbox"/>	0.0%	
8. _____	0	<input type="checkbox"/>	0.0%	
9. _____	0	<input type="checkbox"/>	0.0%	
10. _____	0	<input type="checkbox"/>	0.0%	
0 = Total Cover				
Shrub Stratum (Plot size: <u>15-ft.</u>)				Hydrophytic Vegetation Indicators: <input type="checkbox"/> Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> Dominance Test is > 50% <input type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Liquidambar styraciflua</u>	5	<input checked="" type="checkbox"/>	100.0% FAC	
2. _____	0	<input type="checkbox"/>	0.0%	
3. _____	0	<input type="checkbox"/>	0.0%	
4. _____	0	<input type="checkbox"/>	0.0%	
5. _____	0	<input type="checkbox"/>	0.0%	
6. _____	0	<input type="checkbox"/>	0.0%	
7. _____	0	<input type="checkbox"/>	0.0%	
5 = Total Cover				
Herb Stratum (Plot size: <u>5-ft.</u>)				
1. <u>Dichanthelium latifolium</u>	20	<input checked="" type="checkbox"/>	100.0% FACU	
2. _____	0	<input type="checkbox"/>	0.0%	
3. _____	0	<input type="checkbox"/>	0.0%	
4. _____	0	<input type="checkbox"/>	0.0%	
5. _____	0	<input type="checkbox"/>	0.0%	
6. _____	0	<input type="checkbox"/>	0.0%	
7. _____	0	<input type="checkbox"/>	0.0%	
8. _____	0	<input type="checkbox"/>	0.0%	
9. _____	0	<input type="checkbox"/>	0.0%	
10. _____	0	<input type="checkbox"/>	0.0%	
11. _____	0	<input type="checkbox"/>	0.0%	
12. _____	0	<input type="checkbox"/>	0.0%	
20 = Total Cover				
Woody Vine Stratum (Plot size: <u>30-ft.</u>)				Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>
1. _____	0	<input type="checkbox"/>	0.0%	
2. _____	0	<input type="checkbox"/>	0.0%	
3. _____	0	<input type="checkbox"/>	0.0%	
4. _____	0	<input type="checkbox"/>	0.0%	
5. _____	0	<input type="checkbox"/>	0.0%	
6. _____	0	<input type="checkbox"/>	0.0%	
0 = Total Cover				

Remarks: (Include photo numbers here or on a separate sheet.)

Hydrophytic vegetation was not observed.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: WET J-UP

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix			Redox Features			Texture	Remarks
	Color (moist)		%	Color (moist)	%	Type ¹		
1-6	10YR	4/3	100				Loamy Sand	
6-20	10YR	5/4	100				Loamy Sand	

¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining. M=Matrix

<p>Hydric Soil Indicators:</p> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> 2 cm Muck (A10) (LRR N) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Muck Mineral (S1) (LRR N, MLRA 147, 148) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Dark Surface (S7) <input type="checkbox"/> Polyvalue Below Surface (S8) (MLRA 147,148) <input type="checkbox"/> Thin Dark Surface (S9) (MLRA 147, 148) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR N, MLRA 136) <input type="checkbox"/> Umbric Surface (F13) (MLRA 136, 122) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 148) <input type="checkbox"/> Red Parent Material (F21) (MLRA 127, 147)	<p>Indicators for Problematic Hydric Soils³:</p> <input type="checkbox"/> 2 cm Muck (A10) (MLRA 147) <input type="checkbox"/> Coast Prairie Redox (A16) (MLRA 147,148) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 136, 147) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
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³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):
 Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:
 Hydric soil indicators were not observed.

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Luck Edgefield **City/County:** Clarks Hill/Edgefield **Sampling Date:** 17-Jan-23
Applicant/Owner: Luck Companies **State:** SC **Sampling Point:** WET J-WET
Investigator(s): Chris Daves, P.W.S.-S&ME, Inc. **Section, Township, Range:** S T R
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.:** 33.6311 **Long.:** -82.0910 **Datum:** NAD83
Soil Map Unit Name: Cecil-Pacolet Complex (CpE) **NWI classification:** Upland

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation , **Soil** , **or Hydrology** **significantly disturbed?** **Are "Normal Circumstances" present?** Yes No
Are Vegetation , **Soil** , **or Hydrology** **naturally problematic?** (If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Remarks: Data point taken on the edge of Wetland K.	

Hydrology

Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)		Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input checked="" type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-neutral Test (D5)	
Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Depth (inches): <u>2</u> Saturation Present? (includes capillary fringe) Yes <input checked="" type="radio"/> No <input type="radio"/> Depth (inches): <u>1</u>		Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: Hydrology indicators were observed.			

VEGETATION (Five/Four Strata)- Use scientific names of plants.

Sampling Point: WET J-WET

	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	
Tree Stratum (Plot size: <u>30-ft.</u>)				Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
6. _____	0	<input type="checkbox"/> 0.0%	_____	
7. _____	0	<input type="checkbox"/> 0.0%	_____	
8. _____	0	<input type="checkbox"/> 0.0%	_____	
0 = Total Cover				
Sapling-Sapling/Shrub Stratum (Plot size: <u>15-ft.</u>)				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>60</u> x 2 = <u>120</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>60</u> (A) <u>120</u> (B) Prevalence Index = B/A = <u>2.000</u>
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
6. _____	0	<input type="checkbox"/> 0.0%	_____	
7. _____	0	<input type="checkbox"/> 0.0%	_____	
8. _____	0	<input type="checkbox"/> 0.0%	_____	
9. _____	0	<input type="checkbox"/> 0.0%	_____	
10. _____	0	<input type="checkbox"/> 0.0%	_____	
0 = Total Cover				
Shrub Stratum (Plot size: <u>15-ft.</u>)				Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> Dominance Test is > 50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
6. _____	0	<input type="checkbox"/> 0.0%	_____	
7. _____	0	<input type="checkbox"/> 0.0%	_____	
0 = Total Cover				
Herb Stratum (Plot size: <u>5-ft.</u>)				
1. <u>Scirpus cyperinus</u>	30	<input checked="" type="checkbox"/> 50.0%	FACW	
2. <u>Cyperus erythrorhizos</u>	30	<input checked="" type="checkbox"/> 50.0%	FACW	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
6. _____	0	<input type="checkbox"/> 0.0%	_____	
7. _____	0	<input type="checkbox"/> 0.0%	_____	
8. _____	0	<input type="checkbox"/> 0.0%	_____	
9. _____	0	<input type="checkbox"/> 0.0%	_____	
10. _____	0	<input type="checkbox"/> 0.0%	_____	
11. _____	0	<input type="checkbox"/> 0.0%	_____	
12. _____	0	<input type="checkbox"/> 0.0%	_____	
0 = Total Cover				
Woody Vine Stratum (Plot size: <u>30-ft.</u>)				Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
6. _____	0	<input type="checkbox"/> 0.0%	_____	
0 = Total Cover				
Remarks: (Include photo numbers here or on a separate sheet.) Hydrophytic vegetation was observed.				

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil

Sampling Point: WET J-WET

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
1-20	10GY	6/1	100				Sandy Loam	

¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining, M=Matrix

<p>Hydric Soil Indicators:</p> <p><input type="checkbox"/> Histosol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Stratified Layers (A5)</p> <p><input type="checkbox"/> 2 cm Muck (A10) (LRR N)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Sandy Muck Mineral (S1) (LRR N, MLRA 147, 148)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p> <p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p>	<p><input type="checkbox"/> Dark Surface (S7)</p> <p><input type="checkbox"/> Polyvalue Below Surface (S8) (MLRA 147,148)</p> <p><input type="checkbox"/> Thin Dark Surface (S9) (MLRA 147, 148)</p> <p><input checked="" type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p> <p><input type="checkbox"/> Iron-Manganese Masses (F12) (LRR N, MLRA 136)</p> <p><input type="checkbox"/> Umbric Surface (F13) (MLRA 136, 122)</p> <p><input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 148)</p> <p><input type="checkbox"/> Red Parent Material (F21) (MLRA 127, 147)</p>	<p>Indicators for Problematic Hydric Soils³:</p> <p><input type="checkbox"/> 2 cm Muck (A10) (MLRA 147)</p> <p><input type="checkbox"/> Coast Prairie Redox (A16) (MLRA 147,148)</p> <p><input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 136, 147)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (TF12)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
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³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):
 Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:
 Hydric soil indicators were observed.

Appendix C

Owner Information

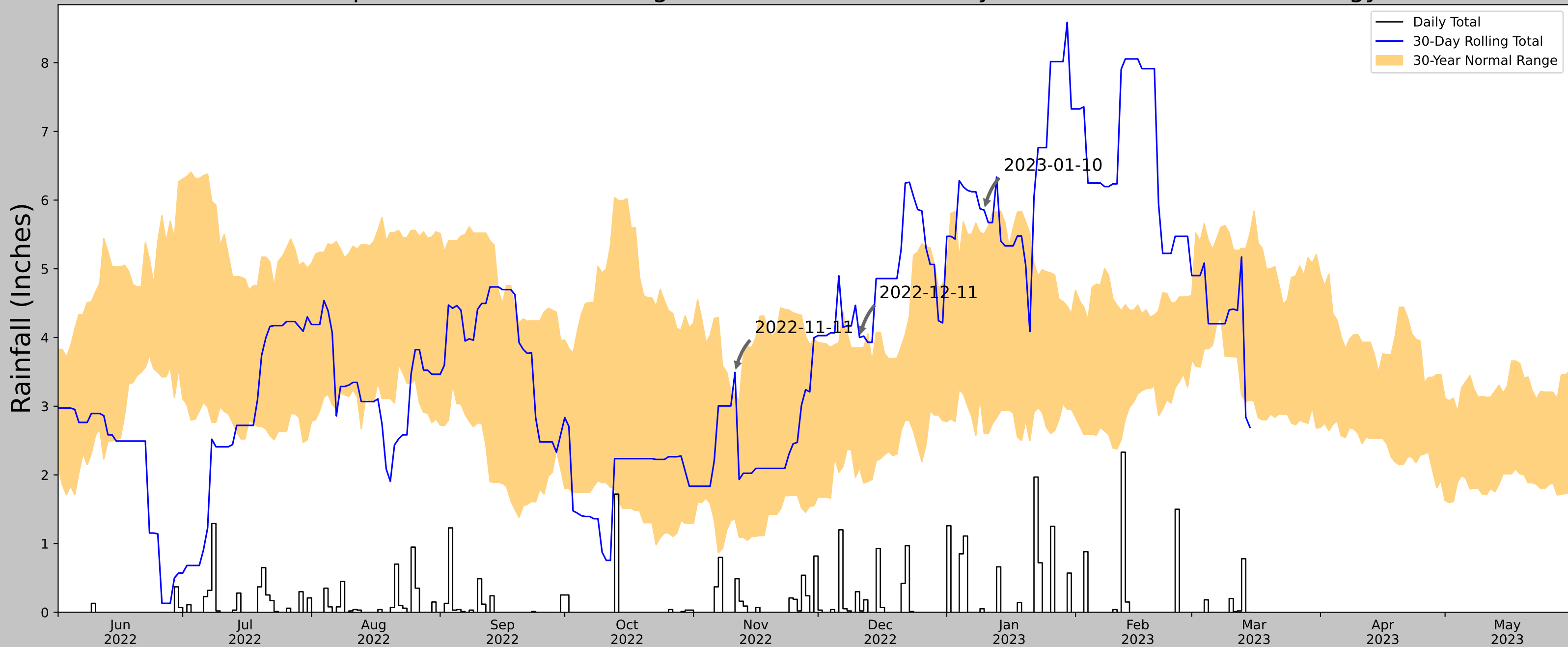
Tax Parcel Owner Information

Tax Parcel No.	Owner(s) Name	Owner Address	Site Contact
058-00-00-039-000 (Portion of)	Wilkie Development, LLC	PO Box 1350 Lexington, SC 29071	Luck Companies Mr. Bruce Smith Post Office Box 29682 Richmond, VA 23242 804-476-6406 brucesmith@luckcompanies.com

Appendix D

Antecedent Precipitation Tool

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	33.6267, -82.0951
Observation Date	2023-01-10
Elevation (ft)	246.199
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
2023-01-10	2.602362	5.505906	5.854331	Wet	3	3	9
2022-12-11	2.097638	3.847638	4.0	Wet	3	2	6
2022-11-11	1.359055	3.174016	3.492126	Wet	3	1	3
Result							Wetter than Normal - 18

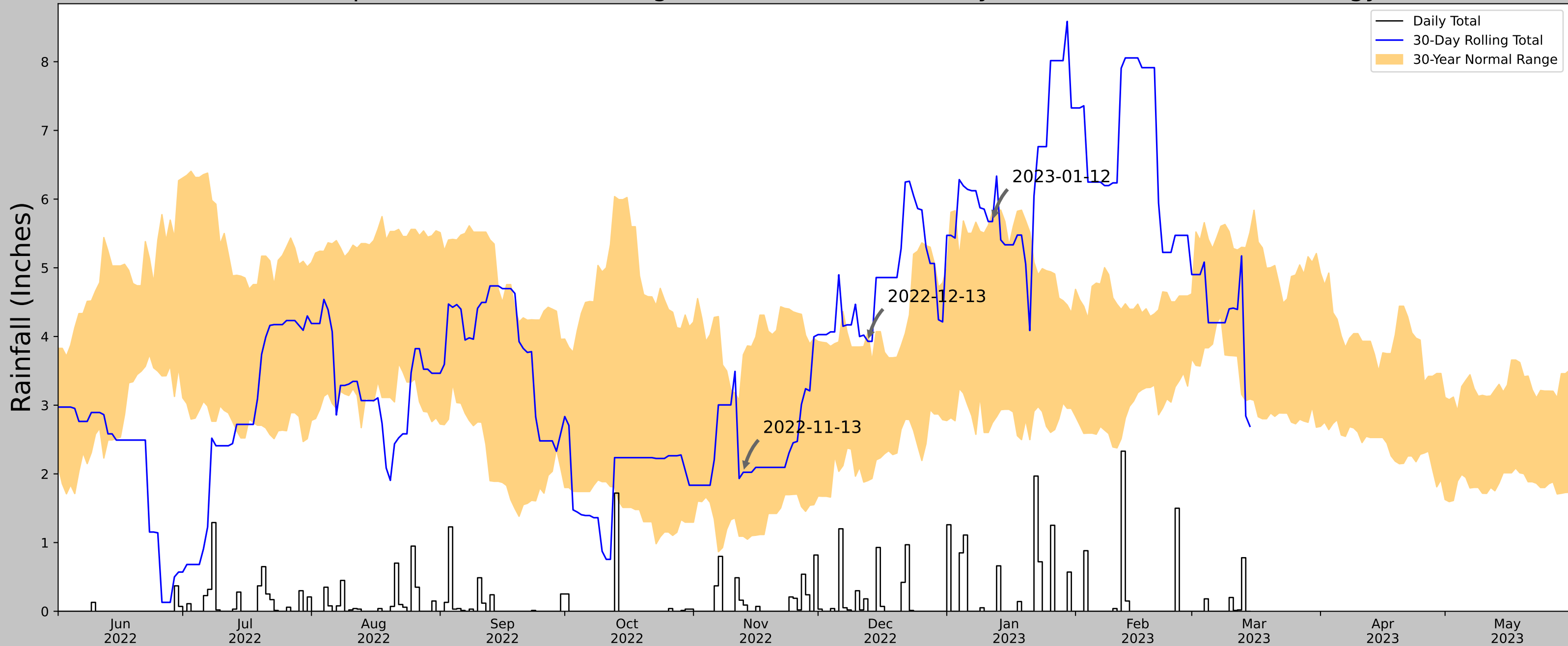
Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
CLARKS HILL 1 W	33.6633, -82.1897	399.934	6.0	153.735	3.623	10214	81
MODOC 4.0 ESE	33.7094, -82.143	280.84	4.166	119.094	2.371	45	0
MODOC 1.0 NNE	33.7471, -82.2008	392.06	5.825	7.874	2.667	6	0
EVANS 4.9 WNW	33.5443, -82.2223	395.997	8.433	3.937	3.828	21	0
EVANS 3.0 N	33.5566, -82.1364	334.974	7.985	64.96	4.112	122	7
EVANS 2.1 NNW	33.5418, -82.158	328.084	8.591	71.85	4.483	224	0
APPLING 2.0 SE	33.5298, -82.2873	402.887	10.8	2.953	4.892	18	2
APPLING 2 NW	33.5572, -82.3369	395.997	11.202	3.937	5.085	643	0
MARTINEZ 2.9 WSW	33.5113, -82.1369	426.837	10.933	26.903	5.214	9	0
MARTINEZ 0.7 WSW	33.5152, -82.0988	395.997	11.493	3.937	5.217	21	0
NORTH AUGUSTA 1.7 NNW	33.5413, -81.9634	379.921	15.513	20.013	7.291	7	0
AUGUSTA DANIEL FLD AP	33.4667, -82.0383	410.105	16.14	10.171	7.427	22	0
LINCOLNTON	33.7764, -82.4714	454.068	17.976	54.134	9.062	1	0



Figure and tables made by the
Antecedent Precipitation Tool
Version 1.0

Written by Jason Deters
U.S. Army Corps of Engineers

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	33.6267, -82.0951
Observation Date	2023-01-12
Elevation (ft)	246.199
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
2023-01-12	2.744488	5.810236	5.673229	Normal	2	3	6
2022-12-13	1.901575	4.054725	3.929134	Normal	2	2	4
2022-11-13	1.092126	3.734646	2.023622	Normal	2	1	2
Result							Normal Conditions - 12

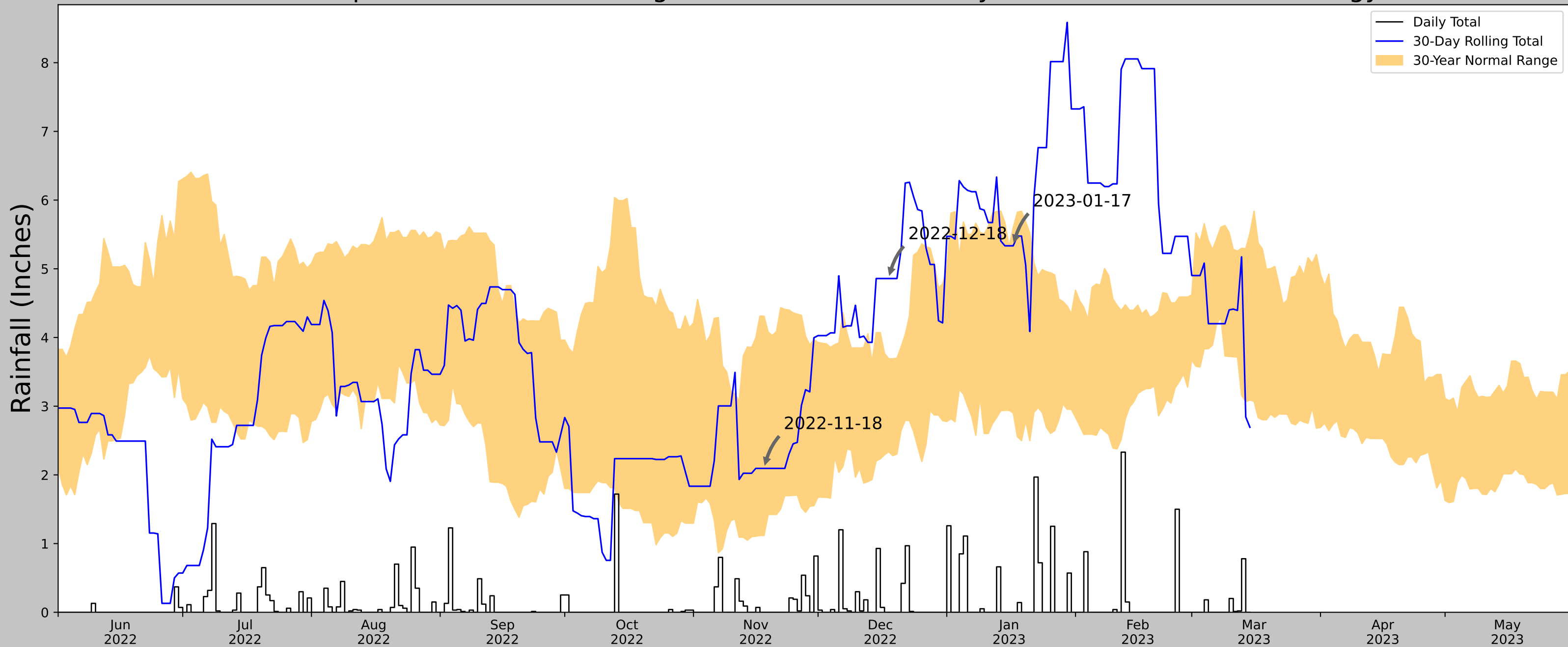
Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
CLARKS HILL 1 W	33.6633, -82.1897	399.934	6.0	153.735	3.622	10214	81
MODOC 4.0 ESE	33.7094, -82.143	280.84	4.166	119.094	2.371	45	0
MODOC 1.0 NNE	33.7471, -82.2008	392.06	5.825	7.874	2.667	6	0
EVANS 4.9 WNW	33.5443, -82.2223	395.997	8.433	3.937	3.828	21	0
EVANS 3.0 N	33.5566, -82.1364	334.974	7.985	64.96	4.112	122	7
EVANS 2.1 NNW	33.5418, -82.158	328.084	8.591	71.85	4.483	224	0
APPLING 2.0 SE	33.5298, -82.2873	402.887	10.8	2.953	4.892	18	2
APPLING 2 NW	33.5572, -82.3369	395.997	11.202	3.937	5.085	643	0
MARTINEZ 2.9 WSW	33.5113, -82.1369	426.837	10.933	26.903	5.214	9	0
MARTINEZ 0.7 WSW	33.5152, -82.0988	395.997	11.493	3.937	5.217	21	0
NORTH AUGUSTA 1.7 NNW	33.5413, -81.9634	379.921	15.513	20.013	7.291	7	0
AUGUSTA DANIEL FLD AP	33.4667, -82.0383	410.105	16.14	10.171	7.427	22	0
LINCOLNTON	33.7764, -82.4714	454.068	17.976	54.134	9.062	1	0



Figure and tables made by the
Antecedent Precipitation Tool
Version 1.0

Written by Jason Deters
U.S. Army Corps of Engineers

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	33.6267, -82.0951
Observation Date	2023-01-17
Elevation (ft)	246.199
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
2023-01-17	2.901575	5.600394	5.334646	Normal	2	3	6
2022-12-18	2.337008	3.690945	4.858268	Wet	3	2	6
2022-11-18	1.116929	4.311024	2.094488	Normal	2	1	2
Result							Normal Conditions - 14

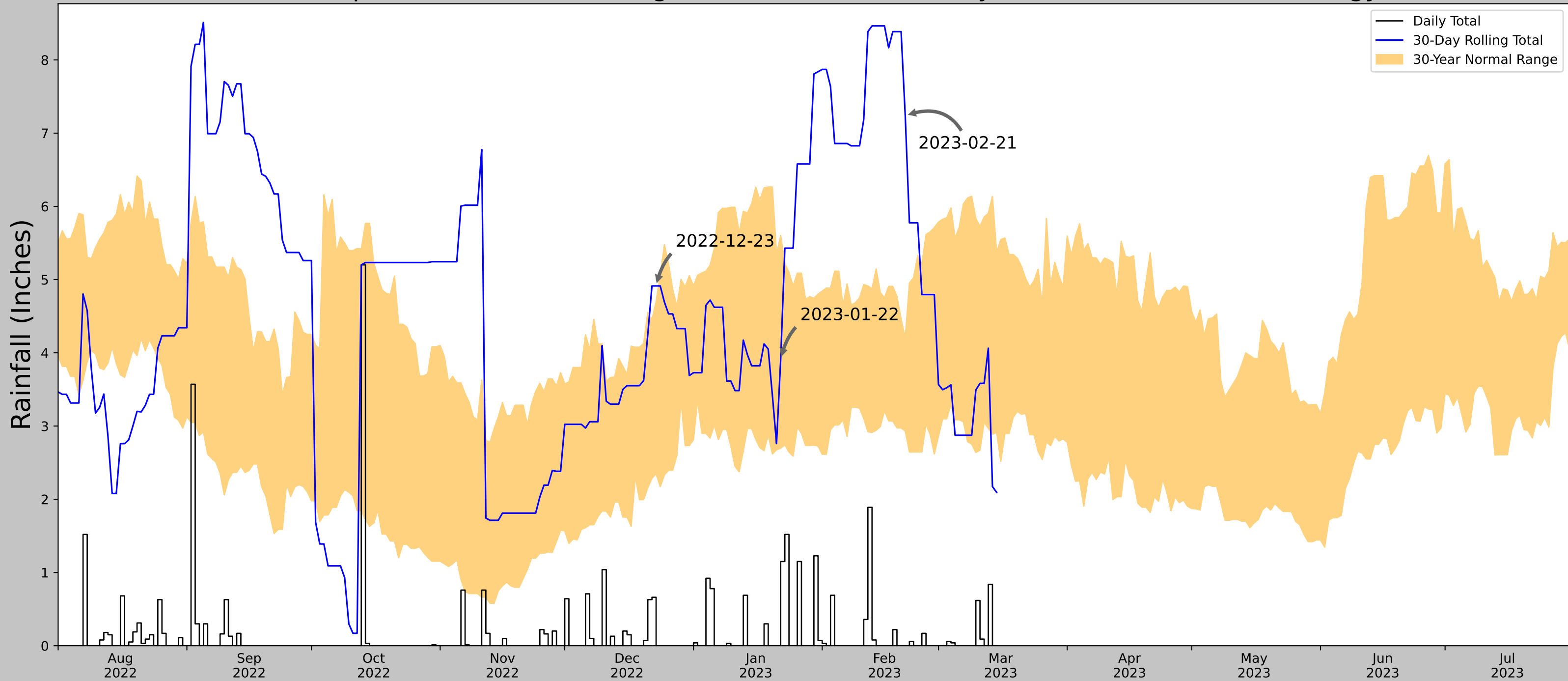
Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
CLARKS HILL 1 W	33.6633, -82.1897	399.934	6.0	153.735	3.622	10214	78
MODOC 4.0 ESE	33.7094, -82.143	280.84	4.166	119.094	2.371	45	0
MODOC 1.0 NNE	33.7471, -82.2008	392.06	5.825	7.874	2.667	6	0
EVANS 4.9 WNW	33.5443, -82.2223	395.997	8.433	3.937	3.828	21	0
EVANS 3.0 N	33.5566, -82.1364	334.974	7.985	64.96	4.112	122	9
EVANS 2.1 NNW	33.5418, -82.158	328.084	8.591	71.85	4.483	224	1
APPLING 2.0 SE	33.5298, -82.2873	402.887	10.8	2.953	4.892	18	2
APPLING 2 NW	33.5572, -82.3369	395.997	11.202	3.937	5.085	643	0
MARTINEZ 2.9 WSW	33.5113, -82.1369	426.837	10.933	26.903	5.214	9	0
MARTINEZ 0.7 WSW	33.5152, -82.0988	395.997	11.493	3.937	5.217	21	0
NORTH AUGUSTA 1.7 NNW	33.5413, -81.9634	379.921	15.513	20.013	7.291	7	0
AUGUSTA DANIEL FLD AP	33.4667, -82.0383	410.105	16.14	10.171	7.427	22	0
LINCOLNTON	33.7764, -82.4714	454.068	17.976	54.134	9.062	1	0



Figure and tables made by the
Antecedent Precipitation Tool
Version 1.0

Written by Jason Deters
U.S. Army Corps of Engineers

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	33.6267, -82.0951
Observation Date	2023-02-21
Elevation (ft)	246.199
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
2023-02-21	2.931496	4.202362	7.236221	Wet	3	3	9
2023-01-22	2.69685	5.60315	3.909449	Normal	2	2	4
2022-12-23	2.348425	4.700394	4.913386	Wet	3	1	3
Result							Wetter than Normal - 16



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Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
WAYNESBORO 2 S	33.0714, -82.0072	276.903	38.702	30.704	18.604	10843	90
WAYNESBORO 3.3 SW	33.0601, -82.0573	297.9	3.004	20.997	1.415	38	0
WAYNESBORO 10.9 E	33.0975, -81.8265	289.042	10.615	12.139	4.906	7	0
HEPHZIBAH 5.0 NE	33.3426, -82.0505	244.094	18.905	32.809	9.128	10	0
SOUTH AUGUSTA 4.1 S	33.3593, -82.0413	232.94	19.989	43.963	9.874	5	0
BLYTHE 2.8 SW	33.2621, -82.2303	433.071	18.442	156.168	11.179	11	0
AUGUSTA BUSH FLD AP	33.3653, -81.9636	133.858	20.462	143.045	12.135	439	0