

**Consulting Engineers** 

May 1, 2023

US Army Corps of Engineers Columbia Regulatory Office 2567 Essayons Way Fort Jackson, South Carolina 29207

# Re: Luck Companies / Saluda Quarry Batesburg-Leesville, Saluda County, SC Delineation Concurrence Request HHNT Project Number: 4780-021

To Whom It May Concern:

On behalf of Luck Companies, Hodges, Harbin, Newberry & Tribble, Inc., (HHNT) is herein submitting the enclosed Delineation Concurrence for the above-referenced site. The study area for the project, henceforth referred to as Saluda Quarry, is a  $\sim$  331.01-acre tract of land located to the west of Double Bridges Road and to the east of State Road S-41-26 in Batesburg-Leesville, Saluda County, South Carolina (Figures 1 & 2).

Attached please find all appropriate mapping and documentation of the project area and a GPS delineation map overlaid on an aerial photograph. It is the opinion of HHNT that all the U.S. Army Corps of Engineers (USACE) Waters of the United States limits have been identified and flagged within the project study area consistent with current jurisdictional guidelines. Furthermore, in HHNT's opinion, none of the delineated features could be considered isolated wetlands.

At your earliest convenience, we respectfully request that the attached Delineation Concurrence be processed for the subject property. Please contact us to schedule a field visit and for access to the property, if necessary. In advance, we thank you for your timely review of this project and if you should have any questions or require additional information, please do not hesitate to call.

Sincerely,

# HODGES, HARBIN, NEWBERRY & TRIBBLE, INC.

Brandon F. Smith, PWS Senior Environmental Consultant

BFS/MM/TW

cc: Bruce Smith Encl. (9)

#### 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.

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

#### I. PROPERTY AND AGENT INFORMATION

#### A. Site Details/Location:

Site Name: Luck Companies Saluda Quarry	Date: 4/27/2023
City/Township/Parish: Batesburg-Leesville	County: Saluda
Latitude/Longitude: 33.97183, -81.59429	Acreage: 331.01
Tax Map Sequence (TMS) #(s): 174-00-00-006	
Property Address(es): East side of State Road S-41-26	

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: Mark Williams Company Name (if applicable): Luck Companies

Address: PO Box 29682, Richmond, VA, 23242	
Phone: (804) 641-9458	Email: MarkDWilliams@luckcompanies.com
<i>Check one:</i> $\Box$ 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: Brandon Smith

Company Name: Hodges, Harbin, Newberry & Tribble Inc.

Address: 17 Park of Commerce Blvd. Suite 110, Savannah GA 31405 Phone: (912) 596-3743 Email: bsmith@hhnt.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.

 $\Box$  I believe that the site may be comprised entirely of dry land.

Other:

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

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

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

#### **III. TYPE OF REQUEST:**

<sup>1</sup>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.)

<sup>2</sup>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.

<sup>3</sup>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.

<sup>4</sup> "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 Concurrence<sup>1</sup>

with Preliminary Jurisdictional Determination (PJD)<sup>3</sup>

with Approved Jurisdictional Determination (AJD)<sup>2</sup>

#### Standalone Delineation / Jurisdictional Determination

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

Delineation Concurrence<sup>1</sup>

Preliminary Jurisdictional Determination (PJD)<sup>3</sup>

Approved Jurisdictional Determination (AJD)<sup>2</sup>

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 regulated<sup>4</sup>

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.

PO Box 29682, Richmond, VA, 23242

Mailing Address

MarkDWilliams@luckcompanies.com

Email Address

\*Signature:

174-00-00-006 Property Address / TMS #(s) (804) 476-6404 **Davtime Phone Number** Mark Williams - May 1, 2023 Printed Name and Date

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

Routing Language authorities referenced above. Routing 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.

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## JURISDICTIONAL DETERMINATION AND DELINEATION CHECKLIST:

This checklist is to assist prospective requesters in submitting complete and proper information. This is NOT a comprehensive list nor are all items mandatory for all projects. However, the list contains general information typically necessary for this office to confirm jurisdictional and/or wetland delineations as part of the permitting process. Required items are indicated by an asterisk (\*). To reduce delays in verifying Jurisdictional Determinations and Delineations, it is recommended that the information provided is a complete and true representation of wetlands and other aquatic resources that may be present onsite. It is also recommended that submissions be prepared and submitted by an environmental consultant. Although this is not a requirement, it will significantly expedite the review process.

Following these standards will help to expedite our review. Flexibility of these standards may be determined by the Regulatory Division on a case-by-case basis only. Please note the Corps has the ability to reject delineation work that is incomplete or inaccurate.

#### <u>\*Completed Request</u> For Corps Jurisdictional Determination (JD) / Delineation AND Legal Right of Entry

#### Site Information:

\*Location Maps: large-scale and small-scale maps, including streets, intersections, cities and an accurate depiction of the site boundary shown.

Note: Only contiguous/adjoining parcels can be submitted under one JD request. If there is an area not within the JD request that separates the areas of review (i.e., a road, utility line, etc.), a separate JD request should be submitted each area.

- 🔳 \*Overlay of site boundary on aerial photo, USGS topographic map, soil survey, NWI Map, etc.
- \*Site's coordinates should be based on a standard coordinate system, i.e., Geographic (at least to the nearest tenth of a second), State Plane or UTM. Indicate the coordinate system (and zone for UTM), units (English or metric) and the corresponding geodetic datum, either NAD27 or NAD83.
- \*Property lines with measurements illustrating all existing land features, including streams, ditches, trails, etc.
- Landscape photos of representative upland areas and aquatic resources, with the photo locations and directions of photos marked on a depiction.
- Current land use and plant communities located on and adjacent to the area under review (i.e., agricultural, industrial, residential, cropland, lawn, forested, etc.). If known, a brief history of the previous land use will be helpful.
- □ Proposed & existing structures clearly defined as such.
- Dimensions of proposed structures such as a driveway, house, garage, and other structures which are proposed in wetlands.
- □ Sewage/septic system: location, dimensions and type.
- □ Drainage ditches and/or berms: location and dimensions.
- \*Wetland Determination Data Forms: Record wetland delineation information for both the upland and wetland side of various points along the boundary. Current version from appropriate Regional Supplement found at: https://www.sac.usace.armv.mil/Missions/Regulatory.aspx

#### Elements for Depictions of All Sites:

- **\***Title Block with project name, applicant, county, state, date.
- \*North arrow

\*Solid bold line depicting project area boundary with label. <u>The project area boundary should be accurate and may be</u> represented by survey, tax map, or GPS coordinates with coordinates provided. Please note that a survey is NOT required. Tax maps may only be used if the project area includes the entire parcel(s). Include the Tax Map Parcel Numbers, Property Identification Numbers, etc., the source of the map, and date of preparation (print date).

\*Clearly marked boundaries of all wetlands and/or other aquatic resources and other pertinent features that are present (Wetlands, Tributaries, Lakes, Borrow Pits, Ponds, Rivers, Drainage Features, Ditches) and have been flagged in the field. Surveyed or GPS coordinates of the boundaries should be provided. (At a minimum, potentially non-jurisdictional linear features should be included on a supplement sketch/depiction.)

\*Labels of wetlands and/or other aquatic resources. <u>Refer to the below tables for the standardized labels that should be used for AJDs</u>, PJDs and/or Delineation Concurrence.

\*Size (acres) and length (linear feet) of each individual wetlands or aquatic resource included on the depiction.

\*Wetland Determination Data Form point locations with labels. (At a minimum, this should be included on a supplement sketch/depiction.)

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

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#### \*Standardized Labels for Depictions of Wetlands and Aquatic Resources

#### Table 1: Labels for PJDs and Delineation Concurrence

Label	Description
Wetland X (tidal, non-tidal)	All wetlands, including tidal wetlands.
Non-wetlands waters X (tidal, non-tidal)	All non-wetland aquatic resources (ponds, linear features, tributaries, tidal open water.
Upland	Uplands should be labeled
Non-aquatic resource X (Optional) *	Features determined by the Corps to be non-aquatic resources.

## Table 2: Labels for AJDs

Jurisdictional Feature Label	Description
TNW X	Traditionally Navigable Water, tidal wetland, or and/or OCRM Critical Area Wetland
Jurisdictional Tributary X	Tributary, relatively permanent water, or stream bed
Jurisdictional Wetland X	Meeting 3-parameters per 1987 Delineation Manual
Other Jurisdictional WOUS X	Other Waters of the United States such as ponds, lakes, ditches, impoundments, etc.
Non-jurisdictional Wetland X	Wetland determined by the Corps to be non-jurisdictional
Non-jurisdictional Feature X (Optional)*	Non-jurisdictional ponds, borrow-pits, linear features, ditches, etc.
Upland	Uplands should be labeled when wetlands or other waters, regardless of jurisdictional status, are present. When no wetlands or other waters are present, the "Upland" label is not necessary.

\*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 1313; 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.

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### Appendix D

Waters_Name	Cowadin_Code	HGM_Code	Measurement_Type	Amount	Units	Waters_Types	Latitude	Longitude	Local_Waterway
Non-Wetland Water SFD (Intermittent)	R4	RIVERINE	Linear	1801	FOOT	DELINEATE	33.9711	-81.5954	UT Flat Rock Branch
Non-Wetland Water SMD (Intermittent)	R4	RIVERINE	Linear	261	FOOT	DELINEATE	33.9666	-81.5865	UT Flat Rock Branch
Non-Wetland Water SMB (Intermittent)	R4	RIVERINE	Linear	54	FOOT	DELINEATE	33.9666	-81.5897	UT Flat Rock Branch
Non-Wetland Water SFA (Intermittent)	R4	RIVERINE	Linear	670	FOOT	DELINEATE	33.9723	-81.5881	UT Flat Rock Branch
Non-Wetland Water SFC (Intermittent)	R4	RIVERINE	Linear	266	FOOT	DELINEATE	33.9731	-81.5878	UT Flat Rock Branch
Non-Wetland Water SMCI (Intermittent)	R4	RIVERINE	Linear	333	FOOT	DELINEATE	33.9669	-81.5889	UT Flat Rock Branch
Non-Wetland Water STA (Perennial)	R5	RIVERINE	Linear	2861	FOOT	DELINEATE	33.9707	-81.5982	Flat Rock Branch
Non-Wetland Water SMC (Perennial)	R5	RIVERINE	Linear	805	FOOT	DELINEATE	33.9669	-81.5889	UT Flat Rock Branch
Non-Wetland Water SMA (Perennial)	R5	RIVERINE	Linear	1217	FOOT	DELINEATE	33.9665	-81.5915	UT Flat Rock Branch
Wetland FA	PFO1	RIVERINE	Area	0.2	ACRE	DELINEATE	33.9732	-81.5987	UT Flat Rock Branch
Wetland MC	PFO1	SLOPE	Area	0.35	ACRE	DELINEATE	33.9711	-81.599	UT Flat Rock Branch
Wetland TA	PFO1	SLOPE	Area	0.94	ACRE	DELINEATE	33.9675	-81.5984	UT Flat Rock Branch
Wetland MA	PFO1	SLOPE	Area	0.37	ACRE	DELINEATE	33.9668	-81.5871	UT Flat Rock Branch
Wetland MB	PFO1	SLOPE	Area	0.23	ACRE	DELINEATE	33.9665	-81.586	UT Flat Rock Branch

U.S. Army Corps of Engineers Global Positioning Systems (GPS) Datasheet Delineation of Wetlands and Non-Wetland Waters

Date of Delineation

USACE File Number

March 9-10, 2023

Name of Delineator Present

Make and Model of GPS Device Used (must be capable of sub-meter accuracy)

Geographic Coordinate System Used

Name of Continually Operated Reference Station Used for Post-processing

Date Post-processing Performed

Percent Dilution of Position (PDOP) (6 or less is required)

Name and Coordinates of Known Property Corner and/or Monument

GPS Reading of Known Property Corner and/or Monument

Frequency of Waypoints Taken During Survey

Note: GPS data must be provided, if requested. If GPS data and/or GPS delineation is determined unacceptable, a survey sealed by a surveyor licensed in South Carolina will be required.

# **APPENDICES**

- Appendix A: Figures
- Appendix B: Wetland Data Forms
- Appendix C: Upland Data Forms
- Appendix D: Non-Wetland Waters Data Forms
- Appendix E: Site Photographs
- Appendix F: Precipitation and Drought Data



# APPENDIX A FIGURES

- 1. Location Map
- 2. USGS Topographic Map
- 3. Soils Map
- 4. NWI Map
- 5. FEMA Map
- 6. Delineation Map
- 7. Photo Location Map













Figure 5 - FEMA Map

DISCLAIMER:

DISCALMERC: This drawing and the information contained herein is for general presentation purposes only and is a compilation of shapefile(s) provided by various source(s). The source and accuracy of the file(s) has not been verified by HHNT and therefore the drawing is not intended for use as a engineering drawing of for design purposes.

700 Feet

Project Area (~ 331.01 Acres) FEMA Flood Zone A 

Luck Companies Saluda Quarry Saluda County, SC 4/7/2023







# APPENDIX B WETLAND DATA FORMS



U.S. Army WETLAND DETERMINATION DATA S See ERDC/EL TR-12-9; th	OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)						
Project/Site: Saluda Quarry		City/County: Saluda	Sampling Date: 3/10/23				
Applicant/Owner: Luck Companies			State: SC Sampling Point: MC11 Wet				
Investigator(s): M. McKnight		Section, Township, Range:					
Landform (hillside, terrace, etc.): Slope	Lo	cal relief (concave, convex, non	e): Concave Slope (%): 2%				
Subregion (I BB or MI BA): I BB N		Long: -81.5	987 Datum: NAD83				
Soil Map Unit Name: My - Toccoa-Chewack			NWI classification: PEO1/3A				
Are climatic / hydrologic conditions on the sit	a typical for this time of yo	ar? Voc V					
Are Vegetetion Soil or Hydro	logy cignificantly di	at $1 \text{ cm} = 1  c$	motopoos" procent? Voc V No				
Are Vegetation, Soli, or Hydro	significantiy di	sturbed? Are Normal Circul					
Are vegetation, Soli, or Hydro	naturally probl	ematic? (If needed, explain	any answers in Remarks.)				
SUMMARY OF FINDINGS – Attach	site map showing s	sampling point locations	, transects, important features, etc.				
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes X No Yes X No	Is the Sampled Area within a Wetland?	Yes_X_ No				
According to the Antecedent Precipitation C	alculator, conditions were	normal during the time of the de	lineation.				
HYDROLOGY							
Wetland Hydrology Indicators:		Se	condary Indicators (minimum of two required)				
Primary Indicators (minimum of one is requi	red; check all that apply)	(D14)	Surface Soil Cracks (B6)				
High Water Table (A2)	Hydrogen Sulfide Oc	dor (C1)	Drainage Patterns (B10)				
X Saturation (A3)	Oxidized Rhizospher	res on Living Roots (C3) X	X Moss Trim Lines (B16)				
Water Marks (B1)	Presence of Reduce	d Iron (C4)	Dry-Season Water Table (C2)				
Sediment Deposits (B2)	Recent Iron Reduction	on in Tilled Soils (C6)	Crayfish Burrows (C8)				
Drift Deposits (B3)	Thin Muck Surface (	C7)	Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Other (Explain in Re	marks)	Stunted or Stressed Plants (D1)				
Iron Deposits (B5)	7)	<u></u>	X Geomorphic Position (D2)				
X Water-Stained Leaves (B9)			Microtopographic Relief (D4)				
Aquatic Fauna (B13)			FAC-Neutral Test (D5)				
Field Observations:							
Surface Water Present? Yes	No X Depth (inch	es):					
Water Table Present? Yes	No X Depth (inch	es):					
Saturation Present? Yes X	No Depth (inch	es): 4 Wetland Hyd	rology Present? Yes X No				
(Includes capillary fringe)	pritoring well aerial photos	nrevious inspections) if availa	hle.				
			50.				
Remarks:							

# VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: MC11 Wet

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
1. Carpinus caroliniana	10	Yes	FAC	Number of Dominant Species
2. Quercus nigra	8	Yes	FAC	That Are OBL, FACW, or FAC: 6 (A)
3. Liquidambar styraciflua	5	No	FAC	Total Number of Dominant
4. Ilex opaca	3	No	FACU	Species Across All Strata: 8 (B)
5. Quercus rubra	1	No	FACU	Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 75.0% (A/B)
7.				Prevalence Index worksheet:
	27	=Total Cover		Total % Cover of: Multiply by:
50% of total cover: 1	4 20%	of total cover:	6	OBL species 5 x 1 = 5
Sapling/Shrub Stratum (Plot size: 30')				FACW species 7 $x^2 = 14$
1. Ligustrum sinense	5	Yes	FACU	FAC species $29 \times 3 = 87$
2 Quercus nigra	3	Yes	FAC	FACU species $22$ $x 4 = 88$
3 llex opaca	2	<u></u> No	FACU	$\frac{1}{12} = \frac{1}{22} $
A Carpinus caroliniana		Voc	EAC	$\begin{array}{c} \text{Olympited} \\ \text{Colump Totals:} \\ \ Colump Total$
4. Carpinus caroliniana	3	165	FAC	Column rotals. $\underline{03}$ (A) $\underline{194}$ (B)
5.				Prevalence index = $B/A = 3.08$
6.				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				X 2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
	13	=Total Cover		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: 7	20%	of total cover:	3	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 30')				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Ligustrum sinense	10	Yes	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be
2. Polystichum acrostichoides	1	No	FACU	present, unless disturbed or problematic.
3. Woodwardia areolata	7	Yes	FACW	Definitions of Four Vegetation Strata:
4. Sagittaria calycina	5	Yes	OBL	<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or
5.				more in diameter at breast height (DBH), regardless of
6.				height.
7.				Sanling/Shrub Woody plants oveluding vines loss
8				than 3 in. DBH and greater than or equal to 3.28 ft
a				(1 m) tall.
3 10				Herb All borbaccous (non woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
· · · · · · · · · · · · · · · · · · ·				
	23	= I otal Cover	_	Woody Vine – All woody vines greater than 3.28 ft in height
50% of total cover: 1	2 20%	of total cover:	5	
Woody Vine Stratum (Plot size: 30')				
1				
2				
3				
4				
5.				Ludranh, tia
		=Total Cover		Vegetation
50% of total cover:	20%	of total cover:		Present? Yes X No
	unto object)			
Remarks: (include photo numbers here or on a sepa	nate sneet.)			

Profile Desc	ription: (Describe t	o the de	pth needed to doc	ument ti	he indica	ator or c	onfirm the abser	nce of indicators.)			
Depth	Matrix		Redo	x Featur	res						
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks			
0-6	10YR 4/2	90	10YR 3/6	10	С	М	Loamy/Clayey	/ Sandy loam			
6-18	10YR 3/2	80	10YR 3/6	20	С	М	Loamy/Clayey	/ Sandy loam			
<sup>1</sup> Type: C=Cc	oncentration, D=Deple	etion, RN	I=Reduced Matrix, M	∕IS=Mas	ked Sand	d Grains.	<sup>2</sup> Loca	ation: PL=Pore Lining, M=Matrix.			
Hydric Soil I	ndicators:						ľ	ndicators for Problematic Hydric Soils <sup>3</sup> :			
Histosol	(A1)		Polyvalue Be	elow Sur	face (S8)	) <b>(MLRA</b>	147, 148)	2 cm Muck (A10) (MLRA 147)			
Histic Ep	ipedon (A2)		Thin Dark S	urface (S	39) <b>(MLR</b>	A 147, 1	48) _	Coast Prairie Redox (A16)			
Black His	stic (A3)	Loamy Muck	ky Miner	al (F1) <b>(N</b>	ILRA 13	6)	(MLRA 147, 148)				
Hydroger	∩ Sulfide (A4)		Loamy Gley	ed Matriz	x (F2)		Piedmont Floodplain Soils (F19)				
Stratified	Layers (A5)		Depleted Ma	atrix (F3)	)			(MLRA 136, 147)			
2 cm Mu	ck (A10) <b>(LRR N)</b>		X Redox Dark	Surface	(F6)		_	Red Parent Material (F21)			
Depleted	Below Dark Surface	(A11)	Depleted Da	ırk Surfa	ice (F7)			(outside MLRA 127, 147, 148)			
Thick Da	rk Surface (A12)		Redox Depre	essions	(F8)		_	Very Shallow Dark Surface (F22)			
Sandy M	ucky Mineral (S1)		Iron-Mangar	nese Ma	sses (F12	2) (LRR 1	Other (Explain in Remarks)				
Sandy G	leyed Matrix (S4)		MLRA 13	ô)				—			
Sandy R	edox (S5)		Umbric Surf	ace (F13	3) <b>(MLRA</b>	122, 130	<b>6)</b> <sup>3</sup> Indicators of hydrophytic vegetation a				
Stripped	Matrix (S6)		Piedmont Fl	oodplain	n Soils (F	19) <b>(ML</b> R	₹A 148)	wetland hydrology must be present,			
Dark Sur	face (S7)		Red Parent	Material	(F21) <b>(M</b>	LRA 127	', 147, 148)	unless disturbed or problematic.			
Restrictive L	ayer (if observed):										
Type:											
Depth (in	iches):						Hydric Soil P	resent? Yes X No			
Remarks:											

U.S. Arm WETLAND DETERMINATION DATA S See ERDC/EL TR-12-9; t	gion	OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)						
Project/Site: Saluda Quarry		City/County: Saluda	l	Sampling Date: 3/9/2	2023			
Applicant/Owner: Luck Companies				State: SC Sampling Point: TA	3 Wet			
Investigator(s): T. Williams		Section, Township, Rang	ge:					
Landform (hillside, terrace, etc.); Seep	Lc	ocal relief (concave, conve	ex. none)	: Concave Slope (%):	6%			
Subregion (LRR or MLRA): LRR N	Lat: 33,9678	Long	n -81 59	86 Datum: NAC	183			
Soil Map Unit Name: ApB - Appling sandy I	248		g. <u> </u>	NWI classification: PEO1				
Are elimetia ( hydrologia conditions on the si	to tunical for this time of us	or? Voo V	NL	(If no evolution in Remarka)				
Are Climatic / Hydrologic Conditions on the si		di $tes$						
Are vegetation, Soli, or Hydro	significantly di	sturbed? Are Norma		stances present? Yes X No				
Are Vegetation, Soil, or Hydro	ology naturally probl	ematic? (If needed,	explain a	any answers in Remarks.)				
SUMMARY OF FINDINGS – Attack	n site map showing s	sampling point loca	ations,	transects, important features,	etc.			
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes X No Yes X No	Is the Sampled Area within a Wetland?		Yes X No				
According to the Antecedent Precipitation (	Salculator, conditions were	normal during the time of	the delir	neation.				
HYDROLOGY								
Wetland Hydrology Indicators:			Seco	ondary Indicators (minimum of two requi	red)			
Primary Indicators (minimum of one is requ	ired; check all that apply)			Surface Soil Cracks (B6)				
X Surface Water (A1)	True Aquatic Plants	(B14)		Sparsely Vegetated Concave Surface (B8)				
X Saturation (A3)		res on Living Roots (C3)		Moss Trim Lines (B16)				
Water Marks (B1)	Presence of Reduce	ed Iron (C4)		Noss Trim Lines (B16) Dry-Season Water Table (C2)				
Sediment Deposits (B2)	Recent Iron Reducti	on in Tilled Soils (C6)		Cravfish Burrows (C8)				
Drift Deposits (B3)	Thin Muck Surface (	(C7)		Saturation Visible on Aerial Imagery (C9	)			
Algal Mat or Crust (B4)	Other (Explain in Re	marks)		Stunted or Stressed Plants (D1)				
Iron Deposits (B5)			X	X Geomorphic Position (D2)				
Inundation Visible on Aerial Imagery (B	(7)			Shallow Aquitard (D3)				
X Water-Stained Leaves (B9)				Microtopographic Relief (D4)				
Aquatic Fauna (B13)				FAC-Neutral Test (D5)				
Field Observations:	No Dooth (inch	· · · · · · · · · · · · · · · · · · ·						
Water Table Present? Yes X	No Depth (inch	(es). 2						
Saturation Present? Yes X	No Depth (inch	es): Wetlan	nd Hvdro	blogy Present? Yes X No				
(includes capillary fringe)			···· <b>,</b> ····					
Describe Recorded Data (stream gauge, m	onitoring well, aerial photos	s, previous inspections), it	f availabl	le:				
Remarks:								

# VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: TA3 Wet

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
1. Quercus nigra	5	Yes	FAC	Number of Dominant Species
2. Liquidambar styraciflua	10	Yes	FAC	That Are OBL, FACW, or FAC:(A)
3. Cornus amomum	5	Yes	FACW	Total Number of Dominant
4. Carpinus caroliniana	3	No	FAC	Species Across All Strata: 8 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: <u>87.5%</u> (A/B)
7				Prevalence Index worksheet:
	23	=Total Cover	_	Total % Cover of: Multiply by:
50% of total cover: 1	2 20%	of total cover:	5	OBL species         12         x 1 =         12
Sapling/Shrub Stratum (Plot size: 30)	2		54.011	FACW species $28$ $x^2 = 56$
1. Ilex opaca		Yes	FACU	FAC species $26$ $x_3 = 78$
2. Quercus nigra	5	Yes	FAC	FACU species $3 \times 4 = 12$
3. Carpinus caroliniana	2	Yes	FAC	UPL species $0 \times 5 = 0$
4				Column Totals: 69 (A) 158 (B)
5				Prevalence Index = B/A = 2.29
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				X 2 - Dominance Test is >50%
9				X 3 - Prevalence Index is $\leq 3.0^1$
	10	=Total Cover		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover:	5 20%	of total cover:	2	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 30')				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Woodwardia areolata	20	Yes	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be
2. Arundinaria gigantea	3	No	FACW	present, unless disturbed or problematic.
3. <u>Aralia spinosa</u>	1	No	FAC	Definitions of Four Vegetation Strata:
4. Sagittaria calycina	10	Yes	OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5.				more in diameter at breast height (DBH), regardless of
6.				height.
7.				Sapling/Shrub – Woody plants, excluding vines, less
8.				than 3 in. DBH and greater than or equal to 3.28 ft
9.				(1 m) tall.
10.				Herb – All herbaceous (non-woody) plants, regardless
11.				of size, and woody plants less than 3.28 ft tall.
	34	=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover: 1	7 20%	of total cover:	7	height.
Woody Vine Stratum (Plot size: 30')				
1. Smilax laurifolia	2	No	OBL	
2.				
3.				
4.				
5.				
	2	=Total Cover		Hydrophytic
50% of total cover	1 20%	of total cover:	1	Present? Yes X No
			<u> </u>	
Remarks: (Include photo numbers here or on a sepa	arate sheet.)			

Profile Desc	cription: (Describe	to the de	pth needed to doc	ument t	he indic	ator or c	onfirm the ab	sence of ind	icators.)				
Depth Matrix Redox Features													
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Re	marks			
0-6	10YR 6/1	90	10YR 7/8	10	С	М	Loamy/Clay	/ey	Sandy loam				
6-12	10YR 7/1	80	10YR 7/8	20	С	М	Loamy/Cla	/ey	Sandy loam				
						·							
<sup>1</sup> Type: C=C	oncentration, D=Depl	etion, RN	I=Reduced Matrix, I	MS=Mas	ked San	d Grains.	<sup>2</sup> L	ocation: PL=	Pore Lining,	M=Matrix	x.		
Hydric Soil	Indicators:							Indicators	for Probler	natic Hyd	Iric Soils <sup>3</sup> :		
Histosol	(A1)		Polyvalue B	elow Su	face (S8	) <b>(MLRA</b>	<b>147, 148)</b> 2 cm Muck (A10) <b>(MLRA 147)</b>						
Histic Ep	pipedon (A2)		Thin Dark S	urface (S	59) <b>(MLR</b>	A 147, 1	48)	<b>48)</b> Coast Prairie Redox (A16)					
Black Hi	stic (A3)		Loamy Muc	ky Miner	al (F1) <b>(</b>	ILRA 13	6)	(MLRA 147, 148)					
Hvdroge	n Sulfide (A4)		Loamv Glev	ed Matri	x (F2)			Piedmont Floodplain Soils (F19)					
Stratified	d Lavers (A5)		X Depleted Ma	atrix (F3)				(MLRA 136, 147)					
2 cm Mu	uck (A10) (LRR N)		Redox Dark	Surface	(F6)			Red Parent Material (F21)					
Depleter	d Below Dark Surface	e (A11)	Depleted Da	ark Surfa	ce (F7)		(outside MLRA 127, 147, 148)						
Thick Da	ark Surface (A12)	()	Redox Depr	essions	(F8)		Very Shallow Dark Surface (F22)						
Sandy M	lucky Mineral (S1)		Iron-Mangar	nese Ma	(. e) sses (F1	2) <b>(  RR</b>	N Other (Evolain in Remarks)						
Sandy G	leved Matrix (S4)			6)		_/ (	,			ornanio)			
Sandy B	edox (S5)		Umbric Surf	<b>-,</b> ace (F1?		122 13	6)	<sup>3</sup> Indicators	of hydrophy	tic veneta	ation and		
Stripped	Matrix (S6)		Piedmont Fl	oodolain	Soils (F	19) <b>(MI F</b>	<b>20</b> 149) wetland bydrology must be present						
Dark Surface (S7) Red Parent Material (F21) (MLRA 12				LRA 127	7. 147. 148) unless disturbed or problematic.								
Restrictive	Layer (if observed):				· / ·								
Type:													
Depth (ir	nches):						Hydric Soi	Present?	Yes	X No	)		
Remarks: Soil very dry	and rocky, difficult to	o obtain p	ast 14 inches.										

# APPENDIX C UPLAND DATA FORMS



U.S. Ar WETLAND DETERMINATION DATA See ERDC/EL TR-12-9	OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)						
Project/Site: Saluda Quarry		City/County: Saluda	Sampling Date: 3/10/23				
Applicant/Owner: Luck Companies			State: SC Sampling Point: MC11 Up				
Investigator(s): M. McKnight		Section. Township. Range:					
Landform (billside terrace etc.): Hillside		cal relief (concave, convex u	(%)				
Subragion (LPP or MLPA): LPP N	L at: 32.0710781		1 5086136 Dotum: NAD83				
Soll Mon Unit Name: My Tagage Chaw	Lat. <u>33.9710701</u>	Longc	NWL close firstion: N/A				
Soli Map Onit Name. MV - Toccoa-Criew		• • • • •					
Are climatic / hydrologic conditions on the	site typical for this time of ye	ar? Yes X	No (If no, explain in Remarks.)				
Are Vegetation, Soil, or Hy	drologysignificantly di	sturbed? Are "Normal C	rcumstances" present? Yes X No				
Are Vegetation, Soil, or Hy	drologynaturally prob	ematic? (If needed, exp	lain any answers in Remarks.)				
SUMMARY OF FINDINGS – Atta	ch site map showing	sampling point location	ons, transects, important features, etc.				
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes NoX Yes NoX Yes NoX	Is the Sampled Area within a Wetland?	Yes NoX				
HYDROLOGY							
Wetland Hydrology Indicators			Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is re	quired: check all that apply)		Surface Soil Cracks (B6)				
Surface Water (A1)	True Aquatic Plants	(B14)	Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2)	Hydrogen Sulfide O	dor (C1)	Drainage Patterns (B10)				
Saturation (A3)	Oxidized Rhizosphe	res on Living Roots (C3)	Moss Trim Lines (B16)				
Water Marks (B1)	Presence of Reduce	d Iron (C4)	Dry-Season Water Table (C2)				
Sediment Deposits (B2)	Recent Iron Reducti	on in Tilled Soils (C6)	Crayfish Burrows (C8)				
Drift Deposits (B3)	Thin Muck Surface (	C7)	Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Other (Explain in Re	marks)	Stunted or Stressed Plants (D1)				
Included the Arrian Marian Mar	(B7)		Geomorphic Position (D2)				
Water-Stained Leaves (B9)			Microtopographic Relief (D4)				
Aquatic Fauna (B13)			FAC-Neutral Test (D5)				
Field Observations:							
Surface Water Present? Yes	No X Depth (inch	es):					
Water Table Present? Yes	No X Depth (inch	es):					
Saturation Present? Yes	No X Depth (inch	es): Wetland H	lydrology Present? Yes No $\times$				
(includes capillary fringe)							
Describe Recorded Data (stream gauge,	monitoring well, aerial photos	s, previous inspections), if av	ailable:				
Remarks:							

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

Sampling Point: MC11 Up

	Abaaluta	Dominant	Indiantar	
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet
	5	Vos	EACU	
	5	Vee	FACU	Number of Dominant Species
2. Juniperus virginiana	<u> </u>	res	FACU	
3. Carpinus caroliniana	3	NO	FAC	Total Number of Dominant
4. <u>Ilex opaca</u>	10	Yes	FACU	Species Across All Strata: 7 (B)
5.				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 0.0% (A/B)
7				Prevalence Index worksheet:
	23	=Total Cover		Total % Cover of: Multiply by:
50% of total cover:	12 20%	of total cover:	5	OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size: 30'	)			FACW species $0   x^2 = 0$
1 Ligustrum sinense	, 10	Yes	FACU	FAC species $3 \times 3 = 9$
	10	Ves	FACU	$FACU \text{ species} \qquad 62 \qquad x d = 248$
	10	163	TACO	$\frac{1}{100} \frac{1}{100} \frac{1}$
3.		·		$\frac{15}{15} \times 5 = \frac{75}{15}$
4				Column Totals: 80 (A) 332 (B)
5	_			Prevalence Index = $B/A = 4.15$
6.				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8.				2 - Dominance Test is >50%
9.				3 - Prevalence Index is ≤3.0 <sup>1</sup>
	20	-Total Cover		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
E0% of total approx	10 200/	of total cover	4	data in Remarks or on a separate sheet)
So % of total cover.	10 2070			Decklose of the like the site Manual of the 11 (For the in)
Herb Stratum (Plot size: 30')	_			Problematic Hydrophytic Vegetation (Explain)
1. Polystichum acrostichoides	2	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be
2. Ligustrum sinense	20	Yes	FACU	present, unless disturbed or problematic.
3. Oxalis violacea	15	Yes	UPL	Definitions of Four Vegetation Strata:
<ol> <li>Oxalis violacea</li> <li>4.</li> </ol>	15	Yes	UPL	Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
<ol> <li>Oxalis violacea</li> <li></li></ol>	15	Yes	UPL	Definitions of Four Vegetation Strata:           Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
<ol> <li>Oxalis violacea</li> <li></li></ol>	15	Yes	UPL	Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
<ol> <li>Oxalis violacea</li> <li>.</li> <li>.</li></ol>	15	Yes	UPL	Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less
3.       Oxalis violacea         4.	15 	Yes	UPL	<ul> <li>Definitions of Four Vegetation Strata:</li> <li>Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</li> <li>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft</li> </ul>
3.       Oxalis violacea         4.		Yes	UPL	<ul> <li>Definitions of Four Vegetation Strata:</li> <li>Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</li> <li>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> </ul>
3.       Oxalis violacea         4.		Yes	UPL	<ul> <li>Definitions of Four Vegetation Strata:</li> <li>Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</li> <li>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> </ul>
3.       Oxalis violacea         4.		Yes	UPL	<ul> <li>Definitions of Four Vegetation Strata:</li> <li>Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</li> <li>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of pize, and woody plants less than 2.28 ft tall.</li> </ul>
3.       Oxalis violacea         4.		Yes	UPL	<ul> <li>Definitions of Four Vegetation Strata:</li> <li>Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</li> <li>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> </ul>
3.       Oxalis violacea         4.		Yes	UPL	<ul> <li>Definitions of Four Vegetation Strata:</li> <li>Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</li> <li>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> <li>Woody Vine – All woody vines greater than 3.28 ft in</li> </ul>
3.       Oxalis violacea         4.	  	Yes	UPL	<ul> <li>Definitions of Four Vegetation Strata:</li> <li>Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</li> <li>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> <li>Woody Vine – All woody vines greater than 3.28 ft in height.</li> </ul>
3.       Oxalis violacea         4.	  	Yes	UPL	<ul> <li>Definitions of Four Vegetation Strata:</li> <li>Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</li> <li>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> <li>Woody Vine – All woody vines greater than 3.28 ft in height.</li> </ul>
3.       Oxalis violacea         4.	 	Yes	UPL	<ul> <li>Definitions of Four Vegetation Strata:</li> <li>Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</li> <li>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> <li>Woody Vine – All woody vines greater than 3.28 ft in height.</li> </ul>
3.       Oxalis violacea         4.	 	Yes	UPL	<ul> <li>Definitions of Four Vegetation Strata:</li> <li>Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</li> <li>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> <li>Woody Vine – All woody vines greater than 3.28 ft in height.</li> </ul>
3.       Oxalis violacea         4.	 	Yes	UPL	<ul> <li>Definitions of Four Vegetation Strata:</li> <li>Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</li> <li>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> <li>Woody Vine – All woody vines greater than 3.28 ft in height.</li> </ul>
3.       Oxalis violacea         4.	 	Yes	UPL	<ul> <li>Definitions of Four Vegetation Strata:</li> <li>Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</li> <li>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> <li>Woody Vine – All woody vines greater than 3.28 ft in height.</li> </ul>
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3.       Oxalis violacea         4.	 	Yes Yes Total Cover of total cover: Total Cover Total Cover	UPL	<ul> <li>Definitions of Four Vegetation Strata:</li> <li>Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</li> <li>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> <li>Woody Vine – All woody vines greater than 3.28 ft in height.</li> <li>Hydrophytic Vegetation</li> </ul>
3.       Oxalis violacea         4.	     	Yes Yes Total Cover of total cover: Total Cover of total cover:	UPL	Definitions of Four Vegetation Strata:         Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.         Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.         Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         Woody Vine – All woody vines greater than 3.28 ft in height.         Hydrophytic         Vegetation         Present?       Yes NoX
3.       Oxalis violacea         4.       .         5.       .         6.       .         7.       .         8.       .         9.       .         10.       .         11.       .         50% of total cover:       .         Woody Vine Stratum       (Plot size: 30')         1.       .         2.       .         3.       .         4.       .         5.       .         50% of total cover:       .         50% of total cover:       .         So% of total cover:       .         So% of total cover:       .         So% of total cover:       .	15 	Yes Yes Total Cover of total cover: Total Cover of total cover: of total cover:	UPL	Definitions of Four Vegetation Strata:         Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.         Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.         Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         Woody Vine – All woody vines greater than 3.28 ft in height.         Hydrophytic         Vegetation         Present?       Yes         No       X
3.       Oxalis violacea         4.       .         5.       .         6.       .         7.       .         8.       .         9.       .         10.       .         11.       .         50% of total cover:       .         Woody Vine Stratum       (Plot size: 30')         1.       .         2.       .         3.       .         4.       .         5.       .         50% of total cover:       .         So% of total cover:       .		Yes Yes Total Cover of total cover: Total Cover of total cover: Total Cover of total cover:	UPL	Definitions of Four Vegetation Strata:         Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.         Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.         Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         Woody Vine – All woody vines greater than 3.28 ft in height.         Hydrophytic         Vegetation         Present?       Yes         No       X
3.       Oxalis violacea         4.       .         5.       .         6.       .         7.       .         8.       .         9.       .         10.       .         11.       .         50% of total cover:       .         Woody Vine Stratum       (Plot size: 30')         1.       .         2.       .         3.       .         4.       .         5.       .         50% of total cover:       .         So% of total cover: <td>15 </td> <td>Yes Yes Total Cover of total cover: Total Cover of total cover: of total cover:</td> <td>UPL</td> <td>Definitions of Four Vegetation Strata:         Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.         Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.         Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         Woody Vine – All woody vines greater than 3.28 ft in height.         Hydrophytic         Vegetation         Present?       Yes         No       X</td>	15 	Yes Yes Total Cover of total cover: Total Cover of total cover: of total cover:	UPL	Definitions of Four Vegetation Strata:         Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.         Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.         Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         Woody Vine – All woody vines greater than 3.28 ft in height.         Hydrophytic         Vegetation         Present?       Yes         No       X
3.       Oxalis violacea         4.       .         5.       .         6.       .         7.       .         8.       .         9.       .         10.       .         11.       .         50% of total cover:       .         Woody Vine Stratum (Plot size: 30')       .         1.       .         2.       .         3.       .         4.       .         5.       .         50% of total cover:       .         50% of total cover:       .         7.       .         2.       .         3.       .         4.       .         5.       .         50% of total cover:       .         7.       .         5.       .         5.       .         50% of total cover:       .         7.       .         5.       .         5.       .         5.       .         5.       .         5.       .         5.       .	15 	Yes Yes Total Cover of total cover: Total Cover of total cover: Total Cover of total cover:	UPL	Definitions of Four Vegetation Strata:         Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.         Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.         Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         Woody Vine – All woody vines greater than 3.28 ft in height.         Hydrophytic         Vegetation         Present?       Yes         No       X
3.       Oxalis violacea         4.	15 	Yes Yes Total Cover of total cover: Total Cover of total cover: Total Cover of total cover:	UPL	Definitions of Four Vegetation Strata:         Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.         Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.         Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         Woody Vine – All woody vines greater than 3.28 ft in height.         Hydrophytic         Vegetation         Present?       Yes         No       X

Profile Desc	ription: (Describe	to the dep	oth needed to doc	ument t	he indica	tor or co	onfirm the abse	nce of indi	cators.)		
Depth	Matrix		Redo	x Featur	es						
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Rer	narks	
0-6	10YR 3/4	100					Loamy/Claye	/			
6-18	10YR 4/4	100					Loamv/Clave	v			
<sup>1</sup> Type: C=Co	oncentration, D=Dep	letion, RM	=Reduced Matrix, N	/IS=Mas	ked Sand	l Grains.	<sup>2</sup> Loc	ation: PL=	Pore Lining,	M=Matrix.	
Hydric Soil I	ndicators:						I	Indicators	for Problem	atic Hydri	c Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue B	elow Sur	face (S8	(MLRA	147, 148) _	2 cm N	luck (A10) <b>(N</b>	ILRA 147)	
Histic Ep	ipedon (A2)		Thin Dark S	urface (S	69) <b>(MLR</b>	A 147, 14	48)	Coast Prairie Redox (A16)			
Black His	stic (A3)		Loamy Mucl	ky Miner	al (F1) <b>(N</b>	ILRA 136	5)	(MLRA 147, 148)			
Hydroger	n Sulfide (A4)		Loamy Gley	ed Matri	x (F2)			Piedmont Floodplain Soils (F19)			9)
Stratified	Layers (A5)		Depleted Ma	atrix (F3)			-	(MLRA 136, 147)			
2 cm Mu	ck (A10) <b>(LRR N)</b>		Redox Dark	Surface	(F6)			Red Parent Material (F21)			
Depleted	Below Dark Surface	e (A11)	Depleted Da	rk Surfa	ce (F7)		-	(outside MLRA 127, 147, 148)			
Thick Da	rk Surface (A12)	. ,	Redox Depr	essions	(F8)			Very Shallow Dark Surface (F22)			
Sandv M	uckv Mineral (S1)		Iron-Mangar	nese Ma	sses (F12	2) (LRR N	<del>-</del>	Other (Explain in Remarks)			,
Sandy G	leved Matrix (S4)		MLRA 13	6)		<i>,</i> ,	· -	``		,	
Sandy R	edox (S5)		Umbric Surf	, ace (F13	B) (MLRA	122, 136	5) 3	<sup>3</sup> Indicators of hydrophytic vegetation and			on and
Stripped	Matrix (S6)		Piedmont FI	oodplain	Soils (F	19) <b>(MLR</b>	(A 148) wetland hydrology must be pres			esent.	
Dark Sur	face (S7)		Red Parent Material (F21) (MLRA 127, 147, 148)		, 147, 148)	unless	disturbed or	, problemati	с.		
Restrictive L	aver (if observed):										
Type:	,										
Depth (in	iches):						Hydric Soil P	resent?	Yes	No	Х
Remarks:										-	

U.S. Army WETLAND DETERMINATION DATA S See ERDC/EL TR-12-9; th	OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)					
Project/Site: Saluda Quarry		City/County: Saluda	Sampling Date: 3/9/2023			
Applicant/Owner: Luck Companies			State: SC Sampling Point: TA3 Up			
Investigator(s): T. Williams		Section, Township, Range:				
Landform (hillside, terrace, etc.): Hillside	Lo	ocal relief (concave, convex, none	e): Convex Slope (%): 7%			
Subregion (I BR or MI BA): I BR N	Lat: 33,9678	Long: -81.5	987 Datum: NAD83			
Soil Map Unit Name: ApB - Appling sandy le			NWI classification: N/A			
Are elimetic / hydrologic conditions on the sit	o typical for this time of ye	var? Vac V	(If no evolution in Remarks.)			
Are Vegetation Soil or liver						
Are Vegetation, Soil, or Hydro						
Are vegetation, Soll, or Hydro	blogy naturally probl	iematic? (If needed, explain	any answers in Remarks.)			
SUMMARY OF FINDINGS – Attach	site map showing	sampling point locations	, transects, important features, etc.			
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes         X         No           Yes         No         X           Yes         No         X	Is the Sampled Area within a Wetland?	Yes No_X			
Remarks: According to the Antecedent Precipitation C	alculator, conditions were	normal during the time of the del	ineation.			
HYDROLOGY						
Wetland Hydrology Indicators:		Sec	condary Indicators (minimum of two required)			
Primary Indicators (minimum of one is requ	red; check all that apply)		Surface Soil Cracks (B6)			
Surface Water (A1)	True Aquatic Plants	(B14)	Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)	<u> Avidized Phizosphe</u>	uor (C1)	Drainage Patterns (B10)			
Water Marks (B1)	Presence of Reduce	ed Iron (C4)	Moss Trim Lines (B16) Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Recent Iron Reducti	on in Tilled Soils (C6)	Cravfish Burrows (C8)			
Drift Deposits (B3)	Thin Muck Surface (	(C7)	Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Other (Explain in Re	emarks)	Stunted or Stressed Plants (D1)			
Iron Deposits (B5)			Geomorphic Position (D2)			
Inundation Visible on Aerial Imagery (B	7)		Shallow Aquitard (D3)			
Water-Stained Leaves (B9)			Microtopographic Relief (D4)			
Aquatic Fauna (B13)			FAC-Neutral Test (D5)			
Field Observations:						
Surface Water Present? Yes	No X Depth (Inch	ies):				
Saturation Present? Yes	No X Depth (inch	nes). Wetland Hydr	ology Present? Yes No X			
(includes capillary fringe)						
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photo	s, previous inspections), if availal	ole:			
Demeriler						
Kemarks:						

# VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: TA3 Up

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
1. Quercus nigra	5	Yes	FAC	Number of Dominant Species
2. Liquidambar styraciflua	10	Yes	FAC	That Are OBL, FACW, or FAC: 5 (A)
3. <i>Fagus grandifolia</i>	5	Yes	FACU	Total Number of Dominant
4. Carpinus caroliniana	5	Yes	FAC	Species Across All Strata: 9 (B)
5. Ilex opaca	2	No	FACU	Percent of Dominant Species
6. Quercus rubra	2	No	FACU	That Are OBL, FACW, or FAC: 55.6% (A/B)
7				Prevalence Index worksheet:
	29	=Total Cover		Total % Cover of: Multiply by:
50% of total cover: 1	5 20%	of total cover:	6	OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size: 30')				FACW species 0 x 2 = 0
1. Ilex opaca	3	Yes	FACU	FAC species 30 x 3 = 90
2. Quercus nigra	5	Yes	FAC	FACU species 14 x 4 = 56
3. Carpinus caroliniana	2	Yes	FAC	UPL species 4 x 5 = 20
4.				Column Totals: 48 (A) 166 (B)
5.				Prevalence Index = $B/A = 3.46$
6.				Hydrophytic Vegetation Indicators:
7.				1 - Rapid Test for Hydrophytic Vegetation
8.				X 2 - Dominance Test is >50%
9.		·		3 - Prevalence Index is ≤3.0 <sup>1</sup>
	10	=Total Cover		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover:	20%	of total cover	2	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 30')				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1 Trillium cuneatum	Δ	Vas	LIPI	
2 Salvia lurata		Ves		'Indicators of hydric soil and wetland hydrology must be
3	2	163	1400	Definitions of Four Vegetation Strata:
3				
4				Iree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5				height.
0		·		
/		·		<b>Sapling/Shrub</b> – Woody plants, excluding vines, less
o		·		(1 m) tall.
9		·		
10				<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall
11				
	6	=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover:	3 20%	of total cover:	2	neight.
Woody Vine Stratum (Plot size: 30')				
1. Vitis rotundifolia	3	No	FAC	
2				
3.				
4.				
5				Hydrophytic
	3	=Total Cover		Vegetation
50% of total cover:	2 20%	of total cover:	1	Present? Yes X No
Remarks: (Include photo numbers here or on a sepa	rate sheet )			

SOIL

Depth	Matrix		Redo	x Featur	es						
inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Re	marks	
0-10	10YR 4/4	100					Loamy/Cla	yey	Sandy loam		
10-18	10YR 4/6	100					Loamy/Cla	yey	San	dy loam	
		<u> </u>									
		·									
			Deduced Metric				2		Dana Linina	NA Matrix	
lype: C=C lydric Soil	Indicators:	etion, Rivi	=Reduced Matrix, I	vis=ivias	ked Sand	Grains.	L	Indicators	for Probler	natic Hvdri	ic Soil
Histosol	(A1)		Polyvalue B	elow Su	face (S8	(MLRA	147, 148)	2 cm l	Muck (A10) (	MLRA 147)	)
Histic E	pipedon (A2)		Thin Dark S	urface (S	59) <b>(MLR</b>	A 147, 14	48)	Coast	Prairie Redo	, x (A16)	
Black H	istic (A3)		Loamy Muc	ky Miner	al (F1) <b>(N</b>	ILRA 136	5)	(ML	RA 147, 148		
Hydroge	en Sulfide (A4)		Loamy Gley	ed Matri	x (F2)		,	Piedm	ont Floodpla	in Soils (F1	9)
Stratifie	d Lavers (A5)		Depleted Ma	atrix (F3)	· · ·			(ML	RA 136, 147	, )	,
2 cm M	uck (A10) <b>(LRR N)</b>		Redox Dark	Surface	(F6)			Red P	arent Materia	al (F21)	
Deplete	d Below Dark Surface	e (A11)	Depleted Da	rk Surfa	ce (F7)			(out	side MLRA	127, 147, 14	48)
 Thick D	ark Surface (A12)	· · ·	Redox Depr	essions	(F8)			Verv S	Shallow Dark	Surface (F:	22)
Sandy N	/ucky Mineral (S1)		Iron-Mangar	nese Ma	sses (F12	2) (LRR N	١,	Other	(Explain in R	emarks)	,
Sandy (	Gleved Matrix (S4)		MLRA 13	6)	,	<i>,</i> ,			Υ. Ι	,	
 Sandv F	Redox (S5)		Umbric Surf	, ace (F13	B) (MLRA	122, 136	5)	<sup>3</sup> Indicators	of hvdrophv	tic vegetatio	on and
Stripped	Matrix (S6)		Piedmont F	oodplain	Soils (F	19) <b>(MLR</b>	A 148)	wetlar	nd hvdroloav	must be pre	esent.
Dark Su	Inface (S7)		Red Parent	Material	(F21) <b>(</b> M	LRA 127	, 147, 148)	unless	s disturbed or	problemati	ic.
estrictive	Layer (if observed):										
Type:											
	nohoo);						Hydric Soi	I Present?	Yes	No	х

APPENDIX D NON-WETLAND WATERS DATA FORMS



SFA

# NC DWQ Stream Identification Form Version 4.11

Date: 3/9/2023	Project/Site: Saluda Quarry	Latitude: 33.9723
Evaluator: B. Smith	County: Saluda County	Longitude: -81.5881
Total Points: Stream is at least intermittent $20.5$ if $\geq$ 19 or perennial if $\geq$ 30*	Stream Determination (pick one) Intermittent	Other e.g. Quad Name: Batesburg,SC (2020)

A. Geomorphology (Subtotal = 11)	Absent	Weak	Moderate	Strong
1 <sup>a.</sup> Continuity of channel bed and bank	0	1	2	3
2. Sinuosity of channel along thalweg	0	1	2	3
<ol> <li>In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence</li> </ol>	0	1	2	3
4. Particle size of stream substrate	0	1	2	3
5. Active/relict floodplain	Ø	1	2	3
6. Depositional bars or benches	Ø	1	2	3
7. Recent alluvial deposits	Ø	1	2	3
8. Headcuts	0	1	2	X
9. Grade control	0	0.5	1	1.5
10. Natural valley	0	0.5	1	1.5
11. Second or greater order channel	N	0 = 🕖	Yes	= 3
<sup>a</sup> artificial ditches are not rated; see discussions in manual				
B. Hydrology (Subtotal = <u>3.5</u> )				
12. Presence of Baseflow	0	1	Z	3
13. Iron oxidizing bacteria	Ø	1	2	3
14. Leaf litter	1.5	1	0.5	0
15. Sediment on plants or debris	Ø	0.5	1	1.5
16. Organic debris lines or piles	0	Q <b>/</b> 5	1	1.5
17. Soil-based evidence of high water table?	N	0 = 🖉	Yes	= 3
C. Biology (Subtotal = $6$ )				
18. Fibrous roots in streambed	3	2	1	0
19. Rooted upland plants in streambed	3	2	1	0
20. Macrobenthos (note diversity and abundance)	0	1	2	3
21. Aquatic Mollusks	Ø	1	2	3
22. Fish	Ø	0.5	1	1.5
23. Crayfish	0	0⁄5	1	1.5
24. Amphibians	0	0,⁄5	1	1.5
25. Algae	Ø	0.5	1	1.5
26. Wetland plants in streambed		FACW = 0.75;	OBL = 1.5 Other = 🦗	ý
*perennial streams may also be identified using other methods.	See p. 35 of manua	al.		
Notes:				

SFC

# NC DWQ Stream Identification Form Version 4.11

Date: 3/9/2023	Project/Site: Saluda Quarry	Latitude: 33.9731	
Evaluator: B. Smith	County: Saluda County	Longitude: -81.5878	
Total Points: Stream is at least intermittent $19.5$ if $\geq$ 19 or perennial if $\geq$ 30*	Stream Determination (pick one) Intermittent	Other e.g. Quad Name: Batesburg,SC (2020)	

A. Geomorphology (Subtotal = 10)	Absent	Weak	Moderate	Strong
1 <sup>a.</sup> Continuity of channel bed and bank	0	1	2	3
2. Sinuosity of channel along thalweg	0	1	2	3
<ol> <li>In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence</li> </ol>	0	*	2	3
4. Particle size of stream substrate	0	1	2	3
5. Active/relict floodplain	Ø	1	2	3
6. Depositional bars or benches	Ø	1	2	3
7. Recent alluvial deposits	Ø	1	2	3
8. Headcuts	0	1	2	3
9. Grade control	0	0.5	1	1.5
10. Natural valley	0	0.5	1	1.5
11. Second or greater order channel	No	O = ∅	Yes :	= 3
<sup>a</sup> artificial ditches are not rated; see discussions in manual	•		•	
B. Hydrology (Subtotal = $\frac{2.5}{2.5}$ )				
12. Presence of Baseflow	0	*	2	3
13. Iron oxidizing bacteria	Ø	1	2	3
14. Leaf litter	1.5	1	0.5	0
15. Sediment on plants or debris	Ŵ	0.5	1	1.5
16. Organic debris lines or piles	0	0,⁄5	1	1.5
17. Soil-based evidence of high water table?	No	<b>○</b> = <b>∅</b>	Yes :	= 3
C. Biology (Subtotal = $\frac{7}{2}$ )				
18. Fibrous roots in streambed	3	Z	1	0
19. Rooted upland plants in streambed	X	2	1	0
20. Macrobenthos (note diversity and abundance)	0	1	2	3
21. Aquatic Mollusks	Ø	1	2	3
22. Fish	Ø	0.5	1	1.5
23. Crayfish	0	0,5	1	1.5
24. Amphibians	0	0,⁄5	1	1.5
25. Algae	Ø	0.5	1	1.5
26. Wetland plants in streambed		FACW = 0.75;	OBL = 1.5 Other = 🦗	ſ
*perennial streams may also be identified using other methods.	. See p. 35 of manua	al.		
Notes:				
Sketch:				

SFD

# NC DWQ Stream Identification Form Version 4.11

Date: 3/9/2023	Project/Site: Saluda Quarry	Latitude: 33.9711
Evaluator: B. Smith	County: Saluda County	Longitude: -81.5954
Total Points: Stream is at least intermittent $27.5$ if $\geq$ 19 or perennial if $\geq$ 30*	Stream Determination (pick one) Intermittent	Other e.g. Quad Name: Batesburg,SC (2020)

A. Geomorphology (Subtotal = 15)	Absent	Weak	Moderate	Strong
1 <sup>a</sup> Continuity of channel bed and bank	0	1	2	3
2. Sinuosity of channel along thalweg	0	1	2	X
3. In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence	0	1	Z	3
4. Particle size of stream substrate	0	1	2	3
5. Active/relict floodplain	0	1	2	3
6. Depositional bars or benches	0	1	2	3
7. Recent alluvial deposits	Ø	1	2	3
8. Headcuts	0	1	<b>Z</b>	3
9. Grade control	0	0/5	1	1.5
10. Natural valley	0	0.5	1	1⁄.5
11. Second or greater order channel	N	D = ∅	Yes =	= 3
<sup>a</sup> artificial ditches are not rated; see discussions in manual	•			
B. Hydrology (Subtotal =)				
12. Presence of Baseflow	0	1	1	3
13. Iron oxidizing bacteria	Ø	1	2	3
14. Leaf litter	1⁄.5	1	0.5	0
15. Sediment on plants or debris	Ø	0.5	1	1.5
16. Organic debris lines or piles	0	0,⁄5	1	1.5
17. Soil-based evidence of high water table?	N	<b>○</b> = <b>∅</b>	Yes =	= 3
C. Biology (Subtotal = $8.5$ )	·			
18. Fibrous roots in streambed	3	2	1	0
19. Rooted upland plants in streambed	<b>X</b>	2	1	0
20. Macrobenthos (note diversity and abundance)	0	1	2	3
21. Aquatic Mollusks	Ø	1	2	3
22. Fish	0	0⁄5	1	1.5
23. Crayfish	0	0⁄5	1	1.5
24. Amphibians	0	0,⁄5	1	1.5
25. Algae	Ø	0.5	1	1.5
26. Wetland plants in streambed		FACW = 0.75;	OBL = 1.5 Other = €	٢
*perennial streams may also be identified using other methods.	See p. 35 of manua	al.		
Notes:				

SMA

# NC DWQ Stream Identification Form Version 4.11

Date: 3/9/2023	Project/Site: Saluda Quarry	Latitude: 33.9665
Evaluator: M. McKnight	County: Saluda County Longitude: -81.591	
Total Points: Stream is at least intermittent $41.5$ if $\geq$ 19 or perennial if $\geq$ 30*	Stream Determination (pick one) Perennial	Other e.g. Quad Name: Batesburg,SC (2020)

A. Geomorphology (Subtotal = $\frac{22.5}{2}$ )	Absent	Weak	Moderate	Strong
1 <sup>a.</sup> Continuity of channel bed and bank	0	1	2	X
2. Sinuosity of channel along thalweg	0	1	1 1	3
<ol> <li>In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence</li> </ol>	0	1	7	3
4. Particle size of stream substrate	0	1	2	ð
5. Active/relict floodplain	0	1	2	3
6. Depositional bars or benches	0	1	2	ð
7. Recent alluvial deposits	0	1	2	3
8. Headcuts	0	1	2	3
9. Grade control	0	0.5	1	1.5
10. Natural valley	0	0.5	1	1⁄.5
11. Second or greater order channel	N	o = 0	Yes	= 🎸
<sup>a</sup> artificial ditches are not rated; see discussions in manual				
B. Hydrology (Subtotal = $7$ )				
12. Presence of Baseflow	0	1	2	ð
13. Iron oxidizing bacteria	0	1	2	3
14. Leaf litter	1,⁄5	1	0.5	0
15. Sediment on plants or debris	0	Q <b>/</b> 5	1	1.5
16. Organic debris lines or piles	0	0.5	1	1.5
17. Soil-based evidence of high water table?	N	o = 🕖	Yes	= 3
C. Biology (Subtotal = $12$ )				
18. Fibrous roots in streambed	X	2	1	0
19. Rooted upland plants in streambed	3	2	1	0
20. Macrobenthos (note diversity and abundance)	0	1	1	3
21. Aquatic Mollusks	Ø	1	2	3
22. Fish	0	0,⁄5	1	1.5
23. Crayfish	0	0.5	1	1⁄.5
24. Amphibians	0	0.5	1	1⁄.5
25. Algae	0	0,⁄5	1	1.5
26. Wetland plants in streambed		FACW = 0.75;	OBL = 1.5 Other = 🕻	ð
*perennial streams may also be identified using other methods. See p. 35 of manual.				
Notes:				

SMB

# NC DWQ Stream Identification Form Version 4.11

Date: 3/10/2023	Project/Site: Saluda Quarry	Latitude: 33.9666
Evaluator: M. McKnight, B. Smith, T. Williams	County: Saluda County Longitude: -81.5897	
Total Points: Stream is at least intermittent $23$ if $\geq$ 19 or perennial if $\geq$ 30*	Stream Determination (pick one) Intermittent	Other e.g. Quad Name: Batesburg,SC (2020)

A. Geomorphology (Subtotal = $\frac{12.5}{100}$ )	Absent	Weak	Moderate	Strong
1 <sup>a</sup> Continuity of channel bed and bank	0	1	2	3
2. Sinuosity of channel along thalweg	0	1	2	3
<ol> <li>In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence</li> </ol>	0	1	2	3
4. Particle size of stream substrate	0	1	2	3
5. Active/relict floodplain	Ø	1	2	3
6. Depositional bars or benches	Ø	1	2	3
7. Recent alluvial deposits	Ø	1	2	3
8. Headcuts	0	1	2	X
9. Grade control	0	0.5	*	1.5
10. Natural valley	0	0.5	1	1⁄.5
11. Second or greater order channel	No	D = <b>∅</b>	Yes :	= 3
<sup>a</sup> artificial ditches are not rated; see discussions in manual			·	
B. Hydrology (Subtotal = $2.5$ )			<u>.</u>	
12. Presence of Baseflow	0	X	2	3
13. Iron oxidizing bacteria	Ø	1	2	3
14. Leaf litter	1.5	<b>X</b>	0.5	0
15. Sediment on plants or debris	Ń	0.5	1	1.5
16. Organic debris lines or piles	0	Q <b>/</b> 5	1	1.5
17. Soil-based evidence of high water table?	No	D = ∅	Yes :	= 3
C. Biology (Subtotal = $\underline{8}$ )				
18. Fibrous roots in streambed	3	2	1	0
19. Rooted upland plants in streambed	ø	2	1	0
20. Macrobenthos (note diversity and abundance)	0	1	2	3
21. Aquatic Mollusks	Ø	1	2	3
22. Fish	Ø	0.5	1	1.5
23. Crayfish	0	0,5	1	1.5
24. Amphibians	0	0,⁄5	1	1.5
25. Algae	Ø	0.5	1	1.5
26. Wetland plants in streambed		FACW = 0.75;	OBL = 1.5 Other = 🥠	5
*perennial streams may also be identified using other methods.	See p. 35 of manua	al.		
Notes:				
1				
Sketch:				

SMC

# NC DWQ Stream Identification Form Version 4.11

Date: 3/9/2023	Project/Site: Saluda Quarry	Latitude: 33.9669
Evaluator: M. McKnight	County: Saluda County	Longitude: -81.5914
<b>Total Points:</b> Stream is at least intermittent 30 if $\geq$ 19 or perennial if $\geq$ 30*	Stream Determination (pick one) Perennial	Other e.g. Quad Name: Batesburg,SC (2020)

A. Geomorphology (Subtotal = 15)	Absent	Weak	Moderate	Strong
1 <sup>a.</sup> Continuity of channel bed and bank	0	1	2	ø
2. Sinuosity of channel along thalweg	0	1	2	X
3. In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence	0	1	7	3
4. Particle size of stream substrate	0	1	2	3
5. Active/relict floodplain	Ø	1	2	3
6. Depositional bars or benches	0	1	2	3
7. Recent alluvial deposits	Ø	1	2	3
8. Headcuts	0	1	2	3
9. Grade control	0	0,⁄5	1	1.5
10. Natural valley	0	0.5	1	1⁄.5
11. Second or greater order channel	No	⊃ = <b>∅</b>	Yes :	= 3
<sup>a</sup> artificial ditches are not rated; see discussions in manual			•	
B. Hydrology (Subtotal = <u>6</u> )				
12. Presence of Baseflow	0	1	2	ø
13. Iron oxidizing bacteria	Ø	1	2	3
14. Leaf litter	1,⁄.5	1	0.5	0
15. Sediment on plants or debris	0	Q <b>/</b> 5	1	1.5
16. Organic debris lines or piles	0	0.5	1	1.5
17. Soil-based evidence of high water table?	No = Ø Yes = 3			= 3
C. Biology (Subtotal = $\underline{9}$ )				
18. Fibrous roots in streambed	3	2	1	0
19. Rooted upland plants in streambed	3	2	1	0
20. Macrobenthos (note diversity and abundance)	0	*	2	3
21. Aquatic Mollusks	Ø	1	2	3
22. Fish	Ø	0.5	1	1.5
23. Crayfish	0	0.5	1	1.5
24. Amphibians	0	0.5	1	1.5
25. Algae	Ø	0.5	1	1.5
26. Wetland plants in streambed		FACW = 0.75;	OBL = 1.5 Other = 🦋	5
*perennial streams may also be identified using other methods.	See p. 35 of manua	al.		
Notes:				

SMCI

# NC DWQ Stream Identification Form Version 4.11

Date: 3/9/2023	Project/Site: Saluda Quarry	Latitude: 33.9669
Evaluator: M. McKnight	County: Saluda County	Longitude: -81.5889
Total Points: Stream is at least intermittent $22$ if $\geq$ 19 or perennial if $\geq$ 30*	Stream Determination (pick one) Intermittent	Other e.g. Quad Name: Batesburg,SC (2020)

A. Geomorphology (Subtotal = 10)	Absent	Weak	Moderate	Strong
1 <sup>a.</sup> Continuity of channel bed and bank	0	1	2	3
2. Sinuosity of channel along thalweg	0	1	2	3
<ol> <li>In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence</li> </ol>	0	1	2	3
4. Particle size of stream substrate	0	1	2	3
5. Active/relict floodplain	ø	1	2	3
6. Depositional bars or benches	Ø	1	2	3
7. Recent alluvial deposits	Ø	1	2	3
8. Headcuts	0	1	2	3
9. Grade control	0	0,⁄5	1	1.5
10. Natural valley	0	0.5	1	1⁄.5
11. Second or greater order channel	No	o = ∅	Yes	= 3
<sup>a</sup> artificial ditches are not rated; see discussions in manual			•	
B. Hydrology (Subtotal = _4)			<u>.</u>	
12. Presence of Baseflow	0	1	1	3
13. Iron oxidizing bacteria	Ø	1	2	3
14. Leaf litter	1.5	1	0.5	0
15. Sediment on plants or debris	Ø	0.5	1	1.5
16. Organic debris lines or piles	0	0.5	1	1.5
17. Soil-based evidence of high water table?	No	S = <b>∅</b>	Yes :	= 3
C. Biology (Subtotal = <u>8</u> )				
18. Fibrous roots in streambed	<b>X</b>	2	1	0
19. Rooted upland plants in streambed	X	2	1	0
20. Macrobenthos (note diversity and abundance)	0	1	2	3
21. Aquatic Mollusks	ø	1	2	3
22. Fish	Ø	0.5	1	1.5
23. Crayfish	0	0⁄5	1	1.5
24. Amphibians	0	0,⁄5	1	1.5
25. Algae	Ø	0.5	1	1.5
26. Wetland plants in streambed		FACW = 0.75;	OBL = 1.5 Other = 🥢	ý
*perennial streams may also be identified using other methods. See p. 35 of manual.				
Notes:				

SMD

# NC DWQ Stream Identification Form Version 4.11

Date: 3/9/2023	Project/Site: Saluda Quarry	Latitude: 33.9666
Evaluator: M. McKnight	County: Saluda County	Longitude: -81.5865
Total Points: Stream is at least intermittent 22 if ≥ 19 or perennial if ≥ 30*	Stream Determination (pick one) Intermittent	Other e.g. Quad Name: Batesburg,SC (2020)

A. Geomorphology (Subtotal = 10)	Absent	Weak	Moderate	Strong
1 <sup>a.</sup> Continuity of channel bed and bank	0	1	2	3
2. Sinuosity of channel along thalweg	0	1	2	3
<ol> <li>In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence</li> </ol>	0	4	2	3
4. Particle size of stream substrate	0	1	2	3
5. Active/relict floodplain	0	1	2	3
6. Depositional bars or benches	Ø	1	2	3
7. Recent alluvial deposits	<b>Ö</b>	1	2	3
8. Headcuts	0	1	2	3
9. Grade control	0	0.5	1	1.5
10. Natural valley	0	0.5	1	1.5
11. Second or greater order channel	N	0 = 🕖	Yes	= 3
<sup>a</sup> artificial ditches are not rated; see discussions in manual				
B. Hydrology (Subtotal = $3.5$ )			-	
12. Presence of Baseflow	0	1	2	3
13. Iron oxidizing bacteria	Ø	1	2	3
14. Leaf litter	1.5	4	0.5	0
15. Sediment on plants or debris	Ø	0.5	1	1.5
16. Organic debris lines or piles	0	Q <b>/</b> 5	1	1.5
17. Soil-based evidence of high water table?	No = 🖉 Yes = 3			= 3
C. Biology (Subtotal = $\frac{8.5}{2}$ )				
18. Fibrous roots in streambed	X	2	1	0
19. Rooted upland plants in streambed	X	2	1	0
20. Macrobenthos (note diversity and abundance)	0	1	2	3
21. Aquatic Mollusks	Ý	1	2	3
22. Fish	Ø	0.5	1	1.5
23. Crayfish	0	0.5	1	1.5
24. Amphibians	0	0.5	1	1.5
25. Algae	Ø	0.5	1	1.5
26. Wetland plants in streambed		FACW = 0.75;	OBL = 1.5 Other = 🦗	ſ
*perennial streams may also be identified using other methods.	See p. 35 of manua	al.		
Notes:				

STA

# NC DWQ Stream Identification Form Version 4.11

Date: 3/9/2023	Project/Site: Saluda Quarry	Latitude: 33.9707
Evaluator: T. Williams	County: Saluda County	Longitude: -81.5982
Total Points: Stream is at least intermittent $43$ if $\geq$ 19 or perennial if $\geq$ 30*	Stream Determination (pick one) Perennial	Other e.g. Quad Name: Batesburg,SC (2020)

A. Geomorphology (Subtotal = 22.5 )	Absent	Weak	Moderate	Strong
1 <sup>a.</sup> Continuity of channel bed and bank	0	1	2	ø
2. Sinuosity of channel along thalweg	0	1	2	3
<ol> <li>In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence</li> </ol>	0	1	7	3
4. Particle size of stream substrate	0	1	2	ø
5. Active/relict floodplain	0	1	2	3
6. Depositional bars or benches	0	1	2	ø
7. Recent alluvial deposits	0	1	2	3
8. Headcuts	0	1	<b>Z</b>	3
9. Grade control	0	0.5	1	1.5
10. Natural valley	0	0.5	1	1⁄.5
11. Second or greater order channel	No	o = 0	Yes	= 🎸
<sup>a</sup> artificial ditches are not rated; see discussions in manual			•	
B. Hydrology (Subtotal = $\frac{7.5}{}$ )				
12. Presence of Baseflow	0	1	2	8
13. Iron oxidizing bacteria	0	1	<b>Z</b>	3
14. Leaf litter	1.5	1	0.5	0
15. Sediment on plants or debris	0	0⁄5	1	1.5
16. Organic debris lines or piles	0	0.5	1	1.5
17. Soil-based evidence of high water table?	No	⊃ = <b>∅</b>	Yes	= 3
C. Biology (Subtotal = $13$ )			·	
18. Fibrous roots in streambed	3	2	1	0
19. Rooted upland plants in streambed	3	2	1	0
20. Macrobenthos (note diversity and abundance)	0	1	2	3
21. Aquatic Mollusks	0	1	2	3
22. Fish	0	0/5	1	1.5
23. Crayfish	0	0.5	1	1⁄.5
24. Amphibians	0	0.5	1	1⁄.5
25. Algae	0	0,⁄5	1	1.5
26. Wetland plants in streambed		FACW = 0.75;	OBL = 1.5 Other = 🕻	ð
*perennial streams may also be identified using other methods.	See p. 35 of manua	al.		
Notes:				

APPENDIX E SITE PHOTOGRAPHS





PHOTO 1: Typical Project Upland - Forested



PHOTO 2: Non-Wetland Water SMC (Perennial)

Project No.: <u>4780-021</u>

Date: March 2023

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PHOTO 3: Non-Wetland Water SMCI (Intermittent)



PHOTO 4: Wetland MA

Project No.: <u>4780-021</u>

Date: March 2023

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PHOTO 5: Non-Wetland Water SMD (Intermittent)



PHOTO 6: Wetland MB

Project No.: <u>4780-021</u>

Date: March 2023

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PHOTO 7: Wetland MB



PHOTO 8: Project Boundary

Project No.: <u>4780-021</u>

Date: March 2023

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PHOTO 9: Typical Project Upland - Rock Outcrops



PHOTO 10: Non-Wetland Water STA (Perennial)

Project No.: <u>4780-021</u>

Date: March 2023

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PHOTO 11: Non-Wetland Water STA (Perennial)



PHOTO 12: Typical Project Upland - Hardwoods and Planted Pines

Project No.: <u>4780-021</u>

Date: March 2023

Site Photographs Luck Companies Saluda Quarry Saluda County, SC



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PHOTO 13: Typical Project Upland - Planted Pines



PHOTO 14: Typical Project Upland - Forested

Project No.: <u>4780-021</u>

Date: March 2023

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PHOTO 15: Typical Project Upland - Planted Pines



PHOTO 16: Non-Wetland Water SFA (Intermittent)

Project No.: <u>4780-021</u>

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PHOTO 17: Non-Wetland Water SFA (Intermittent)



PHOTO 18: Non-Wetland Water SFC (Intermittent)

Project No.: <u>4780-021</u>

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PHOTO 19: Typical Project Upland - Rock Outcrops



PHOTO 20: Non-Wetland Water SFD (Intermittent)

Project No.: <u>4780-021</u>

Date: March 2023

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PHOTO 21: Non-Wetland Water SFD (Intermittent)



PHOTO 22: Typical Project Upland - Forested

Project No.: <u>4780-021</u>

Date: March 2023

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PHOTO 23: Non-Wetland Water SFD (Intermittent)



PHOTO 24: Non-Wetland Water STA (Perennial)

Project No.: <u>4780-021</u>

Date: March 2023

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PHOTO 25: Typical Project Upland – Flat Rock Branch Floodplain



PHOTO 26: Wetland FA

Project No.: <u>4780-021</u>

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PHOTO 27: Culvert Associated With Non-Wetland Water STA (Perennial) Road Crossing



PHOTO 28: Road Crossing Associated With Non-Wetland Water STA (Perennial)

Project No.: <u>4780-021</u>

Date: March 2023

Site Photographs Luck Companies Saluda Quarry Saluda County, SC



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PHOTO 29: Typical Project Upland – Forested



PHOTO 30: Site Entrance Road

Project No.: <u>4780-021</u>

Date: March 2023

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PHOTO 31: Typical Project Upland – Planted Pines



PHOTO 32: Typical Project Upland – Rock Outcrops

Project No.: <u>4780-021</u>

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PHOTO 33: Typical Project Upland – Rock Outcrops



PHOTO 34: Typical Project Upland – Rock Outcrops

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Date: March 2023

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PHOTO 35: Typical Project Upland – Planted Pines



PHOTO 36: Typical Project Upland – Rock Outcrops

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PHOTO 37: Typical Project Upland - Forested



PHOTO 38: Typical Project Upland – Planted Pines

Project No.: <u>4780-021</u>

Date: March 2023

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PHOTO 39: Typical Project Upland – Planted Pines



PHOTO 40: Typical Project Upland - Forested

Project No.: <u>4780-021</u>

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PHOTO 41: Typical Project Upland – Rock Outcrops



PHOTO 42: Typical Project Upland – Forested

Project No.: <u>4780-021</u>

Date: March 2023

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PHOTO 43: Typical Project Upland – Planted Pines



PHOTO 44: Typical Project Upland – Planted Pines

Project No.: <u>4780-021</u>

Date: March 2023

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PHOTO 45: Typical Project Upland – Planted Pines



PHOTO 46: Typical Project Upland – Rock Outcrops

Project No.: <u>4780-021</u>

Date: March 2023

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# APPENDIX F PRECIPITATION AND DROUGHT DATA





GILBERT 1.2 SSW

GILBERT 1.0 SE

SALUDA

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

	Daily Total 30-Day Rolling Total 30-Year Normal Range	

May	Jun	Jul
2023	2023	2023

ondition Value	Month Weight	Product
1	3	3
3	2	6
2	1	2
		Normal Conditions - 11

evation $\Delta$	Weighted $\Delta$	Days Normal	Days Antecedent
197.08	3.756	11061	90
8.202	0.773	47	0
105.971	2.163	35	0
140.092	3.506	3	0
27.231	4.01	59	0
126.969	4.92	1	0
174.213	4.949	17	0
166.995	5.613	1	0
180.118	9.302	129	0

8.528

7.929

9.097

14.762

485.892

493.11

479.987

33.9071, -81.4009

33.9919, -81.7714

33.915, -81.3813



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

RIDGE SPRING 0.4 SSW 33.84, -81.6663 632.874 8.403 33.9244, -81.3931 GILBERT 0.0 NE 533.136 8.528 GILBERT 1.2 SSW 485.892 33.9071, -81.4009 7.929 493.11 9.097 GILBERT 1.0 SE 33.915, -81.3813 SALUDA 479.987 33.9919, -81.7714 14.762

	Daily Total 30-Day Rolling Total 30-Year Normal Range	

May	Jun	Jul
2023	2023	2023

ondition Value	Month Weight	Product
1	3	3
3	2	6
2	1	2
		Normal Conditions - 11

evation $\Delta$	Weighted $\Delta$	Days Normal	Days Antecedent
197.08	3.756	11061	90
8.202	0.773	47	0
105.971	2.163	35	0
140.092	3.506	3	0
27.231	4.01	59	0
126.969	4.92	1	0
174.213	4.949	17	0
166.995	5.613	1	0
180.118	9.302	129	0

# U.S. Drought Monitor **South Carolina**

# March 14, 2023

(Released Thursday, Mar. 16, 2023)

# Valid 8 a.m. EDT

Drought Conditions (Percent Area)



	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	97.12	2.88	0.00	0.00	0.00	0.00
Last Week 03-07-2023	97.12	2.88	0.00	0.00	0.00	0.00
<b>3 Months Ago</b> 12-13-2022	39.97	60.03	10.67	0.00	0.00	0.00
Start of Calendar Year 01-03-2023	49.44	50.56	10.67	0.00	0.00	0.00
Start of Water Year 09-27-2022	63.65	36.35	4.72	0.00	0.00	0.00
One Year Ago 03-15-2022	26.41	73.59	37.78	0.00	0.00	0.00

# Intensity:

None D0 Abnormally Dry





D1 Moderate Drought

D3 Extreme Drought D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

# Author:

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