JD Checklist*

	Action	SCE Confire			sultant irmation
1	Is the Jurisdictional Determiniation Request Form completed and signed?	Υ	N	Y	N
2	Does the JD packet include:	Υ	N	Υ	N
а) Location Map	Υ	N	Y	N
b) Aerial photograph with project boundary?	Υ	N	Y	N
С) Topographic map with project boundary?	Υ	N	Y	N
d) Soil survey map with project boundary?	Υ	N	Y	N
е) Photographs of the site, wetlands, streams, ditches, etc?	Υ	N	Y	N
f) Table with Latitude and Longitude for each jurisdictional feature (wetland, stream pond, etc.)?	Υ	N	Y	N
3	Is the project boundary large enough to encompass all potential impacts including construction access?	Υ	N	Y	N
4	Is the acerage for the project area included on the wetland map?	Υ	N	Y	N
5	Are all wetlands and streams identified on a map or drawing?	Υ	N	Y	N
6	Is there a map included showing the surface connection of how the stream, wetland, or ditch connects to a downstream (named) tributary?	Υ	N	Y	N
b) Do all identified streams contain a clear line or polygon with linear footage?	Υ	N	Y	N
7	Could you use the maps and drawings to easily locate the site and the boundaries of the wetlands within the project area <u>without the consultant</u> <u>present</u> ?	Y	N	Y	N
8	Data Sheets:				
a) Are data sheets included?	Υ	N	Y	N
b) Is a refrence map included to indicate where the data points are located?	Υ	N	Y	N

SCDOT

Wake Filter

Consultant

^{*} This checklist includes information that is not necessarily required for a Jurisdictional Determiniation but will ensure a streamlined review

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)

I. PROPERTY AND AGENT INFORMATION

(ph) 843-329-8044 SAC.RD.Charleston@usace.army.mil

A. Site Details/Location:			
Site Name:		Date:	
City/Township/Parish:	Co	ounty: Acreage:	
Latitude/Longitude:		Acreage:	
Tax Map Sequence (TMS) #(s): _			
Property Address(es):	man and visinity man identifying I	ocation and review area for the JE	2/delinection
		, tax map, or GPS coordinates). Ta	
site includes the entire tax map p		, tax map, or Gr 3 coordinates). To	ax maps may only be used if the
B. Requestor of Jurisdictional I Name:	·	ere are multiple property owners, p	olease attach additional pages)
Company Name (<i>if applicable</i>): Address:			
Phone:	Email:		
i plan to purcha	ac tilla property		
Consultant/Agent Name:	ltant Acting on Behalf of the Re		
Address:		_ Phone:	
Email:		_ 1 110116	
aquatic resources. I intend to construct/develop	a project or perform activities on t	this site which would be designed	
jurisdictional aquatic resource	· · · · · · · · · · · · · · · · · · ·		
		this site which may require authori avoid and minimize impacts to juri	
	ep in a future permitting process.	avolu and minimize impacts to juni	sulctional aquatic
		this site which may require authori	ization from the
		nd the jurisdictional determination	
I intend to construct/develop the tide.	a project or perform activities in a	navigable water of the U.S. which	is subject to the ebb and flow of
A Corps jurisdictional determ	ination is required in order to obta	ain my local/state authorization.	
	-	e and the request the Corps to co	nfirm that
	kist over the aquatic resource on t		
	comprised entirely of dry land.	•	
Other:			
Charleston Office: US Army Corps of Engineers Regulatory Division 69A Hagood Avenue Charleston, SC 29403	Columbia Office: US Army Corps of Engineers Regulatory Office 1835 Assembly Street, Room 865 B-1 Columbia, SC 29201	Conway Office: US Army Corps of Engineers Regulatory Office 1949 Industrial Park Road, Room 140 Conway, SC 29526	Greenville Office: US Army Corps of Engineers Regulatory Office 150 Executive Center Drive, Suite 205 Greenville, SC 29615

*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.

(ph) 843-365-4239

SAC.RD.Conway@usace.army.mil

(ph) 803-253-3444 SAC.RD.Columbia@usace.army.mil

<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.

<u>Disclosure</u>: 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.

(ph) 864-609-4326

SAC.RD.Greenville@usace.army.mil

III. TYPE OF REQUEST:	
Delineation Concurrence ¹	
Approved ² Jurisdictional Determination (AJD) Only	
Preliminary ³ Jurisdictional Determination (PJD) Only	
Approved Jurisdictional Determination (AJD) with submit Department of the Army permit application	ttal of a Pre-Construction Notification or
Preliminary Jurisdictional Determination (PJD) with submoderation (PJD) with submoderation	nittal of a Pre-Construction Notification or
Delineation of Wetlands and/or Other Aquatic Resource: Consultant with submittal of a Pre-Construction Notification determination requested)	s Only Conducted By Agent/Environmental n or Department of the Army permit application (No jurisdictional
I request that the Corps delineate the wetlands and/or othe attached Pre-Construction Notification or Department of	r aquatic resources that may be present on my property with the f the Army permit application
I request that the Corps delineate the wetlands and/or othe Delineation Only, an AJD or PJD	r aquatic resources that may be present on my property with a
"No Permit Required" (NPR) Letter as I believe my propos	sed activity is not regulated ⁴
Unclear as to which jurisdictional determination I would like information to inform my decision	to request and require additional
¹ <u>Delineation Concurrence</u> (DC) – A DC provides concurrence that the de representation of the aquatic resources on-site. A DC does not address the	
	s explained in further detail in RGL 16-01, an AJD is used to indicate that this uatic resources on a site, including their accurate location(s) and boundaries,
office has identified the approximate location(s) and boundaries of wetlan	s explained in further detail in RGL 16-01, a PJD is used to indicate that this ds and/or other aquatic resources on a site that are presumed to be subject 0 does not represent a definitive, official determination that there are, or that e an expiration date.
⁴ "No Permit Required" (NPR) Letter- A NPR letter may be provided by th (authorization) from the Corps; this letter can only be used if the proposed occur. A NPR letter cannot be used to indicate the presence or absence of their jurisdictional status.	
IV. <u>LEGAL RIGHT OF ENTRY</u>	
authority, to and do hereby grant U.S. Army Corps of Engineers pathis request for the purposes of conducting on-site investigations	acting as the duly authorized agent of a person or entity with such personnel right of entry to legally access the property(ies) subject to (e.g., digging and refilling shallow holes) and issuing a jurisdictional that I possess the requisite property rights to request a jurisdictional
Mailing Address	Property Address / TMS #(s)
Email Address	Daytime Phone Number
*Signature:	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.

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.

SC 4 over South Fork Edisto River Bridge Replacement

Aiken County, South Carolina

Preliminary Jurisdictional Determination Package



Prepared for:



Prepared by:

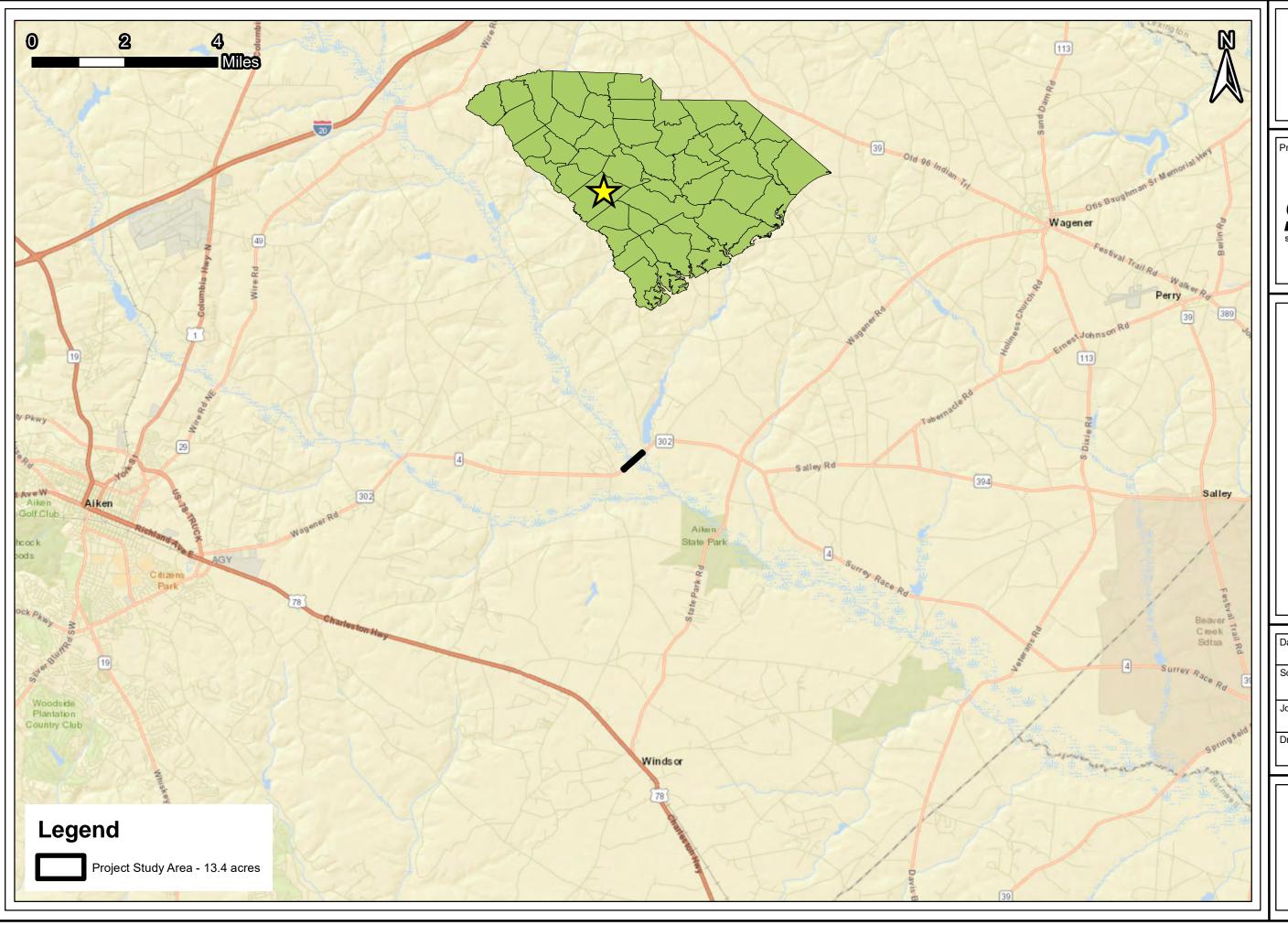


1022 State Street, Building 2 Cayce, South Carolina 29033

February 12, 2021

Table 1: Delineated Features

Delineated Wetlands	Area (Acres)	Latitude	Longitude
WC	0.1	33.578486	-81.513836
WD	0.2	33.578597	-81.514491
WE	2.0	33.577196	-81.515892
WF	3.2	33.575834	-81.517775
Delineated Streams	Length (Linear Feet)	Latitude	Longitude
SWA	202	33.576726	-81.516594







SC 4 over South Fork Edisto River Bridge Replacement

Preliminary Jurisdictional Determination

Aiken County, South Carolina

Date:

February 12, 2021

scale:

1 in = 2 miles

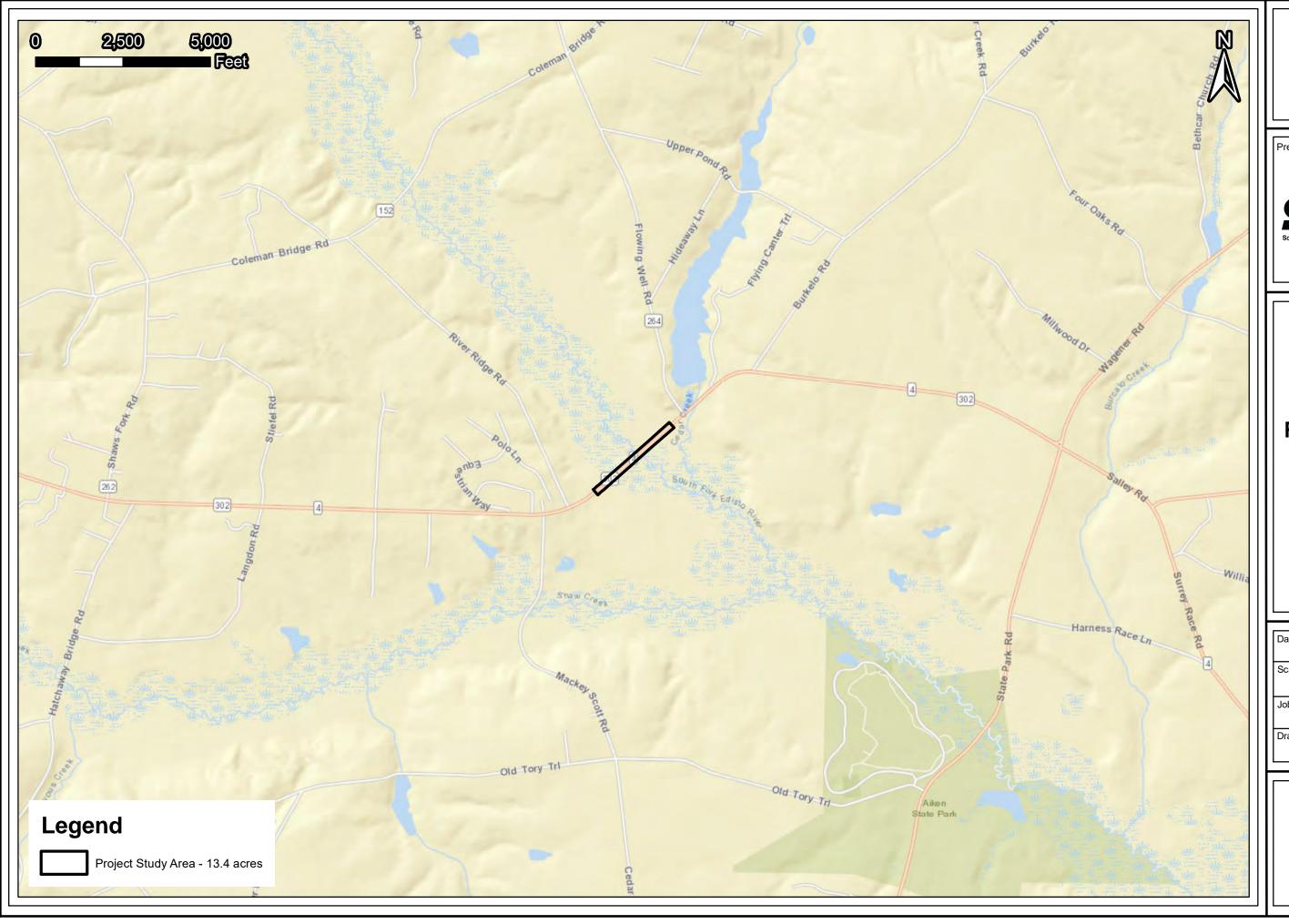
Job No.:

21-101 / P040306 rawn By: Checked By:

Drawn By: WCB

TRC

Small Scale Location Map







SC 4 over **South Fork Edisto River Bridge** Replacement

> Preliminary Jurisdictional Determination

Aiken County, South Carolina

February 12, 2021

1 in = 2,500 ft

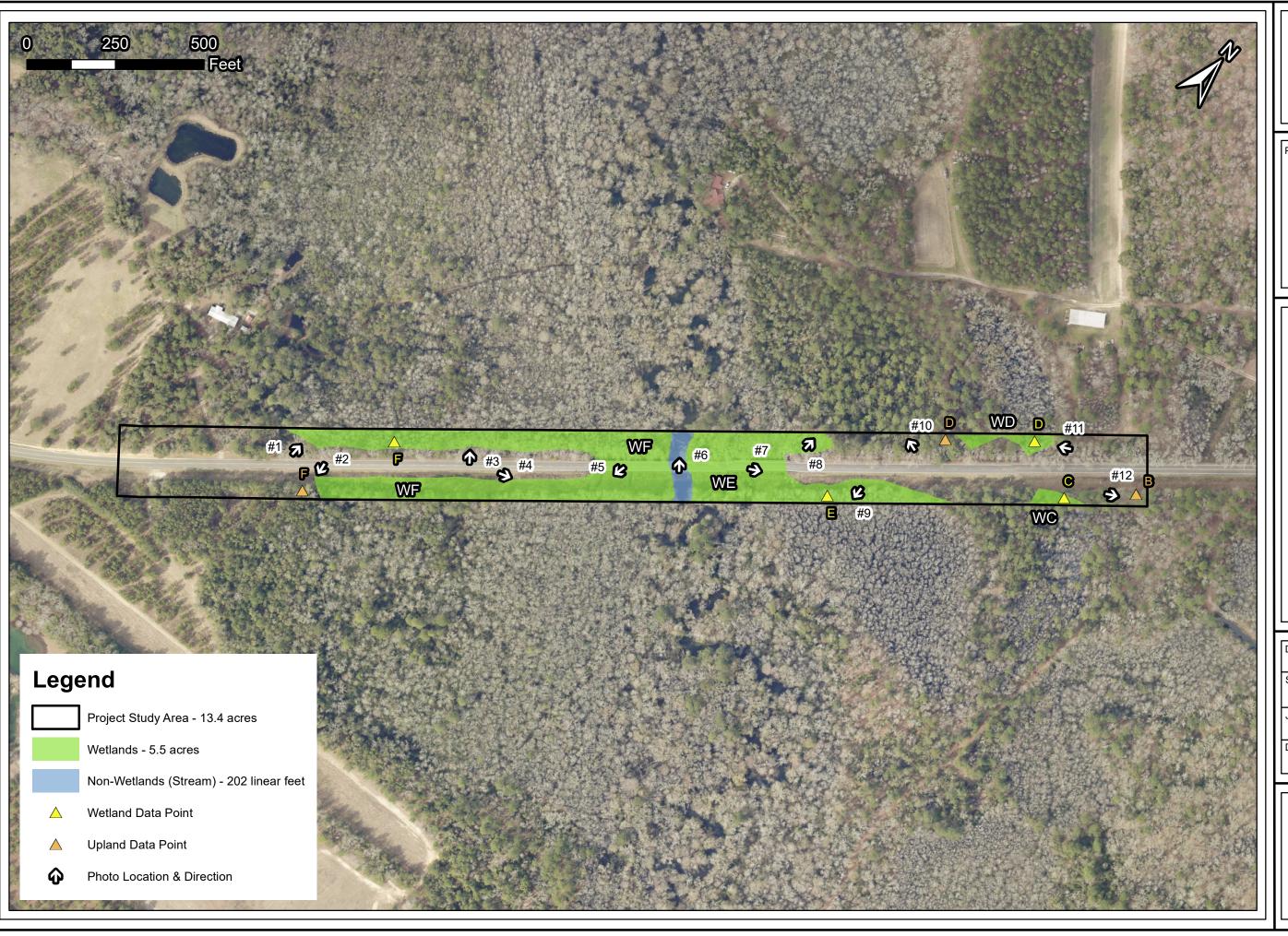
Job No.:

21-101 / P040306 Checked By:

Drawn By: WCB

TRC

Large Scale Location Map







SC 4 over South Fork Edisto River Bridge Replacement

Preliminary Jurisdictional Determination

Aiken County, South Carolina

Date:

February 12, 2021

cale:

1 in = 250 ft

ob No.:

21-101 / P040306

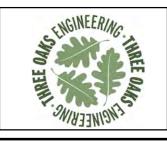
Drawn By: WCB

Checked By: TRC

Delineated Features

Supplemental Maps







SC 4 over South Fork Edisto River Bridge Replacement

Preliminary Jurisdictional Determination

Aiken County, South Carolina

Date:

February 12, 2021

cale:

1 in = 250 ft

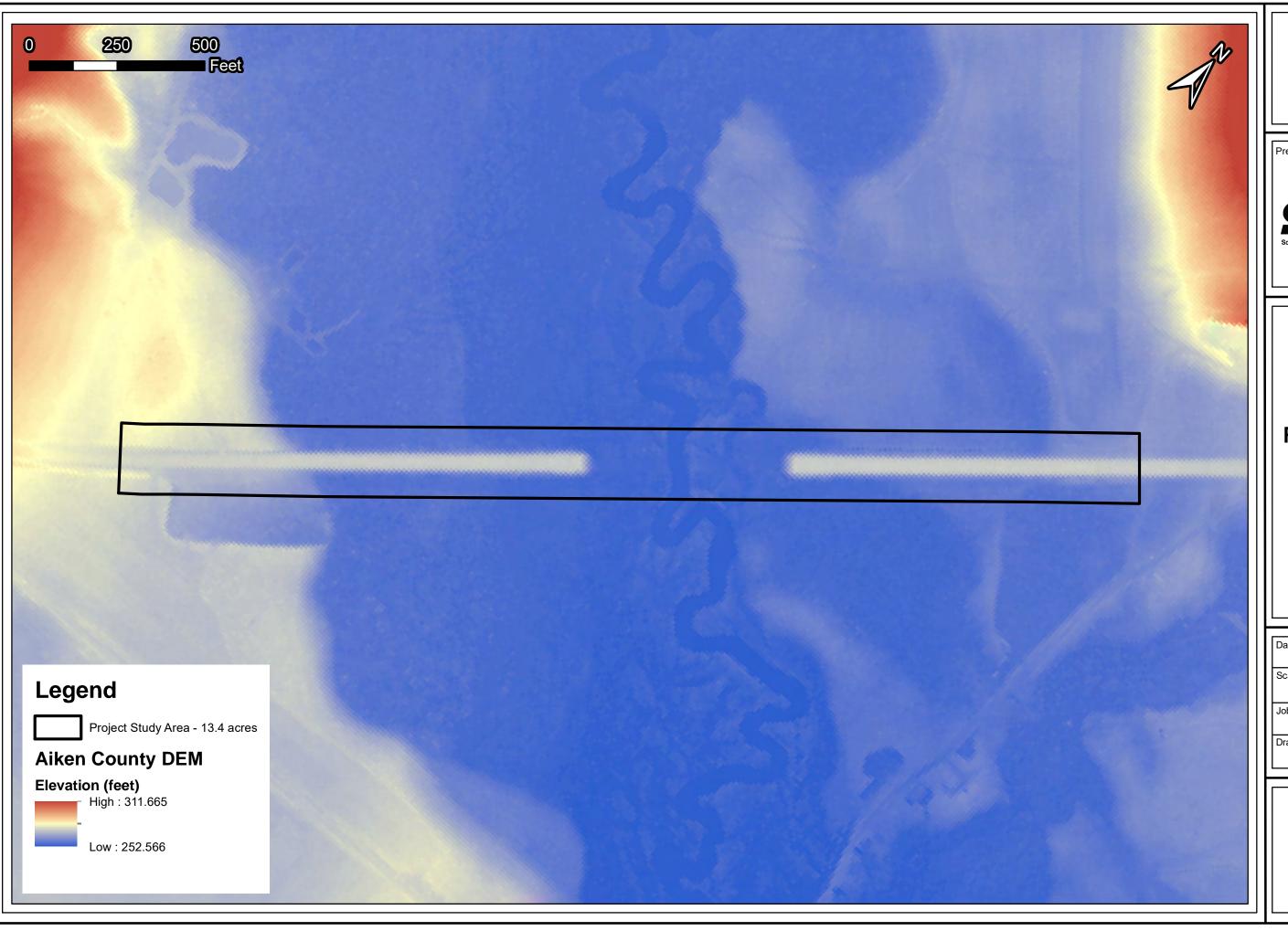
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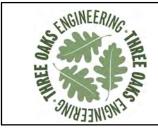
21-101 / P040306

Drawn By:

Checked By:

Aerial Imagery







SC 4 over **South Fork Edisto River** Bridge Replacement

Preliminary Jurisdictional Determination

Aiken County, South Carolina

February 12, 2021

1 in = 250 ft

21-101 / P040306

Drawn By: WCB Checked By: TRC

Aerial Imagery







SC 4 over South Fork Edisto River Bridge Replacement

Preliminary Jurisdictional Determination

Aiken County, South Carolina

Date:

February 12, 2021

cale:

1 in = 250 ft

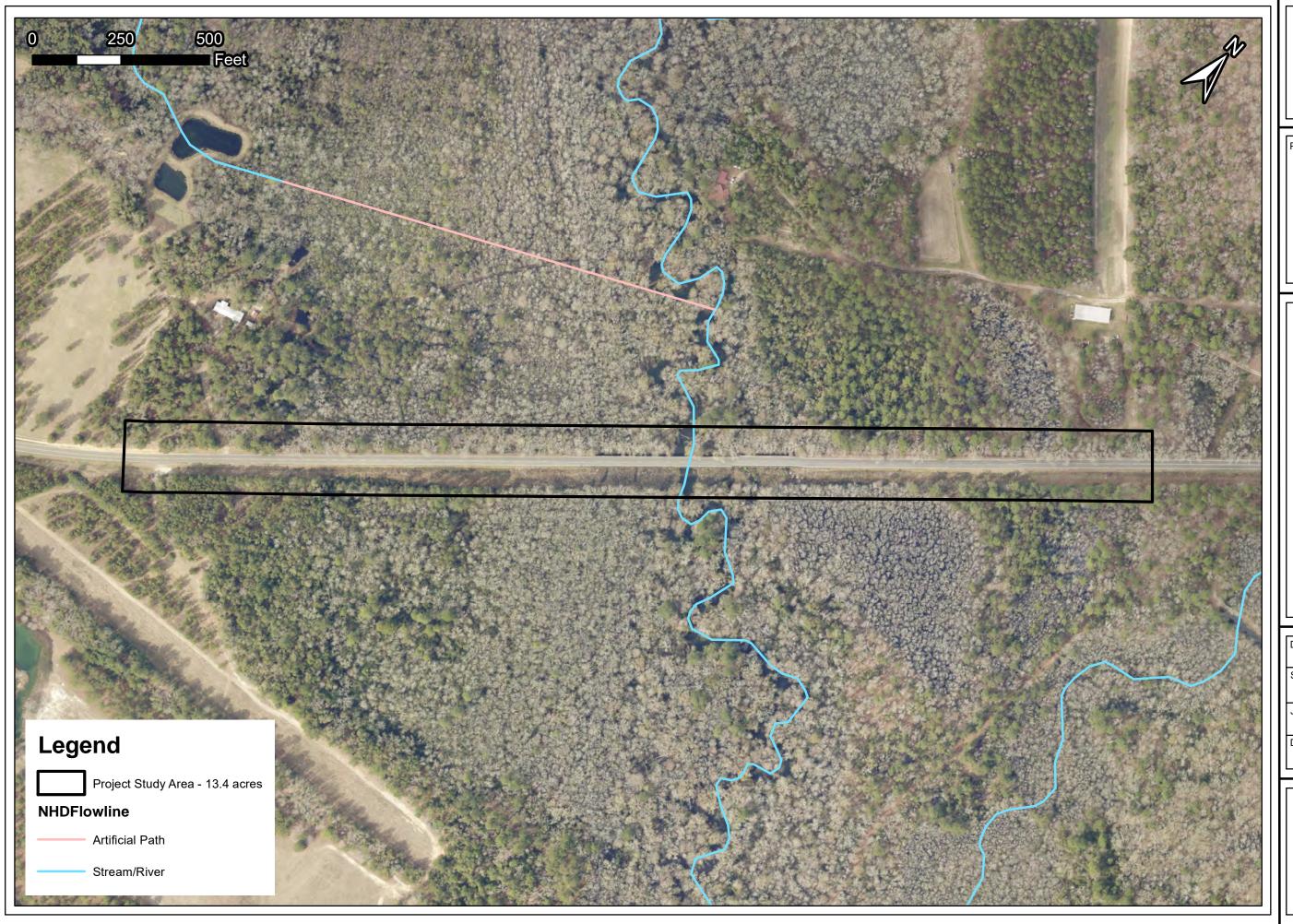
Job No.:

21-101 / P040306

Drawn By: WCB

Checked By:

National Wetlands Inventory Data







SC 4 over South Fork Edisto River Bridge Replacement

Preliminary Jurisdictional Determination

Aiken County, South Carolina

Date:

February 12, 2021

ale:

1 in = 250 ft

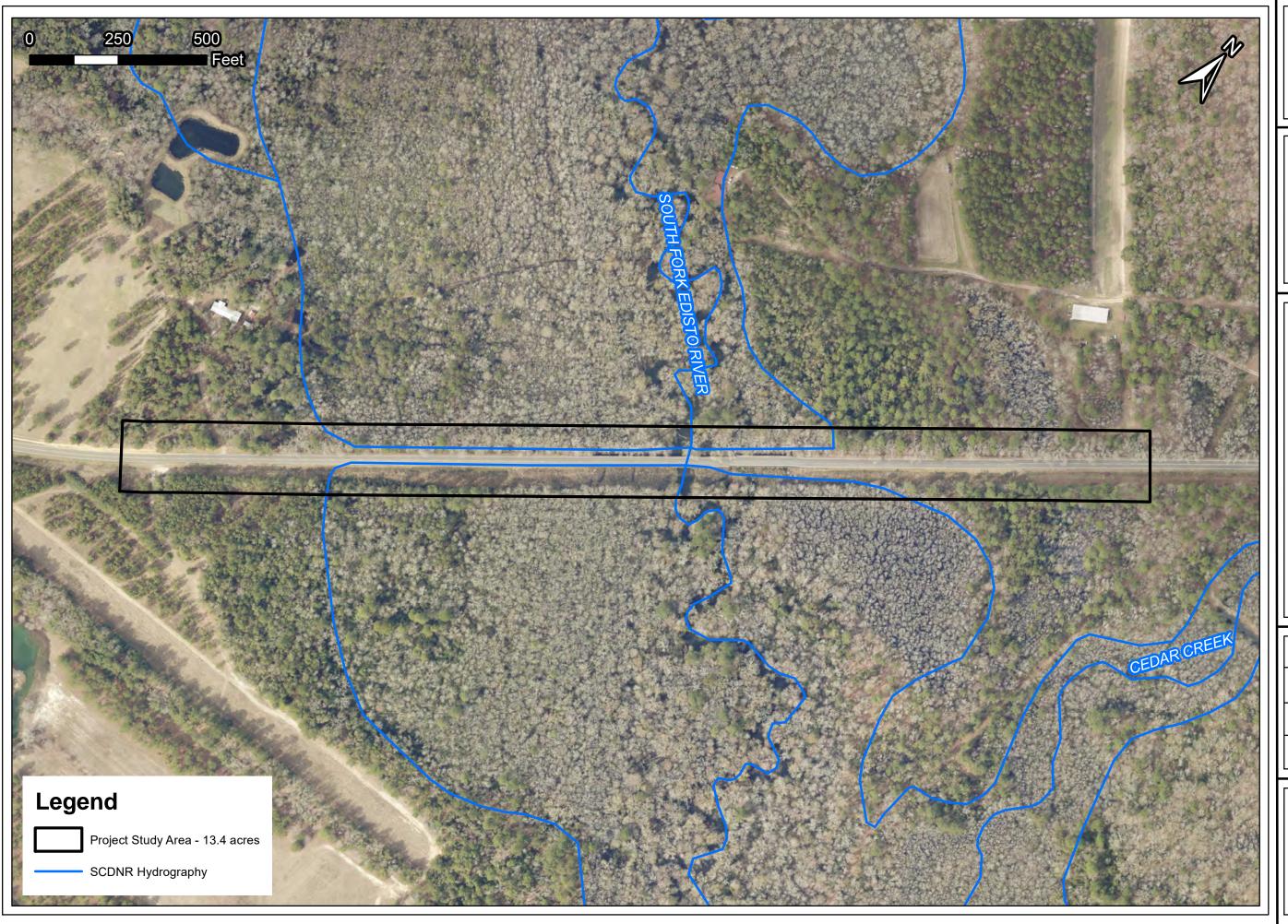
Job No.:

21-101 / P040306

Drawn By:

Checked By:

National Hydrography Data







SC 4 over South Fork Edisto River Bridge Replacement

Preliminary Jurisdictional Determination

Aiken County, South Carolina

Date:

February 12, 2021

cale:

1 in = 250 ft

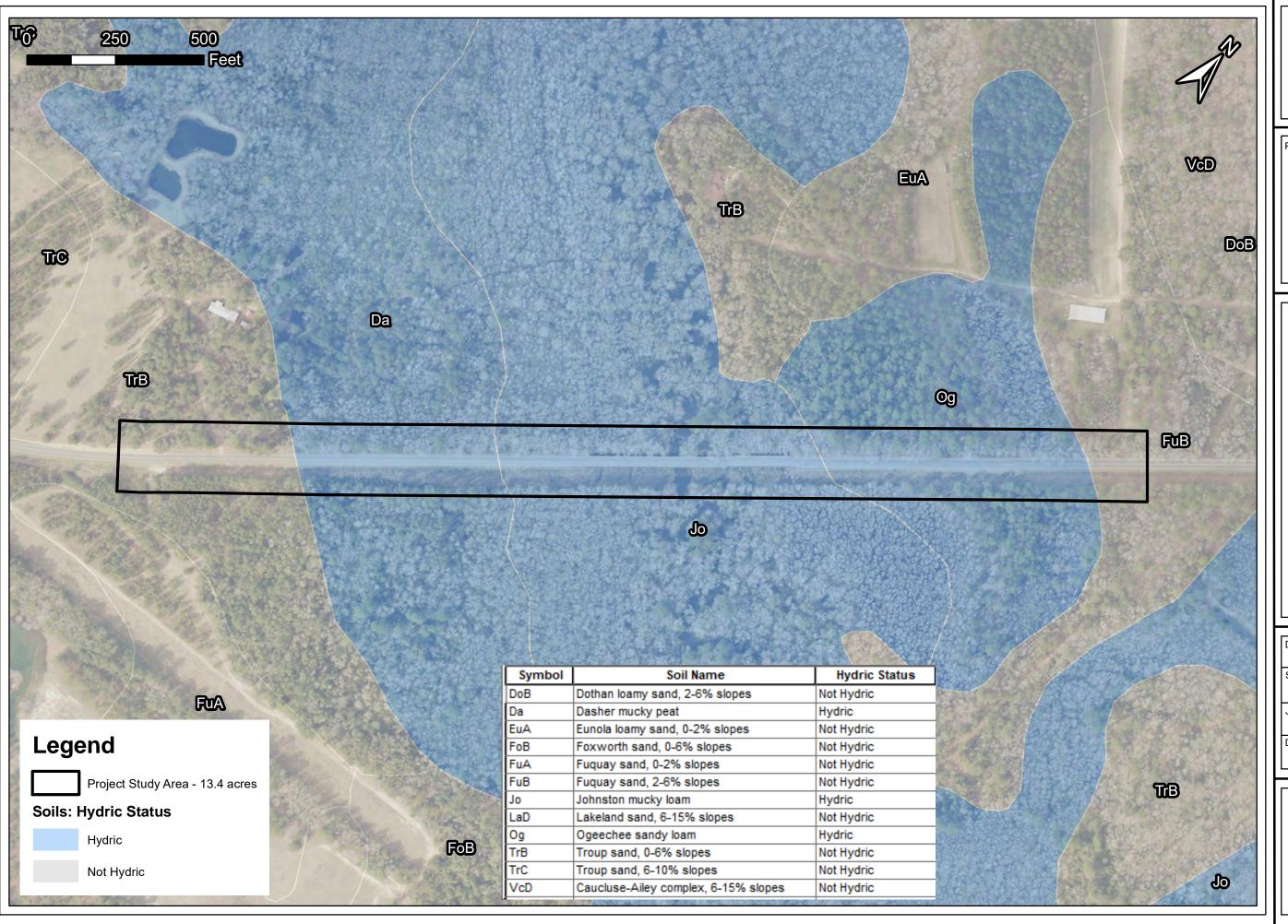
Job No.:

21-101 / P040306

Drawn By:

Checked By:

SCDNR Hydrography Data







SC 4 over South Fork Edisto River Bridge Replacement

Preliminary Jurisdictional Determination

Aiken County, South Carolina

Date

February 12, 2021

cale:

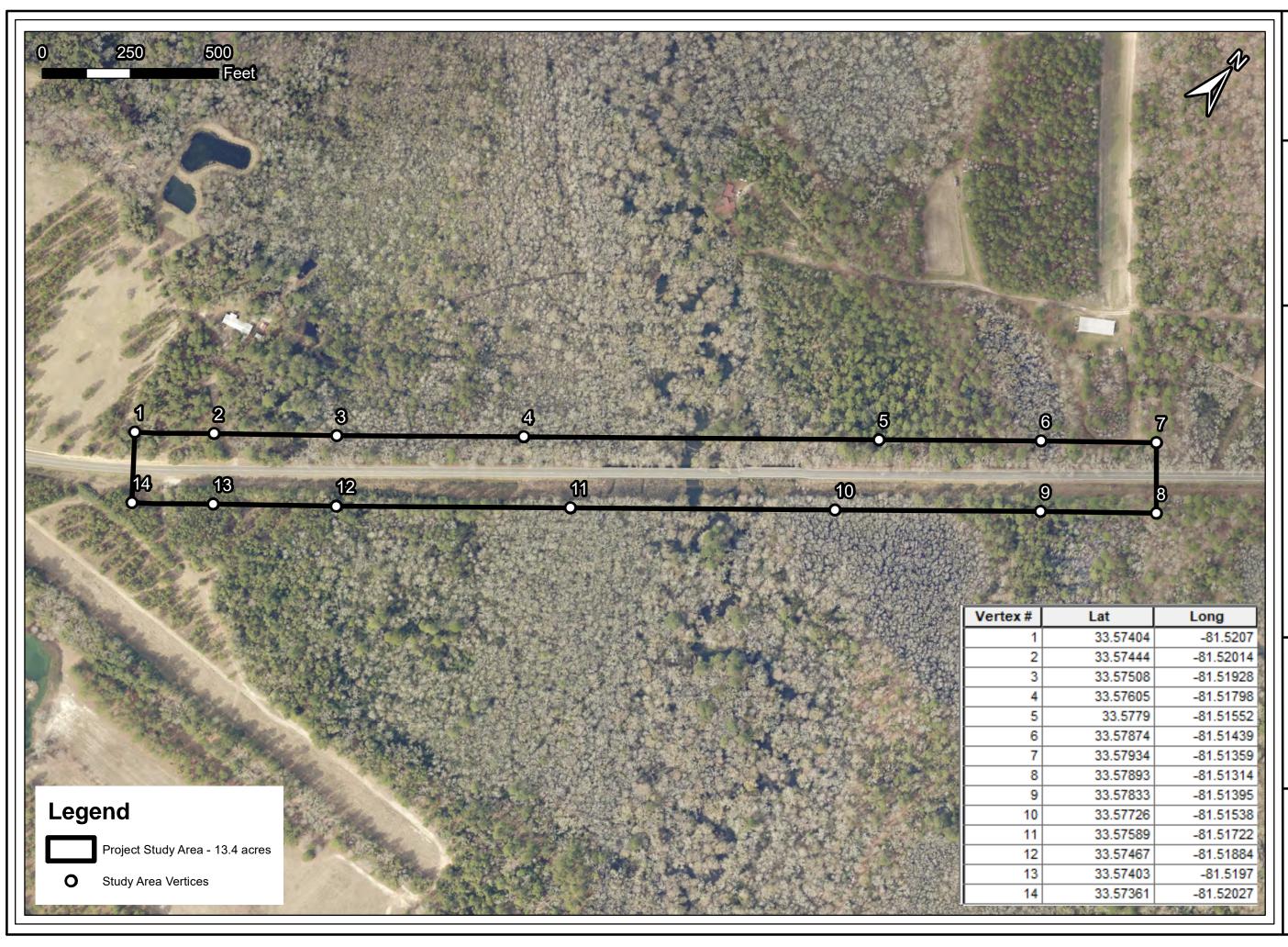
1 in = 250 ft

ob No.:

21-101 / P040306

Drawn By: WCB Checked By: TRC

NRCS Soils Data







SC 4 over South Fork Edisto River Bridge Replacement

Preliminary Jurisdictional Determination

Aiken County, South Carolina

Date:
February 12, 2021
Scale:
1 in = 250 ft

Job No.:
21-101 / P040306

Drawn By:

WCB

Study Area Vertices

Checked By:

TRC

Photo Log





Photo 1 33.574815, -81.519332

Photo 2 33.574834, -81.51904



Photo 3 33.575678, -81.518096



Photo 4 33.575755, -81.517741





Photo 5 33.576379, -81.516985

Photo 6 33.576724, -81.516609



Photo 7 33.577092, -81.516061



Photo 8 33.577524, -81.515849



Photo 9 33.577494, -81.515215



Photo 10 33.578054, -81.515141



Photo 11 33.578837, -81.514073



Photo 12 33.578813, -81.513457

Data Forms

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: SC 4 over South Fork Edisto	River	City/County: Oakwood	/Aiken	Sampling Date:	01/10/21
Applicant/Owner: SCDOT			State: SC	Sampling Point:	Up C
Investigator(s): Three Oaks Engineering		Section, Township, Range:	Oakwood, SC (2020),		
Landform (hillside, terrace, etc.): none	Lo	cal relief (concave, convex,		Slope (%):	1
Subregion (LRR or MLRA): LRR P, MLRA		•	81.513296		NAD83
Soil Map Unit Name: FuB - Fuguay sand, 0			NWI classifica		- 111 12 00
	·	2 V V			- \
Are climatic / hydrologic conditions on the sit				explain in Remark	•
Are Vegetation, Soil, or Hydro	· 		ircumstances" present		. No
Are Vegetation, Soil, or Hydro	ologynaturally probl	ematic? (If needed, exp	plain any answers in Re	emarks.)	
SUMMARY OF FINDINGS – Attach	site map showing s	sampling point location	ons, transects, im	portant featu	res, etc.
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area			
Hydric Soil Present?	Yes No X	within a Wetland?	Yes	No X	
Wetland Hydrology Present?	Yes X No				
Remarks:	<u> </u>				
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two I	required)
Primary Indicators (minimum of one is requi		,	Surface Soil Crac		
Surface Water (A1)	True Aquatic Plants		X Sparsely Vegetat		ce (B8)
High Water Table (A2)	Hydrogen Sulfide Oc		Drainage Patterns		
Saturation (A3)		res on Living Roots (C3)	Moss Trim Lines		
Water Marks (B1)	Presence of Reduce		Dry-Season Water		
Sediment Deposits (B2) Drift Deposits (B3)	Thin Muck Surface (on in Tilled Soils (C6)	Crayfish Burrows Saturation Visible		v (C0)
Algal Mat or Crust (B4)	Other (Explain in Re		Stunted or Stress		/ (C9)
Iron Deposits (B5)	Other (Explain in Ne	manaj	Geomorphic Posi	. ,	
Inundation Visible on Aerial Imagery (B	7)		Shallow Aquitard		
Water-Stained Leaves (B9)	.,		Microtopographic		
Aquatic Fauna (B13)			X FAC-Neutral Test		
Field Observations:				· ,	
Surface Water Present? Yes	No X Depth (inch	es):			
Water Table Present? Yes	No X Depth (inch				
Saturation Present? Yes	No X Depth (inch		Hydrology Present?	Yes X	No
(includes capillary fringe)					
Describe Recorded Data (stream gauge, m	onitoring well, aerial photos	s, previous inspections), if a	vailable:		
Remarks:					

	Absolute	Dominant	Indicator	Sampling Point: Up C
ree Stratum (Plot size:30 ft)	% Cover	Species?	Status	Dominance Test worksheet:
1. Pinus taeda	35	Yes	FAC	Number of Dominant Species
2. Liquidambar styraciflua	10	Yes	FAC	That Are OBL, FACW, or FAC:5 (A)
3	_			Total Number of Dominant
4				Species Across All Strata: 7 (B)
5				Percent of Dominant Species
3.				That Are OBL, FACW, or FAC: 71.4% (A/B
	45	=Total Cover		Prevalence Index worksheet:
50% of total cover:	23 20%	of total cover:	9	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 30 ft)				OBL species 0 x 1 = 0
Quercus nigra	20	Yes	FAC	FACW species 5 x 2 = 10
2. Diospyros virginiana	15	Yes	FAC	FAC species 80 x 3 = 240
3.				FACU species 30 x 4 = 120
1				UPL species 0 x 5 = 0
5				Column Totals: 115 (A) 370 (E
5				Prevalence Index = B/A = 3.22
	35	=Total Cover		Hydrophytic Vegetation Indicators:
50% of total cover:	18 20%	of total cover:	7	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 30 ft)				X 2 - Dominance Test is >50%
1. Ilex opaca	15	Yes	FACU	3 - Prevalence Index is ≤3.0¹
2. Persea palustris	5	Yes	FACW	4 - Morphological Adaptations ¹ (Provide supportir
3.				data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation ¹ (Explain)
5.				1
				I 'Indicators of hydric soil and wetland hydrology must
3.				¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic.
6.	20	=Total Cover		'Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. Definitions of Five Vegetation Strata:
6. 50% of total cover:		=Total Cover of total cover:	4	present, unless disturbed or problematic. Definitions of Five Vegetation Strata:
50% of total cover:			4	present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
50% of total cover: Herb Stratum (Plot size:30 ft)			4	present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines,
50% of total cover: Herb Stratum (Plot size:30 ft) 1.			4	present, unless disturbed or problematic. Definitions of 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).
50% of total cover: <u>Herb Stratum</u> (Plot size:30 ft) I2.			4	present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
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50% of total cover:		of total cover:	FACU	present, unless disturbed or problematic. Definitions of 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 – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody Plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody Vine – All woody vines, regardless of height.

SOIL Sampling Point: Up C

	cription: (Describe t	to the de				tor or c	onfirm the abse	nce of indi	cators.)	
Depth (inches)	Matrix	%		x Featu		Loc ²	Toyturo		Dow	a a rika
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type ¹		Texture		Ken	narks
0-4	7.5yr 2.5/3	60	7.5yr 4/3	20		<u>M</u>	Sandy			
4-14	7.5yr 6/6	90	7.5yr 6/8	10		M	Sandy			
	<u> </u>									
										_
¹Type: C=C	oncentration, D=Depl	etion, RM	=Reduced Matrix, N	/IS=Mas	sked San	d Grains.	² Loc	ation: PL=F	Pore Lining, N	л=Matrix.
Hydric Soil	Indicators:							Indicators	for Problema	atic Hydric Soils³:
Histosol			Polyvalue Be		-				uck (A10) (M	-
	pipedon (A2)		Thin Dark Su						Prairie Redox	(A16)
	istic (A3)		Loamy Muck			ILRA 13	6)		A 147, 148)	
	en Sulfide (A4)		Loamy Gleye						nt Floodplain	Soils (F19)
	d Layers (A5)		Depleted Ma						A 136, 147)	
	uck (A10) (LRR N)		Redox Dark						rent Material	
	d Below Dark Surface	e (A11)	Depleted Da						ide MLRA 12	·
	ark Surface (A12)		Redox Depre		-) // DD /	.I		nallow Dark S	` '
	Mucky Mineral (S1) Gleyed Matrix (S4)		Iron-Mangan		sses (F12	2) (LKK I	ν,	Other (i	Explain in Re	marks)
	Redox (S5)		Umbric Surfa	•	2) (MI DA	122 12	2)	3Indicators	of hydrophytic	vegetation and
	d Matrix (S6)		Piedmont Flo							ust be present,
	urface (S7)		Red Parent I		-				disturbed or p	•
	Layer (if observed):			viatoriai	(1 2 1) (111		, 147, 140,	unicoo (ulotarbea or p	orobiomatio.
Type:	Layer (ii observea).									
Depth (i	nches):						Hydric Soil	Present?	Yes	No X
Remarks:							<u> </u>			
0-4 7.5yr 6/6	6 20%									
,										
ı										
1										

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: SC 4 over South Fork Edisto I	River	City/County: Oakwood/	/Aiken	Sampling Date: 01/10/21		
Applicant/Owner: SCDOT	State: SC Sampling Point: Wet C					
Investigator(s): Three Oaks Engineering		Section, Township, Range:	Oakwood, SC (2020)	 , 24k		
Landform (hillside, terrace, etc.): none	Lo	cal relief (concave, convex,	none): none	Slope (%): 1		
Subregion (LRR or MLRA): LRR P, MLRA 1		·	, 81.513766	Datum: NAD 83		
Soil Map Unit Name: Og - Ogeechee sandy				ation: PFO4B		
Are climatic / hydrologic conditions on the sit				explain in Remarks.)		
Are Vegetation, Soil, or Hydro			ircumstances" present			
Are Vegetation, Soil, or Hydro	ologynaturally probl	ematic? (If needed, exp	olain any answers in R	emarks.)		
SUMMARY OF FINDINGS – Attach	site map showing s	sampling point location	ons, transects, in	nportant features, etc.		
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area				
Hydric Soil Present?	Yes X No	within a Wetland?	Yes X	No		
Wetland Hydrology Present?	Yes X No					
Remarks:						
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two required)		
Primary Indicators (minimum of one is requi	red; check all that apply)		Surface Soil Cracks (B6)			
X Surface Water (A1)	True Aquatic Plants		Sparsely Vegetated Concave Surface (B8)			
X High Water Table (A2)	Hydrogen Sulfide Oc		Drainage Pattern			
X Saturation (A3)		res on Living Roots (C3)	Moss Trim Lines			
—Water Marks (B1)	Presence of Reduce		Dry-Season Wate			
Sediment Deposits (B2)		on in Tilled Soils (C6)	Crayfish Burrows			
Drift Deposits (B3)	Thin Muck Surface (e on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Other (Explain in Re	marks)	Stunted or Stress			
Iron Deposits (B5)	7)		Geomorphic Pos			
Inundation Visible on Aerial Imagery (B	(1)		Shallow Aquitard			
X Water-Stained Leaves (B9) Aquatic Fauna (B13)			Microtopographic X FAC-Neutral Tes	, ,		
			X FAC-Neutral Tes	L (D3)		
Field Observations:	No. Double (in als					
Surface Water Present? Yes X	No Depth (inch					
Water Table Present? Yes X Saturation Present? Yes X	No Depth (inch		Uvdvology Drocont?	Vac V Na		
Saturation Present? Yes X (includes capillary fringe)	No Depth (inch	es): 0 Wetland I	Hydrology Present?	Yes <u>X</u> No		
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos	nrevious inspections) if av	vailable:			
Bessing Recorded Bata (Stream gauge, me	ormoring won, acriai priotos	s, providus inspections), ii av	valiable.			
Remarks:						

- 0 (D	Absolute	Dominant	Indicator		
Tree Stratum (Plot size: 30 ft)	% Cover	Species?	Status	Dominance Test worksheet:	
1. Pinus taeda	40	Yes	FAC	Number of Dominant Species	6 (4)
2. <u>Liquidambar styraciflua</u> 3.	10	Yes	FAC		6 (A)
3. 4.	· ——			Total Number of Dominant Species Across All Strata:	6 (B)
5.					(B)
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100	0.0% (A/B)
·	50	=Total Cover		Prevalence Index worksheet:	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>
50% of total cover:		of total cover:	10		ply by:
Sapling Stratum (Plot size: 30 ft)				OBL species 0 x 1 =	0
1. Quercus laurifolia	25	Yes	FACW	FACW species 33 x 2 =	66
2. Acer rubrum	25	Yes	FAC	FAC species 83 x 3 =	249
3.				FACU species 0 x 4 =	0
4.				UPL species 0 x 5 =	0
5.				Column Totals: 116 (A)	315 (B)
3.				Prevalence Index = B/A =	2.72
	50	=Total Cover		Hydrophytic Vegetation Indicators:	
50% of total cover:	25 20%	of total cover:	10	1 - Rapid Test for Hydrophytic Veget	tation
Shrub Stratum (Plot size: 30 ft)				X 2 - Dominance Test is >50%	
1. Morella cerifera	8	Yes	FAC	X 3 - Prevalence Index is ≤3.0 ¹	
2. Persea palustris 3.	8	Yes	FACW	4 - Morphological Adaptations ¹ (Prov data in Remarks or on a separate	
4.				Problematic Hydrophytic Vegetation	¹ (Explain)
5.				1.	()
				¹ Indicators of hydric soil and watland hyd	tralagy must b
-				¹ Indicators of hydric soil and wetland hydric present, unless disturbed or problematic.	
	16	=Total Cover		¹ Indicators of hydric soil and wetland hydric present, unless disturbed or problematic. Definitions of Five Vegetation Strata:	
-		=Total Cover of total cover:	4	present, unless disturbed or problematic.	
50% of total cover: Herb Stratum (Plot size:30 ft)			4	present, unless disturbed or problematic. Definitions of Five Vegetation Strata:	vines,
50% of total cover: Herb Stratum (Plot size:30 ft)			4	present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody v approximately 20 ft (6 m) or more in heig (7.6 cm) or larger in diameter at breast h	rines, ght and 3 in. leight (DBH).
50% of total cover: Herb Stratum (Plot size:30 ft) 1 2 3.			4	present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody v approximately 20 ft (6 m) or more in height	vines, ght and 3 in. neight (DBH).
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50% of total cover:	8 20%	of total cover:		present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vapproximately 20 ft (6 m) or more in heig (7.6 cm) or larger in diameter at breast h Sapling – Woody plants, excluding wood approximately 20 ft (6 m) or more in heig than 3 in. (7.6 cm) DBH. Shrub - Woody Plants, excluding woody approximately 3 to 20 ft (1 to 6 m) in heighter herbaceous vines, regardless of size, and plants, except woody vines, less than ap 3 ft (1 m) in height.	vines, ght and 3 in. leight (DBH). dy vines, ght and less vines, ght. ats, including dd woody proximately

SOIL Sampling Point: Wet C

	ription: (Describe t	o the de				ator or co	onfirm the absence	e of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Featur	Type ¹	Loc ²	Texture	Remarks
0-8	7.5yr 7/1	90	7.5yr 5/8	10	C	M	Sandy	Prominent redox concentrations
8-14	7.5yr 7/1	75	7.5yr 5/8	25			Loamy/Clayey	
	7.5yi 771		7.5yi 5/6				Loamyrolaycy	
						<u> </u>		
¹Type: C=Co	oncentration, D=Depl	etion, RM	 I=Reduced Matrix, N	MS=Mas	ked San	d Grains.	²Locatio	on: PL=Pore Lining, M=Matrix.
Hydric Soil I		,	,			_		icators for Problematic Hydric Soils ³ :
Histosol (Polyvalue Be	elow Su	rface (S8) (MLRA		2 cm Muck (A10) (MLRA 147)
	ipedon (A2)		Thin Dark Su		-			Coast Prairie Redox (A16)
Black His	. , ,		Loamy Muck					(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye	-			,	Piedmont Floodplain Soils (F19)
	Layers (A5)		X Depleted Ma					(MLRA 136, 147)
	ck (A10) (LRR N)		Redox Dark					Red Parent Material (F21)
	Below Dark Surface	(A11)	Depleted Da		` '			(outside MLRA 127, 147, 148)
	rk Surface (A12)	, ,	Redox Depre					Very Shallow Dark Surface (F22)
	ucky Mineral (S1)		Iron-Mangar			2) (LRR I		Other (Explain in Remarks)
	leyed Matrix (S4)		MLRA 136		•	, ,		, ,
X Sandy Re			Umbric Surfa	ace (F13	B) (MLRA	122, 13	3Inc	dicators of hydrophytic vegetation and
	Matrix (S6)		Piedmont Flo					wetland hydrology must be present,
Dark Surf			Red Parent I					unless disturbed or problematic.
	.ayer (if observed):						,	<u> </u>
Type:								
Depth (in	ches):						Hydric Soil Pres	sent? Yes X No
Remarks:								

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: SC 4 over South Fork Edisto I	River	City/County: Oakwood	d/Aiken	Sampling Date: 01/10/21		
Applicant/Owner: SCDOT			State: SC	Sampling Point: Up D		
Investigator(s): Three Oaks Engineering		Section, Township, Range	e: Oakwood, SC (2020			
Landform (hillside, terrace, etc.): none	Lo	cal relief (concave, convex	•	Slope (%): 1		
Subregion (LRR or MLRA): LRR P, MLRA 1		•	-81.514945	Datum: NAD83		
,	Lat. 00.070201	Long.				
Soil Map Unit Name: Og - Ochlockonee		•		cation: PFO1C		
Are climatic / hydrologic conditions on the sit	, , , , , , , , , , , , , , , , , , ,			, explain in Remarks.)		
Are Vegetation, Soil, or Hydro			Circumstances" presen	t? Yes X No		
Are Vegetation, Soil, or Hydro	ologynaturally probl	ematic? (If needed, ex	xplain any answers in F	Remarks.)		
SUMMARY OF FINDINGS – Attach	site map showing s	sampling point locat	ions, transects, ir	nportant features, etc.		
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area				
Hydric Soil Present?	Yes No X	within a Wetland?	Yes	No X		
Wetland Hydrology Present?	Yes No X			<u> </u>		
Remarks:			_			
rtemante.						
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicator	s (minimum of two required)		
Primary Indicators (minimum of one is requi	red: check all that apply)		Surface Soil Cra			
Surface Water (A1)	True Aquatic Plants	(B14)	Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)	Hydrogen Sulfide Od		Drainage Patteri			
Saturation (A3)		res on Living Roots (C3)	Moss Trim Lines			
Water Marks (B1)	Presence of Reduce	= : :	Dry-Season Wa			
Sediment Deposits (B2)	Recent Iron Reduction	on in Tilled Soils (C6)	Crayfish Burrow			
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation Visib	le on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Other (Explain in Re	marks)	Stunted or Stres	ssed Plants (D1)		
Iron Deposits (B5)			Geomorphic Pos	sition (D2)		
Inundation Visible on Aerial Imagery (B	7)		Shallow Aquitard (D3)			
Water-Stained Leaves (B9)			Microtopographi	ic Relief (D4)		
Aquatic Fauna (B13)			X FAC-Neutral Tes	st (D5)		
Field Observations:						
Surface Water Present? Yes	No X Depth (inch	es):				
Water Table Present? Yes	No X Depth (inch					
Saturation Present? Yes	No X Depth (inch		Hydrology Present?	Yes No X		
(includes capillary fringe)				<u> </u>		
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos	s, previous inspections), if a	available:			
Remarks:						

VEGETATION (Five Strata) - Use scier				Sampling Point: Up D
Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Pinus taeda	30	Yes	FAC	Number of Dominant Species
2. Liriodendron tulipifera	15	Yes	FACU	That Are OBL, FACW, or FAC:5 (A)
3. Quercus nigra	10	No	FAC	Total Number of Dominant
4				Species Across All Strata: 7 (B)
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 71.4% (A/B)
·	55	=Total Cover		Prevalence Index worksheet:
50% of total cover:		of total cover:	11	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 30 ft)		or total cover.		OBL species 0 x 1 = 0
1. Quercus nigra	30	Yes	FAC	FACW species 25 x 2 = 50
Quercus laurifolia	15	Yes	FACW	FAC species 78 x 3 = 234
3.				FACU species 30 x 4 = 120
4.	-			UPL species 0 x 5 = 0
5.	-			Column Totals: 133 (A) 404 (B)
6.				Prevalence Index = B/A = 3.04
	45	=Total Cover		Hydrophytic Vegetation Indicators:
50% of total cover:		of total cover:	9	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 30 ft)				X 2 - Dominance Test is >50%
1. Quercus laurifolia	10	Yes	FACW	3 - Prevalence Index is ≤3.0¹
2.				4 - Morphological Adaptations ¹ (Provide supporting
3.				data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation ¹ (Explain)
5.				1 · · · · · · · · · · · · · · · · · · ·
6.				¹ Indicators of hydric soil and wetland hydrology must b present, unless disturbed or problematic.
·	10	=Total Cover		Definitions of Five Vegetation Strata:
50% of total cover:		of total cover:	2	
Herb Stratum (Plot size: 30 ft)		or total dover.		Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
1.				(7.6 cm) or larger in diameter at breast height (DBH).
2.	_			Conline Woody plants evaluating woody vines
3.	_			Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
4.				than 3 in. (7.6 cm) DBH.
5.	_			Shrub - Woody Plants, excluding woody vines,
6.	_			approximately 3 to 20 ft (1 to 6 m) in height.
7.	_			
8				Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, <u>and</u> woody
9.				plants, except woody vines, less than approximately
10.	_			3 ft (1 m) in height.
11.				Woody Vine – All woody vines, regardless of height.
···		=Total Cover		
50% of total cover:		of total cover:		
Woody Vine Stratum (Plot size: 30 ft)		0. 1010. 0070		
1. Smilax smallii	15	Yes	FACU	
Gelsemium sempervirens	8	Yes	FAC	
3.		100	. 7.0	
4.				
5.				
	23	=Total Cover		Hydrophytic
50% of total cover:		of total cover:	5	Vegetation Present? Yes X No
Remarks: (Include photo numbers here or on a se		5, 15tal 50Vol.		100 <u>//</u> 100

SOIL Sampling Point: Up D

	ription: (Describe t	o the dep				tor or co	onfirm the abso	ence of indi	cators.)				
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Featu	res Type ¹	Loc ²	Texture		Ren	narks			
0-8	10yr 4/2	100	Color (moist)		Туре	LOC	Sandy			coating			
								Sandy					
8-12	10yr 5/3	100					Sandy						
										_			
										_			
	ncentration, D=Depl	etion, RM	=Reduced Matrix, N	/IS=Mas	sked Sand	d Grains.	² Lo		Pore Lining, N				
Hydric Soil II			Daharahaa Da	0	-f (00)	\	447 440)			atic Hydric Soils ³ :			
Histosol (` ,		Polyvalue Be		, ,		•		uck (A10) (M Proirie Dadov				
	ipedon (A2)		Thin Dark Su						rairie Redox	(A10)			
Black His	n Sulfide (A4)		Loamy Muck			ILKA 13	o)		A 147, 148) nt Floodplair	Soils (E10)			
	Layers (A5)		Depleted Ma						A 136, 147)	1 30115 (1-19)			
	ck (A10) (LRR N)		Redox Dark						rent Material	(F21)			
	Below Dark Surface	(A11)	Depleted Da							27, 147, 148)			
	rk Surface (A12)	(,,,,,	Redox Depre							Surface (F22)			
	ucky Mineral (S1)		Iron-Mangan			2) (LRR I	٧.		Explain in Re				
	leyed Matrix (S4)		MLRA 136		`	, ,	•	`		,			
	edox (S5)		Umbric Surfa	•	3) (MLRA	122, 13	6)	³ Indicators of	of hydrophytic	c vegetation and			
	Matrix (S6)		Piedmont Flo							nust be present,			
Dark Surf	face (S7)		Red Parent I	Material	(F21) (M	LRA 127	, 147, 148)	unless	disturbed or p	oroblematic.			
Restrictive L	ayer (if observed):												
Type:													
Depth (in	ches):						Hydric Soil	Present?	Yes	No <u>X</u>			
Remarks:													

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: SC 4 over South Fork Edisto I	River	City/County: Oakwood	d/Aiken	Sampling Date: 01/10/21
Applicant/Owner: SCDOT			State: SC	Sampling Point: Wet D
Investigator(s): Three Oaks Engineering		Section, Township, Range	e: Oakwood, SC (2020	
Landform (hillside, terrace, etc.): none	Lo	cal relief (concave, convex	, none): none	Slope (%): 0
Subregion (LRR or MLRA): LRR P, MLRA 1		Long:		Datum: NAD83
Soil Map Unit Name: Og - Ogeechee sandy	-			ation: PFO1Fh
		2 V V		
Are climatic / hydrologic conditions on the sit				, explain in Remarks.)
Are Vegetation, Soil, or Hydro			Circumstances" presen	
Are Vegetation, Soil, or Hydro	ologynaturally probl	ematic? (If needed, ex	kplain any answers in F	Remarks.)
SUMMARY OF FINDINGS – Attach	site map showing s	sampling point locati	ions, transects, ir	mportant features, etc.
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area		
Hydric Soil Present?	Yes X No	within a Wetland?	Yes X	No
Wetland Hydrology Present?	Yes X No			<u> </u>
Remarks:				
HYDROLOGY				
Wetland Hydrology Indicators:				s (minimum of two required)
Primary Indicators (minimum of one is requi			Surface Soil Cra	
X Surface Water (A1)	True Aquatic Plants			ated Concave Surface (B8)
X High Water Table (A2)	Hydrogen Sulfide Oc		Drainage Patter	
Saturation (A3)		res on Living Roots (C3)	Moss Trim Lines	
Water Marks (B1)	X Presence of Reduce		Dry-Season Wa	
Sediment Deposits (B2)		on in Tilled Soils (C6)	Crayfish Burrow	
Drift Deposits (B3)	Thin Muck Surface (le on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Re	marks)	Stunted or Stres	
Iron Deposits (B5)	- \		Geomorphic Pos	
Inundation Visible on Aerial Imagery (B	7)		Shallow Aquitare	
X Water-Stained Leaves (B9)			Microtopographi	
Aquatic Fauna (B13)			X FAC-Neutral Te	รเ (ปอ)
Field Observations:	5			
Surface Water Present? Yes X	No Depth (inch			
Water Table Present? Yes X	No Depth (inch		Hardwale and Bure a serie	V V N-
Saturation Present? Yes	No X Depth (inch	es): wetiand	Hydrology Present?	Yes <u>X</u> No
(includes capillary fringe) Describe Recorded Data (stream gauge, mo	onitoring well perial photos	nrevious inspections) if s	available:	
Describe Necorded Data (Stream gauge, Inc	officing well, aerial priotos	s, previous irispections), ii e	avallable.	
Remarks:				

VEGETATION (Five Strata) – Use scientific names of plants. Sampling Point: Wet D Absolute Dominant Indicator % Cover <u>Tree Stratum</u> (Plot size: 30 ft Species? Status **Dominance Test worksheet:** 1. Liquidambar styraciflua 35 Yes FAC **Number of Dominant Species** 10 FAC 2. Acer rubrum Yes That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** Species Across All Strata: 4. 8 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 75.0% (A/B) Prevalence Index worksheet: 45 =Total Cover 50% of total cover: 20% of total cover: Total % Cover of: Multiply by: 30 ft) **OBL** species Sapling Stratum (Plot size: x 1 = **FACW** species Acer rubrum 15 FAC x2 =Yes 85 2. Quercus nigra FAC FAC species x 3 = 255 55 3. **FACU** species x 4 = 220 0 0 4 UPL species x 5 = 160 5. Column Totals: (A) 515 (B) 6 Prevalence Index = B/A = 3.22 25 =Total Cover **Hydrophytic Vegetation Indicators:** 13 20% of total cover: 1 - Rapid Test for Hydrophytic Vegetation 50% of total cover: 30 ft) X 2 - Dominance Test is >50% Shrub Stratum (Plot size: 3 - Prevalence Index is ≤3.01 Ligustrum sinense 15 **FACU** 4 - Morphological Adaptations¹ (Provide supporting Rubus pensilvanicus data in Remarks or on a separate sheet) 3. 4. Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 6. 30 =Total Cover **Definitions of Five Vegetation Strata:** 20% of total cover: 50% of total cover: 15 Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. Herb Stratum (Plot size: 30 ft) (7.6 cm) or larger in diameter at breast height (DBH). 1. 2. Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. 5. Shrub - Woody Plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. 6. 7. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody 8. plants, except woody vines, less than approximately 9. 3 ft (1 m) in height. Woody Vine - All woody vines, regardless of height. =Total Cover 50% of total cover: 20% of total cover: Woody Vine Stratum (Plot size: 30 ft) Smilax smallii **FACU** Rubus hispidus Yes **FACW** 3. 4. 5. Hydrophytic 60 =Total Cover Vegetation 20% of total cover: Present? 50% of total cover: 30 12 Yes X No

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

SOIL Sampling Point: Wet D

	ription: (Describe t	o the de				ator or co	onfirm the absen	ce of indic	cators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Featu %	Type ¹	Loc ²	Texture		Remarks
0-8	7.5yr 3/2	95	10yr 3/6	5	RM	M	Sandy		remand
8-12	7.5yr 3/3	50	7.5yr 2.5/2	50		M	Sandy		
								_	
	ncentration, D=Depl	etion, RM	I=Reduced Matrix, N	/IS=Mas	sked San	d Grains.			Pore Lining, M=Matrix.
Hydric Soil II			5 5						for Problematic Hydric Soils ³ :
Histosol (Polyvalue Be		-				uck (A10) (MLRA 147)
	ipedon (A2)		Thin Dark Su						Prairie Redox (A16)
Black His	` '		Loamy Muck	•	. , .	ILRA 13	6)		A 147, 148)
	n Sulfide (A4)		Loamy Gleye				_		nt Floodplain Soils (F19)
	Layers (A5)		Depleted Ma						A 136, 147)
	ck (A10) (LRR N)		Redox Dark				_		rent Material (F21)
	Below Dark Surface	(A11)	Depleted Da						ide MLRA 127, 147, 148)
	rk Surface (A12)		Redox Depre				_		nallow Dark Surface (F22)
	ucky Mineral (S1)		Iron-Mangan		sses (F1	2) (LRR I	N,	Other (F	Explain in Remarks)
	eyed Matrix (S4)		MLRA 136	•			3		
	edox (S5)		Umbric Surfa						of hydrophytic vegetation and
	Matrix (S6)		Piedmont Flo						hydrology must be present,
Dark Surf	face (S7)		Red Parent I	Material	(F21) (M	LRA 127	, 147, 148)	unless	disturbed or problematic.
	ayer (if observed):								
Type:									
Depth (in	ches):						Hydric Soil Pr	esent?	Yes X No
Remarks:									

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: SC 4 over South Fork Edisto	River	City/County: Oakwood/	/Aiken	Sampling Date:	01/10/21
Applicant/Owner: SCDOT			State: SC	Sampling Point:	Wet E
Investigator(s): Three Oaks Engineering		Section, Township, Range:	Oakwood, SC (2020),		
Landform (hillside, terrace, etc.): floodplair	n Lo	ocal relief (concave, convex,	-	Slope (%):	0
Subregion (LRR or MLRA): LRR P, MLRA		•	81.515405		NAD83
Soil Map Unit Name: Jo - Johnston mucky			NWI classifica		
·		or? Vee V			- \
Are climatic / hydrologic conditions on the sit	,,			explain in Remark	
Are Vegetation, Soil, or Hydr			ircumstances" present		No
Are Vegetation, Soil, or Hydr	ologynaturally prob	ematic? (If needed, exp	olain any answers in Re	emarks.)	
SUMMARY OF FINDINGS – Attacl	n site map showing	sampling point location	ons, transects, im	portant featu	res, etc.
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area			
Hydric Soil Present?	Yes X No	within a Wetland?	Yes X	No	
Wetland Hydrology Present?	Yes X No				
Remarks:					
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two	equired)
Primary Indicators (minimum of one is requ	ired; check all that apply)		Surface Soil Crac	ks (B6)	
X Surface Water (A1)	True Aquatic Plants	(B14)	Sparsely Vegetate	ed Concave Surfa	ce (B8)
High Water Table (A2)	Hydrogen Sulfide O	dor (C1)	Drainage Patterns	s (B10)	
X Saturation (A3)	Oxidized Rhizosphe	res on Living Roots (C3)	Moss Trim Lines	(B16)	
Water Marks (B1)	Presence of Reduce		Dry-Season Wate		
Sediment Deposits (B2)		on in Tilled Soils (C6)	Crayfish Burrows		
Drift Deposits (B3)	Thin Muck Surface (Saturation Visible		/ (C9)
Algal Mat or Crust (B4)	Other (Explain in Re	marks)	Stunted or Stress	` '	
Iron Deposits (B5)	7\		Geomorphic Posi Shallow Aquitard	, ,	
Inundation Visible on Aerial Imagery (B X Water-Stained Leaves (B9)	(1)		Microtopographic	, ,	
X Aquatic Fauna (B13)			X FAC-Neutral Test		
Field Observations:			7 170-Neutral Test	. (65)	
Surface Water Present? Yes X	No Depth (inch	00): 3			
Water Table Present? Yes					
Saturation Present? Yes X	No X Depth (inch	es): 2 Wetland I	Hydrology Present?	Yes X	No
(includes capillary fringe)			,		
Describe Recorded Data (stream gauge, m	onitoring well, aerial photo	s, previous inspections), if av	/ailable:		
		. ,			
Remarks:					,

/EGETATION (Five Strata) – Use scie		•	L. P. 1	Sampling Point:	Wet E
<u>Tree Stratum</u> (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
Nyssa aquatica 2.	80	Yes	OBL	Number of Dominant Species That Are OBL, FACW, or FAC:	5 (A)
3. 4.				Total Number of Dominant Species Across All Strata:	6 (B)
5.				Percent of Dominant Species	83.3% (A/B)
-	80	=Total Cover		Prevalence Index worksheet:	(1 =)
50% of total cover:		of total cover:	16		ultiply by:
Sapling Stratum (Plot size: 30 ft)				OBL species 90 x 1 =	90
1. Acer rubrum	10	Yes	FAC	FACW species 30 x 2 =	60
2. Nyssa aquatica	10	Yes	OBL	FAC species 50 x 3 =	150
3.				FACU species 5 x 4 =	20
4.				UPL species 0 x 5 =	0
5.				Column Totals: 175 (A)	320 (B)
3.	_			Prevalence Index = B/A =	1.83
	20	=Total Cover		Hydrophytic Vegetation Indicators:	
50% of total cover:	10 20%	of total cover:	4	1 - Rapid Test for Hydrophytic Ve	getation
Shrub Stratum (Plot size: 30 ft)				X 2 - Dominance Test is >50%	
				X 3 - Prevalence Index is ≤3.0 ¹	
2.				4 - Morphological Adaptations ¹ (Podata in Remarks or on a separa	
3. 4.				Problematic Hydrophytic Vegetation	,
+ 5.				1.	, , ,
6.				¹ Indicators of hydric soil and wetland he present, unless disturbed or problema	
	_	=Total Cover		Definitions of Five Vegetation Strate	
50% of total cover:		of total cover:		Tree – Woody plants, excluding wood	
Herb Stratum (Plot size: 30 ft)		o. total oo to		approximately 20 ft (6 m) or more in h	
Chasmanthium sessiliflorum	40	Yes	FAC	(7.6 cm) or larger in diameter at breas	
2. Arundinaria gigantea	30	Yes	FACW	Sapling – Woody plants, excluding we	oody vines
3				approximately 20 ft (6 m) or more in hithan 3 in. (7.6 cm) DBH.	
5.				Shrub - Woody Plants, excluding woo approximately 3 to 20 ft (1 to 6 m) in h	•
6. 7.					
3.				Herb – All herbaceous (non-woody) pl herbaceous vines, regardless of size,	
9.				plants, except woody vines, less than 3 ft (1 m) in height.	
10.				Woody Vine – All woody vines, regard	dless of height
11				Tioday Tills - All Woody Villes, regali	aloos of ficigrit.
F00/ - f4-4-1		=Total Cover	4.4		
50% of total cover:	35 20%	of total cover:	14		
Woody Vine Stratum (Plot size: 30 ft)	Vaa	EACH		
1. Smilax smallii	5	Yes	FACU		
2					
3.		-			
4					
5		-Total Crees		Hydrophytic	
F00/ - 54-4-1		=Total Cover	4	Vegetation	
50% of total cover:	3 20%	of total cover:	1	Present? Yes X No	

SOIL Sampling Point: Wet E

	ription: (Describe t	to the dep		ument t x Featui		itor or co	onfirm the abse	nce of indi	cators.)	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x reatur	Type ¹	Loc ²	Texture		Remark	1 0
			Color (moist)	/0	Туре	LUC				
0-16	7.5yr 3/2	100					Loamy/Claye	<u>y</u>	Organic matter	present
										_
¹Type: C=Co	oncentration, D=Depl	etion, RM	=Reduced Matrix, N	/IS=Mas	sked San	d Grains.	² Loc	ation: PL=F	Pore Lining, M=N	Matrix.
Hydric Soil I	ndicators:							Indicators	for Problematic	Hydric Soils ³ :
Histosol	(A1)		Polyvalue Be	elow Su	rface (S8	(MLRA	147, 148)	2 cm M	uck (A10) (MLR	A 147)
X Histic Ep	ipedon (A2)		Thin Dark Su	urface (S	39) (MLR	A 147, 1	48)	Coast F	Prairie Redox (A1	16)
Black His	stic (A3)		Loamy Muck	y Miner	al (F1) (N	ILRA 130	6)	(MLR	A 147, 148)	
	n Sulfide (A4)		Loamy Gleye	ed Matri	x (F2)		-	Piedmo	ont Floodplain So	ils (F19)
	Layers (A5)		Depleted Ma						A 136, 147)	
	ck (A10) (LRR N)		Redox Dark				-		rent Material (F2	•
	Below Dark Surface	e (A11)	Depleted Da						ide MLRA 127,	
	rk Surface (A12)		Redox Depre		-		_		nallow Dark Surfa	` '
	ucky Mineral (S1)		Iron-Mangan		sses (F12	Other (Explain in Rema	rks)		
	leyed Matrix (S4)		MLRA 136	•		400 40		3		
	edox (S5)		Umbric Surfa						of hydrophytic ve	
	Matrix (S6)		Piedmont Flo						d hydrology must	
_	face (S7)		Red Parent I	viateriai	(F21) (M	LRA 127	, 147, 148)	uniess	disturbed or prob	Diematic.
	ayer (if observed):									
Type:	abaa).						Usalaia Cail F)raaam#?	Vec V	No
Depth (in							Hydric Soil F	resent?	Yes X	No
Remarks:										

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: SC 4 over South Fork Edisto I	River	City/County: Oakwoo	od/Aiken	Sampling Date:	01/10/21
Applicant/Owner: SCDOT			State: SC	Sampling Point:	Up F
Investigator(s): Three Oaks Engineering		Section, Township, Range	e: Oakwood. SC (2020)		
Landform (hillside, terrace, etc.): none		cal relief (concave, convex		Slope (%):	0
`	•	·		Datum:	NAD83
Subregion (LRR or MLRA): LRR P, MLRA 1			-81.519037		INADOS
Soil Map Unit Name: <u>TrB - Troup sand, 0-6</u>	% slopes, Carolina & Georg		NWI classifica	•	
Are climatic / hydrologic conditions on the sit	e typical for this time of yea	ar? Yes X	No (If no,	, explain in Remark	s.)
Are Vegetation, Soil, or Hydro	ology significantly dis	sturbed? Are "Normal	Circumstances" present	t? Yes X	No
Are Vegetation, Soil, or Hydro	ologynaturally probl	ematic? (If needed, e	xplain any answers in R	Remarks.)	
SUMMARY OF FINDINGS – Attach	ı site map showing s	sampling point locat	ions, transects, in	nportant featu	res, etc.
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area			
Hydric Soil Present?	Yes No X	within a Wetland?	Yes	No X	
Wetland Hydrology Present?	Yes No X			· · · · · · · · · · · · · · · · · · ·	
Remarks:					
Nomana.					
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indicators	s (minimum of two	required)
Primary Indicators (minimum of one is requi	red check all that annly)		Surface Soil Cra	•	<u>equireu</u>
Surface Water (A1)	True Aquatic Plants	(B14)		ated Concave Surfa	ce (B8)
High Water Table (A2)	Hydrogen Sulfide Oc		Drainage Patterr		00 (B0)
Saturation (A3)		res on Living Roots (C3)	Moss Trim Lines		
Water Marks (B1)	Presence of Reduce		Dry-Season Wat		
Sediment Deposits (B2)		on in Tilled Soils (C6)	Crayfish Burrows		
Drift Deposits (B3)	Thin Muck Surface (le on Aerial Imagery	v (C9)
Algal Mat or Crust (B4)	Other (Explain in Re	•	Stunted or Stres		
Iron Deposits (B5)		,	Geomorphic Pos	` '	
Inundation Visible on Aerial Imagery (B	7)		Shallow Aquitard	d (D3)	
Water-Stained Leaves (B9)			Microtopographi	c Relief (D4)	
Aquatic Fauna (B13)			X FAC-Neutral Tes	st (D5)	
Field Observations:					
Surface Water Present? Yes	No X Depth (inch	es):			
Water Table Present? Yes	No X Depth (inch				
Saturation Present? Yes	No X Depth (inch	es): Wetland	d Hydrology Present?	Yes	No X
(includes capillary fringe)					
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos	s, previous inspections), if	available:		
Remarks:					

/EGETATION (Five Strata) – Use scien			India-+	Sampling Point: Up F	
Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. Pinus taeda	30	Yes	FAC		
2. Quercus phellos	5	No	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 4	(A)
<u> </u>		INO	TAC		(٨)
3 4.				Total Number of Dominant	(D)
-				· · · · · · · · · · · · · · · · · · ·	(B)
5.				Percent of Dominant Species	(A /D)
6					(A/B)
500/ 51 1 1		=Total Cover	_	Prevalence Index worksheet:	
	18 20%	of total cover:	7	Total % Cover of: Multiply by:	_
Sapling Stratum (Plot size: 30 ft)				OBL species 0 x 1 = 0	_
1. Quercus laurifolia	25	Yes	FACW	FACW species 30 x 2 = 60	_
2. Quercus phellos	10	Yes	FAC	FAC species 45 x 3 = 135	_
3				FACU species 0 x 4 = 0	_
4				UPL species 0 x 5 = 0	
5				Column Totals: 75 (A) 195	(B)
3				Prevalence Index = B/A = 2.60	
	35	=Total Cover		Hydrophytic Vegetation Indicators:	
50% of total cover:	18 20%	of total cover:	7	1 - Rapid Test for Hydrophytic Vegetation	
Shrub Stratum (Plot size: 30 ft)				X 2 - Dominance Test is >50%	
1. Persea palustris	5	Yes	FACW	3 - Prevalence Index is ≤3.0 ¹	
2.				4 - Morphological Adaptations ¹ (Provide supp	porting
3.				data in Remarks or on a separate sheet)	
4.	·			Problematic Hydrophytic Vegetation ¹ (Explain	n)
5.				¹ Indicators of hydric soil and wetland hydrology n	nuet h
6.				present, unless disturbed or problematic.	iust b
	5 :	=Total Cover		Definitions of Five Vegetation Strata:	
50% of total cover:		of total cover:	1	Tree – Woody plants, excluding woody vines,	
Herb Stratum (Plot size: 30 ft)				approximately 20 ft (6 m) or more in height and 3	3 in.
1.				(7.6 cm) or larger in diameter at breast height (DI	
2.				Continue Washington to available available	
3.				Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and le	
o				than 3 in. (7.6 cm) DBH.	,,,,
+. -					
5.				Shrub - Woody Plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.	
6.				approximately 5 to 25 ft (1 to 5 ff) in neight.	
7				Herb – All herbaceous (non-woody) plants, include	
8.				herbaceous vines, regardless of size, and woody	
9				plants, except woody vines, less than approximat 3 ft (1 m) in height.	tely
10					
11				Woody Vine – All woody vines, regardless of he	ight.
	:	=Total Cover			
50% of total cover:	20%	of total cover:			
Woody Vine Stratum (Plot size: 30 ft)					
1					
2.					
3.					
4.					
5.					
	 	=Total Cover		Hydrophytic	
50% of total cover:		of total cover:		Vegetation Present? Yes X No	
Remarks: (Include photo numbers here or on a set		or total cover.		Present? Yes X No No	

SOIL Sampling Point: Up F

	ription: (Describe t	to the de				tor or c	onfirm the abse	nce of indi	cators.)	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Featu %	res Type ¹	Loc ²	Texture		Pon	narks
0-2	7.5yr 2.5/1	60	7.5yr 6/2	40	Туре	M	Sandy		IXen	IIdiks
		100	7.0y1 0/2				Sandy			
2-12	10yr 7/4	100					Sandy			
¹Type: C=Co	ncentration, D=Depl	etion, RM	======================================	—— ∕IS=Mas	ked San	Grains.	² Loc	ation: PL=F	Pore Lining, N	M=Matrix.
Hydric Soil I		,	,							atic Hydric Soils ³ :
Histosol ((A1)		Polyvalue Be	elow Su	rface (S8	(MLRA	147, 148)	2 cm M	uck (A10) (M	ILRA 147)
Histic Ep	ipedon (A2)		Thin Dark S	urface (39) (MLR	A 147, 1	48)	Coast F	Prairie Redox	(A16)
Black His	` '		Loamy Muc	y Miner	al (F1) (N	ILRA 13	6)	(MLR	A 147, 148)	
Hydroger	n Sulfide (A4)		Loamy Gley	ed Matri	x (F2)			Piedmo	nt Floodplain	n Soils (F19)
	Layers (A5)		Depleted Ma					(MLR	A 136, 147)	
	ck (A10) (LRR N)		Redox Dark		` '				rent Material	
	Below Dark Surface	e (A11)	Depleted Da							27, 147, 148)
	rk Surface (A12)		Redox Depr		-					Surface (F22)
	ucky Mineral (S1)		Iron-Mangar		sses (F12	2) (LRR I	N, .	Other (I	Explain in Re	emarks)
	leyed Matrix (S4)		MLRA 130	•		400 40	•	3		
	edox (S5)		Umbric Surfa							c vegetation and
	Matrix (S6) face (S7)		Piedmont Fl						i nydrology m disturbed or p	nust be present,
	ayer (if observed):		Red Parent	viateriai	(1 Z 1) (IVI	LNA 121	, 147, 140)	uniess	uistui beu oi p	orobiematic.
Type:	ayer (ii observed).									
Depth (in	iches):						Hydric Soil F	Present?	Yes	No X
Remarks:										
rtomanto.										

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: SC 4 over South Fork Edisto I	River	City/County: Oakwood/	Aiken	Sampling Date:	01/10/21
Applicant/Owner: SCDOT			State: SC	Sampling Point:	Wet F
Investigator(s): Three Oaks Engineering		Section, Township, Range:	Oakwood, SC (2020)	24k	
Landform (hillside, terrace, etc.): floodplair	Lo	cal relief (concave, convex,		Slope (%):	0
Subregion (LRR or MLRA): LRR P, MLRA 1		,	31.518712	Datum:	NAD83
· .		Long			INADOS
Soil Map Unit Name: <u>Da - Dasher mucky pe</u>				ation: PFO1C	
Are climatic / hydrologic conditions on the sit	,,		No (If no,	explain in Remark	s.)
Are Vegetation, Soil, or Hydro	ologysignificantly dis	sturbed? Are "Normal C	ircumstances" present	? Yes X	No
Are Vegetation, Soil, or Hydro	ologynaturally probl	ematic? (If needed, exp	olain any answers in R	emarks.)	
SUMMARY OF FINDINGS – Attach	site map showing s	sampling point location	ons, transects, in	portant featu	es, etc.
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area			
Hydric Soil Present?	Yes X No	within a Wetland?	Yes X	No	
Wetland Hydrology Present?	Yes X No				
Remarks:					
Tomane.					
HYDROLOGY					
Wetland Hydrology Indicators:	-		Secondary Indicators	(minimum of two	equired)
Primary Indicators (minimum of one is requi	red; check all that apply)		Surface Soil Crac	cks (B6)	
X Surface Water (A1)	True Aquatic Plants	(B14)	Sparsely Vegetat	ted Concave Surfa	ce (B8)
High Water Table (A2)	Hydrogen Sulfide Oc	dor (C1)	Drainage Pattern	s (B10)	
Saturation (A3)	Oxidized Rhizospher	res on Living Roots (C3)	Moss Trim Lines	(B16)	
Water Marks (B1)	Presence of Reduce	d Iron (C4)	Dry-Season Wate	er 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	e on Aerial Imagery	/ (C9)
Algal Mat or Crust (B4)	Other (Explain in Re	marks)	Stunted or Stress	sed Plants (D1)	
Iron Deposits (B5)			X Geomorphic Pos	ition (D2)	
X Inundation Visible on Aerial Imagery (B	7)		Shallow Aquitard	(D3)	
X Water-Stained Leaves (B9)			Microtopographic	Relief (D4)	
Aquatic Fauna (B13)			X FAC-Neutral Tes	t (D5)	
Field Observations:					
Surface Water Present? Yes X	No Depth (inch	es): 2			
Water Table Present? Yes	No X Depth (inch				
Saturation Present? Yes X	No Depth (inch	es): 0 Wetland H	Hydrology Present?	Yes X	No
(includes capillary fringe)					
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos	s, previous inspections), if av	/ailable:		
Demorto					
Remarks:					

EGETATION (Five Strata) – Use scie		Absolute	Dominant	Indicator	Sampling Point:	Wet F
ree Stratum (Plot size: 30 ft)	_	% Cover	Species?	Status	Dominance Test worksheet:	
. Nyssa aquatica		40	Yes	OBL	Number of Dominant Species	_
Liquidambar styraciflua		20	Yes	FAC	That Are OBL, FACW, or FAC:	(A
Pinus taeda		10	No	FAC	Total Number of Dominant	
·					Species Across All Strata:	(E
·					Percent of Dominant Species	0= =0/ /*
·		70				87.5% (A
500/ aftertal account	-		=Total Cover	4.4	Prevalence Index worksheet:	10. 1 1
50% of total cover:	35	20%	of total cover:	14		ıltiply by:
apling Stratum (Plot size: 30 ft Nvssa aquatica		40	V	ODI	OBL species 50 x 1 =	50
Nyssa aquatica	— -	10	Yes	OBL	FACW species 40 x 2 =	80
					FAC species 45 x 3 =	135
					FACU species 10 x 4 = _	40
					UPL species 0 x 5 =	0
					Column Totals: 145 (A)	305
					Prevalence Index = B/A =	2.10
	_	10 :	=Total Cover		Hydrophytic Vegetation Indicators:	
50% of total cover:	5	20%	of total cover:	2	1 - Rapid Test for Hydrophytic Ve	getation
nrub Stratum (Plot size:30 ft)					X 2 - Dominance Test is >50%	
Lyonia lucida		30	Yes	FACW	X 3 - Prevalence Index is ≤3.0 ¹	
Persea palustris		10	Yes	FACW	4 - Morphological Adaptations ¹ (Pridata in Remarks or on a separa	
					Problematic Hydrophytic Vegetation	on ¹ (Explain)
					¹ Indicators of hydric soil and wetland h	ydrology mu
	— -	40			present, unless disturbed or problema	
50% 51.1.1	_		=Total Cover		Definitions of Five Vegetation Strate	
50% of total cover:)	20	20%	of total cover:	8	Tree – Woody plants, excluding wood approximately 20 ft (6 m) or more in he (7.6 cm) or larger in diameter at breas	eight and 3 ir
	 				Sapling – Woody plants, excluding we approximately 20 ft (6 m) or more in he than 3 in. (7.6 cm) DBH.	•
					Shrub - Woody Plants, excluding woo approximately 3 to 20 ft (1 to 6 m) in h	
	 				Herb – All herbaceous (non-woody) pl herbaceous vines, regardless of size, plants, except woody vines, less than 3 ft (1 m) in height.	and woody
). .					Woody Vine – All woody vines, regard	dless of heigh
			=Total Cover			
50% of total cover:	_		of total cover:			
/oody Vine Stratum (Plot size: 30 ft	1					
	_′	10	Voc	EACH		
		10	Yes	FACU		
Gelsemium sempervirens		10	Yes	FAC		
Smilax rotundifolia		5	Yes	FAC		
· .						
					Hydrophytic	
	_		=Total Cover		Vegetation	
50% of total cover:	13	20%	of total cover:	5	Present? Yes X No	

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

SOIL Sampling Point: Wet F

	ription: (Describe t	o the de				tor or c	onfirm the absen	ce of indicato	rs.)	
Depth (inches)	Matrix	0/		x Featur		Loc ²	Toytura		Domorko	
(inches) 0-5	Color (moist)	100	Color (moist)		Type ¹	Loc	Texture	_	Remarks	3
	7.5yr 3/1						Loamy/Clayey			
5-14	7.5yr 5/1	90	7.5yr 4/6	10		M	Sandy			
								_		_
								_		
										_
								_		
¹Type: C=Co	ncentration, D=Deple	etion, RM	=Reduced Matrix, N	/IS=Mas	ked Sand	Grains.	² Locat	ion: PL=Pore	Lining, M=M	atrix.
Hydric Soil I	ndicators:						In	dicators for F	Problematic I	Hydric Soils³:
Histosol (Polyvalue Be	elow Sur	face (S8)	(MLRA	147, 148)		(A10) (MLRA	
Histic Epi	ipedon (A2)		Thin Dark Su	-				Coast Prairi	e Redox (A16	6)
Black His			Loamy Muck	•	. , .	ILRA 13	6)	(MLRA 14		
	n Sulfide (A4)		Loamy Gleye		` '			Piedmont F	loodplain Soil	ls (F19)
X Stratified	• , ,		Depleted Ma					(MLRA 13	36, 147)	
	ck (A10) (LRR N)		Redox Dark				_		Material (F21	
	Below Dark Surface	(A11)	Depleted Da						MLRA 127, 1	-
	rk Surface (A12)		Redox Depre				_		w Dark Surfa	
	ucky Mineral (S1)		Iron-Mangan		sses (F12	2) (LRR I	N,	Other (Expl	ain in Remarl	(s)
	eyed Matrix (S4)		MLRA 136	•			3.			
	edox (S5)		Umbric Surfa		-			ndicators of hy		
	Matrix (S6)		Piedmont Flo		-			-	Irology must I	-
Dark Sur	. ,		Red Parent I	Material	(F21) (M	LRA 127	, 147, 148) I	unless distu	irbed or probl	ematic.
	ayer (if observed):									
Type:	-h \.						Undela Call De	40	V V	N
Depth (in	cnes):						Hydric Soil Pr	esent?	Yes X	No
Remarks:										