

March 6, 2018

Mr. Travis Hughes US Army Corps of Engineers Charleston District, Regulatory Branch 69A Hagood Avenue Charleston, South Carolina 29403-5107

> Re: Jurisdictional Determination Request Package S-45 Bridge Replacement over the Little Pee Dee River P031751, Dillon County

Dear Mr. Hughes:

Please find enclosed the South Carolina Department of Transportation (SCDOT) jurisdictional determination request package for the replacement of the S-45 (Lester Road) Bridge over the Little Pee Dee River. The package includes the US Army Corps of Engineers (USACE) Jurisdictional Determination Request Form, maps of the project study area with potential jurisdictional features identified, all associated data forms, a USACE data sheet of identified features and photos.

If further information or additional documentation is required, please feel free to contact me at 803-737-1332 or via email at <u>BeckhamJC@scdot.org</u>.

Sincerely,

Chin Bah

Chris Beckham Mitigation Manager

JCB:bag

Enclosures

File: Env/JCB

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

A. Site Details/Location:

Site Name: Bridge Replacements - Little Pee Dee River on S-45 (SP-0	84-EJEP-18) Date: 3/1/2018	
City/Township/Parish: Dillon	County: Dillon	
Latitude/Longitude: Start (south): 34.3295N, -79.3285W: Stop (north):	34.3364N, -79.3210W Acreage: 25.9	
Tax Map Sequence (TMS) #(s): SCDOT ROW	v	

Property Address(es): Lester Road (S-45), Dillon, Dillon County, SC

Please attach a survey/plat map and vicinity map identifying location and review area for the JD/delineation. 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.

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

Name: Chris Becknam, Mitigation Manager	
Company Name (<i>if applicable</i>): <u>SCDOT</u>	
Address: Post Office Box 191, 955 Park Street, Columbia, SC 29202-	0191
Phone: 803-737-1332	Email: BeckhamJC@scdot.org
Check one:	
l plan to purchase this property	
Other, please explain	

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

Consultant/Agent Name: Chris Daves, P.W.S.		
Company Name: <u>S&ME, Inc.</u>		
Address: 134 Suber Road, Columbia, SC 29210	Phone: 803-561-9024	
Email: <u>cdaves@smeinc.com</u>		

II. <u>REASON FOR REQUEST</u> (check all that apply)

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

*Authorities: Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Marine Protection, Research, and Sanctuaries Act, Section
103, 33 USC 1413; Regulatory Program of the U.S. Army Corps of Engineers; Final Rule for 33 CFR Parts 320-332.
Descent Downers, The left method that an another will be used in such attended and the determine whether the second second is another the second se

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

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

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

III. TYPE OF REQUEST:

Approved ¹ Jurisdictional Determination (AJD) Only
Preliminary ² Jurisdictional Determination (PJD) Only
Approved Jurisdictional Determination (AJD) with submittal of a Pre-Construction Notification or Department of the Army permit application
Preliminary Jurisdictional Determination (PJD) with submittal of a Pre-Construction Notification or Department of the Army permit application
Delineation of Wetlands and/or Other Aquatic Resources Only Conducted By Agent/Environmental Consultant with submittal of a Pre-Construction Notification or Department of the Army permit application (No jurisdictional determination requested)
I request that the Corps delineate the wetlands and/or other aquatic resources that may be present on my property with the attached Pre-Construction Notification or Department of the Army permit application
I request that the Corps delineate the wetlands and/or other aquatic resources that may be present on my property with an AJD or PJD
"No Permit Required" (NPR) Letter as I believe my proposed activity is not regulated ³
Unclear as to which jurisdictional determination I would like to request and require additional information to inform my decision

¹<u>Approved</u> – 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.

²<u>Preliminary</u> – 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.

³ "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.

IV. LEGAL RIGHT OF ENTRY

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

Post Office Box 191, 955 Park Street, Columbia, SC 29202-0191	Lester Road (S-45) /SCDOT ROW
Mailing Address	Property Address / TMS #(s)
BeckhamJC@scdot.org	803-737-1332
Email Address	Daytime Phone Number
	Chris Beckham, Mitigation Manager
*Signature: Printed Name and Date	

olghature.		
Charleston Office:	Columbia Office:	Conway Office:
US Army Corps of Engineers	US Army Corps of Engineers	US Army Corps of Engineers
Regulatory Division	Regulatory Office	Regulatory Office
69A Hagood Avenue	1835 Assembly Street, Room 865 B-1	1949 Industrial Park Road, Room 140
Charleston, SC 29403	Columbia, SC 29201	Conway, SC 29526
(ph) 843-329-8044	(ph) 803-253-3444	(ph) 843-365-4239

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



March 1, 2018

U.S. Army Corps of Engineers Charleston Regulatory Office 69-A Hagood Avenue Charleston, South Carolina 29403

Attention: Mr. Travis Hughes, Regulatory Division Chief

Reference:Request for Preliminary Jurisdictional DeterminationBridge Replacements - Little Pee Dee River on S-45 (SP-084-EJEP-18)Dillon, Dillon County, South CarolinaS&ME Project No. 4261-18-022

Dear Mr. Hughes:

On behalf of the South Carolina Department of Transportation (SCDOT, S&ME, Inc. (S&ME) has completed a Wetland Delineation at the above-referenced project area (site). The approximately 25.9-acre site is located along Lester Road (S-45) as it crosses the Little Pee Dee River, approximately 6.25 miles southeast of Dillon in Dillon County, South Carolina. The site is within a 300-foot wide corridor (150 feet from each side of the centerline of Lester Road).

The site is located in the Middle Little Pee Dee River Watershed (HUC 03040204-05) within the Pee Dee River Basin and U.S. Army Corps of Engineers (USACE) Watershed Group 4. Please refer to Exhibits 1-6 in **Appendix A** for depictions of the site and surrounding features. We are seeking a Preliminary Jurisdictional Determination (PJD) for this project.

Wetland Delineation

On February 28, 2018, S&ME Biologists Chris Daves and Chris Handley conducted the Wetland Delineation. The following features were observed:

- 6 Wetlands
- 3 Non-Wetland Waters (Tributaries)
- 1 Non-Aquatic Resource (Roadside Ditch)

Please refer to Exhibit 3 (Aerial Exhibit) in Appendix A for the approximate locations of these features.

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Request for Preliminary Jurisdictional Determination Bridge Replacements – Little Pee Dee River on S-45 (SP-084-EJEP-18) Dillon, Dillon County, South Carolina

S&ME Project No. 4261-18-022

Wetlands

Please refer to the table below for information regarding the wetland features included in the delineation.

Wetland ID	Photo ID	Comments	Acreage
Wetland 1	1-2	PFO wetland on northern portion of site west of Lester Road. Includes roadside ditch on edge of wetland.	1.70
Wetland 2	3	PFO wetland located on northern portion of site west of Lester Road. Includes roadside ditch on edge of wetland.	0.64
Wetland 3	4-5	PFO wetland located on central and southern portions of site west of Lester Road.	3.42
Wetland 4	6	PFO/PEM wetland located on northern portion of site east of Lester Road. PEM portion of wetland includes powerline ROW immediately adjacent to Lester Road.	1.55
Wetland 5	7	PFO/PEM wetland located on north-central portion of site east of Lester Road. PEM portion of wetland includes powerline ROW immediately adjacent to Lester Road.	0.10
Wetland 6	8	PFO/PEM wetland located on central and southern portions of site east of Lester Road. PEM portion of wetland includes powerline ROW immediately adjacent to Lester Road.	3.49
		Total Wetlands	10.90

Table 1 – Jurisdictional Wetlands

PFO = Palustrine Forested

PEM = Palustrine Emergent

Non-Wetland Waters (Tributaries)

Please refer to the table below for information regarding the non-wetland waters features included in the delineation.

Tributary ID	Photo ID	Comments	Linear Footage	Acreage				
NWW-1	9	Unnamed tributary to the Little Pee Dee River. Fed by roadside ditch (NAR-1).	463	0.25				
NWW-2	10-11	Little Pee Dee River.	500	1.02				
NWW-3	12-13	Side tributary of the Little Pee Dee River.	340	0.37				
		Total NWW	1,303	1.64				
	NWW – Non-We	tland Water NAR – Non-Aquatic Resource						

Table 2 – Non-Wetland Waters

In summary, the site contains approximately **<u>12.54 acres</u>** of Waters of the U.S. (WOUS).



Non-Aquatic Resource (Roadside Ditch)

Please refer to the table below for information regarding the non-aquatic resource feature included in the delineation.

	Tuble 5 – Non-Aquatte Teature								
Wetland ID	Photo ID	Comments	Linear Footage						
NAR-1	14	Roadside ditch on western side of Lester Road. Eventually forms NWW-1.	196						
	NAR – Non-Aqu	atic Resource NWW – Non-Wetland Water							

Table 2 Non Aquatic Easture

• Uplands

Upland areas on the site consist predominately of existing road causeway, a boat landing west of Lester Road on the Little Pee Dee River, and a former sand pit north of the boat landing. These portions of the site consist of the non-hydric soil series Rimini, Persanti, and Fuquay as listed in the Soil Survey of Dillon County, South Carolina and the U.S. Department of Agriculture – Natural Resources Conservation Service (USDA-NRCS) Web Soil Survey (Exhibit 4 – Soils Exhibit). Wetland vegetation, hydric soils, or hydrology were not observed in the upland areas.

Enclosures

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

Appendix A

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

Appendix B

Wetland/Upland Datasheets

Appendix C

Preliminary Jurisdictional Determination Form



Request for Preliminary Jurisdictional Determination Bridge Replacements – Little Pee Dee River on S-45 (SP-084-EJEP-18) Dillon, Dillon County, South Carolina S&ME Project No. 4261-18-022

Closing

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

Sincerely,

S&ME

Chris Hundley

Chris Handley Biologist <u>chandley@smeinc.com</u>

his Daves

Chris Daves, P.W.S. Senior Scientist <u>cdaves@smeinc.com</u>

Enclosures

<u>Appendix A</u>

Exhibits and Site Photographs







-18-022 SCDOT_Bridges Replacements over Little Pee Dee	300	600	Feet 1,200	Wetland 3: 3.42 Acres Wetland 3: 3.42 Acres Wetland 4: 1.55 Acres Wetland 5: 0.10 Acre Wetland 6: 3.49 Acre Total Wetlands: 10.90 Acres <u>Non-Wetland Waters</u> NWW-12 (ADPR): 500 LF/0.25 Acre NWW-2 (LPDR): 500 LF/0.27 Acre NWW-3: 340 LF/0.37 Acre Total Non-Wetland Waters (NWW): 1,303 LF/1.64 ac Non-Aquatic Resource 1 (NAR): 196 LF Total Site Acreage: 25.86 acres Total WOUS: 12.54 acres Total Upland Acreage: 13.32 acres		 Photograph Location & Direction Project Area Lat-Long Non-Aquatic Resource (Roadsid Non-Wetland Waters (Tributarie Wetlands Approximate Boundary 	n de Ditch) s)
SCALE	1 inch = 300 feet 8/2/2018		Bridge Pe	Aerial E		it	EXHIBIT NO.
Drawing Path: T:/Project	N BY: CCH CT NO: 4261-18-022		впаде ке	Dillon, Dillon County, Source: World Ima	South C gery 201	Carolina	3















Non-Wetland Water 3 (NWW-3) facing southeast west from bridge. Side channel of Little Pee Dee River. 14



8	Site Photographs Bridge Replacements – Little Pee Dee River on S-45	S&ME Projec	t 4261-18-022
lin E	Dillon, Dillon County, South Carolina	Taken by: CH/CD	Date: February 28, 2018

<u>Appendix B</u>

Wetland/Upland Datasheets

roject/Site: Bridge Replace	ments - Little Pee Dee R	ver 011 5-45		Sampling Date:28-Feb-18
pplicant/Owner: SCDOT			State: SC	Sampling Point: DP1 - Wet
nvestigator(s): Chris Dave	s, P.W.S.	S	ection, Township, Range:	S T R
andform (hillslope, terrace,	etc.): Lowland	Loc	al relief (concave, convex	c, none): <u>concave</u> Slope: 0.0 % / 0.0 °
ubregion (LRR or MLRA):	LRR P	Lat.: 34.3	3348 Lo	ong.:79.3227 Datum: NAD 83
oil Map Unit Name: Leon S	Sand (LbA)			NWI classification: PFO4/1B
re climatic/hydrologic con	litions on the site typ	ical for this time of year?	Yes $oldsymbol{igstar}$ No $igcap$	(If no, explain in Remarks.)
Are Vegetation, Se	oil 🗌 , or Hydrol	ogy 🗌 significantly d	sturbed? Are "Norn	nal Circumstances" present? Yes $ullet$ No $igodot$
Are Vegetation, Sr	oil 🗌 , or Hydrol	ogy 🗌 naturally prob	ematic? (If neede	d, explain any answers in Remarks.)
SUMMARY OF FINDI	NGS - Attach site	a map showing samp	ling point locations,	, transects, important features, etc.
Hydrophytic Vegetation P	resent? Yes 🖲	No O	Is the Sampled Area	
Hydric Soil Present?	Yes 🖲	No 🔿		Yes Ves Ves
Wetland Hydrology Preser	nt? Yes 🖲	No 🔿	within a wetland?	
Remarks: Wetland 2. Three param	eters met.			
HYDROLOGY				
Wetland Hydrology Indic	ators:			Secondary Indicators (minimum of 2 required)
Primary Indicators (mini	num of one required	check all that apply)		Surface Soil Cracks (B6)
Surface Water (A1)		Aquatic Fauna (B13)		Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)		Marl Deposits (B15) (L	RR U)	Drainage Patterns (B10)
Saturation (A3)		Hydrogen Sulfide Odor	(C1)	Moss Trim Lines (B16)
Water Marks (B1)			along Living Roots (C3)	Dry Season Water Table (C2)
Sediment Deposits (B2) Drift Deposits (B3)			ron (C4)	Crayfish Burrows (C8)
Algal Mat or Crust (B4)				Saturation Visible on Aerial Imagery (C9)
Iron Deposits (B5)) arke)	Shallow Aquitard (D3)
Inundation Visible on A	erial Imagery (B7)		(5)	✓ FAC-Neutral Test (D5)
Water-Stained Leaves (F	39)			Sphagnum moss (D8) (LRR T. U)
Field Observations:	-)			
Surface Water Present?	Yes 🔿 🛛 No 🖲	Depth (inches):		
Water Table Present?	Yes 🔘 No 🖲	Denth (inches):		
Saturation Present?		Depth (inches):	10 Wetland H	lydrology Present? Yes $ullet$ No $igodoldsymbol{ imes}$
(includes capillary fringe)		Deptn (Inches):	10	
			,,	

		D	ominant		Sampling Point: DP1 - Wet
	Absolute	_ > 8 R	pecies? _ el.Strat.	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u> ')	% Cover	r	Cover	Status	Number of Dominant Species
1. Liquidambar styraciflua	15	✓	37.5%	FAC	That are OBL, FACW, or FAC: (A)
2 Acer rubrum	15	✓	37.5%	FAC	
3. Persea palustris	10	✓	25.0%	FACW	Total Number of Dominant Species Across All Strata: 7 (B)
4.	0		0.0%		
5.	0		0.0%		Percent of dominant Species
δ.	0		0.0%		That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
7	0		0.0%		Prevalence Index worksheet:
8	0	\square	0.0%		Total % Cover of: Multiply by:
50% of Total Cover: 20 20% of Total Cover: 8		- та			$\begin{array}{c} \hline \begin{array}{c} \hline \end{array} \\ \hline \\ \\ \hline \end{array} \\ \\ \hline \\ \\ \hline \end{array} \\ \\ \hline \end{array} \\ \\ \hline \end{array} \\ \\ \hline \\ \\ \hline \end{array} \\ \\ \\ \\$
					$\frac{1}{2} = \frac{1}{2} = \frac{1}$
Sapiing or Sapiing/Snrub Stratum (Plot size: 30)		100.00/	FACIN	FACW spectres 70 x z = 140
			100.0%	FACW	FAC species $30 \times 3 = 90$
2	0		0.0%		FACU species $0 \times 4 = 0$
3	0		0.0%		UPL species $0 \times 5 = 0$
4	0		0.0%		Column Totals: <u>100</u> (A) <u>230</u> (B)
5	0		0.0%		Prevalence Index - R/A - 2.200
δ	0		0.0%		
7	0		0.0%		Hydrophytic Vegetation Indicators:
3	0		0.0%		1 - Rapid Test for Hydrophytic Vegetation
50% of Total Cover: 5 20% of Total Cover: 2	10	= то	otal Cove	r	\checkmark 2 - Dominance Test is > 50%
Shruh Stratum (Plot size: 20'					\sim 2 - Dominiance rest is $>$ 50 /0
	20		44 40/	EACW/	
	20		44.4%	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
	20		44.4%	FACW	1 Tu diastana of hudeis sail and mattered hudeals an anat
3. Persea borbonia	5		11.1%	FACW	be present, unless disturbed or problematic.
1	0		0.0%		
5	0		0.0%		Definition of Vegetation Strata:
6	0		0.0%		Tree - Woody plants, excluding woody vines,
50% of Total Cover: 22.5 20% of Total Cover: 9	45	= To	otal Cove	r	(7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot size: <u>30'</u>)					
1	0		0.0%		Sapling - Woody plants, excluding woody vines,
2			0.0%		approximately 20 ft (6 m) or more in height and less
3			0.0%		
аа			0.0%		Sapling/Shrub - Woody plants, excluding vines, less
4 E			0.0%		than 3 in. DBH and greater than 3.28 ft (1m) tall.
5			0.0%		
0			0.0%		Shrub - Woody plants, excluding woody vines,
<i>1</i>			0.0%		approximately 3 to 20 ft (1 to 6 m) in height.
8			0.0%		Herb - All berbaceous (non-woody) plants, including
9	0		0.0%		herbaceous vines, regardless of size, and woody
10	0		0.0%		plants, except woody vines, less than approximately
11	0		0.0%		3 ft (1 m) in height.
12	0		0.0%		
50% of Total Cover: 0 20% of Total Cover: 0	0	= То	otal Cove	r	Woody vine - All woody vines, regardless of height.
Woody Vine Stratum (Plot size: 30')					
1 Smilax laurifolia	5	\checkmark	100.0%	FACW	
			0.0%		
<u>-</u>			0.0%		
J			0.0%	·	
+			0.0%		Hydrophytic
0	0		0.0%		
50% of Total Cover: 2.5 20% of Total Cover: 1	5	= То	otal Cove	r	Present? Tes \odot NO \bigcirc
Remarks: (If observed, list morphological adaptations below). Hydrophytic vegetation observed.					
*Indicator suffix = National status or professional decision assigned because (Regional status	: not (defined by F	WS	

rofile Description: (Describe to the de	pth needed to document	the indicator or co	nfirm the a	absence of indicators	5.)
Depth Matrix	Rec	lox Features			
(inches) <u>Color (moist)</u> %	Color (moist)	<u>%</u> <u>Tvpe</u> ¹	Loc ²	Texture	Remarks
0-20 10YR 2/1 100				Loam	
			p		
pe: C=Concentration. D=Depletion. RM=	Reduced Matrix, CS=Covere	d or Coated Sand Gra	ins ² Locat	tion: PL=Pore Lining. M	1=Matrix
dric Soil Indicators:				Indicators for Pr	oblematic Hydric Soils ³ :
Histosol (A1)	Polyvalue Belo	w Surface (S8) (LRR	S, T, U)	1 cm Muck (A9	9) (LRR O)
Histic Epipedon (A2)	Thin Dark Sur	face (S9) (LRR S, T, L	J)	2 cm Muck (A	10) (LRR S)
Black Histic (A3)	Loamy Mucky	Mineral (F1) (LRR O)		Reduced Verti	c (F18) (outside MLRA 150A,B)
J Hydrogen Sulfide (A4)	Loamy Gleyed	Matrix (F2)		Piedmont Floo	odplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5)	Depleted Matr	ix (F3)		Anomalous Bri	ight Loamy Soils (F20) (MLRA 153B)
Organic Bodies (A6) (LRR P, T, U)	Redox Dark S	urface (F6)		Red Parent Ma	aterial (TF2)
5 cm Mucky Mineral (A7) (LRR P, T, U)	Depleted Dark	Surface (F7)		Very Shallow [Dark Surface (TF12)
Muck Presence (A8) (LRR U)	Redox Depres	sions (F8)		Other (Explain	in Remarks)
1 cm Muck (A9) (LRR P, T)	🗌 Marl (F10) (LF	RR U)			
Depleted Below Dark Surface (A11)	Depleted Och	ric (F11) (MLRA 151)			
Thick Dark Surface (A12)	Iron-Mangane	se Masses (F12) (LRF	C, P, T)		
Coast Prairie Redox (A16) (MLRA 150A)	Umbric Surfac	e (F13) (LRR P, T, U)			
Sandy Muck Mineral (S1) (LRR O, S)	Delta Ochric (F17) (MLRA 151)		_	
Sandy Gleyed Matrix (S4)	Reduced Verti	c (F18) (MLRA 150A.	150B)	³ Indicato	ors of hydrophytic vegetation and
Sandy Redox (S5)	Piedmont Floo	dplain Soils (F19) (MI	RA 149A)	wetlar	nd hydrology must be present, ess disturbed or problematic
Stripped Matrix (S6)	Anomalous Br	ight Loamy Soils (F20) (MIRA 140	A 153C 153D)	
Dark Surface (S7) (LRR P, S, T, U)) (., 2000, 2002)	
strictive Layer (if observed):					
Туре:					
Depth (inches):				Hydric Soil Presen	t? Yes $ullet$ No $igcup$
emarks:					
tric soils observed					

Project/Site: Bridge Replacements - Little Pee Dee River on S-45	City/County:	Dillon/Dillon		Sampling Date:	28-Feb-18
Applicant/Owner: SCDOT		State: SC	Sampling P	oint: DP 1 - UP	
Investigator(s): Chris Daves, P.W.S.	Section, Tov	vnship, Range: S	т	R	
Landform (hillslope, terrace, etc.): Hillside	Local relief (c	oncave, convex, nor	ne): concave	Slope: (0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR P		Long.:	-79.3228	Dat	um: NAD 83
Soil Man Unit Name: Leon Sand (LbA)	<u> </u>		NWI classi	fication: PFO4/1B	
Are climatic /hydrologic conditions on the site typical for this time	of year? Ye		If no explain in	Remarks)	
Are Vegetation Soil or Hydrology signi	ficantly disturbed?	Are "Normal Ci	ircumstances"	nrecent? Yes	No O
SUMMARY OF FINDINGS - Attach site map showin	g sampling poir	(If needed, ex	nsects, imp	ortant features	, etc.
Hydrophytic Vegetation Present? Yes					
Hydric Soil Present? Yes No •	Is the	e Sampled Area			
Wetland Hydrology Present? Yes O No •	withi	n a Wetland? Y	es \cup No $ullet$		
Pemarke:					
Upland DP take on small slope west of Wetland 2.					
- Francisco - Fran					
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indicat	tors (minimum of 2 re	auired)
Primary Indicators (minimum of one required; check all that a	pply)		Surface Soil C	Tracks (B6)	<u>1</u>
Surface Water (A1)	na (B13)		Sparsely Vege	etated Concave Surfac	e (B8)
High Water Table (A2)	ts (B15) (LRR U)	Drainage Patterns (B10)			
Saturation (A3)	ulfide Odor (C1)		Moss Trim Lir	nes (B16)	
Water Marks (B1) Oxidized Rh	izospheres along Living	g Roots (C3)	Dry Season W	/ater Table (C2)	
Sediment Deposits (B2)	Reduced Iron (C4)		Crayfish Burro	ows (C8)	
Drift Deposits (B3)	Reduction in Tilled Soi	ils (C6)	Saturation Vis	sible on Aerial Imagery	ι (C9)
Algal Mat or Crust (B4)	Surface (C7)		Geomorphic F	osition (D2)	
Iron Deposits (B5)	ain in Remarks)		Shallow Aquit	ard (D3)	
Inundation Visible on Aerial Imagery (B7)			FAC-Neutral 1	ſest (D5)	
Water-Stained Leaves (B9)			Sphagnum m	oss (D8) (LRR T, U)	
Field Observations:					
Surface Water Present? Yes \bigcirc No $ullet$ Depth (inc	:hes):	-			
Water Table Present? Yes \bigcirc No $oldsymbol{igstar}$ Depth (inc	ches):				2
Saturation Present? Yes No	thes):	Wetland Hydro	logy Present?	$Yes \cup No @$	Ð
(includes capillary fringe)	nhotos previous in	- spections) if availal	hle:		
Describe Recorded Data (Stream gauge, morntoning weil, achai	priotos, previous in	spections), it availab	DIC.		
Remarks:					
Wetland hydrology not observed.					

		Dominant		Sampling Point: DP1 - UP
Tree Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Rel.Strat.	Indicator Status	Dominance Test worksheet:
Pinus taeda	40	100.0%	FAC	Number of Dominant Species That are OBL EACW or EAC: 2 (A)
	0	0.0%		
 \	0	0.0%		Total Number of Dominant
•		0.0%		Species Across All Strata:
•	0	0.0%		Percent of dominant Species
/ \		0.0%		That Are OBL, FACW, or FAC: <u>66.7%</u> (A/B)
7	0	0.0%		Provalence Index worksheet:
		0.0%		Total % Cover of Multiply by:
50% of Total Cover: 20 20% of Total Cover: 8	40 :	= Total Cove		$0BL \text{ species} \qquad 0 \qquad x \ 1 = 0$
Sanling or Sanling (Shrub Stratum (Plot size: 20)	· <u>· · · · ·</u>		-	EACW species $40 \times 2 = 80$
Saping of Saping/Sillub Stratum (Hotsize: 50	/	0.0%		$\frac{10}{10} \times 2 = \frac{10}{10}$
				$\frac{1}{10} \times 3 = \frac{120}{20}$
				FACU Species $3 \times 4 = 20$
•				UPL species x 5 =
·				Column Totals: <u>85</u> (A) <u>220</u> (B)
·	0	0.0%		Prevalence Index = $B/A = 2.588$
·				Hydrophytic Vegetation Indicators:
·				
				1 - Rapid Test for Hydrophytic Vegetation
		= Total Cove	er	✓ 2 - Dominance Test is > 50%
Shrub Stratum (Plot size: <u>30</u>)				✓ 3 - Prevalence Index is \leq 3.0 ¹
Lyonia lucida	35	₹ 87.5%	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
Cyrilla racemiflora	5	12.5%	FACW	
·	0	0.0%		Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
·	0	0.0%		
•	0	0.0%		Definition of Vegetation Strata:
·	0	0.0%		Tree - Woody plants, excluding woody vines,
50% of Total Cover: 20 20% of Total Cover: 8	40 =	= Total Cove	er	(7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot size: <u>30'</u>)				
1. Pteridium aquilinum	5	✓ 100.0%	FACU	Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
2	0	0.0%		than 3 in. (7.6 cm) DBH.
3	0	0.0%		
4	0	0.0%		Sapling/Shrub - Woody plants, excluding vines, less
5	0	0.0%		than 3 in. DBH and greater than 3.28 ft (1m) tall.
6	0	0.0%		Shrub - Woody plants, excluding woody vines.
7	0	0.0%		approximately 3 to 20 ft (1 to 6 m) in height.
8	0	0.0%		
9	0	0.0%		Herb - All herbaceous (non-woody) plants, including
0	0	0.0%		plants, except woody vines, less than approximately
1	0	0.0%		3 ft (1 m) in height.
2	0	0.0%		
50% of Total Cover: 2.5 20% of Total Cover: 1	5 =	= Total Cove	er	Woody vine - All woody vines, regardless of height.
Woody Vine Stratum (Plot size: 30')				
	0	0.0%		
•				
·				Hydrophytic
		0.0%		Ilyalophyde
	0	0.0%		Vegetation Procent? Yes No

Sampling Point: DP 1 - UP

Profile Desc	ription: (De	scribe to	the depth	needed to documen	t the indic	ator or co	nfirm the a	absence of indicators	.)
Depth		Matrix		Re	dox Featu	res			
(inches)	Color (moist)	%	Color (moist)	%	Tvpe ¹	Loc ²	Texture	Remarks
0-9	10YR	3/1	100					Loamy Sand	<70% coated grains/no redox
9-20	10YR	3/3	100		_		-	Sand	°
				p					
				·					
							-	-	
	8	-							
1 Type: C=Con	centration D)=Denletio	n RM=Redu		ed or Coate	d Sand Gra	uins ² l oca	tion: PI =Pore Lining M	=Matrix
Hydric Soil							IIIIS LOCA		
					ow Surface	(0) (100	сти	Indicators for Pro	oblematic Hydric Soils ³ :
	nedon (Δ 2)				ow Sunace		5, 1, U) N	1 cm Muck (AS	9) (LRR O)
	tic (A3)				(Minoral (E	1) (I DD ())))	2 cm Muck (Al	.0) (LRR S)
	us (73) Sulfide (84)				/ Millieral (F	1) (LRR U)		Reduced Vertic	c (F18) (outside MLRA 150A,B)
Stratified	Lavers (A5)					2)		Piedmont Floo	dplain Soils (F19) (LRR P, S, T)
	Edycis (AS) (I	DDD TI	n		ΓΙΧ (F3)			Anomalous Bri	ght Loamy Soils (F20) (MLRA 153B)
	www.Mineral (/	17) (I DD D	<i>י</i> י エ い					Red Parent Ma	terial (TF2)
	conco (A8) (I		, 1, 0)			F7)		Very Shallow D	Dark Surface (TF12)
	·k (Δ9) (I RR	р т)						Other (Explain	in Remarks)
	Relow Dark 9	·, ·) Surface (Δ΄	11)		KK U)	ALDA 1E1)			
	k Surface (A	12)				(E12) (LRA 151)			
	irie Redox (A	16) (MI R4	1504)				(O, P, T)		
Sandy Mu	ick Mineral (9		(130A) (S)			KK P, I, U) A 151)			
Sandy Fie	eved Matrix (51) (LINICO 54)	, 5)		(F17) (MLR)	A 151)	1500)	³ Indicato	ors of hydrophytic vegetation and
Sandy Be	dox $(S5)$	51)			uc (FIO) (M adalaia Cail	LKA 150A,	130D)	wetlar	id hydrology must be present,
Stripped	Matrix (S6)				right Loom	(F19) (ML	_KA 149A)		ess disturbed of problematic.
Dark Surf	ace (S7) (I R	R P. S. T. I	n		ngnit Loanny	/ 50lis (F20) (MLKA 14)	9A, 155C, 155D)	
		, ., ., .	-,						
Restrictive L	ayer (if obs	erved):							
Туре:								Undria Cail Duanant	
Depth (inc	hes):							Hydric Soli Present	
Remarks:									
Hydric soils r	ot observed	d.							

Project/Site: Bridge Replacements-Little Pee Dee River on S-45	City/County:	Dillon/Dillon		Sampling Date:	28-Feb	-18
Applicant/Owner: SCDOT		State: SC	Sampling Po	int: DP-2 Wet		
Investigator(s): Chris Handley, S&ME	Section, Tow	nship, Range: S	т	R		
Landform (hillslope, terrace, etc.): Base of Hillslope	Local relief (co	oncave, convex, nor	ne): concave	Slope:	0.5 % /	0.3 °
Subregion (LRR or MLRA): LRR P Lat.	: 34.3343	Long.:	-79.3223	Da	tum: NAD	83
Soil Map Unit Name: Leon Sand (LbA)			NWI classifi	cation: U73		
Are climatic/hydrologic conditions on the site typical for this time of y	/ear? Ye	5 • No O	If no, explain in	Remarks.)		
Are Vegetation , Soil , or Hydrology significa	ntly disturbed?	Are "Normal Ci	ircumstances" p	resent? Yes	• No C)
	, v problematic?	(If peeded ov		re in Romarke)		
SUMMARY OF FINDINGS - Attach site map showing s	ampling poin	t locations, tra	nsects, impo	ortant feature	s, etc.	
Hydrophytic Vegetation Present? Yes $ullet$ No $igodot$	Is the	Sampled Area				
Hydric Soil Present? Yes No	15 116					
Wetland Hydrology Present? Yes No	withi	n a Wetland?				
Remarks:						
Data point taken on the southern side of Wetland 2 at base of mir	nor hillslope.					
HYDROLOGY						
Wetland Hydrology Indicators:		9	Secondary Indicato	ors (minimum of 2 r	equired)	
Primary Indicators (minimum of one required; check all that apply	()		Surface Soil Cr	acks (B6)		
Surface Water (A1)	(B13)		Sparsely Veget	ated Concave Surfa	ice (B8)	
High Water Table (A2)	B15) (LRR U)		Drainage Patte	rns (B10)		
Saturation (A3)	le Odor (C1)		Moss Trim Line	es (B16)		
Water Marks (B1)	pheres along Living	Roots (C3)	Dry Season Wa	ater Table (C2)		
Sediment Deposits (B2)	duced Iron (C4)		Crayfish Burro	ws (C8)		
Drift Deposits (B3)	duction in Tilled Soi	s (C6)	Saturation Visi	ole on Aerial Image	ry (C9)	
Algal Mat or Crust (B4)	ace (C7)		Geomorphic Po	osition (D2)		
Iron Deposits (B5) Other (Explain i	n Remarks)		Shallow Aquita	rd (D3)		
Inundation Visible on Aerial Imagery (B7)			✓ FAC-Neutral Te	est (D5)		
✓ Water-Stained Leaves (B9)			Sphagnum mo	ss (D8) (LRR T, U)		
Field Observations:						
Surface Water Present? Yes \bigcirc No $oldsymbol{O}$ Depth (inches	;):					
Water Table Present? Yes O No O Depth (inches	;):				~	
Saturation Present? Vec	.). <u> </u>	Wetland Hydro	logy Present?	Yes 🖲 No	0	
(includes capillary fringe)	. <u> </u>					
Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous ins	spections), if availal	ble:			
Remarks:						
Wetland hydrology indicators were observed						

		Don	ninant		Sampling Point: DP-2 Wet
	Absolute	_ Spe Rel	ecies - .Strat.	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30-ft.</u>)	% Cover	<u> </u>	over	Status	Number of Dominant Species
Acer rubrum	30		60.0%	FAC	That are OBL, FACW, or FAC:5(A)
2 Liquidambar styraciflua	20	_ _	40.0%	FAC	Total Number of Dominant
3	0		0.0%		Species Across All Strata:5_ (B)
ł	0		0.0%		Dereent of dominant Creation
	0		0.0%		That Are OBL. FACW. or FAC:100.0% (A/B)
)	0		0.0%		
7	0		0.0%		Prevalence Index worksheet:
3	0		0.0%		Total % Cover of: Multiply by:
50% of Total Cover: 25 20% of Total Cover: 10		= Tot	al Cover		OBL species $0 \times 1 = 0$
Sapling or Sapling/Shrub Stratum (Plot size: <u>30-ft.</u>)				FACW species $5 \times 2 = 10$
1. Quercus nigra	10		100.0%	FAC	FAC species $\frac{70}{2}$ x 3 = $\frac{210}{2}$
2	0		0.0%		FACU species $0 \times 4 = 0$
3	0		0.0%		UPL species $0 \times 5 = 0$
4			0.0%		Column Totals: (A) (B)
D	0		0.0%		Prevalence Index = $B/A = 2.933$
D			0.0%		
/			0.0%		
3	0	□	0.0%		1 - Rapid Test for Hydrophytic Vegetation
50% of Total Cover: 20% of Total Cover:	10 :	= Tot	al Cover		✓ 2 - Dominance Test is > 50%
Shrub Stratum (Plot size: <u>30-ft.</u>)					✓ 3 - Prevalence Index is \leq 3.0 ¹
Persea borbonia	5		100.0%	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
2	0		0.0%		
3	0		0.0%		¹ Indicators of hydric soil and wetland hydrology must
1	0		0.0%		be present, unless disturbed or problematic.
5	0		0.0%		Definition of Vegetation Strata:
б	0		0.0%		Tree - Woody plants, excluding woody vines,
50% of Total Cover: <u>2.5</u> 20% of Total Cover: <u>1</u>	5	= Tot	al Cover		approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot size: <u>30-ft.</u>)					
1. Smilax rotundifolia	10		100.0%	FAC	Sapling - Woody plants, excluding woody vines,
2.	0		0.0%		than 3 in. (7.6 cm) DBH.
3.	0		0.0%		
4.	0		0.0%		Sapling/Shrub - Woody plants, excluding vines, less
5.	0		0.0%		than 3 in. DBH and greater than 3.28 ft (1m) tall.
6.	0		0.0%		Shruh Weedy plants, evoluting weedy vince
7.	0		0.0%		approximately 3 to 20 ft (1 to 6 m) in height.
8.	0		0.0%		
9.	0		0.0%		Herb - All herbaceous (non-woody) plants, including
10.	0		0.0%		herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately
11.	0		0.0%		3 ft (1 m) in height.
12.	0		0.0%		
50% of Total Cover: 5 20% of Total Cover: 2	10 :	= Tot	al Cover		Woody vine - All woody vines, regardless of height.
Weady Vine Strature (Plot size: 30-ft)					
woody vine Stratum (Hot size: /	0		0.00/		
l			0.0%		
2			0.0%		
)			0.0%		
+			0.0%		Hydrophytic
-	0	\square_{-}	0.0%		Vegetation
5	-				

Sampling Point: DP-2 Wet

Profile Desc	ription: (Describe to	the depth r	needed to document	the indic	ator or co	nfirm the a	absence of indicator	s.)
Depth	Matrix		Rec	lox Featu	ires			
(inches)	Color (moist)	%	Color (moist)	%	Tvpe ¹	Loc ²	Texture	Remarks
<u> 1-20 </u>	10YR 2/1		· ·					MUCKY/OITY SOIT TEXTURE
Type: C=Con Hydric Soil 1 Histosol (Histic Epi Black Hist Hydroger Stratified	centration. D=Depletio Indicators: A1) pedon (A2) ic (A3) Sulfide (A4) Layers (A5)		ced Matrix, CS=Covere	d or Coate ww Surface face (S9) (Mineral (F Matrix (F3)	ed Sand Grai	 ns ²Locat 5, T, U))	tion: PL=Pore Lining. Indicators for P I 1 cm Muck (A 2 cm Muck (A Reduced Vert Piedmont Floo	M=Matrix roblematic Hydric Soils ³ : A9) (LRR O) A10) (LRR S) ic (F18) (outside MLRA 150A,B) odplain Soils (F19) (LRR P, S, T) right Loamy Soils (F20) (MLRA 153B)
 Organic E 5 cm Muc Muck Pre Muck Pre 1 cm Muc Depleted Thick Dar Coast Pra 	odies (A6) (LRR P, T, I ky Mineral (A7) (LRR P sence (A8) (LRR U) k (A9) (LRR P, T) Below Dark Surface (A k Surface (A12) irie Redox (A16) (MLR/	U) 2, T, U) 11) A 150A)	Redox Dark St Depleted Dark Redox Depres Marl (F10) (LR Depleted Ochi Iron-Mangane Umbric Surfac	urface (F6) Surface (sions (F8) R U) ric (F11) (I se Masses e (F13) (L) F7) MLRA 151) (F12) (LRR RR P, T, U)	O, P, T)	Red Parent M	laterial (TF2) Dark Surface (TF12) n in Remarks)
Sandy Mu Sandy Gle Sandy Re Stripped Dark Surf	ick Mineral (S1) (LRR C eyed Matrix (S4) dox (S5) Matrix (S6) ace (S7) (LRR P, S, T,	0, S) U)	Delta Ochric (Reduced Verti Piedmont Floc Anomalous Br	F17) (MLR c (F18) (M dplain Soi ight Loam	A 151) ILRA 150A, : Is (F19) (ML y Soils (F20)	150B) RA 149A) (MLRA 149	³ Indicat wetla un 9A, 153C, 153D)	tors of hydrophytic vegetation and and hydrology must be present, less disturbed or problematic.
Restrictive L	ayer (if observed):							
Depth (inc	hes):			_			Hydric Soil Preser	nt? Yes 🖲 No 🔾
Remarks: Hydric soils v	vere observed.							

Project/Site: Bridge Replacements-Little Pee Dee River on S-45	City/County:	Dillon/Dillon		Sampling Date:	28-Feb-18
Applicant/Owner: SCDOT		State: SC	Sampling P	oint: DP 2-Up	
Investigator(s): Chris Handley, S&ME	Section, Tow	nship, Range: S	т	R	
Landform (hillslope, terrace, etc.): Hillslope	Local relief (co	oncave, convex, noi	ne): concave	Slope:	0.5 % / 0.3 °
Subregion (LRR or MLRA): LRR P La	t.: 34.3343	Long.:	-79.3224	Da	tum: NAD 83
Soil Map Unit Name: Leon Sand (LbA)			NWI classi	fication: U73	
Are climatic/hydrologic conditions on the site typical for this time of	f vear? Ye	s • No O	If no, explain ir	ı Remarks.)	
Are Vegetation Soil or Hydrology signific	cantly disturbed?	Are "Normal C	ircumstances"	nresent? Yes	● _{No} ○
Are Vegetation Soil or Hydrology patura	lly problematic?	(If nooded or		ore in Romarke)	
SUMMARY OF FINDINGS - Attach site map showing	sampling poin	t locations, tra	insects, imp	ortant feature	s, etc.
Hydrophytic Vegetation Present? Yes No		6			
Hydric Soil Present? Yes O No 🖲	Is the				
Wetland Hydrology Present? Yes O No •	within	n a Wetland?	es 🗢 INU 😇		
Remarks:					
Data point taken in upland area on hillslope.					
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indicat	tors (minimum of 2 re	equired)
Primary Indicators (minimum of one required; check all that app	oly)		Surface Soil C	Tracks (B6)	
Surface Water (A1)	a (B13)	[Sparsely Vege	etated Concave Surfa	.ce (B8)
High Water Table (A2)	(B15) (LRR U)	[Drainage Patt	erns (B10)	
Saturation (A3)	fide Odor (C1)	[Moss Trim Lir	nes (B16)	
Water Marks (B1) Oxidized Rhiz	ospheres along Living	Roots (C3)	Dry Season W	/ater Table (C2)	
Sediment Deposits (B2)	educed Iron (C4)	[Crayfish Burro	ows (C8)	
Drift Deposits (B3)	eduction in Tilled Soi	ls (C6)	Saturation Vis	ible on Aerial Imager	ry (C9)
Algal Mat or Crust (B4)	rface (C7)	[Geomorphic F	osition (D2)	
Iron Deposits (B5) Other (Explain	n in Remarks)		Shallow Aquit	ard (D3)	
Inundation Visible on Aerial Imagery (B7)		[FAC-Neutral T	est (D5)	
Water-Stained Leaves (B9)		[Sphagnum m	oss (D8) (LRR T, U)	
Field Observations:					
Surface Water Present? Yes 🔾 No 🔍 Depth (inch	es):				
Water Table Present? Yes O No O Depth (inch	es):				
Saturation Present? Yes No Depth (inch	es):	Wetland Hydro	logy Present?	$Yes \cup No$	\bullet
(includes capillary tringe)	botos previous in	enections) if availa	hle		
Describe Recorded Data (stream gauge, monitoring weil, aenar p	notos, previous ma	spections), ir availa	DIC.		
Remarks:					
Wetland hydrology criteria not met.					

	Image: constraint of the second sec	Indicator Status FAC	Dominance Test worksheet:Number of Dominant SpeciesThat are OBL, FACW, or FAC:3Total Number of DominantSpecies Across All Strata:3Percent of dominant SpeciesThat Are OBL, FACW, or FAC:100.0%Prevalence Index worksheet:Total % Cover of:Multiply by:OBL species0X 1 =0FACW species0X 2 =0FAC species0X 4 =0UPL species0X 5 =0Column Totals:40(A)120Prevalence Index = B/A =3.000Hydrophytic Vegetation Indicators:1 - Rapid Test for Hydrophytic VegetationI 2 - Dominance Test is > 50%I 3 - Prevalence Index is ≤3.0 1Problematic Hydrophytic Vegetation 1 (Explain)
	100.0% 0.0%	FAC	Number of Dominant Species That are OBL, FACW, or FAC:3(A)Total Number of Dominant Species Across All Strata:3(B)Percent of dominant Species That Are OBL, FACW, or FAC:100.0%(A/B)Prevalence Index worksheet:100.0%(A/B)Total % Cover of:Multiply by:0OBL species0x 1 =0FACw species0x 2 =0FAC species0x 3 =120FAC species0x 5 =0UPL species0x 5 =0Column Totals:40(A)120Hydrophytic Vegetation Indicators:1 - Rapid Test for Hydrophytic Vegetation(B)IPrevalence Index is $\leq 3.0^{1}$ Problematic Hydrophytic Vegetation 1 (Explain)
	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%		Inde ale ODL, FACW, OFFAC
	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%		Total Number of Dominant Species Across All Strata:3(B)Percent of dominant Species That Are OBL, FACW, or FAC:100.0%(A/B)Prevalence Index worksheet:100.0%(A/B)Total % Cover of:Multiply by:0OBL species0x 1 =0FACW species0x 2 =0FAC species40x 3 =120FACU species0x 4 =0UPL species0x 5 =0Column Totals:40(A)120Hydrophytic Vegetation Indicators:1 - Rapid Test for Hydrophytic Vegetation \checkmark 2 - Dominance Test is > 50% \checkmark 3 - Prevalence Index is $\leq 3.0^{1}$ Problematic Hydrophytic Vegetation 1 (Explain)
	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%		Species Across All Strata:3(B)Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)Prevalence Index worksheet:Total % Cover of:Multiply by:OBL species0x 1 =0x 3 =120FACW species0x 3 =120x 3 =120FAC species0x 4 =0UPL species0x 5 =0x 5 =0column Totals:40(A)1 - Rapid Test for Hydrophytic VegetationI1 - Rapid Test for Hydrophytic VegetationI2 - Dominance Test is > 50%I3 - Prevalence Index is $\leq 3.0^{1}$ Problematic Hydrophytic Vegetation 1 (Explain)
	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%		Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B) Prevalence Index worksheet: <u>Total % Cover of:</u> Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>40</u> x 3 = <u>120</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>40</u> (A) <u>120</u> (B) Prevalence Index = B/A = <u>3.000</u> Hydrophytic Vegetation Indicators: <u>1 - Rapid Test for Hydrophytic Vegetation</u> ¥ 2 - Dominance Test is > 50% 3 - Prevalence Index is $\leq 3.0^{1}$ Problematic Hydrophytic Vegetation ¹ (Explain)
	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%		That Are OBL, FACW, or FAC: 100.0% (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 40 x 3 = 120 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 40 (A) 120 (B) Prevalence Index = B/A = 3.000 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is > 50% 3 - Prevalence Index is $\leq 3.0^{1}$ Problematic Hydrophytic Vegetation 1 (Explain) 1 Indicators of hydric soil and wetland hydrology must
	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%		Prevalence Index worksheet:Total % Cover of:Multiply by:OBL species0x 1 =OBL species0x 2 =FACW species40x 3 =I20FACU species0FACU species0x 4 =OPL species0x 5 =Column Totals:40(A)I20(B)Prevalence Index = B/A =3.000Hydrophytic Vegetation Indicators:1 - Rapid Test for Hydrophytic Vegetation $ all 2 - Dominance Test is > 50\% $ 3 - Prevalence Index is $\leq 3.0^{1}$ Problematic Hydrophytic Vegetation 1 (Explain)
	0.0% 0.0%		Total % Cover of: Multiply by:OBL species0 $x \ 1 = 0$ FACw species0 $x \ 2 = 0$ FAC species40 $x \ 3 = 120$ FAC species0 $x \ 4 = 0$ UPL species0 $x \ 5 = 0$ column Totals:40(A)Prevalence Index = B/A =3.000Hydrophytic Vegetation Indicators:1 - Rapid Test for Hydrophytic Vegetation
	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%		Induction by cover of the product
	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%		FACW species 0 x 2 = 0 FAC species 40 x 3 = 120 FAC species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 40 (A) 120 (B) Prevalence Index = B/A = 3.000 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is > 50% 3 - Prevalence Index is $\leq 3.0^{1}$ Problematic Hydrophytic Vegetation 1 (Explain) 1 Indicators of hydric soil and wetland hydrology must
	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%		FAC species 40 x 3 = 120 FAC species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 40 (A) 120 (B) Prevalence Index = B/A = 3.000 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is > 50% 3 - Prevalence Index is $\leq 3.0^{1}$ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must
	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%		FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 40 (A) 120 (B) Prevalence Index = B/A = 3.000 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is > 50% 3 - Prevalence Index is $\leq 3.0^{1}$ Problematic Hydrophytic Vegetation 1 (Explain) 1 Indicators of hydric soil and wetland hydrology must
	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%		<pre>PACU Spectes X 4 = UPL species X 5 = Column Totals:40 (A)120 (B) Prevalence Index = B/A =3.000 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation ♥ 2 - Dominance Test is > 50% ♥ 3 - Prevalence Index is ≤3.0 ¹ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must</pre>
	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%		OPL spectes x 5 = Column Totals: 40 (A) 120 (B) Prevalence Index = B/A = 3.000 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation ✓ 2 - Dominance Test is > 50% ✓ 3 - Prevalence Index is ≤3.0 ¹ ✓ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must
	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%		Column Totals: 40 (A) 120 (B) Prevalence Index = B/A = 3.000 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation ✓ 2 - Dominance Test is > 50% ✓ 3 - Prevalence Index is ≤3.0 ¹ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must
	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%		Prevalence Index = B/A = <u>3.000</u> Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation ✓ 2 - Dominance Test is > 50% ✓ 3 - Prevalence Index is ≤3.0 ¹ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must
	0.0% 0.0% 0tal Cover 0.0% 0.0% 0.0% 0.0% 0.0%		Hydrophytic Vegetation Indicators: □ 1 - Rapid Test for Hydrophytic Vegetation ✓ 2 - Dominance Test is > 50% ✓ 3 - Prevalence Index is ≤3.0 ¹ □ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must
	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%		 1 - Rapid Test for Hydrophytic Vegetation ✓ 2 - Dominance Test is > 50% ✓ 3 - Prevalence Index is ≤3.0 ¹ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must
	0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	 	 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is > 50% 3 - Prevalence Index is ≤3.0 ¹ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must
	0.0% 0.0% 0.0% 0.0% 0.0%		 ✓ 2 - Dominance Test is > 50% ✓ 3 - Prevalence Index is ≤3.0 ¹ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must
	0.0% 0.0% 0.0% 0.0% 0.0%		 ✓ 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must
	0.0% 0.0% 0.0% 0.0% 0.0%		Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must
	0.0% 0.0% 0.0% 0.0%		¹ Indicators of hydric soil and wetland hydrology must
	0.0% 0.0% 0.0% 0.0%		Indicators of hydric soil and wetland hydrology must
	0.0%		be present, unless disturbed or problematic.
	0.0%		
	0.0%		Definition of Vegetation Strata:
			Tree - Woody plants, excluding woody vines,
= T(otal Cover		(7.6 cm) or larger in diameter at breast height (DBH).
✓	100.0%	FAC	Sapling - Woody plants, excluding woody vines,
	0.0%		than 3 in. (7.6 cm) DBH.
	0.0%		
	0.0%		Sapling/Shrub - Woody plants, excluding vines, less
	0.0%		than 3 in. DBH and greater than 3.28 ft (1m) tall.
	0.0%		Shrub - Woody plants, excluding woody vines
	0.0%		approximately 3 to 20 ft (1 to 6 m) in height.
	0.0%		
	0.0%		Herb - All herbaceous (non-woody) plants, including
	0.0%		plants, except woody vines, less than approximately
	0.0%		3 ft (1 m) in height.
	0.0%	M	
= T(otal Cover		Woody vine - All woody vines, regardless of height.
	100.0%	EAC	
	0.0%		
	0.0%		
	0.0%		
	0.0%		Hydrophytic
	0.0%		Vegetation
		-	Present? Yes No
	otal Cover		Present? Yes No
	otal Cover		Present? Yes No
		 ✓ 100.0% ○ 0.0% ○ 0.0% ○ 0.0% ○ 0.0% 	✓ 100.0% FAC ○ 0.0%

Sampling Point: DP 2-Up

Profile Desc	ription: (De	scribe to	the depth	needed to document	the indic	ator or co	nfirm the a	absence of indicators.)
Depth		Matrix		Re	dox Featu	res			
(inches)	Color (moist)		Color (moist)	%	Tvpe ¹	Loc ²	Texture	Remarks
1-6	10YR	4/3	100					Sand	
6-20	10YR	4/4	100					Sand	
				, ,					
	-							-	
¹ Type: C=Con	centration. D	=Depletio	n. RM=Redu	uced Matrix, CS=Covere	ed or Coate	d Sand Gra	ins ² Loca	tion: PL=Pore Lining. M	=Matrix
Hydric Soil	Indicators:			_				Indicators for Pro	blematic Hydric Soils ³ :
Histosol ((A1)			Polyvalue Bel	ow Surface	(S8) (LRR :	S, T, U)	1 cm Muck (A9) (LRR O)
Histic Epi	pedon (A2)			Thin Dark Sur	face (S9) (LRR S, T, U	I)	2 cm Muck (A1	0) (LRR S)
Black Hist	tic (A3)			Loamy Mucky	Mineral (F	1) (LRR O)		Reduced Vertic	(F18) (outside MLRA 150A,B)
Hydroger	n Sulfide (A4)			Loamy Gleyed	d Matrix (F2	2)		Piedmont Flood	lplain Soils (F19) (LRR P, S, T)
Stratified	Layers (A5)			Depleted Mat	rix (F3)			Anomalous Brid	ht Loamy Soils (F20) (MLRA 153B)
🗌 Organic E	Bodies (A6) (L	.RR P, T, L	J)	Redox Dark S	urface (F6))		Red Parent Mat	terial (TF2)
🗌 5 cm Muc	cky Mineral (A	7) (LRR P	, T, U)	Depleted Dar	k Surface (F7)		Very Shallow D	ark Surface (TF12)
Muck Pre	sence (A8) (L	.RR U)		Redox Depres	sions (F8)			Other (Explain	in Remarks)
🗌 1 cm Muo	ck (A9) (LRR I	Р, Т)		🗌 Marl (F10) (Ll	RR U)				in remarks)
Depleted	Below Dark S	Surface (A:	11)	Depleted Och	ric (F11) (N	4LRA 151)			
Thick Dar	k Surface (A1	12)		Iron-Mangane	ese Masses	(F12) (LRR	O, P, T)		
🗌 Coast Pra	airie Redox (A	.16) (MLRA	150A)	Umbric Surfac	ce (F13) (L	RR P, T, U)			
Sandy Mu	uck Mineral (S	51) (LRR O	, S)	Delta Ochric (F17) (MLR	A 151)			
Sandy Gle	eved Matrix (54)			ic (F18) (M	IRA 150A	150B)	³ Indicato	rs of hydrophytic vegetation and
Sandy Re	dox (S5)	,		Piedmont Flor	ndnlain Soil	s (F19) (MI	RA 149A)	wetlan	d hydrology must be present,
Stripped	Matrix (S6)				right Loam	/ Soile (F20)) (MI PA 14	0A 153C 153D)	ss disturbed of problematic.
Dark Surf	face (S7) (LR	R Ρ. S. T. I	J)		Igne Louin	50115 (1 20)		<i><i>I</i>, 1550, 1550)</i>	
		, -, ,	- /						
Restrictive L	ayer (if obs	erved):							
Туре:									
Depth (inc	hes):							Hydric Soil Present	? Yes 🔾 No 🖲
Remarks:									
Hydric soils y	vere not ob	served.							
,		oon oour							

Project/Site: Bridge Replacements-Little Pee Dee River on S-45	City/County: Dillon	/Dillon	Sampling Date:	28-Feb-18
Applicant/Owner: SCDOT	States	: Sam	pling Point: DP 3- Wet	
Investigator(s): Chris Handley, S&ME	Section, Township	, Range: S	T R	
Landform (hillslope, terrace, etc.): Floodplain	Local relief (concave	e, convex, none): fla	t Slope:	0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR P Lat	- 34.3334	Long.: -79.32	 35	tum: NAD 83
Soil Map Unit Name: Johnston-Rutlege Association (JR)		<u></u>	classification: PFO1C	
Are climatic/hydrologic conditions on the site typical for this time of	vear? Yes 🖲	No (If no. ex	plain in Remarks.)	
Are Vegetation Soil Soil or the the typical for this singlific	antly disturbed?	re "Normal Circumsta	ances" present? Yes	• _{No} O
	hanna hIamatia?			
SUMMARY OF FINDINGS - Attach site map showing	sampling point loc	ations, transects	y answers in Remarks.) , important feature	s, etc.
Hydrophytic Vegetation Present? Yes				
Hvdric Soil Present? Yes No	Is the Samp			
Wetland Hydrology Present? Yes	within a We	itland?		
Remarks:				
Data point taken on the northern side of Wetland 6.				
HYDROLOGY				
Wetland Hydrology Indicators:		Secondar	v Indicators (minimum of 2 r	equired)
Primary Indicators (minimum of one required; check all that appl	iy)		ce Soil Cracks (B6)	
Surface Water (A1)	(B13)	Spars	ely Vegetated Concave Surfa	nce (B8)
High Water Table (A2)	(B15) (LRR U)	Draina	age Patterns (B10)	
Saturation (A3)	de Odor (C1)	Moss	Trim Lines (B16)	
Water Marks (B1) Oxidized Rhizo	spheres along Living Roots	(C3) Dry Se	eason Water Table (C2)	
Sediment Deposits (B2)	educed Iron (C4)	Crayfi	sh Burrows (C8)	
Drift Deposits (B3)	eduction in Tilled Soils (C6)	Satura	ation Visible on Aerial Image	ry (C9)
Algal Mat or Crust (B4)	face (C7)	✓ Geom	orphic Position (D2)	
Iron Deposits (B5)	in Remarks)	Shallo	w Aquitard (D3)	
Inundation Visible on Aerial Imagery (B/)		FAC-N	leutral Test (D5)	
Water-Stained Leaves (B9)		Sphag	inum moss (D8) (LRR T, U)	
Field Observations:				
Surface Water Present? Tes O INO O Deptri (Inche	s):			
Water Table Present? Yes ○ No ● Depth (inche	s): w	etland Hydrology Pre	sent? Yes 🖲 No	0
(includes capillary fringe) Yes No Depth (inche	s): <u>1</u>			-
Describe Recorded Data (stream gauge, monitoring well, aerial pl	notos, previous inspectio	ons), if available:		
Remarks:				
Wetland hydrology indicators were observed.				

		Dominant		Sampling Point: DP 3- Wet
	Absolute	_ Species? Rel.Strat.	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30-ft.</u>)	% Cover	Cover	Status	Number of Dominant Species
1. Acer rubrum	30	✓ 50.0%	FAC	That are OBL, FACW, or FAC:
2 Liquidambar styraciflua	30	✓ 50.0%	FAC	
3	0	0.0%		Total Number of Dominant Species Across All Strata: 5 (B)
1	0	0.0%		
5	0	0.0%		Percent of dominant Species
5	0	0.0%		That Are OBL, FACW, or FAC: 100.0% (A/B)
7	0	0.0%		Prevalence Index worksheet:
3	0	0.0%		Total % Cover of: Multiply by:
50% of Total Cover: 30 20% of Total Cover: 12	60	= Total Cove	r	OBL species $0 \times 1 = 0$
Sapling or Sapling/Shrub Stratum (Plot size: 30-ft.)			FACW species $0 \times 2 = 0$
Acer rubrum	10	✓ 100.0%	FAC	FAC species $90 \times 3 = 270$
	0	0.0%		FACU species $0 \times 4 = 0$
3	0	0.0%		$\frac{1}{1} = \frac{1}{1}$
 l	0	0.0%		$\frac{1}{2} = \frac{1}{2} = \frac{1}$
5	0	0.0%		$\begin{bmatrix} \text{column lotals:} & \underline{90} & \text{(A)} & \underline{270} & \text{(B)} \end{bmatrix}$
	0	0.0%		Prevalence Index = $B/A = 3.000$
7.	0	0.0%		Hydrophytic Vegetation Indicators:
3	0	0.0%		
50% of Total Cover: 5 20% of Total Cover: 2	10	= Total Cove	r	2. Deminance Test is 5 50%
			•	
Shrub Stratum (Plot size: <u>30-ft.</u>)	10	100.00/	FAC	▼ 3 - Prevalence Index is $\leq 3.0^{+}$
		▼ <u>100.0%</u>	FAC	Problematic Hydrophytic Vegetation + (Explain)
·				¹ Indicators of hydric coil and wetland hydrology must
3				be present, unless disturbed or problematic.
ł	0			Definition of Vegetation Strate:
				Definition of vegetation strata:
D	0			I ree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in
50% of Total Cover: 5 20% of Total Cover: 2	10	= Total Cove	r	(7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot size: <u>30-ft.</u>)				
1. Smilax rotundifolia	10	✔ 100.0%	FAC	approximately 20 ft (6 m) or more in height and less
2	0	0.0%		than 3 in. (7.6 cm) DBH.
3	0	0.0%		
4	0	0.0%		Sapling/Shrub - Woody plants, excluding vines, less
5	0	0.0%		than 3 in. DBH and greater than 3.28 ft (1m) tall.
6	0	0.0%		Shrub - Woody plants, excluding woody vines,
7	0	0.0%		approximately 3 to 20 ft (1 to 6 m) in height.
8	0	0.0%		
9	0	0.0%		Herb - All herbaceous (non-woody) plants, including
10	0	0.0%		plants, except woody vines, less than approximately
l1	0	0.0%		3 ft (1 m) in height.
12	0	0.0%		
50% of Total Cover: 20% of Total Cover:	10	= Total Cove	r	Woody vine - All woody vines, regardless of height.
Woody Vine Stratum (Plot size: 30-ft.)				
1	0	0.0%		
))		0.0%	-	
3	 	0.0%		
1		0.0%		
5		0.0%	-	Hydrophytic
50% of Total Cover: 0 20% of Total Cover: 0		= Total Covo	r	Vegetation Present? Yes ● No ○
Remarks: (If observed, list morphological adaptations below). Hydrophytic vegetation was observed.	-			

Sampling Point: DP 3- Wet

Profile Desc	ription: (De	scribe to	the depth	needed to	document	t the indic	ator or co	onfirm the	absence of indicators	5.)
Depth		Matrix			Re	dox Featu	ires		_	
(inches)	Color	(moist)		Color ((moist)	%	Tvpe	Loc ²	Texture	Remarks
1-3	10YR	6/3	100					-	Sand	
3-20	10YR	4/2	95	10YR	5/8	5	С	М	Sandy Loam	
	8	-	-				-			
		-	-					P	<u> </u>	· · · ·
									<u></u>	
		-								
							_			
							_			
1 Type: C-Con	centration [)_Denletio	n PM-Red	uced Matrix		ed or Coate	d Sand Gr		ation: PI - Pore Lining I	M-Matrix
Hydric Soil 1	Indicators:	Depiction			cj=covert				Tu diastans fau D	
	A1)				walue Bel	ow Surface	(S8) (I DD	S T II)	Indicators for Pi	roblematic Hydric Soils ⁵ :
	nedon (Δ 2)				n Dark Sur	face (SO) (3, 1, 0) N	1 cm Muck (A	9) (LRR O)
	fic (A3))	2 cm Muck (A	10) (LRR S)
	nc (75) Sulfida (84)	,			атту миску	Maturius (F	1) (LKK U)		Reduced Vert	ic (F18) (outside MLRA 150A,B)
)			amy Gleyed		2)		Piedmont Floo	odplain Soils (F19) (LRR P, S, T)
	Layers (AS)	ודססט	n	I De	pleted Mat	rix (F3)			Anomalous Br	ight Loamy Soils (F20) (MLRA 153B)
	boules (Ab) (I	LKK P, I, U	<i>り</i> エ い		dox Dark S	urface (F6))		Red Parent M	aterial (TF2)
			, 1, 0)		pleted Darl	k Surface (F7)		Very Shallow	Dark Surface (TF12)
					dox Depres	ssions (F8)			Other (Explain	n in Remarks)
	K (A9) (LKK	P, I) Cumfana (At		∐ Ma	rl (F10) (Ll	RR U)				
	Below Dark	Surrace (A.	11)		pleted Och	ric (F11) (N	4LRA 151)			
	K Surface (A	12)	1504)	L Iro	n-Mangane	ese Masses	(F12) (LRI	R O, P, T)		
	III'IE REDOX (A	416) (MLRA	A 150A)	Um	bric Surfac	ce (F13) (L	RR P, T, U)			
	ICK Mineral (51) (LRR U	, 5)		lta Ochric ((F17) (MLR	A 151)		³ Indicat	ors of hydrophytic vegetation and
Sandy Gle	eyed Matrix ((S4)			duced Vert	ic (F18) (M	LRA 150A,	150B)	wetla	nd hydrology must be present,
Sandy Re	dox (S5)			Pie	dmont Floo	odplain Soi	ls (F19) (M	LRA 149A)	un	less disturbed or problematic.
	Matrix (S6)				omalous Br	right Loamy	/ Soils (F20) (MLRA 14	9A, 153C, 153D)	
Dark Surf	ace (S7) (LR	R P, S, I, U	J)							
Restrictive L	ayer (if obs	served):								
Туре:									Ubuduia Cail Duasan	
Depth (inc	hes):								Hydric Soll Presen	
Remarks:										
Hydric soils w	vere observ	/ed.								

Project/Site: Bridge Replacements-Little Pee Dee River on S-45	City/County:	Dillon/Dillon		Sampling Date:	28-Feb-18
Applicant/Owner: SCDOT	S	tate: SC	Sampling Po	int: DP 3 - Up	
Investigator(s): _Chris Handley, S&ME	Section, Town	ship, Range: S	т	R	
Landform (hillslope, terrace, etc.): Hillslope	Local relief (cor	icave, convex, none	e): concave	Slope:	1.0 % / 0.6 °
Subregion (LRR or MLRA): LRR P Lat.:	34.3335	Long.:	-79.3235	Dat	um: NAD 83
Soil Map Unit Name: Johnston-Rutlege Association (JR)			NWI classifi	cation: PFO1C	
Are climatic/hvdrologic conditions on the site typical for this time of vo	ear? Yes		no, explain in	Remarks.)	
Are Vegetation Soil or Hydrology significant	ntly disturbed?	Are "Normal Cir	cumstances" n	resent? Yes	🖻 No 🔿
	nrohlomatic?	(If needed over		resent.	
SUMMARY OF FINDINGS - Attach site map showing sa	ampling point	locations, tran	sects, impo	ortant features	, etc.
Hydrophytic Vegetation Present? Yes O No O					
Hydric Soil Present? Yes O No 🔍	Is the s	Sampled Area			
Wetland Hydrology Present? Yes \bigcirc No \bigcirc	within	a Wetland? Ye	S U NO U		
Remarks:					
Data point taken in upland area on hillslope, adjacent to S-45.					
HYDROLOGY					
Wetland Hydrology Indicators:		Se	econdary Indicato	ors (minimum of 2 re-	quired)
Primary Indicators (minimum of one required; check all that apply))		Surface Soil Cr	acks (B6)	
Surface Water (A1)	313)		Sparsely Veget	ated Concave Surfac	e (B8)
High Water Table (A2)	15) (LRR U)		Drainage Patte	rns (B10)	
Saturation (A3)	e Odor (C1)] Moss Trim Line	es (B16)	
Water Marks (B1)	oheres along Living F	Roots (C3)	Dry Season Wa	ater Table (C2)	
Sediment Deposits (B2)	uced Iron (C4)		Crayfish Burro	<i>w</i> s (C8)	
Drift Deposits (B3)	uction in Tilled Soils	(C6)	Saturation Visi	ble on Aerial Imagery	/ (C9)
Algal Mat or Crust (B4)	ce (C7)		Geomorphic Po	osition (D2)	
Iron Deposits (B5) Other (Explain in	ו Remarks)		Shallow Aquita	rd (D3)	
Inundation Visible on Aerial Imagery (B7)			FAC-Neutral Te	est (D5)	
Water-Stained Leaves (B9)			Sphagnum mo	ss (D8) (LRR T, U)	
Field Observations:					
Surface Water Present? Yes \bigcirc No $ullet$ Depth (inches)	<u>. </u>				
Water Table Present? Yes O No O Depth (inches)):			~ ~ ~	
Saturation Present? Vec No Depth (inchec)	·	Wetland Hydrolo	gy Present?	Yes \bigcirc No \bigcirc	●
(includes capillary fringe) Tes O NO O Deput (inclus)	·		1		
Describe Recorded Data (stream gauge, monitoring well, aerial pho	itos, previous insp	ections), if availabl	e:		
1					
Remarks:					
Wetland hydrology criteria not met.					

		Dominant		Sampling Point: DP 3 - Up
	Absolute	_ Species? _ Rel.Strat.	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30-ft.</u>)	% Cover	Cover	Status	Number of Deminant Species
1	0	0.0%		That are OBL, FACW, or FAC: 1 (A)
2.	0	0.0%		
3.	0	0.0%		Total Number of Dominant
Δ	0	0.0%		Species Across Air Strata: <u>Z</u> (B)
5				Percent of dominant Species
6				That Are OBL, FACW, or FAC:
7				December of Technologies in the
0				Prevalence Index worksneet:
8	0	0.0%		I otal % Cover of: Multiply by:
50% of Total Cover: 0 20% of Total Cover: 0	=	= Total Cover		OBL species $0 \times 1 = 0$
Sapling or Sapling/Shrub Stratum (Plot size: <u>30-ft.</u>)	_		FACW species $0 \times 2 = 0$
1	0	0.0%		FAC species 25 x 3 = 75
2	0	0.0%		FACU species 15 x 4 = 60
3	0	0.0%		UPL species $0 \times 5 = 0$
4	0	0.0%		$\begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 $
5.	0	0.0%		
6	0	0.0%		Prevalence Index = $B/A = 3.375$
7	0	0.0%		Hydrophytic Vegetation Indicators:
Q				
0				1 - Rapid Test for Hydrophytic Vegetation
50% of Total Cover: 0 20% of Total Cover: 0		= Total Cover		2 - Dominance Test is > 50%
Shrub Stratum (Plot size: <u>30-ft.</u>)				□ 3 - Prevalence Index is \leq 3.0 ¹
1	0	0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)
2.	0	0.0%		
3	0	0.0%		¹ Indicators of hydric soil and wetland hydrology must
Δ	0	0.0%		be present, unless disturbed or problematic.
т 5				Definition of Vegetation Strata:
6.				Tree - Woody plants, excluding woody vines
C				approximately 20 ft (6 m) or more in height and 3 in.
				(7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot size: <u>30-ft.</u>)				
1. Dichanthelium acuminatum	20	✓ 50.0%	FAC	approximately 20 ft (6 m) or more in height and less
2. Eupatorium capillifolium	10	✓ 25.0%	FACU	than 3 in. (7.6 cm) DBH.
3. Liquidambar styraciflua	5	12.5%	FAC	
4. Hypericum perforatum	5	12.5%	FACU	Sapling/Shrub - Woody plants, excluding vines, less
5.	0	0.0%		than 3 in. DBH and greater than 3.28 ft (1m) tall.
6	0	0.0%		
7	0	0.0%		approximately 3 to 20 ft (1 to 6 m) in height
8	0	0.0%		
0				Herb - All herbaceous (non-woody) plants, including
9				herbaceous vines, regardless of size, and woody
10				plants, except woody vines, less than approximately
11	0			s it (1 m) in neight.
12	0	0.0%		
50% of Total Cover: 20 20% of Total Cover: 8	40 =	= Total Cover		woody vine - All woody vines, regardless of height.
Woody Vine Stratum (Plot size: <u>30-ft.</u>)				
1.	0	0.0%		
2	0	0.0%		
3	0	0.0%		
Λ	— <u> </u>			
т Б				Hydrophytic
		<u>0.0%</u>		Vegetation Precent? Yes No •
50% of Lotal Cover: 0 20% of Total Cover: 0	0 =	= Total Cover		
Remarks: (If observed, list morphological adaptations below).				
Hydrophytic vegetation was not observed.				
*Indicator suffix = National status or professional decision assigned because F	Regional status	not defined by F\	VS.	

Profile Description: (Describe to the o	lepth needed to document the indicator or confirm	m the absence of indicators.)
Depth Matrix (inches) Color (moist)	<u> </u>	Loc ² Texture Remarks
1-20 10YR 5/4 10)	Sand
Type: C=Concentration, D=Depletion, RM	=Reduced Matrix. CS=Covered or Coated Sand Grains	² Location: PL=Pore Lining, M=Matrix
Hydric Soil Indicators:		Indicators for Problematic Hydric Soils ³ :
 Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) 5 cm Mucky Mineral (A7) (LRR P, T, U) 5 cm Mucky Mineral (A7) (LRR P, T, U) 1 cm Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150) Sandy Muck Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) 	 Polyvalue Below Surface (S8) (LRR S, T, Thin Dark Surface (S9) (LRR S, T, U) Loamy Mucky Mineral (F1) (LRR O) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Marl (F10) (LRR U) Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, I Umbric Surface (F13) (LRR P, T, U) Delta Ochric (F17) (MLRA 151) Reduced Vertic (F18) (MLRA 150A, 1506 Piedmont Floodplain Soils (F19) (MLRA 150) 	, U) 1 cm Muck (A9) (LRR O) 2 cm Muck (A10) (LRR S) Reduced Vertic (F18) (outside MLRA 150A,B) Piedmont Floodplain Soils (F19) (LRR P, S, T) Anomalous Bright Loamy Soils (F20) (MLRA 153B) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) P, T) B) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. LRA 149A, 153C, 153D)
estrictive Layer (if observed):		
Depth (inches):		Hydric Soil Present? Yes \bigcirc No $oldsymbol{igen}$
Remarks:		

Project/Site: Bridge Replacements - Little Pee Dee River on S-45	City/County:	Dillon/Dillon		Sampling Date:	28-Feb-18
Applicant/Owner: SCDOT	S	tate:	Sampling Po	oint: DP 4 - Wet	
Investigator(s): Chris Daves, P.W.S.	Section, Town	ship, Range: S	т	R	
Landform (hillslope, terrace, etc.): Hillside	Local relief (con	cave, convex, none	e): concave	Slope: 0	0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR P La		Long.:	-79.3271	Datı	.m: NAD 83
Soil Man Unit Name: Paxville Loam (Pb)			NWI classif	ication: PF01C	
Are climatic / hydrologic conditions on the site typical for this time o	of year? Yes		no evolain in	Pemarks)	
Are Venetation Soil or Hydrology signifi	cantly disturbed?	Are "Normal Cir	cumstances" r	recent? Yes	$N_{\rm No}$
	ulle mechlemetic2				
SUMMARY OF FINDINGS - Attach site map showing	sampling point	lif needed, expl	sects, impo	ortant features,	, etc.
Hydrophytic Vegetation Present? Yes • No					
Hydric Soil Present? Yes O No 🖲	Is the S	Sampled Area			
Wetland Hydrology Present? Yes \bigcirc No \bigcirc	within a	a Wetland? Ye	$s \cup No \circledast$		
Remarks:					
Upland DP taken on small slope west of Wetland 3.					
HYDROLOGY					
Wetland Hydrology Indicators:		Se	condary Indicat	ors (minimum of 2 rec	uired)
Primary Indicators (minimum of one required; check all that app	ply)		Surface Soil C	racks (B6)	· · · · · ·
Surface Water (A1)	a (B13)		Sparsely Vege	tated Concave Surface	e (B8)
High Water Table (A2)	s (B15) (LRR U)		Drainage Patte	erns (B10)	
Saturation (A3)	lfide Odor (C1)		Moss Trim Lin	es (B16)	
Water Marks (B1) Oxidized Rhiz	zospheres along Living R	loots (C3)	Dry Season W	ater Table (C2)	
Sediment Deposits (B2)	Reduced Iron (C4)		Crayfish Burro	ws (C8)	
Drift Deposits (B3)	Reduction in Tilled Soils	(C6)	Saturation Visi	ble on Aerial Imagery	(C9)
Algal Mat or Crust (B4)	urface (C7)		Geomorphic P	osition (D2)	
Iron Deposits (B5)	in in Remarks)		Shallow Aquita	ard (D3)	
Inundation Visible on Aerial Imagery (B7)			FAC-Neutral T	est (D5)	
Water-Stained Leaves (B9)			Sphagnum mo	ss (D8) (LRR T, U)	
Field Observations:					
Surface Water Present? Yes ○ No ● Depth (inch	ies):				
Water Table Present? Yes \bigcirc No $oldsymbol{igodol}$ Depth (inch	1es):				
Saturation Present? Yes No Depth (inch	ies):	Wetland Hydrolo	gy Present?	$Yes \cup No \bullet$	9
(includes capillary fringe)	photos previous insp	ections) if availabl	0'		
Describe Recorded Data (stream gauge, monitoring weil, aenai p		ections), il availabi	с.		
Remarks:					
Wetland hydrology not observed.					

Percent of the second	Indicator FAC FAC	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: 6 (A) Total Number of Dominant Species Across All Strata: 7 (B) Percent of dominant Species That Are OBL, FACW, or FAC: 85.7% (A/B) Prevalence Index worksheet:
Cover 50.0% 50.0% 0.0	Status FAC FAC FAC FAC FAC FACW FACW FAC FAC FAC	Number of Dominant Species 6 (A) Total Number of Dominant 7 (B) Percent of dominant Species 7 (B) Percent of dominant Species 85.7% (A/B) Prevalence Index worksheet: 85.7% (A/B) Total % Cover of: Multiply by: 0 OBL species 0 x 1 = 0 FACW species 5 x 2 = 10 FAC species 75 x 3 = 225 FACU species 5 x 4 = 20 UPL species 0 x 5 = 0 Column Totals: 85 (A) 255 (B) Prevalence Index = B/A = 3.000 3.000 1 Rapid Test for Hydrophytic Vegetation ✓ 2 - Dominance Test is > 50% 3 - Prevalence Index is ≤3.0 ¹ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definition of Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. 1
50.0% 50.0% 0.0%	FAC FAC FAC FACW FACW FAC FAC FAC	That are OBL, FACW, or FAC:6(A)Total Number of Dominant Species Across All Strata:7(B)Percent of dominant Species That Are OBL, FACW, or FAC:85.7%(A/B)Prevalence Index worksheet: 7 (A/B)Total % Cover of:Multiply by:0OBL species0x 1 =0FACW species5x 2 =10FAC species75x 3 =225FACU species5x 4 =20UPL species0x 5 =0Column Totals:85(A)255Mydrophytic Vegetation Indicators:1 - Rapid Test for Hydrophytic VegetationImage: Index of hydrophytic Vegetation Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.Definition of Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
50.0% 0.0%	FAC	Total Number of Dominant Species Across All Strata:7(B)Percent of dominant Species That Are OBL, FACW, or FAC: 85.7% (A/B)Prevalence Index worksheet: Total % Cover of:Multiply by: 0BL species0X 1 =0FACW species5X 2 =Total % Cover of:Multiply by: 0BL species0FACW species5X 2 =10FACW species5X 4 =20UPL species0x 5 =0Column Totals:85(A)255Column Totals:85(A)255Mydrophytic Vegetation Indicators:1Rapid Test for Hydrophytic VegetationImage: Start
0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	FACW	Total Number of Dominant Species Across All Strata:7(B)Percent of dominant Species That Are OBL, FACW, or FAC:85.7%(A/B)Prevalence Index worksheet:Total % Cover of:Multiply by:OBL species0x 1 =0FACW species5x 2 =10FAC species75x 3 =225FACU species5x 4 =20UPL species0x 5 =0Column Totals:85(A)255Prevalence Index = B/A =3.000Hydrophytic Vegetation Indicators:11 - Rapid Test for Hydrophytic VegetationI2 - Dominance Test is > 50%I3 - Prevalence Index is $\leq 3.0^{1}$ Problematic Hydrophytic Vegetation 1 (Explain)11 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.Definition of Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	FACW	Percent of dominant Species That Are OBL, FACW, or FAC: 85.7% (A/B)Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 10 FACW speciesFAC species 5 x 2 = 10 FAC species 75 x 3 = 225 225 FACU species 5 x 4 = 20 0 x 5 = 0 Column Totals: 85 (A) 255(B) (B) 255Prevalence Index = $B/A =$ 3.000 3.000 Hydrophytic Vegetation Indicators: \checkmark 2 - Dominance Test is > 50% \checkmark 3 - Prevalence Index is $\leq 3.0^{-1}$ \bigcirc Problematic Hydrophytic Vegetation $^{-1}$ (Explain) $^{-1}$ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.Definition of Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
0.0% 0.0% 0.0% 0tal Cover 100.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.	FACW	Percent of dominant Species That Are OBL, FACW, or FAC: 85.7% (A/B)Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species0x 1 =0FACW species5x 2 =10FACW species75x 3 =225FACU species5x 4 =20UPL species0x 5 =0Column Totals:85(A)255Prevalence Index = B/A =3.000Hydrophytic Vegetation Indicators:1 - Rapid Test for Hydrophytic VegetationI 2 - Dominance Test is > 50%I 3 - Prevalence Index is $\leq 3.0^{-1}$ Problematic Hydrophytic Vegetation 1 (Explain)1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.Definition of Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	FACW	That Are OBL, FACW, or FAC: 85.7% (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 5 x 2 = 10 FAC species 75 x 3 = 225 FACU species 5 x 4 = 20 UPL species 0 x 5 = 0 Column Totals: 85 (A) 255 (B) Prevalence Index = B/A = 3.000 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is > 50% 3 - Prevalence Index is $\leq 3.0^{1}$ Problematic Hydrophytic Vegetation 1 (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definition of Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	FACW	Prevalence Index worksheet:Total % Cover of:Multiply by:OBL species0x 1 =0FACW species5x 2 =10FAC species75x 3 =225FACU species5x 4 =20UPL species0x 5 =0x 5 =0Column Totals:85(A)255(B)Prevalence Index = B/A =3.000Hydrophytic Vegetation Indicators:1 - Rapid Test for Hydrophytic Vegetation✓ 2 - Dominance Test is > 50%✓ 3 - Prevalence Index is ≤3.0 1Problematic Hydrophytic Vegetation 1 (Explain)1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.Definition of Vegetation Strata:Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
0.0% otal Cover 100.0% 0.0%	FACW	Total % Cover of:Multiply by:OBL species0x 1 =0FACw species5x 2 =10FAC species75x 3 =225FACU species5x 4 =20UPL species0x 5 =0Column Totals:85(A)255Prevalence Index = B/A =3.000Hydrophytic Vegetation Indicators:11 - Rapid Test for Hydrophytic Vegetation
100.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0	FACW	OBL species0x 10OBL species0x 1 $=$ 0FACW species5x 2 $=$ 10FAC species75x 3 $=$ 225FACU species5x 4 $=$ 20UPL species0x 5 $=$ 0column Totals:85(A)255(B)Prevalence Index = B/A =3.0003.000Hydrophytic Vegetation Indicators:1- Rapid Test for Hydrophytic Vegetation✓2 - Dominance Test is > 50%✓✓3 - Prevalence Index is $\leq 3.0^{-1}$ -Problematic Hydrophytic Vegetation 1 (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.Definition of Vegetation Strata:Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
100.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0	FAC	FACW species 5 $x \ 2 =$ 10 FAC species 75 $x \ 3 =$ 225 FACU species 5 $x \ 4 =$ 20 UPL species 0 $x \ 5 =$ 0 Column Totals: 85 (A) 255 Prevalence Index = B/A = 3.000 Hydrophytic Vegetation Indicators:1 - Rapid Test for Hydrophytic Vegetation \checkmark 2 - Dominance Test is > 50% \checkmark 3 - Prevalence Index is $\leq 3.0^{-1}$ Problematic Hydrophytic Vegetation $^{-1}$ (Explain) $^{-1}$ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.Definition of Vegetation Strata:Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
100.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0	FACW	FAC species 75 x 3 = 225 FACU species 5 x 4 = 20 UPL species 0 x 5 = 0 column Totals: 85 (A) 255 (B)Prevalence Index = B/A = 3.000 Hydrophytic Vegetation Indicators:1 - Rapid Test for Hydrophytic Vegetation
0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%		 FACU species <u>5</u> x 4 = <u>20</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>85</u> (A) <u>255</u> (B) Prevalence Index = B/A = <u>3.000</u> Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is > 50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definition of Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%		PACO specters x 4 = UPL species 0 x 5 = 0 column Totals: 85 (A) 255 (B) Prevalence Index = B/A = 3.000 Hydrophytic Vegetation Indicators: □ 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is > 50% ✓ 3 - Prevalence Index is ≤3.0 ¹ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 20.0% 0.0%	FAC	UPL spectes x S = Column Totals: 85 (A) 255 (B) Prevalence Index = B/A = 3.000 Hydrophytic Vegetation Indicators: □ 1 - Rapid Test for Hydrophytic Vegetation ✓ 2 - Dominance Test is > 50% ✓ 2 - Dominance Test is > 50% ✓ 3 - Prevalence Index is ≤3.0 1 □ Problematic Hydrophytic Vegetation 1 (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definition of Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 20.0% 0.0%		Column Totals: 85 (A) 255 (B) Prevalence Index = B/A = 3.000 Hydrophytic Vegetation Indicators: □ 1 - Rapid Test for Hydrophytic Vegetation ✓ 2 - Dominance Test is > 50% ✓ 3 - Prevalence Index is ≤3.0 ¹ □ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definition of Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
0.0% 0.0% 0.0% 0.0% 0.0% 20.0% 0.0% 0.0%		Prevalence Index = B/A =
0.0% 0.0% 0tal Cover 80.0% 20.0% 0.0% 0.0% 0.0% 0.0% 0.0%	FAC	Hydrophytic Vegetation Indicators: □ 1 - Rapid Test for Hydrophytic Vegetation ✓ 2 - Dominance Test is > 50% ✓ 3 - Prevalence Index is ≤3.0 ¹ □ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definition of Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
0.0% 0.0% 0tal Cover 80.0% 20.0% 0.0% 0.0% 0.0% 0.0% 0.0%	FAC	1 - Rapid Test for Hydrophytic Vegetation ✓ 2 - Dominance Test is > 50% ✓ 3 - Prevalence Index is ≤3.0 ¹ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definition of Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
0.0% btal Cover 80.0% 20.0% 0.0% 0.0% 0.0% 0.0% btal Cover	FAC	□ 1 - Rapid Test for Hydrophytic Vegetation ✓ 2 - Dominance Test is > 50% ✓ 3 - Prevalence Index is ≤3.0 ¹ □ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definition of Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
80.0% 20.0% 0.0% 0.0% 0.0% 0.0% 0.0%	FAC	 ✓ 2 - Dominance Test is > 50% ✓ 3 - Prevalence Index is ≤3.0 ¹ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definition of Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
80.0% 20.0% 0.0% 0.0% 0.0% 0.0% otal Cover	_FAC _FAC	 ✓ 3 - Prevalence Index is ≤3.0 ¹ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definition of Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
80.0% 20.0% 0.0% 0.0% 0.0% 0.0% otal Cover	FAC FAC	 Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definition of Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
20.0% 0.0% 0.0% 0.0% otal Cover		 ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definition of Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
0.0% 0.0% 0.0% 0.0% otal Cover		 ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definition of Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
0.0% 0.0% 0.0% otal Cover		Definition of Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
0.0% 0.0% otal Cover		Definition of Vegetation Strata: Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
0.0% otal Cover		Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
otal Cover		approximately 20 ft (6 m) or more in height and 3 in.
		(7.6 cm) or larger in diameter at breast beight (DBH)
100.0%	FACU	Sapling - Woody plants, excluding woody vines,
0.0%		approximately 20 ft (6 m) or more in height and less
0.0%		
0.0%		Sapling/Shrub - Woody plants, excluding vines, less
0.0%		than 3 in. DBH and greater than 3.28 ft (1m) tall.
0.0%		
0.0%		Shrub - Woody plants, excluding woody vines,
0.0%		
0.0%		Herb - All herbaceous (non-woody) plants, including
0.0%		herbaceous vines, regardless of size, and woody
0.0%		plants, except woody vines, less than approximately
0.0%		3 ft (1 m) in height.
0.0%		Weedy vine All weedy vince regardless of height
otal Cover		woody vine - All woody vines, regardless of height.
100.0%	FAC	
0.0%		
0.0%		
0.0%		
0.0%		Hydrophytic
otal Cover		Present? Yes I No
	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	0.0% 0.0%

Sampling Point: DP 4 - Wet

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth Matrix			Re	dox Featu	res		-				
(inches)	(inches) Color (moist) %		%	Color (moist)	%	Tvpe ¹	Loc ²	Texture	Remarks		
0-4	10YR	4/2	100					Loamy Sand	redox		
4-8	10YR	4/3	100					Loamy Sand			
8-20	10YR	5/6	100					Loamy Sand			
	-							-			
	-	-		p				-			
								·			
								·			
¹ Type: C=Cond	centration. D	=Depletio	n. RM=Redu	uced Matrix, CS=Covere	d or Coate	d Sand Grai	ns ² Loca	tion: PL=Pore Lining. N	1=Matrix		
Hydric Soil I	indicators:			_				Indicators for Pr	oblematic Hydric Soils ³ :		
	A1)			Polyvalue Belo	ow Surface	(S8) (LRR S	S, T, U)	1 cm Muck (A	9) (LRR O)		
Histic Epip	pedon (A2)			Thin Dark Sur	face (S9) (I	LRR S, T, U)	2 cm Muck (A10) (LRR S)			
Black Hist	ic (A3)			Loamy Mucky	Mineral (F	1) (LRR O)		Reduced Vertic (F18) (outside MLRA 150A,B)			
Hydrogen	Sulfide (A4)			Loamy Gleyed	l Matrix (F2	2)		Piedmont Floo	dplain Soils (F19) (LRR P, S, T)		
Stratified	Layers (A5)			Depleted Mat	rix (F3)			Anomalous Bri	ight Loamy Soils (F20) (MLRA 153B)		
Organic B	odies (A6) (L	.RR P, T, l	J)	Redox Dark S	urface (F6)			Red Parent Ma	aterial (TF2)		
5 cm Muc	ky Mineral (A	47) (LRR P	Ρ, Τ, U)	Depleted Dark	s Surface (F	-7)		Very Shallow Dark Surface (TF12)			
Muck Pres	sence (A8) (L	.RR U)		Redox Depres	sions (F8)			Other (Explain	in Remarks)		
1 cm Muc	k (A9) (LRR	P, T)		🗌 Marl (F10) (LF	RR U)						
Depleted	Below Dark S	Surface (A	11)	Depleted Och	ric (F11) (M	1LRA 151)					
Thick Darl	k Surface (A	12)		Iron-Mangane	ese Masses	(F12) (LRR	O, P, T)				
Coast Prai	irie Redox (A	16) (MLR/	A 150A)	Umbric Surfac	e (F13) (LF	RR P, T, U)					
Sandy Mu	ck Mineral (S	51) (LRR C), S)	🗌 Delta Ochric (F17) (MLRA	A 151)		3. Standard to the description of the description of the standard terms of			
Sandy Gle	eyed Matrix (S	S4)		Reduced Vert	ic (F18) (M	LRA 150A, :	L50B)	"Indicators of hydrophytic vegetation and wetland hydrology must be present			
Sandy Red	dox (S5)			Piedmont Floo	dplain Soil	s (F19) (ML	RA 149A)	unless disturbed or problematic.			
Stripped N	Matrix (S6)			Anomalous Br	ight Loamy	Soils (F20)	(MLRA 149	9A, 153C, 153D)			
Dark Surfa	ace (S7) (LRI	R P, S, T,	U)								
Restrictive La	aver (if obs	erved):									
Type:	-,	···· , ·									
Depth (incl	hes):							Hydric Soil Present? Yes 🔾 No 🖲			
Remarks:											
Hydric coile n	ot observer	4									
Tryunc sons n											

Project/Site: Bridge Replacements - Little Pee Dee River on S-45	City/County: _D)illon/Dillon	Sa	mpling Date:	28-Feb-18	
Applicant/Owner: SCDOT	St	tate: SC	Sampling Point	DP 4 - UP		
Investigator(s): Chris Daves, P.W.S.	Section, Towns	ship, Range: S	т	R		
andform (hillslope, terrace, etc.): Hillside	Local relief (con	cave, convex, none	concave	Slope: 0.	0 % / 0.0 °	
ubregion (LRR or MLRA): LRR P La	it.: 34.3310	Long.:	-79.3271	Datu	m: NAD 83	
oil Map Unit Name: Paxville Loam (Pb)			NWI classificat	ion: PF01C		
re climatic/hydrologic conditions on the site typical for this time o	fyear? Yes	● No ○ (If	no, explain in Re	marks.)		
Are Vegetation , Soil , or Hydrology signifi	cantly disturbed?	Are "Normal Cire	cumstances" pres	ent? Yes 🔍	No \bigcirc	
Are Vegetation . Soil . or Hydrology natura	ally problematic?	(If needed, evol	ain any answers i	in Remarks)		
SUMMARY OF FINDINGS - Attach site map showing	, sampling point	locations, tran	sects, importa	ant features,	etc.	
Hydrophytic Vegetation Present? Yes No	Is the S	ampled Area				
Hydric Soil Present? Yes $oldsymbol{O}$ No $oldsymbol{O}$	15 the 5					
Wetland Hydrology Present? Yes $ullet$ No $igodoldsymbol{ imes}$	within a	Wetland?	, - 110 -			
Remarks: Wetland 3. Three parameters met.						
HYDROLOGY						
Wetland Hydrology Indicators:		Se	condary Indicators ((minimum of 2 requ	uired)	
Primary Indicators (minimum of one required; check all that app	DIY)		Surface Soil Cracks	s (B6)	(00)	
High Water Table (Δ2)	a (DIS) s (B15) (I RR II)		sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)			
Saturation (A3)	lfide Odor (C1)		Moss Trim Lines (B16)			
Water Marks (B1)	zospheres along Living R	oots (C3)	Dry Season Water	Table (C2)		
Sediment Deposits (B2)	Reduced Iron (C4)		Cravfish Burrows ((C8)		
Drift Deposits (B3)	Reduction in Tilled Soils ((C6)	Saturation Visible	on Aerial Imagery ((C9)	
Algal Mat or Crust (B4)	urface (C7)	\checkmark	Geomorphic Position (D2)			
Iron Deposits (B5) Other (Explai	n in Remarks)		Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery (B7)		\checkmark	FAC-Neutral Test ((D5)		
✓ Water-Stained Leaves (B9)			Sphagnum moss (D8) (LRR T, U)		
Field Observations:						
Surface Water Present? Yes \bigcirc No $ullet$ Depth (inch	ies):					
Water Table Present? Yes \bigcirc No $oldsymbol{igodol}$ Depth (inch	ies):					
Saturation Present? Yes No Depth (inch	ies): 10	Wetland Hydrolo	gy Present?	Yes \bullet No \bigcirc		
(includes capillary fringe) Describe Recorded Data (stream gauge monitoring well aerial r	hotos previous insp	Lections) if available	۵.			
	,					
Remarks:						
Wetland hydrology observed.						

		Do	minant		Sampling Point: DP 4 - UP		
	Absolute	_ Sp Re	l.Strat.	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: <u>30</u> ')	% Cover	. (Cover	Status	Number of Dominant Species		
Quercus phellos	20	<	100.0%	FACW	That are OBL, FACW, or FAC: (A)		
2	0		0.0%		Tabl New Area Chamber		
3	0		0.0%		Species Across All Strata: 9 (B)		
1	0		0.0%				
5	0		0.0%		Percent of dominant Species		
õ	0		0.0%		That are OBL, FACW, OF FAC:		
7	0		0.0%		Prevalence Index worksheet:		
3	0		0.0%		Total % Cover of: Multiply by:		
50% of Total Cover: 10 20% of Total Cover: 4	20	= Toi	tal Cover		OBL species <u>0</u> x 1 = <u>0</u>		
Sapling or Sapling/Shrub Stratum (Plot size: <u>30</u> ')				FACW species <u>40</u> x 2 = <u>80</u>		
Liquidambar styraciflua	15	✓_	33.3%	FAC	FAC species x 3 =285		
Acer rubrum	15	✓_	33.3%	FAC	FACU species $0 \times 4 = 0$		
Quercus nigra	15	✓	33.3%	FAC	UPL species $0 \times 5 = 0$		
L	0		0.0%		Column Totals: 135 (A) 365 (B)		
j	0		0.0%				
i	0		0.0%		Prevalence Index = $B/A = 2.704$		
•	0		0.0%		Hydrophytic Vegetation Indicators:		
l	0		0.0%		1 - Rapid Test for Hydrophytic Vegetation		
50% of Total Cover: 22.5 20% of Total Cover: 9	45	= Toi	tal Cover		\checkmark 2 - Dominance Test is > 50%		
Shruh Stratum (Plot size: 30')					\mathbf{V} 3 - Prevalence Index is <3.0 ¹		
Liquidambar styraciflua	15	\checkmark	33 3%	FAC	S - Frevalence Index is 25.0 Problematic Hydrophytic Vegetation 1 (Evaluation)		
Acer rubrum			33.3%	FAC			
Quercus nigra			33.3%	FAC	¹ Indicators of hydric soil and wetland hydrology must		
	0	\square	0.0%		be present, unless disturbed or problematic.		
·			0.0%		Definition of Vegetation Strata:		
·	0		0.0%		Tree - Woody plants, excluding woody vines.		
50% of Total Cover: 22.5 20% of Total Cover: 9	 	 = Tot	tal Cover		approximately 20 ft (6 m) or more in height and 3 in.		
					(7.6 cm) or larger in diameter at breast height (DBH).		
Herb Stratum (Plot size: <u>30'</u>)					Sapling - Woody plants, excluding woody vines		
1. Arundinaria gigantea	20		100.0%	FACW	approximately 20 ft (6 m) or more in height and less		
2	0		0.0%		than 3 in. (7.6 cm) DBH.		
3	0		0.0%		Conting/Chrub Waady plants evaluating vince loss		
4	0		0.0%		than 3 in. DBH and greater than 3.28 ft (1m) tall.		
5	0		0.0%		,		
6		<u> </u>	0.0%		Shrub - Woody plants, excluding woody vines,		
7			0.0%		approximately 3 to 20 ft (1 to 6 m) in height.		
8	0		0.0%		Herb - All berbaceous (non-woody) plants, including		
9			0.0%		herbaceous vines, regardless of size, and woody		
0			0.0%		plants, except woody vines, less than approximately $2 \text{ ft} (4 \text{ m})$ is bright		
1	0		0.0%				
Z	0	Ш_	0.0%		Woody vine - All woody vines, regardless of height		
50% of Total Cover: <u>10</u> 20% of Total Cover: <u>4</u>	20	= To	tal Cover				
Woody Vine Stratum (Plot size: 30')							
Smilax rotundifolia	5	✓	100.0%	FAC			
	0		0.0%				
	0		0.0%				
	0		0.0%				
i	0		0.0%		Hydrophytic Vegetation — — —		
50% of Total Cover: 2.5 20% of Total Cover: 1	5	= Toi	tal Cover		Present? Yes • No O		
amarke: (If observed, list morphological adaptations holew)							

Sampling Point: DP 4 - UP

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth		Matrix			Redox Featu	ires		_		
(inches)	(inches) Color (moist) %		%	Color (moist)		% Type ¹		Texture	Remarks	
0-6	10YR	4/2	95	10YR 5/	65	С	М	Sandy Loam		
6-20	10YR	4/2	95	10YR 5/	6 5	С	М	Loam		
		-								
				. <u> </u>						
				. <u> </u>						
	8									
				·			. <u>.</u>			
.				<u> </u>						
¹ Type: C=Cond	centration. D	=Depletio	n. RM=Redu	iced Matrix, CS=Co	vered or Coate	ed Sand Gr	ains ² Loca	ation: PL=Pore Lining. M	=Matrix	
Hydric Soil I	ndicators:							Indicators for Pro	blematic Hydric Soils ³ :	
	A1)			Polyvalue	Below Surface	e (S8) (LRR	S, T, U)	1 cm Muck (A9) (LRR O)	
Histic Epip	bedon (A2)			Thin Dark	Surface (S9)	(LRR S, T, I	J)	 2 cm Muck (A10) (LRR S) Reduced Vertic (F18) (outside MLRA 150A,B) 		
Black Hist	ic (A3)			Loamy Mu	cky Mineral (F	1) (LRR O				
Hydrogen	Sulfide (A4)			Loamy Gle	eyed Matrix (F	2)		Piedmont Floor	dplain Soils (F19) (LRR P, S, T)	
Stratified I	Layers (A5)			Depleted I	Matrix (F3)			Anomalous Bright Loamy Soils (F20) (MLRA 153B) Red Parent Material (TF2)		
Organic B	odies (A6) (L	.RR P, T, I	J)	Redox Da	k Surface (F6)				
5 cm Muc	ky Mineral (A	47) (LRR F	P, T, U)	Depleted I	Dark Surface (F7)		Very Shallow D	ark Surface (TF12)	
Muck Pres	sence (A8) (L	.RR U)		Redox De	pressions (F8)			Other (Explain	in Remarks)	
1 cm Muc	k (A9) (LRR	Р, Т)		Marl (F10)	(LRR U)			_ 、	,	
Depleted I	Below Dark S	Surface (A	11)	Depleted	Ochric (F11) (MLRA 151)				
Thick Dark	k Surface (A	12)		Iron-Mang	anese Masses	6 (F12) (LR	R O, P, T)			
Coast Prai	irie Redox (A	16) (MLR/	A 150A)	Umbric Su	rface (F13) (L	RR P, T, U)			
Sandy Mu	ck Mineral (S	51) (LRR C), S)	Delta Och	ric (F17) (MLR	A 151)		³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.		
Sandy Gle	yed Matrix (54)		Reduced V	/ertic (F18) (M	, 1LRA 150A,	150B)			
Sandy Red	dox (S5)			Piedmont	Floodplain Soi	ls (F19) (M	, LRA 149A)			
Stripped N	Aatrix (S6)				s Bright Loam	v Soils (F20)) (MIRA 14	9A. 153C. 153D)		
Dark Surfa	ace (S7) (LRI	R P, S, T,	U)			y 00110 (1 2 0	,, (, , _, 0, , _ ,	, 2000, 2002)		
Restrictive La	ayer (if obs	erved):								
Туре:								Hydric Soil Present? Ves 🔍 No 🔿		
Depth (incl	hes):							Tryunc Son Fresent		
Remarks:										
Hydric soils o	bserved.									

<u>Appendix C</u>

Preliminary Jurisdictional Determination Form

ATTACHMENT

PRELIMINARY JURISDICTIONAL DETERMINATION FORM

BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR PRELIMINARY JURISDICTIONAL DETERMINATION (JD): March XX, 2018

B. NAME AND ADDRESS OF PERSON REQUESTING PRELIMINARY JD:

Applicant: Mr. Chris Beckham, SCDOT 955 Park Street, Columbia, SC 29201 beckhamjc@scdot.org (803) 737-1332 Consultant: Mr. Chris Daves S&ME, Inc. 134 Suber Road Columbia, SC 29210

C. DISTRICT OFFICE, FILE NAME, AND NUMBER: Charleston District, Bridge Replacements-Little Pee Dee River on S-45: SAC 2018-XXXX

D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION: The project is located approximately half mile northeast of the intersection of SC Highway 57 and Lester Road (S-45). Project limits are located east and west of Lester Road (S-45) approximately 6.25 miles southeast of Dillon, Dillon County, South Carolina.

(USE THE ATTACHED TABLE TO DOCUMENT MULTIPLE WATERBODIES AT DIFFERENT SITES)

State: SC County/parish/borough: Dillon City: Dillon Center coordinates of site (lat/long in degree decimal format): North End: Lat. 34.3364°, Long. –79.3210° South End: Lat. 34.3295°, Long. –79.3285°. Universal Transverse Mercator: NAD83 Name of nearest waterbody: Little Pee Dee River.

E. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

Office (Desk) Determination. Date:

Field Determination. Date(s):

TABLE OF AQUATIC RESOURCES IN REVIEW AREA WHICH "MAYBE"SUBJECT TO REGULATORY JURISDICTION.

Site number	Latitude	Longitude	Estimated amount of aquatic resource in review area	Type of Aquatic Resource	Geographic Authority to which the Aquatic Resource "may be" Subject
Wetland 1	34.3359	-79.3218	1.70 ac	Wetland	Section 404
Wetland 2	34.3351	-79.3226	0.64 ac	Wetland	Section 404
Wetland 3	34.3322	-79.3257	3.42 ac	Wetland	Section 404
Wetland 4	34.3357	-79.3213	1.55 ac	Wetland	Section 404
Wetland 5	34.3343	-79.3325	0.10 ac	Wetland	Section 404
Wetland 6	34.3315	-79.3254	3.49 ac	Wetland	Section 404
Non- Wetland Water 1	34.3342	-79.3238	463 LF	Non-Wetland Water	Section 404
Non- Wetland Water 2 (Little Pee Dee River)	34.3338	-79.3235	500 LF	Non-Wetland Water	Section 404
Non- Wetland Water 3	34.3328	-79.3244	340 LF	Non-Wetland Water	Section 404

1. The Corps of Engineers believes that there may be jurisdictional waters of the United States on the subject site, and the permit applicant or other affected party who requested this preliminary JD is hereby advised of his or her option to request and obtain an approved jurisdictional determination (JD) for that site. Nevertheless, the permit applicant or other person who requested this preliminary JD has declined to exercise the option to obtain an approved JD in this instance and at this time.

2. In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "pre-construction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an approved JD for the activity, the permit applicant is hereby made aware of the following: (1) the permit applicant has elected to seek a permit authorization based on a preliminary JD, which does not make an official determination of jurisdictional waters; (2) that the applicant has the option to request an approved

JD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an approved JD could possibly result in less compensatory mitigation being required or different special conditions; (3) that the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) that the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) that undertaking any activity in reliance upon the subject permit authorization without requesting an approved JD constitutes the applicant's acceptance of the use of the preliminary JD, but that either form of JD will be processed as soon as is practicable; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a preliminary JD constitutes agreement that all wetlands and other water bodies on the site affected in any way by that activity are jurisdictional waters of the United States, and precludes any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an approved JD or a preliminary JD, that JD will be processed as soon as is practicable. Further, an approved JD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331, and that in any administrative appeal, jurisdictional issues can be raised (see 33 C.F.R. 331.5(a)(2)). If, during that administrative appeal, it becomes necessary to make an official determination whether CWA jurisdiction exists over a site, or to provide an official delineation of jurisdictional waters on the site, the Corps will provide an approved JD to accomplish that result, as soon as is practicable. This preliminary JD finds that there "may be" waters of the United States on the subject project site, and identifies all aquatic features on the site that could be affected by the proposed activity, based on the following information:

SUPPORTING DATA. Data reviewed for preliminary JD (check all that apply

- checked items should be included in case file and, where checked and requested, appropriately reference sources below):

Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: The site is depicted on a sketch prepared by S&ME, Inc. titled "Exhibit 3 - Aerial Exhibit", dated March 2, 2018. Data sheets prepared/submitted by or on behalf of the

applicant/consultant.

 \boxtimes Office concurs with data sheets/delineation report.

Office does not concur with data sheets/delineation report.

Data sheets prepared by the Corps:

Corps navigable waters' study: SAC 1977 Navigability Study.

U.S. Geological Survey Hydrologic Atlas: HA 730-G, 1990.

USGS NHD data.

USGS 8 and 12 digit HUC maps. 0304020405-06 (Bell Swamp Branch-Little Pee Dee River)

U.S. Geological Survey map(s). Cite scale & quad name:1:24,000 (USGS 7.5 Minute Topographic Quadrangle Fork, SC 1959. USGS quadrangle map depicts the site, adjacent to Lester Road (S-45) as forestland and swamp. Three Bridges are depicted along S-45 within the boundaries of the site. The Little Pee Dee River is depicted along with a secondary channel flowing under the most southern bridge.

USDA Natural Resources Conservation Service Soil Survey. Citation: Soil Sheet 23 Dillon County Soil Survey, dated 1978. Soil survey depicts the site to be underlain by the following soils: Chipley Sand (non-hydric), Fuquay Sand (FuB (non-hydric), Johnston-Rutlege Complex (Hydric), Leon Sand (Hydric), Lynn Haven Sand (Hydric), Paxville Loam (Hydric), Persanti Fine Sandy Loam (non-hydric), and Rimini Sand (non-hydric).

National wetlands inventory map(s). Cite name: USFWS NWI Data, (Fork, SC Quadrangle) depicted the following on the site: PFO1A, PFO1B, PFO1C, PFO3/1B, PFO4B (Forested Wetlands), R2UBH (Open Water/River), U14 (Transportation/Utility), U21 (Cropland/Pasture), U42P (Upland Planted Pine), and U73 (Sandy Area).

State/Local wetland inventory map(s):

FEMA/FIRM maps: Flood Zone A, 45033C0255C, Effective May 24, 2011.

100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)

Photographs: Aerial (Name & Date): World Imagery 2016, Google Earth Aerial Photographs (1994-2017), and SCDNR Dillon County Aerial Index (1999 and 2006).

or \boxtimes Other (Name & Date): Photos provided by S&ME, Inc. in PJD submittal dated March 2, 2018.

Previous determination(s). File no. and date of response letter:

Other information (please specify):

IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.

Signature and date of Regulatory Project Manager (REQUIRED) Signature and date of person requesting preliminary JD (REQUIRED, unless obtaining the signature is impracticable)