

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE GOVERNOR EUGENE A. CONTI, JR. Secretary

December 9, 2011

U. S. Army Corps of Engineers Regulatory Field Office 151 Patton Avenue Room 208 Asheville, NC 28801-5006

- ATTN: Ms. Lori Beckwith NCDOT Coordinator
- Subject: Application for Section 404 Nationwide Permit 13 for the proposed replacement of Bridge No. 75 and 76 over Right Prong Mud Creek and Left Prong Mud Creek on SR 1123 (Little River Road) in Henderson County, Federal Aid Project No. BRZ-1123 (11); Division 14; TIP No. B-4147; WBS 33496.1.1

Dear Madam:

The North Carolina Department of Transportation (NCDOT) proposes to replace Bridge No. 75, a 68-foot single-span bridge over Right Prong Mud Creek and Bridge No. 76, a 21-foot single-span bridge over Left Prong Mud Creek on Little River Road (SR 1123), with a 160-foot two-span bridge at existing location. There are 148 linear feet of permanent impacts associated with the replacement of Bridges Nos. 75 and 76 due to the use of riprap for bank stabilization.

Comments from the North Carolina Wildlife Resources Commission (NCWRC) will be required prior to authorization by the Corps of Engineers. By copy of this letter and attachments, NCDOT hereby requests NCWRC review. NCDOT requests that NCWRC forward their comments to the Corps of Engineers and the NCDOT within 30 calendar days of receipt of this application.

Please see enclosed copies of the Pre-Construction Notification (PCN) Form, Stormwater Management Plan, Rapanos Form, Permit drawings and Design plans. The Categorical Exclusion (CE) was completed on February 4, 2008. Documents were distributed shortly thereafter. Additional copies are available upon request. This project calls for a letting date of July 17, 2012 and a review date of May 29, 2012; however the let date may advance as additional funding becomes available.

A copy of this permit application and its distribution list will be posted on the NCDOT website at: http://www.ncdot.org/doh/preconstruct/pe/neu/permit.html. If you have any questions or need additional information, please call Jennifer Harrod at (919) 707-6124.

Sincerely V fush

Gregory J. Thorpe, Ph.D., Manager Project Development and Environmental Analysis

Cc: NCDOT Permit Application Standard Distribution List File





Office Use Only: Corps action ID no.

DWQ project no. ____

Form Version 1.3 Dec 10 2008

	Pre-Construction Notification (PCN) Form						
Α.	Applicant Information						
1.	Processing						
1a.	Type(s) of approval sought from Corps:	the	Section 404 Permit Sec	ction 10 Permit			
1b.	Specify Nationwide Permit (NWP) number: 1	13 33 or General Permit (G	P) number:			
1c.	Has the NWP or GP number bee	en verified b	by the Corps?	☐ Yes	🖾 No		
1d.	Type(s) of approval sought from	the DWQ ((check all that apply):				
	A01 Water Quality Certificatio	n – Regula	ar 🗌 Non-404 Jurisdictio	nal General Perm	it		
	401 Water Quality Certificatio	n – Expres	s 🗌 Riparian Buffer Autl	norization			
1e.	e. Is this notification solely for the record because written approval is not required? For the record only for DWQ 401 Certification:				only for Corps Permit:		
1f.	f. Is payment into a mitigation bank or in-lieu fee program proposed for mitigation of impacts? If so, attach the acceptance letter from mitigation bank or in-lieu fee program.				⊠ No		
1g.	Is the project located in any of Nebelow.	C's twenty	coastal counties. If yes, answer 1h	Yes	🖾 No		
1h.	Is the project located within a NC	DCM Area	a of Environmental Concern (AEC)?	🗌 Yes	🖾 No		
2.	Project Information			·			
2a.	Name of project:	Replacen Left Pron	nent of Bridge No. 75 over Right Pr g Mud Creek on Little River Road (\$	ong Mud Creek a SR 1123).	nd Bridge No. 76 over		
2b.	County:	Henderso	วท				
2c.	Nearest municipality / town:	Edneyville	е				
2d.	Subdivision name:	not applic	cable				
2e.	NCDOT only, T.I.P. or state project no:	B-4147					
3.	Owner Information	•					
3a.	Name(s) on Recorded Deed:	North Car	rolina Department of Transportation	1			
3b.	Deed Book and Page No.	not applic	cable				
3c.	. Responsible Party (for LLC if applicable): not applicable						
3d.	Street address: 1598 Mail Service Center						
3e.	City, state, zip: Raleigh, NC 27699-1598						
3f.	Telephone no.:	(919) 707	7-6124				
3g.	Fax no.:	(919) 212	2-5785				
3h.	Email address:	jwharrod@	@ncdot.gov				

4.	Applicant Information (if different from owner)				
4a.	Applicant is:	Agent Other, specify:			
4b.	Name:	not applicable			
4c.	Business name (if applicable):				
4d.	Street address:				
4e.	City, state, zip:				
4f.	Telephone no.:				
4g.	Fax no.:				
4h.	Email address:				
5.	Agent/Consultant Information	n (if applicable)			
5a.	Name:	not applicable			
5b.	Business name (if applicable):				
5c.	Street address:				
5d.	City, state, zip:				
5e.	Telephone no.:				
5f.	Fax no.:				
5g.	Email address:				

В.	B. Project Information and Prior Project History					
1.	Property Identification					
1a.	Property identification no. (tax PIN or parcel ID):	not applicable				
1b.	Site coordinates (in decimal degrees):	Latitude: 35.264779 Longitude: - 82.486154 (DD.DDDDDD) (-DD.DDDDDD)				
1c.	Property size:	0.002 acres				
2.	Surface Waters					
2a.	Name of nearest body of water (stream, river, etc.) to proposed project:	Right and Left Prong Mud Creek				
2b.	Water Quality Classification of nearest receiving water:	С				
2c.	River basin:	Broad				
3.	Project Description					
За.	Describe the existing conditions on the site and the general lan application:	nd use in the vicinity of the project at the time of this				
	Residential development along roads interspersed with agriculture; forested along stream					
3b.	List the total estimated acreage of all existing wetlands on the	property:				
	0					
3c.	List the total estimated linear feet of all existing streams (interm 159 linear feet	nittent and perennial) on the property:				
3d.	3d. Explain the purpose of the proposed project: Bridge No. 76 is structurally deficient and Bridge No. 75 is functionally obsolete. Due to the required hydraulic opening for Bridge No. 76 and the spacing between the two bridges of 15 feet, it is not feasible or practical to replace Bridge No. 76 and not replace Bridge No. 75. One structure will replace both existing bridges and result in safer and more efficient traffic operations.					
3e.	Describe the overall project in detail, including the type of equi The project involves replacing a 68-foot bridge, Bridge No. 75, span bridge on the existing alignment with an off-site detour. S and cranes will be used.	pment to be used: and a 21-foot bridge, Bridge No. 76, with a 160-foot, 2- Standard road building equipment, such as trucks, dozers,				
4.	Jurisdictional Determinations					
4a.	Have jurisdictional wetland or stream determinations by the Corps or State been requested or obtained for this property / project (including all prior phases) in the past? Comments: We are requesting a final approved JD with this application.	🗌 Yes 🛛 No 🗌 Unknown				
4b.	If the Corps made the jurisdictional determination, what type of determination was made?	Preliminary Final				
4c.	. If yes, who delineated the jurisdictional areas? Agency/Consultant Company: Name (if known): Other:					
4d.	4d. If yes, list the dates of the Corps jurisdictional determinations or State determinations and attach documentation.					
5.	Project History					
5a.	Have permits or certifications been requested or obtained for this project (including all prior phases) in the past?	🗆 Yes 🛛 No 📄 Unknown				
5b.	If yes, explain in detail according to "help file" instructions.					

6.	Future Project Plans		
6a.	Is this a phased project?	🗌 Yes	🖾 No
6b.	lf yes, explain.		

C. Proposed Imp	C. Proposed Impacts Inventory							
1. Impacts Summ	ary							
1a. Which sections	were completed b	elow for your project	(check all that a	apply):				
U Wetlands	\boxtimes s	Streams - tributaries	🗌 Βι	uffers				
Open Waters	s 🗌 F	Pond Construction						
2. Wetland Impac	ts							
If there are wetland	If there are wetland impacts proposed on the site, then complete this question for each wetland area impacted.							
2a. Wetland impact	2b.	2c.	2d.	2e. Type of jurisd	iction	2f.		
number – Permanent (P) or Temporary (T)	Type of impact	Type of wetland (if known)	Forested	(Corps - 404 DWQ – non-404	, 10 l, other)	Area of impact (acres)		
Site 1 🗌 P 🗌 T			☐ Yes ☐ No	☐ Corps ☐ DWQ				
Site 2 🗌 P 🗌 T			☐ Yes ☐ No	Corps				
Site 3 🗌 P 🗌 T			☐ Yes ☐ No	Corps				
Site 4 🗌 P 🗌 T			☐ Yes ☐ No	Corps				
Site 5 🗌 P 🗌 T								
Site 6 🗌 P 🗌 T								
	<u> </u>	<u> </u>		2g. Total wetla	nd impacts	X Permanent		
2h. Comments:						XTompolary		
3. Stream Impacts If there are perennia guestion for all strea	s I or intermittent str m sites impacted.	eam impacts (includi	ng temporary ir	npacts) proposed on t	he site, then c	complete this		
3a. Stream impact number - Permanent (P) or Temporary (T)	3b. Type of impact	3c. Stream name	3d. Perennial (PER) or intermittent (INT)?	3e. Type of jurisdiction (Corps - 404, 10 DWQ – non-404, other)	3f. Average stream width (feet)	3g. Impact length (linear feet)		
Site 1 🛛 P 🗌 T	Bank Stabilization due to Bridge	Right Prong Mud Creek	⊠ PER □ INT	⊠ Corps □ DWQ	15	73		
Site 2 🗌 P 🛛 T	Impact to install rip-rap pad	Left Prong Mud Creek	⊠ PER □ INT	⊠ Corps □ DWQ	17	10		
Site 3 🗌 P 🖂 T	Impact to install rip-rap pad	Right Prong Mud Creek	⊠ PER □ INT	⊠ Corps □ DWQ	15	13		
Site 4 🗌 P 🗌 T			PER INT	Corps				
Site 5 🗌 P 🗌 T				Corps				
Site 6 🗌 P 🗌 T			PER INT	Corps				
3h. Total stream and tributary impacts						73 Perm 23 Temp		

3i. Comme	3i. Comments:									
4. Open	Water In	npacts								
If there are	e propose nen indivi	ed impacts to lakes, dually list all open y	ponds, e vater imp	estuari	es, tributai elow.	ries, sound	s, the Atlantic	c Ocean,	or any other op	en water of
4a.		4b.	4c.			4d.		4e.		
Open w impact nu	/ater mber –	Name of waterbody		Type	e of impac	ŀ	Waterbod	v tvpe	Area of im	pact (acres)
Permaner	nt (P) or	(if applicable)		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Tratol boo	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Area or impact (acres)	
	ary (T) D□ T									
						4f. Total o	pen water i	mpacts	X Ten	nporary
4g. Comments:										
5. Pond	or Lake	Construction								
If pond or	lake cons	struction proposed,	then con	nplete	the chart b	elow.				
5a.	5b.		5c.		lana anta (a		5d.		(f = = 1)	5e.
Pond ID	Pro	posed use or	VV	Stream Impacts (acres)		im impac	(acres)			
number	pur	pose of pond	Flood	led	Filled	Excavat ed	Flooded	Filled	Excavated	Flooded
P1										
P2										
		5f. Total								
5g. Comm	ients:									
5h. Is a dam high hazard permit required?			ΠY	es	🗌 No	lf yes, perr	mit ID no	:		
5i. Expected pond surface area (acres):										
5j. Size c	of pond w	atershed (acres):								
5k. Metho	5k. Method of construction:									

6. Buffer Impacts (for DWQ)							
If project will impact a protected riparian buffer, then complete the chart below. If yes, then individually list all buffer impacts below. If any impacts require mitigation, then you MUST fill out Section D of this form.							
6a. Project is in which	protected basin?	☐ Neuse ☐ Catawba	☐ Tar-Pamlico ☐ Randleman	Other:			
6b. Buffer impact	6c.	6d.	6e.	6f.	6g.		
number – Permanent (P) or Temporary (T)	Reason for impact	Stream name	Buffer mitigation required?	Zone 1 impact (square feet)	Zone 2 impact (square feet)		
B1 🗌 P 🗌 T			☐ Yes ☐ No				
B2 🗌 P 🗌 T			☐ Yes ☐ No				
B3 [] P [] T [] Yes [] No							
6h. Total buffer impacts							
6i. Comments:							

D.	D. Impact Justification and Mitigation					
1.	Avoidance and Minimization					
1a.	a. Specifically describe measures taken to avoid or minimize the proposed impacts in designing project.					
	The proposed bridge is 71 feet longer than the two existing bridges allowing for a larger hydraulic opening; the proposed bridge will be at approximately the same grade as the existing structure; an off site detour will be used.					
1b.	o. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques.					
	By replacing the existing bridges with a single structure on modification for Mud Creek and allows for less construction	the existing alignment activities in the Mud C	we are able to avoid a floodplain Creek floodplain.			
2.	Compensatory Mitigation for Impacts to Waters of the	U.S. or Waters of the	State			
		🗌 Yes 🛛 No	,			
2a.	Does the project require Compensatory Mitigation for impacts to Waters of the U.S. or Waters of the State?	If no, explain: impact stabilization and is no U.S.	s are due to the use of riprap for bank ot considered a loss of waters of the			
2b.	If yes, mitigation is required by (check all that apply):		rps			
2c.	If yes, which mitigation option will be used for this project?	 Mitigation bank Payment to in-lie Permittee Response 	u fee program nsible Mitigation			
3.	Complete if Using a Mitigation Bank					
За.	Name of Mitigation Bank: not applicable					
3b.	Credits Purchased (attach receipt and letter)	Туре	Quantity			
3c.	Comments:					
4.	Complete if Making a Payment to In-lieu Fee Program					
4a.	Approval letter from in-lieu fee program is attached.	🗌 Yes				
4b.	Stream mitigation requested:	linear feet				
4c.	If using stream mitigation, stream temperature:	🗌 warm 🗌 co	ol 🗌 cold			
4d.	Buffer mitigation requested (DWQ only):	square feet				
4e.	Riparian wetland mitigation requested:	acres				
4f.	Non-riparian wetland mitigation requested:	acres				
4g.	Coastal (tidal) wetland mitigation requested:	acres				
4h.	Comments:					
5.	Complete if Using a Permittee Responsible Mitigation I	Plan				
5a.	If using a permittee responsible mitigation plan, provide a c	description of the propo	psed mitigation plan.			

6. Buffer Mitigation (State Regulated Riparian Buffer Rules) – required by DWQ								
6a. Will the project result in an impact within a protected riparian buffer that requires Section Yes No buffer mitigation?								
6b. If yes, then identify the square feet of impact to each zone of the riparian buffer that requires mitigation. Calculate the amount of mitigation required.								
Zone	6c. Reason for impact	6d. Total impact (square feet)	Multiplier	6e. Required mitigation (square feet)				
Zone 1			3 (2 for Catawba)					
Zone 2			1.5					
		6f. Total buffer	mitigation required:					
6g. If buffer mitigation is required, discuss what type of mitigation is proposed (e.g., payment to private mitigation bank, permittee responsible riparian buffer restoration, payment into an approved in-lieu fee fund).								
6h. Comme	nts:							

E. Stormwater Management and Diffuse Flow Plan (required by DWQ)					
1. Diffuse Flow Plan					
1a. Does the project include or is it adjacent to protected riparian buffers identified within one of the NC Riparian Buffer Protection Rules?	🗋 Yes 🛛 No				
1b. If yes, then is a diffuse flow plan included? If not, explain why. Comments:	□ Yes □ No				
2. Stormwater Management Plan					
2a. What is the overall percent imperviousness of this project?	N/A				
2b. Does this project require a Stormwater Management Plan?	🛛 Yes 🗌 No				
2c. If this project DOES NOT require a Stormwater Management Plan, explain why:					
2d. If this project DOES require a Stormwater Management Plan, then provide a brief, na See attached permit drawings.	arrative description of the plan:				
2e. Who will be responsible for the review of the Stormwater Management Plan?	 Certified Local Government DWQ Stormwater Program DWQ 401 Unit 				
3. Certified Local Government Stormwater Review					
3a. In which local government's jurisdiction is this project?	not applicable				
3b. Which of the following locally-implemented stormwater management programs apply (check all that apply):	Phase II NSW USMP Water Supply Watershed Other:				
3c. Has the approved Stormwater Management Plan with proof of approval been attached?	Yes No				
4. DWQ Stormwater Program Review					
4a. Which of the following state-implemented stormwater management programs apply (check all that apply):	 Coastal counties HQW ORW Session Law 2006-246 Other: 				
4b. Has the approved Stormwater Management Plan with proof of approval been attached?	☐ Yes ⊠ No Stormwater Permit is Pending				
5. DWQ 401 Unit Stormwater Review					
5a. Does the Stormwater Management Plan meet the appropriate requirements?	☐ Yes ☐ No N/A				
5b. Have all of the 401 Unit submittal requirements been met?	☐ Yes ☐ No N/A				

F.	F. Supplementary Information					
1.	Environmental Documentation (DWQ Requirement)					
1a.	Does the project involve an expenditure of public (federal/state/local) funds or the use of public (federal/state) land?	🛛 Yes	🗌 No			
1b.	If you answered "yes" to the above, does the project require preparation of an environmental document pursuant to the requirements of the National or State (North Carolina) Environmental Policy Act (NEPA/SEPA)?	⊠ Yes	🗌 No			
1c.	If you answered "yes" to the above, has the document review been finalized by the State Clearing House? (If so, attach a copy of the NEPA or SEPA final approval letter.)	⊠ Yes	🗌 No			
	Comments:					
2.	Violations (DWQ Requirement)					
2a.	Is the site in violation of DWQ Wetland Rules (15A NCAC 2H .0500), Isolated Wetland Rules (15A NCAC 2H .1300), DWQ Surface Water or Wetland Standards, or Riparian Buffer Rules (15A NCAC 2B .0200)?	☐ Yes	🖾 No			
2b.	Is this an after-the-fact permit application?	🗌 Yes	🖾 No			
2c.	If you answered "yes" to one or both of the above questions, provide an explanation of	of the violation(s):				
3.	Cumulative Impacts (DWQ Requirement)					
За.	Will this project (based on past and reasonably anticipated future impacts) result in additional development, which could impact nearby downstream water quality?	□ Yes ⊠ No				
3b.	If you answered "yes" to the above, submit a qualitative or quantitative cumulative impost recent DWQ policy. If you answered "no," provide a short narrative description.	oact analysis in a	ccordance with the			
	Due to the minimal transportation impact resulting from this bridge replacement, this project will neither influence nearby land uses nor stimulate growth. Therefore, a detailed indirect or cumulative effects study will not be necessary.					
4.	Sewage Disposal (DWQ Requirement)					
4a.	Clearly detail the ultimate treatment methods and disposition (non-discharge or discharge between the proposed project, or available capacity of the subject facility.	arge) of wastewat	er generated from			

5.	. Endangered Species and Designated Critical Habitat (Corps Requirement)					
5a.	Will this project occur in or near an are habitat?	ea with federally protected species or	🛛 Yes	🗌 No		
5b.	Have you checked with the USFWS c impacts?	oncerning Endangered Species Act	⊠ Yes	🗌 No		
5c.	If yes, indicate the USFWS Field Offic	☐ Raleigh⊠ Asheville				
5d.	What data sources did you use to dete Habitat?	ermine whether your site would impact Er	ndangered Species or D	esignated Critical		
	USFWS web page of T/E species for Henderson County lists seven species. Habitat is present within the study area for the following species: Appalachian elktoe, Small whorled pogonia and White irisette. These species all have a biological conclusion of No Effect; NHP database of element occurrences					
6.	Essential Fish Habitat (Corps Requ	irement)				
6a.	6a. Will this project occur in or near an area designated as essential fish habitat?					
6b.	What data sources did you use to dete	ermine whether your site would impact E	ssential Fish Habitat?			
	NMFS County Index					
7.	Historic or Prehistoric Cultural Res	ources (Corps Requirement)				
7a.	 a. Will this project occur in or near an area that the state, federal or tribal governments have designated as having historic or cultural preservation status (e.g., National Historic Trust designation or properties significant in North Carolina history and archaeology)? 					
7b.	What data sources did you use to dete	ermine whether your site would impact hi	storic or archeological re	sources?		
	NEPA Documentation - On May 29, 20 effects on the Flat Rock Historic Distri Flat Rock Historic District.	007 the NCDOT met with HPO and the F ct; it was determined that this alternative	ederal Highway Adminis would have "No Adverse	stration to discuss e Effect" on the		
8. I	Flood Zone Designation (Corps Requ	irement)				
8a.	Will this project occur in a FEMA-desig	nated 100-year floodplain?	🛛 Yes 🛛 [No		
8b.	8b. If yes, explain how project meets FEMA requirements: NCDOT Hydraulics Unit coordination with FEMA					
8c.	8c. What source(s) did you use to make the floodplain determination? FEMA Maps					
	Dr. Gregory J. Thorpe, Ph D Applicant/Agent's Printed Name Applicant/Agent's Signature (Agent's signature is valid only if an authorization letter from the applicant is provided.)					

5.	Endangered Species and Designated Critical Habitat (Corps Requirement)						
<u>5</u> a.	Will this project occur in or near an are habitat?	ea with federally protected species or	🛛 Yes	🗌 No			
5b.	Have you checked with the USFWS c impacts?	🛛 Yes	□ No				
5c.	If yes, indicate the USFWS Field Offic	e you have contacted.	☐ Raleigh⊠ Asheville				
5d.	What data sources did you use to dete Habitat?	ermine whether your site would impact Er	ndangered Species or I	Designated Critical			
	USFWS web page of T/E species for Henderson County lists seven species. Habitat is present within the study area for the following species: Appalachian elktoe, Small whorled pogonia and White irisette. These species all have a biological conclusion of No Effect; NHP database of element occurrences						
6.	Essential Fish Habitat (Corps Requ	irement)					
6a.	Will this project occur in or near an are	a designated as essential fish habitat?	☐ Yes	No No			
6b.	What data sources did you use to dete	ermine whether your site would impact E	ssential Fish Habitat?				
	NMFS County Index						
7.	Historic or Prehistoric Cultural Res	ources (Corps Requirement)					
7a.	Will this project occur in or near an are governments have designated as havi status (e.g., National Historic Trust de North Carolina history and archaeolog	🛛 Yes	□ No				
7b.	b. What data sources did you use to determine whether your site would impact historic or archeological resources?						
	NEPA Documentation - On May 29, 2007 the NCDOT met with HPO and the Federal Highway Administration to discuss effects on the Flat Rock Historic District; it was determined that this alternative would have "No Adverse Effect" on the Flat Rock Historic District.						
8. F	8. Flood Zone Designation (Corps Requirement)						
8a.	8a. Will this project occur in a FEMA-designated 100-year floodplain?						
8b. If yes, explain how project meets FEMA requirements: NCDOT Hydraulics Unit coordination with FEMA							
8c. What source(s) did you use to make the floodplain determination? FEMA Maps							
	Dr. Gregory J. Thorpe, Ph D Applicant/Agent's Printed Name (Agent's signature is valid only if an authorization letter from the applicant is provided.)						



STATE	STATE	SHEBT NO.	TOTAL SHEETS		
N.C.	B–∠	4147	1		
STAT	u prolini.	R.A.FROLING.		000571/77	
33-	496.1.1	BRZ-1123(11)		PE	
334	496.2.1	BRZ-1123(11)		R/W &	UTIL.
334	496.3.1	BRZ-1123(11)		CONS	б Т .



North Carolina Department of Transportation

Version 1.1

2

Released: July 2010 (DRAFT)

Highway Stormwater Program STORMWATER MANAGEMENT PLAN

Page

1 of

General Project Information						
Project No.: 33496.1.1 (B-4147)		Date:	4/5/2011			
City/Town:			Designer:	Max Price - Wetherill Eingineering		
County(ies):	Henderson County		Project Manager:	Marshall Clawson		
River Basin(s):	French Broad		CAMA County?	no TVA County? yes		
Primary Receiving Water:	Left and Right P	rong of Mud Creek	NCDWQ Stream Index:			
NCDWQ Surface Water Classification for Primary	Receiving Water	Primary:	Class C			
		Supplemental:				
Other Stream Classification:						
303(d) Stream?	no	Type(s) of Impairment:				
State Stormwater Permit Required?	no	If yes, why?				
Could the Project Impact Threatened or Endange	red Species?		no			
· · · ·	•					
Description:						
Anadromous Fish Present?	no					
Buffer Rules in Effect?	no		Buffer Rules:			
		Existing S	Site			
		Existing e				
Description of Existing Project Area	Rural two lane two way S	R route				
Average Daily Traffic (existing):	1595 (year 2011)					
Existing Cross Section:	2 - 10' travel lanes with st	houlder section.				
Surrounding Land Use:	farmland woods, some re	esidential				
General Comments:	Sub-Regional Tier Guidel	lines apply				
		Drojact Dooo	rintian			
		Project Desci	ription			
Description of Proposed Projects	Denless insufficient bride					
Description of Proposed Project:	Replace insufficient bridg	es				
Average Daily Traffic (proposed):	3515 (year 2031)	e				
Proposed Cross-Section:	2 - 10 [°] travel lanes with si	noulder section.	laa			
			Median Type:			
	0.400					
Project Length (lin. miles/feet):	0.199 miles		Added Impervious Area (ac.):	insignificant, pavement width not increased		
General Comments:						

North Carolina Department of Transportation

Version 1.1

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Released: July 2010 (DRAFT)

Highway _____ Stormwater

Page 2 of **Environmental Summary** Riparian Buffer and Jurisdictional Stream Impacts and Associated SCMs Q_2 **Q**₁₀ WQv^c Stream Jurisdict. Classific-Checklist SCM Type Complete? DA (ac.) (ft³/s) (ft³/s) (ft³) Buffer? Proposed Structure Station Stream Name Type Stream ation? BRG# 75 65' 24" CORED SLAB (2'-6" CAP) ; BRG# 76 65' 24" CORED SLAB (2'-6" CAP) Mud Creeek Perennial RPW No Class C 21+22 no General Comments:

Highway Stormwater Program

STORMWATER MANAGEMENT PLAN

					W		RMIT IMP/	ACT SUMM	ARY			
		-		WETLAND IMPACTS				SURFACE WATER IMPACTS				
Site No.	Station (From/To)	Structure Size / Type	Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	21+25 to 22+02	Bridge	((()))	(0.0)	(0.0)	(00)	(40)	(00)	(00)	()	()	()
		Bank Stabilization						< 0.01		73		
		Right Prong										
	20+92 LT	Ditch										
		Bank Stabilization							< 0.01		10	
		Left Prong										
2	21+75 RT	Ditch							< 0.01		13	
		Bank Stabilization										
		Right Prong										
TOTALS	8:		0.00	0.00	0.00	0.00	0.00	< 0.01	< 0.01	73	23	0
- - 1	TEMPORARY IMPACTS TO TEMPORARY IMPACTS TO PERMANENT IMPACTS TO	SURFACE WATER LEFT SURFACE WATER RIGH SURFACE WATER RIGH	PRONG : LESS T PRONG : LES T PRONG : LES	5 THAN 0.01 AC 55 THAN 0.01 A 55 THAN 0.01 A	RES (25 SQ. F CRES (47 SQ. CRES (199 SQ	T.) FT.) . FT.)			NC D Brgs 7 76 ove:	EPARTMENT O DIVISION OI 5 over Right Pr r Left Prong of i HENDERS(F TRANSPO F HIGHWAY ong of Mud Mud Creek o DN COUNTY	RTATI S Creek on SR



DIVISION OF HIGHWAYS HENDERSON COUNTY WBS: 33496.1.1 (B-4147) BRGS 75 over RIGHT PRONG CREEK and 76 over LEFT PRONG CK ON SR 1129

SHEET

OF

07 // 29 // 11

PROPERTY OWNERS

PARCEL NO.	NAMES	ADDRESSES
4 and 7	F. G. Shealy	P.O. Box 476 Flat Rock, NC 28731
5	Mary Ann Baldwin Martha Rose Gordon	21 Alpen Rose Way Horseshoe, NC 28742
6	Michael & Pamela Cooper	P.O. Box 2526 Hendersonville, NC 28793
8	Hal M. Hunter	2520 Asheville Highway Hendersonville, NC 28791

NCDOT

DIVISION OF HIGHWAYS HENDERSON COUNTY WBS: 33496.1.1 (B-4147) BRGS 75 over RIGHT PRONG CREEK and 76 over LEFT PRONG CK ON SR 1129

SHEET

OF

Constructability/Permitting/Commitments

Has the method of construction for proposed bridges and / or culverts been addressed? See CFI Checklist attached to field inspection letter. 485

Has the method of removal for bridge superstructure and substructure been discussed? See CFI Checklist attached to field inspection letter.

The existing bridges are crutch bent, steel grader, wooden deck structures. Section 402-2 will cover vemoval.

Is any additional right of way, construction easements, or drainage easements required other than those shown on the plans for the issues discussed above. If so, show location and limits (Specify temporary or permanent). NO

Does the proposed design take into consideration the constructability issues associated with constructing the roadway, drainage, structures, utilities, and maintaining traffic so that the right of way limits and permit application can be developed accordingly. Jes

Have all environmental commitments been reviewed and can they be implemented? See PDEA comments

Are historic properties and / or archeological sites clearly identified on the plans? Do the commitments clearly explain how the impacts to these sites will be avoided or minimized? NIA









APPROVED JURISDICTIONAL DETERMINATION FORM U.S. Army Corps of Engineers

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD):

B. DISTRICT OFFICE, FILE NAME, AND NUMBER:

C. PROJECT LOCATION AND BACKGROUND INFORMATION: Bridge No. 75 over Right Prong Mud Creek and Bridge No. 76 over Left Prong Mud Creek on Little River Road (SR 1123).

State: NC County/parish/borough: Henderson City: Edneyville

Center coordinates of site (lat/long in degree decimal format): Lat. 35.264779° N, Long. -82.486154° W.

Universal Transverse Mercator:

Name of nearest waterbody: Right Prong Mud Creek and Left Prong Mud Creek

Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: French Broad River Name of watershed or Hydrologic Unit Code (HUC): 06010105

- Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.
- Check if other sites (e.g., offsite mitigation sites, disposal sites, etc...) are associated with this action and are recorded on a different JD form.

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

- Office (Desk) Determination. Date:
- Field Determination. Date(s):

SECTION II: SUMMARY OF FINDINGS A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There **Pick List** "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [*Required*]

Waters subject to the ebb and flow of the tide.

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain:

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There Pick List "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]

1. Waters of the U.S.

- a. Indicate presence of waters of U.S. in review area (check all that apply): ¹
 - TNWs, including territorial seas
 - Wetlands adjacent to TNWs
 - Relatively permanent waters² (RPWs) that flow directly or indirectly into TNWs
 - Non-RPWs that flow directly or indirectly into TNWs
 - Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
 - Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
 - Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
 - Impoundments of jurisdictional waters
 - Isolated (interstate or intrastate) waters, including isolated wetlands
- b. Identify (estimate) size of waters of the U.S. in the review area: Non-wetland waters: 106 lf of Right Prong; 104 lf of Left Prong linear feet: width (ft) an d/or acres. Wetlands: 0 acres.
- c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual Elevation of established OHWM (if known):
- Non-regulated waters/wetlands (check if applicable):³
 Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain:

¹ Boxes checked below shall be supported by completing the appropriate sections in Section III below.

² For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

³ Supporting documentation is presented in Section III.F.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. TNW

Identify TNW:

Summarize rationale supporting determination:

2. Wetland adjacent to TNW Summarize rationale supporting conclusion that wetland is "adjacent":

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody⁴ is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

1. Characteristics of non-TNWs that flow directly or indirectly into TNW

 (i) General Area Conditions: Watershed size: 11.02 square miles Drainage area: Pick List Average annual rainfall: ????? inches Average annual snowfall: checked Asheville, NC: 15.2 inches

(ii) Physical Characteristics:

(a) <u>Relationship with TNW:</u>
 ☑ Tributary flows directly into TNW.
 ☑ Tributary flows through Pick List tributaries before entering TNW.

Project waters are10-15 river miles from TNW.Project waters are1 (or less) river miles from RPW.Project waters are5-10 aerial (straight) miles from TNW.Project waters are1 (or less) aerial (straight) miles from RPW.Project waters cross or serve as state boundaries. Explain:

Identify flow route to TNW⁵: Mud Creek (Right and Left Prong) flows directly to the French Broad River. Tributary stream order, if known: 3.

⁴ Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

⁵ Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

(b)	General Tributary Characteristics (check all that apply): Tributary is: Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"Co
	Tributary properties with respect to top of bank (estimate): Average width: 15-17 feet Average depth: 3-8 feet Average side slopes: 4:1 (or greater).
	Primary tributary substrate composition (check all that apply):
	Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: fairly stable. Presence of run/riffle/pool complexes. Explain: run/pool sequence present. Tributary geometry: Meandering Tributary gradient (approximate average slope): %
(c)	<u>Flow:</u> Tributary provides for: Seasonal flow Estimate average number of flow events in review area/year: 2-5 Describe flow regime: Other information on duration and volume:
	Surface flow is: Confined. Characteristics:
	Subsurface flow: Unknown. Explain findings: . Dye (or other) test performed: .
	Tributary has (check all that apply): Bed and banks OHWM ⁶ (check all indicators that apply): clear, natural line impressed on the bank changes in the character of soil shelving vegetation matted down, bent, or absent leaf litter disturbed or washed away sediment deposition water staining other (list):
	\Box Discontinuous OHWM. ⁷ Explain:
	If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply): High Tide Line indicated by: Mean High Water Mark indicated by: oil or scum line along shore objects survey to available datum; fine shell or debris deposits (foreshore) physical markings/characteristics tidal gauges other (list):
) Ch Cha Ide	emical Characteristics: aracterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, et Explain: water clarity is good and velocity is strong. ntify specific pollutants, if known:

⁶A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break. ⁷Ibid.

(iv) Biological Characteristics. Channel supports (check all that apply):

Riparian corridor. Characteristics (type, average width): less than 40 feet wide.

- Wetland fringe. Characteristics:
- \boxtimes Habitat for:

K Federally Listed species. Explain findings; habitat for White irisette and Small whorled pogonia exists within the project study area; however the biological conclusion is No Effect; Marginal habitat exists within the psa for the Appalachian elktoe, according to the August 14, 2006 Survey Report, but no freshwater mussels were found in 2.0 manhours of survey time.

Fish/spawn areas. Explain findings:

Other environmentally-sensitive species. Explain findings:

Aquatic/wildlife diversity. Explain findings:

Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW 2.

(i) Physical Characteristics:

(a) General Wetland Characteristics: Properties: Wetland size: acres Wetland type. Explain: Wetland quality. Explain:

Project wetlands cross or serve as state boundaries. Explain:

(b) General Flow Relationship with Non-TNW: Flow is: **Pick List**. Explain: .

Surface flow is: Pick List Characteristics:

Subsurface flow: Pick List. Explain findings: Dye (or other) test performed:

- (c) Wetland Adjacency Determination with Non-TNW:
 - Directly abutting
 - Not directly abutting
 - Discrete wetland hydrologic connection. Explain:
 - Ecological connection. Explain:
 - Separated by berm/barrier. Explain:

(d) Proximity (Relationship) to TNW

Project wetlands are **Pick List** river miles from TNW. Project waters are **Pick List** aerial (straight) miles from TNW. Flow is from: Pick List. Estimate approximate location of wetland as within the Pick List floodplain.

(ii) Chemical Characteristics:

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain:

Identify specific pollutants, if known:

(iii) Biological Characteristics. Wetland supports (check all that apply):

- Riparian buffer. Characteristics (type, average width):
- Vegetation type/percent cover. 'Explain:
 - Habitat for:
 - Federally Listed species. Explain findings:
 - Fish/spawn areas. Explain findings:
 - Other environmentally-sensitive species. Explain findings:
 - Aquatic/wildlife diversity. Explain findings:

Characteristics of all wetlands adjacent to the tributary (if any) 3.

All wetland(s) being considered in the cumulative analysis: Pick List

) acres in total are being considered in the cumulative analysis. Approximately (

For each wetland, specify the following:

Directly abuts? (Y/N)

Size (in acres)

Directly abuts? (Y/N)

Size (in acres)

Summarize overall biological, chemical and physical functions being performed:

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

- 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D:
- 2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:
- 3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

- TNWs and Adjacent Wetlands. Check all that apply and provide size estimates in review area:
 TNWs: li near feet width (ft), Or, acres.
 Wetlands adjacent to TNWs: acres.
- RPWs that flow directly or indirectly into TNWs.
 Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: Clear bed and bank, flowing water each site visit.
 - Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally:

Provide estimates for jurisdictional waters in the review area (check all that apply):

Tributary waters: 106 If of Right Prong and 104 If of Left Prong linear feet acres.

Other non-wetland waters:

Identify type(s) of waters:

Non-RPWs⁸ that flow directly or indirectly into TNWs. 3.

Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

width (ft).

Provide estimates for jurisdictional waters within the review area (check all that apply):

acres.

- Tributary waters: linear feet width (ft).
- Other non-wetland waters:
 - Identify type(s) of waters:

Wetlands directly abutting an RPW that flow directly or indirectly into TNWs. 4

Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.

- Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:
- Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

- Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs. 5.
 - Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs. 6.

Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: acres.

Impoundments of jurisdictional waters.⁹ 7.

- As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.
- Demonstrate that impoundment was created from "waters of the U.S.," or
- Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
- Demonstrate that water is isolated with a nexus to commerce (see E below).

- which are or could be used by interstate or foreign travelers for recreational or other purposes.
- from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.
- which are or could be used for industrial purposes by industries in interstate commerce.
 - Interstate isolated waters. Explain:
- Other factors. Explain:

Identify water body and summarize rationale supporting determination:

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY):¹⁰

⁸See Footnote # 3.

⁹ To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

¹⁰ Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HO for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

Provide estimates for jurisdictional waters in the review area (check all that apply):

Tributary waters: linear Other non-wetland waters: linear feet widt h (ft).

acres.

Identify type(s) of waters:

Wetlands: acres.

NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY): F.

If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.

Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.

Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR).

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain:

Other: (explain, if not covered above):

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):

Non-wetland waters (i.e., rivers, streams): li near feet width (ft).

Lakes/ponds: acres.

Other non-wetland waters: acres. List type of aquatic resource:

Wetlands: acres.

Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):

Non-wetland waters (i.e., rivers, streams): li near feet. width (ft).

Lakes/ponds: acres.

Other non-wetland waters: acres. List type of aquatic resource:

Wetlands: acres

SECTION IV: DATA SOURCES.

A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall 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: Data sheets prepared/submitted by or on behalf of the applicant/consultant. Office concurs with data sheets/delineation report. Office does not concur with data sheets/delineation report. Data sheets prepared by the Corps: 圜 Corps navigable waters' study: U.S. Geological Survey Hydrologic Atlas: USGS NHD data. USGS 8 and 12 digit HUC maps. U.S. Geological Survey map(s). Cite scale & quad name: USDA Natural Resources Conservation Service Soil Survey. Citation: National wetlands inventory map(s). Cite name: State/Local wetland inventory map(s): FEMA/FIRM maps: 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929) Photographs: Aerial (Name & Date): or Other (Name & Date): Previous determination(s). File no. and date of response letter: Applicable/supporting case law: Applicable/supporting scientific literature: Other information (please specify):

B. ADDITIONAL COMMENTS TO SUPPORT JD: