

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

JAMES H. TROGDON, III
SECRETARY

March 10, 2017

Bill Biddlecome NCDOT Coordinator United State Army Corps of Engineers 2407 West Fifth Street Washington, NC 27889-1000

Subject: Application for a Section 10 and 404 Nationwide Permit 6 – Rodanthe Breach Long-Term Improvements, Bonner Bridge Replacement Project Phase IIb in Dare County, North Carolina; TIP Project B-2500B, Federal Aid Project No. BRNHF-0012(56); WBS Element 32635.3.FR7

The North Carolina Department of Transportation (NCDOT) Geotechnical Engineering Unit is proposing additional subsurface investigations for the foundation design for the NC-12 Rodanthe Bridge in the Pamlico Sound in Dare County, North Carolina. A completed pre-construction notification form and appropriate site drawings are attached for your review.

As Pamlico Sound is designated as a High Quality Water, and work will be occurring on a barrier island, notification to the appropriate agencies through a Nationwide 6 Permit is required.

A private engineering firm will conduct the investigation. On the north side of the project, there will be approximately 13 borings within the Pea Island National Wildlife Refuge (Refuge) (Sheets 14 and 15), with one boring anticipated just off the coast in the shallow waters of Pamlico Sound (within the National Park Service boundary) (Sheets 12 and 13). Of the 13 borings in the Refuge, only one is anticipated in wetlands, with the other 12 clustered in the uplands near the existing NC 12. On the south side of the project, approximately three borings will be advanced in a wetland within the proposed new bridge alignment right-of-way.

North End Borings

All equipment required to conduct the borings will be delivered to the site via a commercial haul truck. Equipment will be left staged along the shoulder within the existing NCDOT easement, but well off the roadway. A typical drill rig will advance the upland borings near the existing roadway. These borings will be performed with a rubber tire drill rig or a low ground pressure tracked drill rig, depending on the boring location. These borings will be 3-8 inches in diameter. Any disturbance from the borings will be limited to within a 2-foot radius of the boring location.

The borings in the wetland and sound will be accessed as indicated on Sheet 13. This route was chosen as it minimizes impacts to vegetation and wetlands. Impacts to wetlands / surface waters (Sound) that cannot be avoided will consist of minimal hand clearing and will all also occur within the future bridge/roadway footprint. The borings in the wetland and Sound will be performed by a

tracked ATV "swamp buggy" type carrier and drill rig designed specifically to access and drill in marshy, near shore, shallow water marine environments. Along with the "swamp buggy", a smaller ATV tracked drill crew support vehicle will access the boring locations and provide safe transport of men, supplies, samples, etc. to and from the drill rig and staging area while the geotechnical borings are in progress. These borings will turn or drive a 4-inch diameter steel casing into the sound bottom, creating minimal disturbance. Other drilling tools will be used to sample the sediment and advance the hold within the steel casing. The steel casing will be removed upon completing the boring. Spoil from the drilling in the Sound and wetland will be placed in a designated location on upland.

Once the "swamp buggy" is positioned at the proposed boring location(s), drilling will commence. The borings will be a Standard Penetration Test (SPT) with split barrel soil samples collected at approximately 5 foot intervals until the termination depth of 150 feet below ground surface. A 4-inch steel casing will be installed at the surface and advanced as needed to maintain bore-hole stability during drilling and will be removed upon boring termination. This methodology creates minimal disturbance beyond the bore hole. It is expected that drilling each boring will take up to a maximum of 7 days to complete.

South End Borings

There will be several hand borings in the wetland within the future roadway footprint. These areas will be accessed by foot along the future alignment, so there will no temporary access impacts.

Regulatory Approvals:

NCDOT anticipates Nationwide Permit No. 6 will authorize these activities. In addition to the Nationwide Permit No. 6 conditions, NCDOT will adhere to the NCDWR Water Quality Certification #3687 conditions, but are not requesting written approval from NCDWR.

Special Use Permit Applications will be submitted to the US Fish & Wildlife Service and National Park Service. If you have any questions or would like additional information, please contact Michael Turchy at maturchy@ncdot.gov or (919) 707-6157. A copy of this application will also be posted at https://xfer.services.ncdot.gov/pdea/PermApps/.

Sincerely,

Philip S. Harris, III, P.E., Manager Natural Environment Section

cc: NCDOT Permit Application Standard Distribution List





Office Use Only:	
Corps action ID no	
DWQ project no	
Form Version 1.3 Dec 10 2008	

	Pre-Construction Notification (PCN) Form					
A.	Applicant Information					
1.	Processing					
1a.	a. Type(s) of approval sought from the Corps:					
1b.	Specify Nationwide Permit (NWP) number: (or General Permit (GP) nur	nber:		
1c.	Has the NWP or GP number bee	n verified b	y the Corps?	⊠ Yes □ N	lo	
1d.	Type(s) of approval sought from	the DWQ (d	check all that apply):			
		n – Regula	r Non-404 Jurisdictions	l General Permit		
	☐ 401 Water Quality Certificatio	n – Expres	Riparian Buffer Autho	rization		
1e.	Is this notification solely for the rebecause written approval is not re		For the record only for DWQ 401 Certification: ☐ Yes ☐ No	For the record only for Cor	rps Permit:	
1f.	1f. 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. ☐ Yes ☐ No				lo	
1g.	Is the project located in any of Nobelow.	coastal counties. If yes, answer 1h	⊠ Yes □ N	lo		
1h.	Is the project located within a NC	DCM Area	of Environmental Concern (AEC)?	⊠ Yes □ N	lo	
2.	Project Information					
2a.	Name of project:	NC 12 – F	Rodanthe Breach Long Term Improve	ements Phase IIb		
2b.	County:	Dare				
2c.	Nearest municipality / town:	Rodanthe				
2d.	Subdivision name:	N/A				
2e.	NCDOT only, T.I.P. or state project no:	TIP B-250	00B			
3.	Owner Information					
3a.	Name(s) on Recorded Deed:	North Car	olina Department of Transportation			
3b.	Deed Book and Page No.	N/A				
3c.	Responsible Party (for LLC if applicable):	Natural Environment Section, Philip S. Harris, III, P.E / Michael Turchy				
3d.	Street address:	1598 Mail Service Center				
3e.	City, state, zip:	Raleigh, NC 27699-1598				
3f.	Telephone no.:	(919) 707	(919) 707-6123 / (919) 707-6157			
3g.	Fax no.:	(919) 212	-5785			
3h.	n. Email address: pharris@ncdot.gov / maturchy@ncdot.gov					

4.	Applicant Information (if different from owner)					
4a.	Applicant is:	Agent Other, specify:				
4b.	Name:	N/A				
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:	N/A				
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):	07400340875 (Refuge), 064920917410, 065917010371, 065917011410				
1b.	Site coordinates (in decimal degrees):	Latitude 35.611160 Longitude: 75.474644 (DD.DDDDDD) (-DD.DDDDDD)				
1c.	Property size:	14.5 acres				
2.	Surface Waters					
2a.	Name of nearest body of water (stream, river, etc.) to proposed project:	Pamlico Sound				
2b.	Water Quality Classification of nearest receiving water:	SA; HQW				
2c.	River basin:	Pasquotank				
3.	Project Description					
3a.	Describe the existing conditions on the site and the general lar application: The north side of the project study area is comprised of mainta National Wildlife Refuge and Cape Hatteras National Seashord residential areas and maintained roadway. There are jurisdiction	ained roadway and natural areas within the Pea Island e. The south side of the project study area is comprised of				
3h	List the total estimated acreage of all existing wetlands on the	· · ·				
35.	0.41 acres	property.				
20		ittent and paramial) on the property.				
30.	List the total estimated linear feet of all existing streams (interm There are no streams within the project boundaries	iliterit and perennial) on the property.				
3d.	Explain the purpose of the proposed project:					
	To conduct a subsurface investigation for the foundation desig	n for the NC 12 Rodanthe Bridge				
3e.	Describe the overall project in detail, including the type of equi	pment to be used:				
	A private engineering firm will conduct the investigation. On the north side of the project, there will be approximately 13 borings within the Pea Island National Wildlife Refuge (Refuge) (Sheets 14 and 15), with one boring anticipated just off the coast in the shallow waters of Pamlico Sound (within the National Park Service boundary) (Sheets 12 and 13). Of the 13 borings in the Refuge, only one is anticipated in wetlands, with the other 12 clustered in the uplands near the existing NC 12. The investigation will be done with a rubber tire drill rig or a low ground pressure tracked drill rig, depending on the boring location.					
Or	the south side of the project, several borings will be advanced right-of-way. These areas will be accessed by foot along the f impacts. The investigation will be done using a rubber tire drill the boring location. Any disturbance from the borings will be lire.	uture alignment, so there will be no temporary access rig or a low ground pressure tracked drill rig, depending on				
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: N/A	⊠ 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? Name (if known): Mr. Jeff Coward	Agency/Consultant Company: CZR, Inc Other: N/A				
4d.	4d. If yes, list the dates of the Corps jurisdictional determinations or State determinations and attach documentation. May 2006					

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. NW6 SAW-2013-02353, Issued 12/10/2013, NW6 SAW-2013-02353, issued 8/4/2015					
6.	6. Future Project Plans					
6a.	Is this a phased project?		☐ No			
6b.	6b. If yes, explain.					
	This permit application is for geotechnical work for the Rodanthe Bridge project, which is Phase II of the NC-12 Rodanthe Breach Long-Term Improvements project.					

C. Proposed Impacts Inventory								
1. Impacts Summary								
1a. Which sections	were completed below	for your project (che	ck all that apply	y):				
	Streams - trib	_	Buffers					
	☐ Pond	d Construction						
2. Wetland Impac	ts							
If there are wetland	impacts proposed on t	he site, then complete	e this question	for each wetland area i	mpacted	j		
2a.	2b.	2c.	2d.	2e		2f.		
Wetland impact number –	Type of impact	Type of wetland	Forested	Type of jurisdiction (Corps - 404, 10		Δros	a of impact	
Permanent (P) or	Type of impact	(if known)	Torested	DWQ – non-404, ot			(acres)	
Temporary (T)		, ,		, , , ,	- /		(/	
W1 □P⊠T	Investigative	Salt/Brackish	☐ Yes	□ Corps			<0.01	
	Boring	Marsh	⊠ No	☐ DWQ				
2g. Total wetland in	npacts						<0.01	
01 0 1 11/4						(te	mporary)	
2h. Comments: N/A								
3. Stream Impact			_					
If there are perennia question for all stream		n impacts (including to	emporary impa	cts) proposed on the sit	e, then	compl	ete this	
3a.	3b.	3c.	3d.	3e.	3f.		3g.	
Stream impact	Type of impact	Stream name	Perennial	Type of jurisdiction	Avera	ane	Impact	
number -	Typo or impaor	Caroam namo	(PER) or	(Corps - 404, 10	strea	_	length	
Permanent (P) or			intermittent	DWQ – non-404,	wid	th	(linear	
Temporary (T)			(INT)?	other)	(fee	∍t)	feet)	
S1 □P□T			☐ PER	Corps				
			☐ INT	DWQ	 			
S2 PDT			PER	Corps				
OL T-1-1 D			☐ INT	DWQ				
	ent Stream and Tribu	itary impacts						
3i. Comments: N/A								
4. Open Water In	npacts							
			ries, sounds, th	ne Atlantic Ocean, or an	y other	open v	water of	
the U.S. then individ	dually list all open wate	•						
4a.	4b.	4c.		4d.	4e.			
Open water impact number –	Name of waterbody (if applicable)	Type of im	nact	Waterbody type	Area c	of impa	act (acres)	
Permanent (P)	(ii applicable)	le) Type of impact Waterbody type Area of impact (acr				201 (40100)		
or Temporary (T)								
01 □ P ⊠ T	Pamlico Sound	Geotechnical	Boring	Open Water		<0.0)1	
4f. Total open wa	4f. Total open water impacts <0.01							
4g. Comments: N/A	4g. Comments: N/A							
If pond or lake construction proposed, then complete the chart below.								

5a.	5b.			5c.			- ()	5d.			5e.
Pond ID	Propos		purpose of		Wetland Impacts (acres)			Stream Impacts (feet)			Upland (acres)
Hamber		pond		Floo	oded	Filled	Excavated	Flooded	Filled	Excavated	Flooded
P1											
P2											
5f. Total											
5g. Comm					ı						
5h. Is a da	ım high h	nazard pern	nit required?		☐ Y	es	☐ No If	yes, permit	ID no:		
5i. Exped	ted pond	d surface a	rea (acres):								
5j. Size o	of pond w	vatershed (a	acres):								
5k. Metho	d of con	struction:									
6. Buffer I	mpacts	(for DWQ)									
							e chart below. out Section D			ly list all buffer	impacts
6a.							□ Neuse	☐ Tar-F	Pamlico	Other: Jo	rdan Lake
Project is i	in which	protected b	asin?				Catawba	Ranc	lleman		
6b.		6c.	6d.				6e.	6f.		6g.	
Buffer in numbe		Reason					Buffer	Zone 1	impact	Zone 2	impact
Permane	` ,	for	St	ream	name		mitigation	(square		(square	
or Tempor		impact					required?				
B1 □ P	' 🗌 T						☐ No				
					6h.	Total bu	ffer impacts				
6i. Comme	ents:										
D. Impact	t Justific	cation and	Mitigation								
1. Avoid	lance an	d Minimiza	ation								
1a. Specifically describe measures taken to avoid or minimize the proposed impacts in designing project. The borings will be performed with a rubber tire drill rig or a low ground pressure tracked drill rig, depending on the location. Drilling equipment will not drive through any jurisdictional wetland or stream, except where jurisdictional wetlands are unavoidable. Unavoidable wetland impacts will be restricted to areas where bridge construction impacts will be permanent. Direct wetland impacts during geotechnical investigation will be restricted to temporary hand auger drilling.											
1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques. For the drilling in the Sound and wetland on the north side of the project, a 3-8" steel casing will be turned or driven into the ground, and all materials will be contained within the steel casing and disposed of in a designated location on land. NCDOT will implement "Guidelines for Avoiding Impacts to the West Indian Manatee, Precautionary Measures for Construction Activities in North Carolina Waters," during work for this project.											

2. Compensatory Mitigation for Impacts to Waters of the U	J.S. or Waters of the	State			
2a. Does the project require Compensatory Mitigation for impacts to Waters of the U.S. or Waters of the State?	☐ Yes ⊠ No				
2b. If yes, mitigation is required by (check all that apply):	☐ DWQ ☐ Co	rps			
2c. If yes, which mitigation option will be used for this project?	☐ Mitigation bank ☐ Payment to in-lie ☐ Permittee Respo				
3. Complete if Using a Mitigation Bank	3. Complete if Using a Mitigation Bank				
3a. Name of Mitigation Bank:					
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:					
4c. If using stream mitigation, stream temperature:	☐ warm ☐ cc	ool			
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 P	5. Complete if Using a Permittee Responsible Mitigation Plan				
5a. If using a permittee responsible mitigation plan, provide a description of the proposed mitigation plan.					

6. Buffer	Buffer Mitigation (State Regulated Riparian Buffer Rules) – required by DWQ						
	project result in an impact with itigation?	buffer that requires	☐ Yes				
	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 i	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. Comments:							

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 no, explain why.				
	Comments: The proposed project is not located in a watershed with riparian buffer protection rules and is the drilling of geotechnical borings, which will not change overall impervious surfaces.	☐ 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: This therefore does not require an SMP	project is a low d	lensity proje	ct, and	
2d.	If this project DOES require a Stormwater Management Plan, then provide a brief, na	rrative descriptio	n of the plar	ղ:	
2e.	□ Certified Local Governmen 2e. Who will be responsible for the review of the Stormwater Management Plan? □ DWQ Stormwater Program □ DWQ 401 Unit				
3.	Certified Local Government Stormwater Review				
3а.	In which local government's jurisdiction is this project?				
3b.	Which of the following locally-implemented stormwater management programs apply (check all that apply):	☐ Phase II ☐ NSW ☐ USMP ☐ Water Supp ☐ Other:	ly Watershe	d	
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 could HQW ORW Session La	unties w 2006-246)	
4b.	Has the approved Stormwater Management Plan with proof of approval been attached?	☐ Yes	☐ No	N/A	
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	

Supplementary Information		
Environmental Documentation (DWQ Requirement)		
Does the project involve an expenditure of public (federal/state/local) funds or the use of public (federal/state) land?	⊠ Yes	□No
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
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:		
Violations (DWQ Requirement)	I	
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
Is this an after-the-fact permit application?	☐ Yes	⊠No
If you answered "yes" to one or both of the above questions, provide an explanation of	of the violation(s):	
Cumulative Impacts (DWQ Requirement)		
Will this project (based on past and reasonably anticipated future impacts) result in additional development, which could impact nearby downstream water quality?	☐ Yes	⊠ No
If you answered "yes" to the above, submit a qualitative or quantitative cumulative improst recent DWQ policy. If you answered "no," provide a short narrative description.	pact analysis in ac	ccordance with the
Cumulative impact analysis was completed for this project in the Final Environmental	Impact Statement	(2008).
Sewage Disposal (DWQ Requirement)		
the proposed project, or available capacity of the subject facility.	arge) of wastewate	er generated from
N/A		
	Does the project involve an expenditure of public (federal/state/local) funds or the use of public (federal/state) land? 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)? 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.) Comments: Violations (DWQ Requirement) 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)? Is this an after-the-fact permit application? If you answered "yes" to one or both of the above questions, provide an explanation of Cumulative Impacts (DWQ Requirement) Will this project (based on past and reasonably anticipated future impacts) result in additional development, which could impact nearby downstream water quality? If you answered "yes" to the above, submit a qualitative or quantitative cumulative impact recent DWQ policy. If you answered "no," provide a short narrative description. Cumulative impact analysis was completed for this project in the Final Environmental Sewage Disposal (DWQ Requirement)	Environmental Documentation (DWQ Requirement) Does the project involve an expenditure of public (federal/state/local) funds or the use of public (federal/state) land? 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)? 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.) Comments: Violations (DWQ Requirement) Is the site in violation of DWQ Wettand 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)? Is this an after-the-fact permit application? If you answered "yes" to one or both of the above questions, provide an explanation of the violation(s): Cumulative Impacts (DWQ Requirement) Will this project (based on past and reasonably anticipated future impacts) result in additional development, which could impact nearby downstream water quality? If you answered "yes" to the above, submit a qualitative or quantitative cumulative impact analysis in acmost recent DWQ policy. If you answered "no," provide a short narrative description. Cumulative impact analysis was completed for this project in the Final Environmental Impact Statement Sewage Disposal (DWQ Requirement) Clearly detail the ultimate treatment methods and disposition (non-discharge or discharge) of wastewate the proposed project, or available capacity of the subject facility.

5.	. Endangered Species and Designated Critical Habitat (Corps Requirement)						
5a.	Will this project occur in or near an area with federally protected species habitat?	or	⊠ Yes	□No			
5b.	. Have you checked with the USFWS concerning Endangered Species Act impacts?	t	⊠ Yes	□No			
5c.	If yes, indicate the USFWS Field Office you have contacted.		☑ Raleigh☐ Asheville				
5d.	What data sources did you use to determine whether your site would imp Habitat?	oact En	dangered Species or [Designated Critical			
	The 2008 Biological Assessment covered the impacts to all federally liste	ed spec	cies.				
6.	Essential Fish Habitat (Corps Requirement)						
6a.	Will this project occur in or near an area designated as essential fish habi	itat?	⊠ Yes	□No			
6b.	What data sources did you use to determine whether your site would imp	oact Es	sential Fish Habitat?				
	The essential fish habitat was discussed in the 2016 EA and the 2008 FE	IS					
7.	Historic or Prehistoric Cultural Resources (Corps Requirement)						
7a.	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)?		⊠ Yes	□No			
7b.	What data sources did you use to determine whether your site would imp	oact his	toric or archeological r	resources?			
	The historical and cultural resources were discussed in the 2016 EA and respective agencies is currently underway. The work under this permit wi	the 20 ill not ir	08 FEIS, and coordina mpact historical or cult	ation with the ural resources.			
8. F	Flood Zone Designation (Corps Requirement)						
8a.	Will this project occur in a FEMA-designated 100-year floodplain?		⊠ Yes	□ No			
8b.	8b. If yes, explain how project meets FEMA requirements: MOA						
8c.	8c. What source(s) did you use to make the floodplain determination? North Carolina Floodplain Mapping Program						
	Philip S. Harris, III, P.E. Applicant/Agent's Printed Name Applicant/Age (Agent's signature is valid only in applicant is	if an aut	horization letter from the	March 10, 2017 Date			











