

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

ROY COOPER GOVERNOR J. ERIC BOYETTE Secretary

April 26, 2021

U.S. Army Corps of Engineers Regulatory Field Office 3331 Heritage Trade Drive, Suite 105 Wake Forest, NC 27587

ATTN:	Mr. Eric Alsmeyer, NCDOT Regulatory Coordinator
Subject:	Application for Section 404 Nationwide Permit 14, and 401 Water Quality Certification for the proposed replacement of Bridge 132 on NC 73 over Dutch Buffalo Creek in Cabarrus County, NCDOT Division 10. TIP B-5813. Debit \$570 from WBS 45767.1.1
Reference:	 NCDOT Permit Application for a 404 Permit and 401 Water Quality Certification dated September 2, 2020 NCDWR On Hold Notification dated October 30, 2020 NCDWR Returned Application Notification dated March 30, 2021

Dear Sir:

The North Carolina Department of Transportation (NCDOT) proposes to replace Bridge 132 on NC 73 over Dutch Buffalo Creek in Cabarrus County. The current structure is a 190-foot, 4-span structurally deficient and functional obsolete structure. The new bridge will be a 208-foot, 2-span bridge approximately 50 feet upstream of the existing bridge. The existing bridge will maintain traffic until the new structure is complete.

This revised application address four primary concerns that resulted in the return of the previous application.

On November 16, 2020, NCDOT and DWR staff met onsite to review the project. The following concerns were noted and have been addressed in the attached permit drawings.

Concern 1: A UT draining from the adjacent field is jurisdictional and the impacts should be accounted for.

The impacts for this stream are now accounted for on the permit drawings. Furthermore, the stream relocation portion of the project will start further downstream, so the previous permanent impacts to this system have been minimized to temporary impacts.

Concern 2: An unstable non-jurisdictional drainage from the adjacent field should be stabilized to prevent sediment discharge into the stream.

Riprap has been added to ensure this system transitions into the relocated channel in a stable manner.

Concern 3: Sewer crossing

A 12" ductile iron gravity sewer line runs parallel to Dutch Buffalo Creek through the project area. A manhole in the path of the new bridge will need to be relocated, thus requiring the relocation of the line coming into it.

The stream relocation channel will intersect this line, exposing it at approximately the same elevation as it is currently, approximately 1-foot above the stream bed.

The relocated sewer line will be secured to driven piles located on each side of the channel. Class II riprap on the banks will keep the streambanks stable in this area.

Concern 4: Please remove the bridge deck drain nearest the stream on the east side of the bridge.

This deck drain has been removed. The nearest deck drain is now approximately 12 feet from the stream.

	Prev	ious Application	n	Rev	vised Application	n
Site	Permanent: Stream Relocation	Permanent: Bank Stabilization	Temp. Impacts	Permanent: Stream Relocation	Permanent: Bank Stabilization	Temp. Impacts
Site 1: Existing Bridge Removal	0	0	134	0	63	20
Site 2: Stream Relocation	220	0	8	219	0	117
Totals	220	0	142	219 2	63 82	137

By way of the above minimizations, the impacts for this project have changed:

Please see enclosed Pre-Construction Notification (PCN), NCDMS Acceptance, Stormwater Management Plan, and Permit Drawings. A copy of this permit application is posted on the NCDOT Permit Website at http://xfer.services.ncdot.gov/pdea/PermApps/. If you have questions or need additional information, please contact Jeff Hemphill at (919) 707-6126.

Sincerely,

Michael Charlie Philip S. Harris III, P.E., C.P.M. Environmental Analysis Unit Head



Pre-Construction Notification (PCN) Form

For Nationwide Permits and Regional General Permits

(along with corresponding Water Quality Certifications)

April 4, 2021 Ver 4

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Please note: fields marked with a red asterisk *below are required. You will not be able to submit the form until all mandatory questions are answered.

Also, if at any point you wish to print a copy of the E-PCN, all you need to do is right-click on the document and you can print a copy of the form.

Below is a link to the online help file.

https://edocs.deq.nc.gov/WaterResources/0/edoc/624704/PCN%20Help%20File%202018-1-30.pdf

A. Processing Information

County (or Counties) where the project is located:*

Cabarrus

Is this a NCDMS Project*

○ Yes ⊙ No Click Yes, only if NCDMS is the applicant or co-applicant.

Is this project a public transportation project?*

♥ Yes ♥ No This is any publicly funded by municipal,state or federal funds road, rail, airport transportation project.

Is this a NCDOT Project?*

⊙ Yes ○ No

(NCDOT only) T.I.P. or state project number: B-5813

WBS #*

45767.1.1 (for NCDOT use only)

1a. Type(s) of approval sought from the Corps:*

✓ Section 404 Permit (wetlands, streams and waters, Clean Water Act)
□ Section 10 Permit (navigable waters, tidal waters, Rivers and Harbors Act)

Has this PCN previously been submitted?*

⊙Yes ⊙No

Please provide the date of the previous submission.* 9/2/2020

1b. What type(s) of permit(s) do you wish to seek authorization?*

- Nationwide Permit (NWP)
- Regional General Permit (RGP)
- Standard (IP)

1c. Has the NWP or GP number been verified by the Corps?*

⊙ Yes ⊙ No

Nationwide Permit (NWP) Number:

14 - Linear transportation

NWP Numbers (for multiple NWPS):

List all NW numbers you are applying for not on the drop down list.

1d. Type(s) of approval sought from the DWR:*

check all that apply

✓ 401 Water Quality Certification - Regular

Non-404 Jurisdictional General Permit

Individual 401 Water Quality Certification

Pre-Filing Meeting Information

T 401 Water Quality Certification - Express

Riparian Buffer Authorization

Before submitting this form please ensure you have submitted the Pre-Filing Meeting Request Form as we will not be able to accept your application without this important first step. The Pre-Filing Meeting Request Form is used in accordance with 40 C.F.R. Section 121.4(a) "At least 30 days prior to submitting a certification request, the project proponent shall request a pre-filing meeting with the certifying agency" and in accordance with 40 C.F.R. Section 121.5(b)(7), and (c)(5) all certification requests shall include documentation that a pre-filing meeting request was submitted to the certifying authority at least 30 days prior to submitting the certification request. Click here to read more information on when this form is needed prior to application submission or here to view the form.

Is this a courtesy copy notification?*			
ID# 20201093		Version	
Pre-fling Meeting or Request Date * 4/24/2021			
Attach documentation of Pre-Filing Mee Olick the upload button or drag and drop files here to att P 5813 2021 03 31 401 Poture Latter add	eting Request here:* tach document	1 11MD	
File type must be PDF		1. I I WID	
1e. Is this notification solely for the rec	ord because written approval is not re	equired?	
		*	
For the record only for DWR 401 Certified	cation:	○ Yes ☉ No	
For the record only for Corps Permit:		C Yes ⊙ No	
1f. Is this an after-the-fact permit applic	ation?*		
C Yes	⊙ No		
1g. Is payment into a mitigation bank or If so, attach the acceptance letter from ritigation bank or	in-lieu fee program proposed for miti or in-lieu fee program	gation of impacts?	
© Yes	C No		
Acceptance Letter Attachment Click the upload button or drag and drop files here to att B-5813 DMS Acceptance Letter.pdf FLETYFEMUST BEFDF	tach document	457.39KB	
1h. Is the project located in any of NC's	twenty coastal counties?*		
C Yes	© No		
1j. Is the project located in a designate ○ Yes ○ No	d trout watershed?*		
Link to trout information: http://www.saw.usa	ce.army.mil/Missions/Regulatory-Permit-P	rogram/Agency-Coordination/Trout.aspx	

B. Applicant Information

1a. Who is the Primary Contact?* Michael Turchy

1b. Primary Contact Email:* maturchy@ncdot.gov

1d. Who is applying for the permit?*

Owner(Check all that apply)

1e. Is there an Agent/Consultant for this project?*

⊙ Yes ⊙ No

2. Owner Information

2a. Name(s) on recorded deed:*

2b. Deed book and page no.:

2c. Contact Person:

(for Corporations)

2d. Address*

1c. Primary Contact Phone:* (xxx)xxx-xxxx (919)707-6157

Applicant (other than owner)

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Street Arthress	
1598 Mail Service Center	
Address Line 2	
Qtv	State / Province / Region
Raleigh	NC
Postal / Zip Code	Country
27699-1598	US
2e. Telephone Number:*	
(xxx)xxx-xxxx	
(919)707-6157	
2f. Fax Number:	
χοαχ-χοα(χοαχ)	
2g. Email Address:*	
pharris@ncdot.gov	
3. Applicant Information (if different from owner)	
3a. Name:*	
NCDOT	
3b. Business Name:	
(if applicable)	
3c. Address*	
Street Address	
1598 Mail Service Center	
Address Line 2	
City	State / Province / Region
Raleigh	NC
Postal / Zip Code	Country
27699-1598	US
3d. Telephone Number:*	
(919)707-6157	3e. Fax Number:
(xxx)xxx-xxxx	(xxx)xxx-xxxx
3f. Email Address:*	

maturchy@ncdot.gov

C. Project Information and Prior Project History

	1. Pr	oject	Informa	tion
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1a. Name of project:*

Replace Bridge 132 on NC 73 over Dutch Buffalo Creek

1b. Subdivision name:

(if appropriate)

1c. Nearest municipality / town:*

Mt. Pleasant

2. Project Identification

2a. Property Identification Number:	2b. Property size:
(tax PIN or parcel ID)	(in acres)
2c. Project Address	
Street Address	
Address Line 2	
Oty	State / Province / Region
Postal / Zip Code	Country

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2d. Site coordinates in decimal degrees

Please collect site coordinates in decimal degrees. Use between 4-6 digits (unless you are using a survey-grade GPS device) after the decimal place as appropriate, based on how the location was determined. (For example, most mobile phones with GPS provide locational precision in decimal degrees to map coordinates to 5 or 6 digits after the decimal place.)

Longitude:* -80.416077

-77.796371

3. Surface Waters

3a. Name of the nearest body of water to proposed project:*

Dutch Buffalo Creek

3b. Water Resources Classification of nearest receiving water:*

С

Surface Water Lookup

3c. What river basin(s) is your project located in?*

Yadkin-PeeDee

3d. Please provide the 12-digit HUC in which the project is located. *

030401050304

River Basin Lookup

4. Project Description and History

4a. Describe the existing conditions on the site and the general land use in the vicinity of the project at the time of this application:*

The current conditions include a two-lane, 4-span structurally deficient, and functionally obsolete bridge over Dutch Buffalo Creek. The surrounding land use is agricultural, residential, and fragmented forest land.

4b. Have Corps permits or DWR certifications been obtained for this project (including all prior phases) in the past?*

○ Yes ⊙ No ○ Unknown

4d. Attach an 8 1/2 X 11 excerpt from the most recent version of the USGS topographic map indicating the location of the project site. (for DWR)

Click the upload button or drag and drop files here to attach document

File type must be pdf

4e. Attach an 8 1/2 X 11 excerpt from the most recent version of the published County NRCS Soil Survey map depicting the project site. (for DWR)

Click the upload button or drag and drop files here to attach document

File type must be pdf

4f. List the total estimated acreage of all existing wetlands on the property:

0

4g. List the total estimated linear feet of all existing streams on the property:

(intermittent and perennial) 632

4h. Explain the purpose of the proposed project:*

The purpose of this project is to replace Bridge 132 - a structurally deficient and functionally obsolete bridge. The concrete superstructure and substructure have reached a degree of deterioration that can no longer be addressed by maintenance activities and is reaching the end of its useful life. In addition, the new bridge will provide a left turn lane to the adjacent intersection with Dutch Road, which has a higher crash rate than the state average.

4i. Describe the overall project in detail, including indirect impacts and the type of equipment to be used:*

The existing 190', 4-span bridge will be replaced with a 2-span bridge north (upstream) of the existing bridge. The existing bridge will remain in use during construction. Standard road and bridge building equipment such as trucks, dozers, and cranes will be used.

4j. Please upload project drawings fo	or the proposed project.			
Click the upload button or drag and drop files here t	o attach document			
B-5813 2021-03-05 Permit Drawings.pdf			5.88MB	
File type must be pdf				
5. Jurisdictional Determin	ations			
5a. Have the wetlands or streams be	en delineated on the property or	r proposed impact areas? *		
Yes	⊂ No		C Unknown	
Comments:				
5b. If the Corps made a jurisdictional C Preliminary C Approved • Not Veri	determination, what type of dete fied O Unknown O NA	ermination was made? [*]		
Corps AID Number: Example: SAW-2017-99999				
5c. If 5a is yes, who delineated the ju	risdictional areas?			
Name (if known):	Nathan Howell			
Agency/Consultant Company:	Three Oaks Engineering			
Other:				

6. Future Project Plans

6a. Is this a phased project?*

O Yes

Are any other NWP(s), regional general permit(s), or individual permits(s) used, or intended to be used, to authorize any part of the proposed project or related activity? This includes other separate and distant crossing for linear projects that require Department of the Army authorization but don't require pre-construction notification.

D. Proposed Impacts Inventory	\bigcirc

1. Impacts Summary

1a. Where are the impacts associated with your project? (check all that apply):

No

Wetlands
 Open Waters

Buffers

(~)

3. Stream Impacts

If there are perennial or intermittent stream impacts (including temporary impacts) proposed on the site, then complete this question for all stream sites impacted.

Streams-tributaries

Pond Construction

"S." will be used in the table below to represent the word "stream".

	3a. Reason for impact * (?)	3b.Impact type *	3c. Type of impact [*]	3d. S. name *	3e. Stream Type * (?)	3f. Type of Jurisdiction *	3g. S. width *	3h. Impact length *
S1	Site 1: Existing Bridge Removal	Permanent	Bank Stabilization	Dutch Buffalo Creek	Perennial	Both	21 Average (feet)	63 (linear feet)
S2	Site 1: Existing Bridge Removal	Temporary	Workpad/Causeway	Dutch Buffalo Creek	Perennial	Both	21 Average (feet)	20 (linear feet)
S3	Site 2: Stream Relocation	Permanent	Relocation	UT to Dutch Buffalo Creek	Perennial	Both	7 Average (feet)	219 (linear feet)
S4	Site 2: Stream Relocation	Temporary	Dewatering	UT to Dutch Buffalo Creek	Perennial	Both	7 Average (feet)	117 (linear feet)

** All Perennial or Intermittent streams must be verified by DWR or delegated local government.

3i. Total jurisdictional ditch impact in square feet:

0

3i. Total permanent stream impacts:

282

3i. Total temporary stream impacts: 137

3i. Total stream and ditch impacts:

419

3j. Comments:

E. Impact Justification and Mitigation

1. Avoidance and Minimization

1a. Specifically describe measures taken to avoid or minimize the proposed impacts in designing the project:*

The new alignment shifts the road to the north to avoid taking two residences and a business on the south side of the road. The existing structure has two mass concrete bents that control the edges of Dutch Buffalo Creek. These will be removed, and the new structure will not have bents at the waters edge. Rip rap outlet pads will be utilized to dissipate the flow and minimize erosion. Special stilling basins place on both sides of Dutch Buffalo Creek will help minimize sediment from passing into the stream.

1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques:*

Best Management Practices will be adhered to.

2. Compensatory Mitigation for Impacts to Waters of the U.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	C No

2 c. lfyes,n	nitigation is	required	by (check al	I that apply):
DWR				Corps

2d. If yes, which mitigation option(s) will be used for this project?

Mitigation bank Payment to in-lieu fee Permittee Responsible Mitigation program

4. Complete if Making a Payment to In-lieu Fee Program

4a. Approval letter from in-lieu fee program is attached	
 Yes O No 	
4b Stream mitigation requested	
(linear feet)	4c. If using stream mitigation, what is the stream temperature
219	warm
NC Stream Temperature Classification Maps can be found under the N	Vitigation Concepts tab on the Wilmington District's RIBITS website.
4d. Buffer mitigation requested (DWR only):	4e. Riparian wetland mitigation requested:
4d. Buffer mitigation requested (DWR only): (square feet)	4e. Riparian wetland mitigation requested: (acres)
4d. Buffer mitigation requested (DWR only): (square feet) 4f. Non-riparian wetland mitigation requested:	4e. Riparian wetland mitigation requested: (acres) 4g. Coastal (tidal) wetland mitigation requested:

F. Stormwater Management and Diffuse Flow Plan (required by DWR)

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*** Recent changes to the stormwater rules have required updates to this section .***

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? ⊙ No

O Yes

For a list of options to meet the diffuse flow requirements, click here.

If no, explain why:

2. Stormwater Management Plan

2a. Is this a NCDOT project subject to compliance with NCDOT's Individual NPDES permit NCS000250?*

• Yes • No

Comments:

G. Supplementary Information

1. Environmental Documentation

1a. Does the project involve an expendit	ure of public (federal/state/local) funds or the use of public (fede	eral/state) land?*
Yes	C No	
1b. If you answered "yes" to the above, c Environmental Policy Act (NEPA/SEPA)?*	loes the project require preparation of an environmental docum	ent pursuant to the requirements of the National or State (North Carolina)
Yes	C No	
1c. If you answered "yes" to the above, h	as the document review been finalized by the State Clearing Hou	use? (If so, attach a copy of the NEPA or SEPA final approval letter.) $^{m \star}$
Yes	C No	
NEPA or SEPA Final Approval Letter		
Click the upload button or drag and drop files here to attac	-h document	
B-5813 MCDC.pdf		1.12MB
FILETYPE MUST BE PDF		

2. Violations (DWR Requirement)

2a. Is the site in violation of DWR Water Quality Certification Rules (15A NCAC 2H .0500), Isolated Wetland Rules (15A NCAC 2H .1300), or DWR Surface Water or Wetland Standards or Riparian Buffer Rules (15A NCAC 2B .0200)?* No

O Yes

3. Cumulative Impacts (DWR Requirement)

3a. Will this project (based on past and reasonably anticipated future impacts) result in additional development, which could impact nearby downstream water quality?*

3b. If you answered "no," provide a short narrative description.

4. Sewage Disposal (DWR Requirement)

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4a. Is sewage disposal required by DWR for this project?*
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○ Yes ⊙ No ○ N/A

5. Endangered Species and Designated Critical Habitat (Corps Requirement)

5a. Will this project occur in or near an area	a with federally protected species or habitat? *	
⊙ Yes	C No	
5b. Have you checked with the USFWS cond	cerning Endangered Species Act impacts?*	
O Yes	⊙ No	
5d. Is another Federal agency involved?*		
O Yes	No	C Unknown
5e. Is this a DOT project located within Divis	sion's 1-8? *	
⊙Yes ⊙ No		
5f. Will you cut any trees in order to conduc	t the work in waters of the U.S.?*	
• Yes O No		
5g. Does this project involve bridge mainte	nance or removal?*	
⊙ Yes ○ No		
5g(1). If yes, have you inspected the bridge Appendix F, pages 3-7.	for signs of bat use such as staining, guano, l	pats, etc.? Representative photos of signs of bat use can be found in the NLEB SLOPES,
⊙ Yes ○ No		
Link to the NLEB SLOPES document: http://saw-re	g.usace.army.mil/NLEB/1-30-17-signed_NLEB-SLOPES	&apps.pdf
If you answered "Yes" to 5g(1), did you disc	cover any signs of bat use? [*]	
© Yes ⊙ No © Unknown		
*** If yes, please show the location of the br	idge on the permit drawings/project plans.	
5h. Does this project involve the construct	ion/installation of a wind turbine(s)?* [*]	
C Yes ⊙ No		
5i. Does this project involve (1) blasting, an ⊙ Yes ⊖ No	nd/or (2) other percussive activities that will be	conducted by machines, such as jackhammers, mechanized pile drivers, etc.? *
If yes, please provide details to include typ Click the upload button or drag and drop files here to attach or File must be FDF	e of percussive activity, purpose, duration, an locument	d specific location of this activity on the property.
5i What data sources did you use to determ	nine whether your site would impact Endanger	ed Species or Designated Critical Habitat?*
USFWS Website.	inte whether you one would impact Endinger	
Schweinitz's sunflower: No Effect, Habitat Preser	nt, last survey 10/21/2019	
Northern long-eared bat: NCDOT has determine	ed that the proposed action does not require separa	te consultation on the grounds that the proposed
action is consistent with the final Section 4(d) ru Section 7 responsibilities fulfilled for NLEB.	le. NCDOT may presume its determination is inform	ed by best available information and consider
Approximately 0.47 acre of trees will be removed	d in the project footprint for construction purposes.	
Consultation Documentation Upload		
Click the upload button or drag and drop files here to attach o	locument	
B-5813 Mussel Survey Report.pdf		1.06MB
B-5813 SLOPES Memo.pdf File type must be FDF		235.3KB
6. Essential Fish Habitat (Corp	os Requirement)	
6a. Will this project occur in or near an area	a designated as an Essential Fish Habitat? *	
C Yes	• No	

O Yes

6b. What data sources did you use to determine whether your site would impact an Essential Fish Habitat?* Review of online mapping sources.

7. Historic or Prehistoric Cultural Resources (Corps Requirement)

Link to the State Historic Preservation Office Historic Properties Map (does not include archaeological data: http://gis.ncdcr.gov/hpoweb/

7a. Will this project occur in or near an area the Trust designation or properties significant in N	t the state, federal or tribal governments have des orth Carolina history and archaeology)?*	ignated as having historic or cultural preservation status (e.g., Nation	al Historic
C Yes C	No		
7b. What data sources did you use to determin MCDC and Archaeology Memo.	whether your site would impact historic or archeo	ological resources? *	
7c. Historic or Prehistoric Information Upload Click the upload button or drag and drop files here to attach docur	ent		
B-5813 Catawba Indian Nation Response 2020-01-7	6.pdf	273.92KB	
B-5813 No Archaeology Survey Req.pdf Fle must be FDF		547.01KB	
8. Flood Zone Designation (Corp	s Requirement)		
Link to the FEMA Floodplain Maps: https://msc.t	ima.gov/portal/search		
8a. Will this project occur in a FEMA-designate	l 100-year floodplain?*		
© Yes C	No		
8b. If yes, explain how project meets FEMA req The project was determined by NCDOT to be a Type	Jirements: 2A Project during NCFMP and NCDOT MOA Project Rev	view.	
8c. What source(s) did you use to make the flor FEMA Flood Maps.	dplain determination?*		
Miscellaneous			\bigcirc
Comments			
Miscellaneous attachments not previously req	rested.		

B-5813 Cover letter.pdf File must be PDF or KMZ

262.93KB

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Signature

*

✓ By checking the box and signing below, I certify that:

- The project proponent hereby certifies that all information contained herein is true, accurate, and complete to the best of my knowledge and belief'; and
- The project proponent hereby requests that the certifying authority review and take action on this CWA 401 certification request within the applicable reasonable period of time. I have given true, accurate, and complete information on this form;
- .
- I agree that submission of this PCN form is a "transaction" subject to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic Transactions Act");
- I agree to conduct this transaction by electronic means pursuant to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic Transactions Act");
- I understand that an electronic signature has the same legal effect and can be enforced in the same way as a written signature; AND •
- I intend to electronically sign and submit the PCN form.

Full Name:*

Michael Anthony Turchy

Signature *

Michael Turchy

Date

4/26/2021



ROY COOPER Governor MICHAEL S. REGAN Secretary TIM BAUMGARTNER Director

July 30, 2020

Mr. Philip S. Harris, III, P.E. Environmental Analysis Unit North Carolina Department of Transportation 1598 Mail Service Center Raleigh, North Carolina 27699-1598

Dear Mr. Harris:

Subject: Mitigation Acceptance Letter:

B-5813, Replace Bridge 132 on NC 73 over Buffalo Creek, Cabarrus County

The purpose of this letter is to notify you that the Division of Mitigation Services (DMS) will provide the compensatory stream mitigation for the subject project. Based on the information supplied by you on July 29, 2020, the impacts are located in CU 03040105 of the Yadkin River basin in the Southern Piedmont (SP) Eco-Region, and are as follows:

Yadkin	Stream				Wetlands	Buffer (Sq. Ft.)		
03040105 SP	Cold	Cool	Warm	Riparian	Non- Riparian	Coastal Marsh	Zone 1	Zone 2
Impacts (feet/acres)	0	0	220.0	0	0	0	0	0

*Some of the stream and/or wetland impacts may be proposed to be mitigated at a 1:1 mitigation ratio. See permit application for details.

The impacts and associated mitigation needs were under projected by the NCDOT in the 2020 impact data. DMS will commit to implement sufficient compensatory stream mitigation credits to offset the impacts associated with this project as determined by the regulatory agencies using the delivery timeline listed in Section F.3.c.iii of the In-Lieu Fee Instrument dated July 28, 2010. If the above referenced impact amounts are revised, then this mitigation acceptance letter will no longer be valid and a new mitigation acceptance letter will be required from DMS.

If you have any questions or need additional information, please contact Beth Harmon at 919-707-8420.

Sincerely,

Eizabeth Harmon

James B. Stanfill DMS Asset Management Supervisor

cc: Mr. Monte Matthews, USACE – Raleigh Regulatory Field Office Ms. Amy Chapman, NCDWR File: B-5813



North Carolina Department of Environmental Quality | Division of Mitigation Services 217 W. Jones Street | 1652 Mail Service Center | Raleigh, North Carolina 27699-1652 919.707.8976

Highway – – Stormwat (Version 2.08; Released A	April 2018)	North Carolina Department of Transportation Highway Stormwater Program STORMWATER MANAGEMENT PLAN FOR NCDOT PROJECTS										
WBS Element:	45767.1.1	TIP No.:	B-5813		County(ies):	Cabarrus				Page	1	of 1
				(General Project	Information						
WBS Element:		45767.1.1		TIP Number:	B-5813		Project	Type:	Bridge Replaceme	nt	Date:	3/5/2021
NCDOT Contact:		David Stutts		•		Contractor / Desig	ner:	STV Engine	eers, Inc. / Edward \	Vance		
	Address:	1020 Birch Ridge Raleigh, NC 276	e Drive 10				Address:	900 West T Charlotte, N	rade Street, Ste. 71 NC 28202	15		
	Phone:	(919) 707-6442					Phone:	<mark>(704) 816-2</mark>	2556			
	Email:	dstutts@ncdot.go	v				Email:	Edward.Va	nce@stvinc.com			
City/Town:			Mount F	Pleasant		County(ies):	Caba	irrus				
River Basin(s):		Yadkin-l	Pee Dee			CAMA County?	N	0				
Wetlands within Pro	ject Limits?	No										
					Project Des	cription						
Project Length (lin. i	niles or feet):	0.348	MILES	Surrounding	Land Use:	Partially Wooded						
				Proposed Proje	ect				Existing	y Site		
Project Built-Upon A	vrea (ac.)		1.0		ac.			0.8	ac).		
Typical Cross Section	on Description:	Bridge : Two 12' Approach: Two 1	lanes and 4' shou 2' lanes, 4' paved	Ilders at both ends I shoulders	s of the travel lan	les.	Bridge: Two 12' lanes with 2' shoulders at both ends of the travel lanes. Approach: Two 12' lanes, variable shoulders					
Annual Avg Daily Tr	affic (veh/hr/day):	Design/Future	e: 1	0800	Year	2040	Existing:		8600		Yea	ar: 2020
General Project Nar (Description of Minin Quality Impacts)	rative: mization of Water	The existing 190' bridge will have 4 railings on both th bridge will be pla being maintained All proposed ditci bridge to convey TB2GI's is placed Il Riprap to preve	, 4 span bridge ov I' end bent caps v he sides of the tra- ced about 50' ups- l in the proposed of hes and the chan runoff and meet t d in the shoulder he ent future erosion	ver Dutch Buffalo vith 1.5:1 sloping a wel lanes. This given stream of the exist condition. A propo- nel change will flo he requirement of berm gutters to co and stream migra	Creek on NC 73 abutments skewe ves the bridge a ignn osed ditch will co w towards and ir i 4' allowable spr nvey the bridge i tion. Impervious	Is being replaced will ed at 110 degrees. Til 44' clear roadway wid nent, keeping the exis nvey water in place o to the Dutch Buffalo ead. These deck drai runoff into a propose dikes and dewatering	th a 2-span brin he bridge will b atth and a 47'-3 sting bridge du of the existing of Creek. 6" vert ins will not diso d lateral ditch l g operation wil	dge with a s be super elev "riring constru channel (per ical PVC pip charge direct ines with CL I be perform	can arrangement of vated at 4% with 12' width. This existing l ction as a detour bri directions from NCI e slots at 5' centers tly above the stream -B Riprap. The abut ed during the installa	1@85 and 1 travel lanes, bridge will be idge. The exi DOT) with a 5 line the low 1. At the begi tments of the ation of strea	1@123'(63 , 4' shoulde s removed, isting drain 9' base and end of the nning of th bridge are imbank sta	" Girder). The prs and bridge and the proposed age patterns are 1 3:1 side slopes. super-elevated e bridge one ⇒ protected by CL- bilization (riprap).
Quefe e a Mieten De du	(4)-	1	Dutch Duf	fala Ora ala	Waterbody In	formation	des Ne i	1		0.47.44.(5)		
Surface water Body	(1):		Dutch But	Briman: Classif	laation	NOUWR Stream In			1	13-17-11-(5)		
NCDWR Surface Water Classification for Water Body			Primary Classif Supplemental C	lcation: lassification:	Class							
Other Stream Classification:		No	one									
Impairments:		No	one									
Aquatic T&E Specie	s?	No	Comments:									
NRTR Stream ID:								Buffer Rule	es in Effect:			N/A
Project Includes Bri	dge Spanning Wate	r Body?	Yes	Deck Drains Dis	scharge Over Bu	uffer?	N/A	Dissipator	Pads Provided in I	Buffer?		N/A
Deck Drains Discha	ge Over Water Bod	y?	No	(If yes, provi	de justification in	the General Project	Narrative)	(If yes, d	escribe in the Gene	eral Project N	arrative; if	no, justify in the
(If yes, provid	de justification in the	- General Project N	arrative)						General	l Project Nari	rative)	











			1									
			WETLAND PERMIT IMPACT SOMMARY					SURFACE WATER IMPACTS				
Site No.	Station (From/To)	Structure Size / Type	Permanent Fill In Wetlands	Temp. Fill In Wetlands	Excavation in Wetlands	Mechanized Clearing in Wetlands	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
SITE 1	21+65.10 RT / 21+93.07 RT 22+09.39 RT / 22+22.34 RT	BANK STABILIZATION (TEMPORARY IMPACTS DUE TO IMPERVIOUS DIKE)	(40)	(00)	(40)	(40)	(00)	0.01	0.02	63	20*	(11)
SITE 2	19+95.00 LT / 21+77.74 RT 21+95.93 LT / 22+23.18 LT	CHANNEL RELOCATION						0.04	0.01	219	117	
TOTALS:								0.05	0.03	282	137	
*TEMPORA	ARY IMPACTS LENGTH TOTA	L = 83' (63' TAKEN INTO ACCOUNT IN PERMANENT I	MPACTS)						NC I BRIDGI	DEPARTMENT O DIVISION O E #132 OVER D ON (P CABARRU B-5	OF TRANSPO F HIGHWAYS UTCH BUFFA NC 73) IS COUNTY 5813	RTATION S ALO CREEK



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

ROY COOPER GOVERNOR J. ERIC BOYETTE Secretary

DATE:	August 24, 2020
TO:	Jeff Hemphill, Senior Environmental Specialist Environmental Coordination & Permitting Group Western, EAU
FROM:	Chris Manley, Environmental Program Consultant Biological Surveys Group, EAU
SUBJECT:	Section 7 survey results for the northern long-eared bat (<i>Myotis septentrionalis</i>) associated with the replacement of Bridge 132 over Dutch Buffalo Creek on NC 73 in Carbarrus County, TIP No. B-5813 .

The North Carolina Department of Transportation (NCDOT, Division 10) proposes to replace Bridge No. 132 over Dutch Buffalo Creek on NC 73 in Carbarrus County, TIP No. B-5813. The existing bridge is a four-span structure with reinforced concrete deck girders, abutments, and bents. The guardrail is also constructed of concrete. The overall length of the structure is 190 feet.

The project to replace Bridge No. 132 has been reviewed for effects on the northern longeared bat (NLEB). As of May 4, 2015, NLEB is listed by the U.S. Fish and Wildlife Service (USFWS) as "Threatened" under the Endangered Species Act of 1973. As of July 17, 2020, NLEB is listed by USFWS (<u>http://www.fws.gov/raleigh/species/cntylist/nc counties.html</u>) as "probable/potential" in Carbarrus County.

According to the North Carolina Natural Heritage Program (NHP) Biotics Database, most recently updated July 2020, there are no known hibernacula within 25 miles of the project and no known NLEB roost trees occur within 150 feet of the project area.

NCDOT has also reviewed the USFWS Asheville Field office website (http://www.fws.gov/asheville/htmls/project review/NLEB in WNC.html) for consistency with NHP records. This project is located entirely outside of the red highlighted areas (12-digit HUC) that the USFWS Asheville Field Office has determined to be representative of an area that may require consultation. The closest 12 digit (030501010502) red HUC is approximately 87 miles to the west northwest (Johns River) in Avery County.

On August 24, 2020, NCDOT biologist assessed Bridge No. 132 for potential NLEB habitat. Suitable roosting cervices were present on the structure, but no evidence (bats, guano, or staining) of bats was observed. This structure survey is outside the typical survey window (May 15 – August 15) we have for the western part of North Carolina. Chris Manley had a phone conversation with Susan Cameron with the USFWS on August 21, 2020 asking if this project (B-5813) could be looked outside the survey window. USFWS agreed to letting NCDOT perform the survey later in August.

Based on the lack of evidence of bats on the bridge, no known roost trees within 150 feet of the project area, and being 87 miles to the closest 12 digit red HUC, NCDOT recommends a Biological Conclusion of **NO EFFECT** for the NLEB.

Final design and environmental impacts information will be provided in the permit application.

If you need any additional information, please contact Chris Manley at 919-707-6135.

Freshwater Mussel Survey Report

Replacement of Bridge No. 132 on NC 73 Over Dutch Buffalo Creek Cabarrus County, North Carolina STIP # B-5813 WBS Element # 45767.1.1

Prepared For:



NC Department of Transportation Raleigh, North Carolina

Contact Person:

Jared Gray Biological Surveys Group North Carolina Department of Transportation jgray@ncdot.gov 1598 Mail Service Center Raleigh NC 27699-1598

May 18, 2018

Prepared by:



900 Ridgefield Drive, Suite 350 Raleigh, NC 27609

Contact Person:

Neil Medlin Project Manager nmedlin@rkk.com 919-878-9560

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Appendix A. Figures:

- Figure 1: Project Vicinity & Survey Location Figure 2: NCNHP Element Occurrences Figure 3: NPDES Dischargers and 303(d) Listed Streams

1.0 Introduction

The North Carolina Department of Transportation (NCDOT) proposes the replacement of Bridge No. 132 over Dutch Buffalo Creek on NC 73 in Cabarrus County (Appendix A, Figure 1). Dutch Buffalo Creek is in the Yadkin-Pee Dee River Basin. The Carolina Heelsplitter (*Lasmigona decorata*) is listed for Cabarrus County by the U.S. Fish and Wildlife Service (USFWS) as a protected species under the Endangered Species Act (ESA).

A review of the NC Natural Heritage Program (NCNHP) records, last accessed on April 23, 2018, indicated no element occurrence (EO) for the Carolina Heelsplitter located within a 5-mile buffer of the project bridge (Figure 2). The closest occurrence (EO ID 21454) is located in Goose Creek, approximately 17 stream miles downstream from the project location. This occurrence was first observed on August 26, 1987 and last observed on September 29, 2015.

As part of the federal permitting process that requires an evaluation of potential project related effects to federally protected species, Rummel, Klepper, and Kahl (RK&K) was contracted by NCDOT to conduct the freshwater mussel survey targeting the Carolina Heelsplitter.

2.0 Waters Affected

Dutch Buffalo Creek is located in the Yadkin-Pee Dee River Basin (HUC# 03040105). From the survey location, Dutch Buffalo Creek flows approximately 7.9 stream miles to the Rocky River.

2.1 NPDES dischargers

The closest permitted NPDES discharger is on a UT to Dutch Buffalo Creek (Figure 3). The Mount Pleasant Water Treatment Plant (NPDES Permit # NC0044717) is a minor facility located approximately 1.8 stream miles upstream of the project location.

2.2 303(d) Classification

Dutch Buffalo Creek is not on the North Carolina Department of Environmental Quality (NCDEQ) - Division of Water Resources 2016 303(d) list of impaired streams.

3.0 Target Federally Protected Species Description

3.1 Carolina Heelsplitter (Lasmigona decorata)

3.1.1 Characteristics

The Carolina Heelsplitter was first described in 1852. This species has an ovate, trapezoidshaped shell. The outer surface of the shell varies from greenish brown to dark brown in color, and shells from younger specimens have faint greenish brown or black rays. The nacre (inside surface) is often pearly white to bluish white, grading to orange in the deepest part of the shell. However, in older specimens the entire nacre may be a mottled pale orange. The shell of the largest known specimen of the species measures 4.6 inches (11.684 centimeters) in length.

3.1.2 Distribution and Habitat Requirements

The Carolina Heelsplitter was historically known from several locations within the Catawba and Pee Dee River systems in North Carolina and the Pee Dee and Savannah River systems, and possibly the Saluda River system in South Carolina. In North Carolina, the species is now known only from a handful of streams in the Pee Dee and Catawba River systems. Today, only ten populations are known to survive. The species exists in very low abundances, usually within 6 feet of shorelines, throughout its known range.

The general habitat requirements for the Carolina Heelsplitter are shaded areas in large rivers to small streams, often burrowed into clay banks between the root systems of trees, or in runs along steep banks with moderate current. The more recent habitat where the Carolina Heelsplitter has been found is in sections of streams containing bedrock with perpendicular crevices filled with sand and gravel, and with wide riparian buffers.

4.0 Survey Efforts

A mussel survey was conducted in association with this project by RK&K personnel Neil Medlin (Permit # 16-ES00030), Hal Bain, and John Merritt on September 22, 2016.

4.1 Stream Conditions at Time of Survey: Dutch Buffalo Creek

The channel exhibited slack flow and ranged from 1-12 meters wide (widest below bridge) with eroded banks three meters high. The maximum depth here was 1.0 meter with an average depth of 0.25 meter. The substrate was dominated by silt and sand throughout the survey reach, with narrow gravel runs upstream of the bridge. Sand and gravel bars were abundant at this location. Moderately eroded banks consisted of clay, silt, and root mats. Beaver activity was observed in the form of gnawed sticks. A narrow forested buffer is present in the northwest quadrant (upstream) of the bridge crossing. The remaining three quadrants contain more substantial forested buffers along the survey location.

4.2 Methodology

The mussel survey was conducted from from approximately 400 meters downstream of the bridge crossing to approximately 100 meters upstream of the crossing for a total distance of approximately 500 meters. Areas of appropriate habitat were searched, concentrating on the stable habitats preferred by the target species. Visual surveys were conducted using glass bottom view buckets (bathyscopes) along with tactile methods that were employed where appropriate. All freshwater bivalves were recorded and returned to the substrate. Timed survey efforts provided Catch Per Unit Effort (CPUE) data for each species.

5.0 Results

A total of 3.5 person-hours of survey time was spent in the survey location with two species of freshwater mussels found (Table 1).

Scientific Name	Common Name	# live	CPUE
Elliptio complanata	Eastern Elliptio	1 (+2 shells)	0.29/hr
Villosa vaughaniana	Carolina Creekshell	1	0.29/hr

 Table 1. CPUE for Freshwater Mussels in Dutch Buffalo Creek

6.0 Discussion/Conclusions

The results indicate that the study area supports a sparse freshwater mussel fauna of common species. Carolina Heelsplitter individuals were not found during the survey. Previous surveys in the vicinity of the subject bridge have resulted in no discovery of Carolina Heelsplitter within a 10-mile radius of the study location. Based on the presence of degraded habitat, distance to known Carolina Heelsplitter records, and these survey results, completion of the proposed project will not affect this species.

Biological Conclusion for Carolina Heelsplitter: No Effect

7.0 References

- Adams, W. F., J. M. Alderman, R. G. Biggins, A. G. Gerberich, E. P. Keferl, H. J. Porter, and A.S. Van Devender. 1990. A report on the conservation status of North Carolina's freshwater and terrestrial molluscan fauna. N.C. Wildlife Resources Commission, Raleigh. 246 pp, Appendix A, 37 pp.
- Eads, C. B. and J.F. Levine. 2008. Carolina heelsplitter (*Lasmigona decorata*) and Tar River Spinymussel (*Elliptio steinstansana*) Conservation Research: July 2007-June 2008. Final report submitted to the North Carolina Wildlife Resources Commission. Raleigh, NC. 18 pp.
- LeGrand, Jr., H.E., J.T. Finnegan, S.E. McRae, S.P. Hall. 2010. Natural Heritage Program List of the Rare Animal Species of North Carolina. N.C. Natural Heritage Program, Raleigh, NC.
- North Carolina Department of Environmental Quality Division of Water Resources. 2018. 2016 North Carolina 303(d) List. <u>https://files.nc.gov/ncdeq/Water%Quality/Planning/TMDL/303d/2016/2016_NC_Categor</u> <u>y_5_303d_list.pdf</u> (Accessed 05/14/18).
- North Carolina Department of Environmental Quality. NPDES Wastewater Treatment Facility Permits. <u>http://data-</u> <u>ncdenr.opendata.arcgis.com/datasets/a86af4f7549343419b4c8177cedb3e4b_0</u> (Accessed 04/19/18).
- North Carolina Natural Heritage Program (NCNHP). 2018. nheo-2018-04. Natural Heritage Element Occurrence polygon shapefile. April, 2018.

North Carolina Wildlife Resources Commission. Unpublished Aquatics Database.

U.S. Fish and Wildlife Service (USFWS). 2011. Carolina heelsplitter (*Lasmigona decorata*) Species Profile. Raleigh Ecological Field Office Web site (Accessed 11/30/16). https://www.fws.gov/raleigh/species/es_carolina_heelsplitter.html

U.S. Fish and Wildlife Service (USFWS). 1997. Carolina heelsplitter (*Lasmigona decorata*) Recovery Plan. Atlanta, Georgia. 30 pp.

Appendix A

Figures







16-01-00074



NO ARCHAEOLOGICAL SURVEY REQUIRED FORM

This form only pertains to ARCHAEOLOGICAL RESOURCES for this project. It is not valid for Historic Architecture and Landscapes. You must consult separately with the Historic Architecture and Landscapes Group.



PROJECT INFORMATION

Project No:	B-5813		Count	y:	Caba	irrus	
WBS No:	45767.1.1		Docun	nent:	M C	С	
F.A. No:			Fundii	ng:	🛛 St	tate	E Federal
Federal Permit Requ	ired?	Yes	🗌 No	Permit T	ype:	usace	

Project Description: NCDOT proposes to replace Bridge No. 132 on NC 73 over Dutch Buffalo Creek east of Mt. Pleasant in Cabarrus County. Conceptual design plans involves a new alignment adjacent to and north of the existing bridge. Traffic would be maintained on the existing Bridge No. 132. the two bridges would be replaced in-place with a single wider bridge using a phased on-site detour and cross-over during construction. The project length is about 1800 feet (0.34 miles) with a construction width expanding to the north a maximum of about 80 feet beyond the existing northern ROW at the new location bridge for construction and fill, tapering back to the existing ROW in either direction. For purposes of this archaeological review, the APE is about 1800 feet (0.34 miles) in length and 150 feet wide (approximate old and new ROW).

This is a state funded and federally permitted undertaking and therefore falls under Section 106 of the National Historic Preservation Act for archaeological review.

SUMMARY OF CULTURAL RESOURCES REVIEW

Brief description of review activities, results of review, and conclusions:

The bridge to be replaced is located along NC 73 in a rural setting east of Mt. Pleasant in Cabarrus County. at an urbanized crossroads west of Concord.

USGS mapping (Mt. Pleasant) and aerial photography was studied (see Figures 1 and 2). Google and Bing street view tools were used and confirm the forested and cleared nature of the APE which is rolling on the approaches from the east and west on NC 73. The area of greatest impact at the bridge is listed as Chewacla sandy loam (ChA) and is frequently flooded.

According to USGS mapping and GIS resources (data layer created by NCDOT archaeologist Paul J. Mohler), no cemetery is present at the APE.

Historic maps were examined to determine if any late historic structures, roads or other notations were present to help establish the a context of the recent past, especially farms, industry, land and transportation features which might offer hints to the presence of archaeological sites. The 1910 Soils Map of Cabarrus County (MC.016.1910a) depicts the road in roughly the same alignment and crossing, a includes "Kinleys Mill" mapped outside of the APE to the northeast on the other side of Dutch Road (SR 2604). The existing bridge is reportedly constructed in the 1920s with some later upgrades or repairs. By the 1930s, county highway maps (MC.016.1936n1 and MC.016.1938n) show that millpond and some industry upstream from the bridge at a distance and the location marked Kinleys Mill earlier is now shown as a prison camp or jail some distance from the road. Current USGS mapping shows no mill, though maybe now a sewage disposal or treatment plant and a former State Department of Corrections which research shows was shut down around 2011 and is now a brewery.

Some background and deed research was conducted to examine the nature of the industrial and institutional use of the nearby land to the north of the project area. Also, property and parcel mapping suggests that an



older road may have existed a few hundred feet south of the existing alignment, suggesting the 1920s bridge brought with it a change in the NC 73 alignment. It also suggests that existing structures along the older road would not likely be encountered by the current undertaking.

The Office of State Archaeology was visited to review archaeological mapping and to reference any known archaeological surveys and sites. This helps establish an archaeological context for comparison. One or more environmental reviews are nearby (ER 99-8601, ER 99-9322, etc.), along Dutch and also running east-west along a small tributary north of the project bridge. Neither resulted in documenation of archaeological sites in the nearby project area.

Brief Explanation of why the available information provides a reliable basis for reasonably predicting that there are no unidentified historic properties in the APE:

The bridge replacement adjacent to the existing facility will have some new ground disturbances, much of it cut and fill to adjust the terrain on the north side of NC 73. Examination of historic resources suggests a shift of the roadway in the first part of the twentieth century towards the north when the new bridge was built. Some industrial use in the form of one or more mills has occurred north of the APE but will not be impacted, likewise a state prison camp facility. The context doesn't indicate a high probabilty for archaeological sites within the APE. It is unlikely that significant, intact archaeological remains would be present and impacted by the project. For archaeological review, this federally permitted undertaking should be considered compliant with Section 106.

SUPPORT DOCUMENTATION

SUITORI DOCUMENTATION		
See attached: Map(s) Previous Survey Info Photocopy of County Survey Notes FINDING BY NCDOT ARCHAEOLOGIST	Photos Other:	Correspondence
NO ARCHAEOLOGY SURVEY REQUIRED		
Bara Omt		7/27/2018
NCDOT ARCHAEOLOGIST		Date







Figure 1. Vicinity of TIP # B-5813, PA 16-01-0074, the proposed replacement of Br. No. 132 on NC 73 over Dutch Buffalo Creek east of Mt. Pleasant.





Figure 2. Aerial map of TIP # B-5813, PA 16-01-0074, the proposed replacement of Br. No. 132 on NC 73 over Dutch Buffalo Creek east of Mt. Pleasant. The approximate APE is shown in yellow with most work occurring on the north side of NC 73 where the new bridge will be constructed. Note contour lines at 2-ft are overlaid on the aerial to illustrate the moderately hilled terrain. The tree line south of NC 73 approximates a possible historic road which is outside of the APE.

Catawba Indian Nation Tribal Historic Preservation Office 1536 Tom Steven Road Rock Hill, South Carolina 29730

Office 803-328-2427 Fax 803-328-5791



January 16, 2020

Attention: David Stutts NC Department of Transportation 1581 Mail Service Center Raleigh, NC 27699

Re. THPO #Project #Project Description2020-193-82B-5813Replacement of Bridge No. 132 on NC 73 over Dutch Buffalo Creek in Cabarrus County

Dear Mr. Stutts,

The Catawba have no immediate concerns with regard to traditional cultural properties, sacred sites or Native American archaeological sites within the boundaries of the proposed project areas. However, the Catawba are to be notified if Native American artifacts and / or human remains are located during the ground disturbance phase of this project.

If you have questions please contact Caitlin Rogers at 803-328-2427 ext. 226, or e-mail caitlinh@ccppcrafts.com.

Sincerely,

Cattle Rogers for

Wenonah G. Haire Tribal Historic Preservation Officer