

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

ROY COOPER GOVERNOR JAMES H. TROGDON, III Secretary

March 8, 2017

| MEMORANDUM TO: | | Mr. Louis Mitchell, P.E. Division 10 Engineer | 1 |
|----------------|-----|--|--|
| FROM: | for | Philip S. Harris, III, P.E., Manager Natural Environment Section | LAT |
| SUBJECT: | | Cabarrus and Rowan Counties; Inters Interchange Improvements from nort Federal Aid No. FANHIMF-085-2(6 TIP I-3802A . | state 85 (I-85) Widening and th of NC 73 to north of SR 2180; 1)55; WBS 36780.1.2; |

Attached are the modified US Army Corps of Engineers General Permit and N.C. Division of Water Resources (NCDWR) Water Quality Certification. All environmental permits have been received for the construction of this project.

A copy of this permit package will be posted on the NCDOT website at: <u>https://connect.ncdot.gov/resources/Environmental/Pages/default.aspx</u> **Quick Links>Permit Documents> Issued Permits.**

cc: w/o attachment (see website for attachments)

Mr. Andy Gay, P.E. Contracts Management
Mr. Larry Thompson, Division 10 Environmental Officer
Dr. Majed Al-Ghandour, P.E., Programming and TIP
Mr. Khaled Al-Akhdar, Design Build
Ms. Brenda Moore, P.E., Roadway Design
Mr. Carl Barclay, P.E., Utilities Unit
Mr. Jay Twisdale, P.E., Hydraulics
Mr. Brian Hanks, P.E., Structure Design
Mr. Mark Staley, Roadside Environmental
Mr. Ron Hancock, P.E., State Roadway Construction Engineer
Mr. Brian Yamamoto, P.E., PDEA Western Section
Ms. Beth Harmon, NC Division of Mitigation Services
Mr. Philp Ayscue, Single Audit Compliance

Location: 1020 Birch Ridge Drive Raleigh NC 27610

PROJECT COMMITMENTS

T.I.P. Project No. I-3802A Interstate 85 (I-85) Widening and Interchange Improvements from north of NC 73 (Davidson Highway/Exit 55) to north of SR 2180 (Lane Street/Exit 63) Cabarrus and Rowan Counties Federal Aid Project No. FANHIMF-085-2(61)55 W.B.S. No. 36780.1.2

COMMITMENTS FROM PROJECT DEVELOPMENT AND DESIGN

<u>Roadway Design Unit, Hydraulics Unit, Structure Design Unit, Division 10 – Provisions for</u> <u>Greenway</u>

The proposed new I-85 bridges over Irish Buffalo Creek will be designed with adequate vertical and horizontal clearance to accommodate the future Irish Buffalo Creek greenway crossing under I-85. Coordination with the local municipality will be performed during design of those bridges to ensure they are compatible with the future greenway crossing.

<u>Project Development and Environmental Analysis Unit (PDEA) – NEPA/Section 404</u> <u>Merger Process</u>

NEPA/Section 404 Merger Concurrence Points 3 (Least Environmentally Damaging Practicable Alternative) and 4 (Avoidance and Minimization) will be completed for the project.

PDEA, Division 10, Roadway Design

Blake House, Goodman Farm, Caldwell House, and Barrier House

Blake House, Goodman Farm, Caldwell House, and Barrier House are National Register-eligible properties. These properties are located within the project's Area of Potential Effects. Currently, the proposed project will have No Effect on the Blake House and Goodman Farm and No Adverse Effect on Caldwell House and Barrier House. If design plans change near any of the properties, impacts will be re-evaluated and appropriate coordination with the Department of Cultural Resources will be undertaken.

North Cabarrus Park

North Cabarrus Park, owned and managed by Cabarrus County, is located on the west side of I-85 near Irish Buffalo Creek. No additional right-of-way or easements are proposed along I-85 on park property; thus, the project will not impact North Cabarrus Park. If design plans change and result in impacts to North Cabarrus Park, a Section 4(f) evaluation will be prepared.

Hydraulics Unit – Floodplain Mapping Program Coordination

The NCDOT Hydraulics Unit will coordinate with the North Carolina Floodplain Mapping Program (FMP), the delegated state agency for administering FEMA's National Flood Insurance Program, to determine the status of the project with regard to the applicability of NCDOT's Memorandum of Agreement with the FMP or approval of a Conditional Letter of Map Revision (CLOMR) and subsequent final Letter of Map Revision (LOMR).

Divisions 9 and 10 – As-Built Construction Plans

The Divisions shall submit sealed as-built construction plans to the Hydraulics Unit upon completion of project construction, certifying that the drainage structure(s) and roadway embankment that are located within the 100-year floodplain were built as shown in the construction plans, both horizontally and vertically.

Division 10 and Roadside Environmental Unit – Landscaping

NCDOT will provide vegetative screening along the Dale Earnhardt Boulevard southbound offramp, which utilizes Jaycee Road.

Congestion Management Unit – Interchange Modification Report

Due to the proposed improvements at the I-85 interchanges in the study area, an interchange modification report is being prepared and will be submitted to the Federal Highway Administration for approval following completion of the final environmental document.

Design-Build Unit

During Final Design, NCDOT will investigate the feasibility of a roundabout at Vinehaven Drive and Copperfield Boulevard.

NCDOT will provide a leftover from northbound US 29-601 (Cannon Boulevard) to S. Ridge Avenue, and will provide access from Ridge Avenue to the Rider Transit Center. The proposed roundabout on S. Main Street will be removed from the design.

NCDOT will connect S. Ridge Avenue to US 29-601 with right-in/right-out access.

NCDOT will provide full access at the intersection of Old Earnhardt Road and Dale Earnhardt Boulevard.

NCDOT will coordinate with representatives of F&M Bank to minimize impacts.

NCDOT will modify the proposed service road at the Dale Earnhardt Boulevard interchange to provide improved access to F&M Bank, the Chamber of Commerce Building, and Lowe's Home Improvement store.

NCDOT will provide a leftover into the Pilot Truck Stop on Lane Street.

NCDOT will provide right-in/right-out access to Motel 6, Waffle House, and Brantley property on Lane Street. The proposed service road will be removed.

NCDOT will coordinate, on a case-by-case basis, the location of bus stops, sidewalks, and pedestrian controls with the City of Concord, City of Kannapolis, and Rider Transit.

NCDOT will coordinate with local officials regarding emergency access in the NC 152/US 29 interchange area.

COMMITMENTS FROM PERMITTING

PDEA – Natural Environment Section, Division 10

By letter dated July 8, 2015 from the Fish and Wildlife Service (FWS), NCDOT has committed to the following measures to avoid and minimize any potential impacts to the northern longeared bat (NLEB) which are hereby incorporated into the USACE Section 404 permit as special conditions:

- 1. Tree clearing associated with the areas listed below will occur only from August 15th to May 15th of any given year. Locations are referenced to project plan sheets.
 - Hazardous spill basin near station 450
 - Hazardous spill basin at station 479
 - <u>Y-line Y3 from station 57+00 to 68+00;</u>
- 2. The area of the Moose Road structure will be highlighted as an Environmentally Sensitive Area and marked on the final construction plans;
- 3. Construction work that takes place under the Moose Road structure will occur only at night from April 15th to October 15th;
- 4. Clearing will not occur within 50 feet of the Moose Road structure and any other clearing in the vicinity of the structure will be conducted from August 15th to May 15th;
- 5. The Moose Road structure will be inspected weekly from April 15th to October 15th during construction to check for the presence of bats. If bats are found roosting, every effort will be made to identify the bat species present and photographs will be taken. At a minimum, the date, time, location, and number of bats observed will be recorded and forwarded to the USFWS after the inspection is completed.

At the Moose Road structure, if after two consecutive months bats have not been seen or, if bats continue to use the structure and species can be identified and are determined to not be federally

I-3802A Permit Greensheet March2017 Page 3 of 4 listed bats, then the applicant can discuss with FWS the discontinuation of the inspections of the Moose Road structure. If a federally listed species is identified, further consultation with FWS would be necessary.

The January 13, 2017 modification of the USACE General Permit 31 has updated the special conditions related to the NLEB. The following language and conditions were included in the Special Conditions of this modification and replace the originally-issued special conditions listed above:

The USACE conducted a GIS review of the project and surrounding areas and also reviewed the most current maps of confirmed/known hibernation and maternity (tree) sites for the NLEB (Myotis septentrionalis). This project is located outside of the highlighted areas/red 12-digit HUCs and does not require prohibited incidental take; as such, this project (with the exception of the area around the Moose Road Bridge structure addressed below) meets the criteria for the 4(d) rule and any associated take is exempted/excepted.

Moose Road Structure:

NCDOT has committed to measures to avoid and minimize any potential impacts to NLEB as described below.

1. In January 2017, representatives from NCDOT Division 10 will investigate the bridge for the presence of bats;

2. During the investigation, Division staff will inspect the expansion joints for bats by utilizing crane equipment that will be lowered over the side of the bridge, and;

3. Upon immediate completion of the January 2017 surveys, when it is determined that the bridge is clear of bats, representatives from NCDOT Division 10 will install foam sealant in the expansion joints to eliminate further roosting of bats.

Division 10

The NCDOT shall design, construct, and operate and maintain hazardous spill catch basins (HSCBs) at stream crossings within the Critical Area (CA) watershed. The HSCBs shall be located at Station numbers:

- HSB-1 from Station 388+15 to 390+35 -L- LT
- HSB-2 from Station 409+50 to 411+35 -L- LT
- HSB-3 from Station 412+80 to 417+15 -L- LT
- HSB-4 from Station 425+60 to 432+75 -L- LT
- HSB-5 from Station 440+25 to 442+30 -L- LT
- HSB-6 from Station 447+65 to 448+55 -L- LT
- HSB-7 from Station 478+00 to 478+80 -L- LT

I-3802A Permit Greensheet March 2017 Page 4 of 4

| | U.S. ARMY CORPS OF ENGINEERS WILMINGTON DISTRICT |
|---|--|
| is the | Action Id. SAW-2008-03229 County: Rowan U.S.G.S. Quad: NC-CONCORD |
| | GENERAL PERMIT (REGIONAL AND NATIONWIDE) VERIFICATION |
| Permittee: | North Carolina Department of Transportation |
| Address: | 1548 Mail Service Center |
| Telephone Numbe | Raleigh, NC, 27699-1548 ar: <u>919-707-6100</u> |
| Size | 7.6 mile corridor Nearest Town Kannapolis |
| Nearest Waterway USGS HUC | Cold Water CreekRiver BasinRocky03040105CoordinatesLatitude: 35.4681124465766 |
| Location description | Longitude: <u>-80.5901896486423</u> |
| NC 73 (Davidson | Highway/Exit 55) to north of SR 2180 (Lane Street/Exit 63), in Cabarrus and Rowan Counties, North |
| <u>Carolina</u> . | * |
| Description of pro Widening and Int changes to impact | jects area and activity: <u>This permit verification replaces the permit verification for the Interstate 85 (I-85)</u> erchange Improvements Project (TIP Project No. I-3802A), issued 7/16/2015 and authorizes the following ts: |
| Site UC-1: after- | the-fact authorization of 19 If of temporary stream impact resulting from the installation of utility line. |
| Site 2: additional stabilization requ | 35 If of bank stabilization and a reduction of 20 If of temporary impact resulting from additional ested by DWR to ensure erosion doesn't result due to vegetation removal. |
| Site 18: after-the DWR to ensure en | -fact authorization of 30 linear feet of bank stabilization resulting from additional stabilization requested by rosion doesn't result due to vegetation removal. |
| In addition to mo Long-eared Bat. | dification to impacts, the permit verification includes a modified special condition regarding the Northern See Special Conditions for the modified condition. |
| Total impacts a as follows: the for stream stat | authorized, to include originally authorized in consideration of the modified impacts, are permanent impact to 4,338 linear feet (lf) of stream channel (of which 1,021 lf of impact is pilization), the temporary impact to 640 lf of stream channel and the impact to 0.41 acres o |
| wetlands (0.5 a | cres of permanent fill, 0.04 acres of excavation, and 0.07 acres of hand clearing). |
| Applicable Law: | Section 404 (Clean Water Act, 33 USC 1344) Sections 10 (Rivers and Harbors Act, 33 USC 403) |
| Authorization: Projects (Autho | Regional General Permit Number or Nationwide Permit Number: GP 198200031 NCDOT Bridges, Widening prized 2015) |
| | SEE ATTACHED RGP or NWP GENERAL, REGIONAL AND SPECIAL CONDITIONS |
| Your work is aut conditions and y | horized by the above referenced permit provided it is accomplished in strict accordance with the attached our submitted application and attached information dated <u>12/02/2016</u> . Any violation of the attached |

This verification will remain valid until the expiration date identified below unless the nationwide authorization is modified, suspended or revoked. If, prior to the expiration date identified below, the nationwide permit authorization is reissued and/or modified, this verification will remain valid until the expiration date identified below, provided it complies with all requirements of the modified nationwide permit. If the nationwide permit authorization expires or is suspended, revoked, or is modified, such that the activity would no longer comply with the terms and conditions of the nationwide permit, activities which have commenced (i.e., are under construction) or are under contract to commence in reliance upon the nationwide permit, will remain authorized provided the

conditions or deviation from your submitted plans may subject the permittee to a stop work order, a restoration order, a Class

I administrative penalty, and/or appropriate legal action.

activity is completed within twelve months of the date of the nationwide permit's expiration, modification or revocation, unless discretionary authority has been exercised on a case-by-case basis to modify, suspend or revoke the authorization.

Activities subject to Section 404 (as indicated above) may also require an individual Section 401 Water Quality Certification. You should contact the NC Division of Water Resources (telephone 919-807-6300) to determine Section 401 requirements.

For activities occurring within the twenty coastal counties subject to regulation under the Coastal Area Management Act (CAMA), prior to beginning work you must contact the N.C. Division of Coastal Management in Elizabeth City, NC, at (252) 264-3901.

This Department of the Army verification does not relieve the permittee of the responsibility to obtain any other required Federal, State or local approvals/permits.

If there are any questions regarding this verification, any of the conditions of the Permit, or the Corps of Engineers regulatory program, please contact Crystal Amschler at (828) 271₂7980 or Crystal.C.Amschler@usace.army.mil.

| | 6 | 1011 | | |
|---------------------------------|----------|--------|---------------|------------------------|
| Corps Regulatory Official: | | X | 0 | Date: January 13, 2017 |
| Expiration Date of Verification | on: 04/3 | 0/2020 | \rightarrow | |

SPECIAL CONDITIONS

1) Endangered Species

1) Endangered Species

The USACE conducted a GIS review of the project and surrounding areas and also reviewed the most current maps of confirmed/known hibernation and maternity (tree) sites for the NLEB (Myotis septentrionalis) at http://www.fws.gov/asheville/htmls/project review/NLEB in WNC.html.

This project is located outside of the highlighted areas/red 12-digit HUCs and does not require prohibited incidental take; as such, this project (with the exception of the area around the Moose Bridge Road structure addressed below) meets the criteria for the 4(d) rule and any associated take is exempted/excepted.

Moose Road Structure:

NCDOT has committed to measures to avoid and minimize any potential impacts to NLEB as described below.

1. In January 2017, representatives from NCDOT Division 10 will investigate the bridge for the presence of bats;

2. During the investigation, Division staff will inspect the expansion joints for bats by utilizing crane equipment that will be lowered over the side of the bridge, and;

3. Upon immediate completion of the January 2017 surveys, when it is determined that the bridge is clear of bats, representatives from NCDOT Division 10 will install foam sealant in the expansion joints to eliminate further roosting of bats.

2) Mitigation

In order to compensate for impacts associated with this permit, mitigation shall be provided in accordance with the provisions outlined on the attached Compensatory Mitigation Responsibility Transfer Form dated 7/16/2015. The requirements of this form, including any special conditions listed on this form, are hereby incorporated as special conditions of this permit authorization.

- 3.) Permit Distribution: The permittee shall require its contractors and/or agents to comply with the terms and conditions of this permit in the construction and maintenance of this project, and shall provide each of its contractors and/or agents associated with the construction or maintenance of this project with a copy of this permit. A copy of this permit, including all conditions, shall be available at the project site during construction and maintenance of this project.
- 4.) Notification of construction commencement and completion: The permittee shall advise the Corps in writing prior to beginning the work authorized by this permit and again upon completion of the work authorized by this permit.
- 5.) Pre Construction Meetings: The permittee shall schedule and attend a preconstruction meeting between its representatives, the contractors representatives, and the Corps of Engineers, Asheville Field Office, NCDOT Regulatory Project Manager, prior to any work within jurisdictional waters and wetlands to ensure that there is a mutual understanding of all the terms and conditions contained with this Department of Army Permit. The permittee shall schedule the preconstruction meeting for a time frame when the USACE, NCDCM, and NCDWQ Project Managers can attend. The permittee shall invite the Corps, NCDCM, and NCDWQ Project Managers a minimum of thirty (30) days in advance of the scheduled meeting in order to provide those individuals with ample opportunity to schedules and participate in the required meeting.
- 6.) Water Contamination: All mechanized equipment will be regularly inspected and maintained to prevent contamination of waters and wetlands from fuels, lubricants, hydraulic fluids, or other toxic materials. In the event of a spill of petroleum products or any other hazardous waste, the permittee shall immediately report it to the N.C. Division of Water Quality at (919) 733-3300 or (800) 858-0368 and provisions of the North Carolina Oil Pollution and Hazardous Substances Control Act will be followed.

- 7.) Borrow and Waste: To ensure that all borrow and waste activities occur on high ground and do not result in the degradation of adjacent waters and wetlands, except as authorized by this permit, the permittee shall require its contractors and/or agents to identify all areas to be used to borrow material or to dispose of dredged, fill or waste material. The permittee shall provide the Corps of Engineers with appropriate maps indicating the locations of proposed borrow or waste sites as soon as such information is available. The permittee will coordinate with the Corps of Engineers before approving any borrow or waste sites that are within 400 feet of any stream or wetland. All jurisdictional wetland delineations on borrow and waste areas shall be verified by the Corps of Engineers and shown on the approved reclamation plans. The permittee shall ensure that all such areas comply with the Special Condition (b) of this permit and shall require and maintain documentation of the location and characteristics of all borrow and disposal sites associated with this project. This documentation will include data regarding soils, vegetation and hydrology sufficient to clearly demonstrate compliance with Special Condition (b). All information will be available to the Corps of Engineers upon request. The permittee shall require its contractors to complete and execute reclamation plans for each waste and borrow site and provide written documentation that the reclamation plans have been implemented and all work is completed. This documentation will be provided to the Corps of Engineers within 30 days of the completion of the reclamation work.
- 8.) Sediment sluicing: The permittee shall take measures to control any bottom sediment that may be sluiced by draining the pond(s) on the project site. Sediment sluicing from ponds is not authorized by this permit.
- 9.) Violations of these conditions or violations of Section 404 of the Clean Water must be reported in writing to the Wilmington District U.S. Army Corps of Engineers within 24 hours of the permittee's discovery of the violation.

Determination of Jurisdiction:

- A. There are waters, including wetlands, on the above described project area that may be subject to Section 404 of the Clean Water Act (CWA) (33 USC § 1344) and/or Section 10 of the Rivers and Harbors Act (RHA) (33 USC § 403). This preliminary determination is not an appealable action under the Regulatory Program Administrative Appeal Process (Reference 33 CFR Part 331). However, you may request an approved JD, which is an appealable action, by contacting the Corps district for further instruction. Please note, if work is authorized by either a general or nationwide permit, and you wish to request an appeal of an approved JD, the appeal must be received by the Corps and the appeal process concluded prior to the commencement of any work in waters of the United States and prior to any work that could alter the hydrology of waters of the United States.
- B. There are Navigable Waters of the United States within the above described project area subject to the permit requirements of Section 10 of the Rivers and Harbors Act (RHA) (33 USC § 403) and Section 404 of the Clean Water Act (CWA) (33 USC § 1344). Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.
- C. There are waters, including wetlands, within the above described project area that are subject to the permit requirements of Section 404 of the Clean Water Act (CWA) (33 USC § 1344). Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.
- **D.** In the jurisdictional areas within the above described project area have been identified under a previous action. Please reference jurisdictional determination issued 6/6/2014. Action ID: **SAW-2008-03229**.

Basis For Determination: There are stream channels within the project site which are tributaries of Town Creek, Cold Water Creek and Irish Buffalo Creek which flows into the Yadkin River, a Section 10 water.

E. Attention USDA Program Participants

This delineation/determination has been conducted to identify the limits of Corps' Clean Water Act jurisdiction for the particular site identified in this request. The delineation/determination may not be valid for the wetland conservation provisions of the Food Security Act of 1985. If you or your tenant are USDA Program participants, or anticipate participation in USDA programs, you should request a certified wetland determination from the local office of the Natural Resources Conservation Service, prior to starting work.

F. Appeals Information (This information applies only to approved jurisdiction determinations as indicated in B and C above).

This correspondence constitutes an approved jurisdiction determination for the above described site. If you object to this determination, you may request an administrative appeal under Corps regulations at 33 CFR Part 331. Enclosed you will find a Notification of Appeal Process (NAP) fact sheet and request for appeal (RFA) form. If you request to appeal this determination you must submit a completed RFA form to the following address:

US Army Corps of Engineers South Atlantic Division Attn: Jason Steele, Review Officer 60 Forsyth Street SW, Room 10M15 Atlanta, Georgia 30303-8801 Phone: (404) 562-5137

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR part 331.5, and that it has been received by the Division Office within 60 days of the date of the NAP. Should you decide to submit an RFA form, it must be received at the above address by _____.

It is not necessary to submit an RFA form to the Division Office if you do not object to the determination in this correspondence.

Corps Regulatory Official:

Crystal Amschler

Date of JD: <u>6/6/2014</u> Expiration Date of JD: <u>4/30/2020</u> The Wilmington District is committed to providing the highest level of support to the public. To help us ensure we continue to do so, please complete our Customer Satisfaction Survey, located online at http://corpsmapu.usace.army.mil/cm apex/f?p=136:4:0.

Cc without enclosures NCDOT Mr. Roger Rochell, P.E., Technical Services Administrator, 1516 Mail Service Center, Raleigh, NC 27699-1516

NCDOT

Ms. Carla Dagnino Natural Environment Section Project Development and Environmental Analysis 1598 Mail Service Center Raleigh, NC 27699 -1598

| Action ID Number: | SAW-2008-03229 | County: Rowan and Cabarrus |
|---------------------------|------------------------|--|
| Permittee: | North Carolina Depar | tment of Transportation, Attn: Mr. Gregory Thorpe, Ph.D. |
| Project Name: | NCDOT I-85 widening | g Rowan and Cabarrus Counties (TIP I-3802) |
| Date Verification Iss | sued: <u>1/13/2017</u> | |
| Project Manager: <u>C</u> | rystal Amschler | |

Upon completion of the activity authorized by this permit and any mitigation required by the permit, sign this certification and return it to the following address:

US ARMY CORPS OF ENGINEERS WILMINGTON DISTRICT Attn: Crystal Amschler, Project Manager Asheville Regulatory Field Office 151 Patton Avenue, Room 208 Asheville, North Carolina 28801

Please note that your permitted activity is subject to a compliance inspection by a U. S. Army Corps of Engineers representative. Failure to comply with any terms or conditions of this authorization may result in the Corps suspending, modifying or revoking the authorization and/or issuing a Class I administrative penalty, or initiating other appropriate legal action.

I hereby certify that the work authorized by the above referenced permit has been completed in accordance with the terms and condition of the said permit, and required mitigation was completed in accordance with the permit conditions.

Signature of Permittee

Date

U.S. ARMY CORPS OF ENGINEERS Wilmington District Compensatory Mitigation Responsibility Transfer Form

 Permittee:
 NCDOT, Mr. Gregory Thorpe, Ph.D.
 Action ID: SAW-2008-03229

 Project Name:
 I-85 Widening and Interchange Improvements Project (TIP Project No. I-3802A).

 County:
 Cabarrus and Rowan

Instructions to Permittee: The Permittee must provide a copy of this form to the Mitigation Sponsor, either an approved Mitigation Bank or the North Carolina Ecosystem Enhancement Program (NCEEP), who will then sign the form to verify the transfer of the mitigation responsibility. Once the Sponsor has signed this form, it is the Permittee's responsibility to ensure that to the U.S. Army Corps of Engineers (USACE) Project Manager identified on page two is in receipt of a signed copy of this form before conducting authorized impacts, unless otherwise specified below. If more than one mitigation Sponsor will be used to provide the mitigation associated with the permit, or if the impacts and/or the mitigation will occur in more than one 8-digit Hydrologic Unit Code (HUC), multiple forms will be attached to the permit, and the separate forms for each Sponsor and/or HUC must be provided to the appropriate mitigation Sponsors.

Instructions to Sponsor: The Sponsor must verify that the mitigation requirements shown below are available at the identified site. By signing below, the Sponsor is accepting full responsibility for the identified mitigation, regardless of whether or not they have received payment from the Permittee. Once the form is signed, the Sponsor must update the appropriate ledger and provide a copy of the signed form to the Permittee and to the USACE Bank/In-Lieu Fee Program Manager. The Sponsor must also comply with all reporting requirements established in their authorizing instrument.

Permitted Impacts and Compensatory Mitigation Requirements:

Permitted Impacts Requiring Mitigation* 8-digit HUC and Basin: 03040105, Yadkin River Basin

| Strea | m Impacts (linear | feet) | | Wetland Im | pacts (acres) | |
|-------|-------------------|-------|----------------------|--------------------------|---------------|---------|
| Warm | Cool | Cold | Riparian Riverine | Riparian Non-riverine | Non-Riparian | Coastal |
| 3,130 | | | 0.34 | | | |

*If more than one mitigation sponsor will be used for the permit, only include impacts to be mitigated by this sponsor.

Compensatory Mitigation Requirements:

8-digit HUC and Basin: 03040105, Yadkin River Basin

| Strea | am Mitigation (cre | edits) | | Wetland Mitig | gation (credits) | |
|-------|--------------------|--------|----------------------|--------------------------|------------------|---------|
| Warm | Cool | Cold | Riparian Riverine | Riparian Non-riverine | Non-Riparian | Coastal |
| 4953 | | | 0.68 | | | |

Mitigation Site Debited: NC DMS

(List the name of the bank to be debited. For umbrella banks, also list the specific site. For NCEEP, list NCEEP. If the NCEEP acceptance letter identifies a specific site, also list the specific site to be debited).

Section to be completed by the Mitigation Sponsor

Statement of Mitigation Liability Acceptance: I, the undersigned, verify that I am authorized to approve mitigation transactions for the Mitigation Sponsor shown below, and I certify that the Sponsor agrees to accept full responsibility for providing the mitigation identified in this document (see the table above), associated with the USACE Permittee and Action ID number shown. I also verify that released credits (and/or advance credits for NCEEP), as approved by the USACE, are currently available at the mitigation site identified above. Further, I understand that if the Sponsor fails to provide the required compensatory mitigation, the USACE Wilmington District Engineer may pursue measures against the Sponsor to ensure compliance associated with the mitigation requirements.

Mitigation Sponsor Name:_

Name of Sponsor's Authorized Representative:

Signature of Sponsor's Authorized Representative

Date of Signature

USACE Wilmington District Compensatory Mitigation Responsibility Transfer Form, Page 2

Conditions for Transfer of Compensatory Mitigation Credit:

- Once this document has been signed by the Mitigation Sponsor and the USACE is in receipt of the signed form, the
 Permittee is no longer responsible for providing the mitigation identified in this form, though the Permittee remains
 responsible for any other mitigation requirements stated in the permit conditions.
- Construction within jurisdictional areas authorized by the permit identified on page one of this form can begin only
 after the USACE is in receipt of a copy of this document signed by the Sponsor, confirming that the Sponsor has
 accepted responsibility for providing the mitigation requirements listed herein. For authorized impacts conducted by
 the North Carolina Department of Transportation (NCDOT), construction within jurisdictional areas may proceed upon
 permit issuance; however, a copy of this form signed by the Sponsor must be provided to the USACE within 30 days of
 permit issuance. NCDOT remains fully responsible for the mitigation until the USACE has received this form, confirming
 that the Sponsor has accepted responsibility for providing the mitigation requirements listed herein.
- Signed copies of this document must be retained by the Permittee, Mitigation Sponsor, and in the USACE
 administrative records for both the permit and the Bank/ILF Instrument. It is the Permittee's responsibility to ensure
 that the USACE Project Manager (address below) is provided with a signed copy of this form.
- If changes are proposed to the type, amount, or location of mitigation after this form has been signed and returned to the USACE, the Sponsor must obtain case-by-case approval from the USACE Project Manager and/or North Carolina Interagency Review Team (NCIRT). If approved, higher mitigation ratios may be applied, as per current District guidance and a new version of this form must be completed and included in the USACE administrative records for both the permit and the Bank/ILF Instrument.

Comments/Additional Conditions:

This form is not valid unless signed by the mitigation Sponsor and USACE Project Manager. For questions regarding this form or any of the conditions of the permit authorization, contact the Project Manager at the address below.

USACE Project Manager: Crystal Amschler USACE Field Office: Asheville Regulato US Army Corps of

Asheville Regulatory Field Office US Army Corps of Engineers 151 Patton Avenue, Room 208 Asheville, North Carolina 28801-5006

Email:

USACE Project Manager Signature

Click here to enter a date.

Date of Signature

Current Wilmington District mitigation guidance, including information on mitigation ratios, functional assessments, and mitigation bank location and availability, and credit classifications (including stream temperature and wetland groupings) is available at http://ribits.usace.army.mil.

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The Wilmington District is committed to providing the highest level of support to the public. To help us ensure we continue to do so, please complete the Customer Satisfaction Survey located at our website at http://regulatory.usacesurvey.com/ to complete the survey online.

DEPARTMENT OF THE ARMY Wilmington District, Corps of Engineers 69 Darlington Avenue Wilmington, North Carolina 28403-1343 April 30, 2015

Regional General Permit No. <u>198200031</u> Name of Permittee: <u>North Carolina Department of Transportation</u> Effective Date: <u>April 30, 2015</u> Expiration Date: <u>April 30, 2020</u>

DEPARTMENT OF THE ARMY REGIONAL GENERAL PERMIT

A regional general permit (RGP) to perform work in or affecting navigable waters of the United States and waters of the United States, upon recommendation of the Chief of Engineers, pursuant to Section 10 of the Rivers and Harbors Act of March 3, 1899 (33 U.S.C. 403), and Section 404 of the Clean Water Act (33 U.S.C. 1344), is hereby modified and re-issued by authority of the Secretary of the Army by the

District Commander U.S. Army Engineer District, Wilmington Corps of Engineers 69 Darlington Avenue Wilmington, North Carolina 28403-1343

TO AUTHORIZE THE DISCHARGE OF DREDGED OR FILL MATERIAL IN WATERS OF THE UNITED STATES (U.S.), INCLUDING WETLANDS, ASSOCIATED WITH MAINTENANCE, REPAIR, AND CONSTRUCTION PROJECTS CONDUCTED BY THE VARIOUS DIVISIONS OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT) INCLUDING THE NCDOT DIVISION OF HIGHWAYS, RAIL, BICYCLE/PEDESTRIAN, ECT.

Activities authorized are:

a. Construction, maintenance, and repair of bridges, to include work on the approaches, where permanent impacts resulting in a loss of waters of the U.S. will be less than or equal to 500 linear feet (lf) of stream and/or one (1) acre of wetland/non-tidal open water for each single and complete linear project^{*}.

b. Best-fit widening projects that have undergone interagency review and completed the current interagency Merger Process, which merges the requirements of the National Environmental Policy Act (NEPA) with those found within Section 404 of the Clean Water Act (CWA).

While there is no impact threshold for these widening projects, the Corps has the discretion to require an individual permit if it determines that the proposed impacts will have more than a minimal impact on the aquatic environment or on other environmental factors, or if the project would normally require an Environmental Impact Statement (EIS) under current Federal Highway Administration (FHWA) guidelines. Best-fit projects may include a small amount of new location roadway for components such as interchanges or intersections, provided the new location portion has been concurred upon by the merger team.

c. Minor widening projects, such as paving and/or widening secondary roads, or interchange improvements, when permanent impacts which result in a loss of waters of the U.S. from installation and/or extension of culverts and/or pipes will be less than or equal to 500 lf of stream and/or one (1) acre of wetland/non-tidal open water for each single and complete linear project^{*}.

d. Stream relocation(s) associated with projects identified in a-c above. Stream relocation lengths are to be evaluated independently and are not included within each respective maximum limit threshold for the authorized actions stated above.

Single and complete linear project: A linear project is a project constructed for the purpose of getting people, goods, or services from a point of origin to a terminal point, which often involves multiple crossings of one or more waterbodies at separate and distant locations. The term "single and complete project" is defined as that portion of the total linear project proposed or accomplished by one owner/developer or partnership or other association of owners/developers that includes all crossings of a single water of the U.S. (i.e., a single waterbody) at a specific location. For linear projects crossing a single or multiple waterbodies several times at separate and distant locations, each crossing is considered a single and complete project for purposes of this RGP. However, individual channels in a braided stream or river, or individual arms of a large, irregularly shaped wetland or lake, etc., are not separate waterbodies, and crossings of such features cannot be considered separately.

Generally, off-site detours are preferred to avoid and minimize impacts to the human and natural environment. However, if an off-site detour is considered impracticable, then an on-site detour may be considered as a necessary component of the actions described above. Impacts from the detour may be considered temporary and may not require compensatory mitigation if the impacted area is restored to its pre-project condition after construction is complete. If the construction of a detour (on-site or off-site) includes standard undercutting methods, removal of all material and backfilling with suitable material is required.

1. Special Conditions.

a. The applicant must submit a pre-construction notification (PCN) with specified attachments to the District Engineer and receive written verification from the Corps that the proposed work complies with this RGP prior to commencing any activity authorized by this RGP.

b. If the project will not impact a designated "Area of Environmental Concern" (AEC) in the twenty (20) counties of North Carolina covered by the North Carolina Coastal Area Management Act (CAMA), then a consistency submission is not required. If the project will impact a designated AEC and meets the definition of "development", then the applicant must

obtain the required CAMA permit. Development activities may not commence until a copy of the approved CAMA permit is furnished to the appropriate Wilmington District Regulatory Field Office (Wilmington Field Office – 69 Darlington Avenue, Wilmington, NC 28403 or Washington Field Office – 2407 West 5th Street, Washington, NC 27889).

The twenty (20) CAMA counties in North Carolina include Beaufort, Bertie, Brunswick, Camden, Carteret, Chowan, Craven, Currituck, Dare, Gates, Hertford, Hyde, New Hanover, Onslow, Pamlico, Pasquotank, Pender, Perquimans, Tyrrell, and Washington.

c. Discharges into Waters of the U.S. designated by either the North Carolina Division of Marine Fisheries (NCDMF) or the North Carolina Wildlife Resources Commission (NCWRC) as anadromous fish spawning areas are prohibited during the period between February 1 and June 30, without prior written approval from NCDMF, NCWRC, National Marine Fisheries Service (NMFS), and the Corps. Discharges into waters of the U.S. designated by NCDMF as primary nursery areas and discharges into waters of the U.S. designated by NCWRC as primary nursery areas in inland waters shall be coordinated with NCDCM (per existing agreement with NCDMF) and NCWRC prior to being authorized by this RGP. Coordination with NCDCM and NCWRC may result in a required construction moratorium during periods of significant biological productivity or critical life stages.

The applicant should contact:

NC Division of Marine Fisheries 3441 Arendell Street Morehead City, NC 28557 Telephone 252-726-7021 or 800-682-2632 North Carolina Wildlife Resources Commission Habitat Conservation Program Manager 1721 Mail Service Center Raleigh, NC 27699-1721 Telephone (919) 733-7638

d. This permit does not authorize the use of culverts in areas designated as anadromous fish spawning areas by the NCDMF or the NCWRC.

e. Waters of the U.S. designated as sturgeon spawning areas are excluded during the period between February 1 and June 30, without prior written approval from NMFS.

f. If the project is located within the twenty (20) counties of North Carolina designated as coastal counties by CAMA, then all pipe and culvert inverts will be buried at least one foot below normal bed elevation when they are placed within the Public Trust AEC and/or the Estuarine Waters AEC as designated by CAMA. If the project is not located within the twenty (20) counties of North Carolina designated as coastal counties by CAMA, then culvert inverts will be buried at least one foot below the bed of the stream for culverts greater than 48 inches in diameter. Culverts 48 inches in diameter or less shall be buried or placed on the stream bed as practicable and appropriate to maintain aquatic passage, and every effort shall be made to maintain the existing channel slope. The potential for destabilization of the channel and head cutting upstream should be considered in the placement of the culvert. A waiver from the depth specifications in this condition may be requested in writing. The waiver will only be issued if it can be demonstrated that the impacts of complying with this condition would result in more adverse impacts to the aquatic environment. Culverts placed in wetlands do not have to be buried.

g. No work shall be authorized by this RGP within the twenty coastal counties, as defined by the NCDCM, without prior consultation with NOAA Fisheries. For each activity reviewed by the Corps where it is determined that the activity may affect Essential Fish Habitat (EFH) for federally managed species, an EFH Assessment shall be prepared by the applicant and forwarded to the Corps and NOAA Fisheries for review and comment prior to authorization of work.

h. Discharges of dredged or fill material into waters of the U.S., including wetlands, must be minimized or avoided to the maximum extent practicable.

i. No activity may result in substantial permanent disruption of the movement of those species of aquatic life indigenous to the waterbody, including those species that normally migrate through the area. The dimension, pattern, and profile of the stream above and below a pipe or culvert should not be modified by widening the stream channel or by reducing the depth of the stream in connection with the construction activity. It is acceptable to use rock vanes at culvert outlets to ensure, enhance, or maintain aquatic passage. Pre-formed scour holes are acceptable when designed for velocity reduction. The width, height, and gradient of a proposed opening should be such as to pass the average historical low flow and spring flow without adversely altering flow velocity. Spring flow should be determined from gauge data, if available. In the absence of such data, bankfull flow can be used as a comparable level. Where adjacent floodplain is available, flows exceeding bank-full should be accommodated by installing culverts at the floodplain elevation, if practicable. If multiple culverts are used, the construction of floodplain benches and/or sills to maintain base flow is required, if practicable.

j. Upon completion of any work authorized by this RGP, all temporary fills (to include culverts, etc.) will be completely removed from waters of the U.S. and the areas will be restored to preconstruction conditions, to include pre-project elevations and contours, restoring natural hydrology and stream corridors, and reestablishing native vegetation/riparian corridors. This work will be completed within 60 days of completion of project construction. If this timeframe occurs while a required moratorium of this permit is in effect, the temporary fill shall be removed in its entirety within 60 days of the moratorium end date. If vegetation cannot be planted due to the time of the year, all disturbed areas will be seeded with a native mix appropriate for the impacted area, and vegetation will be planted in the fall. A native seed mix may contain non-invasive small grain annuals (e.g. millet and rye grain) to ensure adequate cover while native vegetation becomes established. The PCN must include a restoration plan showing how all temporary fills and structures will be removed and how the area will be restored to pre-project conditions.

k. All activities authorized by this RGP shall, to the extent practicable, be conducted "in the dry", with barriers installed between work areas and aquatic habitat to protect that habitat from sediment, concrete, and other pollutants. Where concrete is utilized, measures will be taken to prevent live or fresh concrete, including bags of uncured concrete, from coming into contact with waters of the U.S. until the concrete has cured/hardened. All water in the work area that has been in contact with concrete shall only be returned to waters of the U.S. when it no longer poses a threat to aquatic organisms (concrete is set and cured).

1. In cases where new alignment approaches are to be constructed and the existing approach fill in waters of the U.S. is to be abandoned and no longer maintained as a roadway, the

abandoned fill shall be removed and the area will be restored to preexisting wetland/stream conditions and elevations, to include restoring natural hydrology and stream corridors, and reestablishing native vegetation/riparian corridors, to the extent practicable. This activity may qualify as compensatory mitigation credit for the project and will be assessed on a case-by-case basis in accordance with Special Conditions "q" and "r" below. A restoration plan detailing this activity will be required with the submittal of the PCN.

m. To the maximum extent practicable, the pre-construction course, condition, capacity, and location of open waters must be maintained for each activity, including stream channelization and storm water management activities, except as provided below. The activity must be constructed to withstand expected high flows. The activity must not restrict or impede the passage of normal or high flows. The activity may alter the pre-construction course, condition, capacity, and location of open waters if it benefits the aquatic environment (e.g., stream restoration or relocation activities).

n. The project must be implemented and/or conducted so that all reasonable and practicable measures to ensure that equipment, structures, fill pads, and work associated with the project do not adversely affect upstream and/or downstream reaches. Adverse effects include, but are not limited to, channel instability, flooding, and/or shoreline/streambank erosion. During construction, the permittee shall routinely monitor for these effects, cease all work if/when detected, take initial corrective measures to correct actively eroding areas, and notify the Corps immediately. Permanent corrective measures may require additional authorization from the Corps.

o. All PCNs will describe sedimentation and erosion control structures and measures proposed for placement in waters of the U.S. To the extent practicable, structures and measures should be depicted on maps, surveys or drawings showing location and impacts to jurisdictional wetlands and streams. In addition, appropriate soil and erosion control measures must be established and maintained during construction. All fills, temporary and permanent, must be adequately stabilized at the earliest practicable date to prevent erosion of fill material into adjacent waters or wetlands.

p. Before discharging dredged or fill material into waters of the U.S. in the twenty-five (25) mountain counties of North Carolina, the applicant will submit a PCN to the NCWRC and the Corps concurrently. The PCN shall summarize alternatives to conducting work in mountain trout waters considered during the planning process, detail why alternatives were or were not selected, and contain a compensatory mitigation plan for all unavoidable adverse impacts to mountain trout waters. For proposals where a bridge is replaced with a culvert, the PCN must also include details of any on-site evaluations that were conducted to determine that installation of a culvert will not adversely affect passage of fish or other aquatic biota at the project site. This information must include factors such as the proposed slope of the culvert and determinations of how the slope will be expected to allow or impede passage, the necessity of baffles and/or sills to ensure passage, design considerations to ensure that expected baseflow will be maintained for passage and that post-construction velocities will not prevent passage, site conditions that will or will not allow proper burial of the culvert, existing structures (e.g., perched culverts, waterfalls, etc.) and/or stream patterns up and downstream of the culvert site that could affect passage and bank stability, and any other considerations regarding passage. The level of detail for this information should be based on site conditions (i.e., culverts on a slope over 3% will most likely

require more information than culverts on a slope that is less than 1%, etc.). Also, in order to evaluate potential impacts, describe bedforms that will be impacted by the proposed culvert – e.g., pools, glides, riffles, etc. The NCWRC will respond both to the proponent and directly to the Corps.

The twenty-five (25) designated trout counties of North Carolina include Alleghany, Caldwell, Watauga, Ashe, Mitchell, Wilkes, Avery, Burke, Stokes, Surry, Buncombe, Henderson, Polk, Cherokee, Jackson, Rutherford, Clay, Macon, Swain, Graham, Madison, Transylvania, Haywood, McDowell, and Yancey.

The applicant may contact NCWRC at:

North Carolina Wildlife Resources Commission Ms. Marla Chambers Western NCDOT Permit Coordinator 206 Charter Street Albemarle, NC 28001 Office: 704-982-9181

q. Compensatory mitigation will be required for permanent impacts resulting in a loss of waters of the U.S., including wetlands, from culverts/pipes and associated fill. Mitigation will also be required for stream relocation projects. The applicant will attach a proposed mitigation plan to the PCN. Mitigation proposals will be in accordance with currently approved Wilmington District and/or Corps-wide mitigation regulations and guidance. The Corps Project Manager will make the final determination concerning the appropriate amount and type of mitigation.

r. Stream relocation(s) associated with projects may be authorized under this RGP. As stated above, mitigation will be required for all relocation projects. If the stream relocation is conducted in accordance with the requirements stated below in 1-5, the relocated segment of stream may* be considered toward reducing the amount of compensatory mitigation required. A relocation plan must be submitted with the PCN that addresses all factors required within the current Wilmington District, Corps of Engineers Stream Mitigation Guidelines, which can include, but may not be limited to:

(1) The relocated stream has pattern, profile, and dimension based on natural channel design. If natural channel design construction is not possible due to site constraints, the relocated stream must have pattern, profile, and dimension similar to, or better than, the existing stream. Note that site constraints do not include those situations where NCDOT chooses not to acquire additional adjacent property that is available for purchase.

(2) The new stream meets the current buffer requirements as stated in current District stream mitigation guidance. If the required buffer widths cannot be obtained, a projectby-project decision will be completed to determine if additional compensatory mitigation is required.

(3) The new location allows the relocated stream to remain stable (e.g., in a

valley vs. on a slope, no bends that will impact stability, etc.).

(4) There is no loss of channel for any reason (e.g., old channel is 200' and new channel is 150' = 50' channel loss; part of the new channel is put in a culvert; the new channel (sides and bottom) is hardened with concrete, rip rap, etc.).

(5) The Corps will determine if monitoring and reporting will be required for a specific project and the parameters of any required monitoring and reporting. If monitoring is required, a monitoring plan must be included with the PCN and meet current requirements.

All relocation plans must clearly depict both the existing channel and the proposed (relocated) channel.

* Conducting stream relocation(s) in accordance with 1-5 above may not fully compensate for the impact and may require additional compensatory mitigation. The Corps Project Manager will determine if the proposed amount of mitigation is adequate on a project-by-project basis.

If stream relocation cannot be conducted in accordance with 1-5 above, mitigation at a 2:1 ratio will typically be required unless: (1) the applicant provides a Stream Quality Assessment Worksheet or NCSAM documentation (when available) that supports a different mitigation ratio; (2) the Corps Project Manager determines that the relocated stream, while not in full compliance with 1-5 above, warrants partial mitigation, or; (3) the Corps determines that the existing stream is an excellent quality stream, in which case a 3:1 mitigation ratio may be required. The Corps Project Manager will make the final determination concerning the appropriate amount and type of mitigation.

If the Corps determines that the proposed stream relocation is of such a magnitude that it cannot be authorized by this RGP, an Individual Permit will be required.

s. The applicant shall sign and return the compliance certificate that is attached to the RGP verification letter.

t. In the event that any Federal agency maintains an objection or any required State authorization is outstanding, no notice to proceed will be given until objections are resolved and State authorizations are issued.

u. The Corps may place additional special conditions, limitations, or restrictions on any verification of the use of RGP 31 on a project-by-project basis.

2. General Conditions.

a. Except as authorized by this RGP or any Corps approved modification to this RGP, no excavation, fill or mechanized land-clearing activities shall take place within waters or wetlands, at any time in the construction or maintenance of this project. This permit does not authorize temporary placement or double handling of excavated or fill material within waters or wetlands outside the permitted area. This prohibition applies to all borrow and fill activities connected with this project.

b. Authorization under this RGP does not obviate the need to obtain other federal, state, or local authorizations.

c. All work authorized by this RGP must comply with the terms and conditions of the applicable CWA Section 401 Water Quality Certification for this RGP issued by the NCDWR.

d. The permittee shall employ all sedimentation and erosion control measures necessary to prevent an increase in sedimentation or turbidity within waters and wetlands outside the permit area. This shall include, but is not limited to, the immediate installation of silt fencing or similar appropriate devices around all areas subject to soil disturbance or the movement of earthen fill, and the immediate stabilization of all disturbed areas. Additionally, the project must remain in full compliance with all aspects of the Sedimentation Pollution Control Act of 1973 (North Carolina General Statutes Chapter 113A Article 4).

e. The activities authorized by this RGP must not interfere with the public's right to free navigation on all navigable waters of the U.S. No attempt will be made by the permittee to prevent the full and free use by the public of all navigable waters at or adjacent to the authorized work for a reason other than safety.

f. The permittee understands and agrees that, if future operations by the U.S. require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the U.S. No claim shall be made against the U.S. on account of any such removal or alteration.

g. The permittee, upon receipt of a notice of revocation of this permit or upon its expiration before completion of the work will, without expense to the U.S. and in such time and manner as the Secretary of the Army or his authorized representative may direct, restore the affected water of the U.S. to its former conditions.

h. The permittee will allow the Wilmington District Engineer or his representative to inspect the authorized activity at any time deemed necessary to assure that the activity is being performed or maintained in strict accordance with the Special and General Conditions of this permit.

i. This RGP does not grant any property rights or exclusive privileges.

j. This permit does not authorize any injury to the property or rights of others.

k. This RGP does not authorize the interference with any existing or proposed federal project.

l. In issuing this permit, the Federal Government does not assume any liability for the following:

(1) Damages to the permitted project or uses thereof as a result of other permitted

or unpermitted activities or from natural causes.

(2) Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the U.S. in the public interest.

(3) Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.

(4) Design or construction deficiencies associated with the permitted work.

(5) Damage claims associated with any future modification, suspension, or revocation of this permit.

m. Authorization provided by this RGP may be modified, suspended or revoked in whole or in part if the Wilmington District Engineer, acting for the Secretary of the Army, determines that such action is in the best public interest. The term of this RGP shall be five (5) years unless subject to modification, suspension or revocation. Any modification, suspension or revocation of this authorization will not be the basis for any claim for damages against the U.S. Government.

n. This RGP does not authorize any activity, which the District Engineer determines, after any necessary investigations, will adversely affect:

(1) Rivers named in Section 3 of the Wild and Scenic Rivers Act (15 U.S.C. 1273), those proposed for inclusion as provided by Sections 4 and 5 of the Act, and wild, scenic and recreational rivers established by state and local entities.

(2) Sites included in or determined eligible for listing in the National Registry of Natural Landmarks.

(3) NOAA designated marine sanctuaries, National Estuarine Research Reserves, and coral reefs.

(4) Submerged Aquatic Vegetation (SAV) as defined by the N.C. Division of Marine Fisheries at 15A NCAC 03I .0101(4)(i)).

o. Endangered Species.

(1) No activity is authorized under this RGP which is likely to directly or indirectly jeopardize the continued existence of a threatened or endangered species or a species proposed for such designation, as identified under the Federal Endangered Species Act (ESA), or which will directly or indirectly destroy or adversely modify the critical habitat of such species. No activity is authorized under this RGP which "may affect" a listed species or critical habitat, unless Section 7 consultation addressing the effects of the proposed activity has been completed.

(2) Federal agencies should follow their own procedures for complying with the requirements of the ESA. Federal permittees (and when FHWA is the lead federal agency) must provide the district engineer with the appropriate documentation to demonstrate compliance with

those requirements. The district engineer will review the documentation and determine whether it is sufficient to address ESA compliance for the RGP activity, or whether additional ESA consultation is necessary.

(3) Non-federal permittees must submit a PCN to the district engineer if any listed species or designated critical habitat might be affected or is in the vicinity of the project, or if the project is located in designated critical habitat, and shall not begin work on the activity until notified by the district engineer that the requirements of the ESA have been satisfied and that the activity is authorized. For activities that might affect federally-listed endangered or threatened species or designated critical habitat, the PCN must include the name(s) of the endangered or threatened species that might be affected by the proposed work or that utilize the designated critical habitat that might be affected by the proposed work. The district engineer will determine whether the proposed activity "may affect" or will have "no effect" to listed species and designated critical habitat and will notify the non-federal applicant of the Corps' determination within 45 days of receipt of a complete PCN notification. In cases where the nonfederal applicant has identified listed species or critical habitat that might be affected or is in the vicinity of the project, and has so notified the Corps, the applicant shall not begin work until the Corps has provided notification that the proposed activities will have "no effect" on listed species or critical habitat, or until Section 7 consultation has been completed. If the non-federal applicant has not heard back from the Corps within 45 days, the applicant must still wait for notification from the Corps.

(4) As a result of formal or informal consultation with the U.S. Fish and Wildlife Service (USFWS) or NMFS, the district engineer may add species-specific endangered species conditions to the RGP.

(5) Authorization of an activity by a RGP does not authorize the "take" of a threatened or endangered species as defined under the ESA. In the absence of separate authorization (e.g., an ESA Section 10 Permit, a Biological Opinion with "incidental take" provisions, etc.) from the USFWS or the NMFS, the ESA prohibits any person subject to the jurisdiction of the U.S. to take a listed species, where "take" means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct. The word "harm" in the definition of "take" means an act which actually kills or injures wildlife. Such an act may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding or sheltering.

(6) Information on the location of threatened and endangered species and their critical habitat can be obtained directly from the offices of the USFWS and NMFS or their world wide web pages at http://www.fws.gov/ or http://www.fws.gov/ipac and http://www.noaa.gov/fisheries.html respectively.

p. The permittee is responsible for obtaining any "take" permits required under the USFWS's regulations governing compliance with the Migratory Bird Treaty Act or the Bald and Golden Eagle Protection Act. The permittee should contact the appropriate local office of the USFWS to determine if such "take" permits are required for a particular activity.

q. For proposed activities the sixteen counties listed below, applicants must provide a

copy of the PCN to the USFWS, 160 Zillicoa Street, Asheville, North Carolina 28801. This PCN must be sent concurrently to the USFWS and the Corps Project Manager for that specific county.

Counties with tributaries that drain to designated critical habitat that require notification to the Asheville USFWS: Avery, Cherokee, Forsyth, Graham, Haywood, Henderson, Jackson, Macon Mecklenburg, Mitchell, Stokes, Surry, Swain, Transylvania, Union and Yancey.

Applicants may contact the appropriate USFWS office listed below or the US Army Corps of Engineers:

US Fish and Wildlife Service Asheville Field Office 160 Zillicoa Street Asheville, NC 28801 Telephone: (828) 258-3939

Asheville USFWS Office counties: All counties west of and including Anson, Stanly, Davidson, Forsyth and Stokes Counties.

US Fish and Wildlife Service Raleigh Field Office Post Office Box 33726 Raleigh, NC 27636-3726 Telephone: (919) 856-4520

Raleigh USFWS Office counties: all counties east of and including Richmond, Montgomery, Randolph, Guilford, and Rockingham Counties.

r. Permittees are advised that development activities in or near a floodway may be subject to the National Flood Insurance Program that prohibits any development, including fill, within a floodway that results in any increase in base flood elevations. This RGP does not authorize any activity prohibited by the National Flood Insurance Program.

s. The permittee must make every reasonable effort to perform the work authorized herein in a manner so as to minimize any adverse impact on fish, wildlife and natural environmental values.

t. All activities authorized by this RGP that involve the use of riprap material for bank stabilization, the following measures shall be applied:

(1) Filter cloth must be placed underneath the riprap as an additional requirement of its use in North Carolina waters.

(2) The placement of riprap shall be limited to the areas depicted on submitted work plan drawings and not be placed in a manner that prevents or impedes fish passage.

(3) The riprap material shall be clean and free from loose dirt or any pollutant

except in trace quantities that will not have an adverse environmental effect.

(4) It shall be of a size sufficient to prevent its movement from the authorized alignment by natural forces under normal conditions.

(5) The riprap material shall consist of clean rock or masonry material such as, but not limited to, granite, marl, or broken concrete.

(6) A waiver from the specifications in this general condition may be requested in writing. The waiver will only be issued if it can be demonstrated that the impacts of complying with this condition will result in greater adverse impacts to the aquatic environment.

u. The permittee must install and maintain, at his expense, any signal lights and signals prescribed by the U.S. Coast Guard, through regulations or otherwise, on authorized facilities. For further information, the permittee should contact the U.S. Coast Guard Marine Safety Office at (910) 772-2191.

v. The permittee must maintain any structure or work authorized by this permit in good condition and in conformance with the terms and conditions of this permit. The Permittee is not relieved of this requirement if the Permittee abandons the structure or work. Transfer in fee simple of the work authorized by this permit will automatically transfer this permit to the property's new owner, with all of the rights and responsibilities enumerated herein. The permittee must inform any subsequent owner of all activities undertaken under the authority of this permit and provide the subsequent owner with a copy of the terms and conditions of this permit.

w. At his sole discretion, any time during the processing cycle, the Wilmington District Engineer may determine that this RGP will not be applicable to a specific proposal. In such case, the procedures for processing an individual permit in accordance with 33 CFR 325 will be available.

x. The activity must comply with applicable FEMA approved state or local floodplain management requirements.

y. All fill material placed in waters or wetlands shall be generated from an upland source and will be clean and free of any pollutants except in trace quantities. Metal products, organic materials (including debris from land clearing activities), or unsightly debris will not be used.

z. All excavated material will be disposed of in approved upland disposal areas.

aa. Historic Properties.

(1) In cases where the district engineer determines that the activity may affect properties listed, or eligible for listing, in the National Register of Historic Places (NRHP), the activity is not authorized, until the requirements of Section 106 of the National Historic Preservation Act (NHPA) have been satisfied.

(2) Federal permittees (or when FHWA is the lead federal agency) should follow their own procedures for complying with the requirements of Section 106 of the NHPA. Federal permittees must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements. The district engineer will review the documentation and determine whether it is sufficient to address Section 106 compliance for this RGP activity, or whether additional Section 106 consultation is necessary.

(3) Non-federal permittees must submit a PCN to the district engineer if the authorized activity may have the potential to cause effects to any historic properties listed on, determined to be eligible for listing on, or potentially eligible for listing on the NRHP, including previously unidentified properties. For such activities, the PCN must state which historic properties may be affected by the proposed work or include a vicinity map indicating the location of the historic properties or the potential for the presence of historic properties. Assistance regarding information on the location of or potential for the presence of historic resources can be sought from the State Historic Preservation Officer (SHPO) or Tribal Historic Preservation Officer (THPO), as appropriate, and the NRHP (see 33 CFR 330.4(g)). When reviewing PCNs, district engineers will comply with the current procedures for addressing the requirements of Section 106 of the NHPA. The district engineer shall make a reasonable and good faith effort to carry out appropriate identification efforts, which may include background research, consultation, oral history interviews, sample field investigation, and field survey. Based on the information submitted and these efforts, the district engineer shall determine whether the proposed activity has the potential to cause an effect on the historic properties. Where the non-federal applicant has identified historic properties on which the activity may have the potential to cause effects and so notified the Corps, the non-federal applicant shall not begin the activity until notified by the district engineer either that the activity has no potential to cause effects or that consultation under Section 106 of the NHPA has been completed.

(4) The district engineer will notify the prospective permittee within 45 days of receipt of a complete PCN whether NHPA Section 106 consultation is required. Section 106 consultation is not required when the Corps determines that the activity does not have the potential to cause effects on historic properties (see 36 CFR §800.3(a)). If NHPA Section 106 consultation is required and will occur, the district engineer will notify the non-federal applicant that he or she cannot begin work until Section 106 consultation is completed. If the non-federal applicant has not heard back from the Corps within 45 days, the applicant must still wait for notification from the Corps.

(5) Prospective permittees should be aware that Section 110k of the NHPA (16 U.S.C. 470h-2(k)) prevents the Corps from granting a permit or other assistance to an applicant who, with intent to avoid the requirements of Section 106 of the NHPA, has intentionally significantly adversely affected a historic property to which the permit will relate, or having legal power to prevent it, allowed such significant adverse effect to occur, unless the Corps, after consultation with the Advisory Council on Historic Preservation (ACHP), determines that circumstances justify granting such assistance despite the adverse effect created or permitted by the applicant. If circumstances justify granting the assistance, the Corps is required to notify the ACHP and provide documentation specifying the circumstances, the degree of damage to the integrity of any historic properties affected, and proposed mitigation. This documentation must include any views obtained from the applicant, SHPO/THPO, appropriate Indian tribes if the

undertaking occurs on or affects historic properties on tribal lands or affects properties of interest to those tribes, and other parties known to have a legitimate interest in the impacts to the permitted activity on historic properties.

bb. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the NRHP.

cc. There will be no unreasonable interference with navigation or the right of the public to riparian access by the existence or use of activities authorized by this RGP.

dd. Heavy equipment working in wetlands or mudflats must be placed on mats, or other measures must be taken to minimize soil disturbance.

ee. This RGP will not be applicable to proposed construction when the Wilmington District Engineer determines that the proposed activity will significantly affect the quality of the human environment and determines that an EIS must be prepared.

ff. Activities which have commenced (i.e. are under construction) or are under contract to commence in reliance upon this general permit will remain authorized provided the activity is completed within twelve months of the date of the general permit's expiration, modification, or revocation. Activities completed under the authorization of this general permit which were in effect at the time the activity was completed continue to be authorized by the general permit.

BY AUTHORITY OF THE SECRETARY OF THE ARMY:

Kevin P. I anders Sr.

Colonel, U. S. Army District Commander

























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|-------------|-------------------------------------|--------------------------|--|--------------------------------------|--------------------------------------|---|--|------------------------------------|--------------------------------|---|---|-----------------------------------|
| 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) | Natura Strear Desig (ft) |
| 1 | 83+00 -L- | BANK STABILIZATION | | | | 1 | | < 0.01 | < 0.01 | 15 | 10 | |
| **2 | 94+68 -L- | BANK STABILIZATION | | | | | | 0.04 | < 0.01 | 172 | 20 | |
| 3 | 97+00 -L- | EXTEND EX 30" RCP-III | | | | | | < 0.01 | < 0.01 | 15 | 20 | |
| 4 | 157+27 -L- | EXTEND EX 42" RCP-III | | | | - | | < 0.01 | < 0.01 | 7 | 10 | |
| 4 | 157+25 -L- | BANK STABILIZATION | | | | | | < 0.01 | < 0.01 | 14 | 10 | |
| 6 | 193+25 -L- | FILL | | | | | | 0.01 | | 95 | | |
| 7 | 193+00 -L+ | 6' LATERAL BASE DITCH | | | | | | 0.03 | < 0.01 | 140 | 10 | |
| 7A | 44+87 -Y7- | REPLACE EXIST. 48" CMP | - | | | | | 0.02 | | 120 | | |
| 8 | 195+25 -L- | 4' LATERAL BASE DITCH | | | | - | | | < 0.01 | | 15 | - |
| 9 | 205+50 -L- | BANK STABILIZATION | | | | | | < 0.01 | < 0.01 | 9 | 5 | |
| 94 | 205+50 -L- | BANK STABILIZATION | | | | | | < 0.01 | < 0.01 | 5 | 5 | |
| 10 | 230+75 - 237+60 -L- | CHANNEL CHANGE | - | | - | | | 0.11 | < 0.01 | 666 | 30 | |
| 10A | 229+40 -L- | BANK STABILIZATION | | | | | | < 0.01 | < 0.01 | 7 | 12 | |
| 12 | 241+00/248+00-L- | BANK STABILIZATION | | | | | | 0.01 | < 0.01 | 22 | 20 | |
| 12 | 241+40 -L- | EXTEND EX 48" RCP-III | | | - | | | < 0.01 | < 0.01 | 25 | 10 | - |
| "UC-1 | 257+45-L- | 6" WATER LINE | | | | | | | 0.01 | | 56 | |
| 12A | 257+45 -L- | BANK STABILIZATION | | | | | | < 0.01 | < 0.01 | 21 | 20 | |
| 13 | 267+70 -L- | EXTEND 36" CSP | 0.08 | | | | 0.01 | | | | | |
| 14 | 268+45 -L- | 18" RCP-III | | | | | | 0.03 | < 0.01 | 106 | 16 | |
| 14 | 267+00 -L- | EXTEND EX 36" CMP | < 0.01 | | | | < 0.01 | < 0.01 | | 3 | | |
| 15 | 269+50 -L- | EXTEND EX 42° CMP | | | | | | < 0.01 | | 23 | | |
| 15 | 269+50 -L- | BANK STABILIZATION | | | | | | < 0.01 | < 0.01 | 20 | 4 | |
| 15 | 271+00 -L- | FILL | | | | | | 0.01 | | 60 | | |
| | | | | | | | | | | | | |
| | A CONTRACTOR OF THE A CONTRACT OF A | | 0.00 | | | | | 0.00 | 0.07 | 4545 | 0.70 | |

| | | | | WE | LAND IMPA | CTS | | | SURFA | CE WATER IN | IPACTS | |
|-------------|----------------------|--------------------------|--|--------------------------------------|--------------------------------------|---|--|------------------------------------|--------------------------------|---|---|------------------------------------|
| 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) | Natura Strear Desigr (ft) |
| 16 | 279+00 -L- | FILL | < 0.01 | | | 1 | 1 | | | | | - |
| 17 | 305+00 -L- | FILL, OTCB | | | | | 0.01 | | < 0.01 | | 10 | _ |
| 17 | 306+00 -L- | EXTEND 30" RCP-IV | | | | | | < 0.01 | | 12 | | |
| 17 | 306+00 -L- | BANK STABILIZATION | | | | | | < 0.01 | < 0.01 | 16 | 6 | |
| 17A | 317+76 -L- | BANK STABILIZATION | | - | | | - | < 0.01 | < 0.01 | 8 | 10 | |
| 17B | 322+90 -L- | BANK STABILIZATION | | | | | | < 0.01 | < 0.01 | 6 | 5 | |
| 18 | 338+00 -L- | BANK STABILIZATION | | | | | | 0.03 | < 0.01 | 185 | 35 | |
| 18 | 338+00 -L- | BANK STABILIZATION | | | | | | 0.02 | | 30 | | |
| 19 | 340+00 -L- | FILL | | | < 0.01 | | | 0.06 | < 0.01 | 356 | 15 | |
| 20 | 350+50 -L- | EXTEND 54" RCP-III | | | | | | < 0.01 | < 0.01 | 12 | 10 | |
| 20 | 352+00 -L- | BANK STABILIZATION | | | | | | < 0.01 | < 0.01 | 22 | 10 | |
| 21 | 48+75 -Y3- | FILL | | 1 | | | | 0.04 | | 210 | | |
| 21 | 48+75 -Y3- | BANK STABILIZATION | | | | | | < 0.01 | < 0.01 | 15 | 20 | |
| 22 | 50+00 -Y3- | FILL, EXTEND 54" RCP-III | | | | | | 0.02 | | 130 | | |
| 22 | 50+00 -Y3- | BANK STABILIZATION | | | | | | < 0.01 | < 0.01 | 15 | 10 | |
| 23 | 58+00 -Y3- | FILL | 0.10 | | | | < 0.01 | 0.04 | 0.01 | 135 | 65 | |
| 23 | 58+00 -Y3- | BANK STABILIZATION | | | | | | < 0.01 | < 0.01 | 11 | 10 | |
| 24 | 16+00 -Y34- | EXTEND 36" RCP-III | < 0.01 | | | | | 0.01 | < 0.01 | 80 | 10 | |
| | | | | | | | | | | | | - |
| HEET 127 SL | IBTOTALS*: | | 0.11 | _ | < 0.01 | | 0.02 | 0.24 | 0.04 | 1243 | 216 | 0 |

| | | | | WE | TLAND IMP7 | CTS | | | SURFA | CE WATER IN | IPACTS | |
|----------------------------------|----------------------------------|--------------------------|--|--------------------------------------|--------------------------------------|---|--|------------------------------------|--|---|---|-----------------------------------|
| 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) | Natura Strear Desig (ft) |
| 25 | 388+34 -L- | CHANNEL CHANGE | | 1 | 1 | | 1 | 0.01 | < 0.01 | 63 | 10 | |
| 25 | 388+34 -L- | BANK STABILIZATION | | | | | 1 | < 0.01 | | 35 | 1.50 | |
| 26 | 388+34 -L- | 72" WSP WORK AREA | | | | - | 0.02 | | | | | |
| 27 | 405+66 -L- | EXTEND 48" RCP | | - | | | | < 0.01 | | 14 | | |
| 27 | 405+66 -L- | CHANNEL CHANGE | | | | | - | 0.01 | < 0.01 | 56 | 7 | |
| 27 | 405+66 -L- | BANK STABILIZATION | | | | | | < 0.01 | < 0.01 | 31 | 12 | |
| 28 | 412+82 -L- | EXTEND 72" RCP /42" WSP | | | | | | 0.02 | | 76 | | |
| 28 | 412+82 -L- | CHANNEL CHANGE | | | | | | 0.01 | < 0.01 | 43 | 12 | |
| 28 | 412+82 -L- | BANK STABILIZATION | | | | 1 | | 0.02 | < 0.01 | 73 | 17 | |
| 29 | 20+91 -Y13RPA- | 42" RCP | | | | | | 0.01 | | 93 | | |
| 29 | 20+91 -Y13RPA- | OUTFALL CHANNEL | | | | | | < 0.01 | < 0.01 | 35 | 8 | |
| 30 | 437+82 -L- | 48" WSP | | | | | - | < 0.01 | | 34 | | |
| 30 | 437+82 -L- | CHANNEL CHANGE | | | | | 1 | < 0.01 | < 0.01 | 10 | 11 | |
| 30 | 437+82 -L- | BANK STABILIZATION | | | | | | 0.01 | < 0.01 | 71 | 10 | |
| 31 | 437+82 -L- | CHANNEL CHANGE | | | | | | < 0.01 | < 0.01 | 37 | 11 | |
| 32 | 449+92 -L- | BANK STABILIZATION | | | | | | 0.02 | < 0.01 | 106 | 23 | |
| 33 | 470+69/473+73-L- | LATERAL BASE DITCH | 0.11 | | 0.04 | | 0.02 | | Construction of the local division of the lo | | | |
| 34 | 470+85 / 477+45 -L- | LATERAL BASE DITCH | | | | | | 0.03 | | 427 | | |
| 34 | 470+85/477+45-L- | 42" ALTERNATE PIPE | | | | | | 0.02 | | 234 | | |
| 34 | 470+85 / 477+45 -L- | BANK STABILIZATION | | | | | | < 0.01 | | 13 | | |
| 35 | 478+17 -L- | BANK STABILIZATION | | | | | | 0.02 | < 0.01 | 99 | 30 | |
| | R SUDTOTAL St | | 0.08 | | - | _ | 0.02 | 0.28 | 0.05 | 1545 | 273 | 0 |
| HEET 1 | D OLD IL ILMI O | | 0.11 | | < 0.01 | | 0.02 | 0.24 | 0.04 | 1243 | 216 | 0 |
| SHEET 1 | 27 SUBTOTALS* | | N. 1 I. | | | | 0.04 | 0.22 | 0.02 | 1550 | 454 | |
| SHEET 12 SHEET 12 SHEET 12 | 27 SUBTOTALS*: 28 SUBTOTALS*: | | 0.11 | | 0.04 | | 0.04 | 0.22 | 0.03 | 1000 | 151 | 0 |





Governor

DONALD R. VAN DER VAART

S. JAY ZIMMERMAN

Director

March 22, 2016

Mr. Philip S. Harris, III, P.E., CPM Natural Environment Section Head Project Development and Environmental Analysis North Carolina Department of Transportation 1598 Mail Service Center Raleigh, North Carolina, 27699-1598

Subject: Modification to the 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act with ADDITIONAL CONDITIONS for Proposed improvements to Cold Water Creek in Cabarrus County, Federal Aid Project No. FANHIMF-085-2(61)55, TIP I-3802A. NCDWR Project No.20150362 v.3

Dear Mr. Harris:

Attached hereto is a modification of NCDWR Project no. 20150362 and associated General Certification No. 3886 issued to The North Carolina Department of Transportation (NCDOT) dated June 2, 2015 version 1; June 29, 2015 version 2.

If we can be of further assistance, do not hesitate to contact us.

Sincerely.

S. Jay Zimmerman, Director Division of Water Resources

Attachments

Electronic copy only distribution:

Crystal Amschler, US Army Corps of Engineers, Asheville Field Office Rodger Rochelle, NC Department of Transportation Larry Thompson, Division 10 Environmental Officer Colin Mellor, NC Department of Transportation Carla Dagnino, NC Department of Transportation Marella Buncick, US Fish and Wildlife Service Marla Chambers, NC Wildlife Resources Commission File Copy

> State of North Carolina |Environmental Quality | Water Resources 1617 Mail Service Center, Raleigh, North Carolina 27699-1617 Phone: 919-807-6300

Modification to the 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act with ADDITIONAL CONDITIONS

THIS CERTIFICATION is issued in conformity with the requirements of Section 401 Public Laws 92-500 and 95-217 of the United States and subject to the North Carolina Division of Water Resources (NCDWR) Regulations in 15 NCAC 2H .0500. This certification authorizes the NCDOT to impact an additional 66 linear feet of temporary impacts to jurisdictional streams and additional 30 feet of bank stabilization in Cabarrus County. The project shall be constructed pursuant to the modification dated received February 18, 2016. The authorized impacts are as described below:

| | | Dil cu | in impacts in the | I uditin itili ei Bus | | | |
|---|-----------------------|--|--|---|---|---|--|
| Site | Bank Stabilization | Permanent Fill in Intermittent Stream (linear ft) | Temporary Fill in Intermittent Stream (linear ft) | Permanent Fill in Perennial Stream (linear ft) | Temporary Fill in Perennial Stream (linear ft) | Total Stream Impact (linear feet) | Stream Impac Requiring Mitigation (linear ft) |
| Original approved impacts at Site 18 | 185 | | | | 35 | 35 | 0 |
| New additional impacts with this approval at Site 18 | 30 | | | | 66 | 66 | 0 |
| TOTAL: | 215 | 0 | 0 | 0 | 101 | 101 | 0 |

Stream Impacts in the Yadkin River Basin

Total Stream Impact for Modification: 96 linear feet

The application provides adequate assurance that the discharge of fill material into the waters of the **Yadkin River Basin** in conjunction with the proposed development will not result in a violation of applicable Water Quality Standards and discharge guidelines. Therefore, the State of North Carolina certifies that this activity will not violate the applicable portions of Sections 301, 302, 303, 306, 307 of PL 92-500 and PL 95-217 if conducted in accordance with the application and conditions hereinafter set forth.

This approval is only valid for the purpose and design that you submitted in your modified application dated received February 18, 2016. All the authorized activities and conditions of certification associated with the original Water Quality Certification dated June 2, 2015 version 1; June 29, 2015 version 2 still apply except where superseded by this certification. Should your project change, you are required to notify the NCDWR and submit a new application. If the property is sold, the new owner must be given a copy of this Certification and approval letter, and is thereby responsible for complying with all the conditions. If any additional wetland impacts, or stream impacts, for this project (now or in the future) exceed one acre or 150 linear feet, respectively, additional compensatory mitigation may be required as described in 15A NCAC 2H .0506 (h) (6) and (7). For this approval to remain valid, you are required to comply with all the conditions listed below. In addition, you should obtain all other federal, state or local permits before proceeding with your project including (but not limited to) Sediment and Erosion control, Coastal Stormwater, Non-discharge and Water Supply watershed regulations. This Certification shall expire on the same day as the expiration date of the corresponding Corps of Engineers Permit.

Condition(s) of Certification:

1. This modification is applicable only to the additional proposed activities. All of the authorized activities and conditions of certification associated with the original Water Quality Certification dated June 2, 2015 and subsequent modification dated June 29, 2015 still apply except where superseded by this certification.

Violations of any condition herein set forth may result in revocation of this Certification and may result in criminal and/or civil penalties. This Certification shall become null and void unless the above conditions are made conditions of the Federal 404 and/or Coastal Area Management Act Permit. This Certification shall expire upon the expiration of the 404 or CAMA permit.

If you wish to contest any statement in the attached Certification you must file a petition for an administrative

hearing. You may obtain the petition form from the office of Administrative hearings. You must file the petition with the office of Administrative Hearings within sixty (60) days of receipt of this notice. A petition is considered filed when it is received in the office of Administrative Hearings during normal office hours. The Office of Administrative Hearings accepts filings Monday through Friday between the hours of 8:00am and 5:00pm, except for official state holidays. The original and one (1) copy of the petition must be filed with the Office of Administrative Hearings.

The petition may be faxed-provided the original and one copy of the document is received by the Office of Administrative Hearings within five (5) business days following the faxed transmission. The mailing address for the Office of Administrative Hearings is:

Office of Administrative Hearings 6714 Mail Service Center Raleigh, NC 27699-6714 Telephone: (919) 431-3000, Facsimile: (919) 431-3100

A copy of the petition must also be served on DEQ as follows:

Mr. Sam M. Hayes, General Counsel Department of Environmental Quality 1601 Mail Service Center

This the 22nd day of March 2015

DIVISION OF WATER RESOURCES

S. Jay Zimmerman, Director

PAT MCCRORY

| Water | r Reso | urces |
|-------|--------|-------|

Governor

DONALD R. VAN DER VAART

Secretary S. JAY ZIMMERMAN

| TAL GOALITY | | Dire |
|---|---------------|------|
| NCDWR Project No.: | County: | |
| Applicant: | | |
| Project Name: | | |
| Date of Issuance of 401 Water Quality C | ertification: | |

Certificate of Completion

Upon completion of all work approved within the 401 Water Quality Certification or applicable Buffer Rules, and any subsequent modifications, the applicant is required to return this certificate to the 401 Transportation Permitting Unit, North Carolina Division of Water Resources, 1650 Mail Service Center, Raleigh, NC, 27699-1650. This form may be returned to NCDWR by the applicant, the applicant's authorized agent, or the project engineer. It is not necessary to send certificates from all of these.

Applicant's Certification

, hereby state that, to the best of my abilities, due care and diligence I, was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the 401 Water Quality Certification and Buffer Rules, the approved plans and specifications, and other supporting materials.

Signature:

Date: _____

Agent's Certification

_____, hereby state that, to the best of my abilities, due care and diligence I, was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the 401 Water Quality Certification and Buffer Rules, the approved plans and specifications, and other supporting materials.

Signature:

Date:

Engineer's Certification

Final Partial

_____, as a duly registered Professional Engineer in the State of North I, Carolina, having been authorized to observe (periodically, weekly, full time) the construction of the project for the Permittee hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the 401 Water Ouality Certification and Buffer Rules, the approved plans and specifications, and other supporting materials.

Signature _____ Registration No. _____

Date

State of North Carolina |Environmental Quality | Water Resources 1617 Mail Service Center, Raleigh, North Carolina 27699-1617 Phone: 919-807-6300



ROY COOPER Governor

MICHAEL S. REGAN Secretary

S. JAY ZIMMERMAN Director

January 30, 2017

Mr. Philip S. Harris, III, P.E., CPM Natural Environment Section Head Project Development and Environmental Analysis North Carolina Department of Transportation 1598 Mail Service Center Raleigh, North Carolina, 27699-1598

Subject: Modification to the 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act with ADDITIONAL CONDITIONS for Proposed improvements to Cold Water Creek in Cabarrus County, Federal Aid Project No. FANHIMF-085-2(61)55, TIP I-3802A. NCDWR Project No.20150362 v.4

Dear Mr. Harris:

Attached hereto is a modification of NCDWR Project no. 20150362 and associated General Certification No. 3886 issued to The North Carolina Department of Transportation (NCDOT) dated June 2, 2015 version 1; June 29, 2015 version 2; March 22, 2016 version 3. NC DOT included Site 18 in the modification request, which was previously modified by NC DWR in Version 3, therefore no changes for Site 18 are included in the Version 4 modification.

If we can be of further assistance, do not hesitate to contact us.

Sincerely,

S. Jay Zimmerman, Director Division of Water Resources

Attachments

Electronic copy only distribution:

Crystal Amschler, US Army Corps of Engineers, Asheville Field Office Larry Thompson, Division 10 Environmental Officer Colin Mellor, NC Department of Transportation Carla Dagnino, NC Department of Transportation Marella Buncick, US Fish and Wildlife Service Marla Chambers, NC Wildlife Resources Commission Donna Hood, NC DWR Mooresville Regional Office File Copy

Nothing Compares

State of North Carolina | Environmental Quality 1617 Mail Service Center | Raleigh, North Carolina 27699-1617

Modification to the 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act with ADDITIONAL CONDITIONS

THIS CERTIFICATION is issued in conformity with the requirements of Section 401 Public Laws 92-500 and 95-217 of the United States and subject to the North Carolina Division of Water Resources (NCDWR) Regulations in 15 NCAC 2H .0500. This certification authorizes the NCDOT to impact an additional 19 linear feet of temporary impacts to jurisdictional streams and additional 35 feet of bank stabilization in Cabarrus County. The project shall be constructed pursuant to the modification dated received December 2, 2016. The authorized impacts are as described below:

| Site . | Bank Stabilization | Temporary Fill in Intermittent Stream (linear ft) | Permanent Fill in Perennial Stream (linear ft) | Temporary Fill in Perennial Stream (linear ft) | Additional Stream Impact (linear ft) | Stream Impacts Requiring Mitigation (linear ft) |
|--|-----------------------|--|--|--|---|---|
| Original approved impacts at <u>Site 2</u> | 137 | | | 30 | | |
| New impacts with this approval at <u>Site 2</u> | <u>35</u> | | | | | |
| Original approved impacts at <u>Site UC-1</u> | | | | 37 | | |
| New impacts with this approval at <u>Site UC-1</u> | | | | <u>19</u> | | |
| Total Additional Impacts | 35 | | | 19 | 54 | |

Stream Impacts in the Yadkin-Pee Dee River Basi

Total Stream Impact for Modification): 54 linear feet

The application provides adequate assurance that the discharge of fill material into the waters of the Yadkin-PeeDee River Basin in conjunction with the proposed development will not result in a violation of applicable Water Quality Standards and discharge guidelines. Therefore, the State of North Carolina certifies that this activity will not violate the applicable portions of Sections 301, 302, 303, 306, 307 of PL 92-500 and PL 95-217 if conducted in accordance with the application and conditions hereinafter set forth.

This approval is only valid for the purpose and design that you submitted in your modified application dated received December 2, 2016, with payment received December 5, 2016. All the authorized activities and conditions of certification associated with the original Water Quality Certification dated June 2, 2015 version 1; June 29, 2015 version 2; March 22, 2016 version 3 still apply except where superseded by this certification. Should your project change, you are required to notify the NCDWR and submit a new application. If the property is sold, the new owner must be given a copy of this Certification and approval letter, and is thereby responsible for complying with all the conditions. If any additional wetland impacts, or stream impacts, for this project (now or in the future) exceed one acre or 150 linear feet, respectively, additional compensatory mitigation may be required as described in 15A NCAC 2H .0506 (h) (6) and (7). For this approval to remain valid, you are required to comply with all the conditions listed below. In addition, you should obtain all other federal, state or local permits before proceeding with your project including (but not limited to) Sediment and Erosion control, Coastal Stormwater, Non-discharge and Water Supply watershed regulations. This Certification shall expire on the same day as the expiration date of the corresponding Corps of Engineers Permit.

Condition(s) of Certification:

- 1. Additional mitigation is not required at this time, however; Version 3 and Version 4 have added an additional 131 feet of bank stabilization and 19 feet of temporary stream impacts. Future modifications may require additional mitigation.
- 2. This modification is applicable only to the additional proposed activities. All of the authorized activities and conditions of certification associated with the original Water Quality Certification dated June 2, 2015 and subsequent modification dated June 29, 2015 still apply except where superseded by this certification

Violations of any condition herein set forth may result in revocation of this Certification and may result in criminal and/or civil penalties. This Certification shall become null and void unless the above conditions are made conditions of the Federal 404 and/or Coastal Area Management Act Permit. This Certification shall expire upon the expiration of the 404 or CAMA permit.

If you wish to contest any statement in the attached Certification you must file a petition for an administrative hearing. You may obtain the petition form from the office of Administrative hearings. You must file the petition with the office of Administrative Hearings within sixty (60) days of receipt of this notice. A petition is considered filed when it is received in the office of Administrative Hearings during normal office hours. The Office of Administrative Hearings accepts filings Monday through Friday between the hours of 8:00am and 5:00pm, except for official state holidays. The original and one (1) copy of the petition must be filed with the Office of Administrative Hearings.

The petition may be faxed-provided the original and one copy of the document is received by the Office of Administrative Hearings within five (5) business days following the faxed transmission. The mailing address for the Office of Administrative Hearings is:

Office of Administrative Hearings 6714 Mail Service Center Raleigh, NC 27699-6714 Telephone: (919) 431-3000, Facsimile: (919) 431-3100

A copy of the petition must also be served on DEQ as follows:

Mr. Sam M. Hayes, General Counsel Department of Environmental Quality 1601 Mail Service Center

This the 31st day of January 2017

DIVISION OF WATER RESOURCES

pomfor:

S. Jay Zimmerman, Director

| | | ROY COOPER Governor |
|--|---------|------------------------|
| | | |
| Environmental Quality | | |
| NCDWR Project No.: | County: | |
| Applicant: | | |
| Project Name: | | |
| Date of Issuance of 401 Water Quality Certification: | | |
| Certificate of Completion | | |

Upon completion of all work approved within the 401 Water Quality Certification or applicable Buffer Rules, and any subsequent modifications, the applicant is required to return this certificate to the 401 Transportation Permitting Unit, North Carolina Division of Water Resources, 1617 Mail Service Center, Raleigh, NC, 27699-1617. This form may be returned to NCDWR by the applicant, the applicant's authorized agent, or the project engineer. It is not necessary to send certificates from all of these.

Applicant's Certification

, hereby state that, to the best of my abilities, due care and diligence I, was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the 401 Water Quality Certification and Buffer Rules, the approved plans and specifications, and other supporting materials.

Signature:

Date:

Agent's Certification

_____, hereby state that, to the best of my abilities, due care and diligence Ι, was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the 401 Water Quality Certification and Buffer Rules, the approved plans and specifications, and other supporting materials.

Signature:

Date:

Engineer's Certification

Final Partial

I, ______, as a duly registered Professional Engineer in the State of North Carolina, having been authorized to observe (periodically, weekly, full time) the construction of the project for the Permittee hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the 401 Water Quality Certification and Buffer Rules, the approved plans and specifications, and other supporting materials.

Signature _____ Registration No. _____ Date _____

Nothing Compares _____

State of North Carolina | Environmental Quality 1617 Mail Service Center | Raleigh, North Carolina 27699-1617









8020/138024/Hudrailres/PERMITS Environmental/Dermit Mod/Mod 2/IRC Revised/NEV/neb contours/138022 rdu neb

















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| | | | | | | | Hand | | | Existing | Existing | |
| | | | Permanent | Temp. | Excavation | Mechanized | Clearing | Permanent | Temp. | Channel | Channel | Natural |
| Site | Station | Structure | Fill In | Fill In | in | Clearing | in | SW | SW | Impacts | Impacts | Stream |
| No. | (From/To) | Size / Type | Wetlands | Wetlands | Wetlands | in Wetlands | Wetlands | impacts | impacts | Permanent | Temp. | Design |
| | | | (ac) | (ac) | (ac) | (ac) | (ac) | (ac) | (ac) | (ft) | (ft) | (ft) |
| 1 | 83+00 -L- | BANK STABILIZATION | | | | | | < 0.01 | < 0.01 | 15 | 10 | |
| **2 | 94+68 -L- | BANK STABILIZATION | | | | | | 0.04 | < 0.01 | 172 | 20 | |
| 3 | 97+00 -L- | EXTEND EX 30" RCP-III | | | | | | < 0.01 | < 0.01 | 15 | 20 | |
| 4 | 157+27 -L- | EXTEND EX 42" RCP-III | | | | | | < 0.01 | < 0.01 | 7 | 10 | |
| 4 | 157+25 -L- | BANK STABILIZATION | | | | | | < 0.01 | < 0.01 | 14 | 10 | |
| 6 | 193+25 -L- | FILL | | | | | | 0.01 | | 95 | | |
| 7 | 193+00 -L- | 6' LATERAL BASE DITCH | | | | | | 0.03 | < 0.01 | 140 | 10 | |
| 7A | 44+87 -Y7- | REPLACE EXIST. 48" CMP | | | | | | 0.02 | | 120 | | |
| 8 | 195+25 -L- | 4' LATERAL BASE DITCH | | | | | | | < 0.01 | | 15 | |
| 9 | 205+50 -L- | BANK STABILIZATION | | | | | | < 0.01 | < 0.01 | 9 | 5 | |
| 9A | 205+50 -L- | BANK STABILIZATION | | | | | | < 0.01 | < 0.01 | 5 | 5 | |
| 10 | 230+75 - 237+60 -L- | CHANNEL CHANGE | | | | | | 0.11 | < 0.01 | 666 | 30 | |
| 10A | 229+40 -L- | BANK STABILIZATION | | | | | | < 0.01 | < 0.01 | 7 | 12 | |
| 12 | 241+00 / 248+00 -L- | BANK STABILIZATION | | | | | | 0.01 | < 0.01 | 22 | 20 | |
| 12 | 241+40 -L- | EXTEND EX 48" RCP-III | | | | | | < 0.01 | < 0.01 | 25 | 10 | |
| ***UC-1 | 257+45 -L- | 6" WATER LINE | | | | | | | 0.01 | | 56 | |
| 12A | 257+45 -L- | BANK STABILIZATION | | | | | | < 0.01 | < 0.01 | 21 | 20 | |
| 13 | 267+70 -L- | EXTEND 36" CSP | 0.08 | | | | 0.01 | | | | | |
| 14 | 268+45 -L- | 18" RCP-III | | | | | | 0.03 | < 0.01 | 106 | 16 | |
| 14 | 267+00 -L- | EXTEND EX 36" CMP | < 0.01 | | | | < 0.01 | < 0.01 | | 3 | | |
| 15 | 269+50 -L- | EXTEND EX 42" CMP | | | | | | < 0.01 | | 23 | | |
| 15 | 269+50 -L- | BANK STABILIZATION | | | | | | < 0.01 | < 0.01 | 20 | 4 | |
| 15 | 271+00 -L- | FILL | | | | | | 0.01 | | 60 | | |
| | | | | | | | | | | | | |
| SHEET 12 | 6 SUBTOTALS*: | | 0.08 | | | | 0.02 | 0.28 | 0.05 | 1545 | 273 | 0 |

*Rounded subtotals are sum of actual impacts

NOTES: Site 5 was eliminated by reconfiguring storm drainage system per 4C meeting comments. Site 11 was eliminated by reconfiguring storm drainage system per 4C meeting comments. NC DEPA Site 7A was added after the 4C meeting. D Site UC-1 was added after the 4C meeting. ** Permanent channel impacts added to acount for additional bank stabilization 8/31/2016 C. *** Temporary channel impact added to account for additional clearing 8/31/2016 SHEET

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| RTMENT OF TRANSPORTATION | | | | | |
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| IVISION OF HIGHWAYS | | | | | |
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|-------------|----------------------|--------------------------|----------------------------------|------------------------------|------------------------------|---------------------------------------|------------------------------------|----------------------------|------------------------|---|---|-----------------------------|
| 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 | Permanent SW impacts | Temp. SW impacts | Existing Channel Impacts Permanent | Existing Channel Impacts Temp. | Natural Stream Design |
| | | | (ac) | (ac) | (ac) | (ac) | (ac) | (ac) | (ac) | (ft) | (ft) | (ft) |
| 16 | 279+00 -L- | FILL | < 0.01 | | | | | | | | | |
| 17 | 305+00 -L- | FILL, OTCB | | | | | 0.01 | | < 0.01 | | 10 | |
| 17 | 306+00 -L- | EXTEND 30" RCP-IV | | | | | | < 0.01 | | 12 | | |
| 17 | 306+00 -L- | BANK STABILIZATION | | | | | | < 0.01 | < 0.01 | 16 | 6 | |
| 17A | 317+76 -L- | BANK STABILIZATION | | | | | | < 0.01 | < 0.01 | 8 | 10 | |
| 17B | 322+90 -L- | BANK STABILIZATION | | | | | | < 0.01 | < 0.01 | 6 | 5 | |
| 18 | 338+00 -L- | BANK STABILIZATION | | | | | | 0.03 | < 0.01 | 185 | 35 | |
| 18 | 338+00 -L- | BANK STABILIZATION | | | | | | 0.02 | | 30 | | |
| 19 | 340+00 -L- | FILL | | | < 0.01 | | | 0.06 | < 0.01 | 356 | 15 | |
| 20 | 350+50 -L- | EXTEND 54" RCP-III | | | | | | < 0.01 | < 0.01 | 12 | 10 | |
| 20 | 352+00 -L- | BANK STABILIZATION | | | | | | < 0.01 | < 0.01 | 22 | 10 | |
| 21 | 48+75 -Y3- | FILL | | | | | | 0.04 | | 210 | | |
| 21 | 48+75 -Y3- | BANK STABILIZATION | | | | | | < 0.01 | < 0.01 | 15 | 20 | |
| 22 | 50+00 -Y3- | FILL, EXTEND 54" RCP-III | | | | | | 0.02 | | 130 | | |
| 22 | 50+00 -Y3- | BANK STABILIZATION | | | | | | < 0.01 | < 0.01 | 15 | 10 | |
| 23 | 58+00 -Y3- | FILL | 0.10 | | | | < 0.01 | 0.04 | 0.01 | 135 | 65 | |
| 23 | 58+00 -Y3- | BANK STABILIZATION | | | | | | < 0.01 | < 0.01 | 11 | 10 | |
| 24 | 16+00 -Y34- | EXTEND 36" RCP-III | < 0.01 | | | | | 0.01 | < 0.01 | 80 | 10 | <u> </u> |
| | | | | | | | | | | | | + |
| | | | | | | | | | | | | <u> </u> |
| SHEET 12 | 27 SUBTOTALS*: | | 0.11 | | < 0.01 | | 0.02 | 0.24 | 0.04 | 1243 | 216 | 0 |

*Rounded subtotals are sum of actual impacts

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| NC DEPARTMENT OF TRANSPORTATION | | | | | | | |
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| DIVISION OF HIGHWAYS | | | | | | | |
| 09/15/2016 | | | | | | | |
| CABARRUS AND ROWAN | | | | | | | |
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| | | | | WETLAND IMPACTS I SURFACE WAT | | | | | | | IPACTS | |
|---------|---------------------|-------------------------|----------------------|-------------------------------|------------------|------------------------|------------------------|-----------------|-----------------|--------------------------------|--------------------------------|----------------|
| Site | Station | Structure | Permanent Fill In | Temp. Fill In | Excavation | Mechanized Clearing | Hand Clearing in | Permanent SW | Temp. SW | Existing Channel Impacts | Existing Channel Impacts | Natura |
| No. | (From/To) | Size / Type | Wetlands (ac) | Wetlands (ac) | Wetlands (ac) | in Wetlands (ac) | Wetlands (ac) | impacts (ac) | impacts (ac) | Permanent (ft) | Temp. (ft) | Desigr (ft) |
| 25 | 388+34 -L- | CHANNEL CHANGE | | | | | | 0.01 | < 0.01 | 63 | 10 | |
| 25 | 388+34 -L- | BANK STABILIZATION | | | | | | < 0.01 | | 35 | | |
| 26 | 388+34 -L- | 72" WSP WORK AREA | | | | | 0.02 | | | | | |
| 27 | 405+66 -L- | EXTEND 48" RCP | | | | | | < 0.01 | | 14 | | |
| 27 | 405+66 -L- | CHANNEL CHANGE | | | | | | 0.01 | < 0.01 | 56 | 7 | |
| 27 | 405+66 -L- | BANK STABILIZATION | | | | | | < 0.01 | < 0.01 | 31 | 12 | |
| 28 | 412+82 -L- | EXTEND 72" RCP /42" WSP | | | | | | 0.02 | | 76 | | |
| 28 | 412+82 -L- | CHANNEL CHANGE | | | | | | 0.01 | < 0.01 | 43 | 12 | |
| 28 | 412+82 -L- | BANK STABILIZATION | | | | | | 0.02 | < 0.01 | 73 | 17 | |
| 29 | 20+91 -Y13RPA- | 42" RCP | | | | | | 0.01 | | 93 | | |
| 29 | 20+91 -Y13RPA- | OUTFALL CHANNEL | | | | | | < 0.01 | < 0.01 | 35 | 8 | |
| 30 | 437+82 -L- | 48" WSP | | | | | | < 0.01 | | 34 | | |
| 30 | 437+82 -L- | CHANNEL CHANGE | | | | | | < 0.01 | < 0.01 | 10 | 11 | |
| 30 | 437+82 -L- | BANK STABILIZATION | | | | | | 0.01 | < 0.01 | 71 | 10 | |
| 31 | 437+82 -L- | CHANNEL CHANGE | | | | | | < 0.01 | < 0.01 | 37 | 11 | |
| 32 | 449+92 -L- | BANK STABILIZATION | | | | | | 0.02 | < 0.01 | 106 | 23 | |
| 33 | 470+69 / 473+73 -L- | LATERAL BASE DITCH | 0.11 | | 0.04 | | 0.02 | | | | | |
| 34 | 470+85 / 477+45 -L- | LATERAL BASE DITCH | | | | | | 0.03 | | 427 | | |
| 34 | 470+85 / 477+45 -L- | 42" ALTERNATE PIPE | | | | | | 0.02 | | 234 | | |
| 34 | 470+85 / 477+45 -L- | BANK STABILIZATION | | | | | | < 0.01 | | 13 | | |
| 35 | 478+17 -L- | BANK STABILIZATION | | | | | | 0.02 | < 0.01 | 99 | 30 | |
| HEET 12 | 26 SUBTOTALS*: | | 0.08 | | | | 0.02 | 0.28 | 0.05 | 1545 | 273 | 0 |
| HEET 12 | 27 SUBTOTALS*: | | 0.11 | | < 0.01 | | 0.02 | 0.24 | 0.04 | 1243 | 216 | 0 |
| HEET 12 | 28 SUBTOTALS*: | | 0.11 | | 0.04 | | 0.04 | 0.22 | 0.03 | 1550 | 151 | 0 |
| ROJECT | TOTALS*: | | 0,30 | 0.00 | 0.04 | 0.00 | 0.08 | 0.74 | 0.12 | 4338 | 640 | 0 |

*Rounded subtotals and totals are sum of actual impacts

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NOTES: In addition to the project totals listed above, this permit includes a total of 0.01 acres of Temporary Impacts in Wetlands for Erosion Control Devices per the NCDOT Roadside Environmental Unit.

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