



## Pre-Construction Notification (PCN) Form

For Nationwide Permits and Regional General Permits  
(along with corresponding Water Quality Certifications)

April 13, 2022 Ver 4.3

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

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

Below is a link to the online help file.

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

### A. Processing Information



#### Pre-Filing Meeting Date Request was submitted on: \*

4/20/2022

If this is a courtesy copy, please fill in this with the submission date.

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

Halifax

Northampton

#### Is this a NCDMS Project? \*

Yes  No

Click Yes, only if NCDMS is the applicant or co-applicant.

#### Is this project a public transportation project? \*

Yes  No

This is any publicly funded by municipal, state or federal funds road, rail, airport transportation project.

#### Is this a NCDOT Project? \*

Yes  No

#### (NCDOT only) T.I.P. or state project number:

BR-0021

#### WBS # \*

67021.1.1

(for NCDOT use only)

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

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

#### Has this PCN previously been submitted? \*

Yes  
 No

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

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

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

Yes  No

Nationwide Permit (NWP) Number:

6 - Survey Activities

#### NWP Numbers (for multiple NWPS):

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

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

check all that apply

- 401 Water Quality Certification - Regular  
 Non-404 Jurisdictional General Permit  
 Individual 401 Water Quality Certification  
 401 Water Quality Certification - Express  
 Riparian Buffer Authorization

1e. Is this notification solely for the record because written approval is not required?

\*

For the record only for DWR 401 Certification:

Yes  No

For the record only for Corps Permit:

Yes  No

1f. Is this an after-the-fact permit application? \*

Yes  No

1g. Is payment into a mitigation bank or in-lieu fee program proposed for mitigation of impacts?

If so, attach the acceptance letter from mitigation bank or in-lieu fee program.

Yes  No

Acceptance Letter Attachment

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

FILE TYPE MUST BE PDF

1h. Is the project located in any of NC's twenty coastal counties? \*

Yes  No

1j. Is the project located in a designated trout watershed? \*

Yes  No

Link to trout information: <http://www.saw.usace.army.mil/Missions/Regulatory-Permit-Program/Agency-Coordination/Trout.aspx>

## B. Applicant Information



1a. Who is the Primary Contact? \*

Jason Dilday

1b. Primary Contact Email: \*

jdilday1@ncdot.gov

1c. Primary Contact Phone: \*

(xxx)xxx-xxxx

(919)707-6111

1d. Who is applying for the permit? \*

Owner

(Check all that apply)

Applicant (other than owner)

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

Yes  No

## 2. Owner Information

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

n/a

2b. Deed book and page no.:

2c. Contact Person:

(for Corporations)

2d. Address \*

Street Address

n/a

Address Line 2

City

n/a

Postal / Zip Code

n/a

State / Province / Region

n/a

Country

n/a

2e. Telephone Number: \*

(xxx)xxx-xxxx

(919)707-6000

2f. Fax Number:

(xxx)xxx-xxxx

2g. Email Address: \*

maturchy@ncdot.gov

## 3. Applicant Information (if different from owner)

3a. Name: \*

NCDOT

**3b. Business Name:**

(if applicable)

**3c. Address \***

Street Address

1598 Mail Service Center

Address Line 2

City

Raleigh

Postal / Zip Code

27699-1598

State / Province / Region

NC

Country

US

**3d. Telephone Number: \***

(919)707-6000

(xxx)xxx-xxxx

**3e. Fax Number:**

(xxx)xxx-xxxx

**3f. Email Address: \***

maturchy@ncdot.gov

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## C. Project Information and Prior Project History

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### 1. Project Information

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**1a. Name of project: \***

Replacement of Bridge No. 51 on NC 48 over the Roanoke River (BR-0021-Central)

**1b. Subdivision name:**

(if appropriate)

**1c. Nearest municipality / town: \***

Roanoke Rapids

### 2. Project Identification

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**2a. Property Identification Number:**

(tax PIN or parcel ID)

**2b. Property size:**

(in acres)

**2c. Project Address**

Street Address

Address Line 2

City

Postal / Zip Code

State / Province / Region

Country

**2d. Site coordinates in decimal degrees**

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

**Latitude: \***

36.481538

ex: 34.208504

**Longitude: \***

-77.645355

-77.796371

### 3. Surface Waters

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

Roanoke River

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

WS-IV CA/C

[Surface Water Lookup](#)

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

Roanoke

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

030101070101

[River Basin Lookup](#)

### 4. Project Description and History

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

NC 48 crosses the Roanoke River between Roanoke Rapids and Gaston. There is forest in the river floodplain, and adjoining commercial and urban development. There is a public boat ramp adjoining the bridge.

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

Yes  No  Unknown

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

0.51

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

(intermittent and perennial)

4,212

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

The purpose of the proposed work is conduct test borings for the design of the foundation to replace Bridge No. 51 on NC 48 over the Roanoke River.

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

The NCDOT Geotechnical Unit wants to conduct borings so that the bridge foundations can be designed. Attached is the revised BR-0021 boring plan with bent/boring designations. It was generated (at 50:1) in Microstation. Boring symbology and the line work for the proposed structure (new alignment to the east). Interior bents 2 through 7 (12 borings) would need to be drilled in the river, by barge.

**5. Jurisdictional Determinations**

**5a. Have the wetlands or streams been delineated on the property or proposed impact areas? \***

Yes  No  Unknown

Comments:

**5b. If the Corps made a jurisdictional determination, what type of determination was made? \***

Preliminary  Approved  Not Verified  Unknown  N/A

Corps AID Number:

Example: SAW-2017-99999

**5c. If 5a is yes, who delineated the jurisdictional areas?**

Name (if known): Nathan Howell, Jim Mason

Agency/Consultant Company: Three Oaks Engineering

Other:

**6. Future Project Plans**

**6a. Is this a phased project? \***

Yes  No

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

**D. Proposed Impacts Inventory**



**1. Impacts Summary**

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

Wetlands  Streams-tributaries  Buffers  
 Open Waters  Pond Construction

**4. Open Water Impacts**

If there are proposed impacts to lakes, ponds, estuaries, tributaries, sounds, the Atlantic Ocean, or any other open water of the U.S. then individually list all open water impacts below.

4a. Site #* (?)	4a1. Impact Reason	4b. Impact type* (?)	4c. Name of waterbody (?)	4d. Activity type*	4e. Waterbody type*	4f. Impact area*
1	Borings	T	Roanoke River	Excavation	Tributary	0.00 <small>(acres)</small>

**4g. Total temporary open water Impacts:**

0.00

**4g. Total permanent open water impacts:**

0.00

#### 4g. Total open water impacts:

0.00

#### 4h. Comments:

Total temporary surface water impacts will be <0.0001 ac.

## E. Impact Justification and Mitigation



### 1. Avoidance and Minimization

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

Borings drilled in the river, from the barge, will begin with mud-rotary drill tooling. Based on a scoping visit, we anticipate little soil below the mudline. Crystalline rock is anticipated to be very shallow in the river. In many river borings, water is flowing on crystalline rock. When crystalline rock is encountered in the river, we will switch to wireline NQ rock coring equipment and core rock up to 30 ft depth, for foundation design purposes.

Land-based borings will not require a marsh buggy.

Borings for End Bent 1 and Bent 1 will be advanced using an atv (rubber-tired) drill rig using hollow-stem augers. All borings on the south side of the bridge, not being drilled in the Roanoke River, are on Westrock papermill's property. Borings for Bent 9, B10-A, Bent 13, Bent 14, and End Bent 2 will also be drilled using the atv drill rig with hollow-stem augers and wireline NQ core tooling.

Borings B10-B, B11-A, B11-B, B12-A, and B12-B will be drilled from barge, in Westrock's cooling canal, using mud-rotary tooling and wireline NQ core tooling. The barge will be placed into the canal by crane/boom truck. These borings will be backfilled with grout immediately after drilling.

Land-based borings will be left open (but covered) for 24 hours and then groundwater levels will be measured. After groundwater measurement we will backfill the land-based borings and backfill with cuttings and a 2 ft bentonite cap.

A few additional details:

- One boring per day is anticipated
- No borings are proposed in wetlands
- No trees will be cleared, they will offset if needed
- Borings are approximately 4' diameter
- 20 or less borings are proposed in water or at top of bank
- Total temporary surface water impacts will be <0.0001 ac.
- T&E biological conclusions are all No Effect, excluding sturgeon species

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

No in-water borings will occur between February through September in accordance with the designation of this area's classification as an Inland Primary Nursery Area and Section 7 Informal Concurrence for the Atlantic Sturgeon from NOAA-Fisheries.

### 2. Compensatory Mitigation for Impacts to Waters of the U.S. or Waters of the State

#### 2a. Does the project require Compensatory Mitigation for impacts to Waters of the U.S. or Waters of the State?

Yes  No

#### 2b. If this project DOES NOT require Compensatory Mitigation, explain why:

The request is for geotechnical borings only. No permanent impacts

NC Stream Temperature Classification Maps can be found under the Mitigation Concepts tab on the Wilmington District's [RIBITS](#) website.

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



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

### 1. Diffuse Flow Plan

#### 1a. Does the project include or is it adjacent to protected riparian buffers identified within one of the NC Riparian Buffer Protection Rules?

Yes  No

For a list of options to meet the diffuse flow requirements, click [here](#).

#### If no, explain why:

The Roanoke Basin does not have protected riparian buffers.

### 2. Stormwater Management Plan

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

Yes  No

#### 2b. Does this project meet the requirements for low density projects as defined in 15A NCAC 02H .1003(2)? \*

Yes  No

To look up low density requirement click here [15A NCAC 02H .1003\(2\)](#).

2c. Does this project have a stormwater management plan (SMP) reviewed and approved under a state stormwater program or state-approved local government stormwater program? \*

- Yes  No  
 N/A - project disturbs < 1 acre

Hint: projects that have vested rights, exemptions, or grandfathering from state or locally implemented stormwater programs or projects that satisfy state or locally-implemented stormwater programs through use of community in-lieu programs should answer no to this question.

Comments:

## G. Supplementary Information



### 1. Environmental Documentation

1a. Does the project involve an expenditure of public (federal/state/local) funds or the use of public (federal/state) land? \*

- Yes  No

1b. If you answered "yes" to the above, does the project require preparation of an environmental document pursuant to the requirements of the National or State (North Carolina) Environmental Policy Act (NEPA/SEPA)? \*

- Yes  No

1c. If you answered "yes" to the above, has the document review been finalized by the State Clearing House? (If so, attach a copy of the NEPA or SEPA final approval letter.) \*

- Yes  No

Comments: \*

A Categorical Exclusion document is in preparation for the bridge replacement.

### 2. Violations (DWR Requirement)

2a. Is the site in violation of DWR Water Quality Certification Rules (15A NCAC 2H .0500), Isolated Wetland Rules (15A NCAC 2H .1300), or DWR Surface Water or Wetland Standards or Riparian Buffer Rules (15A NCAC 2B .0200)? \*

- Yes  No

### 3. Cumulative Impacts (DWR Requirement)

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

- Yes  No

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

The borings are needed to assist with the design for the future bridge replacement.

### 4. Sewage Disposal (DWR Requirement)

4a. Is sewage disposal required by DWR for this project? \*

- Yes  No  N/A

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

5a. Will this project occur in or near an area with federally protected species or habitat? \*

- Yes  No

5b. Have you checked with the USFWS concerning Endangered Species Act impacts? \*

- Yes  No

5c. If yes, indicate the USFWS Field Office you have contacted.

Raleigh

5d. Is another Federal agency involved? \*

- Yes  No  Unknown

What Federal Agency is involved?

NOAA Fisheries

5e. Is this a DOT project located within Division's 1-8? \*

- Yes  No

5j. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat? \*

NC Natural Heritage databases and field surveys, NOAA coordination. Informal concurrence was received from NOAA for Atlantic sturgeon on 8/24/2022. All other listed protected species received biological conclusions of No Effect.

### 6. Essential Fish Habitat (Corps Requirement)

6a. Will this project occur in or near an area designated as an Essential Fish Habitat? \*

- Yes  No

Are there submerged aquatic vegetation (SAV) around the project vicinity? \*

Yes  No  Unknown

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

EFH mapping

## 7. Historic or Prehistoric Cultural Resources (Corps Requirement)

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

7a. Will this project occur in or near an area that the state, federal or tribal governments have designated as having historic or cultural preservation status (e.g., National Historic Trust designation or properties significant in North Carolina history and archaeology)? \*

Yes  No

7b. What data sources did you use to determine whether your site would impact historic or archeological resources? \*

Coordination with SHPO.

## 8. Flood Zone Designation (Corps Requirement)

Link to the FEMA Floodplain Maps: <https://msc.fema.gov/portal/search>

8a. Will this project occur in a FEMA-designated 100-year floodplain? \*

Yes  No

8b. If yes, explain how project meets FEMA requirements:

The proposed work is for temporary impacts.

8c. What source(s) did you use to make the floodplain determination? \*

FEMA mapping

## Miscellaneous

### Comments

The project falls on the boundary for NCDOT Divisions 4 and 1. Previous coordination has occurred with Tom Steffens. Division 4 will oversee construction.

Please use the space below to attach all required documentation or any additional information you feel is helpful for application review. Documents should be combined into one file when possible, with a Cover Letter, Table of Contents, and a Cover Sheet for each Section preferred.

[Click the upload button or drag and drop files here to attach document](#)

BR-0021 Nationwide Halifax Northampton September 1 2022.pdf

14.59MB

File must be PDF or KMZ

## Signature

\*

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

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

Full Name: \*

Mack Christopher Rivenbark, III

Signature \*

*Mack Christopher Rivenbark*

Date

9/1/2022



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

ROY COOPER  
GOVERNOR

J. ERIC BOYETTE  
SECRETARY

August 17, 2022

Mr. David Bernhart  
Assistant Regional Administrator for Protected Resources  
National Marine Fisheries Service  
Southeast Regional Office  
St. Petersburg, Florida

Re: Request for Initiation of Expedited Informal Consultation under section 7(a)(2) of the Endangered Species Act for geotechnical borings for the replacement of Bridge No. 51 on NC 48 over Roanoke River, Halifax County, North Carolina, BR-0021

Dear Mr. Bernhart:

The North Carolina Department of Transportation (NCDOT) proposes to replace Bridge No. 51 on NC 48 over the Roanoke River in Halifax and Northampton Counties, North Carolina. To design the foundations of the proposed bridge, NCDOT must conduct geotechnical test borings in the river, as described below. We request initiation of informal consultation under section 7(a)(2) of the Endangered Species Act (ESA) for the BR-0021 test borings. We have determined that the proposed activity may affect, but is not likely to adversely affect, ESA-listed species and critical habitat included in the table(s) below. Our supporting analysis is provided below. We request your written concurrence with our determinations.

Pursuant to our request for expedited informal consultation, we are providing, enclosing, or otherwise identifying the following information:

- A description of the action to be considered;
  - A description of the action area;
  - A description of any listed species or critical habitat that may be affected by the action;
- and
- An analysis of the potential routes of effect on any listed species or critical habitat.

**Proposed Action**

This proposed work is intended to facilitate the design and construction planning for the bridge replacement. The geotechnical borings are needed first to allow design choices to proceed. We expect in-water work to commence in October, 2022, when Atlantic sturgeon are likely to be present in the project area. However, all work will be completed well before what is suspected to be a second Atlantic sturgeon spawning season in the spring (March-May).

NCDOT's Geotechnical Unit needs to conduct borings so that the bridge foundations can be designed. Attached is the boring plan with bent/boring designations. The boring plan was generated (at 50:1) in Microstation and only shows the simple boring symbology and the line work for the proposed structure (new alignment to the east). Interior bents 2 through 7 (12 borings) would need to be drilled in the river, by using a barge (see attached boring plan).

Borings drilled in the river, from the barge, will begin with mud-rotary drill tooling. Based on a scoping visit, we anticipate little soil below the mudline. Crystalline rock is anticipated to be very shallow in the river. In many river borings, water is flowing on crystalline rock. When crystalline rock is encountered in the river, we will switch to wireline NQ rock coring equipment and core rock up to 30 ft depth, for foundation design purposes. The material excavated by this activity will be removed from the site. The drill cuttings from soils encountered at/below the mudline will be captured on the barge and carried offsite to be properly disposed of at an upland site. All rock core samples will be boxed and carried back to the office for further review and analysis. Considering that there is very little "soil" in the riverbed, and the river mostly runs on crystalline rock, there should be very little (not measurable) sediment disturbance (turbidity) generated during the drilling of each boring.

The noise associated with this activity includes the sound of the drill rig motor, and the sound produced by the Standard Penetration Test (SPT) hammer. That is a 140 lbs hammer falling 30 inches. The SPT is performed as we drill down to determine soil density. This data is used in foundation design. This hammer is somewhat loud, but not nearly as loud as a pile driving hammer. Peak underwater noise levels are not expected to exceed 160 dB at 1 meter from the boring site (<https://asa.scitation.org/doi/10.1121/1.4988578>). The SPT would not generate enough sediment disturbance to be measured.

Borings B10-B, B11-A, B11-B, B12-A, and B12-B will be drilled from a barge, in Westrock's cooling canal, using mud-rotary tooling and wireline NQ core tooling. The barge will be placed into the canal by crane/boom truck. These borings will be backfilled with grout immediately after drilling.

As can be seen in the drawing, a number of borings will be conducted on land. Borings for End Bent 1 and Bent 1 will be advanced using an ATV (rubber-tired) drill rig using hollow-stem augers. All borings on the south side of the bridge, not being drilled in the Roanoke River, are on Westrock papermill's property. Borings for Bent 9, B10-A, Bent 13, Bent 14, and End Bent 2 will also be drilled using the ATV drill rig with hollow-stem augers and wireline NQ core tooling. Land-based borings will be left open (but covered) for 24 hours and then groundwater levels will be measured. After groundwater measurement we will backfill the land-based borings and backfill with cuttings and a 2 ft bentonite cap. No listed species under NMFS jurisdiction will be exposed to effects of this activity and, thus, this aspect of the proposed action will not be considered further.

A few additional details:

- One boring per day is anticipated
- No borings are proposed in wetlands
- Borings are approximately 4 inches in diameter
- 20 or less borings are proposed in water or at top of bank
- Total temporary surface water impacts will be <0.0001 ac.
- T&E biological conclusions are all No Effect, excluding sturgeon species

### **Action Area**

For this proposed work, the action area is expected to be limited to the vicinity of the proposed drillings. The work zone is east of the existing bridge on NC 48 over the Roanoke River between Roanoke Rapids and Gaston. The bridge, located at latitude 36.481644, longitude -77.645304 is about 1.5 miles downstream from the Roanoke Rapids Dam and over 125 miles upstream from Albemarle Sound (see

attached Project Vicinity Map).

The area is in the fall zone of Roanoke River, which is characterized by a hard bottom substrate and flowing water. The depth of the water and velocity is often determined by water releases from the dam upstream, so are highly variable. Being so far from the coast, this is freshwater habitat.

**Potentially Affected NMFS ESA-Listed Species and Critical Habitat**

We have assessed the listed species that may be present in the action area and our determination of the project’s potential effects to them as shown in Table 1 below.

**Table 1. ESA-listed Species in the Action Area and Effect Determination(s)**

Species	ESA Listing Status	Listing Rule/Date	Most Recent Recovery Plan/Outline Date	Effect Determination (Species)
Fish				
Shortnose sturgeon	E	32 FR 4001/ March 11, 1967	December 1998	<u>NLAA</u>
Atlantic sturgeon (Carolina DPS)	E	77 FR 5914/ February 6, 2012	N/A	<u>NLAA</u>

Please note abbreviations used in Table 1: NLAA = may affect, not likely to adversely affect

We have assessed the critical habitats that overlap with the action area and our determination of the project’s potential effects to them as shown in Table 2 below.

**Table 2. Critical Habitat(s) in the Action Area and Effect Determination(s)**

Species	Critical Habitat in the Action Area	Critical Habitat Rule/Date	Effect Determination (Critical Habitat)
Fish			
Atlantic sturgeon (Carolina DPS)	16. Roanoke River	82 FR 39160/ August 17, 2017	<u>NLAA</u>

Please note abbreviations used in Table 2: NLAA = may affect, not likely to adversely affect

**Effects of the Action**

The Roanoke River is identified as a spawning river for Atlantic sturgeon based on the capture of juveniles, the collection of eggs, and the tracking location of adults. Designated Critical Habitat for Atlantic sturgeon is present within the project study area. The Roanoke River is listed as Critical Habitat to the Roanoke Rapids Dam, which is approximately 1.5 river miles upstream of the bridge site. Because of the dam, all Atlantic sturgeon are restricted to the lower 17 rkm of fall zone habitat, which extends from the Roanoke Rapids Dam to Weldon, North Carolina at rkm 204 (Atlantic sturgeon Critical Habitat designation, 2017).

We believe that the potential for sturgeon to be injured through direct physical contact with project-related vessels or equipment is discountable, as these species are highly mobile and are expected to move away from any in-water noise and disturbances.

Sturgeon may avoid the in-water work areas due to the presence of materials, machinery, and personnel during drilling activities. We believe any potential effects from avoidance of these areas would be

insignificant, as the project activities will impact only a very small portion of available habitat, and any sturgeon in the area will have access to alternate, similar, undisturbed habitat nearby (e.g., up and downstream of the site). The proposed work will not create any barriers to movement.

We believe that the noise generated by the drilling activity may affect, but is not likely to adversely affect the sturgeon. The noise generated by the SPT hammer is similar to that generated by a pile driving hammer, but the SPT hammer is much smaller (140 lbs hammer falling 30 inches), and not nearly as loud as a pile driving hammer. Based on a study published in *The Journal of the Acoustical Society of America* (<https://asa.scitation.org/doi/10.1121/1.4988578>), peak underwater noise levels generated by the SPT hammer are not expected to exceed 160 dB at a distance of 1 meter from the boring site.

We used the NMFS Multi-species Pile Driving Tool (dated August 2022) to calculate the radii of physical injury and behavioral effects on ESA-listed species that may be located in the action area, based on the NMFS-accepted pile driving sound measurement thresholds for species in the NMFS Southeast Region (<https://www.fisheries.noaa.gov/southeast/consultations/section-7-consultation-guidance>).

Based on the NMFS Multi-species Pile Driving Tool, the proposed boring activity will not cause peak injurious noise effects to ESA-listed sturgeon. The cumulative effects of completing one full boring (per day) could only cause injury to a sturgeon if the animal were to remain within less than one foot (0.7 ft) from the SPT hammer throughout the entire boring process. We believe such cumulative injurious noise effects are extremely unlikely to occur due to the mobility of these species. That is, we do not expect any individual sturgeon to remain within 1 ft of the boring site throughout the entire drilling process, and therefore any potential physical injury from the generated noise will be avoided. Movement away from the injurious sound radius is a behavioral response, which is discussed below.

The underwater noise generated by the proposed drilling activities could result in behavioral noise effects to sturgeon at a radius of up to 5.2 ft from the drilling site. Due to the mobility of these species, the very small area of behavioral effects, and the open-water environment, we expect the animals to move away from noise disturbances. Because there is similar suitable habitat nearby, we believe any behavioral effects will be insignificant.

Historically, shortnose sturgeon also used the Roanoke River. However, recent sampling has had little success documenting the species presence in this river basin so information on natural history and habitat use for the area of effect is minimal. Given the low likelihood that the shortnose sturgeon would be present in the project area during the drilling work, adverse effects on this species are extremely unlikely to occur. If by chance shortnose sturgeon are in the area during the drilling work, we believe any effects would be insignificant, for the same reasons stated for Atlantic sturgeon.

#### ROUTES OF EFFECT TO CRITICAL HABITAT

The project is located within the boundary of the Carolina DPS of Atlantic sturgeon. The physical or biological features essential for the conservation of the species (“essential features”) are present in the area of effect, including hard bottom substrate. We believe only the hard bottom substrate may be affected by the proposed action.

As discussed earlier twenty borings are proposed in water, of 4 inches in diameter, with one boring to be conducted per day. The effect to the substrate will be insignificant due to the small size of the area to be affected and the availability of suitable substrate upstream and downstream of the affected area. We expect the borings themselves will eventually be refilled naturally by the movement of gravel and other substrate materials.

The river in the area of effect is freshwater habitat, so potential effects on salinity are not an issue. The proposed work will not create barriers to movement for the fish or potential prey. Additionally, the proposed drillings will not significantly affect the water quality or chemistry in the project area. The extremely small area to be affected (<0.0001 ac), along with the temporary nature of the work supports these conclusions.

### **Conclusion**

The NCDOT has reviewed the proposed project for its effects to ESA-listed species and their critical habitat. Based on the analysis above, we have determined that the proposed geotechnical drillings for BR-0021 are not likely to adversely affect any listed species or critical habitat under NMFS's jurisdiction. We have used the best scientific and commercial data available to complete this analysis. We request your concurrence with this determination.

Sincerely,

DocuSigned by:

*Mack C. Rivenbark III*

AAAD1248B309416...

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

### **Literature Cited**

Endangered and Threatened Species; Designation of Critical Habitat for the Endangered New York Bight, Chesapeake Bay, Carolina and South Atlantic Distinct Population Segments of Atlantic Sturgeon and the Threatened Gulf of Maine Distinct Population Segment of Atlantic Sturgeon 2017

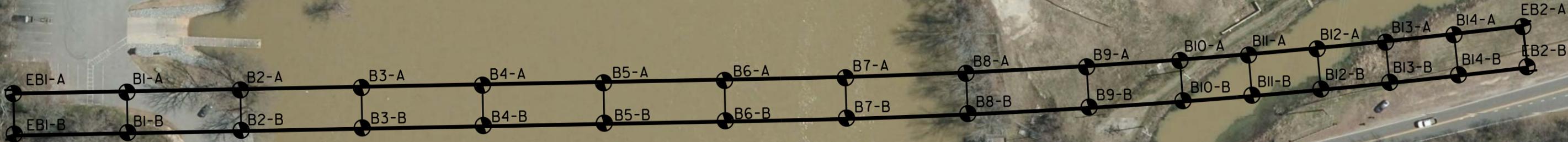
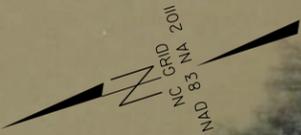
<https://www.federalregister.gov/documents/2017/08/17/2017-17207/endangered-and-threatened-species-designation-of-critical-habitat-for-the-endangered-new-york-bight>

<https://www.fisheries.noaa.gov/species/shortnose-sturgeon>

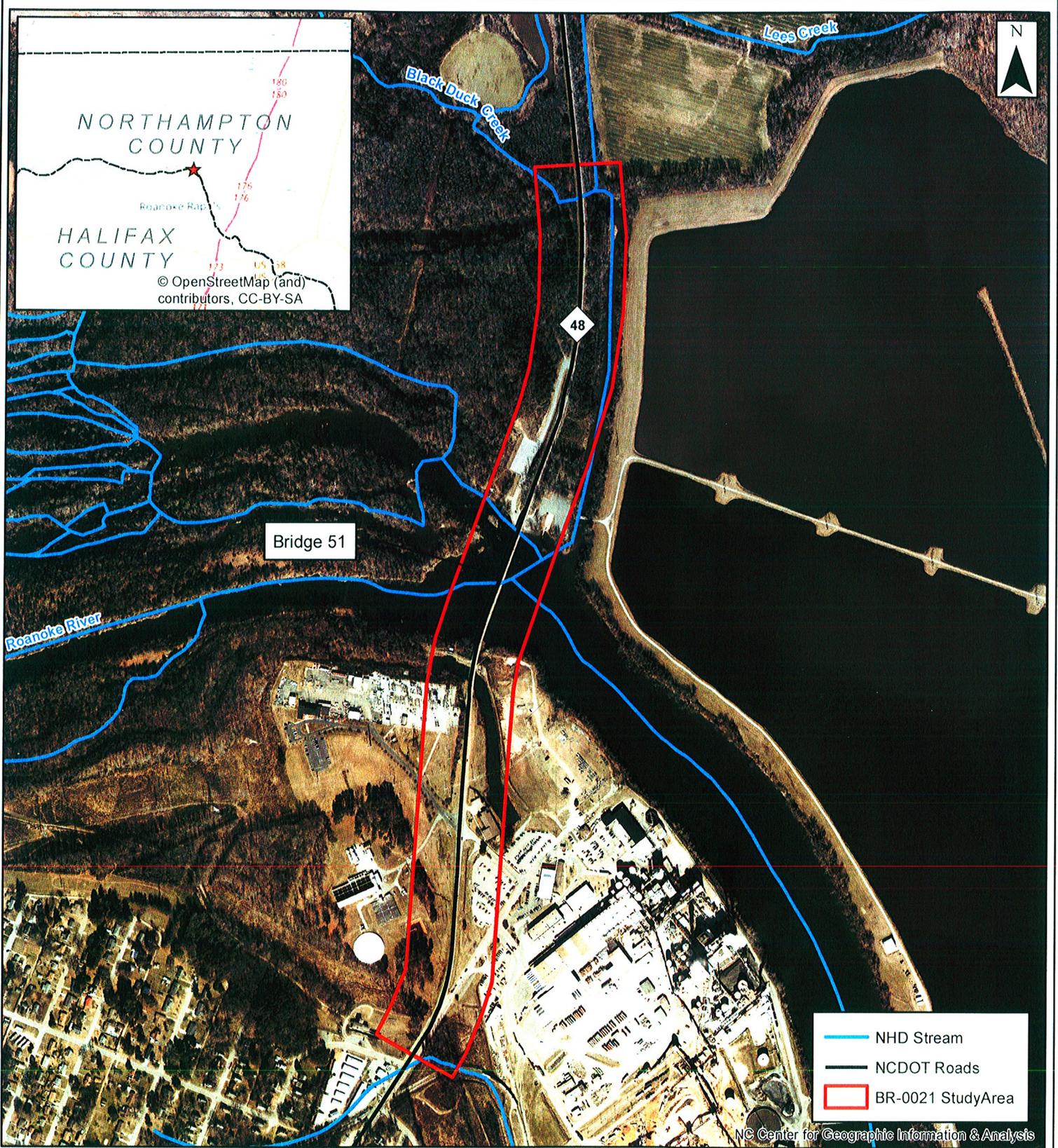
Biological assessment of shortnose sturgeon *Acipenser brevirostrum*, 2010

<https://repository.library.noaa.gov/view/noaa/17811>

BR-0021 - Bridge No. 51 on NC48 over Roanoke River



Scale = 100:1 when printed 11"x17"



Prepared For:

Replacement of Bridge No. 51  
 over the Roanoke River on NC 48

STIP BR-0021

Project Vicinity Map

Halifax and Northampton Counties, North Carolina

Date: January 2019

Scale: 0 250 500 Feet

Job No: 18-030

Drawn By: JSM  
 Checked By: NDH

Figure  
 1



UNITED STATES DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
NATIONAL MARINE FISHERIES SERVICE  
Southeast Regional Office  
263 13<sup>th</sup> Avenue South  
St. Petersburg, Florida 33701-5505  
<https://www.fisheries.noaa.gov/region/southeast>

08/24/22

F/SER31:MT  
SERO-2022-01225

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

Ref.: Geotechnical Borings for the Replacement of Bridge No. 51 on NC 48 Over Roanoke River, Halifax County, North Carolina, BR-0021 - EXPEDITED TRACK

Dear Philip Harris:

This letter responds to your August 17, 2022, request pursuant to Section 7 of the Endangered Species Act (ESA) for consultation with the National Marine Fisheries Service (NMFS) on the subject action.

We reviewed the action agency's consultation request document and related materials. Based on our knowledge, expertise, and the action agency's materials, we concur with the action agency's conclusions that the proposed action is not likely to adversely affect the NMFS ESA-listed species and/or designated critical habitat. This concludes your consultation responsibilities under the ESA for species and/or designated critical habitat under NMFS's purview. Reinitiation of consultation is required and shall be requested by the action agency or by NMFS where discretionary Federal involvement or control over the action has been retained or is authorized by law and: (a) take occurs; (b) new information reveals effects of the action that may affect listed species or critical habitat in a manner or to an extent not previously considered in this consultation; (c) the action is subsequently modified in a manner that causes an effect to the listed species or critical habitat not previously considered in this consultation; or (d) if a new species is listed or critical habitat designated that may be affected by the action.

We look forward to further cooperation with you on other projects to ensure the conservation of our threatened and endangered marine species and designated critical habitat. If you have any questions on this consultation, please contact Michael Tucker, Consultation Biologist, at (727) 209-5981 or by email at [Michael.Tucker@noaa.gov](mailto:Michael.Tucker@noaa.gov).

Sincerely,

WUNDERLICH.MARY.JANE.14003454  
88

Digitally signed by  
WUNDERLICH.MARY.JANE.140  
0345488  
Date: 2022.08.24 15:31:59 -04'00'

for David Bernhart  
Assistant Regional Administrator  
for Protected Resources

File: 1514-22.L.1





## NO ARCHAEOLOGICAL SURVEY REQUIRED FORM

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



### PROJECT INFORMATION

Project No: **BR-0021** County: **Halifax & Northampton**  
 WBS No: **67021.1.1** Document: **MCC**  
 F.A. No: **na** Funding:  State  Federal

Federal Permit Required?  Yes  No Permit Type: **na**

**Project Description:** The North Carolina Department of Transportation (NCDOT) intends to replace Bridge No. 51 on NC 48 over the Roanoke River between Gaston and Roanoke Rapids. No preliminary designs were available at the time of the request for cultural resources review, but a study area that encompasses approximately 60.6 acres (slightly over 24.52 hectares) was submitted with the request. For the purpose of the initial archaeological review, this study area will be considered to be the area of potential effects (APE).

### SUMMARY OF CULTURAL RESOURCES REVIEW

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

The initial review of the site maps and files archived at the North Carolina Office of State Archaeology (OSA) was conducted on February 19, 2018. No previously recorded archaeological resources are located within the proposed APE, but two archaeological sites have been recorded on the floodplain north of the Roanoke River overflow, adjacent the current APE. Sites 31NP112 and 31NP113 were identified by NCDOT archaeologists as part of the replacement of Bridge No. 26, at the northern end of the current APE (Lautzenheiser 1986). According to the report, 20 acres were surveyed with a combination of subsurface testing and visual inspection of plowed fields. Both of these archaeological sites appear to be located on slightly elevated portions of the floodplain north of the Roanoke River Overflow. Archaeological investigations undertaken at the Gaston Community Park (Dwight Hall Recreation Park) identified an eroded prehistoric and historic archaeological site above Lees Creek (Phelps and Cande 1976). To the west of the current APE, a number of archaeological sites have been identified north of the hydroelectric dam in the uplands overlooking the impounded area. A handful of these sites were investigated during the survey work for a proposed access road for the Lake Gaston Recreational Areas – Roanoke Rapids Northside Dam Project (Leithhoff and Brady 2015). Most of the sites investigated (31NP106/106\*\*, 31NP380\*\*, 31NP381\*\*, 31NP382\*\*, and 31NP383\*\*) represented small scatters of archaeological materials that were not considered to be culturally significant. Site 31NP107, a more substantial deposit was relocated, but not assessed. One large archaeological resource that was recorded relatively close to the Roanoke River is site 31HX135, a large prehistoric site with Native American ceramic artifacts and ground stone tools that was reported on the property of the former Champion Paper Plant International Corporation.

An examination of the data presented on the North Carolina State Historic Preservation Office HPOWEB GIS Service (<http://gis.ncdcr.gov/hpoweb/>) reveals a large number of recorded historic property locations within .5-mile of the proposed project. On the Halifax County side of the river, these resources include: the structures associated with the National Register-listed Roanoke Rapids Historic District (HX1510); commercial buildings (HX1072); houses (HX0966, HX0987, HX0997); the former location of Turtle

Back House #2 (HX0419); the Roanoke Navigation and Water Power Plant (HX1079); the National Register-listed Roanoke Canal (HX0009); the former Roanoke Rapids Paper Company (HX1082); the former location of the Roanoke Mills Company Plant #1 (HX1080); the former location of the United Industrial Company (HX1081); the Virginia Electric Power Company building (HX1559); and the bridge over the Roanoke River itself. On the Northampton side there is only the Gaston Baptist Church (NP1130) within that radius.

An examination of soils in Halifax and Northampton Counties presented on the National Resources Conservation Service Web Soil Survey (<http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>) indicates that the following soil types fall within the delineated APE: Congaree silt loam, 0 to 4 percent slopes, occasionally flooded (Co); Emporia-Urban land complex, 0 to 6 percent slopes (ErB); and Udorthents, loamy (Ud).

No further archaeological investigations are required for the project within the area established as the current APE. Should the project change to include a larger footprint than covered by the current APE, further consultation will be necessary. In the unlikely event that archaeological remains are encountered during the bridge replacement project, work should cease in that area and the NCDOT Archaeology Group should be notified immediately.

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

The southern portions of the proposed project area are almost entirely located within a landscape that has been drastically altered for modern industrial and transportation purposes. This interpretation is strongly supported by aerial imagery of the area as well as the character of soils mapped within this portion of the APE. To the north of Bridge No. 51 much of the APE is characterized as occasionally flooded landforms. Much of this area falls within the 20 acres surveyed by NCDOT archaeologists in 1986 for the replacement of Bridge No. 26 over the Roanoke River Overflow (Falling Creek Run). Additional alterations can be seen on the Northampton Side of the River where the highway easement, utilities, and a boat ramp access road and parking lot constitute significant changes to the landscape. The portions of the APE that fall outside areas that were previously surveyed or have been obviously altered, are considered to be relatively minor with a small chance for significant archaeological resources.

Reference Cited:

Lautzenheiser, L.

1986 *Archaeological Survey of Bridge #26 on NC 48 over Roanoke River Overflow (Falling Run Creek), Northampton County, B-1306.* Ms. on file, Environmental Analysis Unit, North Carolina Department of Transportation, Raleigh.

Leithoff, A. J. and E. Brady

2015 *Archaeological Identification Survey of Approximately 2.91 hectares (7.18 Acres), Roanoke Rapids North Side Dam Project, Northampton County, North Carolina.* Ms. on file, Office of State Archaeology, North Carolina Department of Environmental and Cultural Resources, Raleigh.

Phelps, D. S. and R. F. Cande

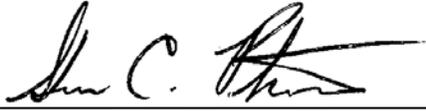
1976 *Archaeological Survey of the Gaston Community Park.* Ms. on file, Office of State Archaeology, North Carolina Department of Environmental and Cultural Resources, Raleigh.

**SUPPORT DOCUMENTATION**

See attached:  Map(s)  Previous Survey Info  Photos  Correspondence  
 Other: soil map

**FINDING BY NCDOT ARCHAEOLOGIST**

NO ARCHAEOLOGY SURVEY REQUIRED



NCDOT ARCHAEOLOGIST

**February 26, 2018**

Date

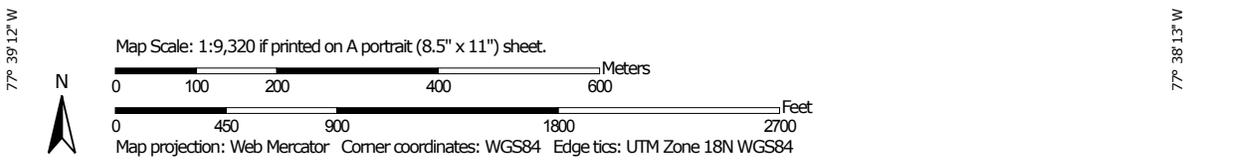


Aerial photograph of the revised proposed APE (orange lines) for the proposed replacement of Bridge No. 51 on NC 48 over the Roanoke River.

Soil Map—Halifax County, North Carolina, and Northampton County, North Carolina  
(Bridge No. 51 on NC 48 over the Roanoke River)



Soil Map may not be valid at this scale.



## MAP LEGEND

### Area of Interest (AOI)

 Area of Interest (AOI)

### Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

### Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

### Water Features



Streams and Canals

### Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

### Background



Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Halifax County, North Carolina

Survey Area Data: Version 20, Sep 26, 2017

Soil Survey Area: Northampton County, North Carolina

Survey Area Data: Version 16, Oct 2, 2017

Your area of interest (AOI) includes more than one soil survey area. These survey areas may have been mapped at different scales, with a different land use in mind, at different times, or at different levels of detail. This may result in map unit symbols, soil properties, and interpretations that do not completely agree across soil survey area boundaries.

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 11, 2015—Feb 25, 2017

## MAP LEGEND

## MAP INFORMATION

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
ErB	Emporia-Urban land complex, 0 to 6 percent slopes	25.3	41.7%
Ud	Udorthents, loamy	3.2	5.3%
<b>Subtotals for Soil Survey Area</b>		<b>28.5</b>	<b>47.0%</b>
<b>Totals for Area of Interest</b>		<b>60.6</b>	<b>100.0%</b>

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Co	Congaree silt loam, 0 to 4 percent slopes, occasionally flooded	18.3	30.2%
Ud	Udorthents, loamy	0.4	0.6%
W	Water	13.4	22.2%
<b>Subtotals for Soil Survey Area</b>		<b>32.1</b>	<b>53.0%</b>
<b>Totals for Area of Interest</b>		<b>60.6</b>	<b>100.0%</b>



## HISTORIC ARCHITECTURE AND LANDSCAPES \*\*EFFECTS REQUIRED FORM\*\*

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

### PROJECT INFORMATION

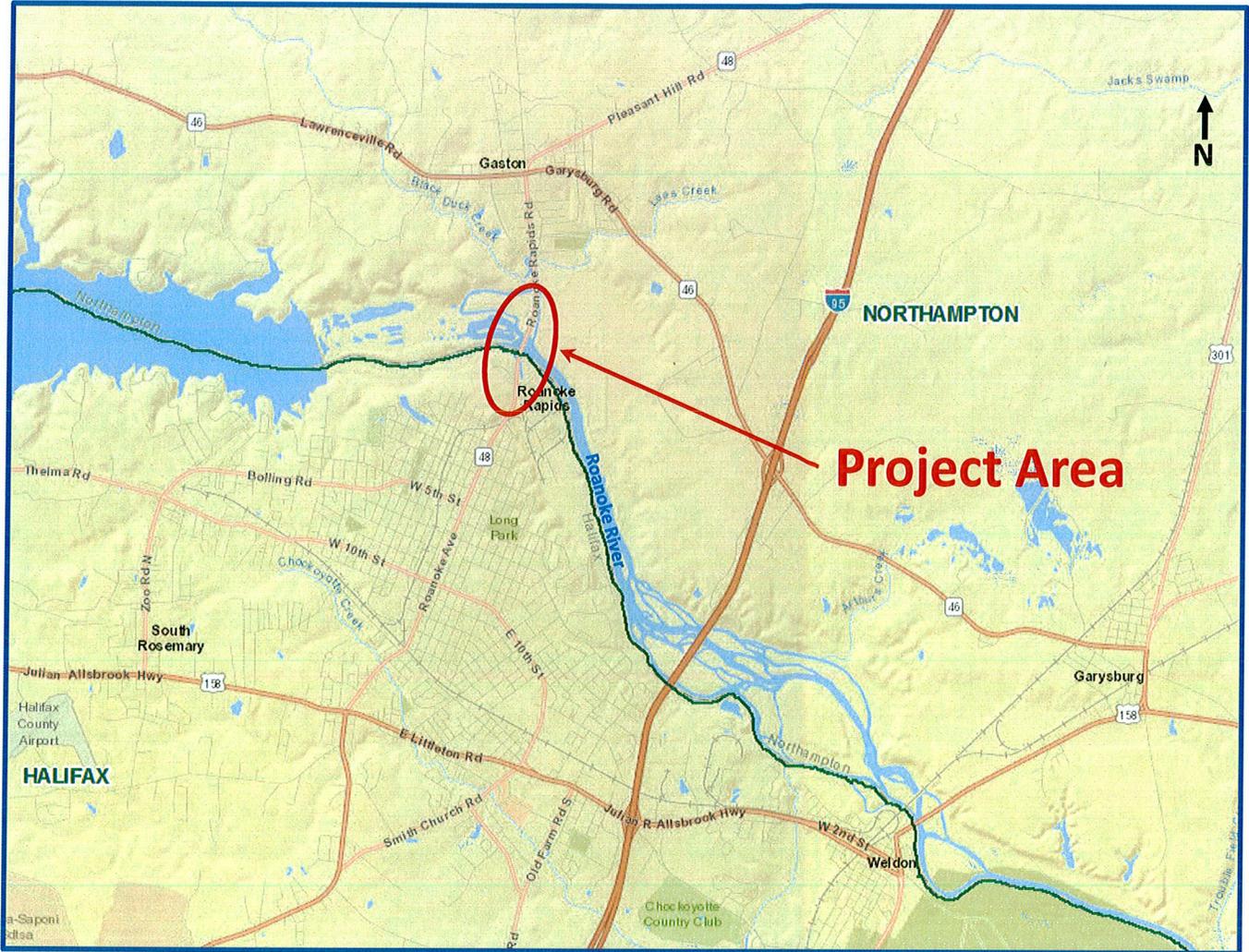
<b>Project No:</b>	BR-0021	<b>County:</b>	Halifax
<b>WBS No.:</b>	67021.1.1	<b>Document Type:</b>	
<b>Fed. Aid No:</b>		<b>Funding:</b>	X State    Federal
<b>Federal Permit(s):</b>	X Yes <input type="checkbox"/> No	<b>Permit Type(s):</b>	USACE
<b>Project Description:</b> Replace Bridge No. 51 on NC 48 over the Roanoke River (no off-site detour specified in review request).			

### SUMMARY OF HISTORIC ARCHITECTURE AND LANDSCAPES REVIEW

**Description of review activities, results, and conclusions:** HPOWeb reviewed on 18 January 2018 and yielded one NR, one DE, three SS, and no SL or LD properties in the Area of Potential Effects (APE). Halifax and Northampton Counties current GIS mapping, aerial photography, and tax information indicated a partly developed APE with industrial and transportation resources dating from the 1810s to the 1990s (viewed 18 January 2018). The APE intersects the northern end of the National Register (NR)-listed Roanoke Canal Historic District (HX0009). The previously surveyed Roanoke Navigation and Water Power Company Power Plant (HX1079), the Roanoke Rapids Paper Company (HX1082), and the Roanoke Rapids (Virginia Electric) Power Company Power Plant Complex (HX1559) are also located partly within the APE. Constructed in 1957, Bridge No. 51 is included in the NCDOT Historic Bridge Inventory and has been determined eligible for NR listing. Two North Carolina highway historical markers stand in the APE identifying the "Roanoke Canal" (E-34) and the "First Kraft Pulp in United States" (E-81). The APE equates with the study area provided in the review request (see attached). The comprehensive county architectural survey (1986-1988) and related publication (Henry Taves, et al., *The Historic Architecture of Halifax County, North Carolina* (Halifax, NC: Halifax County Historical Association, 2010)), as well as later studies record no resources in the APE apart from those mentioned above. County GIS/tax materials and other visuals, like Google Maps "Streetview," clearly illustrate the relative placement of the National Register-listed and other resources and the proposed work, which indicated the need for field investigation and, specifically, NR eligibility assessment of the three, previously recorded, but unevaluated properties. The project is reviewed under both GS 121-12(a) and Section 106.

NCDOT engaged AECOM Technical Services of North Carolina, Inc. to prepare eligibility evaluations for the three properties noted above and also revisit the eligibility of the NR-listed district; findings and eligibility recommendations are presented in a May 2019 report on file at NCDOT—Historic Architecture and NCHPO. The study finds that the Roanoke Navigation and Water Power Company Power Plant (HX1079) and the Roanoke Rapids Power Company Power Plant Complex (HX1559) meet NR eligibility requirements, and the Roanoke Rapids Paper Company (HX1082) does not. The Roanoke Canal Historic District (HX0009) continues to





BR-0021

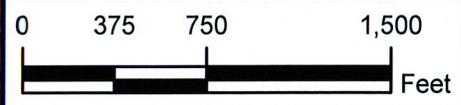
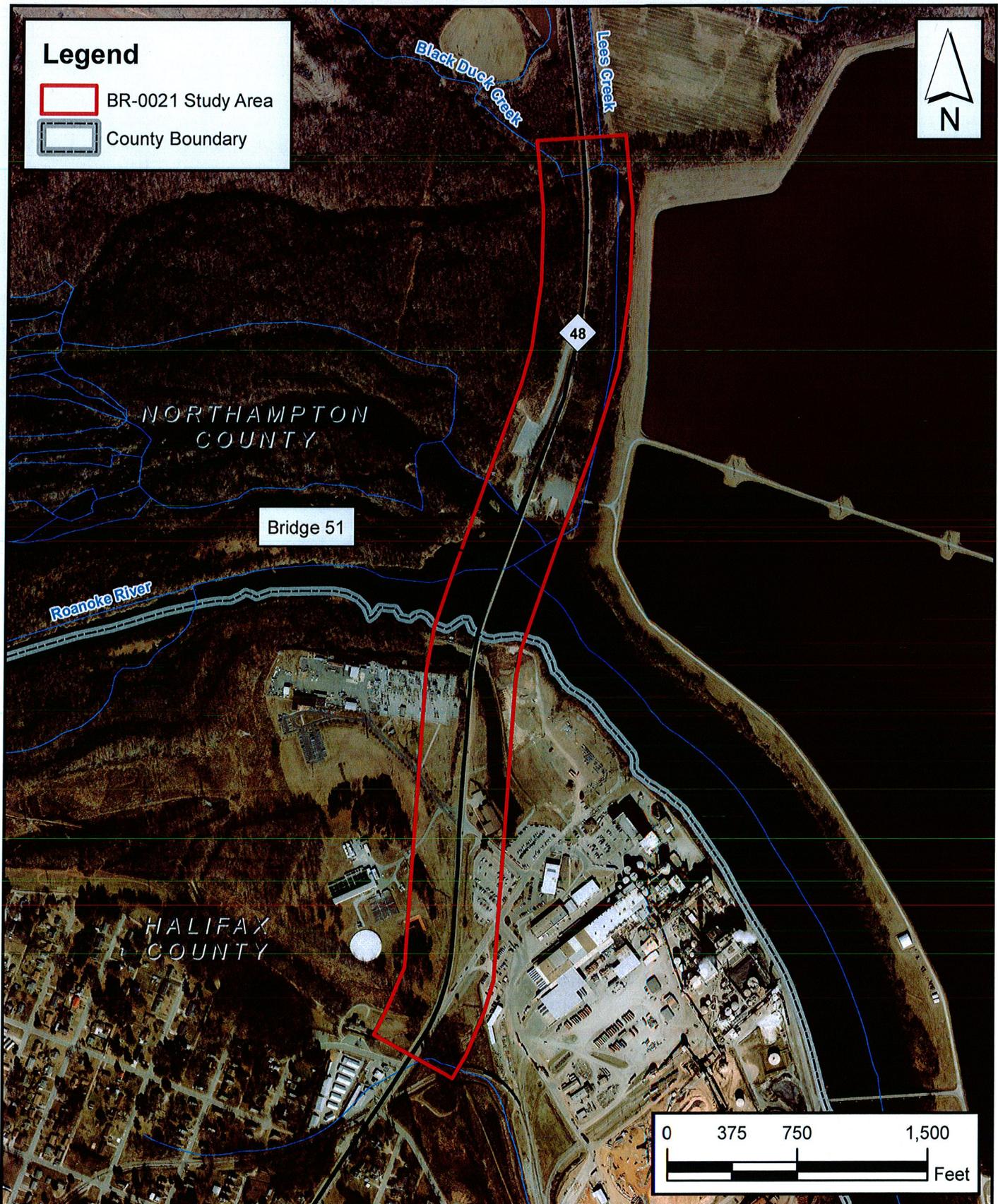
Bridge No. 51 Replacement  
WBS No. 67021.1.1

Halifax County

Base map: HPOWeb, nts

**Legend**

-  BR-0021 Study Area
-  County Boundary



NORTH CAROLINA  
DEPARTMENT  
OF TRANSPORTATION  
DIVISION OF HIGHWAYS

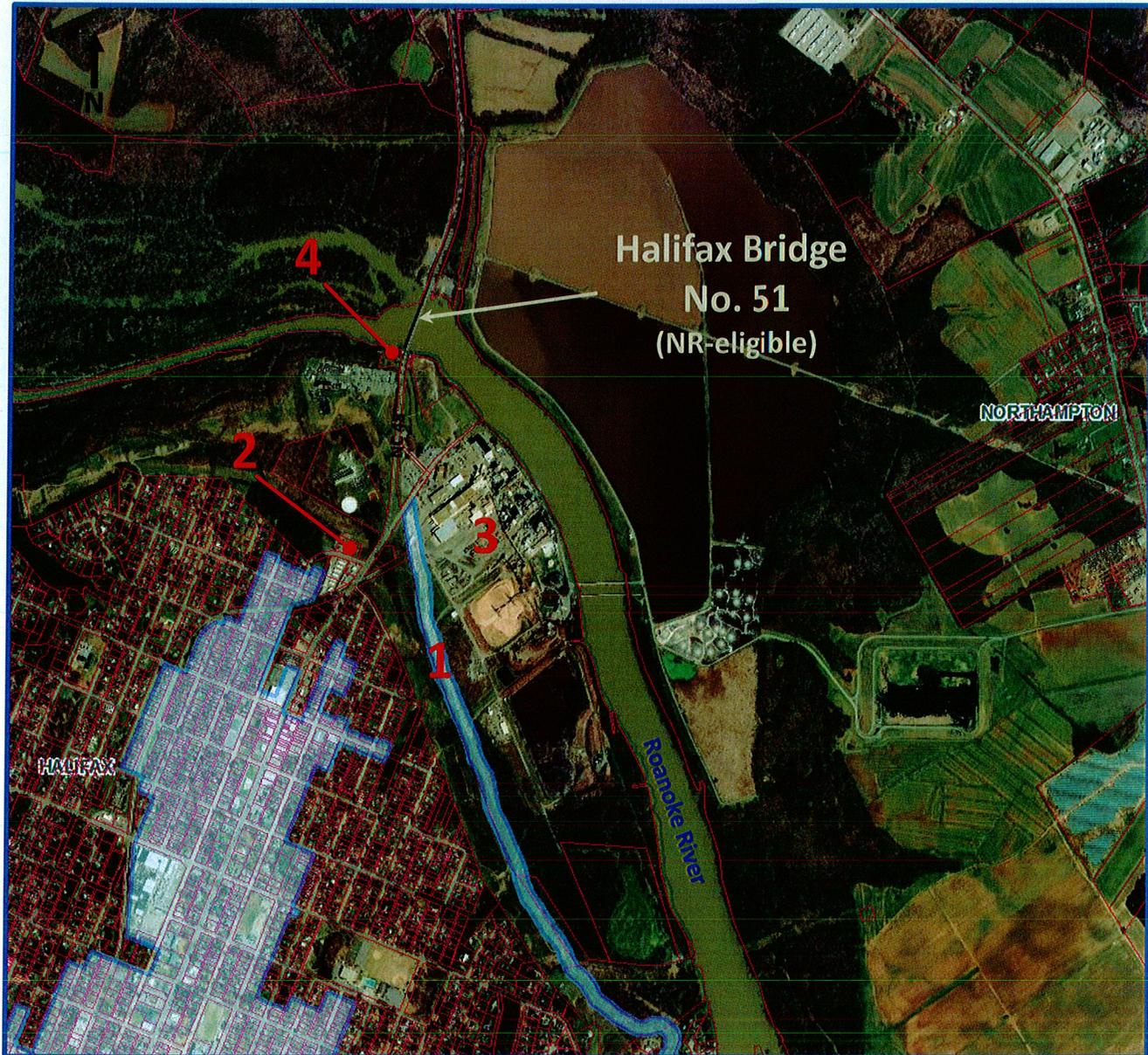
**STUDY AREA MAP  
REPLACE BRIDGE 51  
ON NC 48 OVER  
ROANOKE RIVER**

HALIFAX & NORTHAMPTON COUNTIES  
NORTH CAROLINA

County:	HALIFAX & NORTHAMPTON
Div: 4	STIP# BR-0021
WBS:	67021.1.1
Date:	JULY 2018

**Figure  
2**

Tracking No. 17-12-0060



BR-0021 Bridge No. 51 Replacement Halifax and Northampton Counties  
**Evaluated Resources**

1. **Roanoke Canal Historic District (HX0009)**. 15 Jackson Street Extension.  
 Parcel No.: multiple. NR-listed (see attached boundary correction).
2. **Roanoke Navigation and Water Power Plant Company Power Plant (HX1079)**. 15 Jackson Street Extension. Parcel No. 0909341. NR-eligible and a contributing resource in the Roanoke Canal Historic District.
3. Roanoke Rapids Paper Company (HX1082). Roanoke Avenue.  
 Parcel No.: 0900081. Not NR-eligible.
4. **Roanoke Rapids Power Company Power Plant Complex (HX1559)**. Highway 48.  
 Parcel No.: 0900082. NR-eligible.



BR-0021 Bridge No. 51 Replacement Halifax and Northampton Counties  
**Boundaries of National Register-eligible and -listed Resources**  
Base map: HPOWeb, nts



North Carolina Department of Natural and Cultural Resources  
State Historic Preservation Office

Ramona M. Bartos, Administrator

Governor Roy Cooper  
Secretary Susi H. Hamilton

Office of Archives and History  
Deputy Secretary Kevin Cherry

September 5, 2019

MEMORANDUM

TO: Vanessa Patrick  
Human Environment Unit  
NC Department of Transportation

FROM: Renee Gledhill-Earley *Renee Gledhill-Earley*  
Environmental Review Coordinator

SUBJECT: Historic Structures Survey Report, BR-0021, Replace Bridge 51 on NC 48 over Roanoke River,  
PA 17-12-0060, Halifax County, ER 19-2432

Thank you for your July 31, 2019, memorandum transmitting the above-referenced report. We have reviewed the report and concur that the following properties are eligible for listing in the National Register of Historic Places.

- Roanoke Navigation and Water-Power Company Plant (HX1079) under Criteria A and C
- Roanoke Rapids Power Company Power Plant Complex (HX1559) under Criteria A, C and D

We concur that the Roanoke Canal Historic District (HX0009), which is listed in the National Register, remains eligible under C for Commerce, Engineering and Transportation.

We also agree that the Roanoke Rapids Paper Company (HX1082) is not eligible for listing for the reasons outlined in the report.

The above comments are made pursuant to Section 106 of the National Historic Preservation Act and the Advisory Council on Historic Preservation's Regulations for Compliance with Section 106 codified at 36 CFR Part 800.

Thank you for your cooperation and consideration. If you have questions concerning the above comment, contact Renee Gledhill-Earley, environmental review coordinator, at 919-814-6579 or [environmental.review@ncdcr.gov](mailto:environmental.review@ncdcr.gov). In all future communication concerning this project, please cite the above referenced tracking number.

cc: Mary Pope Furr, NCDOT, [mfurr@ncdot.gov](mailto:mfurr@ncdot.gov)



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

ROY COOPER  
GOVERNOR

JAMES H. TROGDON, III  
SECRETARY

**Memorandum**

To: Renee Gledhill-Earley  
Environmental Review Coordinator  
North Carolina State Historic Preservation Office

From: Vanessa E. Patrick  
Architectural Historian  
NCDOT - Historic Architecture

Date: September 17, 2019

Subject: *Historic Structures Survey Report, Replace Bridge No. 51 on NC 48 over  
Roanoke River, Halifax County. TIP No. BR-0021. PA No. 17-12-0060.  
ER 19-2432.*

Thank you for your recent comments on the above report. We are pleased that you concur with our recommendation that the Roanoke Navigation and Water Power Company Power Plant (HX1079) and the Roanoke Rapids Power Company Power Plant Complex (HX1559) are eligible for listing in the National Register of Historic Places. We also agree that the Roanoke Rapids Paper Company (HX1082) is not eligible and the Roanoke Canal Historic District (HX0009) continues to warrant its listing in the National Register. Andy Edmonds has corrected the boundary of the district in HPOWeb to more accurately reflect the original nomination, specifically the inclusion of the Roanoke Navigation and Water Power Company Power Plant (HX1079) as a contributing resource.

The eligible and listed properties noted above, as well as the previously determined-eligible Bridge No. 51, will be the subjects of discussion at an upcoming effects consultation when work on the project resumes and its design is sufficiently advanced.

As always, your help is greatly appreciated. Should questions arise, please contact me at [vepatrick@ncdot.gov](mailto:vepatrick@ncdot.gov) or 919-707-6082.

V.E.P.

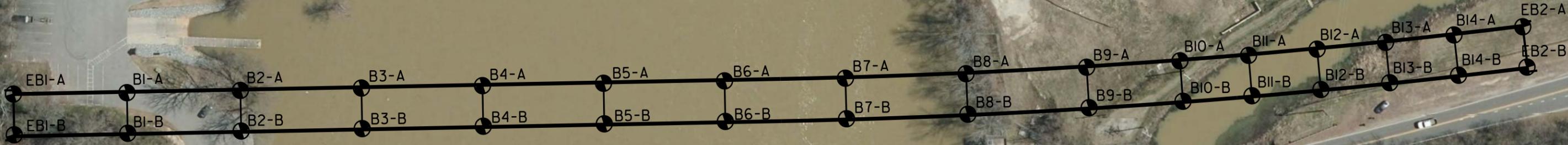
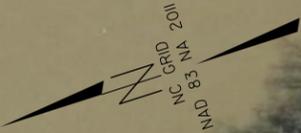
Mailing Address:  
NC DEPARTMENT OF TRANSPORTATION  
HUMAN ENVIRONMENT SECTION  
MSC 1598  
RALEIGH, NC 27699-1598

Telephone: (919)-707-6000  
Fax: (919)-212-5785  
Customer Service: 1-877-368-4968

Website: [www.ncdot.gov](http://www.ncdot.gov)

Location:  
1020 BIRCH RIDGE DRIVE  
RALEIGH, NC 27610

BR-0021 - Bridge No. 51 on NC48 over Roanoke River



NC 48/GASTON RD 36' BST

NC 48/GASTON RD 36' BST

Scale = 100:1 when printed 11"x17"