



**South Carolina Department of Transportation**  
On Behalf of the Federal Highway Administration - South Carolina Division Office



PROCESSING FORM FOR PROGRAMMATIC CATEGORICAL EXCLUSIONS  
NON MAJOR FEDERAL ACTIONS

State File #	DR-4241	Fed Project #	ER# SC16-1	Project ID	P029350	Route	S-101	County	Fairfield
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**Programmatic Type: CE-B**

**Project Name/Description**

S-101 (River Road) over Lake Wateree experienced a bridge collapse during the 2015 flood event. The existing bridge (pre-flood) was 27 feet by 45 feet. The replacement bridge will be constructed with the following commitments:

The pre-existing bridge will be replaced with a bridge on existing location. The bridge will be the same length or longer than the pre-existing bridge. The bridge will be the same height or higher than the pre-existing bridge. The Contractor will minimize impacts to wetland areas located in the northeastern and southeastern quadrants. USACE 404 Permit will be the responsibility of the SCDOT Environmental Services Office. The CONTRACTOR is responsible for providing all information required to obtain the Duke Energy Conveyance Permit. The CONTRACTOR will coordinate with the SCDOT Environmental Services Office while preparing this application. All correspondence and submittals to State or Federal Agencies will be routed through SCDOT Environmental Services Office.

**Categorical Exclusion Type B (Conditional Programmatic)**

Projects of the type listed below would not automatically fall under the same programmatic clearance as the CE Type A. The regulations in 23 CFR Part 771.117(d) list additional types of projects which can meet the CE criteria only after FHWA approval. Several of these projects have been approved to be processed programmatically by FHWA-SC if certain conditions are met. These types are listed below.

Check appropriate project type:

- Safety projects including but not limited to: placement of traffic barrier; energy attenuators; grading of slopes or gore areas to eliminate the need for guardrail, improve the clear zone, improve curves, or improve sight distance/removal of fixed objects such as boulders or trees; lighting; glare screens; delineators; and safety modification of drainage structures.
- Pavement resurfacing, restoration, rehabilitation, and reconstruction projects including related shoulder and ditch work.
- Traffic operation type projects including but not limited to: freeway surveillance and control systems; intersection channelization; turn lanes, acceleration or deceleration lanes; construction, modification or elimination of curbs, raised dividers or sidewalks; and widening less than a single lane width.
- Bridge and culvert rehabilitation work and bridge replacement at the same location.

CE-B Processing Form Continued:

To be processed as a Categorical Exclusion Type B (CE-B) the following conditions must be met in addition to the General Criteria (as outlined in the CE Programmatic Agreement (PA) between FHWA-SC and SCDOT). Place a "X" in the appropriate box below. If the answer is "Yes" to any of the below criteria, a Documented Categorical Exclusion (CE-C) must be prepared and forwarded to FHWA for approval.

1.	The acquisition of more than minor amounts of temporary or permanent strips of right-of-way and the acquisition will not require any residential or business relocations.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
2.	Use of Section 4(f) or 6(f) properties.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
3.	An adverse effect determination under Section 106 of the National Historic Preservation Act.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
4.	Individual U.S. Coast Guard Permits.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
5.	Individual Corps of Engineer Permits, or an impact greater than three (3) acres of wetlands.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
a.	Wetland impacts (acres): <input type="text"/>		
6.	Impacts to planned growth or land use, or significant impacts on travel patterns.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
7.	Work encroaching in a regulatory floodway, adversely affecting the base floodplain, or potentially adversely affecting a National Wild and Scenic River.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
8.	Changes in access control.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
9.	Any known or potential major hazardous waste sites within the right-of-way.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

The above described project has been reviewed based on the information contained in the engineer's Project Planning Report (PPR), and it has been determined that the project meets the criteria set forth in the Programmatic Categorical Exclusion Agreement signed by FHWA and SCDOT. It is understood that any additions/deletions to the project may void environmentally processing the project as presently classified; consequently, any engineering changes must be brought to the attention of SCDOT Environmental Services immediately. The project's CE classification should be shown in the remarks section on the Letter of Request for Authorization Form (PS Form 39) for right-of-way and/or construction for concurrence by FHWA. A copy of this form is included in the project file and one (1) copy has been provided to FHWA.

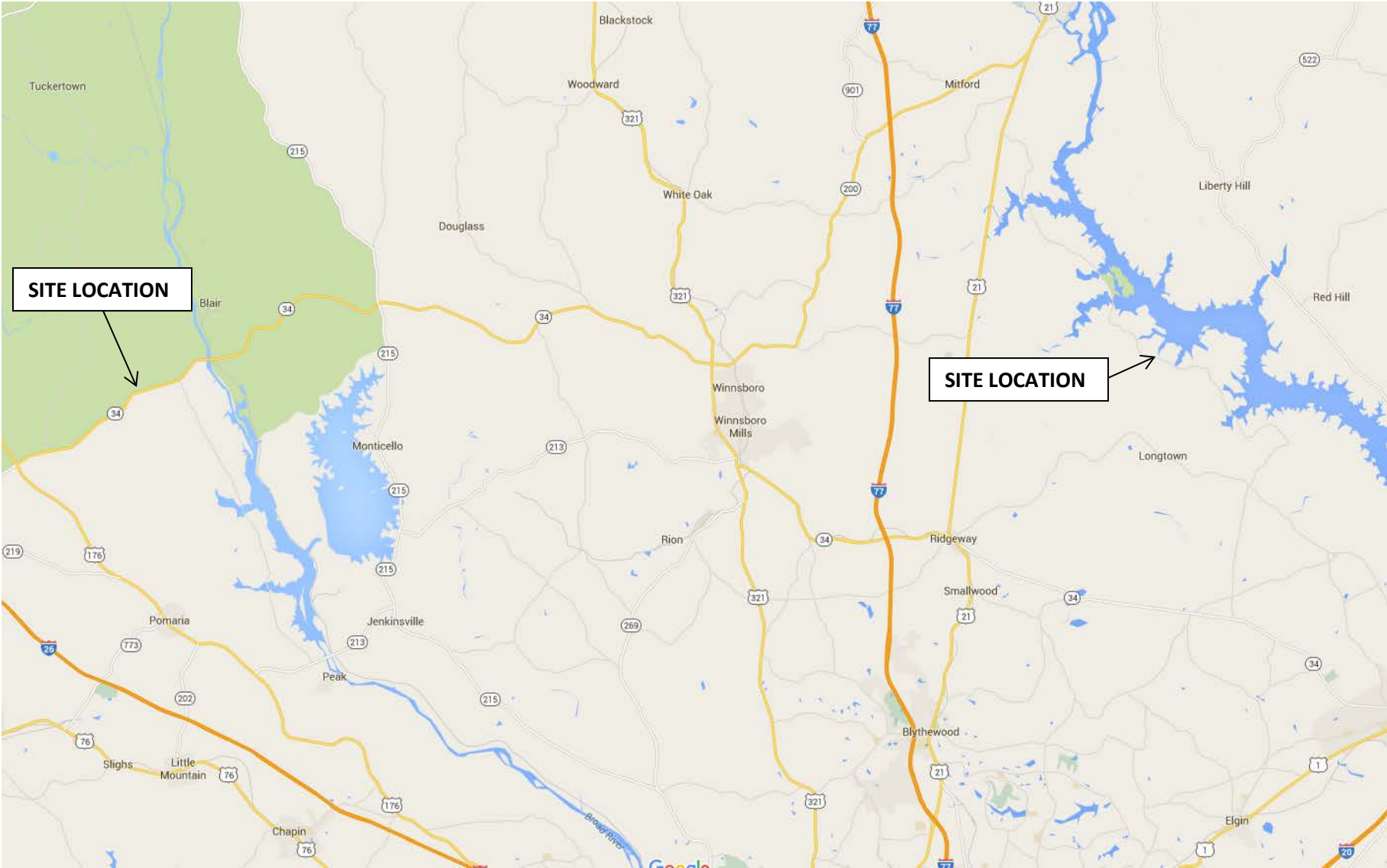
Prepared By:  *Heather M. Robbins* Date

Primavera:  Yes  No

**S-101 (River Rd) Martin Bridge, Fairfield County (34.3949, -80.8410)**



**Emergency Bridge Package 3 (Newberry & Fairfield Counties)**





# Cultural Resources Project Screening Form

File Number:  PIN:  Route:  County:

Project Name:

Type 1: Resurfacing, installation of fencing, signs, pavement markings, traffic signals, passenger shelters, railroad warning devices, construction of bicycle/ped lanes, installation of rumble strips, landscaping)

Project Type

Type 2: Off-system bridge replacement, intersection improvements that involve turn lanes and/or realignment of roads no greater than 300' in length)

Type 3: Projects that do not fall into Type 1 and Type 2 categories (e.g. road widening)

## Comments

GIS review indicates that no previously recorded cultural resources are present in close proximity to the SC-101 bridge located between Westshore Dr. and Kingfisher Dr., in Fairfield County. If the bridge is replaced on existing alignment with no new right of way acquisition no additional cultural resources investigations will be necessary for this project. If the bridge is replaced on new alignment or if it is necessary to acquire new right of way to replace the bridge in its current location additional cultural resources investigations may be required.

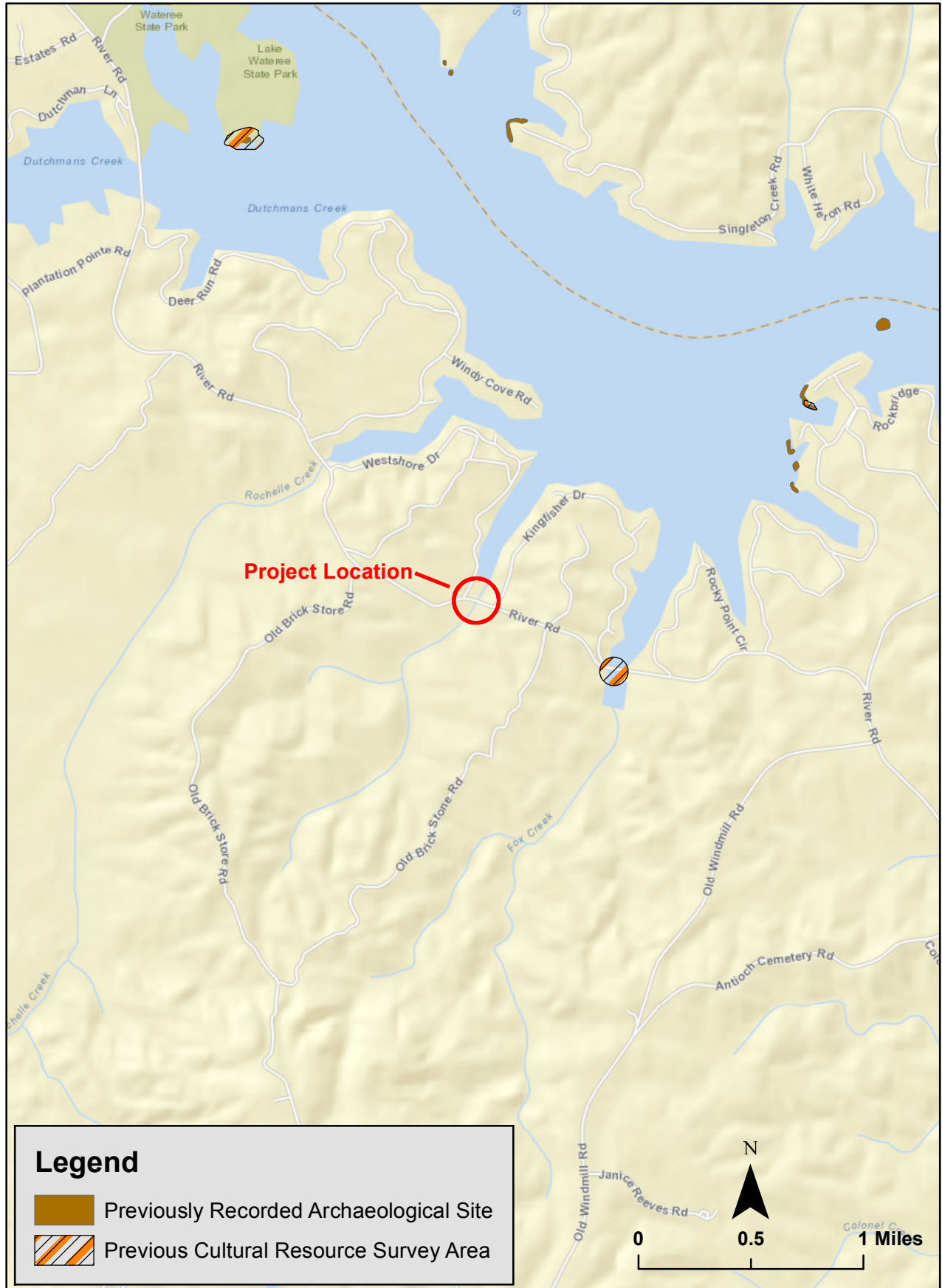
Effect Determination:

\*SHPO consultation is required for all Type 3 projects and any project with a No Adverse or Adverse Effect Determination.

This screening form was developed to satisfy documentation requirements for Type I and Type II projects under a Programmatic Agreement between the Federal Highway Administration, the South Carolina State Historic Preservation Office, and the South Carolina Department of Transportation. For Type I and Type II projects that have no effect on historic properties, the completion of this screening form with supporting documentation (e.g. ArchSite Map) provides evidence of FHWA and SCDOT's compliance with Section 106 of the National Historic Preservation Act.

Prepared by:

Review Date:



## **Robbins, Heather M.**

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**From:** Frierson, Ed W  
**Sent:** Tuesday, October 27, 2015 10:16 AM  
**To:** Robbins, Heather M.  
**Subject:** RE: T&E and Cultural Resource Reviews

Heather,

S-101 in Fairfield – The only listed species seen in the area is a Bald Eagle nest over 5 miles away so no problem there. It appears that there is potential wood stork habitat but if we are just replacing on same location no impact would be expected.

SC 34 in Newberry - The only listed species seen in the area is a bald eagle nest over 4 miles away so no problem there. No habitat for any other species except the CH is there. I notice that the north side of the bridge and roadway is all Sumter National Forest property, so you may want to coordinate with them in some way. Do you want me to write up a report or is this email all you need?

*Edward W. Frierson*  
*SCDOT NEPA Coordinator/Biologist*  
*803-737-1861*

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**From:** Robbins, Heather M.  
**Sent:** Monday, October 26, 2015 2:43 PM  
**To:** Frierson, Ed W  
**Subject:** RE: T&E and Cultural Resource Reviews

Thanks for the heads-up on the CH. We are already looking at this project for mussels. What did you find from the GIS review for the other T&E species?

Heather M. Robbins, AICP SCDOT NEPA Division Manager  
W 803.737.1399 M 803.422.8771

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**From:** Frierson, Ed W  
**Sent:** Monday, October 26, 2015 2:39 PM  
**To:** Robbins, Heather M.  
**Subject:** RE: T&E and Cultural Resource Reviews

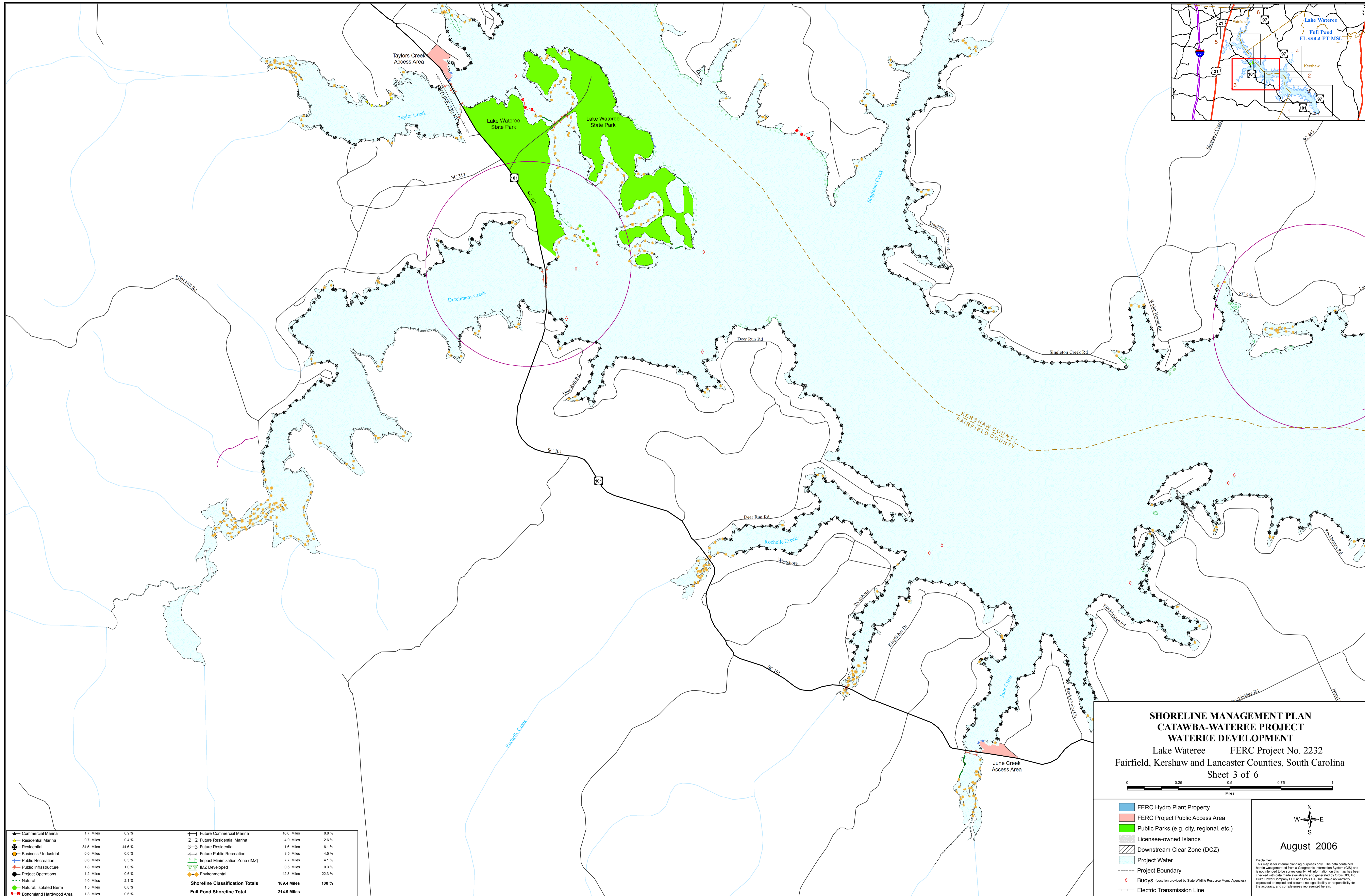
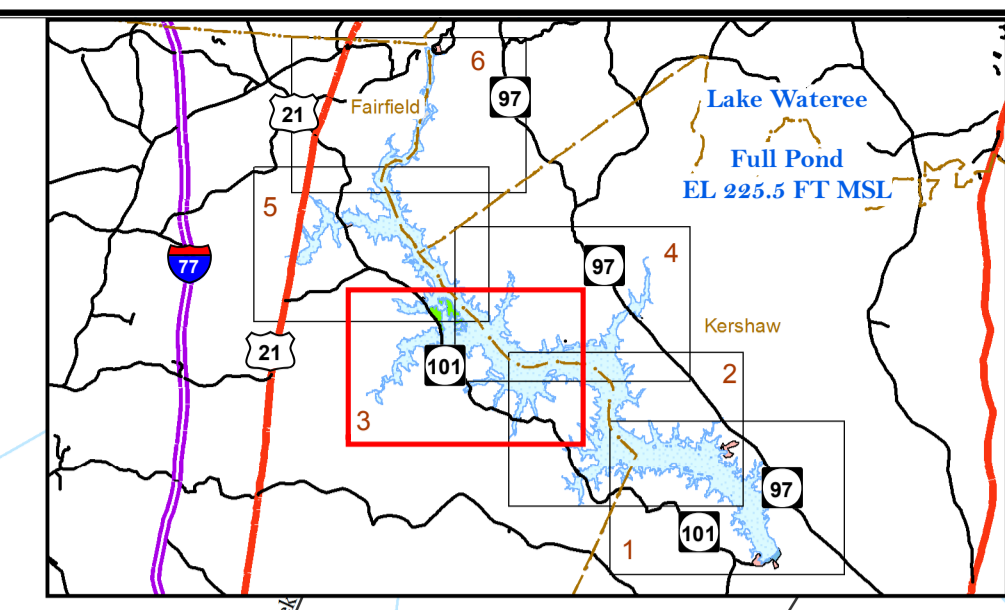
Heather,

Both of these projects have the heelsplitter listed for them, how are we handling that? Since S-101 appears to be part of the lake, it is probably not considered habitat. SC 34 was looked at by Jeff West a few years ago. I don't think he found anything. So that study is probably still valid. I just wanted to touch base to see how we are handling the heelsplitter on these flood projects.

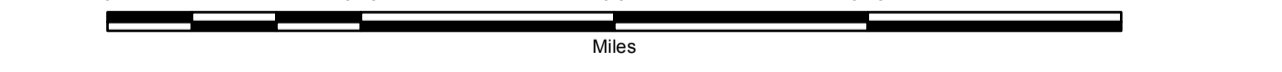
*Edward W. Frierson*  
*SCDOT NEPA Coordinator/Biologist*  
*803-737-1861*

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**From:** Robbins, Heather M.  
**Sent:** Friday, October 23, 2015 4:04 PM  
**To:** Jurgelski, Bill M.; Frierson, Ed W



**SHORELINE MANAGEMENT PLAN  
CATAWBA-WATEREE PROJECT  
WATEREE DEVELOPMENT**  
 Lake Wateree FERC Project No. 2232  
 Fairfield, Kershaw and Lancaster Counties, South Carolina  
 Sheet 3 of 6



<ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #ADD8E6; border: 1px solid black; margin-right: 5px;"></span> FERC Hydro Plant Property</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #FFC0CB; border: 1px solid black; margin-right: 5px;"></span> FERC Project Public Access Area</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #90EE90; border: 1px solid black; margin-right: 5px;"></span> Public Parks (e.g. city, regional, etc.)</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #D3D3D3; border: 1px solid black; margin-right: 5px;"></span> Licensee-owned Islands</li> <li><span style="display: inline-block; width: 15px; height: 10px; border: 1px dashed black; margin-right: 5px;"></span> Downstream Clear Zone (DCZ)</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #ADD8E6; border: 1px solid black; margin-right: 5px;"></span> Project Water</li> <li><span style="display: inline-block; border-bottom: 1px dashed black; width: 15px; margin-right: 5px;"></span> Project Boundary</li> <li><span style="display: inline-block; width: 0; height: 0; border-left: 5px solid transparent; border-right: 5px solid transparent; border-bottom: 8px solid black; margin-right: 5px;"></span> Buoys (Location provided by State Wildlife Resource Mgmt. Agencies)</li> <li><span style="display: inline-block; width: 15px; border-bottom: 1px solid black; margin-right: 5px;"></span> Electric Transmission Line</li> </ul>	<p><b>August 2006</b></p> <p><small>Disclaimer: This map is for internal planning purposes only. The data contained herein was generated from a Geographic Information System (GIS) and is not intended to be survey quality. All information on this map has been checked with data made available to and generated by Ochs GIS, Inc. Duke Power Company LLC and Ochs GIS, Inc. make no warranty, expressed or implied, and assume no legal liability or responsibility for the accuracy, and completeness represented herein.</small></p>
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	Commercial Marina	1.7 Miles	0.9%		Future Commercial Marina	16.6 Miles	8.8%
	Residential Marina	0.7 Miles	0.4%		Future Residential Marina	4.9 Miles	2.6%
	Residential	84.5 Miles	44.6%		Future Residential	11.6 Miles	6.1%
	Business / Industrial	0.0 Miles	0.0%		Future Public Recreation	8.6 Miles	4.5%
	Public Recreation	0.6 Miles	0.3%		Impact Minimization Zone (IMZ)	7.7 Miles	4.1%
	Public Infrastructure	1.8 Miles	1.0%		IMZ Developed	0.5 Miles	0.3%
	Project Operations	1.2 Miles	0.6%		Environmental	42.3 Miles	22.3%
	Natural	4.0 Miles	2.1%				
	Natural: Isolated Berm	1.5 Miles	0.8%				
	Bottomland Hardwood Area	1.3 Miles	0.6%				
<b>Shoreline Classification Totals</b>		<b>189.4 Miles</b>	<b>100 %</b>	<b>Full Pond Shoreline Total</b>		<b>214.9 Miles</b>	



**NOTES TO USERS**

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updates or additional flood hazard information.

To obtain more detailed information in areas where Base Flood Elevations (BFEs) and/or Floodways have been delineated to conduct the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRMA. Users should be aware that BFEs shown on the FIS report represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRMA for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations (CBFEs) shown on this map apply only to landward of 0.7 North American Vertical Datum of 1988 (NAVD 88). Users of this FIRMA should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRMA.

Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 2.A "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The projection used in the preparation of this map was State Plane South Carolina FIPS 3200. The horizontal datum was NAD83 HARN, GRS1980 spheroid. Differences in datum, spheroid projection or State Plane zones used in the production of FIRMA for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRMA.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at <http://www.ngs.noaa.gov/> or contact the National Geodetic Survey at the following address:

NGS Information Services  
 NOAA, NWS1212  
 National Geodetic Survey SSCM-3, #9202  
 1315 East-West Highway  
 Silver Spring, Maryland 20910-3282  
 (301) 713-2842

To obtain current elevation, description, and/or location information for bench marks shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-2842 or visit its website at <http://www.ngs.noaa.gov/>.

Base map information shown on this FIRMA was provided in digital format by Fairfield County, South Carolina.

This map reflects more detailed and up-to-date stream channel configurations than those shown on the previous FIRMA for this jurisdiction. The floodways and floodways that were transferred from the previous FIRMA may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed Map Index for an overview map of the county showing the layout of map panels, community map repository addresses, and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

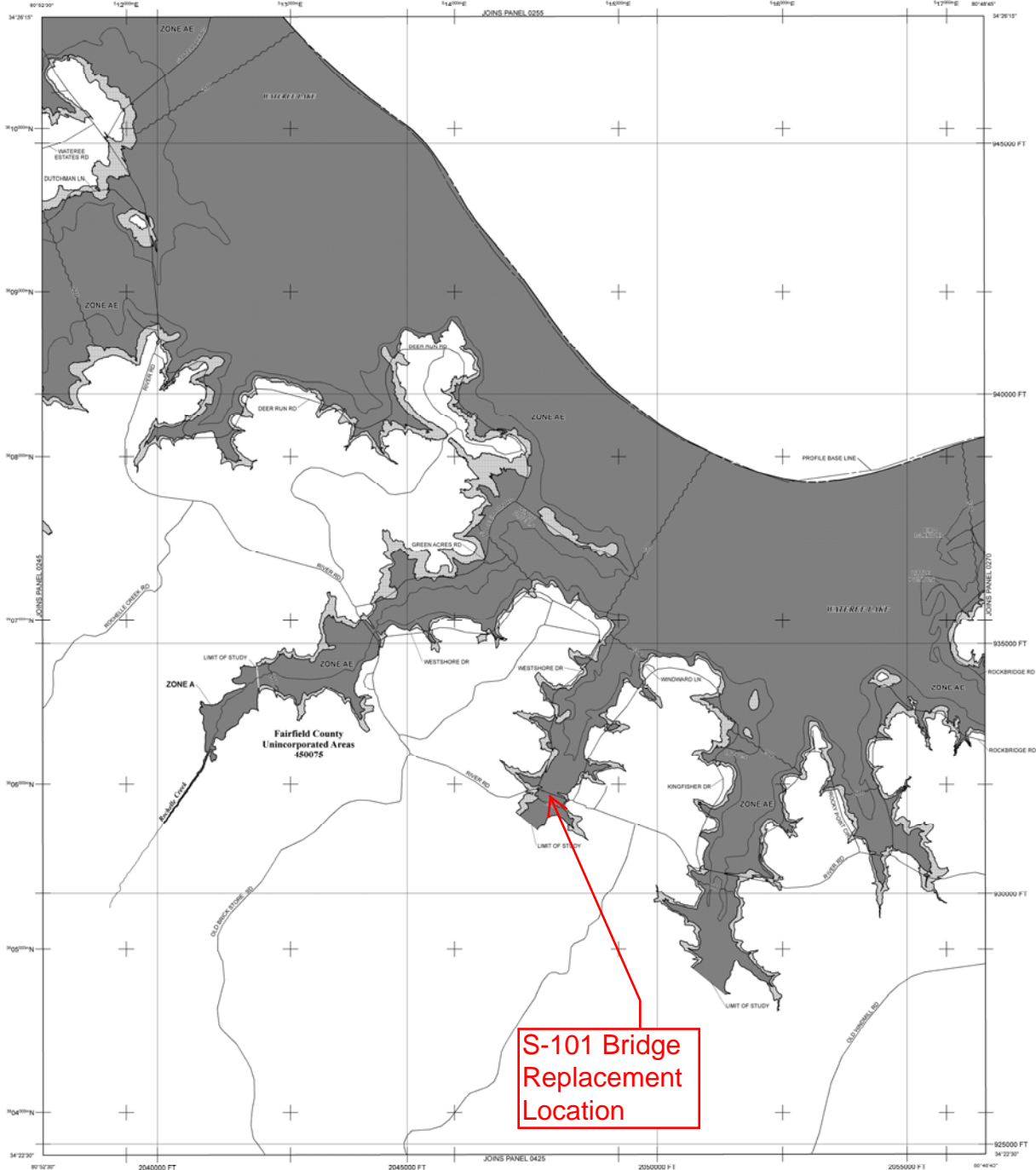
Contact the FEMA Map Service Center at 1-800-358-9616 for information on available products associated with this FIRMA. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1-800-358-9620 and its website at <http://www.fema.gov/>.

If you have questions about this map or questions concerning the National Flood Insurance Program in general, please call 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA website at <http://www.fema.gov/>.

The "profile base lines" depicted on this map represent the hydraulic modeling baselines that match the flood profiles in the FIS report. As a result of improved topographic data, the "profile base line", in some cases, may deviate significantly from the channel centerline or appear outside the SFHA.

**DNR**  
 This digital Flood Insurance Rate Map (FIRMA) was produced through a unique cooperative partnership between the State of South Carolina and the Federal Emergency Management Agency (FEMA). The State of South Carolina has implemented a long term approach of floodplain management to decrease the costs associated with flooding. This is a significant step in the State's commitment to map floodplain areas at the local level. As a part of this effort, the State of South Carolina has joined in a Cooperative Technical State agreement with FEMA to produce and maintain this digital FIRMA.

<http://www.dnr.state.sc.us/>



**LEGEND**

**SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD**

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AV, A99, V, and VE. The Base Flood Elevation is the water surface elevation of the 1% annual chance flood.

**ZONE A**  
 No Base Flood Elevations determined.

**ZONE AE**  
 Base Flood Elevations determined.

**ZONE AH**  
 Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined.

**ZONE AO**  
 Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of annual flow flooding, velocities also determined.

**ZONE AR**  
 Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently abandoned. Zone AR indicates that the former flood control system is being retained to provide protection from the 1% annual chance or greater flood.

**ZONE A99**  
 Areas to be protected from 1% annual chance flood event by a Federal flood protection system under construction; no Base Flood Elevations determined.

**ZONE V**  
 Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

**ZONE VE**  
 Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

**FLOODWAY AREAS IN ZONE AE**

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

**OTHER FLOOD AREAS**

**ZONE X**  
 Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile, and areas protected by levees from 1% annual chance flood.

**OTHER AREAS**

**ZONE D**  
 Areas determined to be outside the 0.2% annual chance floodplain. Areas in which flood hazards are undetermined, but possible.

**COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS**

**OTHERWISE PROTECTED AREAS (OPAs)**

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

Floodplain boundary  
 Floodway boundary  
 Zone D boundary  
 CBRS and OPA boundary  
 Boundary showing Special Flood Hazard Area Zones and boundaries showing Special Flood Hazard Areas of different Base Flood Elevations, flood depths, or flood velocities  
 Base Flood Elevation line and value; elevation in feet\*  
 Base Flood Elevation value where uniform within zone; elevation in feet\*  
 \*Referenced to the North American Vertical Datum of 1988

Class section line  
 Tapered line  
 Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere  
 47°07'00" N  
 80°00'00" W  
 6000000 FT  
 00000000  
 1811 S

**MAP REPOSITORIES**  
 Refer to Map Repositories List on Map Index  
 EFFECTIVE DATE OF COUNTY/FLOOD INSURANCE RATE MAP  
 May 3, 2011  
 EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.  
 To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-635-6022.

**MAP SCALE 1" = 1000'**

**NFIP** PANEL 0265C

**FIRM**  
 FLOOD INSURANCE RATE MAP  
 FAIRFIELD COUNTY,  
 SOUTH CAROLINA  
 AND INCORPORATED AREAS

PANEL 265 OF 525  
 (SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:  
 COMMUNITY NUMBER PANEL SUFFIX  
 FAIRFIELD COUNTY 40075 085 C

**NATIONAL FLOOD INSURANCE PROGRAM**

MAP NUMBER  
 4503C0265C

EFFECTIVE DATE  
 MAY 3, 2011

Federal Emergency Management Agency

**S-101 Bridge Replacement Location**





