

FLOOD INSURANCE STUDY

FEDERAL EMERGENCY MANAGEMENT AGENCY

VOLUME 1 OF 1



EDGEFIELD COUNTY, SOUTH CAROLINA AND INCORPORATED AREAS

COMMUNITY NAME	COMMUNITY NUMBER
EDGEFIELD, TOWN OF	450074
EDGEFIELD COUNTY UNINCORPORATED AREAS	450229
JOHNSTON, TOWN OF	450266
TRENTON, TOWN OF*	450296

*No Special Flood Hazard Areas Identified



FEMA

REVISED:

FLOOD INSURANCE STUDY NUMBER

45037CV000B

Version Number 2.3.3.3

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Exhibits

Flood Profiles	<u>Panel</u>
Fox Creek	01 P
Savannah River	02-04 P
Stevens Creek	05-08 P

Published Separately

Flood Insurance Rate Map (FIRM)

FLOOD INSURANCE STUDY REPORT EDGEFIELD COUNTY, SOUTH CAROLINA

SECTION 1.0 – INTRODUCTION

1.1 The National Flood Insurance Program

The National Flood Insurance Program (NFIP) is a voluntary Federal program that enables property owners in participating communities to purchase insurance protection against losses from flooding. This insurance is designed to provide an alternative to disaster assistance to meet the escalating costs of repairing damage to buildings and their contents caused by floods.

For decades, the national response to flood disasters was generally limited to constructing flood-control works such as dams, levees, sea-walls, and the like, and providing disaster relief to flood victims. This approach did not reduce losses nor did it discourage unwise development. In some instances, it may have actually encouraged additional development. To compound the problem, the public generally could not buy flood coverage from insurance companies, and building techniques to reduce flood damage were often overlooked.

In the face of mounting flood losses and escalating costs of disaster relief to the general taxpayers, the U.S. Congress created the NFIP. The intent was to reduce future flood damage through community floodplain management ordinances, and provide protection for property owners against potential losses through an insurance mechanism that requires a premium to be paid for the protection.

The U.S. Congress established the NFIP on August 1, 1968, with the passage of the National Flood Insurance Act of 1968. The NFIP was broadened and modified with the passage of the Flood Disaster Protection Act of 1973 and other legislative measures. It was further modified by the National Flood Insurance Reform Act of 1994 and the Flood Insurance Reform Act of 2004. The NFIP is administered by the Federal Emergency Management Agency (FEMA), which is a component of the Department of Homeland Security (DHS).

Participation in the NFIP is based on an agreement between local communities and the Federal Government. If a community adopts and enforces floodplain management regulations to reduce future flood risks to new construction and substantially improved structures in Special Flood Hazard Areas (SFHAs), the Federal Government will make flood insurance available within the community as a financial protection against flood losses. The community's floodplain management regulations must meet or exceed criteria established in accordance with Title 44 Code of Federal Regulations (CFR) Part 60.3, *Criteria for land Management and Use*.

SFHAs are delineated on the community's Flood Insurance Rate Maps (FIRMs). Under the NFIP, buildings that were built before the flood hazard was identified on the community's FIRMs are generally referred to as "Pre-FIRM" buildings. When the NFIP was created, the U.S. Congress recognized that insurance for Pre-FIRM buildings would be prohibitively expensive if the premiums were not subsidized by the Federal Government. Congress also recognized that most of these floodprone buildings were built by individuals who did not have sufficient knowledge of the flood hazard to make informed decisions. The NFIP requires that full actuarial rates reflecting the complete flood risk be charged on all buildings constructed or substantially improved on or after the effective date of the initial FIRM for the community or after December 31, 1974, whichever is

later. These buildings are generally referred to as “Post-FIRM” buildings.

1.2 Purpose of this Flood Insurance Study Report

This Flood Insurance Study (FIS) report revises and updates information on the existence and severity of flood hazards for the study area. The studies described in this report developed flood hazard data that will be used to establish actuarial flood insurance rates and to assist communities in efforts to implement sound floodplain management.

In some states or communities, floodplain management criteria or regulations may exist that are more restrictive than the minimum Federal requirements. Contact your State NFIP Coordinator to ensure that any higher State standards are included in the community’s regulations.

1.3 Jurisdictions Included in the Flood Insurance Study Project

This FIS Report covers the entire geographic area of Edgefield County, South Carolina.

The jurisdictions that are included in this project area, along with the Community Identification Number (CID) for each community and the 8-digit Hydrologic Unit Codes (HUC-8) sub-basins affecting each, are shown in Table 1. The Flood Insurance Rate Map (FIRM) panel numbers that affect each community are listed. If the flood hazard data for the community is not included in this FIS Report, the location of that data is identified.

The location of flood hazard data for participating communities in multiple jurisdictions is also indicated in the table.

Jurisdictions that have no identified SFHAs as of the effective date of this study are indicated in the table. Changed conditions in these communities (such as urbanization or annexation) or the availability of new scientific or technical data about flood hazards could make it necessary to determine SFHAs in these jurisdictions in the future.

Table 1: Listing of NFIP Jurisdictions

Community	CID	HUC-8 Sub-Basin(s)	Located on FIRM Panel(s)	If Not Included, Location of Flood Hazard Data
Edgefield, Town of	450074	03060107	45037C0165D, 45037C0170D, 45037C0175D, 45037C0281E	
Edgefield County, Unincorporated Areas	450229	03050204, 03060106, 03060107	45037C0025D, 45037C0050D, 45037C0075D, 45037C0100D, 45037C0110E, 45037C0120E, 45037C0150D, 45037C0165D, 45037C0170D,	

Table 1: Listing of NFIP Jurisdictions, continued

Community	CID	HUC-8 Sub-Basin(s)	Located on FIRM Panel(s)	If Not Included, Location of Flood Hazard Data
Edgefield County, Unincorporated Areas (continued)	450229	03050204, 03060106, 03060107	45037C0175D, 45037C0180D, 45037C0185D ² , 45037C0190D ² , 45037C0195D ² , 45037C0225D, 45037C0231E, 45037C0232E, 45037C0233E, 45037C0234E, 45037C0245E, 45037C0255E, 45037C0260E, 45037C0265E, 45037C0266E, 45037C0267E, 45037C0268E, 45037C0269E, 45037C0276E, 45037C0277E, 45037C0278E, 45037C0279E, 45037C0281E, 45037C0283E, 45037C0285E ² , 45037C0286E, 45037C0287E ² , 45037C0288E, 45037C0289E, 45037C0291E, 45037C0293E, 45037C0295E ² , 45037C0310D, 45037C0325D ² , 45037C0350D ² , 45037C0351D, 45037C0352D, 45037C0353D, 45037C0354D, 45037C0356E, 45037C0357E, 45037C0358D, 45037C0359D, 45037C0366E, 45037C0367E, 45037C0400D ²	
Johnston, Town of	450266	03050204, 03060107	45037C0180D, 45037C0185D ²	

Table 1: Listing of NFIP Jurisdictions, continued

Community	CID	HUC-8 Sub-Basin(s)	Located on FIRM Panel(s)	If Not Included, Location of Flood Hazard Data
North Augusta, City of	450007	03060106	45037C0367E, 45037C0400D ²	Aiken County, SC FIS Report, 2016 (FEMA, 2016)
Trenton, Town of ¹	450296	03050204	45037C0190D ² , 45037C0325D ²	

¹ No Special Flood Hazard Areas Identified

² Panel Not Printed

1.4 Considerations for using this Flood Insurance Study Report

The NFIP encourages State and local governments to implement sound floodplain management programs. To assist in this endeavor, each FIS Report provides floodplain data, which may include a combination of the following: 10-, 4-, 2-, 1-, and 0.2-percent annual chance flood elevations (the 1% annual chance flood elevation is also referred to as the Base Flood Elevation (BFE)); delineations of the 1% annual chance and 0.2% annual chance floodplains; and 1% annual chance floodway. This information is presented on the FIRM and/or in many components of the FIS Report, including Flood Profiles, Floodway Data tables, Summary of Non-Coastal Stillwater Elevations tables, and Coastal Transect Parameters tables (not all components may be provided for a specific FIS).

This section presents important considerations for using the information contained in this FIS Report and the FIRM, including changes in format and content. Figures 1, 2, and 3 present information that applies to using the FIRM with the FIS Report.

- Part or all of this FIS Report may be revised and republished at any time. In addition, part of this FIS Report may be revised by a Letter of Map Revision (LOMR), which does not involve republication or redistribution of the FIS Report. Refer to Section 6.5 of this FIS Report for information about the process to revise the FIS Report and/or FIRM.

It is, therefore, the responsibility of the user to consult with community officials by contacting the community repository to obtain the most current FIS Report components. Communities participating in the NFIP have established repositories of flood hazard data for floodplain management and flood insurance purposes. Community map repository addresses are provided in Table 31, “Map Repositories,” within this FIS Report.

- New FIS Reports are frequently developed for multiple communities, such as entire counties. A countywide FIS Report incorporates previous FIS Reports for individual communities and the unincorporated area of the county (if not jurisdictional) into a single document and supersedes those documents for the purposes of the NFIP.

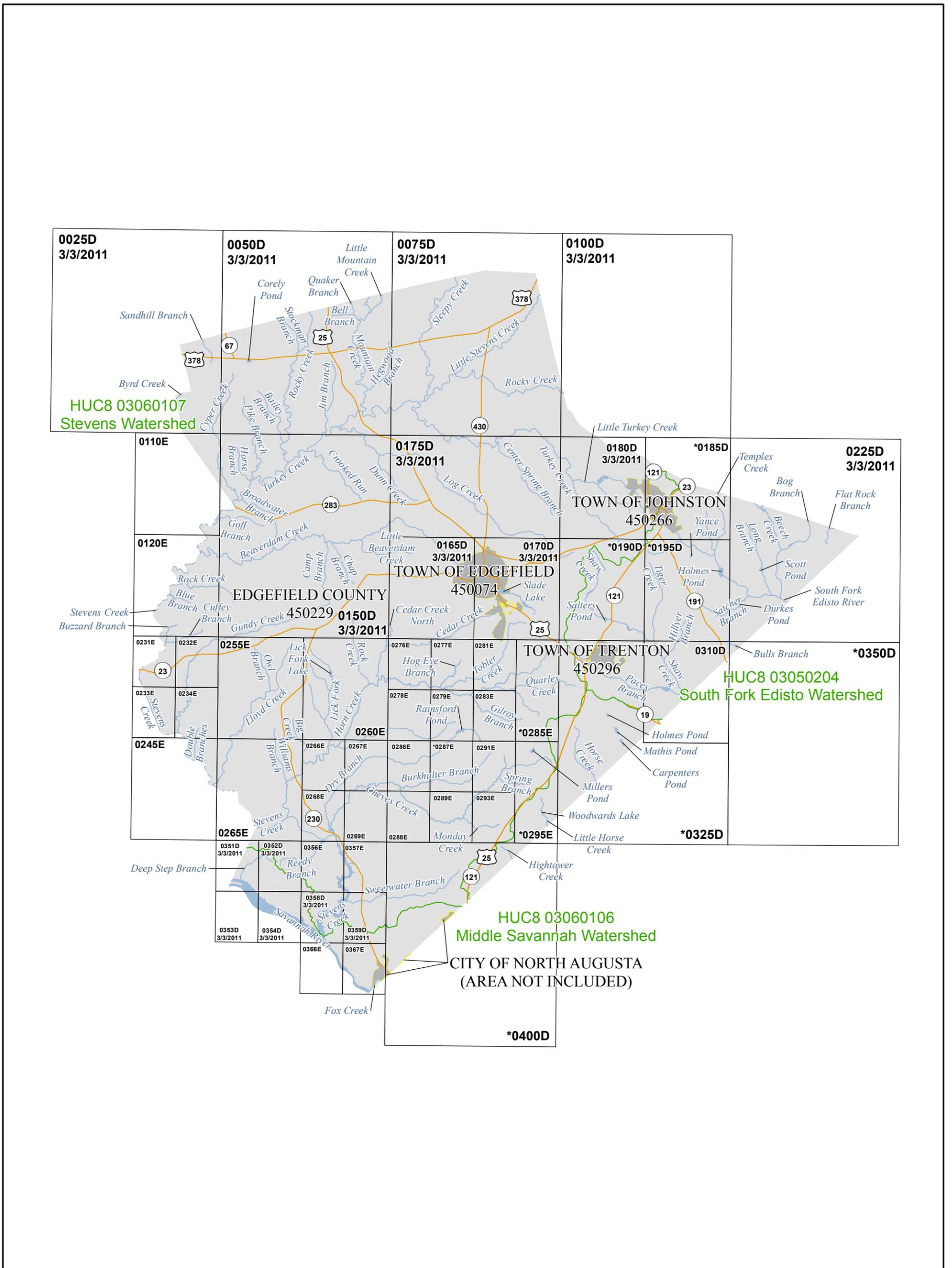
The initial Countywide FIS Report for Edgefield County became effective on March 3, 2011. Refer to Table 28 for information about subsequent revisions to the FIRMs.

- FEMA has developed a *Guide to Flood Maps* (FEMA 258) and online tutorials to assist

users in accessing the information contained on the FIRM. These include how to read panels and step-by-step instructions to obtain specific information. To obtain this guide and other assistance in using the FIRM, visit the FEMA Web site at www.fema.gov/online-tutorials.

The FIRM Panel Index in Figure 1 shows the overall FIRM panel layout within Edgefield County, and also displays the panel number and effective date for each FIRM panel in the county. Other information shown on the FIRM Panel Index includes community boundaries, flooding sources, watershed boundaries, and United States Geological Survey (USGS) Hydrologic Unit Code – 8 (HUC-8) codes.

Figure 1: FIRM Panel Index




 1 inch = 20,984 feet 1:251,813
 0 11,250 22,500 45,000 Feet

Map Projection:
 Lambert Conformal Conic State Plane South Carolina
 FIPS 3900; North American Datum 1983
 Western Hemisphere; Vertical Datum: North American
 Vertical Datum of 1988

**THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING
 DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT
[HTTP://MSC.FEMA.GOV](http://MSC.FEMA.GOV)**

SEE FLOOD INSURANCE STUDY FOR ADDITIONAL INFORMATION

*PANEL NOT PRINTED - NO SPECIAL FLOOD HAZARD
 AREAS



NATIONAL FLOOD INSURANCE PROGRAM
 FLOOD INSURANCE RATE MAP PANEL INDEX

EDGEFIELD COUNTY, SOUTH CAROLINA and Incorporated Areas

PANELS PRINTED:

0025, 0050, 0075, 0100, 0110, 0120, 0150, 0165, 0170, 0175, 0180,
 0225, 0231, 0232, 0233, 0234, 0245, 0255, 0260, 0265, 0266, 0267,
 0268, 0269, 0276, 0277, 0278, 0279, 0281, 0283, 0286, 0288, 0289,
 0291, 0293, 0310, 0351, 0352, 0353, 0354, 0356, 0357, 0358, 0359,
 0366, 0367



FEMA

PRELIMINARY
4/29/2016

MAP NUMBER
 45037CIND0B
 MAP REVISED

Each FIRM panel may contain specific notes to the user that provide additional information regarding the flood hazard data shown on that map. However, the FIRM panel does not contain enough space to show all the notes that may be relevant in helping to better understand the information on the panel. Figure 2 contains the full list of these notes.

Figure 2: FIRM Notes to Users

NOTES TO USERS

For information and questions about this map, available products associated with this FIRM including historic versions of this FIRM, how to order products, or the National Flood Insurance Program in general, please call the FEMA Map Information eXchange at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA Flood Map Service Center website at msc.fema.gov. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the website. Users may determine the current map date for each FIRM panel by visiting the FEMA Flood Map Service Center website or by calling the FEMA Map Information eXchange.

Communities annexing land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM Panel Index. These may be ordered directly from the Flood Map Service Center at the number listed above.

For community and countywide map dates, refer to Table 28 in this FIS Report.

To determine if flood insurance is available in the community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

PRELIMINARY FIS REPORT: FEMA maintains information about map features, such as street locations and names, in or near designated flood hazard areas. Requests to revise information in or near designated flood hazard areas may be provided to FEMA during the community review period, at the final Consultation Coordination Officer's meeting, or during the statutory 90-day appeal period. Approved requests for changes will be shown on the final printed FIRM.

The map is for use in administering the NFIP. It may not identify all areas subject to flooding, particularly from local drainage sources of small size. Consult the community map repository to find updated or additional flood hazard information.

BASE FLOOD ELEVATIONS: For more detailed information in areas where Base Flood Elevations (BFEs) and/or floodways have been determined, consult the Flood Profiles and Floodway Data and/or Summary of Non-Coastal Stillwater Elevations tables within this FIS Report. Use the flood elevation data within the FIS Report in conjunction with the FIRM for construction and/or floodplain management.

FLOODWAY INFORMATION: 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 FIS Report for this jurisdiction.

FLOOD CONTROL STRUCTURE INFORMATION: Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 4.3 "Non-Levee Flood Protection Measures" of this FIS Report for information on flood control structures for this jurisdiction.

Figure 2: FIRM Notes to Users

PROJECTION INFORMATION: The projection used in the preparation of the map was North American Datum of 1983 (NAD83) StatePlane South Carolina FIPS 3900, Lambert Conformal Conic. The horizontal datum was NAD83, Spheroid GRS 1980. Differences in datum, spheroid, projection or State Plane zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of the FIRM.

ELEVATION DATUM: Flood elevations on the FIRM 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 www.ngs.noaa.gov or contact the National Geodetic Survey at the following address:

*NGS Information Services
NOAA, N/NGS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242*

Local vertical monuments may have been used to create the map. To obtain current monument information, please contact the appropriate local community listed in Table 31 of this FIS Report.

BASE MAP INFORMATION: Base map information shown on the FIRM was provided by NFHL and TIGER at a scale of 1:12,000. For panels dated 3 March, 2011, base map information was provided by NHD, SCDNR, and University of South Carolina GIS Data Server. For information about base maps, refer to Section 6.2 "Base Map" in this FIS Report.

The map reflects more detailed and up-to-date stream channel configurations than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables may reflect stream channel distances that differ from what is shown on the map.

Corporate limits shown on the 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 the map was published, map users should contact appropriate community officials to verify current corporate limit locations.

NOTES FOR FIRM PANEL INDEX

REVISIONS TO INDEX: As new studies are performed and FIRM panels are updated within Edgefield County, South Carolina, corresponding revisions to the FIRM Panel Index will be incorporated within the FIS Report to reflect the effective dates of those panels. Please refer to Table 28 of this FIS Report to determine the most recent FIRM revision date for each community. The most recent FIRM panel effective date will correspond to the most recent index date.

Figure 2: FIRM Notes to Users

SPECIAL NOTES FOR SPECIFIC FIRM PANELS

This Notes to Users section was created specifically for Edgefield County, South Carolina, effective TBD.

FLOOD RISK REPORT: A Flood Risk Report (FRR) may be available for many of the flooding sources and communities referenced in this FIS Report. The FRR is provided to increase public awareness of flood risk by helping communities identify the areas within their jurisdictions that have the greatest risks. Although non-regulatory, the information provided within the FRR can assist communities in assessing and evaluating mitigation opportunities to reduce these risks. It can also be used by communities developing or updating flood risk mitigation plans. These plans allow communities to identify and evaluate opportunities to reduce potential loss of life and property. However, the FRR is not intended to be the final authoritative source of all flood risk data for a project area; rather, it should be used with other data sources to paint a comprehensive picture of flood risk.

Each FIRM panel contains an abbreviated legend for the features shown on the maps. However, the FIRM panel does not contain enough space to show the legend for all map features. Figure 3 shows the full legend of all map features. Note that not all of these features may appear on the FIRM panels in Edgefield County.

Figure 3: Map Legend for FIRM

SPECIAL FLOOD HAZARD AREAS: *The 1% annual chance flood, also known as the base flood or 100-year flood, has a 1% chance of happening or being exceeded each year. Special Flood Hazard Areas are subject to flooding by the 1% annual chance flood. The Base Flood Elevation is the water surface elevation of the 1% annual chance flood. 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. See note for specific types. If the floodway is too narrow to be shown, a note is shown.*



Special Flood Hazard Areas subject to inundation by the 1% annual chance flood (Zones A, AE, AH, AO, AR, A99, V and VE)

- Zone A The flood insurance rate zone that corresponds to the 1% annual chance floodplains. No base (1% annual chance) flood elevations (BFEs) or depths are shown within this zone.
- Zone AE The flood insurance rate zone that corresponds to the 1% annual chance floodplains. Base flood elevations derived from the hydraulic analyses are shown within this zone, either at cross section locations or as static whole-foot elevations that apply throughout the zone.
- Zone AH The flood insurance rate zone that corresponds to the areas of 1% annual chance shallow flooding (usually areas of ponding) where average depths are between 1 and 3 feet. Whole-foot BFEs derived from the hydraulic analyses are shown at selected intervals within this zone.
- Zone AO The flood insurance rate zone that corresponds to the areas of 1% annual chance shallow flooding (usually sheet flow on sloping terrain) where average depths are between 1 and 3 feet. Average whole-foot depths derived from the hydraulic analyses are shown within this zone.
- Zone AR The flood insurance rate zone that corresponds to areas that were formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- Zone A99 The flood insurance rate zone that corresponds to areas of the 1% annual chance floodplain that will be protected by a Federal flood protection system where construction has reached specified statutory milestones. No base flood elevations or flood depths are shown within this zone.
- Zone V The flood insurance rate zone that corresponds to the 1% annual chance coastal floodplains that have additional hazards associated with storm waves. Base flood elevations are not shown within this zone.
- Zone VE Zone VE is the flood insurance rate zone that corresponds to the 1% annual chance coastal floodplains that have additional hazards associated with storm waves. Base flood elevations derived from the coastal analyses are shown within this zone as static whole-foot elevations that apply throughout the zone.

Figure 3: Map Legend for FIRM

	Regulatory Floodway determined in Zone AE.
	Non-encroachment zone (see Section 2.4 of this FIS Report for more information)
OTHER AREAS OF FLOOD HAZARD	
	Shaded Zone X: Areas of 0.2% annual chance flood hazards and areas of 1% annual chance flood hazards with average depths of less than 1 foot or with drainage areas less than 1 square mile.
	Future Conditions 1% Annual Chance Flood Hazard – Zone X: The flood insurance rate zone that corresponds to the 1% annual chance floodplains that are determined based on future-conditions hydrology. No base flood elevations or flood depths are shown within this zone.
	Area with Reduced Flood Risk due to Levee: Areas where an accredited levee, dike, or other flood control structure has reduced the flood risk from the 1% annual chance flood.
OTHER AREAS	
	Zone D (Areas of Undetermined Flood Hazard): The flood insurance rate zone that corresponds to unstudied areas where flood hazards are undetermined, but possible.
	Unshaded Zone X: Areas of minimal flood hazard.
FLOOD HAZARD AND OTHER BOUNDARY LINES	
<p>(ortho) (vector)</p>	Flood Zone Boundary (white line on ortho-photography-based mapping; gray line on vector-based mapping)
	Limit of Study
	Jurisdiction Boundary
	Limit of Moderate Wave Action (LiMWA): Indicates the inland limit of the area affected by waves greater than 1.5 feet
GENERAL STRUCTURES	
<p>Aqueduct Channel Culvert Storm Sewer</p>	Channel, Culvert, Aqueduct, or Storm Sewer
<p>Dam Jetty Weir</p>	Dam, Jetty, Weir

Figure 3: Map Legend for FIRM

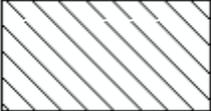
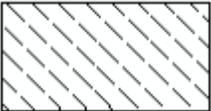
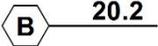
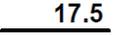
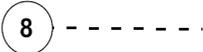
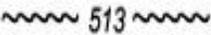
  <i>Bridge</i>	<p>Levee, Dike or Floodwall</p> <p>Bridge</p>
<p>COASTAL BARRIER RESOURCES SYSTEM (CBRS) AND OTHERWISE PROTECTED AREAS (OPA): <i>CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.</i></p>	
 CBRS AREA 09/30/2009  OTHERWISE PROTECTED AREA 09/30/2009	<p>Coastal Barrier Resources System Area: Labels are shown to clarify where this area shares a boundary with an incorporated area or overlaps with the floodway.</p> <p>Otherwise Protected Area</p>
<p>REFERENCE MARKERS</p>	
	<p>River mile Markers</p>
<p>CROSS SECTION & TRANSECT INFORMATION</p>	
	<p>Lettered Cross Section with Regulatory Water Surface Elevation (BFE)</p>
	<p>Numbered Cross Section with Regulatory Water Surface Elevation (BFE)</p>
	<p>Unlettered Cross Section with Regulatory Water Surface Elevation (BFE)</p>
	<p>Coastal Transect</p>
 	<p>Profile Baseline: Indicates the modeled flow path of a stream and is shown on FIRM panels for all valid studies with profiles or otherwise established base flood elevation.</p> <p>Coastal Transect Baseline: Used in the coastal flood hazard model to represent the 0.0-foot elevation contour and the starting point for the transect and the measuring point for the coastal mapping.</p>
	<p>Base Flood Elevation Line (shown for flooding sources for which no cross sections or profile are available)</p>

Figure 3: Map Legend for FIRM

ZONE AE (EL 16)	Static Base Flood Elevation value (shown under zone label)
ZONE AO (DEPTH 2)	Zone designation with Depth
ZONE AO (DEPTH 2) (VEL 15 FPS)	Zone designation with Depth and Velocity
BASE MAP FEATURES	
 <i>Horn Creek</i>	River, Stream or Other Hydrographic Feature
	Interstate Highway
	U.S. Highway
	State Highway
	County Highway
<u>MAPLE LANE</u>	Street, Road, Avenue Name, or Private Drive if shown on Flood Profile
 <i>RAILROAD</i>	Railroad
	Horizontal Reference Grid Line
	Horizontal Reference Grid Ticks
	Secondary Grid Crosshairs
Land Grant	Name of Land Grant
7	Section Number
R. 43 W. T. 22 N.	Range, Township Number
⁴² 76 ^{000m} E	Horizontal Reference Grid Coordinates (UTM)
365000 FT	Horizontal Reference Grid Coordinates (State Plane)
80° 16' 52.5"	Corner Coordinates (Latitude, Longitude)

SECTION 2.0 – FLOODPLAIN MANAGEMENT APPLICATIONS

2.1 Floodplain Boundaries

To provide a national standard without regional discrimination, the 1% annual chance (100-year) flood has been adopted by FEMA as the base flood for floodplain management purposes. The 0.2% annual chance (500-year) flood is employed to indicate additional areas of flood hazard in the community.

Each flooding source included in the project scope has been studied and mapped using professional engineering and mapping methodologies that were agreed upon by FEMA and Edgefield County as appropriate to the risk level. Flood risk is evaluated based on factors such as known flood hazards and projected impact on the built environment. Engineering analyses were performed for each studied flooding source to calculate its 1% annual chance flood elevations; elevations corresponding to other floods (e.g. 10-, 4-, 2-, 0.2-percent annual chance, etc.) may have also been computed for certain flooding sources. Engineering models and methods are described in detail in Section 5.0 of this FIS Report. The modeled elevations at cross sections were used to delineate the floodplain boundaries on the FIRM; between cross sections, the boundaries were interpolated using elevation data from various sources. More information on specific mapping methods is provided in Section 6.0 of this FIS Report.

Depending on the accuracy of available topographic data (Table 23), study methodologies employed (Section 5.0), and flood risk, certain flooding sources may be mapped to show both the 1% and 0.2% annual chance floodplain boundaries, regulatory water surface elevations (BFEs), and/or a regulatory floodway. Similarly, other flooding sources may be mapped to show only the 1% annual chance floodplain boundary on the FIRM, without published water surface elevations. In cases where the 1% and 0.2% annual chance floodplain boundaries are close together, only the 1% annual chance floodplain boundary is shown on the FIRM. Figure 3, “Map Legend for FIRM”, describes the flood zones that are used on the FIRMs to account for the varying levels of flood risk that exist along flooding sources within the project area. Table 2 and Table 3 indicate the flood zone designations for each flooding source and each community within Edgefield County, South Carolina, respectively.

Table 2, “Flooding Sources Included in this FIS Report,” lists each flooding source, including its study limits, affected communities, mapped zone on the FIRM, and the completion date of its engineering analysis from which the flood elevations on the FIRM and in the FIS Report were derived. Descriptions and dates for the latest hydrologic and hydraulic analyses of the flooding sources are shown in Table 13. Floodplain boundaries for these flooding sources are shown on the FIRM (published separately) using the symbology described in Figure 3. On the map, the 1% annual chance floodplain corresponds to the SFHAs. The 0.2% annual chance floodplain shows areas that, although out of the regulatory floodplain, are still subject to flood hazards.

Small areas within the floodplain boundaries may lie above the flood elevations but cannot be shown due to limitations of the map scale and/or lack of detailed topographic data. The procedures to remove these areas from the SFHA are described in Section 6.5 of this FIS Report.

Table 2: Flooding Sources Included in this FIS Report

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Academy Branch	Edgefield, Town of; Edgefield County, Unincorporated Areas	Confluence with Beaverdam Creek	0.5 miles upstream of Wells Road	03060107	1.7	—	N	A	2011
Academy Branch Tributary 1	Edgefield, Town of	Confluence with Academy Branch	Approximately 1,200 feet upstream of Macedonia Street	03060107	0.6	—	N	A	2011
Academy Branch Tributary 2	Edgefield, Town of	Confluence with Academy Branch	0.4 miles upstream of confluence with Academy Branch	03060107	0.4	—	N	A	2011
Beaverdam Creek	Edgefield, Town of; Edgefield County, Unincorporated Areas	Confluence with Turkey Creek	0.8 miles upstream of Star Road	03060107	20.0	—	N	A	2011
Beaverdam Creek Tributary 1	Edgefield County, Unincorporated Areas	Confluence with Beaverdam Creek	Approximately 700 feet upstream of Bauskett Street	03060107	0.9	—	N	A	2011
Beaverdam Creek Tributary 2	Edgefield, Town of	Confluence with Beaverdam Creek	0.3 miles upstream of confluence with Beaverdam Creek	03060107	0.3	—	N	A	2011
Beaverdam Creek Tributary 3	Edgefield, Town of	Confluence with Beaverdam Creek	Approximately 650 feet upstream of Main Street	03060107	0.7	—	N	A	2011
Beaverdam Creek Tributary 4	Edgefield County, Unincorporated Areas	Confluence with Beaverdam Creek	At Parker Road	03060107	0.5	—	N	A	2011
Beaverdam Creek Tributary 4-1	Edgefield County, Unincorporated Areas	Confluence with Beaverdam Creek Tributary 4	At Star Road	03060107	1.0	—	N	A	2011

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Beech Creek	Edgefield County, Unincorporated Areas	Confluence with South Fork Edisto River	0.9 miles upstream of confluence with South Fork Edisto River	03050204	0.9	—	N	A	2011
Bell Branch	Edgefield County, Unincorporated Areas	Confluence with Mountain Creek	0.3 miles upstream of confluence with Mountain Creek	03060107	0.3	—	N	A	2011
Big Creek	Edgefield County, Unincorporated Areas	Confluence with Horn Creek	1.0 miles upstream of confluence with Horn Creek	03060107	1.0	—	N	A	2011
Bliss Creek	Edgefield County, Unincorporated Areas	Confluence with Little Stevens Creek	1.0 miles upstream of Highway 378	03060107	1.5	—	N	A	2011
Buzzard Branch	Edgefield County, Unincorporated Areas	Confluence with Cuffey Branch	0.6 miles upstream of confluence with Cuffey Branch	03060107	0.6	—	N	A	2011
Cedar Creek	Edgefield County, Unincorporated Areas	Confluence with Horn Creek	0.8 miles upstream of Hunters Run	03060107	3.7	—	N	A	2011
Cheves Creek	Edgefield County, Unincorporated Areas	Confluence with Stevens Creek	3.9 miles upstream of Jacob McKie Road	03060107	13.8	—	N	AE	2015
Cheves Creek Tributary 1	Edgefield County, Unincorporated Areas	Confluence with Cheves Creek	0.5 miles upstream of confluence with Cheves Creek	03060107	0.5	—	N	A	2011
Crooked Run	Edgefield County, Unincorporated Areas	Confluence with Turkey Creek	1.7 miles upstream of Walker Road	03060107	3.9	—	N	A	2011
Cyper Creek	Edgefield County, Unincorporated Areas	Confluence with Turkey Creek	Approximately 320 feet upstream of Sandrock Road	03060107	6.0	—	N	A	2011

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Cuffey Branch	Edgefield County, Unincorporated Areas	Confluence with Stevens Creek	0.8 miles upstream of confluence with Stevens Creek	03060107	0.8	—	N	A	2011
Double Branches	Edgefield County, Unincorporated Areas	Confluence with Stevens Creek	0.9 miles upstream of confluence with Stevens Creek	03060107	0.9	—	N	A	2011
Dry Branch	Edgefield County, Unincorporated Areas	Confluence with Cheves Creek	2.3 miles upstream of Dry Bridge Road	03060107	5.5	—	N	A	2011
Dry Creek	Edgefield County, Unincorporated Areas	Confluence with Horn Creek	Approximately 1,200 feet downstream of Lanham Road	03060107	2.5	—	N	A	2011
Dunn Creek	Edgefield County, Unincorporated Areas	Confluence with Log Creek	0.4 miles upstream of Moores Drive	03060107	1.3	—	N	A	2011
Fox Creek	Edgefield County, Unincorporated Areas	Confluence with Savannah River	At Edgefield-Aiken County Boundary	03060106	0.9	—	Y	AE	1978
Gilroy Branch	Edgefield County, Unincorporated Areas	Confluence with Horn Creek	0.8 miles upstream of confluence with Horn Creek	03060107	0.8	—	N	A	2011
Goff Branch	Edgefield County, Unincorporated Areas	Confluence with Turkey Creek	0.7 miles upstream of confluence with Turkey Creek	03060107	0.7	—	N	A	2011
Grandpa Creek	Edgefield County, Unincorporated Areas	Confluence with Cedar Creek	0.6 miles upstream of confluence with Cedar Creek	03060107	0.6	—	N	A	2011
Gundy Creek	Edgefield County, Unincorporated Areas	Confluence with Stevens Creek	Approximately 1,100 feet upstream of Recoletta Drive	03060107	9.6	—	N	A	2011

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Horn Creek	Edgefield County, Unincorporated Areas	Confluence with Stevens Creek	0.5 miles upstream of Yarborough Road	03060107	17.7	—	N	AE	2015
Hunters Creek	Edgefield County, Unincorporated Areas	Confluence with Cedar Creek	0.9 miles upstream of confluence with Cedar Creek	03060107	0.9	—	N	A	2011
Jim Branch	Edgefield County, Unincorporated Areas	Confluence with Turkey Creek	Approximately 1,600 feet upstream of confluence with Turkey Creek	03060107	0.3	—	N	A	2011
Jimmy Creek	Edgefield County, Unincorporated Areas	Confluence with Long Cane Creek	1.3 miles upstream of Jimmy Road	03060107	2.1	—	N	A	2011
Lick Fork	Edgefield County, Unincorporated Areas	Confluence with Horn Creek	1.7 miles upstream of Lick Fork Road	03060107	2.5	—	N	A	2011
Little Mountain Creek	Edgefield County, Unincorporated Areas	Confluence with Mountain Creek	0.9 miles upstream of Virgil Wall Road	03060107	1.0	—	N	A	2011
Little Stevens Creek	Edgefield County, Unincorporated Areas	Confluence with Turkey Creek	0.4 miles upstream of Unnamed Road	03060107	8.7	—	N	A	2011
Little Stevens Creek Tributary 1	Edgefield County, Unincorporated Areas	Confluence with Little Stevens Creek	Approximately 1,300 feet upstream of Unnamed Road	03060107	0.4	—	N	A	2011
Little Turkey Creek	Johnston, Town of; Edgefield County, Unincorporated Areas	Confluence with Turkey Creek	1.1 miles upstream of Weaver Road	03060107	2.8	—	N	A	2011

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Little Turkey Creek Tributary 1	Johnston, Town of; Edgefield County, Unincorporated Areas	Confluence with Little Turkey Creek	At Ridge Road	03060107	0.3	—	N	A	2011
Lloyd Creek	Edgefield County, Unincorporated Areas	Confluence with Stevens Creek	0.4 miles upstream of Key Road	03060107	6.1	—	N	A	2011
Log Creek	Edgefield County, Unincorporated Areas	Confluence with Turkey Creek	Approximately 460 feet upstream of Country Club Drive	03060107	12.3	—	N	A	2011
Long Cane Creek	Edgefield County, Unincorporated Areas	Confluence with Little Stevens Creek	1.4 miles upstream of confluence with Little Stevens Creek	03060107	2.0	—	N	A	2011
Mountain Creek	Edgefield County, Unincorporated Areas	Confluence with Turkey Creek	At Edgefield-Greenwood County Boundary	03060107	7.7	—	N	A	2011
Paces Branch	Edgefield County, Unincorporated Areas	At Edgefield-Aiken County Boundary	At Purley Lane	03050204	0.7	—	N	A	2011
Par Creek	Edgefield County, Unincorporated Areas	Confluence with Turkey Creek	Approximately 1,300 feet upstream Par Road	03060107	0.6	—	N	A	2011
Pike Branch	Edgefield County, Unincorporated Areas	Confluence with Turkey Creek	Approximately 600 feet upstream of L.R. White Road	03060107	3.0	—	N	A	2011
Quarles Creek	Edgefield County, Unincorporated Areas	Confluence with Horn Creek	Approximately 850 feet upstream of confluence with Horn Creek	03060107	0.2	—	N	A	2011

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Reedy Branch	Edgefield County, Unincorporated Areas	Confluence with Stevens Creek	0.4 miles upstream of confluence with Stevens Creek	03060107	0.4	—	N	A	2011
Rock Creek	Edgefield County, Unincorporated Areas	Confluence with Horn Creek	0.8 miles upstream of confluence with Horn Creek	03060107	0.8	—	N	A	2011
Rocky Creek	Edgefield County, Unincorporated Areas	Confluence with Turkey Creek	At Edgefield-McCormick County Boundary	03060107	9.1	—	N	A	2011
Rocky Creek East	Edgefield County, Unincorporated Areas	Confluence with Little Stevens Creek	At Edgefield-Saluda County Boundary	03060107	6.4	—	N	A	2011
Savannah River	Edgefield County, Unincorporated Areas	At Edgefield, SC-Aiken, SC-Richmond, GA County / State Boundary	Approximately 250 feet downstream of Augusta City Lock & Dam	03060106	2.2	—	Y	AE	2015
Savannah River	Edgefield County, Unincorporated Areas	Approximately 250 feet downstream of Augusta City Lock & Dam	At Edgefield, SC-McCormick, SC-Columbia, GA County / State Boundary	03060106	5.7	—	Y	AE	1994
Shaw Creek	Edgefield County, Unincorporated Areas	At Edgefield-Aiken County Boundary	1.8 miles upstream of Edgefield-Aiken County Boundary	03050204	1.8	—	N	A	2011
Sleepy Creek	Edgefield County, Unincorporated Areas	Confluence with Little Stevens Creek	At Edgefield-Saluda County Boundary	03060107	8.0	—	N	A	2011
South Fork Edisto River	Edgefield County, Unincorporated Areas	At Edgefield-Aiken County Boundary	1.5 miles upstream of Edgefield-Aiken County Boundary	03050204	1.5	—	N	A	2011

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Stevens Creek	Edgefield County, Unincorporated Areas	Confluence with Savannah River	Approximately 190 feet downstream of Woodlawn Road	03060107	4.9	—	Y	AE	2011
Stevens Creek	Edgefield County, Unincorporated Areas	Approximately 190 feet downstream of Woodlawn Road	Confluence of Turkey Creek	03060107	19.9	—	N	AE	2015
Stevens Creek Tributary 3	Edgefield County, Unincorporated Areas	Confluence with Stevens Creek	0.5 miles upstream of confluence with Stevens Creek	03060107	0.5	—	N	A	2011
Stevens Creek Tributary 4	Edgefield County, Unincorporated Areas	Confluence with Stevens Creek	0.7 miles upstream of confluence with Stevens Creek	03060107	0.7	—	N	A	2011
Stevens Creek Tributary 5	Edgefield County, Unincorporated Areas	Confluence with Stevens Creek	0.9 miles upstream of confluence with Stevens Creek	03060107	0.9	—	N	A	2011
Stevens Creek Tributary 6	Edgefield County, Unincorporated Areas	Confluence with Stevens Creek	0.4 miles upstream of confluence with Stevens Creek	03060107	0.4	—	N	A	2011
Stockman Branch	Edgefield County, Unincorporated Areas	Confluence with Rocky Creek	0.5 miles upstream of confluence with Rocky Creek	03060107	0.5	—	N	A	2011
Sweetwater Branch	Edgefield County, Unincorporated Areas	Confluence with Stevens Creek	0.5 miles upstream of Martintown Road	03060107	1.3	—	N	A	2011
Tobler Creek	Edgefield County, Unincorporated Areas	Confluence with Horn Creek	1.8 miles upstream of Old Stage Road	03060107	3.4	—	N	A	2011
Turkey Creek	Edgefield County, Unincorporated Areas	Confluence with Stevens Creek	0.7 miles upstream of Key Road	03060107	4.5	—	N	AE	2015

Table 2: Flooding Sources Included in this FIS Report, continued

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi ²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Turkey Creek	Edgefield County, Unincorporated Areas	0.7 miles upstream of Key Road	0.7 miles upstream of Weaver Road	03060107	31.7	—	N	A	2011
Williams Branch	Edgefield County, Unincorporated Areas	Confluence with Horn Creek	1.7 miles upstream of confluence with Horn Creek	03060107	1.7	—	N	A	2011

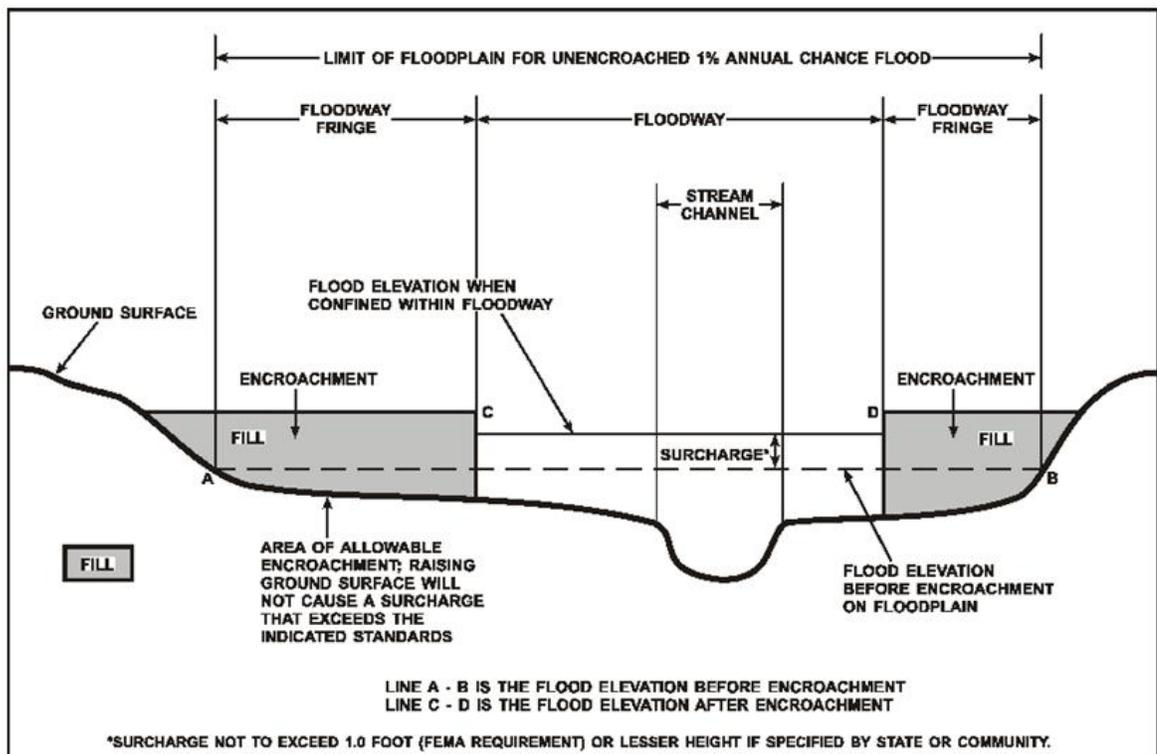
2.2 Floodways

Encroachment on floodplains, such as structures and fill, reduces flood-carrying capacity, increases flood heights and velocities, and increases flood hazards in areas beyond the encroachment itself. One aspect of floodplain management involves balancing the economic gain from floodplain development against the resulting increase in flood hazard.

For purposes of the NFIP, a floodway is used as a tool to assist local communities in balancing floodplain development against increasing flood hazard. With this approach, the area of the 1% annual chance floodplain on a river is divided into a floodway and a floodway fringe based on hydraulic modeling. The floodway is the channel of a stream, plus any adjacent floodplain areas, that must be kept free of encroachment in order to carry the 1% annual chance flood. The floodway fringe is the area between the floodway and the 1% annual chance floodplain boundaries where encroachment is permitted. The floodway must be wide enough so that the floodway fringe could be completely obstructed without increasing the water surface elevation of the 1% annual chance flood more than 1 foot at any point. Typical relationships between the floodway and the floodway fringe and their significance to floodplain development are shown in Figure 4.

To participate in the NFIP, Federal regulations require communities to limit increases caused by encroachment to 1.0 foot, provided that hazardous velocities are not produced. Regulations for South Carolina require communities in Edgefield County to limit increases caused by encroachment to 1.0 foot and several communities have adopted additional restrictions. The floodways in this project are presented to local agencies as minimum standards that can be adopted directly or that can be used as a basis for additional floodway projects.

Figure 4: Floodway Schematic



Floodway widths presented in this FIS Report and on the FIRM were computed at cross sections. Between cross sections, the floodway boundaries were interpolated. For certain stream segments, floodways were adjusted so that the amount of floodwaters conveyed on each side of the floodplain would be reduced equally. The results of the floodway computations have been tabulated for selected cross sections and are shown in Table 24, "Floodway Data."

All floodways that were developed for this Flood Risk Project are shown on the FIRM using the symbology described in Figure 3. In cases where the floodway and 1% annual chance floodplain boundaries are either close together or collinear, only the floodway boundary has been shown on the FIRM. For information about the delineation of floodways on the FIRM, refer to Section 6.3.

2.3 Base Flood Elevations

The hydraulic characteristics of flooding sources were analyzed to provide estimates of the elevations of floods of the selected recurrence intervals. The Base Flood Elevation (BFE) is the elevation of the 1% annual chance flood. These BFEs are most commonly rounded to the whole foot, as shown on the FIRM, but in certain circumstances or locations they may be rounded to 0.1 foot. Cross section lines shown on the FIRM may also be labeled with the BFE rounded to 0.1 foot. Whole-foot BFEs derived from engineering analyses that apply to coastal areas, areas of ponding, or other static areas with little elevation change may also be shown at selected intervals on the FIRM.

Cross sections with BFEs shown on the FIRM correspond to the cross sections shown in the Floodway Data table and Flood Profiles in this FIS Report. BFEs are primarily intended for flood insurance rating purposes. For construction and/or floodplain management purposes, users are cautioned to use the flood elevation data presented in this FIS Report in conjunction with the data shown on the FIRM.

2.4 Non-Encroachment Zones

Some States and communities use non-encroachment zones to manage floodplain development. For flooding sources with medium flood risk, field surveys are often not collected and surveyed bridge and culvert geometry is not developed. Standard hydrologic and hydraulic analyses are still performed to determine BFEs in these areas. However, floodways are not typically determined, since specific channel profiles are not developed. To assist communities with managing floodplain development in these areas, a "non-encroachment zone" may be provided. While not a FEMA designated floodway, the non-encroachment zone represents that area around the stream that should be reserved to convey the 1% annual chance flood event. As with a floodway, all surcharges must fall within the acceptable range in the non-encroachment zone.

General setbacks can be used in areas of lower risk (e.g. unnumbered Zone A), but these are not considered sufficient where unnumbered Zone A is replaced by Zone AE. The NFIP requires communities to ensure that any development in a non-encroachment area causes no increase in BFEs. Communities must generally prohibit development within the area defined by the non-encroachment width to meet the NFIP requirement. Regulations for South Carolina require communities in Edgefield County to limit increases caused by encroachment to 1.0 foot and several communities have adopted additional restrictions for non-encroachment areas.

Non-encroachment determinations may be delineated where it is not possible to delineate

floodways because specific channel profiles with bridge and culvert geometry were not developed. Any non-encroachment determinations for this Flood Risk Project have been tabulated for selected cross sections and are shown in Table 25, “Flood Hazard and Non-Encroachment Data for Selected Streams.” Areas for which non-encroachment zones are provided show BFEs and the 1% annual chance floodplain boundaries mapped as zone AE on the FIRM but no floodways.

2.5 Coastal Flood Hazard Areas

This section is not applicable to this Flood Risk Project.

2.5.1 Water Elevations and the Effects of Waves

This section is not applicable to this Flood Risk Project.

Figure 5: Wave Runup Transect Schematic

[Not Applicable to this Flood Risk Project]

2.5.2 Floodplain Boundaries and BFEs for Coastal Areas

This section is not applicable to this Flood Risk Project.

2.5.3 Coastal High Hazard Areas

This section is not applicable to this Flood Risk Project.

Figure 6: Coastal Transect Schematic

[Not Applicable to this Flood Risk Project]

2.5.4 Limit of Moderate Wave Action

This section is not applicable to this Flood Risk Project.

SECTION 3.0 – INSURANCE APPLICATIONS

3.1 National Flood Insurance Program Insurance Zones

For flood insurance applications, the FIRM designates flood insurance rate zones as described in Figure 3, “Map Legend for FIRM.” Flood insurance zone designations are assigned to flooding sources based on the results of the hydraulic or coastal analyses. Insurance agents use the zones shown on the FIRM and depths and base flood elevations in this FIS Report in conjunction with information on structures and their contents to assign premium rates for flood insurance policies.

The 1% annual chance floodplain boundary corresponds to the boundary of the areas of special flood hazards (e.g. Zones A, AE, V, VE, etc.), and the 0.2% annual chance floodplain boundary corresponds to the boundary of areas of additional flood hazards.

Table 3 lists the flood insurance zones in Edgefield County.

Table 3: Flood Zone Designations by Community

Community	Flood Zone(s)
Edgefield, Town of	A, X
Edgefield County, Unincorporated Areas	A, AE, X
Johnston, Town of	A, X
Trenton, Town of	X

3.2 Coastal Barrier Resources System

This section is not applicable to this Flood Risk Project.

Table 4: Coastal Barrier Resources System Information

[Not Applicable to this Flood Risk Project]

SECTION 4.0 – AREA STUDIED

4.1 Basin Description

Table 5 contains a description of the characteristics of the HUC-8 sub-basins within which each community falls. The table includes the main flooding sources within each basin, a brief description of the basin, and its drainage area.

Table 5: Basin Characteristics

HUC-8 Sub-Basin Name	HUC-8 Sub-Basin Number	Primary Flooding Source	Description of Affected Area	Drainage Area (square miles)
Saluda	03050109	Saluda River	Very minor portion along northeast county boundary	2,533
South Fork Edisto	03050204	South Fork Edisto River	Encompasses the east section of Edgefield County	872
Middle Savannah	03060106	Savannah River	Contains an area localized around the southwestern to southcentral county boundary	1,846
Stevens	03060107	Stevens Creek	Largest watershed within Edgefield County, covers the entirety of the north, west, and central regions, and extends into the south	740

4.2 Principal Flood Problems

Table 6 contains a description of the principal flood problems that have been noted for Edgefield County by flooding source.

Table 6: Principal Flood Problems

Flooding Source	Description of Flood Problems
All sources	Man-made obstructions or structures (bridges, culverts, buildings, etc.) inhibit flow as well as natural organics (trees, brush and associated debris).
All sources	<p>Major floods on small streams in Edgefield County occur as a result of tropical storms (hurricanes) or local thunderstorms.</p> <p>Large storms, which produce severe flooding in Edgefield County, usually occur during the winter or spring. These storms are usually of the frontal type, lasting two to four days and covering large areas. The summer storms generally consist of thunderstorms, which have high rainfall intensities and area scattered over small areas. In addition, the study area is vulnerable to hurricane and tropical storm activities. These storms usually occur from August through October and have produced some of the most severe floods in Edgefield County.</p>
All sources	<p>A notable storm occurring 26-27 September 1929, coming in the direction of Alabama from the west, had an estimated precipitation of eight inches in adjacent Aiken County.</p> <p>A notable tropical storm of record occurred soon after the above mentioned one, moving up from the south, had an estimated precipitation of seven inches in adjacent Aiken County, after having made landfall near Pensacola, Florida, on 30 September 1929.</p> <p>The two close storm events caused flooding in adjacent Aiken County with a registered reading of 46.3 feet at Savannah River Jefferson Davis Bridge, at Augusta, GA (USGS 02196670*). This reading represented a peak flow of 350,000 cubic feet per second (cfs). This value corresponds to a regulated peak flow, including the impacts of the Hartwell, J. Strom Thurmond (formerly Clarks Hill), and Richard B. Russell Reservoirs, of 252,000 cfs.</p> <p>* (This gage is often referred to as the Fifth Street gage since it is on the Fifth Street Bridge crossing the Savannah River.)</p>
All sources	A notable flooding event occurred on 6 May 2003, as a result of 2-4 inches of rainfall in the county. This flooding even caused the closure of many county roads and also resulted in the overtopping of several bridges by smaller streams (NOAA, 2009)
Fox Creek	Fox Creek is a principal flooding source in Edgefield County, and the City of North Augusta, extending into adjacent Aiken County.
Savannah River	Savannah River is a principal flooding source in Edgefield County.
Savannah River	<p>With the Hartwell, J. Strom Thurmond, and Richard B. Russell Reservoirs in place, the 1-percent-annual-chance regulated peak flow is computed to be 138,000 cfs at Savannah River at Augusta, GA (USGS 02197000*), which corresponds to a 1-percent-annual-chance unregulated peak flow of 277,000 cfs.</p> <p>* (This gage is often referred to as the Butler Creek gage since it is near the confluence of Butler Creek.)</p>

Table 7 contains information about historic flood elevations in the communities within Edgefield County.

Table 7: Historic Flooding Elevations

Flooding Source	Location	Historic Peak (Feet NAVD88)	Event Date	Approximate Recurrence Interval (years)	Source of Data
Savannah River	USGS Gage 02196670 Savannah River Jefferson Davis Bridge, at Augusta, GA	350,000 cfs; 46.3 feet (stage)	10/01/1929	N/A	USGS National Water Information System (NWIS)

4.3 Non-Levee Flood Protection Measures

Table 8 contains information about non-levee flood protection measures within Edgefield County such as dams, jetties, and or dikes. Levees are addressed in Section 4.4 of this FIS Report.

Table 8: Non-Levee Flood Protection Measures

Flooding Source	Structure Name	Type of Measure	Location	Description of Measure
Savannah River	Hartwell Dam (Hartwell Lake)	Hydroelectric Dam	On South Carolina -Georgia State Boundary near U.S. Highway 29	Main purposes include flood alleviation as well as electric power production
Savannah River	Richard B. Russell Dam (Richard B. Russell Lake)	Hydroelectric Dam	On South Carolina -Georgia State Boundary near Bobby Brown State Park Road near Town of Calhoun Falls, SC	Mainly for purposes of electric power production and recreation, but also intended for flood control and stream-flow regulation
Savannah River	J. Strom Thurmond Dam (J. Strom Thurmond Lake)	Hydroelectric Dam	On South Carolina -Georgia State Boundary on J. Strom Thurmond Highway near Augusta, GA	Main purposes include flood alleviation as well as electric power production

4.4 Levees

This section is not applicable to this Flood Risk Project.

Table 9: Levees

[Not Applicable to this Flood Risk Project]

SECTION 5.0 – ENGINEERING METHODS

For the flooding sources in the community, standard hydrologic and hydraulic study methods were used to determine the flood hazard data required for this study. Flood events of a magnitude that are expected to be equaled or exceeded at least once on the average during any 10-, 25-, 50-, 100-, or 500-year period (recurrence interval) have been selected as having special significance for floodplain management and for flood insurance rates. These events, commonly termed the 10-, 25-, 50-, 100-, and 500-year floods, have a 10-, 4-, 2-, 1-, and 0.2% annual chance, respectively, of being equaled or exceeded during any year.

Although the recurrence interval represents the long-term, average period between floods of a specific magnitude, rare floods could occur at short intervals or even within the same year. The risk of experiencing a rare flood increases when periods greater than 1 year are considered. For example, the risk of having a flood that equals or exceeds the 100-year flood (1-percent chance of annual exceedance) during the term of a 30-year mortgage is approximately 26 percent (about 3 in 10); for any 90-year period, the risk increases to approximately 60 percent (6 in 10). The analyses reported herein reflect flooding potentials based on conditions existing in the community at the time of completion of this study. Maps and flood elevations will be amended periodically to reflect future changes.

5.1 Hydrologic Analyses

Hydrologic analyses were carried out to establish the peak elevation-frequency relationships for floods of the selected recurrence intervals for each flooding source studied. Hydrologic analyses are typically performed at the watershed level. Depending on factors such as watershed size and shape, land use and urbanization, and natural or man-made storage, various models or methodologies may be applied. A summary of the hydrologic methods applied to develop the discharges used in the hydraulic analyses for each stream is provided in Table 13. Greater detail (including assumptions, analysis, and results) is available in the archived project documentation.

A summary of the discharges is provided in Table 10. Frequency Discharge-Drainage Area Curves used to develop the hydrologic models may also be shown in Figure 7 for selected flooding sources. A summary of stillwater elevations developed for non-coastal flooding sources is provided in Table 11. (Coastal stillwater elevations are discussed in Section 5.3 and shown in Table 17.) Stream gage information is provided in Table 12.

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Cheves Creek	At confluence with Stevens Creek	38.56	2,581	3,346	3,998	4,585	6,065
Cheves Creek	Immediately upstream of confluence of Dry Branch	26.85	1,722	2,241	2,673	3,068	4,064
Cheves Creek	0.6 miles downstream of confluence of Burkhalter Branch	23.44	1,449	1,887	2,248	2,580	3,419
Cheves Creek	Immediately upstream of confluence of Burkhalter Branch	17.80	975	1,272	1,511	1,733	2,296
Cheves Creek	Approximately 410 feet downstream of Jacob McKie Road	9.17	712	934	1,115	1,284	1,710
Cheves Creek	0.9 miles downstream of confluence of Spring Branch	6.76	536	704	840	968	1,290
Cheves Creek	Immediately upstream of confluence of Canaan Branch	0.86	236	317	386	452	618
Fox Creek	At mouth	14.67	2,559	*	4,030	4,749	13,888
Horn Creek	At confluence with Stevens Creek	78.28	5,352	6,886	8,239	9,426	12,401
Horn Creek	Approximately 610 feet downstream of confluence of Dry Creek	54.98	4,123	5,324	6,378	7,311	9,652
Horn Creek	Immediately upstream of confluence of Cedar Creek	27.23	2,291	2,980	3,574	4,109	5,457

Table 10: Summary of Discharges, continued

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Horn Creek	Immediately upstream of confluence of Tobler Creek	15.54	1,348	1,763	2,113	2,433	3,240
Horn Creek	Approximately 920 feet upstream of Old Stage Road	10.92	971	1,273	1,525	1,758	2,345
Horn Creek	At Yarborough Road	4.08	629	833	1,006	1,168	1,575
Savannah River	At confluence of Stevens Creek	7,173	44,000	*	75,000	102,000	193,000
Savannah River	Approximately 2.2 miles upstream of Interstate-20	7,150	56,933	77,593	98,063	131,385	249,441
Stevens Creek	At confluence with Savannah River	739.9	22,794	*	32,333	36,465	46,068
Stevens Creek	At Woodlawn Road	721.4	23,505	29,320	34,166	38,457	48,803
Stevens Creek	Immediately downstream of confluence of Turkey Creek	535.7	21,896	27,224	31,172	34,951	43,583
Stevens Creek	Immediately upstream of confluence of Turkey Creek	249.0	11,981	15,210	18,103	20,576	26,730
Turkey Creek	At confluence with Stevens Creek	285.6	12,218	15,502	18,418	20,917	27,147

* Not calculated for this Flood Risk Project

Figure 7: Frequency Discharge-Drainage Area Curves

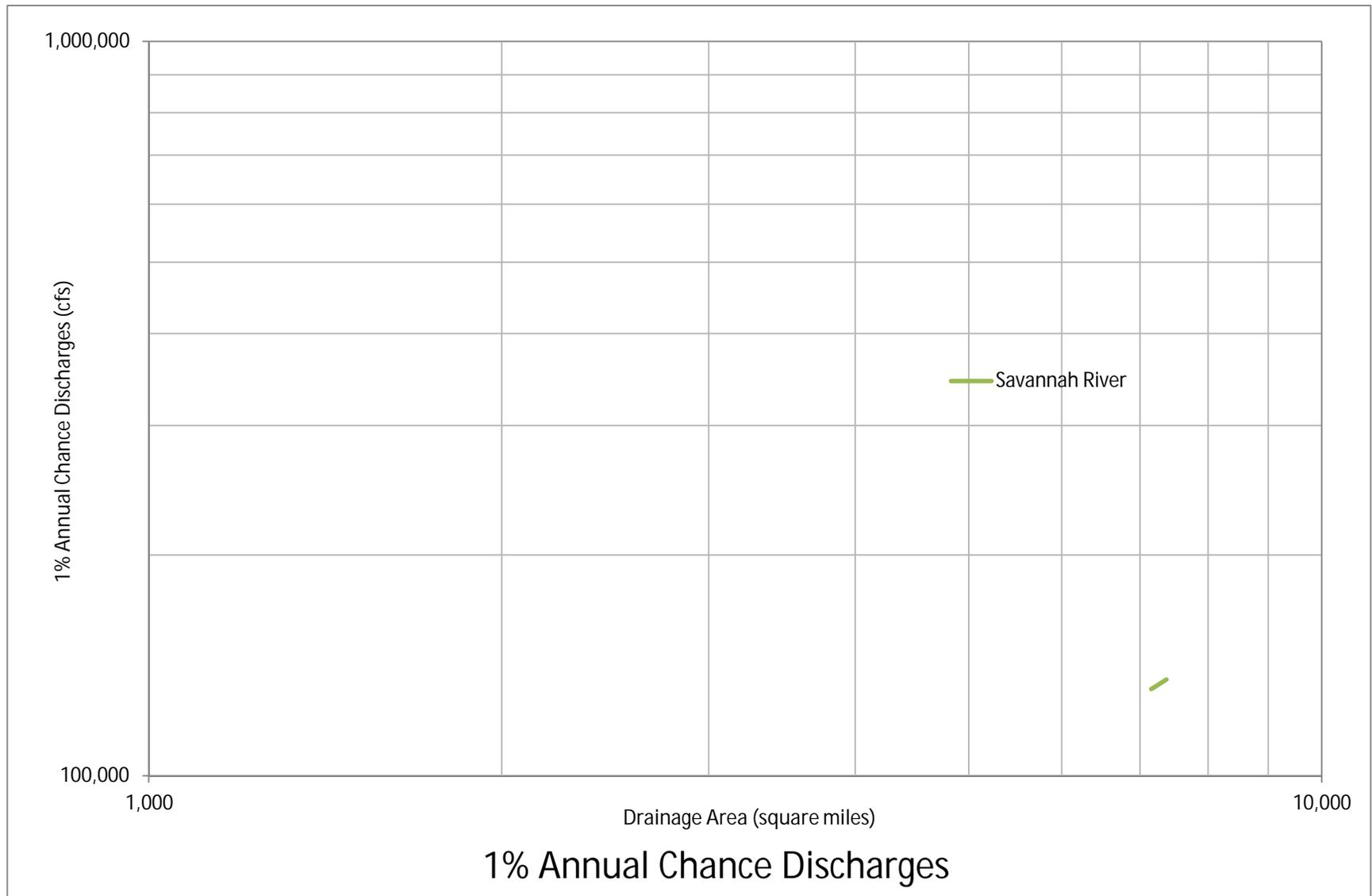


Table 11: Summary of Non-Coastal Stillwater Elevations

[Not Applicable to this Flood Risk Project]

Table 12: Stream Gage Information used to Determine Discharges

Flooding Source	Gage Identifier	Agency that Maintains Gage	Site Name	Drainage Area (Square Miles)	Period of Record	
					From	To
Savannah River	02197000	USGS	Savannah River at Augusta, GA	7,510	1896	1950
Stevens Creek	02196000	USGS	Stevens Creek Near Modoc, SC	545	02/14/1940	12/31/2013

5.2 Hydraulic Analyses

Analyses of the hydraulic characteristics of flooding from the sources studied were carried out to provide estimates of the elevations of floods of the selected recurrence intervals. Base flood elevations on the FIRM represent the elevations shown on the Flood Profiles and in the Floodway Data tables in the FIS Report. Rounded whole-foot elevations may be shown on the FIRM in coastal areas, areas of ponding, and other areas with static base flood elevations. These whole-foot elevations may not exactly reflect the elevations derived from the hydraulic analyses. Flood elevations shown on the FIRM are primarily intended for flood insurance rating purposes. For construction and/or floodplain management purposes, users are cautioned to use the flood elevation data presented in this FIS Report in conjunction with the data shown on the FIRM. The hydraulic analyses for this FIS were based on unobstructed flow. The flood elevations shown on the profiles are thus considered valid only if hydraulic structures remain unobstructed, operate properly, and do not fail.

For streams for which hydraulic analyses were based on cross sections, locations of selected cross sections are shown on the Flood Profiles (Exhibit 1). For stream segments for which a floodway was computed (Section 6.3), selected cross sections are also listed on Table 24, "Floodway Data."

A summary of the methods used in hydraulic analyses performed for this project is provided in Table 13. Roughness coefficients are provided in Table 14. Roughness coefficients are values representing the frictional resistance water experiences when passing overland or through a channel. They are used in the calculations to determine water surface elevations. Greater detail (including assumptions, analysis, and results) is available in the archived project documentation.

Table 13: Summary of Hydrologic and Hydraulic Analyses

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Academy Branch	Confluence with Beaverdam Creek	0.5 miles upstream of Wells Road	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Academy Branch Tributary 1	Confluence with Academy Branch	Approximately 1,200 feet upstream of Macedonia Street	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Academy Branch Tributary 2	Confluence with Academy Branch	0.4 miles upstream of confluence with Academy Branch	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Beaverdam Creek	Confluence with Turkey Creek	0.8 miles upstream of Star Road	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Beaverdam Creek Tributary 1	Confluence with Beaverdam Creek	Approximately 700 feet upstream of Bauskett Street	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Beaverdam Creek Tributary 2	Confluence with Beaverdam Creek	0.3 miles upsteam of confluence with Beaverdam Creek	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Beaverdam Creek Tributary 3	Confluence with Beaverdam Creek	Approximately 650 feet upstream of Main Street	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Beaverdam Creek Tributary 4	Confluence with Beaverdam Creek	At Parker Road	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Beaverdam Creek Tributary 4-1	Confluence with Beaverdam Creek Tributary 4	At Star Road	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Beech Creek	Confluence with South Fork Edisto River	0.9 miles upstream of confluence with South Fork Edisto River	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Bell Branch	Confluence with Mountain Creek	0.3 miles upstream of confluence with Mountain Creek	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Big Creek	Confluence with Horn Creek	1.0 miles upstream of confluence with Horn Creek	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Bliss Creek	Confluence with Little Stevens Creek	1.0 miles upstream of Highway 378	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Buzzard Branch	Confluence with Cuffey Branch	0.6 miles upstream of confluence with Cuffey Branch	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Cedar Creek	Confluence with Horn Creek	0.8 miles upstream of Hunters Run	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Cheves Creek	Confluence with Stevens Creek	3.9 miles upstream of Jacob McKie Road	2006 Rural South Carolina Regression Equations	HEC-RAS 4.1.0	06/24/2015	AE	
Cheves Creek Tributary 1	Confluence with Cheves Creek	0.5 miles upstream of confluence with Cheves Creek	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Crooked Run	Confluence with Turkey Creek	1.7 miles upstream of Walker Road	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Cyper Creek	Confluence with Turkey Creek	Approximately 320 feet upstream of Sandrock Road	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Cuffey Branch	Confluence with Stevens Creek	0.8 miles upstream of confluence with Stevens Creek	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Double Branches	Confluence with Stevens Creek	0.9 miles upstream of confluence with Stevens Creek	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Dry Branch	Confluence with Cheves Creek	2.3 miles upstream of Dry Bridge Road	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Dry Creek	Confluence with Horn Creek	Approximately 1,200 feet downstream of Lanham Road	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Dunn Creek	Confluence with Log Creek	0.4 miles upstream of Moores Drive	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Fox Creek	Confluence with Savannah River	At Edgefield-Aiken County Boundary	HEC-1	HEC-2	02/01/1978	AE w/ Floodway	
Gilroy Branch	Confluence with Horn Creek	0.8 miles upstream of confluence with Horn Creek	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Goff Branch	Confluence with Turkey Creek	0.7 miles upstream of confluence with Turkey Creek	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Grandpa Creek	Confluence with Cedar Creek	0.6 miles upstream of confluence with Cedar Creek	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Gundy Creek	Confluence with Stevens Creek	Approximately 1,100 feet upstream of Recoletta Drive	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Horn Creek	Confluence with Stevens Creek	0.5 miles upstream of Yarborough Road	2006 Rural South Carolina Regression Equations	HEC-RAS 4.1.0	06/24/2015	AE	
Hunters Creek	Confluence with Cedar Creek	0.9 miles upstream of confluence with Cedar Creek	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Jim Branch	Confluence with Turkey Creek	Approximately 1,600 feet upstream of confluence with Turkey Creek	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Jimmy Creek	Confluence with Long Cane Creek	1.3 miles upstream of Jimmy Road	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Lick Fork	Confluence with Horn Creek	1.7 miles upstream of Lick Fork Road	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Little Mountain Creek	Confluence with Mountain Creek	0.9 miles upstream of Virgil Wall Road	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Little Stevens Creek	Confluence with Turkey Creek	0.4 miles upstream of Unnamed Road	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Little Stevens Creek Tributary 1	Confluence with Little Stevens Creek	Approximately 1,300 feet upstream of Unnamed Road	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Little Turkey Creek	Confluence with Turkey Creek	1.1 miles upstream of Weaver Road	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Little Turkey Creek Tributary 1	Confluence with Little Turkey Creek	At Ridge Road	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Lloyd Creek	Confluence with Stevens Creek	0.4 miles upstream of Key Road	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Log Creek	Confluence with Turkey Creek	Approximately 460 feet upstream of Country Club Drive	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Long Cane Creek	Confluence with Little Stevens Creek	1.4 miles upstream of confluence with Little Stevens Creek	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Mountain Creek	Confluence with Turkey Creek	At Edgefield- Greenwood County Boundary	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Paces Branch	At Edgefield-Aiken County Boundary	At Purley Lane	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Par Creek	Confluence with Turkey Creek	Approximately 1,300 feet upstream Par Road	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Pike Branch	Confluence with Turkey Creek	Approximately 600 feet upstream of L.R. White Road	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Quarles Creek	Confluence with Horn Creek	Approximately 850 feet upstream of confluence with Horn Creek	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Reedy Branch	Confluence with Stevens Creek	0.4 miles upstream of confluence with Stevens Creek	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Rock Creek	Confluence with Horn Creek	0.8 miles upstream of confluence with Horn Creek	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Rocky Creek	Confluence with Turkey Creek	At Edgefield- McCormick County Boundary	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Rocky Creek East	Confluence with Little Stevens Creek	At Edgefield- Saluda County Boundary	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Savannah River	At Edgefield, SC- Aiken, SC- Richmond, GA County / State Boundary	Approximately 250 feet downstream of Augusta City Lock & Dam	Log-Pearson Type III Analysis	HEC-RAS 4.1.0	06/24/2015	AE w/ Floodway	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Savannah River	Approximately 250 feet downstream of Augusta City Lock & Dam	At Edgefield, SC-McCormick, SC-Columbia, GA County / State Boundary	Flood Frequency Analysis	HEC-2	02/01/1994	AE w/ Floodway	Special report for Savannah River discharges, USGS WRIR 90-4024 (USGS, 1990), and appeal through FEMA (FEMA, 1994c). HEC-2 procedures (GDOT 1988, Seaboard, 1976, USACE, 1959, 1974, 1988, 1991a-b)
Shaw Creek	At Edgefield-Aiken County Boundary	1.8 miles upstream of Edgefield-Aiken County Boundary	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Sleepy Creek	Confluence with Little Stevens Creek	At Edgefield-Saluda County Boundary	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
South Fork Edisto River	At Edgefield-Aiken County Boundary	1.5 miles upstream of Edgefield-Aiken County Boundary	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Stevens Creek	Confluence with Savannah River	Approximately 190 feet downstream of Woodlawn Road	Log-Pearson Type III Analysis	HEC-RAS 3.1.3	03/03/2011	AE w/ Floodway	Analyses conducted using PeakFQ program (USGS, 2006a-b) with weighted skew from USGS WRIR 02-4140 (USGS, 2002)
Stevens Creek	Approximately 190 feet downstream of Woodlawn Road	Confluence of Turkey Creek	2006 Rural South Carolina Regression Equations	HEC-RAS 4.1.0	06/24/2015	AE	
Stevens Creek Tributary 3	Confluence with Stevens Creek	0.5 miles upstream of confluence with Stevens Creek	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Stevens Creek Tributary 4	Confluence with Stevens Creek	0.7 miles upstream of confluence with Stevens Creek	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Stevens Creek Tributary 5	Confluence with Stevens Creek	0.9 miles upstream of confluence with Stevens Creek	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	

Table 13: Summary of Hydrologic and Hydraulic Analyses, continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Stevens Creek Tributary 6	Confluence with Stevens Creek	0.4 miles upstream of confluence with Stevens Creek	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Stockman Branch	Confluence with Rocky Creek	0.5 miles upstream of confluence with Rocky Creek	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Sweetwater Branch	Confluence with Stevens Creek	0.5 miles upstream of Martintown Road	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Tobler Creek	Confluence with Horn Creek	1.8 miles upstream of Old Stage Road	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Turkey Creek	Confluence with Stevens Creek	Approximately 0.7 miles upstream of Key Road	2006 Rural South Carolina Regression Equations	HEC-RAS 4.1.0	06/24/2015	AE	
Turkey Creek	0.7 miles upstream of Key Road	0.7 miles upstream of Weaver Road	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	
Williams Branch	Confluence with Horn Creek	1.7 miles upstream of confluence with Horn Creek	1999 Rural South Carolina Regression Equations	HEC-RAS 3.1.3	03/03/2011	A	

Table 14: Roughness Coefficients

Flooding Source	Channel “n”	Overbank “n”
Cheves Creek	0.040-0.055	0.040-0.150
Horn Creek	0.046-0.053	0.060-0.150
Savannah River (2015)	0.024-0.045	0.035-0.160
Savannah River (1994)	0.031-0.033	0.100
Stevens Creek (2015)	0.040-0.050	0.035-0.155
Stevens Creek (2011)	0.030-0.055	0.030-0.100
Turkey Creek	0.042-0.052	0.110-0.150

5.3 Coastal Analyses

This section is not applicable to this Flood Risk Project.

Table 15: Summary of Coastal Analyses

[Not Applicable to this Flood Risk Project]

5.3.1 Total Stillwater Elevations

This section is not applicable to this Flood Risk Project.

Figure 8: 1% Annual Chance Total Stillwater Elevations for Coastal Areas

[Not Applicable to this Flood Risk Project]

Table 16: Tide Gage Analysis Specifics

[Not Applicable to this Flood Risk Project]

5.3.2 Waves

This section is not applicable to this Flood Risk Project.

5.3.3 Coastal Erosion

This section is not applicable to this Flood Risk Project.

5.3.4 Wave Hazard Analyses

This section is not applicable to this Flood Risk Project.

Table 17: Coastal Transect Parameters

[Not Applicable to this Flood Risk Project]

Figure 9: Transect Location Map

[Not Applicable to this Flood Risk Project]

5.4 Alluvial Fan Analyses

This section is not applicable to this Flood Risk Project.

Table 18: Summary of Alluvial Fan Analyses

[Not Applicable to this Flood Risk Project]

Table 19: Results of Alluvial Fan Analyses

[Not Applicable to this Flood Risk Project]

SECTION 6.0 – MAPPING METHODS

6.1 Vertical and Horizontal Control

All FIS Reports and FIRMs are referenced to a specific vertical datum. The vertical datum provides a starting point against which flood, ground, and structure elevations can be referenced and compared. Until recently, the standard vertical datum used for newly created or revised FIS Reports and FIRMs was the National Geodetic Vertical Datum of 1929 (NGVD29). With the completion of the North American Vertical Datum of 1988 (NAVD88), many FIS Reports and FIRMs are now prepared using NAVD88 as the referenced vertical datum.

Flood elevations shown in this FIS Report and on the FIRMs are referenced to NAVD88. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between NGVD29 and NAVD88 or other datum conversion, visit the National Geodetic Survey website at www.ngs.noaa.gov, or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, N/NGS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

Temporary vertical monuments are often established during the preparation of a flood hazard analysis for the purpose of establishing local vertical control. Although these monuments are not shown on the FIRM, they may be found in the archived project documentation associated with the FIS Report and the FIRMs for this community. Interested individuals may contact FEMA to access these data.

To obtain current elevation, description, and/or location information for benchmarks in the area, please contact information services Branch of the NGS at (301) 713-3242, or visit their website at www.ngs.noaa.gov.

The datum conversion locations and values that were calculated for Edgefield County are provided in Table 20.

Table 20: Countywide Vertical Datum Conversion

Quadrangle Name	Quadrangle Corner	Latitude	Longitude	Conversion from NGVD29 to NAVD88 (feet)
Kirksey	SE	34.000	-82.000	-0.614
Good Hope	SE	34.000	-81.875	-0.650
Winterseat	SE	33.875	-82.125	-0.650
Limestone	SE	33.875	-82.000	-0.663
Owdoms	SE	33.875	-81.875	-0.682
Saluda South	SE	33.875	-81.750	-0.702
Parksville	SE	33.750	-82.125	-0.705
Red Hill	SE	33.750	-82.000	-0.722
Edgefield	SE	33.750	-81.875	-0.709
Johnston	SE	33.750	-81.750	-0.725
Clarks Hill	SE	33.625	-82.125	-0.732
Colliers	SE	33.625	-82.000	-0.735
Ropers Crossroads	SE	33.625	-81.875	-0.725
Martinez	SE	33.500	-82.000	-0.761
Average Conversion from NGVD29 to NAVD88 = -0.698 feet				

Table 21: Stream-Based Vertical Datum Conversion

[Not Applicable to this Flood Risk Project]

6.2 Base Map

The FIRMs and FIS Report for this project have been produced in a digital format. The flood hazard information was converted to a Geographic Information System (GIS) format that meets FEMA’s FIRM database specifications and geographic information standards. This information is provided in a digital format so that it can be incorporated into a local GIS and be accessed more easily by the community. The FIRM Database includes most of the tabular information contained in the FIS Report in such a way that the data can be associated with pertinent spatial features. For example, the information contained in the Floodway Data table and Flood Profiles can be linked to the cross sections that are shown on the FIRMs. Additional information about the FIRM Database and its contents can be found in FEMA’s *Guidelines and Standards for Flood Risk Analysis and Mapping*, www.fema.gov/guidelines-and-standards-flood-risk-analysis-and-mapping.

Base map information shown on the FIRM was derived from the sources described in Table 22.

Table 22: Base Map Sources

Data Type	Data Provider	Data Date	Data Scale	Data Description
Benchmarks	NFHL	2011	1:12,000	Benchmarks located using NFHL
Benchmarks	NOAA, NGS	2004	N/A	Benchmarks located using NGS data
General Structures	NFHL	2011	1:12,000	Major and significant NFHL recorded structures
Political Boundaries	NFHL	2011	1:12,000	Municipal and county boundaries
Surface Water Features	NFHL	2011	1:12,000	Streams, rivers, and lakes were derived from NFHL data
Surface Water Features	National Hydrography Dataset (NHD)	2008	N/A	Streams, rivers, and lakes were derived from NHD data
Surface Water Features	University of South Carolina (USC) GIS Data Server	2009	N/A	Lakes were derived from USC GIS data
Surface Water Features	South Carolina Department of Natural Resources (SCDNR)	2009	1:24,000	Streams, and rivers were derived from SCDNR data
Transportation Features	TIGER	2014	1:12,000	Roads and railroads, were derived from TIGER data
Transportation Features	University of South Carolina (USC) GIS Data Server	2009	N/A	Roads and railroads, were derived from USC GIS data

6.3 Floodplain and Floodway Delineation

The FIRM shows tints, screens, and symbols to indicate floodplains and floodways as well as the locations of selected cross sections used in the hydraulic analyses and floodway computations.

For riverine flooding sources, the mapped floodplain boundaries shown on the FIRM have been delineated using the flood elevations determined at each cross section; between cross sections, the boundaries were interpolated using the topographic elevation data described in Table 23. In ponding areas, flood elevations were determined at each junction of the model; between junctions, boundaries were interpolated using the topographic elevation data described in Table 23.

In cases where the 1% and 0.2% annual chance floodplain boundaries are close together, only the

1% annual chance floodplain boundary has been shown. Small areas within the floodplain boundaries may lie above the flood elevations but cannot be shown due to limitations of the map scale and/or lack of detailed topographic data.

The floodway widths presented in this FIS Report and on the FIRM were computed for certain stream segments on the basis of equal conveyance reduction from each side of the floodplain. Floodway widths were computed at cross sections. Between cross sections, the floodway boundaries were interpolated. Table 2 indicates the flooding sources for which floodways have been determined. The results of the floodway computations for those flooding sources have been tabulated for selected cross sections and are shown in Table 24, “Floodway Data.”

Certain flooding sources may have been studied that do not have published BFEs on the FIRMs, or for which there is a need to report the 1% annual chance flood elevations at selected cross sections because a published Flood Profile does not exist in this FIS Report. These streams may have also been studied using methods to determine non-encroachment zones rather than floodways. For these flooding sources, the 1% annual chance floodplain boundaries have been delineated using the flood elevations determined at each cross section; between cross sections, the boundaries were interpolated using the topographic elevation data described in Table 23. All topographic data used for modeling or mapping has been converted as necessary to NAVD88. The 1% annual chance elevations for selected cross sections along these flooding sources, along with their non-encroachment widths, if calculated, are shown in Table 25, “Flood Hazard and Non-Encroachment Data for Selected Streams.”

Table 23: Summary of Topographic Elevation Data used in Mapping

Community	Flooding Source	Source for Topographic Elevation Data					
		Description	Scale	Contour Interval	RMSE _z	Accuracy _z	Citation
Edgefield County (Unincorporated Areas)	Cheves Creek, Horn Creek, Savannah River, Stevens Creek, Turkey Creek	Light Detection and Ranging data (LiDAR)	1 m	5 ft	15 cm	29.4 cm	Towill, Inc., 2012
Edgefield County And Incorporated Areas	All within HUC 03050204, 03060106, 03060107	USGS Quad Topographic Maps	1:24,000	10 ft	N/A	N/A	USGS, 1971(a-b), 1980(a-b), 1981, 1982(a-c)

BFEs shown at cross sections on the FIRM represent the 1% annual chance water surface elevations shown on the Flood Profiles and in the Floodway Data tables in the FIS Report. Rounded whole-foot elevations may be shown on the FIRM in coastal areas, areas of ponding, and other areas with static base flood elevations.

Table 24: Floodway Data

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,800	78	458	10.4	150.3	150.3	151.3	1.0

¹ Feet above confluence with Savannah River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
 EDGEFIELD COUNTY, SOUTH CAROLINA
 AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: FOX CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH ² (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	205.87	538 / 957	13,719	9.6	148.7	148.7	148.8	0.1
B	206.34	279 / 1,631	24,179	5.4	151.8	151.8	151.9	0.1
C	206.91	557 / 1,109	17,508	7.5	153.1	153.1	153.2	0.1
D	207.20	490 / 1,131	18,584	7.1	154.4	154.4	154.5	0.1
E	207.78	524 / 1,780	24,266	5.7	165.9	165.9	165.9	0.0
F	208.85	2,126 / 2,640	31,586	3.2	190.8	190.8	190.8	0.0
G	209.74	1,323 / 2,730	27,174	3.8	191.8	191.8	191.8	0.0
H	210.87	2,068 / 2,941	34,488	3.0	192.9	192.9	192.9	0.0
I	211.63	2,639 / 3,130	34,300	3.0	193.4	193.4	193.4	0.0
J	212.27	2,038 / 2,600	28,097	3.6	193.8	193.8	193.8	0.0
K	212.83	574 / 1,055	20,282	5.0	194.5	194.5	194.6	0.1

¹ Miles above confluence with Atlantic Ocean

² Width within Edgefield County / total floodway width

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
EDGEFIELD COUNTY, SOUTH CAROLINA
AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: SAVANNAH RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	4,689	674	15,278	2.4	190.8	190.0 ²	190.1	0.1
B	6,424	634	13,086	2.8	190.8	190.0 ²	190.1	0.1
C	9,018	494	9,756	3.7	190.8	190.0 ²	190.1	0.1
D	11,031	588	11,820	3.1	190.8	190.1 ²	190.2	0.1
E	13,739	427	8,627	4.2	190.8	190.1 ²	190.2	0.1
F	15,137	474	7,948	4.6	190.8	190.2 ²	190.3	0.1
G	16,561	559	9,318	3.9	190.8	190.4 ²	190.5	0.1
H	19,037	379	6,654	5.5	190.8	190.6 ²	190.6	0.0
I	21,109	549	6,986	5.2	190.8	190.7 ²	190.8	0.1
J	22,611	262	5,293	6.9	190.9	190.9	191.0	0.1
K	25,619	299	4,890	7.5	191.2	191.2	191.3	0.1

¹ Feet above confluence with Savannah River

² Elevation computed without consideration of backwater effects from Savannah River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
EDGEFIELD COUNTY, SOUTH CAROLINA
AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: STEVENS CREEK

Non-encroachment areas may be delineated where it is not possible to delineate floodways because specific channel profiles with bridge and culvert geometry were not developed. Any non-encroachment determinations for this Flood Risk Project have been tabulated for selected cross sections and are shown in Table 25. The non-encroachment width indicates the measured distance left and right (looking downstream) from the mapped center of the stream to the non-encroachment boundary based on a surcharge of 1.0 foot or less.

Table 25: Flood Hazard and Non-Encroachment Data for Selected Streams

Flooding Source ¹	Cross Section	Stream Station ²	1% Annual Chance Flood Discharge (cfs)	1% Annual Chance Water Surface Elevation (feet NAVD88)	Non-Encroachment Width (feet)	
					Left	Right
Cheves Creek	002	151	4,585	200.5 ³	N/A	N/A
Cheves Creek	004	358	4,585	200.5 ³	N/A	N/A
Cheves Creek	005	478	4,585	200.5 ³	N/A	N/A
Cheves Creek	005	500	4,585	200.5 ³	N/A	N/A
Cheves Creek	006	593	4,585	200.5 ³	N/A	N/A
Cheves Creek	011	1,118	4,585	200.5 ³	N/A	N/A
Cheves Creek	015	1,500	4,585	200.5 ³	N/A	N/A
Cheves Creek	020	2,000	4,585	200.5 ³	N/A	N/A
Cheves Creek	025	2,500	4,585	200.5 ³	N/A	N/A
Cheves Creek	028	2,758	4,585	200.5 ³	N/A	N/A
Cheves Creek	030	3,000	4,585	200.5 ³	N/A	N/A
Cheves Creek	035	3,500	4,585	200.5 ³	N/A	N/A
Cheves Creek	040	4,000	3,068	200.5 ³	N/A	N/A
Cheves Creek	045	4,500	3,068	200.5 ³	N/A	N/A
Cheves Creek	050	5,000	3,068	200.5 ³	N/A	N/A
Cheves Creek	055	5,500	3,068	201.0	N/A	N/A
Cheves Creek	058	5,757	3,068	202.2	N/A	N/A
Cheves Creek	061	6,126	3,068	203.9	N/A	N/A
Cheves Creek	065	6,500	3,053	205.0	N/A	N/A
Cheves Creek	067	6,732	3,053	205.5	N/A	N/A
Cheves Creek	070	7,000	3,053	205.9	N/A	N/A
Cheves Creek	072	7,226	3,053	206.2	N/A	N/A
Cheves Creek	075	7,500	3,053	207.3	N/A	N/A
Cheves Creek	080	8,000	3,053	208.7	N/A	N/A
Cheves Creek	083	8,349	3,053	209.3	N/A	N/A
Cheves Creek	087	8,718	3,053	209.9	N/A	N/A
Cheves Creek	090	9,000	3,053	210.4	N/A	N/A
Cheves Creek	092	9,207	3,053	210.6	N/A	N/A
Cheves Creek	095	9,500	3,053	211.3	N/A	N/A
Cheves Creek	097	9,738	3,053	211.8	N/A	N/A
Cheves Creek	100	10,000	3,053	212.9	N/A	N/A
Cheves Creek	103	10,296	3,053	214.1	N/A	N/A
Cheves Creek	106	10,550	3,053	214.7	N/A	N/A
Cheves Creek	107	10,704	3,053	214.7	N/A	N/A
Cheves Creek	110	11,000	3,053	215.7	N/A	N/A
Cheves Creek	114	11,444	3,053	216.9	N/A	N/A

Table 25: Flood Hazard and Non-Encroachment Data for Selected Streams, continued

Flooding Source ¹	Cross Section	Stream Station ²	1% Annual Chance Flood Discharge (cfs)	1% Annual Chance Water Surface Elevation (feet NAVD88)	Non-Encroachment Width (feet)	
					Left	Right
Cheves Creek	117	11,709	3,053	217.7	N/A	N/A
Cheves Creek	120	12,000	2,853	218.1	N/A	N/A
Cheves Creek	125	12,454	2,853	218.8	N/A	N/A
Cheves Creek	130	13,000	2,853	219.2	N/A	N/A
Cheves Creek	135	13,500	2,853	219.3	N/A	N/A
Cheves Creek	140	14,000	2,853	220.0	N/A	N/A
Cheves Creek	143	14,293	2,853	220.9	N/A	N/A
Cheves Creek	145	14,500	2,853	221.4	N/A	N/A
Cheves Creek	148	14,779	2,853	222.0	N/A	N/A
Cheves Creek	150	15,000	2,853	222.4	N/A	N/A
Cheves Creek	152	15,243	2,853	222.9	N/A	N/A
Cheves Creek	155	15,500	2,853	223.9	N/A	N/A
Cheves Creek	158	15,755	2,814	224.5	N/A	N/A
Cheves Creek	160	16,000	2,814	225.2	N/A	N/A
Cheves Creek	162	16,164	2,814	225.8	N/A	N/A
Cheves Creek	165	16,500	2,814	226.6	N/A	N/A
Cheves Creek	168	16,775	2,814	226.8	N/A	N/A
Cheves Creek	168	16,822	2,814	226.8	N/A	N/A
Cheves Creek	171	17,104	2,814	227.2	N/A	N/A
Cheves Creek	175	17,500	2,814	228.1	N/A	N/A
Cheves Creek	179	17,932	2,814	228.8	N/A	N/A
Cheves Creek	183	18,253	2,814	229.5	N/A	N/A
Cheves Creek	185	18,500	2,814	230.1	N/A	N/A
Cheves Creek	188	18,847	2,814	231.1	N/A	N/A
Cheves Creek	193	19,261	2,814	232.1	N/A	N/A
Cheves Creek	196	19,581	2,814	232.5	N/A	N/A
Cheves Creek	200	20,000	2,814	233.9	N/A	N/A
Cheves Creek	205	20,500	2,814	235.4	N/A	N/A
Cheves Creek	210	21,000	2,753	235.9	N/A	N/A
Cheves Creek	215	21,500	2,753	236.7	N/A	N/A
Cheves Creek	220	22,000	2,753	237.3	N/A	N/A
Cheves Creek	223	22,257	2,753	237.5	N/A	N/A
Cheves Creek	225	22,500	2,753	237.8	N/A	N/A
Cheves Creek	229	22,850	2,753	238.5	N/A	N/A
Cheves Creek	231	23,068	2,753	238.8	N/A	N/A
Cheves Creek	233	23,303	2,753	239.7	N/A	N/A
Cheves Creek	235	23,500	2,753	240.0	N/A	N/A
Cheves Creek	240	24,000	2,753	241.2	N/A	N/A
Cheves Creek	243	24,315	2,753	241.5	N/A	N/A
Cheves Creek	246	24,625	2,753	242.5	N/A	N/A
Cheves Creek	250	25,000	2,753	243.3	N/A	N/A
Cheves Creek	255	25,500	2,753	244.1	N/A	N/A
Cheves Creek	260	26,000	2,753	245.4	N/A	N/A
Cheves Creek	264	26,369	2,753	247.2	N/A	N/A

Table 25: Flood Hazard and Non-Encroachment Data for Selected Streams, continued

Flooding Source ¹	Cross Section	Stream Station ²	1% Annual Chance Flood Discharge (cfs)	1% Annual Chance Water Surface Elevation (feet NAVD88)	Non-Encroachment Width (feet)	
					Left	Right
Cheves Creek	268	26,804	2,580	248.9	N/A	N/A
Cheves Creek	272	27,158	2,580	249.7	N/A	N/A
Cheves Creek	275	27,453	2,580	250.1	N/A	N/A
Cheves Creek	278	27,785	2,580	250.6	N/A	N/A
Cheves Creek	282	28,214	2,580	251.3	N/A	N/A
Cheves Creek	285	28,500	2,580	251.7	N/A	N/A
Cheves Creek	290	29,000	2,580	252.6	N/A	N/A
Cheves Creek	292	29,222	2,580	252.8	N/A	N/A
Cheves Creek	295	29,500	2,580	253.6	N/A	N/A
Cheves Creek	300	29,970	2,580	254.4	N/A	N/A
Cheves Creek	305	30,464	1,733	256.5	N/A	N/A
Cheves Creek	308	30,847	1,733	257.1	N/A	N/A
Cheves Creek	312	31,245	1,733	259.3	N/A	N/A
Cheves Creek	315	31,528	1,733	262.1	N/A	N/A
Cheves Creek	318	31,804	1,733	263.3	N/A	N/A
Cheves Creek	320	32,048	1,733	264.1	N/A	N/A
Cheves Creek	323	32,265	1,733	264.4	N/A	N/A
Cheves Creek	325	32,518	1,733	265.2	N/A	N/A
Cheves Creek	329	32,931	1,733	265.9	N/A	N/A
Cheves Creek	334	33,432	1,733	267.0	N/A	N/A
Cheves Creek	339	33,890	1,645	267.8	N/A	N/A
Cheves Creek	342	34,224	1,645	269.3	N/A	N/A
Cheves Creek	346	34,553	1,645	269.9	N/A	N/A
Cheves Creek	350	35,000	1,645	270.8	N/A	N/A
Cheves Creek	355	35,500	1,645	272.6	N/A	N/A
Cheves Creek	360	36,000	1,645	274.0	N/A	N/A
Cheves Creek	365	36,500	1,645	276.0	N/A	N/A
Cheves Creek	369	36,864	1,645	276.5	N/A	N/A
Cheves Creek	372	37,193	1,645	278.0	N/A	N/A
Cheves Creek	375	37,530	1,557	278.9	N/A	N/A
Cheves Creek	379	37,893	1,557	279.2	N/A	N/A
Cheves Creek	380	37,980	1,557	280.4	N/A	N/A
Cheves Creek	384	38,363	1,557	280.8	N/A	N/A
Cheves Creek	386	38,639	1,557	281.3	N/A	N/A
Cheves Creek	391	39,076	1,557	281.9	N/A	N/A
Cheves Creek	395	39,500	1,557	282.6	N/A	N/A
Cheves Creek	399	39,913	1,557	284.4	N/A	N/A
Cheves Creek	402	40,174	1,557	285.4	N/A	N/A
Cheves Creek	403	40,338	1,557	286.0	N/A	N/A
Cheves Creek	405	40,500	1,557	286.8	N/A	N/A
Cheves Creek	410	41,000	1,557	288.1	N/A	N/A
Cheves Creek	415	41,475	1,557	288.8	N/A	N/A
Cheves Creek	420	42,000	1,449	290.2	N/A	N/A
Cheves Creek	423	42,334	1,449	290.9	N/A	N/A

Table 25: Flood Hazard and Non-Encroachment Data for Selected Streams, continued

Flooding Source ¹	Cross Section	Stream Station ²	1% Annual Chance Flood Discharge (cfs)	1% Annual Chance Water Surface Elevation (feet NAVD88)	Non-Encroachment Width (feet)	
					Left	Right
Cheves Creek	425	42,500	1,449	291.1	N/A	N/A
Cheves Creek	428	42,807	1,449	291.9	N/A	N/A
Cheves Creek	430	43,000	1,449	292.1	N/A	N/A
Cheves Creek	432	43,212	1,449	292.5	N/A	N/A
Cheves Creek	435	43,500	1,449	294.5	N/A	N/A
Cheves Creek	438	43,765	1,449	294.7	N/A	N/A
Cheves Creek	440	44,000	1,449	295.4	N/A	N/A
Cheves Creek	443	44,314	1,383	295.7	N/A	N/A
Cheves Creek	445	44,528	1,383	296.2	N/A	N/A
Cheves Creek	447	44,674	1,383	296.6	N/A	N/A
Cheves Creek	448	44,833	1,383	296.9	N/A	N/A
Cheves Creek	450	44,960	1,383	296.9	N/A	N/A
Cheves Creek	451	45,061	1,383	298.2	N/A	N/A
Cheves Creek	452	45,171	1,383	298.7	N/A	N/A
Cheves Creek	453	45,340	1,383	301.0	N/A	N/A
Cheves Creek	455	45,500	1,383	301.4	N/A	N/A
Cheves Creek	460	46,000	1,383	302.2	N/A	N/A
Cheves Creek	462	46,201	1,383	302.2	N/A	N/A
Cheves Creek	464	46,380	1,383	303.9	N/A	N/A
Cheves Creek	465	46,500	1,383	304.0	N/A	N/A
Cheves Creek	468	46,772	1,383	306.7	N/A	N/A
Cheves Creek	470	47,000	1,383	307.4	N/A	N/A
Cheves Creek	475	47,500	1,383	309.1	N/A	N/A
Cheves Creek	477	47,662	1,334	309.8	N/A	N/A
Cheves Creek	480	48,000	1,334	311.2	N/A	N/A
Cheves Creek	485	48,500	1,334	313.6	N/A	N/A
Cheves Creek	490	49,000	1,334	316.8	N/A	N/A
Cheves Creek	495	49,500	1,334	318.3	N/A	N/A
Cheves Creek	500	50,000	1,287	322.6	N/A	N/A
Cheves Creek	502	50,215	1,287	323.6	N/A	N/A
Cheves Creek	505	50,500	1,287	324.6	N/A	N/A
Cheves Creek	508	50,758	1,287	325.7	N/A	N/A
Cheves Creek	511	51,083	1,287	327.6	N/A	N/A
Cheves Creek	513	51,308	1,287	328.3	N/A	N/A
Cheves Creek	515	51,500	1,287	328.6	N/A	N/A
Cheves Creek	520	52,000	1,287	330.0	N/A	N/A
Cheves Creek	522	52,179	1,287	330.7	N/A	N/A
Cheves Creek	524	52,435	1,284	331.6	N/A	N/A
Cheves Creek	526	52,626	1,284	332.6	N/A	N/A
Cheves Creek	527	52,709	1,284	333.0	N/A	N/A
Cheves Creek	531	53,055	1,284	333.5	N/A	N/A
Cheves Creek	534	53,403	1,284	334.9	N/A	N/A
Cheves Creek	536	53,602	1,284	335.7	N/A	N/A
Cheves Creek	540	54,000	1,284	336.7	N/A	N/A

Table 25: Flood Hazard and Non-Encroachment Data for Selected Streams, continued

Flooding Source ¹	Cross Section	Stream Station ²	1% Annual Chance Flood Discharge (cfs)	1% Annual Chance Water Surface Elevation (feet NAVD88)	Non-Encroachment Width (feet)	
					Left	Right
Cheves Creek	543	54,252	1,284	337.4	N/A	N/A
Cheves Creek	545	54,500	1,284	338.5	N/A	N/A
Cheves Creek	550	55,000	1,284	341.1	N/A	N/A
Cheves Creek	556	55,604	1,192	343.2	N/A	N/A
Cheves Creek	559	55,918	1,192	344.4	N/A	N/A
Cheves Creek	562	56,195	1,192	346.2	N/A	N/A
Cheves Creek	565	56,505	1,192	347.8	N/A	N/A
Cheves Creek	568	56,762	1,192	348.6	N/A	N/A
Cheves Creek	570	57,005	1,192	349.5	N/A	N/A
Cheves Creek	572	57,215	1,192	349.5	N/A	N/A
Cheves Creek	575	57,505	1,192	350.5	N/A	N/A
Cheves Creek	578	57,778	1,192	351.0	N/A	N/A
Cheves Creek	580	58,005	1,192	351.9	N/A	N/A
Cheves Creek	583	58,291	1,192	353.1	N/A	N/A
Cheves Creek	585	58,505	1,091	353.1	N/A	N/A
Cheves Creek	587	58,715	1,091	353.9	N/A	N/A
Cheves Creek	590	59,001	1,091	355.4	N/A	N/A
Cheves Creek	592	59,165	1,091	356.2	N/A	N/A
Cheves Creek	595	59,454	1,091	357.9	N/A	N/A
Cheves Creek	596	59,590	1,091	357.9	N/A	N/A
Cheves Creek	598	59,828	1,091	359.3	N/A	N/A
Cheves Creek	601	60,066	1,091	361.1	N/A	N/A
Cheves Creek	605	60,505	1,091	362.7	N/A	N/A
Cheves Creek	610	61,005	1,058	363.4	N/A	N/A
Cheves Creek	612	61,195	1,058	363.8	N/A	N/A
Cheves Creek	614	61,375	1,058	364.4	N/A	N/A
Cheves Creek	615	61,455	1,058	364.4	N/A	N/A
Cheves Creek	616	61,555	1,058	364.5	N/A	N/A
Cheves Creek	617	61,705	1,058	366.2	N/A	N/A
Cheves Creek	619	61,913	1,058	366.5	N/A	N/A
Cheves Creek	622	62,169	1,058	367.2	N/A	N/A
Cheves Creek	624	62,400	1,058	368.2	N/A	N/A
Cheves Creek	627	62,702	1,058	369.1	N/A	N/A
Cheves Creek	629	62,927	1,058	370.0	N/A	N/A
Cheves Creek	631	63,142	1,058	370.9	N/A	N/A
Cheves Creek	634	63,389	968	372.1	N/A	N/A
Cheves Creek	636	63,578	968	372.6	N/A	N/A
Cheves Creek	638	63,756	968	373.6	N/A	N/A
Cheves Creek	640	64,005	968	374.0	N/A	N/A
Cheves Creek	642	64,234	968	374.5	N/A	N/A
Cheves Creek	645	64,505	968	374.9	N/A	N/A
Cheves Creek	649	64,929	968	376.5	N/A	N/A
Cheves Creek	652	65,220	968	377.5	N/A	N/A
Cheves Creek	653	65,334	968	378.0	N/A	N/A

Table 25: Flood Hazard and Non-Encroachment Data for Selected Streams, continued

Flooding Source ¹	Cross Section	Stream Station ²	1% Annual Chance Flood Discharge (cfs)	1% Annual Chance Water Surface Elevation (feet NAVD88)	Non-Encroachment Width (feet)	
					Left	Right
Cheves Creek	654	65,397	968	378.0	N/A	N/A
Cheves Creek	655	65,451	968	378.1	N/A	N/A
Cheves Creek	656	65,636	968	379.6	N/A	N/A
Cheves Creek	660	66,005	968	381.0	N/A	N/A
Cheves Creek	665	66,505	914	382.3	N/A	N/A
Cheves Creek	667	66,715	914	382.9	N/A	N/A
Cheves Creek	670	67,005	914	384.0	N/A	N/A
Cheves Creek	673	67,286	914	384.9	N/A	N/A
Cheves Creek	676	67,580	914	386.4	N/A	N/A
Cheves Creek	677	67,663	914	386.7	N/A	N/A
Cheves Creek	678	67,835	914	387.6	N/A	N/A
Cheves Creek	680	68,020	914	390.1	N/A	N/A
Cheves Creek	683	68,323	839	390.5	N/A	N/A
Cheves Creek	685	68,451	839	390.5	N/A	N/A
Cheves Creek	687	68,703	839	391.7	N/A	N/A
Cheves Creek	690	69,005	839	392.3	N/A	N/A
Cheves Creek	692	69,164	839	392.7	N/A	N/A
Cheves Creek	693	69,340	839	394.3	N/A	N/A
Cheves Creek	696	69,621	839	395.6	N/A	N/A
Cheves Creek	696	69,642	839	398.9	N/A	N/A
Cheves Creek	697	69,701	839	400.9	N/A	N/A
Cheves Creek	699	69,855	839	401.4	N/A	N/A
Cheves Creek	700	69,967	839	401.5	N/A	N/A
Cheves Creek	702	70,198	763	401.9	N/A	N/A
Cheves Creek	705	70,505	763	402.7	N/A	N/A
Cheves Creek	707	70,692	763	403.2	N/A	N/A
Cheves Creek	708	70,834	763	403.8	N/A	N/A
Cheves Creek	710	71,005	763	406.5	N/A	N/A
Cheves Creek	712	71,165	763	407.5	N/A	N/A
Cheves Creek	714	71,370	763	408.1	N/A	N/A
Cheves Creek	716	71,573	763	409.0	N/A	N/A
Cheves Creek	718	71,800	452	410.0	N/A	N/A
Cheves Creek	720	72,005	452	411.5	N/A	N/A
Cheves Creek	725	72,505	452	416.1	N/A	N/A
Cheves Creek	730	73,005	452	422.2	N/A	N/A
Horn Creek	005	500	9,426	209.0 ³	N/A	N/A
Horn Creek	010	1,000	9,426	209.0 ³	N/A	N/A
Horn Creek	015	1,500	9,426	209.0 ³	N/A	N/A
Horn Creek	019	1,892	9,426	209.0 ³	N/A	N/A
Horn Creek	022	2,191	9,426	209.0 ³	N/A	N/A
Horn Creek	025	2,500	9,426	209.0 ³	N/A	N/A
Horn Creek	030	3,000	9,426	209.0 ³	N/A	N/A
Horn Creek	035	3,500	9,426	209.0 ³	N/A	N/A
Horn Creek	040	4,000	9,426	209.0 ³	N/A	N/A

Table 25: Flood Hazard and Non-Encroachment Data for Selected Streams, continued

Flooding Source ¹	Cross Section	Stream Station ²	1% Annual Chance Flood Discharge (cfs)	1% Annual Chance Water Surface Elevation (feet NAVD88)	Non-Encroachment Width (feet)	
					Left	Right
Horn Creek	045	4,500	9,426	209.0 ³	N/A	N/A
Horn Creek	049	4,858	9,426	209.0 ³	N/A	N/A
Horn Creek	052	5,197	9,426	209.0 ³	N/A	N/A
Horn Creek	055	5,500	9,386	209.0 ³	N/A	N/A
Horn Creek	059	5,911	9,386	209.0 ³	N/A	N/A
Horn Creek	060	6,008	9,386	209.0 ³	N/A	N/A
Horn Creek	065	6,500	9,386	209.0 ³	N/A	N/A
Horn Creek	069	6,883	9,386	209.0 ³	N/A	N/A
Horn Creek	072	7,240	9,386	209.0 ³	N/A	N/A
Horn Creek	075	7,500	9,386	209.0 ³	N/A	N/A
Horn Creek	080	8,000	9,386	209.0 ³	N/A	N/A
Horn Creek	085	8,500	9,386	209.0	N/A	N/A
Horn Creek	090	9,000	9,386	209.3	N/A	N/A
Horn Creek	094	9,395	9,386	209.8	N/A	N/A
Horn Creek	098	9,760	9,386	210.1	N/A	N/A
Horn Creek	100	10,000	9,386	210.3	N/A	N/A
Horn Creek	102	10,163	9,386	210.5	N/A	N/A
Horn Creek	107	10,685	9,006	210.6	N/A	N/A
Horn Creek	109	10,937	9,006	211.2	N/A	N/A
Horn Creek	112	11,203	9,006	211.2	N/A	N/A
Horn Creek	115	11,500	9,006	211.4	N/A	N/A
Horn Creek	120	12,000	9,006	211.9	N/A	N/A
Horn Creek	124	12,446	9,006	212.2	N/A	N/A
Horn Creek	128	12,771	9,006	212.8	N/A	N/A
Horn Creek	130	12,953	9,006	213.3	N/A	N/A
Horn Creek	135	13,500	9,006	213.6	N/A	N/A
Horn Creek	140	14,000	9,006	214.0	N/A	N/A
Horn Creek	145	14,500	9,006	214.3	N/A	N/A
Horn Creek	150	15,000	9,006	215.1	N/A	N/A
Horn Creek	155	15,500	8,934	215.6	N/A	N/A
Horn Creek	158	15,816	8,934	216.1	N/A	N/A
Horn Creek	164	16,372	8,934	216.5	N/A	N/A
Horn Creek	169	16,853	8,934	216.8	N/A	N/A
Horn Creek	171	17,082	8,934	216.8	N/A	N/A
Horn Creek	175	17,500	8,934	217.2	N/A	N/A
Horn Creek	180	18,000	8,934	217.9	N/A	N/A
Horn Creek	185	18,500	8,660	218.5	N/A	N/A
Horn Creek	190	19,000	8,660	219.5	N/A	N/A
Horn Creek	192	19,239	8,660	219.7	N/A	N/A
Horn Creek	195	19,500	8,660	220.2	N/A	N/A
Horn Creek	197	19,746	8,660	220.6	N/A	N/A
Horn Creek	200	20,000	8,660	221.2	N/A	N/A
Horn Creek	205	20,500	8,660	221.9	N/A	N/A
Horn Creek	210	21,000	8,660	222.8	N/A	N/A

Table 25: Flood Hazard and Non-Encroachment Data for Selected Streams, continued

Flooding Source ¹	Cross Section	Stream Station ²	1% Annual Chance Flood Discharge (cfs)	1% Annual Chance Water Surface Elevation (feet NAVD88)	Non-Encroachment Width (feet)	
					Left	Right
Horn Creek	215	21,500	8,660	223.4	N/A	N/A
Horn Creek	220	22,000	8,660	224.1	N/A	N/A
Horn Creek	225	22,500	8,660	224.5	N/A	N/A
Horn Creek	230	22,957	8,660	225.0	N/A	N/A
Horn Creek	233	23,262	8,660	225.3	N/A	N/A
Horn Creek	236	23,569	8,660	225.6	N/A	N/A
Horn Creek	240	24,000	8,660	226.2	N/A	N/A
Horn Creek	245	24,500	8,660	226.8	N/A	N/A
Horn Creek	249	24,897	8,660	227.4	N/A	N/A
Horn Creek	252	25,172	8,619	227.9	N/A	N/A
Horn Creek	254	25,393	8,619	228.2	N/A	N/A
Horn Creek	257	25,687	8,619	228.5	N/A	N/A
Horn Creek	260	26,000	8,619	228.7	N/A	N/A
Horn Creek	263	26,347	8,619	228.9	N/A	N/A
Horn Creek	268	26,810	8,619	229.5	N/A	N/A
Horn Creek	272	27,195	8,619	229.8	N/A	N/A
Horn Creek	275	27,500	8,619	229.9	N/A	N/A
Horn Creek	280	28,000	8,619	230.7	N/A	N/A
Horn Creek	283	28,250	8,619	230.9	N/A	N/A
Horn Creek	285	28,500	8,619	231.0	N/A	N/A
Horn Creek	290	29,000	8,619	231.6	N/A	N/A
Horn Creek	295	29,500	8,619	232.1	N/A	N/A
Horn Creek	300	30,000	8,619	232.6	N/A	N/A
Horn Creek	304	30,399	8,619	232.9	N/A	N/A
Horn Creek	306	30,596	7,988	233.0	N/A	N/A
Horn Creek	310	31,000	7,988	233.2	N/A	N/A
Horn Creek	313	31,344	7,988	233.3	N/A	N/A
Horn Creek	317	31,671	7,988	233.4	N/A	N/A
Horn Creek	320	32,000	7,988	233.6	N/A	N/A
Horn Creek	324	32,449	7,311	233.9	N/A	N/A
Horn Creek	326	32,637	7,311	234.0	N/A	N/A
Horn Creek	328	32,818	7,311	234.2	N/A	N/A
Horn Creek	330	32,995	7,311	234.3	N/A	N/A
Horn Creek	333	33,321	7,311	234.3	N/A	N/A
Horn Creek	336	33,598	7,311	234.5	N/A	N/A
Horn Creek	339	33,935	7,311	234.9	N/A	N/A
Horn Creek	343	34,315	7,311	235.1	N/A	N/A
Horn Creek	345	34,500	7,311	235.2	N/A	N/A
Horn Creek	350	35,000	7,311	235.3	N/A	N/A
Horn Creek	355	35,500	7,311	235.4	N/A	N/A
Horn Creek	360	36,000	7,311	235.6	N/A	N/A
Horn Creek	365	36,500	7,311	235.8	N/A	N/A
Horn Creek	370	37,000	7,311	236.2	N/A	N/A
Horn Creek	375	37,500	7,311	236.7	N/A	N/A

Table 25: Flood Hazard and Non-Encroachment Data for Selected Streams, continued

Flooding Source ¹	Cross Section	Stream Station ²	1% Annual Chance Flood Discharge (cfs)	1% Annual Chance Water Surface Elevation (feet NAVD88)	Non-Encroachment Width (feet)	
					Left	Right
Horn Creek	380	38,000	7,311	237.5	N/A	N/A
Horn Creek	385	38,500	7,311	238.4	N/A	N/A
Horn Creek	390	39,000	7,311	239.3	N/A	N/A
Horn Creek	395	39,500	7,214	239.9	N/A	N/A
Horn Creek	398	39,819	7,214	240.3	N/A	N/A
Horn Creek	403	40,252	7,214	240.9	N/A	N/A
Horn Creek	405	40,500	7,214	241.4	N/A	N/A
Horn Creek	409	40,885	7,214	242.3	N/A	N/A
Horn Creek	412	41,176	7,214	243.1	N/A	N/A
Horn Creek	415	41,500	7,214	243.7	N/A	N/A
Horn Creek	419	41,920	7,214	244.3	N/A	N/A
Horn Creek	422	42,189	7,214	245.0	N/A	N/A
Horn Creek	425	42,500	7,214	245.8	N/A	N/A
Horn Creek	430	43,000	7,214	246.8	N/A	N/A
Horn Creek	433	43,263	7,214	247.4	N/A	N/A
Horn Creek	435	43,500	7,214	247.8	N/A	N/A
Horn Creek	438	43,750	7,095	248.1	N/A	N/A
Horn Creek	442	44,173	7,095	248.8	N/A	N/A
Horn Creek	445	44,500	7,095	249.1	N/A	N/A
Horn Creek	449	44,868	7,095	249.5	N/A	N/A
Horn Creek	449	44,940	7,095	249.5	N/A	N/A
Horn Creek	451	45,111	7,095	249.8	N/A	N/A
Horn Creek	455	45,500	7,095	250.5	N/A	N/A
Horn Creek	460	46,000	7,095	251.1	N/A	N/A
Horn Creek	465	46,500	7,095	251.5	N/A	N/A
Horn Creek	470	47,000	7,095	251.9	N/A	N/A
Horn Creek	475	47,500	7,095	252.6	N/A	N/A
Horn Creek	480	48,000	7,095	253.8	N/A	N/A
Horn Creek	485	48,500	7,095	254.8	N/A	N/A
Horn Creek	490	49,000	6,943	255.3	N/A	N/A
Horn Creek	495	49,528	6,943	255.7	N/A	N/A
Horn Creek	498	49,828	6,943	255.9	N/A	N/A
Horn Creek	502	50,151	6,943	256.2	N/A	N/A
Horn Creek	504	50,353	6,943	256.4	N/A	N/A
Horn Creek	506	50,553	6,943	256.6	N/A	N/A
Horn Creek	511	51,149	6,943	258.3	N/A	N/A
Horn Creek	514	51,408	6,943	259.0	N/A	N/A
Horn Creek	517	51,722	6,943	260.1	N/A	N/A
Horn Creek	521	52,112	6,943	261.1	N/A	N/A
Horn Creek	525	52,528	6,943	262.8	N/A	N/A
Horn Creek	532	53,165	6,943	264.1	N/A	N/A
Horn Creek	535	53,464	6,943	264.4	N/A	N/A
Horn Creek	538	53,847	6,943	264.8	N/A	N/A
Horn Creek	543	54,270	6,943	265.1	N/A	N/A

Table 25: Flood Hazard and Non-Encroachment Data for Selected Streams, continued

Flooding Source ¹	Cross Section	Stream Station ²	1% Annual Chance Flood Discharge (cfs)	1% Annual Chance Water Surface Elevation (feet NAVD88)	Non-Encroachment Width (feet)	
					Left	Right
Horn Creek	548	54,770	4,109	266.1	N/A	N/A
Horn Creek	551	55,100	4,109	266.5	N/A	N/A
Horn Creek	552	55,244	4,109	266.9	N/A	N/A
Horn Creek	556	55,564	4,109	267.1	N/A	N/A
Horn Creek	558	55,839	4,109	267.5	N/A	N/A
Horn Creek	564	56,407	4,109	268.0	N/A	N/A
Horn Creek	568	56,778	4,109	268.3	N/A	N/A
Horn Creek	573	57,270	4,109	269.5	N/A	N/A
Horn Creek	578	57,770	4,109	270.8	N/A	N/A
Horn Creek	583	58,270	4,109	272.0	N/A	N/A
Horn Creek	588	58,770	4,109	273.8	N/A	N/A
Horn Creek	593	59,270	4,109	274.6	N/A	N/A
Horn Creek	598	59,770	4,109	274.8	N/A	N/A
Horn Creek	600	60,008	4,109	275.4	N/A	N/A
Horn Creek	603	60,270	4,109	275.8	N/A	N/A
Horn Creek	606	60,579	4,109	276.4	N/A	N/A
Horn Creek	608	60,770	4,109	276.6	N/A	N/A
Horn Creek	612	61,168	4,109	277.4	N/A	N/A
Horn Creek	614	61,418	4,109	277.8	N/A	N/A
Horn Creek	617	61,717	4,109	278.7	N/A	N/A
Horn Creek	620	61,955	4,040	279.5	N/A	N/A
Horn Creek	621	62,110	4,040	279.7	N/A	N/A
Horn Creek	623	62,270	4,040	279.7	N/A	N/A
Horn Creek	628	62,770	4,040	279.9	N/A	N/A
Horn Creek	633	63,270	4,040	280.5	N/A	N/A
Horn Creek	638	63,770	4,040	281.3	N/A	N/A
Horn Creek	643	64,270	4,040	281.6	N/A	N/A
Horn Creek	648	64,770	4,040	282.5	N/A	N/A
Horn Creek	653	65,270	4,040	284.9	N/A	N/A
Horn Creek	657	65,720	4,040	287.9	N/A	N/A
Horn Creek	661	66,122	4,040	289.0	N/A	N/A
Horn Creek	666	66,559	4,040	289.3	N/A	N/A
Horn Creek	669	66,948	4,040	289.6	N/A	N/A
Horn Creek	673	67,270	4,040	290.2	N/A	N/A
Horn Creek	678	67,770	4,040	291.1	N/A	N/A
Horn Creek	683	68,270	3,822	292.5	N/A	N/A
Horn Creek	686	68,579	3,822	292.9	N/A	N/A
Horn Creek	689	68,885	3,822	293.1	N/A	N/A
Horn Creek	693	69,270	3,822	294.9	N/A	N/A
Horn Creek	698	69,770	3,822	295.4	N/A	N/A
Horn Creek	702	70,168	3,822	296.0	N/A	N/A
Horn Creek	705	70,546	3,822	297.2	N/A	N/A
Horn Creek	708	70,770	3,822	297.4	N/A	N/A
Horn Creek	713	71,270	3,822	297.7	N/A	N/A

Table 25: Flood Hazard and Non-Encroachment Data for Selected Streams, continued

Flooding Source ¹	Cross Section	Stream Station ²	1% Annual Chance Flood Discharge (cfs)	1% Annual Chance Water Surface Elevation (feet NAVD88)	Non-Encroachment Width (feet)	
					Left	Right
Horn Creek	718	71,837	3,822	298.3	N/A	N/A
Horn Creek	720	71,952	3,822	299.4	N/A	N/A
Horn Creek	723	72,270	3,822	299.8	N/A	N/A
Horn Creek	723	72,328	3,822	299.8	N/A	N/A
Horn Creek	724	72,404	3,822	301.2	N/A	N/A
Horn Creek	728	72,770	3,558	301.4	N/A	N/A
Horn Creek	733	73,270	3,558	301.8	N/A	N/A
Horn Creek	738	73,770	3,558	303.0	N/A	N/A
Horn Creek	743	74,270	3,558	304.1	N/A	N/A
Horn Creek	746	74,608	3,558	304.7	N/A	N/A
Horn Creek	750	74,976	3,222	305.9	N/A	N/A
Horn Creek	753	75,270	3,222	306.1	N/A	N/A
Horn Creek	756	75,646	3,222	306.6	N/A	N/A
Horn Creek	760	75,975	3,222	307.6	N/A	N/A
Horn Creek	763	76,270	2,433	308.3	N/A	N/A
Horn Creek	768	76,770	2,433	310.6	N/A	N/A
Horn Creek	773	77,270	2,433	311.7	N/A	N/A
Horn Creek	777	77,651	2,433	312.8	N/A	N/A
Horn Creek	779	77,906	2,433	313.8	N/A	N/A
Horn Creek	782	78,202	2,433	314.6	N/A	N/A
Horn Creek	784	78,416	2,433	314.8	N/A	N/A
Horn Creek	787	78,681	2,433	316.0	N/A	N/A
Horn Creek	790	78,955	2,433	316.0	N/A	N/A
Horn Creek	793	79,270	2,433	317.8	N/A	N/A
Horn Creek	796	79,589	2,433	317.8	N/A	N/A
Horn Creek	800	79,988	2,217	320.2	N/A	N/A
Horn Creek	803	80,270	2,217	320.5	N/A	N/A
Horn Creek	806	80,624	2,217	321.0	N/A	N/A
Horn Creek	810	81,018	2,217	322.4	N/A	N/A
Horn Creek	814	81,394	2,217	323.3	N/A	N/A
Horn Creek	818	81,770	2,217	324.0	N/A	N/A
Horn Creek	823	82,270	2,217	325.6	N/A	N/A
Horn Creek	827	82,662	2,217	326.5	N/A	N/A
Horn Creek	831	83,056	2,188	328.0	N/A	N/A
Horn Creek	833	83,293	2,188	329.4	N/A	N/A
Horn Creek	834	83,385	2,188	329.8	N/A	N/A
Horn Creek	838	83,770	2,188	329.9	N/A	N/A
Horn Creek	843	84,270	1,758	331.8	N/A	N/A
Horn Creek	848	84,770	1,758	333.9	N/A	N/A
Horn Creek	850	84,987	1,758	334.0	N/A	N/A
Horn Creek	853	85,270	1,758	334.6	N/A	N/A
Horn Creek	856	85,557	1,758	335.2	N/A	N/A
Horn Creek	858	85,765	1,758	337.4	N/A	N/A
Horn Creek	863	86,270	1,758	337.7	N/A	N/A

Table 25: Flood Hazard and Non-Encroachment Data for Selected Streams, continued

Flooding Source ¹	Cross Section	Stream Station ²	1% Annual Chance Flood Discharge (cfs)	1% Annual Chance Water Surface Elevation (feet NAVD88)	Non-Encroachment Width (feet)	
					Left	Right
Horn Creek	867	86,705	1,758	339.5	N/A	N/A
Horn Creek	871	87,128	1,758	340.0	N/A	N/A
Horn Creek	875	87,545	1,758	343.1	N/A	N/A
Horn Creek	878	87,770	1,758	344.7	N/A	N/A
Horn Creek	883	88,270	1,758	347.2	N/A	N/A
Horn Creek	885	88,496	1,758	347.3	N/A	N/A
Horn Creek	888	88,770	1,758	349.4	N/A	N/A
Horn Creek	890	89,005	1,521	351.2	N/A	N/A
Horn Creek	893	89,270	1,521	351.6	N/A	N/A
Horn Creek	898	89,770	1,521	352.3	N/A	N/A
Horn Creek	903	90,270	1,505	353.6	N/A	N/A
Horn Creek	907	90,743	1,505	354.6	N/A	N/A
Horn Creek	910	90,952	1,168	356.1	N/A	N/A
Horn Creek	910	91,005	1,168	356.1	N/A	N/A
Horn Creek	913	91,270	1,168	356.7	N/A	N/A
Horn Creek	916	91,551	1,168	359.2	N/A	N/A
Horn Creek	918	91,770	1,168	359.7	N/A	N/A
Horn Creek	923	92,270	1,168	359.8	N/A	N/A
Horn Creek	928	92,770	1,168	361.6	N/A	N/A
Horn Creek	931	93,097	1,168	361.9	N/A	N/A
Horn Creek	935	93,469	1,168	365.7	N/A	N/A
Stevens Creek	280	28,022	38,457	191.2	N/A	N/A
Stevens Creek	281	28,140	38,457	191.3	N/A	N/A
Stevens Creek	284	28,361	38,457	192.3	N/A	N/A
Stevens Creek	289	28,882	38,457	194.0	N/A	N/A
Stevens Creek	294	29,382	38,457	194.6	N/A	N/A
Stevens Creek	299	29,882	38,457	195.5	N/A	N/A
Stevens Creek	304	30,382	38,457	197.0	N/A	N/A
Stevens Creek	309	30,882	38,457	197.4	N/A	N/A
Stevens Creek	314	31,382	38,457	197.4	N/A	N/A
Stevens Creek	319	31,882	38,457	197.4	N/A	N/A
Stevens Creek	324	32,382	38,457	198.2	N/A	N/A
Stevens Creek	329	32,882	38,457	198.8	N/A	N/A
Stevens Creek	334	33,382	38,457	199.3	N/A	N/A
Stevens Creek	339	33,882	38,457	199.8	N/A	N/A
Stevens Creek	344	34,365	38,457	200.0	N/A	N/A
Stevens Creek	349	34,882	38,457	200.1	N/A	N/A
Stevens Creek	354	35,382	38,457	200.3	N/A	N/A
Stevens Creek	357	35,697	38,457	200.5	N/A	N/A
Stevens Creek	363	36,257	38,269	201.2	N/A	N/A
Stevens Creek	368	36,788	38,269	201.6	N/A	N/A
Stevens Creek	371	37,087	38,269	201.9	N/A	N/A
Stevens Creek	374	37,382	38,269	202.0	N/A	N/A
Stevens Creek	379	37,882	38,269	202.8	N/A	N/A

Table 25: Flood Hazard and Non-Encroachment Data for Selected Streams, continued

Flooding Source ¹	Cross Section	Stream Station ²	1% Annual Chance Flood Discharge (cfs)	1% Annual Chance Water Surface Elevation (feet NAVD88)	Non-Encroachment Width (feet)	
					Left	Right
Stevens Creek	384	38,382	38,217	203.6	N/A	N/A
Stevens Creek	389	38,882	38,217	203.8	N/A	N/A
Stevens Creek	394	39,382	38,217	203.8	N/A	N/A
Stevens Creek	399	39,882	38,217	204.0	N/A	N/A
Stevens Creek	404	40,382	38,217	204.3	N/A	N/A
Stevens Creek	409	40,882	38,217	204.4	N/A	N/A
Stevens Creek	414	41,382	38,217	204.8	N/A	N/A
Stevens Creek	419	41,882	38,217	205.3	N/A	N/A
Stevens Creek	422	42,196	38,217	205.3	N/A	N/A
Stevens Creek	425	42,465	38,217	205.3	N/A	N/A
Stevens Creek	429	42,882	38,217	205.9	N/A	N/A
Stevens Creek	434	43,382	38,217	206.1	N/A	N/A
Stevens Creek	439	43,882	38,204	206.2	N/A	N/A
Stevens Creek	444	44,382	38,204	206.8	N/A	N/A
Stevens Creek	447	44,693	38,204	206.9	N/A	N/A
Stevens Creek	450	44,958	38,204	207.2	N/A	N/A
Stevens Creek	454	45,382	38,204	207.2	N/A	N/A
Stevens Creek	459	45,882	38,204	207.4	N/A	N/A
Stevens Creek	464	46,382	38,204	207.7	N/A	N/A
Stevens Creek	468	46,820	38,204	208.0	N/A	N/A
Stevens Creek	473	47,299	38,204	208.4	N/A	N/A
Stevens Creek	478	47,751	38,204	208.6	N/A	N/A
Stevens Creek	481	48,137	38,204	208.8	N/A	N/A
Stevens Creek	485	48,515	38,204	208.9	N/A	N/A
Stevens Creek	490	49,008	36,778	209.1	N/A	N/A
Stevens Creek	495	49,521	36,778	209.1	N/A	N/A
Stevens Creek	499	49,882	36,778	209.2	N/A	N/A
Stevens Creek	504	50,382	36,778	209.5	N/A	N/A
Stevens Creek	509	50,882	36,778	209.9	N/A	N/A
Stevens Creek	514	51,382	36,778	210.0	N/A	N/A
Stevens Creek	519	51,882	36,778	210.1	N/A	N/A
Stevens Creek	524	52,382	36,778	210.4	N/A	N/A
Stevens Creek	528	52,775	36,778	210.5	N/A	N/A
Stevens Creek	531	53,115	36,778	210.6	N/A	N/A
Stevens Creek	535	53,529	36,778	210.9	N/A	N/A
Stevens Creek	539	53,882	36,778	211.0	N/A	N/A
Stevens Creek	544	54,382	36,778	211.1	N/A	N/A
Stevens Creek	548	54,817	36,778	211.3	N/A	N/A
Stevens Creek	551	55,083	36,778	211.6	N/A	N/A
Stevens Creek	554	55,382	36,778	211.7	N/A	N/A
Stevens Creek	559	55,882	36,778	211.9	N/A	N/A
Stevens Creek	563	56,305	36,778	212.2	N/A	N/A
Stevens Creek	566	56,610	36,695	212.5	N/A	N/A
Stevens Creek	569	56,882	36,695	212.7	N/A	N/A

Table 25: Flood Hazard and Non-Encroachment Data for Selected Streams, continued

Flooding Source ¹	Cross Section	Stream Station ²	1% Annual Chance Flood Discharge (cfs)	1% Annual Chance Water Surface Elevation (feet NAVD88)	Non-Encroachment Width (feet)	
					Left	Right
Stevens Creek	574	57,382	36,695	212.8	N/A	N/A
Stevens Creek	579	57,882	36,695	212.9	N/A	N/A
Stevens Creek	584	58,382	36,695	213.2	N/A	N/A
Stevens Creek	589	58,882	36,646	213.4	N/A	N/A
Stevens Creek	594	59,382	36,646	213.6	N/A	N/A
Stevens Creek	599	59,882	36,646	213.9	N/A	N/A
Stevens Creek	604	60,382	36,646	214.0	N/A	N/A
Stevens Creek	609	60,882	36,646	214.2	N/A	N/A
Stevens Creek	614	61,382	36,646	214.3	N/A	N/A
Stevens Creek	619	61,882	36,646	214.4	N/A	N/A
Stevens Creek	624	62,382	36,646	214.5	N/A	N/A
Stevens Creek	629	62,882	36,646	214.6	N/A	N/A
Stevens Creek	634	63,382	36,646	215.0	N/A	N/A
Stevens Creek	639	63,882	36,594	215.0	N/A	N/A
Stevens Creek	644	64,382	36,594	215.3	N/A	N/A
Stevens Creek	648	64,768	36,594	215.4	N/A	N/A
Stevens Creek	651	65,145	36,594	215.6	N/A	N/A
Stevens Creek	654	65,382	36,594	215.6	N/A	N/A
Stevens Creek	659	65,882	36,594	216.1	N/A	N/A
Stevens Creek	664	66,382	36,594	216.2	N/A	N/A
Stevens Creek	669	66,882	36,594	216.5	N/A	N/A
Stevens Creek	674	67,382	36,594	216.5	N/A	N/A
Stevens Creek	679	67,882	36,594	216.9	N/A	N/A
Stevens Creek	684	68,382	36,594	217.2	N/A	N/A
Stevens Creek	689	68,882	36,594	217.5	N/A	N/A
Stevens Creek	694	69,382	36,594	217.7	N/A	N/A
Stevens Creek	699	69,882	36,594	217.7	N/A	N/A
Stevens Creek	704	70,382	36,594	217.8	N/A	N/A
Stevens Creek	709	70,882	36,594	218.0	N/A	N/A
Stevens Creek	714	71,382	36,594	218.2	N/A	N/A
Stevens Creek	719	71,882	36,594	218.3	N/A	N/A
Stevens Creek	724	72,382	36,232	218.4	N/A	N/A
Stevens Creek	729	72,882	36,232	218.5	N/A	N/A
Stevens Creek	734	73,382	36,232	218.6	N/A	N/A
Stevens Creek	739	73,882	36,232	218.7	N/A	N/A
Stevens Creek	744	74,382	36,232	218.7	N/A	N/A
Stevens Creek	749	74,882	36,232	218.8	N/A	N/A
Stevens Creek	754	75,382	36,232	218.8	N/A	N/A
Stevens Creek	759	75,882	36,232	218.8	N/A	N/A
Stevens Creek	764	76,382	36,232	219.0	N/A	N/A
Stevens Creek	766	76,598	36,232	219.0	N/A	N/A
Stevens Creek	769	76,882	36,232	219.1	N/A	N/A
Stevens Creek	774	77,382	36,232	219.1	N/A	N/A
Stevens Creek	779	77,882	36,232	219.2	N/A	N/A

Table 25: Flood Hazard and Non-Encroachment Data for Selected Streams, continued

Flooding Source ¹	Cross Section	Stream Station ²	1% Annual Chance Flood Discharge (cfs)	1% Annual Chance Water Surface Elevation (feet NAVD88)	Non-Encroachment Width (feet)	
					Left	Right
Stevens Creek	783	78,269	36,232	219.2	N/A	N/A
Stevens Creek	786	78,624	36,232	219.4	N/A	N/A
Stevens Creek	789	78,882	36,232	219.4	N/A	N/A
Stevens Creek	793	79,320	36,232	219.6	N/A	N/A
Stevens Creek	798	79,767	36,232	219.7	N/A	N/A
Stevens Creek	801	80,101	36,232	220.1	N/A	N/A
Stevens Creek	804	80,440	36,232	220.4	N/A	N/A
Stevens Creek	809	80,882	36,232	220.4	N/A	N/A
Stevens Creek	814	81,382	36,232	220.5	N/A	N/A
Stevens Creek	819	81,882	36,232	220.6	N/A	N/A
Stevens Creek	824	82,382	36,232	220.7	N/A	N/A
Stevens Creek	829	82,882	36,232	220.9	N/A	N/A
Stevens Creek	834	83,382	36,232	221.2	N/A	N/A
Stevens Creek	839	83,882	36,232	221.5	N/A	N/A
Stevens Creek	841	84,134	36,232	221.5	N/A	N/A
Stevens Creek	845	84,474	36,232	221.7	N/A	N/A
Stevens Creek	849	84,882	36,232	221.7	N/A	N/A
Stevens Creek	854	85,382	36,232	222.0	N/A	N/A
Stevens Creek	856	85,603	36,232	222.1	N/A	N/A
Stevens Creek	859	85,881	36,232	222.1	N/A	N/A
Stevens Creek	861	86,121	36,232	222.2	N/A	N/A
Stevens Creek	864	86,382	36,232	222.4	N/A	N/A
Stevens Creek	868	86,769	36,232	222.5	N/A	N/A
Stevens Creek	872	87,174	36,232	222.9	N/A	N/A
Stevens Creek	876	87,557	36,232	223.0	N/A	N/A
Stevens Creek	879	87,882	36,232	223.1	N/A	N/A
Stevens Creek	881	88,133	36,232	223.2	N/A	N/A
Stevens Creek	884	88,382	36,232	223.4	N/A	N/A
Stevens Creek	889	88,882	36,232	223.6	N/A	N/A
Stevens Creek	894	89,382	36,031	223.6	N/A	N/A
Stevens Creek	896	89,625	36,031	223.7	N/A	N/A
Stevens Creek	899	89,882	36,031	223.8	N/A	N/A
Stevens Creek	902	90,243	36,031	223.9	N/A	N/A
Stevens Creek	903	90,344	36,031	224.0	N/A	N/A
Stevens Creek	907	90,697	36,031	224.0	N/A	N/A
Stevens Creek	910	91,007	36,031	224.1	N/A	N/A
Stevens Creek	914	91,382	36,031	224.3	N/A	N/A
Stevens Creek	916	91,640	36,031	224.5	N/A	N/A
Stevens Creek	920	92,008	35,611	224.7	N/A	N/A
Stevens Creek	924	92,382	35,611	224.7	N/A	N/A
Stevens Creek	929	92,882	35,611	224.9	N/A	N/A
Stevens Creek	934	93,382	35,611	225.1	N/A	N/A
Stevens Creek	939	93,882	35,611	225.3	N/A	N/A
Stevens Creek	944	94,382	35,611	225.5	N/A	N/A

Table 25: Flood Hazard and Non-Encroachment Data for Selected Streams, continued

Flooding Source ¹	Cross Section	Stream Station ²	1% Annual Chance Flood Discharge (cfs)	1% Annual Chance Water Surface Elevation (feet NAVD88)	Non-Encroachment Width (feet)	
					Left	Right
Stevens Creek	949	94,874	35,611	225.8	N/A	N/A
Stevens Creek	951	95,113	35,611	226.1	N/A	N/A
Stevens Creek	954	95,382	35,611	226.3	N/A	N/A
Stevens Creek	959	95,882	35,611	226.4	N/A	N/A
Stevens Creek	961	96,137	35,611	226.7	N/A	N/A
Stevens Creek	964	96,382	35,611	226.7	N/A	N/A
Stevens Creek	969	96,882	35,611	226.9	N/A	N/A
Stevens Creek	974	97,382	35,611	226.9	N/A	N/A
Stevens Creek	979	97,882	35,611	227.3	N/A	N/A
Stevens Creek	984	98,382	35,611	227.4	N/A	N/A
Stevens Creek	987	98,713	35,611	227.5	N/A	N/A
Stevens Creek	990	99,017	35,554	227.8	N/A	N/A
Stevens Creek	993	99,286	35,554	227.8	N/A	N/A
Stevens Creek	996	99,637	35,554	228.0	N/A	N/A
Stevens Creek	999	99,882	35,554	228.0	N/A	N/A
Stevens Creek	1003	100,279	35,554	228.2	N/A	N/A
Stevens Creek	1006	100,580	35,554	228.3	N/A	N/A
Stevens Creek	1009	100,882	35,554	228.6	N/A	N/A
Stevens Creek	1014	101,382	35,554	228.7	N/A	N/A
Stevens Creek	1019	101,882	35,554	229.0	N/A	N/A
Stevens Creek	1024	102,382	35,554	229.0	N/A	N/A
Stevens Creek	1026	102,572	35,554	229.3	N/A	N/A
Stevens Creek	1028	102,784	35,554	229.4	N/A	N/A
Stevens Creek	1031	103,071	35,554	229.4	N/A	N/A
Stevens Creek	1034	103,382	35,554	229.5	N/A	N/A
Stevens Creek	1039	103,882	35,554	229.7	N/A	N/A
Stevens Creek	1043	104,338	35,554	229.9	N/A	N/A
Stevens Creek	1047	104,724	35,554	230.5	N/A	N/A
Stevens Creek	1050	105,003	35,554	230.5	N/A	N/A
Stevens Creek	1053	105,293	35,554	230.6	N/A	N/A
Stevens Creek	1056	105,564	35,554	230.8	N/A	N/A
Stevens Creek	1059	105,927	35,554	230.8	N/A	N/A
Stevens Creek	1062	106,184	35,554	230.8	N/A	N/A
Stevens Creek	1064	106,382	35,554	230.8	N/A	N/A
Stevens Creek	1069	106,882	35,554	231.1	N/A	N/A
Stevens Creek	1074	107,382	35,554	231.4	N/A	N/A
Stevens Creek	1079	107,882	35,554	231.6	N/A	N/A
Stevens Creek	1084	108,382	35,554	231.9	N/A	N/A
Stevens Creek	1086	108,619	35,554	231.9	N/A	N/A
Stevens Creek	1089	108,882	35,554	232.1	N/A	N/A
Stevens Creek	1092	109,198	35,554	232.3	N/A	N/A
Stevens Creek	1096	109,583	35,554	232.3	N/A	N/A
Stevens Creek	1099	109,882	35,554	232.3	N/A	N/A
Stevens Creek	1104	110,382	35,554	232.4	N/A	N/A

Table 25: Flood Hazard and Non-Encroachment Data for Selected Streams, continued

Flooding Source ¹	Cross Section	Stream Station ²	1% Annual Chance Flood Discharge (cfs)	1% Annual Chance Water Surface Elevation (feet NAVD88)	Non-Encroachment Width (feet)	
					Left	Right
Stevens Creek	1108	110,845	35,414	232.6	N/A	N/A
Stevens Creek	1111	111,118	35,414	233.2	N/A	N/A
Stevens Creek	1112	111,220	35,414	233.5	N/A	N/A
Stevens Creek	1115	111,487	35,414	233.5	N/A	N/A
Stevens Creek	1119	111,882	35,414	233.7	N/A	N/A
Stevens Creek	1124	112,382	35,414	234.0	N/A	N/A
Stevens Creek	1126	112,623	35,414	234.0	N/A	N/A
Stevens Creek	1129	112,882	35,414	234.1	N/A	N/A
Stevens Creek	1134	113,382	35,414	234.3	N/A	N/A
Stevens Creek	1139	113,882	35,414	234.5	N/A	N/A
Stevens Creek	1141	114,128	35,414	234.6	N/A	N/A
Stevens Creek	1145	114,468	35,414	234.8	N/A	N/A
Stevens Creek	1149	114,882	35,414	234.9	N/A	N/A
Stevens Creek	1151	115,130	35,414	235.1	N/A	N/A
Stevens Creek	1154	115,382	35,414	235.2	N/A	N/A
Stevens Creek	1159	115,882	35,414	235.5	N/A	N/A
Stevens Creek	1164	116,382	35,414	235.9	N/A	N/A
Stevens Creek	1166	116,616	35,414	236.0	N/A	N/A
Stevens Creek	1169	116,882	35,414	236.1	N/A	N/A
Stevens Creek	1171	117,130	35,414	236.2	N/A	N/A
Stevens Creek	1174	117,382	35,414	236.2	N/A	N/A
Stevens Creek	1176	117,593	35,414	236.2	N/A	N/A
Stevens Creek	1179	117,882	35,414	236.4	N/A	N/A
Stevens Creek	1181	118,142	35,414	236.6	N/A	N/A
Stevens Creek	1184	118,382	35,414	236.6	N/A	N/A
Stevens Creek	1189	118,882	35,414	237.1	N/A	N/A
Stevens Creek	1194	119,382	35,414	237.5	N/A	N/A
Stevens Creek	1197	119,650	35,414	237.5	N/A	N/A
Stevens Creek	1199	119,882	35,414	237.8	N/A	N/A
Stevens Creek	1202	120,172	35,414	237.8	N/A	N/A
Stevens Creek	1204	120,382	35,414	237.9	N/A	N/A
Stevens Creek	1208	120,795	35,414	238.1	N/A	N/A
Stevens Creek	1211	121,060	35,414	238.3	N/A	N/A
Stevens Creek	1214	121,382	35,414	238.8	N/A	N/A
Stevens Creek	1216	121,609	35,414	238.8	N/A	N/A
Stevens Creek	1219	121,882	35,414	238.8	N/A	N/A
Stevens Creek	1221	122,102	35,414	238.8	N/A	N/A
Stevens Creek	1224	122,382	35,414	238.9	N/A	N/A
Stevens Creek	1226	122,640	34,989	239.0	N/A	N/A
Stevens Creek	1229	122,882	34,989	239.0	N/A	N/A
Stevens Creek	1231	123,113	34,989	239.1	N/A	N/A
Stevens Creek	1234	123,382	34,989	239.1	N/A	N/A
Stevens Creek	1239	123,882	34,989	239.3	N/A	N/A
Stevens Creek	1244	124,382	34,989	239.4	N/A	N/A

Table 25: Flood Hazard and Non-Encroachment Data for Selected Streams, continued

Flooding Source ¹	Cross Section	Stream Station ²	1% Annual Chance Flood Discharge (cfs)	1% Annual Chance Water Surface Elevation (feet NAVD88)	Non-Encroachment Width (feet)	
					Left	Right
Stevens Creek	1249	124,882	34,989	239.9	N/A	N/A
Stevens Creek	1251	125,117	34,989	239.9	N/A	N/A
Stevens Creek	1254	125,382	34,989	240.2	N/A	N/A
Stevens Creek	1257	125,666	34,989	240.3	N/A	N/A
Stevens Creek	1259	125,882	34,989	240.3	N/A	N/A
Stevens Creek	1261	126,123	34,989	240.5	N/A	N/A
Stevens Creek	1264	126,382	34,989	240.5	N/A	N/A
Stevens Creek	1269	126,882	34,989	240.7	N/A	N/A
Stevens Creek	1271	127,118	34,989	240.7	N/A	N/A
Stevens Creek	1274	127,382	34,989	240.8	N/A	N/A
Stevens Creek	1279	127,882	34,951	240.9	N/A	N/A
Stevens Creek	1282	128,155	34,951	241.0	N/A	N/A
Stevens Creek	1285	128,487	34,951	241.1	N/A	N/A
Stevens Creek	1289	128,882	34,951	241.5	N/A	N/A
Stevens Creek	1291	129,103	34,951	241.5	N/A	N/A
Stevens Creek	1294	129,382	34,951	241.6	N/A	N/A
Stevens Creek	1299	129,882	34,951	241.9	N/A	N/A
Stevens Creek	1304	130,382	34,951	241.9	N/A	N/A
Stevens Creek	1306	130,624	34,951	242.9	N/A	N/A
Stevens Creek	1308	130,819	34,951	242.9	N/A	N/A
Stevens Creek	1310	131,014	34,951	242.9	N/A	N/A
Stevens Creek	1313	131,294	34,951	242.9	N/A	N/A
Stevens Creek	1316	131,560	34,951	243.0	N/A	N/A
Stevens Creek	1319	131,882	34,951	243.0	N/A	N/A
Stevens Creek	1324	132,382	34,951	243.6	N/A	N/A
Stevens Creek	1326	132,613	34,951	243.7	N/A	N/A
Stevens Creek	1328	132,809	20,576	244.0	N/A	N/A
Turkey Creek	001	58	20,917	243.8 ³	N/A	N/A
Turkey Creek	005	500	20,917	243.8 ³	N/A	N/A
Turkey Creek	010	972	20,917	243.8 ³	N/A	N/A
Turkey Creek	012	1,208	20,917	243.8 ³	N/A	N/A
Turkey Creek	015	1,500	20,917	243.8 ³	N/A	N/A
Turkey Creek	020	2,000	20,917	243.8 ³	N/A	N/A
Turkey Creek	023	2,274	20,917	243.8 ³	N/A	N/A
Turkey Creek	024	2,445	20,917	243.8 ³	N/A	N/A
Turkey Creek	028	2,778	20,917	243.8 ³	N/A	N/A
Turkey Creek	030	3,000	20,917	243.8 ³	N/A	N/A
Turkey Creek	035	3,500	20,917	243.8 ³	N/A	N/A
Turkey Creek	038	3,802	20,917	243.8 ³	N/A	N/A
Turkey Creek	041	4,091	20,917	243.8 ³	N/A	N/A
Turkey Creek	045	4,500	20,917	243.8 ³	N/A	N/A
Turkey Creek	050	5,000	20,917	243.8 ³	N/A	N/A
Turkey Creek	055	5,500	20,917	243.8 ³	N/A	N/A
Turkey Creek	060	6,000	20,917	243.8 ³	N/A	N/A

Table 25: Flood Hazard and Non-Encroachment Data for Selected Streams, continued

Flooding Source ¹	Cross Section	Stream Station ²	1% Annual Chance Flood Discharge (cfs)	1% Annual Chance Water Surface Elevation (feet NAVD88)	Non-Encroachment Width (feet)	
					Left	Right
Turkey Creek	065	6,500	20,917	243.8 ³	N/A	N/A
Turkey Creek	070	7,000	20,917	243.8 ³	N/A	N/A
Turkey Creek	073	7,319	20,917	243.8 ³	N/A	N/A
Turkey Creek	076	7,610	20,682	244.1	N/A	N/A
Turkey Creek	080	8,000	20,682	244.3	N/A	N/A
Turkey Creek	085	8,500	20,682	244.6	N/A	N/A
Turkey Creek	090	9,000	20,682	245.0	N/A	N/A
Turkey Creek	095	9,500	20,682	245.1	N/A	N/A
Turkey Creek	100	10,000	20,682	245.6	N/A	N/A
Turkey Creek	103	10,258	20,682	245.7	N/A	N/A
Turkey Creek	105	10,500	20,682	245.8	N/A	N/A
Turkey Creek	110	11,000	20,682	246.0	N/A	N/A
Turkey Creek	115	11,500	20,682	246.6	N/A	N/A
Turkey Creek	120	11,992	20,682	246.7	N/A	N/A
Turkey Creek	125	12,486	20,466	246.9	N/A	N/A
Turkey Creek	130	12,986	20,466	247.3	N/A	N/A
Turkey Creek	133	13,276	20,466	247.5	N/A	N/A
Turkey Creek	135	13,486	20,466	248.0	N/A	N/A
Turkey Creek	137	13,736	20,466	248.1	N/A	N/A
Turkey Creek	140	13,986	20,466	248.1	N/A	N/A
Turkey Creek	145	14,486	20,466	248.3	N/A	N/A
Turkey Creek	150	14,986	20,466	248.5	N/A	N/A
Turkey Creek	155	15,486	20,466	248.6	N/A	N/A
Turkey Creek	157	15,709	20,466	248.7	N/A	N/A
Turkey Creek	160	15,986	20,466	248.8	N/A	N/A
Turkey Creek	162	16,220	20,466	249.3	N/A	N/A
Turkey Creek	165	16,486	20,466	249.6	N/A	N/A
Turkey Creek	170	16,986	20,466	249.7	N/A	N/A
Turkey Creek	175	17,486	20,466	249.8	N/A	N/A
Turkey Creek	177	17,745	20,466	250.0	N/A	N/A
Turkey Creek	180	17,986	20,466	250.1	N/A	N/A
Turkey Creek	182	18,184	20,466	250.4	N/A	N/A
Turkey Creek	185	18,486	20,466	250.7	N/A	N/A
Turkey Creek	188	18,822	20,466	250.8	N/A	N/A
Turkey Creek	192	19,212	20,434	250.9	N/A	N/A
Turkey Creek	195	19,504	20,434	251.2	N/A	N/A
Turkey Creek	196	19,566	20,434	251.3	N/A	N/A
Turkey Creek	198	19,760	20,434	251.5	N/A	N/A
Turkey Creek	199	19,851	20,434	251.8	N/A	N/A
Turkey Creek	200	20,001	20,434	251.8	N/A	N/A
Turkey Creek	205	20,486	20,434	252.0	N/A	N/A
Turkey Creek	210	20,986	20,434	252.3	N/A	N/A
Turkey Creek	215	21,486	20,434	252.4	N/A	N/A
Turkey Creek	220	21,986	20,434	253.0	N/A	N/A

Table 25: Flood Hazard and Non-Encroachment Data for Selected Streams, continued

Flooding Source ¹	Cross Section	Stream Station ²	1% Annual Chance Flood Discharge (cfs)	1% Annual Chance Water Surface Elevation (feet NAVD88)	Non-Encroachment Width (feet)	
					Left	Right
Turkey Creek	224	22,440	20,382	253.1	N/A	N/A
Turkey Creek	226	22,630	20,382	253.4	N/A	N/A
Turkey Creek	229	22,920	20,382	253.5	N/A	N/A
Turkey Creek	234	23,400	20,382	253.5	N/A	N/A
Turkey Creek	237	23,730	20,382	253.7	N/A	N/A

¹ This table reflects all modeled cross sections; some cross sections shown in this table may not appear on the map

² Feet above mouth

³ Elevation includes backwater effects

6.4 Coastal Flood Hazard Mapping

This section is not applicable to this Flood Risk Project.

Table 26: Summary of Coastal Transect Mapping Considerations

[Not Applicable to this Flood Risk Project]

6.5 FIRM Revisions

This FIS Report and the FIRM are based on the most up-to-date information available to FEMA at the time of its publication; however, flood hazard conditions change over time. Communities or private parties may request flood map revisions at any time. Certain types of requests require submission of supporting data. FEMA may also initiate a revision. Revisions may take several forms, including Letters of Map Amendment (LOMAs), Letters of Map Revision Based on Fill (LOMR-Fs), Letters of Map Revision (LOMRs) (referred to collectively as Letters of Map Change (LOMCs)), Physical Map Revisions (PMRs), and FEMA-contracted restudies. These types of revisions are further described below. Some of these types of revisions do not result in the republishing of the FIS Report. To assure that any user is aware of all revisions, it is advisable to contact the community repository of flood-hazard data (shown in Table 31, “Map Repositories”).

6.5.1 Letters of Map Amendment

A LOMA is an official revision by letter to an effective NFIP map. A LOMA results from an administrative process that involves the review of scientific or technical data submitted by the owner or lessee of property who believes the property has incorrectly been included in a designated SFHA. A LOMA amends the currently effective FEMA map and establishes that a specific property is not located in a SFHA.

To obtain an application for a LOMA, visit www.fema.gov/floodplain-management/letter-map-amendment-loma and download the form “MT-1 Application Forms and Instructions for Conditional and Final Letters of Map Amendment and Letters of Map Revision Based on Fill”. Visit the “Flood Map-Related Fees” section to determine the cost, if any, of applying for a LOMA.

FEMA offers a tutorial on how to apply for a LOMA. The LOMA Tutorial Series can be accessed at www.fema.gov/online-tutorials.

For more information about how to apply for a LOMA, call the FEMA Map Information eXchange; toll free, at 1-877-FEMA MAP (1-877-336-2627).

6.5.2 Letters of Map Revision Based on Fill

A LOMR-F is an official revision by letter to an effective NFIP map. A LOMR-F states FEMA's determination concerning whether a structure or parcel has been elevated on fill above the base flood elevation and is, therefore, excluded from the SFHA.

Information about obtaining an application for a LOMR-F can be obtained in the same manner as that for a LOMA, by visiting www.fema.gov/floodplain-management/letter-map-amendment-loba for the "MT-1 Application Forms and Instructions for Conditional and Final Letters of Map Amendment and Letters of Map Revision Based on Fill" or by calling the FEMA Map Information eXchange, toll free, at 1-877-FEMA MAP (1-877-336-2627). Fees for applying for a LOMR-F, if any, are listed in the "Flood Map-Related Fees" section.

A tutorial for LOMR-F is available at www.fema.gov/online-tutorials.

6.5.3 Letters of Map Revision

A LOMR is an official revision to the currently effective FEMA map. It is used to change flood zones, floodplain and floodway delineations, flood elevations and planimetric features. All requests for LOMRs should be made to FEMA through the chief executive officer of the community, since it is the community that must adopt any changes and revisions to the map. If the request for a LOMR is not submitted through the chief executive officer of the community, evidence must be submitted that the community has been notified of the request.

To obtain an application for a LOMR, visit www.fema.gov/national-flood-insurance-program-flood-hazard-mapping/mt-2-application-forms-and-instructions and download the form "MT-2 Application Forms and Instructions for Conditional Letters of Map Revision and Letters of Map Revision". Visit the "Flood Map-Related Fees" section to determine the cost of applying for a LOMR. For more information about how to apply for a LOMR, call the FEMA Map Information eXchange; toll free, at 1-877-FEMA MAP (1-877-336-2627) to speak to a Map Specialist.

Previously issued mappable LOMCs (including LOMRs) that have been incorporated into the Edgefield County FIRM are listed in Table 27. Please note that this table only includes LOMCs that have been issued on the FIRM panels updated by this map revision. For all other areas within this county, users should be aware that revisions to the FIS Report made by prior LOMRs may not be reflected herein and users will need to continue to use the previously issued LOMRs to obtain the most current data.

Table 27: Incorporated Letters of Map Change

[Not Applicable to this Flood Risk Project]

6.5.4 Physical Map Revisions

Physical Map Revisions (PMRs) are an official republication of a community's NFIP map to effect changes to base flood elevations, floodplain boundary delineations, regulatory floodways and planimetric features. These changes typically occur as a result of structural works or improvements, annexations resulting in additional flood hazard areas or correction to base flood

elevations or SFHAs.

The community's chief executive officer must submit scientific and technical data to FEMA to support the request for a PMR. The data will be analyzed and the map will be revised if warranted. The community is provided with copies of the revised information and is afforded a review period. When the base flood elevations are changed, a 90-day appeal period is provided. A 6-month adoption period for formal approval of the revised map(s) is also provided.

For more information about the PMR process, please visit www.fema.gov and visit the "Flood Map Revision Processes" section.

6.5.5 Contracted Restudies

The NFIP provides for a periodic review and restudy of flood hazards within a given community. FEMA accomplishes this through a national watershed-based mapping needs assessment strategy, known as the Coordinated Needs Management Strategy (CNMS). The CNMS is used by FEMA to assign priorities and allocate funding for new flood hazard analyses used to update the FIS Report and FIRM. The goal of CNMS is to define the validity of the engineering study data within a mapped inventory. The CNMS is used to track the assessment process, document engineering gaps and their resolution, and aid in prioritization for using flood risk as a key factor for areas identified for flood map updates. Visit www.fema.gov to learn more about the CNMS or contact the FEMA Regional Office listed in Section 8 of this FIS Report.

6.5.6 Community Map History

The current FIRM presents flooding information for the entire geographic area of Edgefield County. Previously, separate FIRMs, Flood Hazard Boundary Maps (FHBM) and/or Flood Boundary and Floodway Maps (FBFM) may have been prepared for the incorporated communities and the unincorporated areas in the county that had identified SFHAs. Current and historical data relating to the maps prepared for the project area are presented in Table 28, "Community Map History." A description of each of the column headings and the source of the date is also listed below.

- *Community Name* includes communities falling within the geographic area shown on the FIRM, including those that fall on the boundary line, nonparticipating communities, and communities with maps that have been rescinded. Communities with No Special Flood Hazards are indicated by a footnote. If all maps (FHBM, FBFM, and FIRM) were rescinded for a community, it is not listed in this table unless SFHAs have been identified in this community.
- *Initial Identification Date (First NFIP Map Published)* is the date of the first NFIP map that identified flood hazards in the community. If the FHBM has been converted to a FIRM, the initial FHBM date is shown. If the community has never been mapped, the upcoming effective date or "pending" (for Preliminary FIS Reports) is shown. If the community is listed in Table 28 but not identified on the map, the community is treated as if it were unmapped.
- *Initial FHBM Effective Date* is the effective date of the first Flood Hazard Boundary Map (FHBM). This date may be the same date as the Initial NFIP Map Date.
- *FHBM Revision Date(s)* is the date(s) that the FHBM was revised, if applicable.

- *Initial FIRM Effective Date* is the date of the first effective FIRM for the community.
- *FIRM Revision Date(s)* is the date(s) the FIRM was revised, if applicable. This is the revised date that is shown on the FIRM panel, if applicable. As countywide studies are completed or revised, each community listed should have its FIRM dates updated accordingly to reflect the date of the countywide study. Once the FIRMs exist in countywide format, as Physical Map Revisions (PMR) of FIRM panels within the county are completed, the FIRM Revision Dates in the table for each community affected by the PMR are updated with the date of the PMR, even if the PMR did not revise all the panels within that community.

The initial effective date for the Edgefield County FIRMs in countywide format was 03/03/2011.

Table 28: Community Map History

Community Name	Initial Identification Date (First NFIP Map Published)	Initial FHBM Effective Date	FHBM Revision Date(s)	Initial FIRM Effective Date	FIRM Revision Date(s)
Edgefield, Town of	05/24/1974	05/24/1974	03/05/1976	02/01/2002	03/03/2011
Edgefield County, Unincorporated Areas	01/20/1978	01/20/1978	N/A	04/01/1993	03/03/2011 09/20/1995
Johnston, Town of ²	03/03/2011	N/A	N/A	03/03/2011	N/A
Trenton, Town of ^{1, 2}	03/03/2011	N/A	N/A	03/03/2011	N/A

¹ No Special Flood Hazard Areas Identified

² This community did not have a FIRM prior to the first countywide FIRM for Edgefield County

SECTION 7.0 – CONTRACTED STUDIES AND COMMUNITY COORDINATION

7.1 Contracted Studies

Table 29 provides a summary of the contracted studies, by flooding source, that are included in this FIS Report.

Table 29: Summary of Contracted Studies Included in this FIS Report

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Academy Branch	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield, Town of; Edgefield County, Unincorporated Areas

Table 29: Summary of Contracted Studies Included in this FIS Report, continued

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Academy Branch Tributary 1	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield, Town of
Academy Branch Tributary 2	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield, Town of
Beaverdam Creek	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield, Town of; Edgefield County, Unincorporated Areas
Beaverdam Creek Tributary 1	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
Beaverdam Creek Tributary 2	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield, Town of
Beaverdam Creek Tributary 3	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield, Town of
Beaverdam Creek Tributary 4	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
Beaverdam Creek Tributary 4-1	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
Beech Creek	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas

Table 29: Summary of Contracted Studies Included in this FIS Report, continued

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Bell Branch	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
Big Creek	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
Bliss Creek	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
Buzzard Branch	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
Cedar Creek	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
Cheves Creek	TBD	AECOM	(CTP) EMA-2013-CA-5358	June 2015	Edgefield County, Unincorporated Areas
Cheves Creek Tributary 1	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
Crooked Run	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
Cuffey Branch	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas

Table 29: Summary of Contracted Studies Included in this FIS Report, continued

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Cyper Creek	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
Double Branches	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
Dry Branch	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
Dry Creek	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
Dunn Creek	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
Fox Creek	09/04/1979	USACE	(IAA) H-7-76, Project Order No. 23; (IAA) H-10-77, Project Order No. 2	February 1978	Edgefield County, Unincorporated Areas
Gilroy Branch	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
Goff Branch	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
Grandpa Creek	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas

Table 29: Summary of Contracted Studies Included in this FIS Report, continued

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Gundy Creek	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
Horn Creek	TBD	AECOM	(CTP) EMA-2013-CA-5358	June 2015	Edgefield County, Unincorporated Areas
Hunters Creek	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
Jim Branch	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
Jimmy Creek	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
Lick Fork	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
Little Mountain Creek	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
Little Stevens Creek	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
Little Stevens Creek Tributary 1	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas

Table 29: Summary of Contracted Studies Included in this FIS Report, continued

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Little Turkey Creek	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Johnston, Town of; Edgefield County, Unincorporated Areas
Little Turkey Creek Tributary 1	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Johnston, Town of; Edgefield County, Unincorporated Areas
Lloyd Creek	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
Log Creek	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
Long Cane Creek	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
Mountain Creek	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
Paces Branch	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
Par Creek	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
Pike Branch	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas

Table 29: Summary of Contracted Studies Included in this FIS Report, continued

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Quarles Creek	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
Reedy Branch	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
Rock Creek	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
Rocky Creek	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
Rocky Creek East	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
Savannah River	TBD	AECOM	(CTP) EMA-2013-CA-5358	June 2015	Edgefield County, Unincorporated Areas
Savannah River	11/02/1994	USACE; FEMA	—	February 1994	Edgefield County, Unincorporated Areas
Shaw Creek	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
Sleepy Creek	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
South Fork Edisto River	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas

Table 29: Summary of Contracted Studies Included in this FIS Report, continued

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Stevens Creek	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
Stevens Creek	TBD	AECOM	(CTP) EMA-2013-CA-5358	June 2015	Edgefield County, Unincorporated Areas
Stevens Creek Tributary 3	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
Stevens Creek Tributary 4	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
Stevens Creek Tributary 5	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
Stevens Creek Tributary 6	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
Stockman Branch	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
Sweetwater Branch	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
Tobler Creek	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
Turkey Creek	TBD	AECOM	(CTP) EMA-2013-CA-5358	June 2015	Edgefield County, Unincorporated Areas

Table 29: Summary of Contracted Studies Included in this FIS Report, continued

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Turkey Creek	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas
Williams Branch	03/03/2011	Watershed Concepts	(CTP) EMA-2007-CA-5773; (CTP) EMA-2008-CA-5885; SC MapMod P24-N085-MJ	March 2011	Edgefield County, Unincorporated Areas

7.2 Community Meetings

The dates of the community meetings held for this Flood Risk Project and previous Flood Risk Projects are shown in Table 30. These meetings may have previously been referred to by a variety of names (Community Coordination Officer (CCO), Scoping, Discovery, etc.), but all meetings represent opportunities for FEMA, community officials, study contractors, and other invited guests to discuss the planning for and results of the project.

Table 30: Community Meetings

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Edgefield, Town of	TBD	06/19/2013	Discovery	Federal Emergency Management Agency (FEMA), Georgia Department of Natural Resources (GDNR), the Office of Congressman Duncan, South Carolina Department of Natural Resources (SCDNR), South Carolina Department of Transportation (SCDoT), South Carolina Emergency Management Division (SCEMD), Upper Savannah Council of Governments (USCoG), and the study contractor (AECOM)
		*	Final CCO	*
	03/03/2011	05/02/2008	Scoping	FEMA, SCDNR, USCoG, this community, and the study contractor (AECOM)
		11/10/2009	PDCC	SCDNR, this community, and the study contractor (AECOM)
Edgefield County, Unincorporated Areas	TBD	06/19/2013	Discovery	FEMA, GDNR, the Office of Congressman Duncan, SCDNR, SCDoT, SCEMD, USCoG, this community, and the study contractor (AECOM)
		*	Final CCO	*
	03/03/2011	05/02/2008	Scoping	FEMA, SCDNR, USCoG, this community, and the study contractor (AECOM)
		11/10/2009	PDCC	SCDNR, and the study contractor (AECOM)
Johnston, Town of	03/03/2011	05/02/2008	Scoping	FEMA, SCDNR, USCoG, and the study contractor (AECOM)
		11/10/2009	PDCC	SCDNR, and the study contractor (AECOM)
Trenton, Town of	03/03/2011	05/02/2008	Scoping	FEMA, SCDNR, USCoG, and the study contractor (AECOM)
		11/10/2009	PDCC	SCDNR, and the study contractor (AECOM)

* Data not available

SECTION 8.0 – ADDITIONAL INFORMATION

Information concerning the pertinent data used in the preparation of this FIS Report can be obtained by submitting an order with any required payment to the FEMA Engineering Library. For more information on this process, see www.fema.gov.

The additional data that was used for this project includes the FIS Report and FIRM that were previously prepared for Edgefield County, South Carolina and Incorporated Areas (FEMA, 2011).

Table 31 is a list of the locations where FIRMs for Edgefield County can be viewed. Please note that the maps at these locations are for reference only and are not for distribution. Also, please note that only the maps for the community listed in the table are available at that particular repository. A user may need to visit another repository to view maps from an adjacent community.

Table 31: Map Repositories

Community	Address	City	State	Zip Code
Edgefield, Town of	Town Hall 400 Main Street	Edgefield	SC	29824
Edgefield County, Unincorporated Areas	Edgefield County Building Department 210 Penn Street	Edgefield	SC	29824
Johnston, Town of	Clerk's Office 500 Mims Avenue	Johnston	SC	29832
Trenton, Town of ¹	Town Hall 106 Church Street	Trenton	SC	29847

¹ No Special Flood Hazard Areas Identified

The National Flood Hazard Layer (NFHL) dataset is a compilation of effective FIRM databases and LOMCs. Together they create a GIS data layer for a State or Territory. The NFHL is updated as studies become effective and extracts are made available to the public monthly. NFHL data can be viewed or ordered from the website shown in Table 32.

Table 32 contains useful contact information regarding the FIS Report, the FIRM, and other relevant flood hazard and GIS data. In addition, information about the State NFIP Coordinator and GIS Coordinator is shown in this table. At the request of FEMA, each Governor has designated an agency of State or territorial government to coordinate that State's or territory's NFIP activities. These agencies often assist communities in developing and adopting necessary floodplain management measures. State GIS Coordinators are knowledgeable about the availability and location of state and local GIS data in their state.

Table 32: Additional Information

FEMA and the NFIP	
FEMA and FEMA Engineering Library website	www.fema.gov/national-flood-insurance-program-flood-hazard-mappin/engineering-library
NFIP website	www.fema.gov/national-flood-insurance-program
NFHL Dataset	msc.fema.gov
FEMA Region IV	Federal Emergency Management Agency, 3003 Chamblee Tucker Road, Atlanta, GA 30341 (770) 220-5200
Other Federal Agencies	
USGS website	www.usgs.gov
Hydraulic Engineering Center website	www.hec.usace.army.mil
State Agencies and Organizations	
State NFIP Coordinator	Maria Cox Lamm, CFM South Carolina Department of Natural Resources 1000 Assembly St. Columbia, SC 29201 P.O. Box 167 Columbia, SC 29202 P 803-734-3672 F 803-734-3457 CoxM@dnr.sc.gov
State Hazard Mitigation Officer	Katie Norris South Carolina Emergency Management Division 2779 Fish Hatchery Road West Columbia, SC 29172 P 803-737-8500 F 803-737-8570 knorris@emd.state.sc.us
State GIS Coordinator	Dr. Tim De Troye, GISP Technology Development Program Director 1000 Assembly St. Columbia, SC 29201 P 803-734-3894 F 803-734-3457 detroyet@gis.sc.gov

SECTION 9.0 – BIBLIOGRAPHY AND REFERENCES

Table 33 includes sources used in the preparation of and cited in this FIS Report as well as additional studies that have been conducted in the study area.

Table 33: Bibliography and References

Citation in this FIS	Publisher/ Issuer	<i>Publication Title, "Article," Volume, Number, etc.</i>	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
FEMA, 1978	Federal Emergency Management Agency	<i>Flood Insurance Study, Saluda County, South Carolina, Unincorporated Areas</i>		Washington, D.C.	January 1978	FEMA Flood Map Service Center msc.fema.gov
FEMA, 1989	Federal Emergency Management Agency	<i>Flood Insurance Study, Greenwood County, South Carolina, Unincorporated Areas</i>		Washington, D.C.	October 1989	FEMA Flood Map Service Center msc.fema.gov
FEMA, 1994(a)	Federal Emergency Management Agency	<i>Flood Insurance Study, Aiken County, South Carolina, Unincorporated Areas</i>		Washington, D.C.	November 1994	FEMA Flood Map Service Center msc.fema.gov
FEMA, 1994(b)	Federal Emergency Management Agency	<i>Flood Insurance Study, City of North Augusta Aiken and Edgefield Counties, South Carolina</i>		Washington, D.C.	August 1994	FEMA Flood Map Service Center msc.fema.gov
FEMA, 1994(c)	Federal Emergency Management Agency	<i>Savannah River Appeal Resolution Summary of Technical Issues</i>		Washington, D.C.	February 1994	FEMA Flood Map Service Center msc.fema.gov
FEMA, 1995(a)	Federal Emergency Management Agency	<i>Flood Insurance Study, Richmond County, Georgia, Unincorporated Areas</i>		Washington, D.C.	January 1995	FEMA Flood Map Service Center msc.fema.gov
FEMA, 1995(b)	Federal Emergency Management Agency	<i>Flood Insurance Study, McCormick County, South Carolina, Unincorporated Areas</i>		Washington, D.C.	September 1995	FEMA Flood Map Service Center msc.fema.gov
FEMA, 1995(c)	Federal Emergency Management Agency	<i>Flood Insurance Study, Columbia County, Georgia, Unincorporated Areas</i>		Washington, D.C.	September 1995	FEMA Flood Map Service Center msc.fema.gov

Table 33: Bibliography and References, continued

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
FEMA, 2011	Federal Emergency Management Agency	<i>Flood Insurance Study, Edgefield County, South Carolina and Incorporated Areas</i>		Washington, D.C.	2011	FEMA Flood Map Service Center msc.fema.gov
FEMA, 2012	Federal Emergency Management Agency	<i>Flood Insurance Study, Aiken County, South Carolina and Incorporated Areas</i>		Washington, D.C.	2012	FEMA Flood Map Service Center msc.fema.gov
FEMA, 2016	Federal Emergency Management Agency	<i>Preliminary Flood Insurance Study, Aiken County, South Carolina and Incorporated Areas</i>		Washington, D.C.	2016	FEMA Flood Map Service Center msc.fema.gov
GDOT, 1988	Georgia Department of Transportation	<i>S.R. 28 (Sandbar Ferry Road) Over Savannah River Plan and Elevation, Sheet 1 and 2 of 40, Revised March 22, 1988</i>		Savannah, GA	March 1988	
Seaboard, 1976	Seaboard Coast Line Railroad Company	<i>Lower Savannah River Near Augusta, Georgia, General Layout, Scale 1"=20', Drawing No. AK 456.3-210, -211, -212, October 11, 1976</i>		Savannah, GA	October 1976	
Towill, Inc., 2012	Towill, Inc. / Dewberry / SCDNR	<i>LiDAR Data, Scale 1 Meter, Contour Interval 5 Feet</i>	Jeff Poplin, Brian Mayfield, Jim Scurry	Columbia, SC	2012	
USACE, 1959	U.S. Department of the Army, Corps of Engineers	<i>Backwater Curves in River Channels, Engineering Manual, EM-1110-2-1409</i>		Washington, D.C.	1959	U.S. Army Corps of Engineers www.usace.army.mil/

Table 33: Bibliography and References, continued

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
USACE, 1988	U.S. Department of the Army, Corps of Engineers	<i>Savannah River Channel Capacity Study</i>		Savannah, GA	August 1988	U.S. Army Corps of Engineers www.usace.army.mil/
USACE, 1973(a)	U.S. Department of the Army, Corps of Engineers, Hydrologic Engineering Center	<i>HEC-2 Water Surface Profiles, Generalized Computer Program, 723-X6-L202A</i>		Davis, CA	October 1973	U.S. Army Corps of Engineers Hydrologic Engineering Center www.hec.usace.army.mil/
USACE, 1973(b)	U.S. Department of the Army, Corps of Engineers, Hydrologic Engineering Center	<i>HEC-2 Water Surface Profiles, Generalized Computer Program, 723-X6-L202A User's Manual</i>		Davis, CA	October 1973	U.S. Army Corps of Engineers Hydrologic Engineering Center www.hec.usace.army.mil/
USACE, 1974	U.S. Department of the Army, Corps of Engineers, Hydrologic Engineering Center	<i>Calculation of Water Surface Profiles Through Bridges, Training Document 6</i>		Davis, CA	1974	U.S. Army Corps of Engineers Hydrologic Engineering Center www.hec.usace.army.mil/
USACE, 1991(a)	U.S. Department of the Army, Corps of Engineers, Hydrologic Engineering Center	<i>HEC-2 Water Surface Profiles, Generalized Computer Program</i>		Davis, CA	May 1991	U.S. Army Corps of Engineers Hydrologic Engineering Center www.hec.usace.army.mil/
USACE, 1991(b)	U.S. Department of the Army, Corps of Engineers, Hydrologic Engineering Center	<i>HEC-2 Water Surface Profiles, Generalized Computer Program, User's Manual</i>		Davis, CA	September 1991	U.S. Army Corps of Engineers Hydrologic Engineering Center www.hec.usace.army.mil/
USACE, 2005	U.S. Department of the Army, Corps of Engineers, Hydrologic Engineering Center	<i>HEC-RAS (Riverine Analysis System) ver. 3.1.3, Generalized Computer Program</i>		Davis, CA	May 2005	U.S. Army Corps of Engineers Hydrologic Engineering Center www.hec.usace.army.mil/

Table 33: Bibliography and References, continued

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
USACE, 2010	U.S. Department of the Army, Corps of Engineers, Hydrologic Engineering Center	<i>HEC-RAS (Riverine Analysis System) ver. 4.1.0, Generalized Computer Program</i>		Davis, CA	January 2010	U.S. Army Corps of Engineers Hydrologic Engineering Center www.hec.usace.army.mil/
U.S. Census, 2000	U.S. Department of Commerce, Bureau of the Census	<i>2000 Census Population and Housing Data</i>		Washington, D.C.	2000	www.census.gov/
NOAA, 2009	U.S. Department of Commerce, National Oceanic and Atmospheric Administration	<i>"Storm Events" - Online</i>		Website. accessed January 6, 2009	2009	NOAA National Climatic Data Center www.ncdc.noaa.gov/stormevents/
FIA, 1978	U.S. Department of Housing and Urban Development, Federal Insurance Administration	<i>Flood Hazard Boundary Maps, Edgefield County, Unincorporated Areas, South Carolina</i>		Washington, D.C.	January 1978	FEMA Flood Map Service Center msc.fema.gov
USGS, 1971(a)	U.S. Department of the Interior, Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 10 Feet, Augusta East, SC-GA, 1965, Photorevised 1971</i>		Washington, D.C.	1971	USGS Store store.usgs.gov/
USGS, 1971(b)	U.S. Department of the Interior, Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 10 Feet, North Augusta, SC-GA, 1964, Photorevised 1971</i>		Washington, D.C.	1971	USGS Store store.usgs.gov/

Table 33: Bibliography and References, continued

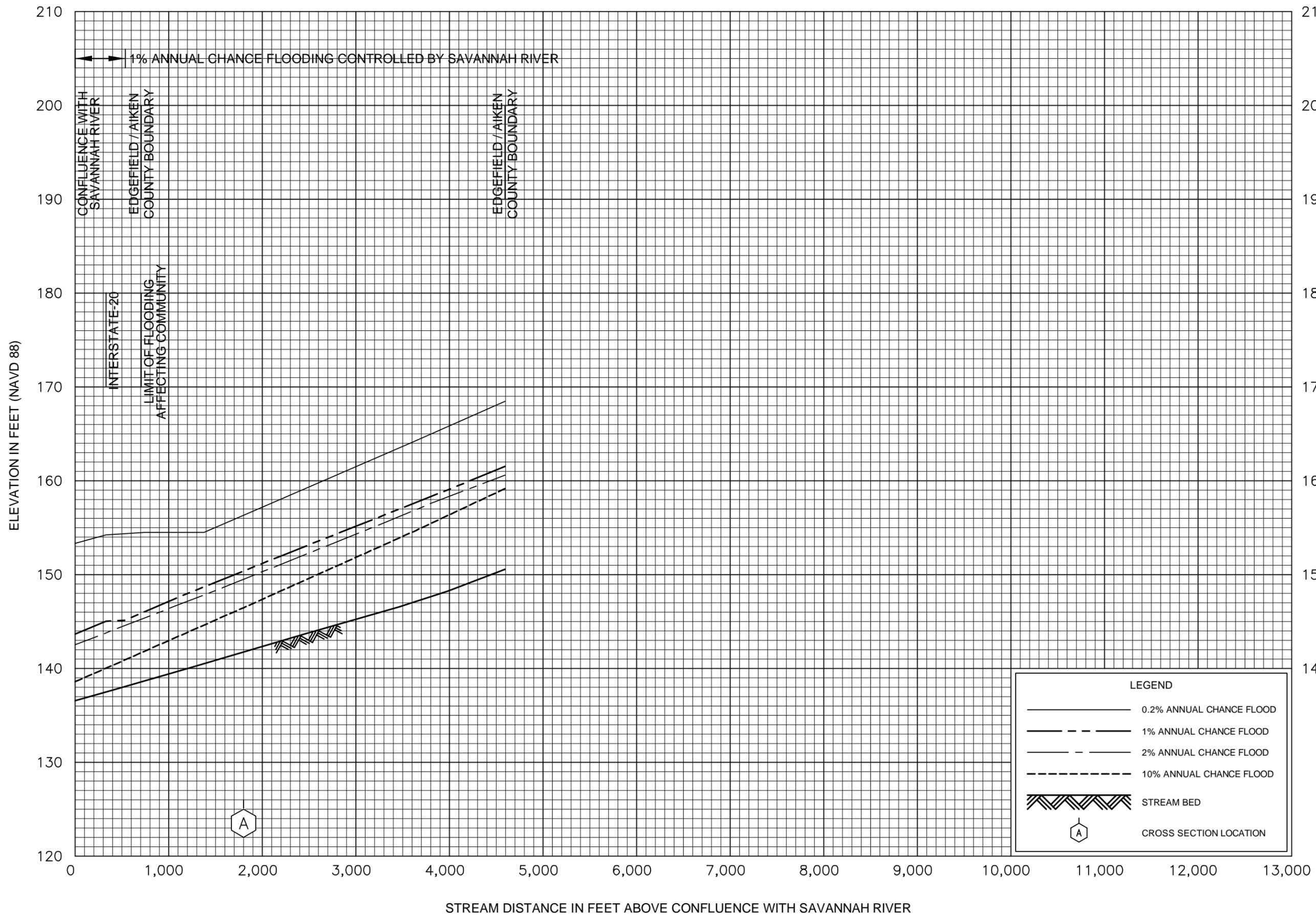
Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
USGS, 1980(a)	U.S. Department of the Interior, Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 10 Feet, Martinez, GA-SC, 1964, Photorevised 1980</i>		Washington, D.C.	1980	USGS Store store.usgs.gov/
USGS, 1980(b)	U.S. Department of the Interior, Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 10 Feet, North Augusta, SC-GA, 1964, Photorevised 1980</i>		Washington, D.C.	1980	USGS Store store.usgs.gov/
USGS, 1981	U.S. Department of the Interior, Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 10 Feet, Augusta East, GA-SC, 1965, Photorevised 1981</i>		Washington, D.C.	1981	USGS Store store.usgs.gov/
USGS, 1982(a)	U.S. Department of the Interior, Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 10 Feet, Edgefield, SC, 1964, Photorevised 1982</i>		Washington, D.C.	1982	USGS Store store.usgs.gov/
USGS, 1982(b)	U.S. Department of the Interior, Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 10 Feet, Johnston, SC, 1964, Photorevised 1982</i>		Washington, D.C.	1982	USGS Store store.usgs.gov/

Table 33: Bibliography and References, continued

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
USGS, 1982(c)	U.S. Department of the Interior, Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 10 Feet, Trenton, SC, 1964, Photorevised 1982</i>		Washington, D.C.	1982	USGS Store store.usgs.gov/
USGS, 1982(d)	U.S. Department of the Interior, Geological Survey	<i>Guidelines for Determining Flood Flow Frequency, Hydrology Subcommittee, Bulletin #17B</i>		Reston, VA	1982	water.usgs.gov/osw/bulletin17b/dl_flow.pdf
USGS, 1990	U.S. Department of the Interior, Geological Survey	<i>Flood Frequency of the Savannah River at Augusta, Georgia, Water-Resources Investigations Report, 90-4024</i>	Curtis L. Sanders, Jr., Harold E. Kubik, Joseph T. Hoke, Jr., William H. Kirby	Columbia, SC	1990	USGS Publication Warehouse pubs.er.usgs.gov/publication/wri904024
USGS, 2002	U.S. Department of the Interior, Geological Survey	<i>Techniques for Estimating the Magnitude and Frequency of Floods in Rural Basins of South Carolina, 1999, Water-Resources Investigations Report, 02-4140</i>	Toby D. Feaster, Gary D. Tasker	Columbia, SC	2002	USGS Publication Warehouse pubs.usgs.gov/wri/wri024140/pdf/wrir02-4140.pdf
USGS, 2006(a)	U.S. Department of the Interior, Geological Survey	<i>User's Manual for Program PeakFQ, Annual Flood-Frequency Analysis Using Bulletin 17B Guidelines, Techniques and Methods 4-B4, (Book 4, Section B, Chapter 4)</i>	Kathleen M. Flynn, William H. Kirby, Paul R. Hummel	Reston, VA	2006	USGS Publication Warehouse pubs.usgs.gov/tm/2006/tm4b4/tm4b4.pdf

Table 33: Bibliography and References, continued

Citation in this FIS	Publisher/ Issuer	<i>Publication Title, "Article,"</i> Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
USGS, 2006(b)	U.S. Department of the Interior, Geological Survey	<i>Estimating Magnitude and Frequency of Floods Using the PeakFQ Program,</i> Fact Sheet 2006-3143	Kathleen M. Flynn, William H. Kirby, Robert Mason, Timothy A. Cohn	Reston, VA	December 2006	USGS Publication Warehouse pubs.usgs.gov/fs/2006/3143/FS_2006-3143.pdf
Walden, 1994	Walden, Ashworth, & Associates, Inc.	<i>HEC-2 Calibration Models,</i> January 27, 1994			January 1994	unpublished



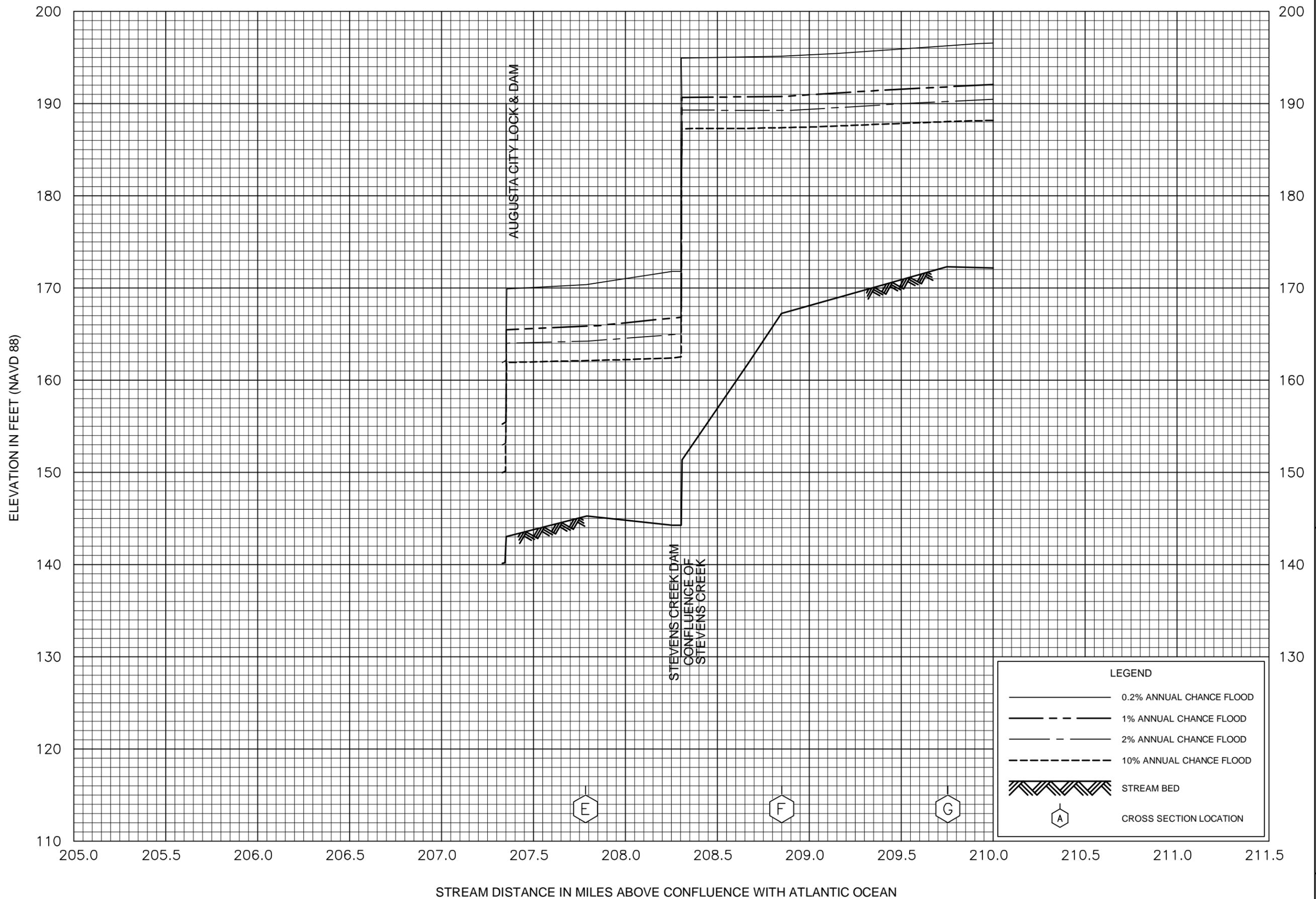
FLOOD PROFILES

FOX CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

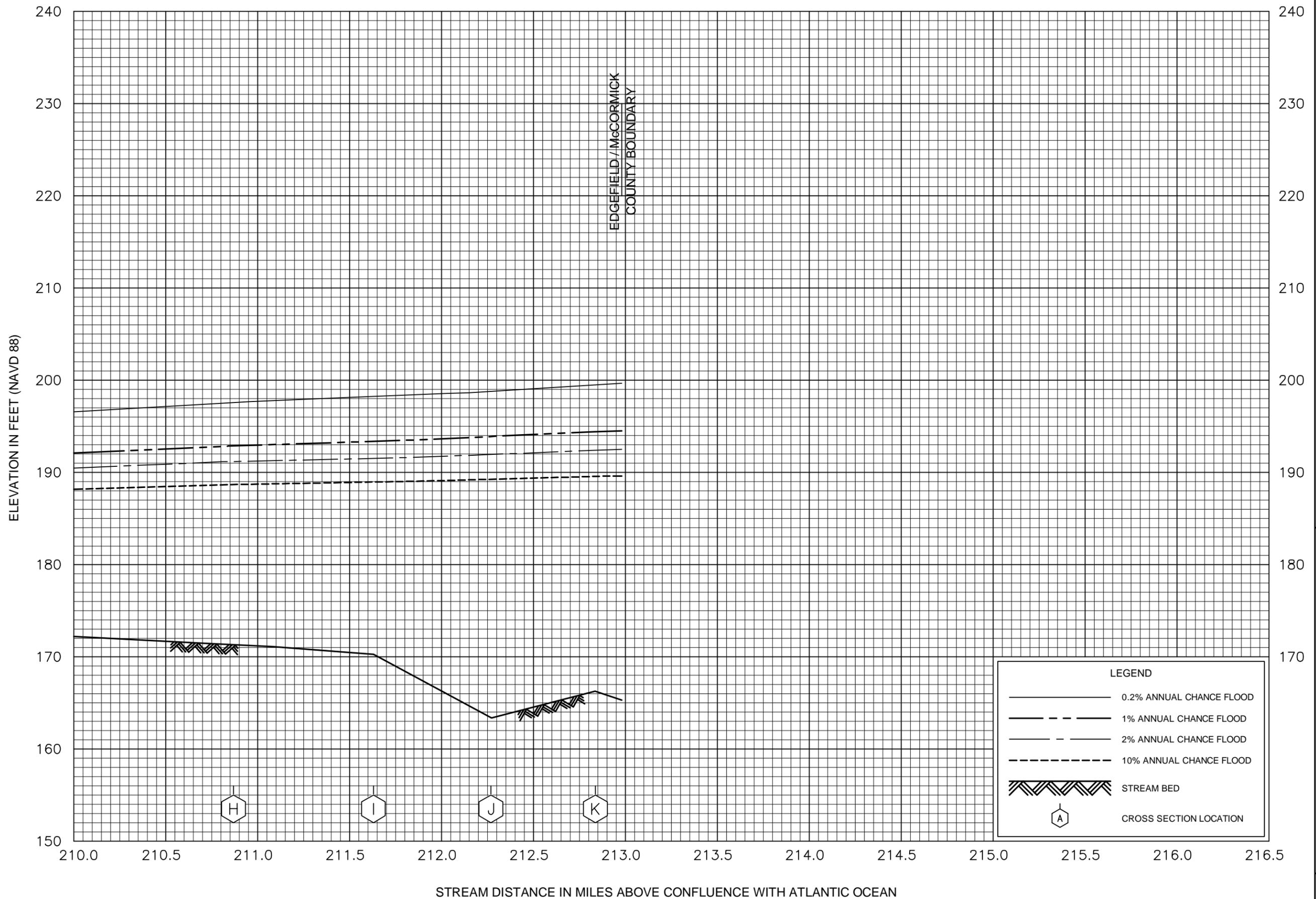
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AND INCORPORATED AREAS



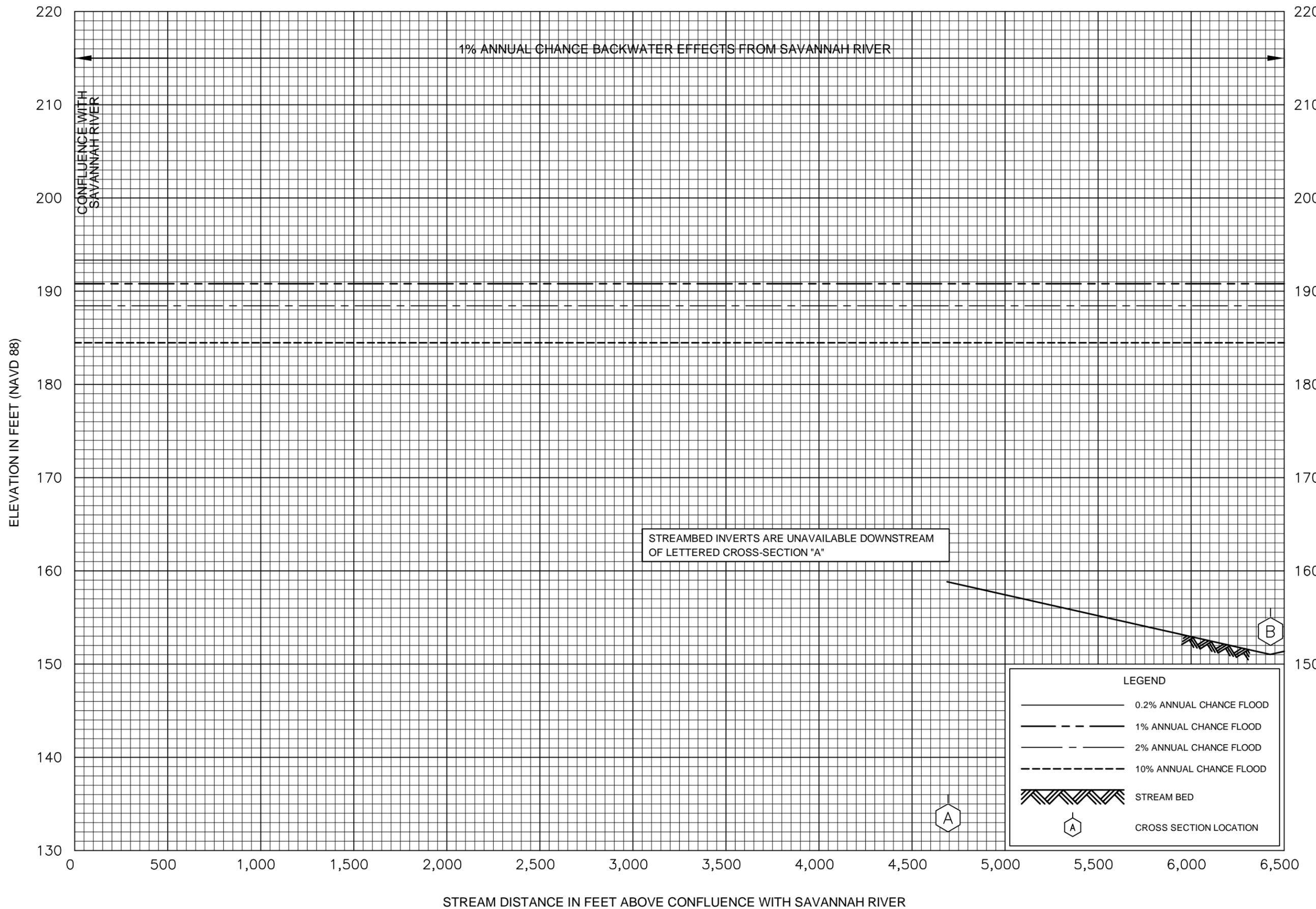
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SAVANNAH RIVER

FEDERAL EMERGENCY MANAGEMENT AGENCY
EDGEFIELD COUNTY, SC
AND INCORPORATED AREAS



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SAVANNAH RIVER

FEDERAL EMERGENCY MANAGEMENT AGENCY
EDGEFIELD COUNTY, SC
AND INCORPORATED AREAS



FLOOD PROFILES

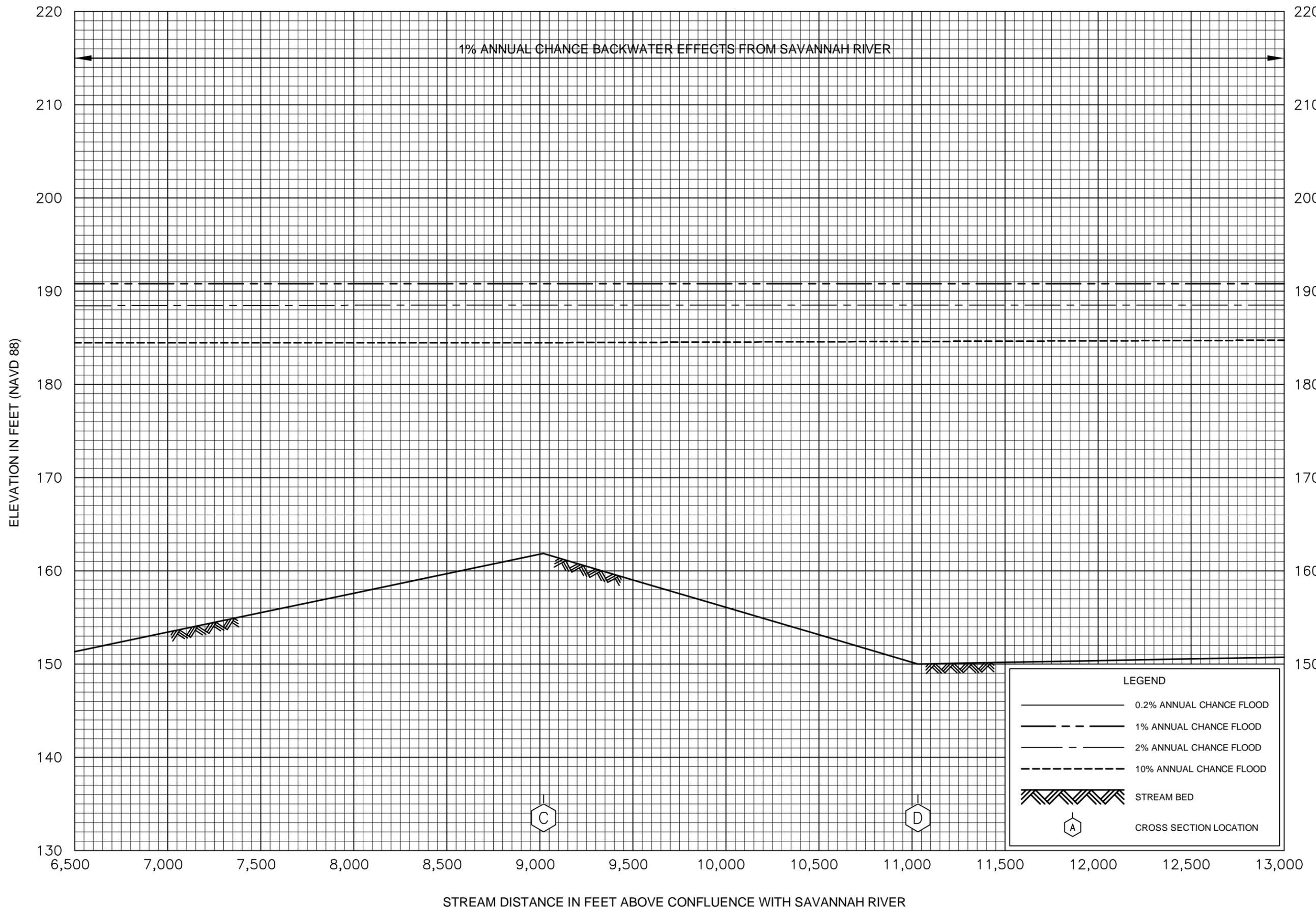
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FEDERAL EMERGENCY MANAGEMENT AGENCY

EDGEFIELD COUNTY, SC

AND INCORPORATED AREAS

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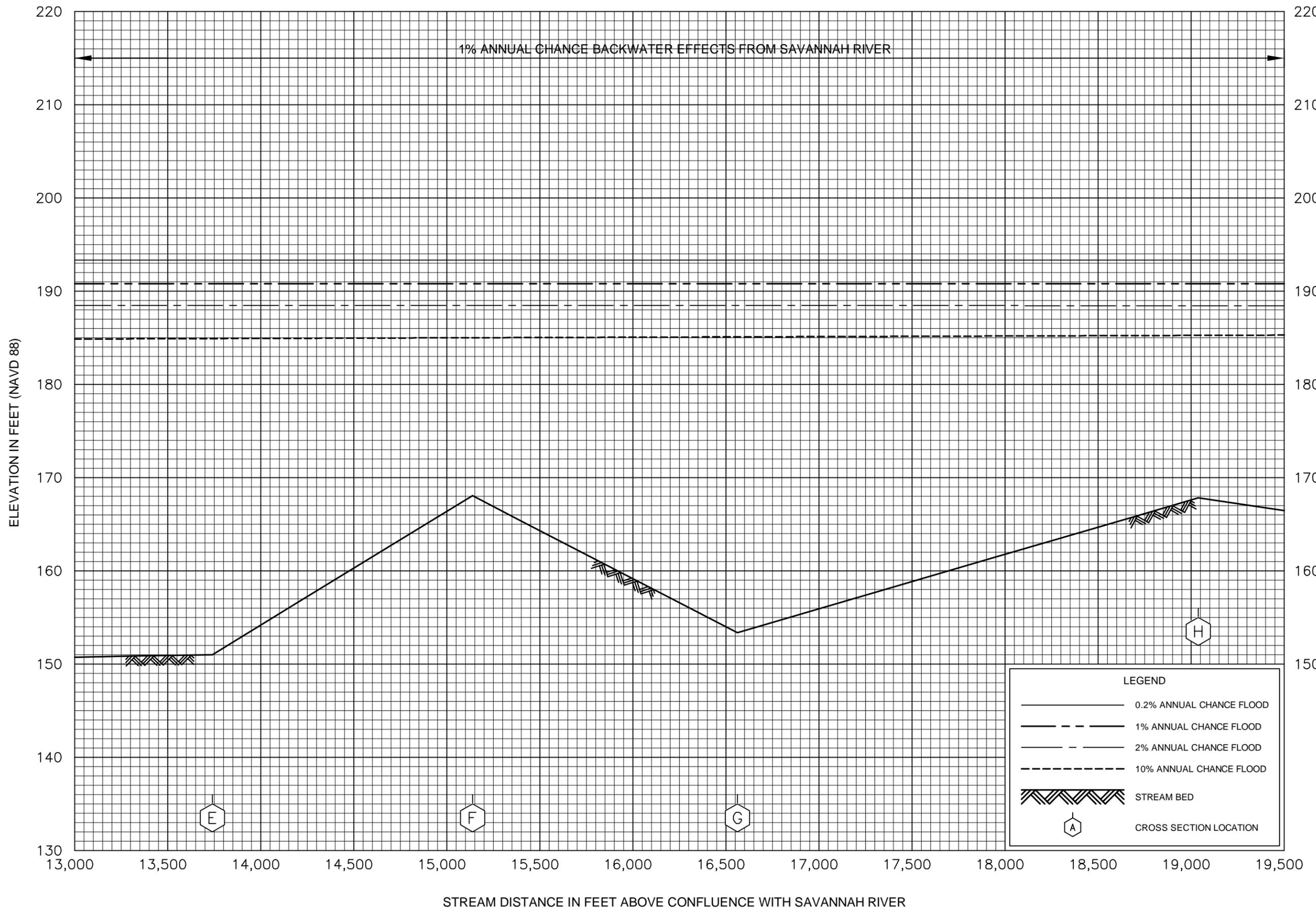
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STEVENS CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

EDGEFIELD COUNTY, SC
AND INCORPORATED AREAS

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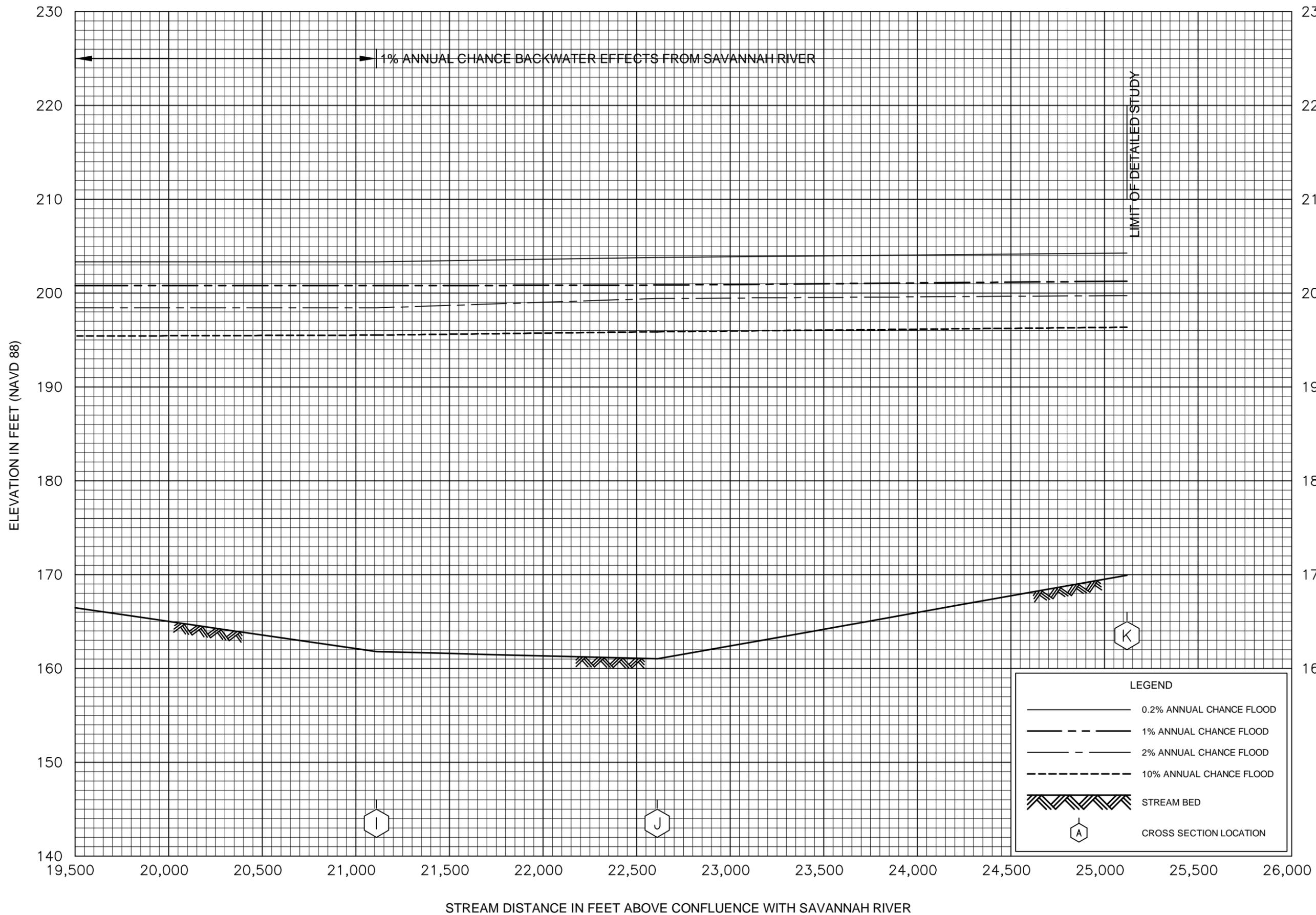
FLOOD PROFILES

STEVENS CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

EDGEFIELD COUNTY, SC
AND INCORPORATED AREAS

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FLOOD PROFILES
STEVENS CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY
EDGEFIELD COUNTY, SC
AND INCORPORATED AREAS