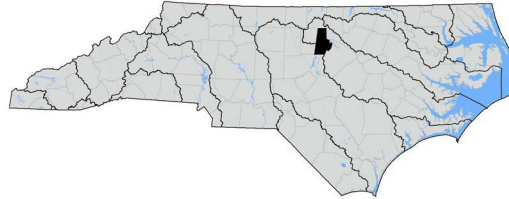


FLOOD INSURANCE STUDY

FEDERAL EMERGENCY MANAGEMENT AGENCY

A Report of Flood Hazards in
**DURHAM COUNTY,
NORTH CAROLINA AND
INCORPORATED AREAS**



Community Name	Community Number
CITY OF DURHAM	370086
CITY OF RALEIGH	370243
DURHAM COUNTY	370085
TOWN OF CHAPEL HILL	370180
TOWN OF MORRISVILLE	370242



REVISED: 7/19/2022
Federal Emergency Management Agency
State of North Carolina
Flood Insurance Study Number
37063CV000E
www.fema.gov and www.ncfloodmaps.com



FOREWORD

This countywide Flood Insurance Study (FIS) Report was produced through a unique cooperative partnership between the State of North Carolina and the Federal Emergency Management Agency (FEMA). The State of North Carolina has implemented a long-term approach to floodplain management to decrease the costs associated with flooding. This is demonstrated by the State's commitment to map floodplain areas at the state level. As a part of this effort, the State of North Carolina has joined with FEMA in a Cooperating Technical State (CTS) agreement to produce and maintain this FIS Report and the accompanying digital Flood Insurance Rate Map (FIRM) for North Carolina.

Flood Insurance Study (FIS) means an examination, evaluation, and determination of flood hazards, corresponding water surface elevations, flood hazard risk zones, and other flood data in a community issued by the North Carolina Floodplain Mapping Program (NCFMP). The Flood Insurance Study (FIS) is comprised of the following products used together: the Digital Flood Hazard Database, the Water Surface Elevation Rasters, the digitally derived, autogenerated Flood Insurance Rate Map and the Flood Insurance Survey Report. A Flood Insurance Survey is a compilation and presentation of flood risk data for specific watercourses, lakes, and coastal flood hazard areas within a community. This report contains detailed flood elevation data, data tables and FIRM indices. When a flood study is complete for the National Flood Insurance Program (NFIP), the digital information, reports and maps are assembled into a FIS. Information shown on in the FIS is provided in digital format by the NCFMP.

NOTICE TO FLOOD INSURANCE STUDY USERS

Communities participating in the National Flood Insurance Program have established repositories of flood hazard data for floodplain management and flood insurance purposes. This Flood Insurance Study (FIS) may not contain all data available within the North Carolina Floodplain Mapping Program. It is advisable to use www.fris.nc.gov/fris or contact the community repository for any additional data.

The following is a list of the publication dates of this Countywide FIS report starting with the initial Report accompanying the North Carolina Statewide FIRM:

Date	Reason
5/2/2006	Initial Statewide FIS Report Effective Date
8/2/2007	A portion of the County received new H&H analysis
10/19/2018	A portion of the County received new H&H analysis
12/6/2019	A portion of the County received new H&H analysis
7/19/2022	Countywide FIS Update

This FIS has been produced as part of the North Carolina Floodplain Mapping Program. Durham County, North Carolina, falls under the administrative jurisdiction of Region IV of the Federal Emergency Management Agency (FEMA). Questions concerning this FIS may be directed to the North Carolina Floodplain Mapping Program at www.ncfloodmaps.com, the FEMA Map Assistance Center by calling the toll-free information line at 1-877-FEMA MAP (1-877-336-2627), or by contacting the FEMA Regional Office at the following address:

FEMA, Federal Insurance and Mitigation Administration
Koger Center - Rutgers Building
3005 Chamblee Tucker Road
Atlanta, Georgia 30341
(770) 220-5402

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1.0 Introduction

1.1 The National Flood Insurance Program

In 1968, Congress created the National Flood Insurance Program (NFIP) in response to the rising cost of taxpayer-funded disaster relief for flood victims and the increasing amount of damage caused by floods. The NFIP makes federally backed flood insurance available in communities that agree to adopt and enforce floodplain management ordinances to reduce future flood damage. Federally backed flood insurance is available in more than 19,000 communities across the United States and its territories.

The NFIP is managed by the Federal Insurance and Mitigation Administration of the Federal Emergency Management Agency (FEMA). The Federal Insurance and Mitigation Administration manages the insurance component of the NFIP and oversees the flood hazard mapping and the floodplain management aspects of the program.

The NFIP, through involvement with communities, the insurance industry, and the lending industry, helps reduce flood damage by nearly \$800 million a year. Further, buildings constructed in compliance with NFIP building standards suffer approximately 80% less damage annually than those not built in compliance. In addition, every \$3 paid in flood insurance claims saves \$1 in disaster assistance payments. The NFIP is self-supporting for the average historical loss year, which means that operating expenses and flood insurance claims are not paid by the taxpayer, but through premiums collected for flood insurance policies.

Additional information of interest to homeowners, community officials, insurance companies, lenders, and study contractors is available in Section 9.0 of this FIS Report and on the NFIP Internet homepage at <http://www.fema.gov/business/nfip/>.

1.2 Purpose of this Flood Insurance Study

Flood Insurance Studies (FISs) are one of the primary means by which the NFIP administers the National Flood Insurance Act of 1968, the Flood Disaster Protection Act of 1973, and the National Flood Insurance Reform Act of 1994. FISs develop flood risk data that are used to establish actuarial flood insurance rates. The information in this FIS Report will also be used by Durham County and the jurisdictions therein (hereinafter referred to collectively as Durham County) to facilitate the adoption and maintenance of floodplain management ordinances, which form the basis of communities' continued participation in the NFIP. Minimum requirements for participation in the NFIP are set forth in Title 44, Part 60, Section 3 of the Code of Federal Regulations (44 CFR 60.3). In some States and/or communities, floodplain management criteria or regulations may exist that are more restrictive than the minimum Federal requirements. In such cases, the more restrictive criteria will take precedence, and the State and/or community (or other jurisdictional agency) will be able to explain them.

This FIS investigates the existence and severity of flood hazards in, or revises and updates previous FISs for, the geographic area of Durham County, North Carolina, including the jurisdictions listed in Table 1.

Table 1 - Jurisdictions in Durham County

Community	Included in this FIS	If Not Included, Location of Flood Hazard/Flood Insurance Rate Data
CITY OF DURHAM	Yes	
CITY OF RALEIGH	Yes	
DURHAM COUNTY	Yes	
TOWN OF CHAPEL HILL	Yes	
TOWN OF MORRISVILLE	Yes	

1.3 FIS Components

A Flood Insurance Study (FIS) is an analysis of flood hazards, typically presented as a set of Flood Insurance Rate Map (FIRM) panels and the FIS Report, which includes a set of Flood Profiles and/or Water-surface elevation rasters.

Flood Insurance Study Report

The FIS Report provides a context for the information shown on the FIRM, as well as a summary of the data upon which the analyses are based. It also includes an index of sources of additional information on the NFIP.

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).

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 28, "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 Durham became Effective on 5/2/2006. Refer to Table 24 for information about subsequent revisions to FIRMs.

Selected FIRM panels for the community may contain information (such as floodways and cross sections) that was previously shown separately on the corresponding Flood Boundary and Floodway Map panels. In addition, former flood hazard zone designations have been changed as follows:

Old Zone	New Zone
A1 through A30	AE
V1 through V30	VE
B	X (shaded)
C	X (unshaded)

FEMA does not impose floodplain management requirements or special insurance ratings based on Limit of Moderate Wave Action (LiMWA) delineations at this time. The LiMWA represents the approximate landward limit of the 1.5-foot breaking wave. If the LiMWA is shown on the FIRM, it is being provided by FEMA as information only. For communities that do adopt Zone VE building standards in the area defined by the LiMWA, additional Community Rating System (CRS) credits are available. Refer to Section 2.5.4 for additional information about the LiMWA.

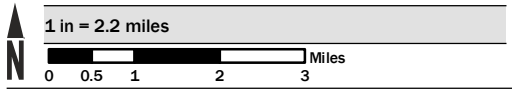
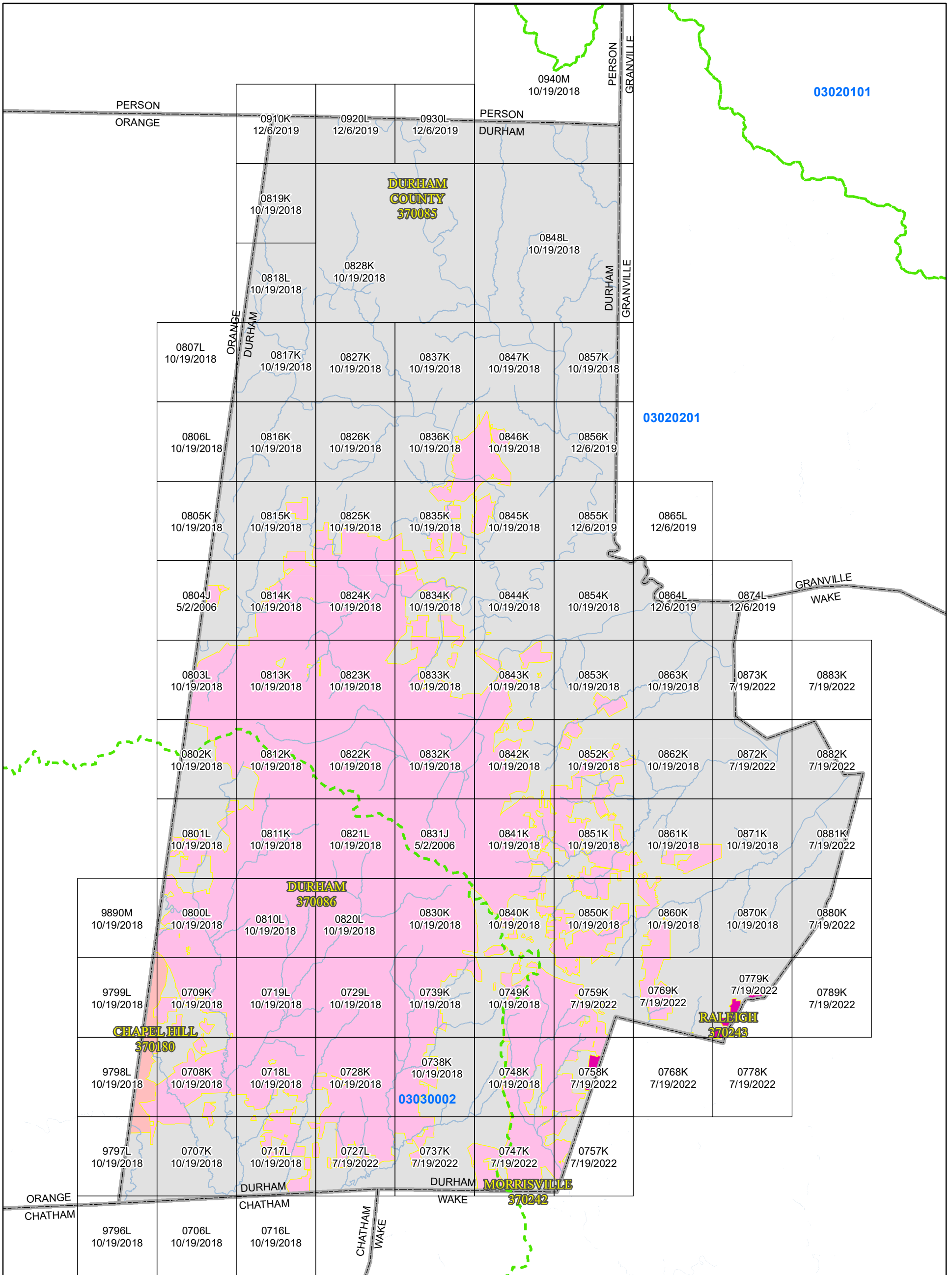
The CRS is a voluntary incentive program that recognizes and encourages community floodplain management activities that exceed the minimum NFIP requirements. Visit the FEMA Web site at <http://www.fema.gov> or contact your appropriate FEMA Regional Office for more information about this program.

Previous FIS Reports and FIRMs may have included levees that were accredited as reducing the risk associated with the 1% annual chance flood based on the information available and the mapping standards of the NFIP at that time. For FEMA to continue to accredit the identified levees, the levees must meet the criteria of the Code of Federal Regulations, Title 44, Section 65.10 (44 CFR 65.10), titled "Mapping of Areas Protected by Levee Systems."

Since the status of levees is subject to change at any time, the user should contact the appropriate agency for the latest information regarding levees presented in Table 9 of this FIS Report. For levees owned or operated by the U.S. Army Corps of Engineers (USACE), information may be obtained from the USACE national levee database. For all other levees, the user is encouraged to contact the appropriate local community.

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 <http://www.fema.gov>.

Figure 1 - FIRM Index



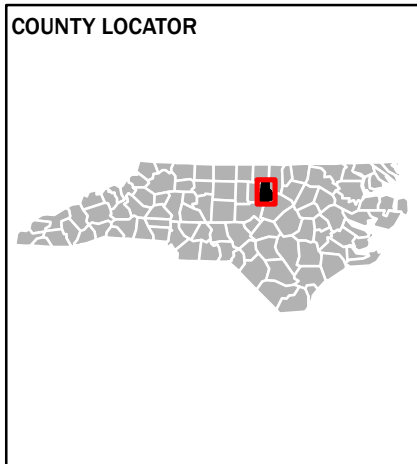
Map Projection:
 North Carolina State Plane Projection Feet (Zone 3200)
 Datum: NAD 1983 (Horizontal), NAVD 1988 (Vertical)

The corporate limits shown on this FIRM Index are based on the best information available at the time of publication. As such, they may be more current than those shown on FIRM panels previously issued under the North Carolina Seamless paneling scheme

THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT

[HTTPS://FRIS.NC.GOV/FRIS](https://FRIS.NC.GOV/FRIS)
[HTTPS://MSC.FEMA.GOV](https://MSC.FEMA.GOV)

SEE FLOOD INSURANCE STUDY FOR ADDITIONAL INFORMATION
 *PANEL NOT PRINTED



NATIONAL FLOOD INSURANCE PROGRAM
 FLOOD INSURANCE RATE MAP INDEX

DURHAM COUNTY, NORTH CAROLINA And Incorporated Areas
PANELS PRINTED:
 0706, 0707, 0708, 0709, 0716, 0717, 0718, 0719, 0727, 0728, 0729, 0737, 0738, 0739, 0747, 0748, 0749, 0757, 0758, 0759, 0768, 0769, 0778, 0779, 0789, 0800, 0801, 0802, 0803, 0804, 0805, 0806, 0807, 0810, 0811, 0812, 0813, 0814, 0815, 0816, 0817, 0818, 0819, 0820, 0821, 0822, 0823, 0824, 0825, 0826, 0827, 0828, 0830, 0831, 0832, 0833, 0834, 0835, 0836, 0837, 0840, 0841, 0842, 0843, 0844, 0845, 0846, 0847, 0848, 0850, 0851, 0852, 0853, 0854, 0855, 0856, 0857, 0860, 0861, 0862, 0863, 0864, 0865, 0870, 0871, 0872, 0873, 0874, 0880, 0881, 0882, 0883, 0910, 0920, 0930, 0940, 9796, 9797, 9798, 9799, 9890

FEMA
 MAP NUMBER 37063CIND0J
 MAP REVISED July 19, 2022

2.0 Floodplain Management Applications

Flood events of a magnitude expected to occur with a 10%, 2%, 1%, or 0.2% annual chance have been selected as having special significance for developing sound floodplain management programs. These events, commonly termed the 10-, 50-, 100-, and 500-year floods, have a 10%, 2%, 1%, and 0.2% chance, respectively, of being equaled in any given year. Therefore, FIS Reports typically determine water-surface elevations for floods with these probabilities. The FIRM delineates 1% and 0.2% annual chance floodplains and 1% annual chance floodway boundaries, and depicts 1% annual chance flood elevations, rounded to the nearest foot, to assist in developing floodplain management measures.

2.1 Floodplains

To provide a national standard without regional discrimination, the 1% annual chance flood has been adopted by FEMA as the base flood for floodplain management purposes. A 1% annual chance flood, or base flood, is defined as that having a 1% chance of being equaled or exceeded in any given year. The 1% annual chance floodplains shown on the FIRM identify areas that are expected to be inundated by the 1% annual chance flood. This 1% annual chance floodplain is also called a Special Flood Hazard Area (SFHA), where the NFIP's floodplain management regulations must be enforced by the community as a condition of participation in the NFIP. The 0.2% annual chance floodplain is employed to indicate additional areas of flood risk associated with exceptionally severe floods.

2.2 Floodways

Encroachment on floodplains such as that caused by placement of 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, floodways are provided as a tool to assist local communities in this aspect of floodplain management. Under this concept, the 1% annual chance riverine floodplain is divided into a floodway and a floodway fringe. 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. Figure 2, "Floodway Schematic," illustrates this principle. Minimum Federal standards limit such increases to 1.0 foot, provided that hazardous velocities are not produced. The floodways in this FIS are presented to local agencies as a minimum standard that can be adopted directly or that can be used as a basis for additional encroachment studies.

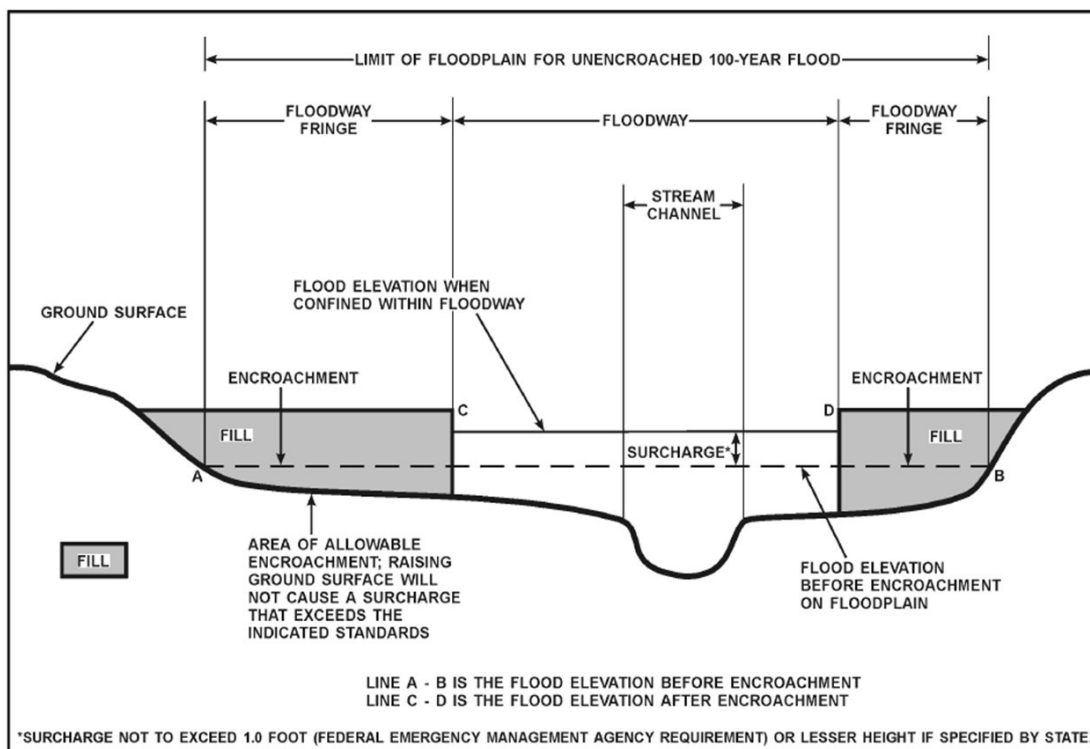


Figure 2 - Floodway Schematic

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 Watershed Characteristics

Because a FIS is a probability analysis that may not account for some of the factors listed below, communities are strongly encouraged to consider adopting more restrictive or higher floodplain management criteria or ordinances than the minimum Federal requirements. Communities may also increase the validity of their flood hazard data by investing in continuous maintenance of river gages (see the Data Validity and Reliability paragraph below). If the North Carolina Emergency Management, National Oceanic and Atmospheric Administration (NOAA), U.S. Geological Survey (USGS) or other agencies do not maintain gauges on the flooding sources of interest, partnerships may be pursued with federal, state and local agencies to encourage these agencies to install gauges. For more information, see Section 9.0 of this report.

This flood hazard study represents an analysis of certain watershed characteristics, some of which are summarized as follows:

Drainage Area

In general, streams that drain larger areas have greater flood hazards. FISs, in North Carolina, do not typically analyze flood hazards in places with rural drainage areas of less than one square mile and within urban drainage areas of less than ½ square mile.

Soil Permeability and Infiltration

Differences in the types of soil and the amount of vegetation in a watershed have a significant effect on the amount of water that the soil can absorb; soils with a high sand content absorb much more water than soils with a high clay content. The presence of vegetation increases infiltration; the presence of pavement decreases infiltration and also speeds runoff to receiving waters. As soil permeability and infiltration decrease, the volume and rate of overland flow increases.

Soil Moisture Conditions

In addition to soil permeability and infiltration, the level of the water table helps determine the saturation point, beyond which no water is absorbed. As rainfall duration increases, the height of the water table increases.

Channel and Floodplain Geometry

The geometric contour of a streambed, termed channel geometry, and the geometric contour of a floodplain determine the volume of water that a channel can hold and partially determine the rate at which water flows through it.

Channel and Floodplain Roughness

The roughness of a surface affects the characteristics of runoff whether the water is on the surface of the watershed or in the channel.

FIS Reports include analyses of how these factors will combine to produce overland flow patterns during floods that have a certain probability of occurring in any given year. Although the recurrence interval represents the long-term average period between floods of a specific magnitude, rare floods could occur at shorter intervals or even within the same year. The risk of experiencing a rare flood increases when longer periods are considered. For example, the risk of having a flood which equals or exceeds the 1% annual chance flood (1% chance of annual exceedance) in any 50-year period is approximately 40% (4 in 10), but for any 90-year period, the risk increases to approximately 60% (6 in 10).

It is important to note that the 1% annual chance flood is used as the national standard to allow a consistent approach to floodplain management, flood hazard assessment, and flood hazard mapping. In any given community, a number of factors may result in flooding characteristics that do not conform to predicted conditions. Therefore, the determination that an area is not shown on the FIRM as being within a Special Flood Hazard Area is no guarantee that it will not flood during a 1% annual chance flood. Examples of these factors include Data Validity and Reliability; Developmental and Topographic Changes Over Time; Erosion, Deposition, and Debris Flow; and Meandering and Lateral Migration.

Data Validity and Reliability

Certain types of analysis methods yield more justifiable characterizations of flood hazards. For example, a gage analysis, to determine peak discharges, is based on actual measurements of watershed conditions over time and, therefore, is typically considered the most accurate method of hydrologic analysis. However, it is not feasible to install enough gages to gather data on every stream. In addition, for many of the gage sites that do exist, there are interruptions in the period of record. The usefulness of gage data for the purpose of predicting flooding behavior decreases with interruptions in the period of record; predicted flooding conditions over a 100-year period based on 20 years of measurements spread over a 35-year period are less valid than those based on 30 years of continuous measurements. A regression analysis is typically considered the best method in the absence of gage data, as it uses gage data from watersheds with similar characteristics to estimate flood frequency and magnitude in an ungaged watershed. Regression equations reflect average conditions for a region; therefore, the results will not exactly match the results of a gage analysis at a particular location. The standard errors of the North Carolina rural regression equations range from 44 to 51 percent for estimates of the 1% annual chance flood. That means the difference between the results of the regression equation and the gage analysis for approximately two-thirds of the locations that gage data exists are within 44 to 51 percent of the gage analysis results. A rainfall-runoff hydrologic analysis may be used for gaged or ungaged watersheds, and can estimate the effects of storage areas and flood control structures and measures. This method is most valid when calibrated against historical data.

Developmental and Topographic Changes Over Time

A FIRM is based on the best topographic and planimetric information available to FEMA and the State of North Carolina at the time the study is produced. In time, however, development and/or natural phenomena can alter the physical characteristics of a watershed and its drainage channels, resulting in changes in the flood hazards in those areas. For example, constructing a housing subdivision reduces the amount of soil that is available to absorb water; this in turn causes an increase in the volume of surface water that flows into the channel.

Erosion, Deposition, and Debris Flow

The flood hazards shown on a FIRM are based on the assumption of unobstructed flow. The FIRM does not reflect an analysis of areas that are subject to erosion caused by the increased water-surface elevations and velocities that occur during flooding. In addition to the risks of landslides or a weakening of the ground underneath roads or structures, any sediment that is removed from one location will be deposited in another; accumulated deposits may have a pronounced effect on flood hazards in those areas. Similarly, debris such as fallen trees or branches, litter, or other items may obstruct stream channels or hydraulic structures, increasing water-surface elevations, velocities, and floodplain width.

Meandering and Lateral Migration

FISs are based on the assumption that channel geometry will remain stable during normal drainage and during flood events. This assumption is valid for most streams, which flow over bedrock or between bedrock outcroppings that form non-alluvial channels. However, alluvial streams change the channel geometry with time, significantly so during flood events. Alluvial streams are subject to erosion and deposition, which may result in braided or meandering channels. Streams of this type may be characterized by lateral migration, or channel shifting, in which the stream may change course entirely during a flood. Whenever clear evidence is available, a FIRM will identify the alluvial nature of a studied flooding source and designate wider floodways to allow for potential migration. However, these floodways are based on qualitative assessments and not on quantitative geomorphic and engineering analyses.

2.5 Coastal Flood Hazard Areas

This section is not applicable to this FIS project.

Figure 3, "Wave Runup Transect Schematic" is not applicable in Durham County.

Figure 4, "Coastal Transect Schematic" is not applicable in Durham County.

3.0 Insurance Applications

3.1 National Flood Insurance Program Insurance Zones

For flood insurance applications, the FIRM designates flood insurance rate zones and, in 1% annual chance floodplains that were studied by detailed methods, shows selected whole-foot BFEs or average depths. Insurance agents use the zones and BFEs in conjunction with information on structures and their contents to assign premium rates for flood insurance policies. Table 2, "Flood Zone Designations," includes a description of each type of flood hazard zone.

Table 2 - Flood Designations

Zone	Description
A	Zone A is the flood insurance rate zone that corresponds to the 1% annual chance floodplains that are determined in the FIS Report by approximate methods. Because detailed hydraulic analyses are not performed for such areas, no Base Flood Elevations or depths are shown within this zone.
AE	Zone AE is the flood insurance rate zone that corresponds to the 1% annual chance floodplains that are determined in the FIS Report by detailed methods. In most instances, whole-foot Base Flood Elevations derived from the detailed hydraulic analyses are shown at selected intervals within this zone.
AH	Zone AH is 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 Base Flood Elevations derived from the detailed hydraulic analyses are shown at selected intervals within this zone.
AO	Zone AO is 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 detailed hydraulic analyses are shown within this zone.
AR	Zone AR is 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.
A99	Zone A99 is 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 depths are shown within this zone.
V	Zone V is the flood insurance rate zone that corresponds to the 1% annual chance coastal floodplains that have additional hazards associated with storm waves. Because approximate hydraulic analyses are performed for such areas, no Base Flood Elevations are shown within this 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. Whole-foot Base Flood Elevations derived from the detailed hydraulic analyses are shown at selected intervals within this zone.
X	Zone X is the flood insurance rate zone that corresponds to areas outside the 0.2% annual chance floodplain, areas within the 0.2% annual chance floodplain, and to areas of 1% annual chance flooding where average depths are less than 1 foot, areas of 1% annual chance flooding where the contributing drainage area is less than 1 square mile, and areas protected from the 1% annual chance flood by levees. No Base Flood Elevations or depths are shown within this zone.
X (Future)	Zone X (Future Base Flood) is the flood insurance risk zone that corresponds to the 1-percent-annual-chance floodplains that are determined based on future-conditions hydrology. No BFEs or base flood depths are shown within this zone.
D	Zone D is the flood insurance rate zone that corresponds to unstudied areas where flood hazards are undetermined, but possible.

4.0 Area Studied

Durham County is found in the Piedmont region of North Carolina. It is surrounded by Person County to the north, Wake and Granville Counties to the east, Chatham County to the south, Orange County to the west.

4.1 Basin Description

Table 3, "Basin Description" 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 area.

Table 3 - Basin Description

HUC-8 Sub-Basin Name	HUC-8 Sub-Basin Number	Primary Flooding Source	Description	HUC Area (square miles)
Haw	03030002	Haw River	The Haw River Basin begins in eastern Forsyth County, flowing across low, rolling hills. The basin drains large portions of Guilford, Alamance, Durham, and Chatham counties before entering B. Everett Jordan Lake at the headwaters of the Cape Fear River.	1,707
Upper Neuse	03020201	Neuse River	The Upper Neuse Basin is initially drained by the Eno and Flat Rivers in Orange County. Once they confluence near Falls Lake, the basin is then drained by the Neuse River which flows through Durham, Wake, and Johnston Counties.	2,406

4.2 Principal Flood Problems

Table 4, "Principal Flood Problems" contains a list of principal flooding problems in Durham County.

Table 4 - Principal Flood Problems

Flooding Source	Problem
All Sources	Past flooding on the streams within Durham County indicates that flooding may occur during any season of the year; however, most floods occur during the late summer and early fall as a result of heavy rainfall. Floods are often associated with tropical storms moving north along the Atlantic coastline. Durham County is more prone to flooding by small streams than flooding by a major river. The principle flood problems occur on the smaller tributaries, where, due to urban development pressures, there has been commercial and residential construction in the floodplains of these tributaries. Unless the intensified pressure for floodplain development caused by urbanization is adequately controlled, there will be further development in these floodplain areas resulting in increased flood damages. The two U.S. Army Corps of Engineers structures (the B. Everett Jordan and the Falls of the Neuse Reservoirs) will inundate parts of Durham County; however, these areas will be within the land area purchased and controlled by the USACE. Therefore, there will theoretically be no flood damage to privately owned land by this induced flooding. Also, there are USACE easement areas located on portions of Ellerbee Creek, New Hope Creek, Third Fork Creek, and Third Fork Creek Tributary A.

4.3 Historic Flood Elevations

Hurricane Floyd (9/16/1999)

Hurricane Floyd made landfall near Wilmington with category two winds of 105 to 110 mph. Rainfall totals from Floyd were as high as 15 to 20 inches over portions of eastern North Carolina; with a record of 23.45 inches of rain falling in the month of September at Wilmington, NC. This breaks the previous record of 21.12 inches set in July 1886. These rains combined with saturated ground from previous rain events, including Hurricane Dennis, to produce an inland flood disaster. There were 74 deaths in the United States, including 52 in North Carolina, due to drowning from flood waters. This makes Floyd the deadliest U.S. hurricane since Agnes in 1972. Data from the USGS indicate that eleven of their stream gage monitoring sites in North Carolina (Ahoskie, Rocky Mount, Hilliardston, White Oak, Enfield, Tarboro, Lucama, Hookerton, Trenton, Chinquapin, and Freeland) exceeded 0.2% annual chance flood levels due to Floyd. Total losses in North Carolina approach \$5 billion with an estimated \$3.5 billion in damages to North Carolina homes, businesses, roads, and infrastructure. Floyd passed relatively close to the entire U.S. east coast, justifying hurricane warnings from Florida to Massachusetts and requiring an estimated two million people to evacuate. The last hurricane to require warnings for as large a stretch of coastline was Hurricane Donna in 1960.

Hurricane Bonnie (8/26/1998)

The landfall location of Bonnie was in southern North Carolina near Cape Fear very close to landfall of both Hurricanes Bertha and Fran in 1996. Even though a powerful storm, damage from Bonnie was much less than Fran, which was also Category 3. Winds gusted up to 100 knots and storm tides of 5 to 8 feet above normal were reported mainly in eastern beaches of Brunswick County, while a storm surge of 6 feet was reported at Pasquotank and Camden Counties in the Albemarle Sound.

Hurricane Fran

(9/5/1996)

The landfall location of Fran near the city of Wilmington and its progression into the Raleigh-Durham area caused an estimated \$1.275 billion in damage in North Carolina alone. Fran hit with gusts up to 105 mph and a storm surge of approximately 16 feet. Over \$1 billion in damage was reported in North Topsail Beach and Surf City and 23 people were killed.

Hurricane Bertha

(7/12/1996)

1996 was a damaging year in the hurricane history of North Carolina. Tropical Storm Arthur, Hurricane Bertha, and Hurricane Fran all made direct landfall on the North Carolina coastline. It was the most active tropical cyclone season in the state since 1955, when Hurricanes Connie, Diane, and Ione all hit the coast. Bertha entered North Carolina in North Topsail Beach with 105 mph gust and a storm surge of approximately 5 feet.

Hurricane Gloria

(9/26/1985)

The landfall location of Gloria was Cape Hatteras, with 90 knot winds and a storm surge of approximately 6-8 feet.

Hurricane Diana

(9/13/1984)

The landfall location of Diana was 38 miles south of Wilmington with 90 mph winds at its closest approach to Wilmington. Diana had 115 mph sustained winds before landfall. Storm surge was approximately 5-6 feet.

Table 5, "Historic Flood Elevations", lists selected flooding sources in Durham County with records of past stages. The table shows the historic peak, a location description, approximate stream station, the date of the historic peak, and approximate recurrence interval of the flood elevation. The approximate recurrence interval for a flood is often estimated based on an analysis of rainfall amounts from a storm and /or stream gage data.

Table 5 - Historic Flood Elevations

Flooding Source/Tropical Storm	Location Description	Approx. Stream Station	Historic Peak (Feet NAVD 88)	Date	Approximate Recurrence Interval (in years)
Flat River / Unknown Storm	Approximately 950 feet downstream of Lake Michie Dam	29500	279.3	9/3/1996	100
Flat River / Unknown Storm	At Lake Michie	32000	347.6	9/3/1996	100
Flat River / Unknown Storm	Approximately 2.2 miles downstream of State Forest Road	54750	363.3	9/3/1996	100
Neuse River / Hurricane Floyd	Upstream face of Weyerhaeuser Road	57075	10.6	9/1/1999	100
Neuse River / Hurricane Floyd	Downstream face of West Craven Middle School Road	65300	11.7	9/1/1999	100
Neuse River / Hurricane Floyd	400 feet southwest of intersection of River Road and Cowpens Landing Road	76975	14.6	9/1/1999	100
Neuse River / Hurricane Floyd	Approximately 1.0 mile upstream of intersection of River Road and State Camp Road	94750	17.7	9/1/1999	100
Neuse River / Hurricane Floyd	Backwater up Core Creek (approximately 2.9 miles downstream of NC 55)	127000	18.7	9/1/1999	100
Neuse River / Hurricane Floyd	Backwater up Village Creek (downstream face of Biddle Road)	135000	22.2	9/1/1999	100
Neuse River / Hurricane Floyd	Approximately 0.25 mile downstream of confluence of Contentnea Creek	149375	23.8	9/1/1999	100
Neuse River / Hurricane Floyd	Approximately 0.70 mile southeast of intersection of Saw Mill and Tick Bite Road	180773	27.1	9/1/1999	500
Neuse River / Hurricane Floyd	Approximately 400 feet southwest of intersection of East New Bern Road and Trenton Highway	253195	35.8	9/1/1999	100
Neuse River / Hurricane Floyd	Downstream face of State Highway 11	265071	37.4	9/1/1999	100
Neuse River / Hurricane Floyd	Upstream face of U.S. Highway 70/Queen St.	258355	37.6	9/1/1999	100
Neuse River / Hurricane Floyd	Upstream face of New Bern Road	278765	39.3	9/1/1999	100
Neuse River / Hurricane Floyd	State Highway 11	286920	39.4	9/1/1999	100
Neuse River / Hurricane Floyd	Upstream face of Hardy Bridge Road	360288	50.2	9/1/1999	100
Neuse River / Hurricane Floyd	Downstream face of Main Street	591830	54.9	9/1/1999	50
Neuse River / Hurricane Floyd	Downstream face of NC 111	636585	61.7	9/1/1999	50
Neuse River / Hurricane Floyd	Upstream face of SR 1915	694195	71.1	9/1/1999	50
Neuse River / Hurricane Floyd	160 feet Southeast of Bryan Boulevard	710650	72.8	9/1/1999	50

4.4 Flood Protection Measures

Flood protection measures may be structural (such as levees, dams, and reservoirs) or non-structural (such as land-use management ordinances, policies, or practices).

Table 6, “Non-Levee Flood Protection Measures”, lists the flood protection measures undertaken to mitigate flood damage in Durham County.

Table 6 - Non-Levee Flood Protection Measures

Flooding Source	Structure Name	Type of Measure	Location	Description of Measure
Ellerbe Creek	N/A	CHANNEL	Ellerbe Creek – 11 miles of the streambed starting at the confluence were dredged and the banks were cleared. The project has lessened the effects of lesser events but has little impact on the 1% annual chance flood.	Channel Improvement

N/A - Not Applicable

Table 7, “Levees” is not applicable in Durham County.

4.5 Scope of Study

For this map maintenance revision, a scoping meeting was held in Durham County to present the results of initial research to the county and communities within the county and to discuss their floodplain mapping needs. The county and communities were asked to provide input on proposed study priorities and analysis methods. These meetings resulted in the identification of flooding sources having a floodplain mapping need. Map Maintenance Plans were developed based on the results of the scoping meetings and were both mailed to each jurisdiction within Durham County and posted to the State’s website at www.ncfloodmaps.com.

Draft basin plans were developed based on the results of the initial scoping meetings. Final scoping meetings were held by the State and FEMA to provide counties and communities an overview of the draft basin plans, including the proposed scope and schedule for the project, and to provide an opportunity for additional county and community input. After the final scoping meeting was held, the Final Basin Plans were produced.

This FIS covers the geographic area of Durham County, North Carolina, and all jurisdictions therein. The areas studied by detailed methods were selected with priority given to all known flood hazard areas and areas of projected development and proposed construction. Limits of detailed study are indicated on the Flood Profiles and/or Water-surface elevation rasters and/or the FIRM.

Table 8, “Flooding Sources Studied by Detailed Methods”, lists all flooding sources within the county that were studied by detailed methods for this FIS and previous FISs.

Table 8 – Flooding Sources Studied by Detailed Methods

Source	Riverine Sources		Affected Communities
	From	To	
Basin 18, Stream 13	At the confluence with Stirrup Iron Creek (Basin 18, Stream 12)	The Wake/Durham County boundary	Town Of Morrisville
Burdens Creek	The confluence with Northeast Creek	Approximately 640 feet upstream of East Cornwallis Road	City Of Durham Durham County
Burdens Creek Tributary	The confluence with Burdens Creek	Just downstream of I-40	Durham County
Burdens Creek Tributary 4	The confluence with Burdens Creek	Approximately 750 feet upstream of East Cornwallis Road	City Of Durham Durham County
Cabin Branch	Approximately 0.27 miles upstream of the confluence with Little River	Approximately 342 feet upstream of East of Bornie Dr structure	City Of Durham Durham County
Chunky Pipe Creek	The confluence with Little Lick Creek	Approximately 2.3 miles upstream of confluence with Little Lick Creek	City Of Durham Durham County
Chunky Pipe Creek Tributary 1	The confluence with Chunky Pipe Creek	Approximately 0.7 mile upstream of confluence with Chunky Pipe Creek	City Of Durham Durham County
Crooked Creek	The confluence with Eno River	Approximately 0.5 mile upstream of Terry Road	City Of Durham Durham County
Crooked Creek Tributary 1	The confluence with Crooked Creek	Approximately 1.3 miles upstream of Winkler Road	Durham County

Table 8 – Flooding Sources Studied by Detailed Methods

Source	Riverine Sources		Affected Communities
	From	To	
Ellerbe Creek	Approximately 2300 feet downstream of Glenn Road	At Shoccoree Drive	City Of Durham Durham County
Ellerbe Creek Tributary A	The confluence with Ellerbe Creek	Approximately 850 feet upstream of Glenbrook Drive	City Of Durham
Ellerbe Creek Tributary B	The confluence with Ellerbe Creek	Just upstream of Dearborn Drive	City Of Durham
Eno River	Just upstream of Old Oxford Road	Approximately 2.2 miles upstream of Cole Mill Road	City Of Durham Durham County
Eno River Tributary 1	The confluence with Eno River	Approximately 0.3 mile upstream of Danube Lane	City Of Durham Durham County
Eno River Tributary 3	The confluence with Eno River	Approximately 840 feet upstream of dam near Russell Road	Durham County
Eno River Tributary A	At the confluence with Eno River	Approximately 1140 feet upstream of Infinity Road	City Of Durham
Eno River Tributary Z	The confluence with Eno River	Approximately 600 feet upstream of I-85	City Of Durham Durham County
Goose Creek	The confluence with Ellerbe Creek	Approximately 800 feet upstream of Liberty Street	City Of Durham
Goose Creek Tributary A	The confluence with Goose Creek	Approximately 200 feet upstream of Liberty Street	City Of Durham
Goose Creek Tributary A Divergence	The confluence with Goose Creek	Approximately 600 feet upstream of U.S. Route 70	City Of Durham
Gum Creek	The confluence with New Hope Creek	Approximately 280' upstream of the confluence with Tributary to Gum Creek	City Of Durham Durham County
Kit Creek Tributary 1 (Basin 29, Stream 11)	The confluence with Kit Creek (Basin 29, Stream 7)	Approximately 1,825 feet upstream of Davis Drive	City Of Durham Durham County
Knap of Reeds Creek	The confluence with Neuse River	The toe of R.D. Holt Reservoir Dam	Durham County
Lick Creek	Approximately 0.7 miles downstream of Kemp Road	Approximately 2.2 miles upstream of Olive Branch Road	City Of Durham Durham County
Lick Creek Tributary 1	The confluence with Lick Creek	Approximately 0.35 miles upstream of Kinard Road	City Of Durham Durham County
Little Brier Creek East (Basin 18, Stream 16)	At Glenwood Avenue	Approximately 1,300 feet upstream of the confluence with Little Brier Creek (Basin 18, Stream 15)	City Of Raleigh
Little Creek	Approximately 800 feet downstream of Pinehurst Drive	The confluence of Bolin Creek and Booker Creek	Town Of Chapel Hill
Little Lick Creek	Approximately 250 feet downstream of Stallings Road	Approximately 0.4 miles upstream of Gibson Road	City Of Durham Durham County
Little Lick Creek Tributary 1A	The confluence with Little Lick Creek	Approximately 250 feet upstream of Chandler Road	City Of Durham Durham County
Little Lick Creek Tributary 1B	The confluence with Little Lick Creek	Approximately 250 feet upstream of Delmar Drive	City Of Durham Durham County
Little Lick Creek Tributary 1D	The confluence with Little Lick Creek Tributary 1B	Just upstream of Chandler Road	City Of Durham Durham County
Little Lick Creek Tributary 2	The confluence with Little Lick Creek	Approximately 1700 feet upstream of Lynn Road	City Of Durham Durham County
Little River	Approximately 0.64 miles downstream of Johnson Mill Road	At the confluence with Little River South Fork and Little River North Fork	Durham County
Little River	Approximately 879 feet downstream of Vintage Hill Pkwy	Approximately 1254 feet upstream of Treyburn Golf Course Crossing	City Of Durham Durham County
Little River North Fork	At the confluence with Little River	Approximately 1.33 miles upstream of S Lowell Road	Durham County
Little River North Fork Tributary 1	At the confluence with Little River North Fork	Approximately 1.01 mile upstream of South Lowell Road	Durham County
Little River South Fork	At the confluence with Little River	At the Durham County boundary	Durham County
Little River Tributary 1	At the confluence of Little River	Approximately 0.84 miles upstream of Highway 157	Durham County
Mud Creek	The confluence with New Hope Creek	Just upstream of American Drive	City Of Durham Durham County
New Hope Creek	Approximately 0.33 miles downstream of Old Chapel Hill Road	Approximately 2.4 miles upstream of the confluence of New Hope Creek Tributary 1	City Of Durham Durham County Town Of Chapel Hill
New Hope Creek Tributary 1	The confluence with New Hope Creek	Approximately 0.5 mile upstream of Mount Moriah Road	City Of Durham Durham County Town Of Chapel Hill
Northeast Creek	Approximately 1,050 feet upstream of county boundary	Approximately 130 feet upstream of So-Hi Drive	City Of Durham Durham County
Northeast Creek North Prong	The confluence with Northeast Creek	Approximately 1,050 feet upstream of NC Highway 55	City Of Durham
Northeast Creek North Prong Tributary	The confluence with Northeast North Prong	Just upstream of Carpenter Fletcher Road	City Of Durham
Northeast Creek North Prong Tributary A	The confluence with Northeast North Prong	Just upstream of Akron Avenue	City Of Durham
Northeast Creek Tributary 1	The confluence with Northeast Creek	Approximately 200' upstream of New Haven Drive	City Of Durham Durham County

Table 8 – Flooding Sources Studied by Detailed Methods

Source	Riverine Sources		Affected Communities
	From	To	
Northeast Creek Tributary C	The confluence with Northeast Creek	Just upstream of McCormick Road	City Of Durham Durham County
Northeast Creek Tributary D	The confluence with Northeast Creek	Just upstream of Grandale Drive	City Of Durham Durham County
Panther Creek	Approximately 1.94 miles downstream of Burton Road	At Carpenter Road	City Of Durham Durham County
Rocky Creek	The confluence with Third Fork Creek	Approximately 170 feet upstream of Briggs Road	City Of Durham
Sandy Creek	The confluence with New Hope Creek	Approximately 350' upstream of Morrene Road	City Of Durham
Sandy Creek Tributary A	The confluence with New Hope Creek	Just upstream of Martin Luther King Jr. Pkwy	City Of Durham
Sandy Creek Tributary D	The confluence with Sandy Creek	Approximately 300' upstream of Anderson Street	City Of Durham
Sevenmile Creek	The confluence with Eno River	Approximately 0.4 mile upstream of Bivins Road	City Of Durham Durham County
South Ellerbe Creek	The confluence with Ellerbe Creek	Approximately 150 feet upstream of Club Boulevard	City Of Durham
South Ellerbe Creek Tributary	The confluence with South Ellerbe Creek	Approximately 1700 feet upstream of Markham Avenue	City Of Durham
Southwest Creek	The Durham/Chatham County boundary	Approximately 750 feet upstream of Ebon Road	City Of Durham Durham County
Stirrup Iron Creek	Just below Chin Page Road	Just downstream of Miami Blvd	City Of Durham Durham County
Stirrup Iron Creek	Just upstream of Highway I-40	The Wake/Durham County boundary	City Of Durham Durham County Town Of Morrisville
Stirrup Iron Creek Tributary A	The confluence with New Hope Creek	Just upstream of Martin Luther King Jr Pkwy	City Of Durham
Stirrup Iron Creek Tributary B	The confluence with Stirrup Iron Creek	Approximately 600' upstream of General Electric Drive	City Of Durham Durham County
Stirrup Iron Creek Tributary C	Approximately 1100' downstream of Chin Page Road	Approximately 1200' upstream of T W Alexander Drive	City Of Durham Durham County
Sycamore Creek (Basin 18, Stream 6)	At the confluence with Crabtree Creek (Basin 18, Stream 9)	Approximately 1.0 mile upstream of Leesville Road	City Of Raleigh
Third Fork Creek	Approximately 800 feet downstream of Highway 751	Approximately 880 feet upstream of East Forest Hills Plaza	City Of Durham
Third Fork Creek Tributary	The confluence with Third Fork Creek Tributary C	Approximately 260 feet upstream of Sherbon Drive	City Of Durham
Third Fork Creek Tributary A	The confluence with Third Fork Creek	Approximately 250 feet upstream of Southpoint Crossing Drive	City Of Durham
Third Fork Creek Tributary C	The confluence with Third Fork Creek	Approximately 240 feet upstream of Princeton Avenue	City Of Durham
Third Fork Creek Tributary D	The confluence with Third Fork Creek	Approximately 220 feet upstream of Morningside Drive	City Of Durham
Third Fork Creek Tributary E	The confluence with Third Fork Creek	Approximately 240 feet upstream of Ward Street	City Of Durham
Tributary 1 to Little Lick Creek Tributary 1B	The confluence with Little Creek Tributary 1B	Approximately 800 feet upstream of Nichols Farm Drive	City Of Durham
Tributary to Stirrup Iron Creek Tributary A	The confluence with Stirrup Iron Creek Tributary A	Upstream of Lumley Road	City Of Durham
Unnamed Stream	The confluence with Gum Creek	Just downstream of I-40	City Of Durham Durham County
Unnamed Tributary No. 1 to Stirrup Iron Creek Tributary C	The confluence with Stirrup Iron Creek Trib C	Approximately 1000' upstream of confluence with Stirrup Iron Creek Trib C	City Of Durham Durham County
Unnamed Tributary No. 2 to Stirrup Iron Creek Tributary C	The confluence with Stirrup Iron Creek Trib C	Approximately 1400' upstream of T W Alexander Drive	City Of Durham
Warren Creek	The confluence with Eno River	Approximately 120 feet upstream of West Carver Street	City Of Durham
Warren Creek Tributary 1	The confluence with Warren Creek	Approximately 1,050 feet upstream of confluence with Warren Creek	City Of Durham
Warren Creek Tributary A	The confluence with Warren Creek	Approximately 525 feet upstream of Hillandale Road	City Of Durham Durham County
Warren Creek Tributary B	The confluence with Warren Creek	Approximately 1,050 feet upstream of Hillandale Road	City Of Durham

Table 9, "Flooding Sources Studied by Detailed Methods: Redelineated" is not applicable in this County

Table 10, "Flooding Sources Studied by Detailed Methods: Limited Detailed", lists all flooding sources within the county that were studied by limited detailed methods for either this FIS or previous FISs.

Table 10 - Flooding Sources Studied by Limited Detailed Methods

Source	Riverine Sources		Affected Communities
	From	To	
B. Everett Jordan Lake	Entire shoreline within Chatham County (Unincorporated Areas)	Entire shoreline within Chatham County (Unincorporated Areas)	Durham County
Basin 18, Stream 13	Sorrell Grove Church Road	Approximately 0.2 mile upstream of Durham/Wake County boundary	City Of Durham Durham County Town Of Morrisville
Buffalo Creek (into Little River North Fork)	The confluence with North Fork Little River	Approximately 0.4 mile upstream of Bill Poole Road	Durham County
Buffalo Creek (into Little River)	The confluence with Little River	Approximately 870 feet upstream of Stagville Road	Durham County
Buffalo Creek Tributary 1	The confluence with Buffalo Creek (into North Fork Little River)	Approximately 1,790 feet upstream of confluence with Buffalo Creek (into North Fork Little River)	Durham County
Buffalo Creek Tributary 2	The confluence with Buffalo Creek (into North Fork Little River)	Approximately 1,250 feet upstream of the Durham/Orange County boundary	Durham County
Burdens Creek	The confluence with Northeast Creek	Approximately 640 feet upstream of East Cornwallis Road	Durham County
Cabin Branch Tributary	The confluence with Cabin Branch	Approximately 0.7 mile upstream of confluence with Cabin Branch	City Of Durham Durham County
Camp Creek	The confluence with Knap of Reeds Creek	Approximately 0.6 mile upstream of Red Mountain Road	Durham County
Camp Creek Tributary 3	The confluence with Camp Creek	Approximately 0.3 mile upstream of Isham Chambers Road	Durham County
Camp Creek Tributary 4	The confluence with Camp Creek	The Durham/Person County boundary	Durham County
Chunky Pipe Creek Tributary 1	Approximately 450 feet upstream of Pebblestone Drive	Approximately 1.1 miles upstream of confluence of Chunky Pipe Creek Tributary 2	City Of Durham Durham County
Chunky Pipe Creek Tributary 2	The confluence with Chunky Pipe Creek Tributary 1	Approximately 0.3 mile upstream of Patterson Road	City Of Durham Durham County
Crooked Creek (into Eno River) Tributary 2	The confluence with Crooked Creek	Approximately 375 feet upstream of Milton Road	City Of Durham Durham County
Crooked Creek (into Eno River) Tributary 2A	The confluence with Crooked Creek Tributary 2	Approximately 1,915 feet upstream of confluence with Crooked Creek Tributary 2	Durham County
Deep Creek	The confluence with Flat River	Approximately 1.0 mile upstream of Mollie Moonie Road	Durham County
Deep Creek	The confluence with Flat River	The Durham/Person County boundary	Durham County
Dial Creek	The confluence with Flat River	Approximately 0.5 mile upstream of Red Mountain Road	Durham County
Dial Creek	The confluence with Flat River	Approximately 400 feet upstream of the Person/Durham County Boundary	Durham County
Ellerbe Creek Tributary 1	The confluence with Ellerbe Creek	Approximately 0.9 mile upstream of Ellerbe Creek Tributary 3	Durham County
Ellerbe Creek Tributary 2	The confluence with Ellerbe Creek Tributary 1	Approximately 0.5 mile upstream of Confluence with Ellerbe Creek Tributary 1	Durham County
Ellerbe Creek Tributary 3	The confluence with Ellerbe Creek Tributary 1	Approximately 0.3 mile upstream of Confluence with Ellerbe Creek Tributary 1	Durham County
Ellerbe Creek Tributary 4	The confluence with Ellerbe Creek	Approximately 1.2 miles upstream of confluence with Ellerbe Creek	Durham County
Eno River	The confluence with Neuse River	Just upstream of Old Oxford Road	Durham County
Eno River Tributary	The confluence with Eno River	Approximately 0.7 mile upstream of confluence with Eno River Tributary 8	City Of Durham Durham County
Eno River Tributary 6	The confluence with Eno River Tributary	Approximately 0.7 mile upstream of confluence with Eno River Tributary	Durham County
Eno River Tributary 7	The confluence with Eno River Tributary	Approximately 1,375 feet upstream of confluence with Eno River Tributary	Durham County
Eno River Tributary 8	The confluence with Eno River Tributary	Approximately 700 feet upstream of railroad	Durham County
Eno River Tributary 9	The confluence with Eno River	Approximately 375 feet upstream of Umstead Road	City Of Durham Durham County
Flat River	The confluence with Eno River	At the Durham/Person County boundary	Durham County
Flat River Tributary 1	The confluence with Flat River	Approximately 1.8 miles upstream of confluence with Flat River	Durham County
Flat River Tributary 2	The confluence with Flat River	Approximately 1.0 mile upstream of Jock Road	Durham County
Flat River Tributary 3	The confluence with Flat River	Approximately 0.4 mile upstream of Hampton Road	Durham County
Flat River Tributary 4	The confluence with Flat River	Approximately 0.7 mile upstream of Quail Roost Road	Durham County
Flat River Tributary 8	The confluence with Flat River	Approximately 0.9 mile upstream of confluence with Flat River	Durham County
Flat River Tributary 8	The confluence with Flat River	Approximately 950 feet upstream of State Forest Road	Durham County
Knap of Reeds Creek Tributary	The confluence with Flat River	Approximately 500 feet upstream of Patrick Road	Durham County

Table 10 - Flooding Sources Studied by Limited Detailed Methods

Source	Riverine Sources		Affected Communities
	From	To	
Knap of Reeds Creek Tributary	The confluence with Knap of Reeds Creek	Approximately 1.8 miles upstream of Old Oxford Highway	Durham County
Knap of Reeds Creek Tributary 2	The confluence with Knap of Reeds Creek Tributary	The Granville/Durham County boundary	Durham County
Laurel Creek	Approximately 0.5 mile downstream of Boyce Mill Road	Approximately 2.1 miles upstream of Boyce Mill Road	Durham County
Lick Creek	Approximately 530 feet downstream of confluence of Lick Creek Tributary 2	Approximately 0.7 mile downstream of Kemp Road	Durham County
Lick Creek Tributary 2	The confluence with Lick Creek	Approximately 1.5 miles upstream of confluence with Lick Creek	Durham County
Little Brier Creek (Basin 18, Stream 15)	The Wake/Durham County boundary	Approximately 0.8 mile upstream of the Wake/Durham County boundary	City Of Durham City Of Raleigh Durham County
Little Brier Creek East (Basin 18, Stream 16)	Glenwood Avenue	Approximately 0.2 mile upstream of Leesville Road	City Of Raleigh Durham County
Little Brier Creek Tributary 1	The confluence with Little Brier Creek (Basin 18, Stream 15)	Approximately 0.6 mile upstream of confluence with Little Brier Creek (Basin 18, Stream 15)	City Of Durham
Little Brier Creek Tributary 2	The confluence with Little Brier Creek (Basin 18, Stream 15)	Approximately 1,514 feet upstream of confluence with Little Brier Creek (Basin 18, Stream 15)	Durham County
Little Creek	The confluence with New Hope Creek	The Durham/Orange County boundary	City Of Durham Durham County Town Of Chapel Hill
Little Lick Creek	Approximately 0.5 mile downstream of the confluence of Little Lick Creek Tributary 1	Downstream face of Stallings Road	Durham County
Little Lick Creek Tributary 1	The confluence with Little Lick Creek	Approximately 1.1 miles upstream of confluence of Little Lick Creek Tributary 2	City Of Durham Durham County
Little Lick Creek Tributary 3	The confluence with Little Lick Creek	Approximately 1.2 miles upstream of confluence with Little Lick Creek	Durham County
Little Lick Creek Tributary 3A	The confluence with Little Lick Creek Tributary 3	Approximately 250 feet upstream of Rocky Creek Road	City Of Durham Durham County
Little Lick Creek Tributary 4	The confluence with Little Lick Creek Tributary 1	Approximately 0.5 mile upstream of confluence with Little Lick Creek Tributary 1	Durham County
Little River	Approximately 0.4 mile upstream of Vintage Hill Pkwy	Approximately 0.3 mile upstream of Roxboro Road	City Of Durham Durham County
Little River	The confluence with Eno River	Approximately 600 feet downstream of Vintage Hill Pkwy	City Of Durham Durham County
Little River Tributary 1	Approximately 0.7 mile upstream of Guess Road	Approximately 0.8 mile upstream of Dunnegan Road	Durham County
Little River Tributary 2	The confluence with Little River	Approximately 1.7 miles upstream of confluence with Little River	Durham County
Little River Tributary 3	The confluence with Little River	Approximately 0.7 mile upstream of confluence with Little River	Durham County
Little River Tributary 4	The confluence with Little River	Just upstream of Edsel Road	Durham County
Little River Tributary 4A	The confluence with Little River Tributary 4	Approximately 425 feet upstream of Milton Road	Durham County
Little River Tributary 5	The confluence with Little River Tributary 1	Approximately 1,150 feet upstream of Redpine Road	Durham County
Little River Tributary 6	The confluence with Little River Tributary 1	Approximately 0.7 mile upstream of Dunnegan Road	Durham County
Little River Tributary 7	The confluence with Little River Tributary 2	Approximately 0.5 mile upstream of confluence with Little River Tributary 2	Durham County
Martin Branch	The confluence with Lick Creek	Approximately 1.5 miles upstream of confluence with Lick Creek	Durham County
Mill Branch	Entire shoreline within Chatham County (Unincorporated Areas)	Entire shoreline within Chatham County (Unincorporated Areas)	Durham County
Morgan Creek	The confluence with Jordan Lake	The Durham/Orange County boundary	City Of Durham Durham County Town Of Chapel Hill
Mountain Creek	The confluence with Little River	Just upstream of North Old Roxboro Road	Durham County
Mountain Creek Tributary 1	The confluence with Mountain Creek	Approximately 0.7 mile upstream of confluence with Mountain Creek	Durham County
Mountain Creek Tributary 2	The confluence with Mountain Creek	Approximately 0.5 mile upstream of confluence with Mountain Creek	Durham County
Mountain Creek Tributary 2A	The confluence with Mountain Creek Tributary 2	Approximately 1,450 feet upstream of confluence with Mountain Creek Tributary 2	Durham County
Mountain Creek Tributary 3	The confluence with Mountain Creek	Approximately 0.5 mile upstream of confluence with Mountain Creek	Durham County
Mountain Creek Tributary 4	The confluence with Mountain Creek	Approximately 0.8 mile upstream of confluence with Mountain Creek	Durham County
Mountain Creek Tributary 4A	The confluence with Mountain Creek Tributary 4	Approximately 0.6 mile upstream of confluence with Mountain Creek Tributary 4	Durham County

Table 10 - Flooding Sources Studied by Limited Detailed Methods

Source	Riverine Sources		Affected Communities
	From	To	
Mountain Creek Tributary 5	The confluence with Mountain Creek	Approximately 500 feet upstream of Hopkins Road	Durham County
New Hope Creek	The Durham/Chatham County Boundary	Approximately 1,400 feet downstream of Old Chapel Hill Road	City Of Durham Durham County
North Fork Little River Tributary 2	The confluence with North Fork Little River	The Durham/Orange County boundary	Durham County
Northeast Creek	The confluence with B. Everett Jordan Lake	Approximately 1,050 feet upstream of county boundary	Durham County
Northeast Creek Tributary 2	The confluence with Northeast Creek	Approximately 300 feet downstream of Moore Drive	Durham County
Panther Creek	Just upstream of Carpenter Road	Approximately 1.0 mile upstream of Carpenter Road	City Of Durham Durham County
Panther Creek Tributary 1	The confluence with Panther Creek	Approximately 0.6 mile upstream of confluence with Panther Creek	Durham County
Panther Creek Tributary 2	The confluence with Panther Creek Tributary 1	Approximately 0.4 mile upstream of confluence with Panther Creek Tributary 1	Durham County
Rocky Branch	Approximately 0.5 mile downstream of Boyce Mill Road	Approximately 2.1 miles upstream of Boyce Mill Road	Durham County
Rocky Branch	The confluence with Lick Creek	Approximately 0.5 mile upstream of Kemp Road	Durham County
Rocky Branch (near Falls Lake)	Approximately 0.4 mile downstream of Creech Road	Approximately 1.3 miles upstream of Creech Road	Durham County
Rocky Branch Tributary 1	The confluence with Rocky Branch	Approximately 1,850 feet upstream of confluence with Rocky Branch	Durham County
Rocky Creek (Into Flat River)	The confluence with Flat River	Approximately 0.7 mile upstream of Range Road	Durham County
Rocky Creek Tributary 1	The confluence with Rocky Creek	Approximately 500 feet upstream of Range Road	Durham County
Rocky Creek Tributary 2	Rocky Creek Tributary 2	Approximately 1,875 feet upstream of confluence with Rocky Creek	Durham County
Sevenmile Creek Tributary 1	The confluence with Sevenmile Creek	Approximately 1.5 miles upstream of confluence with Sevenmile Creek	Durham County
Southwest Creek Tributary 1	Confluence with Southwest Creek	Approximately 0.5 mile upstream of the confluence with Southwest Creek	City Of Durham Durham County
Stirrup Iron Creek	The Wake/Durham County boundary	Approximately 150 feet downstream of Chin Page Road	City Of Durham Durham County Town Of Morrisville
Stirrup Iron Creek Tributary B	Approximately 0.5 mile upstream of confluence with Stirrup Iron Creek	Approximately 550 feet upstream of Brunson Road	City Of Durham Durham County
Stirrup Iron Creek Tributary B-1	The confluence with Stirrup Iron Creek Tributary B	Approximately 0.4 mile upstream of confluence with Stirrup Iron Creek Tributary B	City Of Durham
Stirrup Iron Creek Tributary C	The confluence with Stirrup Iron Creek	Approximately 650 feet downstream of Chin Page Road	City Of Durham Durham County
Stirrup Iron Creek Tributary D	The confluence with Stirrup Iron Creek	Approximately 1,500 feet upstream of Chin Page Road	City Of Durham Durham County
Sycamore Creek (Basin 18, Stream 6)	Approximately 0.4 mile downstream of Leesville Road	Approximately 1.0 mile upstream of Leesville Road	City Of Raleigh Durham County
Tributary to Stirrup Iron Creek Tributary A	Approximately 50 feet upstream of Lumley Road	Approximately 175 feet upstream of Cherry Blossom Drive	City Of Durham

Table 11, "Stream Name Changes" is not applicable in Durham County.

Table 12, "Letters of Map Revision" is not applicable in Durham County.

Please note that Table 12, Letters of Map Revision, only includes LOMCs that have been issued on the FIRM Panels updated in any given revision. Table 12 is not applicable to this FIS Report as there were no LOMCs issued on the FIRM Panels updated in this report. 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.

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-year, 25-year, 50-year, 100-year, or 500-year period (recurrence interval in years) have been selected as having special significance for floodplain management and for flood insurance rates. These events, commonly termed the 10-year, 25-year, 50-year, 100-year, 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. For details on the county’s hydrologic analyses, the hydrologic report is available by request.

A summary of the drainage area-peak discharge relationships for the flooding sources studied by detailed methods is shown in Table 13, “Summary of Discharges”.

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Basin 18, Stream 13						
Approximately 900 feet downstream of Durham/Wake County boundary	1.10	*	*	1050	*	*
Buffalo Creek (into Little River North Fork)						
Just upstream of the confluence of Little River North Fork	6.23	*	*	4650	5350	*
Buffalo Creek Tributary 1						
At the confluence of Buffalo Creek	0.60	*	*	257	295	*
At the confluence of Buffalo Creek	0.13	*	*	257	295	*
Buffalo Creek Tributary 2						
Approximately 400 feet upstream of Bill Poole Road	2.94	*	*	3200	3740	*
Burdens Creek						
At confluence with Northeast Creek	5.60	2860	3340	4390	5450	6700
Approximately 1,025 feet downstream of Salston Street	4.40	2780	3800	4290	4770	5580
Approximately 100 feet upstream of the confluence of Burdens Creek Tributary	3.20	2270	2810	3160	3340	4060
Approximately 625 feet upstream of the confluence of Burdens Creek Tributary	2.60	2140	2650	2960	3140	3790
Approximately 1,100 feet upstream of Jenkins Road	1.30	1300	1730	1960	2160	2570
At confluence of Burdens Creek Tributary 4	0.70	831	1040	1170	1300	1470
Approximately 1,500 feet upstream of Interstate 40	0.50	792	977	1120	1250	1480
Approximately 125 feet downstream of East Cornwallis Road	0.40	782	1030	1180	1340	1550

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Burdens Creek Tributary						
Immediately downstream of NC Hwy 147 ramp	0.91	1210	1650	1840	1920	2300
At confluence with Burdens Creek	0.90	971	1337	1523	*	2061
Immediately downstream of NC Hwy 54	0.83	1220	1650	1840	1930	2300
Burdens Creek Tributary 4						
Approximately 0.3 miles downstream of NC Hwy 147	0.94	1120	1520	1690	1780	2120
At confluence with Burdens Creek	0.50	749	975	1150	1380	1690
Approximately 120 feet downstream of Interstate 40	0.40	689	959	1120	1350	1530
Just downstream of Laboratory Drive	0.10	233	309	354	410	466
Approximately 160 feet upstream of East Cornwallis Road	0.03	102	133	151	158	196
Cabin Branch						
Approximately 400 feet upstream of the confluence with Little River	3.65	1300	2180	2600	3280	3720
Approximately 300 feet downstream of Snow Hill Road	3.49	1520	2600	3110	3920	4480
Approximately 250 feet upstream of Snow Hill Road	3.22	1530	2590	3090	3880	4420
Approximately 0.33 miles upstream of Snow Hill Road	3.03	1550	2600	3110	3880	4430
Immediately upstream of the confluence of Cabin Branch Tributary	2.15	1260	2090	2490	3050	3510
Approximately 0.45 miles upstream of the confluence of Cabin Branch Tributary	1.98	1220	2030	2420	2960	3400
Approximately 600 feet downstream of Glenoaks Drive	1.45	929	1530	1810	2200	2540
Approximately 0.65 miles upstream of Glenoaks Drive	1.24	857	1400	1650	2020	2310
Approximately 1.06 miles upstream of Glenoaks Drive	0.75	539	864	1010	1170	1390
Approximately 1.45 miles upstream of Glenoaks Drive	0.09	102	167	197	224	273
Camp Creek						
Approximately 0.3 mile upstream of Durham/Granville County boundary	4.67	*	*	1950	2926	2950
Approximately 0.8 mile upstream of Durham/Granville County boundary	3.85	*	*	1730	2211	2620
At confluence of Camp Creek Tributary 3	2.43	*	*	1300	1358	1990
At upstream side of Bahama Road	1.73	*	*	1050	972	1620
Camp Creek Tributary 3						
At confluence with Camp Creek	0.96	*	*	727	926	1130
Camp Creek Tributary 4						
At confluence with Camp Creek	0.70	*	*	569	762	*
Approximately 735 feet upstream of confluence with Camp Creek	0.60	*	*	546	728	*
Approximately 1,893 feet upstream of confluence with Camp Creek	0.50	*	*	461	612	*
Chunky Pipe Creek						
Approximately 0.7 mile upstream of Fletchers Chapel Road	1.05	*	*	2445	*	*
Approximately 0.7 mile upstream of Fletchers Chapel Road	1.05	*	*	*	2601	*
Approximately 1.4 mile upstream of Fletchers Chapel Road	0.65	*	*	1940	*	*
Approximately 1.4 mile upstream of Fletchers Chapel Road	0.65	*	*	*	2092	*
Crooked Creek						
At confluence with Eno River	4.82	*	*	5143	5764	*
Approximately 260 feet downstream of Latta Road	4.47	*	*	4838	5456	*
Approximately 0.2 mile upstream of Ripplebrook Drive	4.00	*	*	4554	5154	*

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Crooked Creek						
Approximately 0.8 mile upstream of Ripplebrook Drive	2.83	*	*	3194	3565	*
Approximately 0.2 mile upstream of Highway 157	2.17	*	*	2899	3262	*
At confluence of Crooked Creek Tributary 1	1.15	*	*	2120	2163	*
Approximately 260 feet downstream of Terry Road	1.06	*	*	2062	2104	*
Crooked Creek (into Eno River) Tributary 2						
At confluence with Crooked Creek	0.80	*	*	1804	*	*
Crooked Creek Tributary 1						
At confluence with Crooked Creek	0.87	*	*	1527	1678	*
Approximately 260 feet upstream of Centennial Drive	0.74	*	*	1143	1294	*
Approximately 0.7 mile upstream of Winkler Road	0.35	*	*	730	909	*
Deep Creek						
Approximately 270 feet upstream of confluence with Flat River	36.87	*	*	7101	7744	10300
Approximately 0.2 mile downstream of the Durham/Person County boundary	32.20	*	*	6450	7124	*
Dial Creek						
At confluence with Flat River	4.97	*	*	1951	2250	3030
Approximately 790 feet upstream of Bahama Road	4.92	*	*	1940	2236	3010
Approximately 0.8 mile downstream of Hampton Road	3.93	*	*	1700	1963	2640
At the upstream side of Hampton Road	2.99	*	*	1460	1755	2240
Approximately 0.7 mile upstream of Hampton Road	2.00	*	*	1150	1434	1760
Approximately 0.4 mile downstream of Red Mountain Road	1.00	*	*	747	962	1160
Ellerbe Creek						
1.3 miles upstream of Wake/Granville County boundary	25.32	*	*	16200	*	*
Approximately 400 feet upstream of Red Mill Road	23.85	6840	9690	11200	12400	15000
Approximately 0.4 miles downstream of Glenn Road	22.09	6730	9530	11000	12200	14700
Approximately 500 feet downstream of Glenn Road	22.02	6840	9800	11300	12600	15100
Approximately 0.9 miles upstream of Glenn Road	20.85	6910	9880	11400	12700	15200
Approximately 1.8 miles upstream of Glenn road	19.78	6950	9930	11400	12700	15100
Approximately 1.2 miles downstream of Club Blvd	19.30	7190	10200	11700	13100	15500
Approximately 1.0 miles downstream of Club Blvd	18.73	7200	10200	11700	13100	15400
Approximately 0.2 miles downstream of Club Blvd	17.39	7500	10600	12100	13600	15800
Approximately 200 feet upstream of Club Blvd	10.83	5090	7310	8310	9080	10600
Immediately downstream of Midland Terrace	10.66	5440	7860	8960	9780	11500
Approximately 80 feet downstream of railroad	10.36	5490	7900	8990	9810	11500
Approximately 0.25 miles downstream of Avondale Drive	9.42	5190	7470	8490	9300	10700
Immediately upstream of Avondale Drive	9.26	5260	7580	8600	9420	10800
Approximately 0.2 miles downstream of West Club Blvd	5.98	2860	3880	4340	4800	5160
Immediately upstream of Lavender Avenue	5.75	2920	3900	4380	4930	5360
Approximately 100 feet downstream of Murray Avenue	5.17	2770	3640	4080	4460	5050
Approximately 75 feet downstream of Duke Street	4.97	2730	3580	4020	4390	4970
Immediately upstream of Broad Street	4.64	2630	3460	3880	4230	4770
Immediately upstream of North Pointe Drive	4.07	2550	3290	3620	3930	4380

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Ellerbe Creek						
Approximately 100 feet downstream of Guess Road	3.81	2300	3080	3400	3700	4290
Immediately upstream of Albany Street	3.45	1890	2660	3090	3460	4160
Immediately upstream of Hillandale Road	2.93	1710	2610	3040	3400	4070
Immediately downstream of US 15-501	1.63	993	1510	1740	1960	2320
Approximately 150 feet upstream of Cole Mill Road	1.24	815	1260	1460	1640	1970
Approximately 100 feet upstream of Shoccoree Drive	1.03	799	1220	1410	1570	1880
Ellerbe Creek Tributary 1						
At confluence with Ellerbe Creek	1.30	*	*	876	*	*
Ellerbe Creek Tributary 4						
At confluence with Ellerbe Creek	0.50	*	*	473	*	*
Ellerbe Creek Tributary A						
Approximately 0.3 miles downstream of Club Boulevard	0.63	626	917	1050	1250	1360
Immediately upstream of Club Boulevard	0.52	607	880	1000	1190	1300
Ellerbe Creek Tributary B						
Approximately 0.4 miles downstream of Dearborn Drive	0.60	717	1050	1200	1370	1580
Immediately downstream of Dearborn Drive	0.49	656	952	1080	1220	1410
Eno River						
At confluence with Neuse River	259.85	*	*	24100	*	33500
Approximately 0.7 mile upstream fo the confluence of Neuse River	259.83	*	*	22200	26100	*
Approximately 500 feet upstream of Red Mill Road	258.87	*	*	22700	26600	*
Approximately 1.2 miles upstream of Red Mill Road	256.60	*	*	23100	27000	*
Approximately 260 feet upstream of Old Oxford Road	149.16	*	*	17933	19032	*
At confluence of Eno River Tributary 1	144.92	*	*	17392	18461	*
Approximately 0.7 mile downstream of Roxboro Road	142.68	*	*	18953	20135	*
At confluence of Crooked Creek	136.57	*	*	16837	19554	*
At confluence of Warren Creek	132.01	*	*	16592	19306	*
At confluence of Eno River Tributary 3	128.29	*	*	16557	19276	*
At confluence of Eno River Tributary Z	123.49	*	*	16299	18920	*
Approximately 0.63 miles upstream of Cole Mill Road in Durham County	120.42	7650	11700	13400	*	17500
Eno River Tributary						
At confluence of Eno River	1.09	*	*	1560	2160	*
Approximately 850 feet downstream of the confluence with Eno River Tributary 7	1.04	*	*	1550	2170	*
Just upstream of the confluence with Eno River Tributary 6	0.60	*	*	997	1530	*
Eno River Tributary 1						
At confluence with Eno River	3.74	*	*	3337	3650	*
Approximately 0.6 mile downstream of Danube Lane	1.41	*	*	3048	3450	*
Approximately 0.2 mile downstream of Danube Lane	0.69	*	*	1782	2128	*
Eno River Tributary 3						
At confluence of Eno River	1.17	*	*	1098	1124	*
Just upstream of November Drive	1.04	*	*	822	848	*

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Eno River Tributary 3						
Approximately 260 feet upstream of Umstead Road	0.97	*	*	843	871	*
At Lake Vista Drive	0.78	*	*	408	443	*
Approximately 300 feet upstream of Mont Haven Drive	0.66	*	*	792	817	*
Approximately 160 feet downstream of Bivins Road	0.44	*	*	1073	1201	*
Approximately 210 feet downstream of Kelvin Drive	0.31	*	*	844	864	*
Eno River Tributary A						
Immediately upstream of the confluence with Eno River	0.72	863	1290	1480	1740	1960
Eno River Tributary Z						
At confluence with Eno River	1.63	*	*	2098	2615	*
Just upstream of Jefferson Drive	1.16	*	*	1922	2472	*
Approximately 260 feet upstream of Cole Mill Road	0.47	*	*	714	954	*
At Regis Avenue	0.24	*	*	236	375	*
Flat River						
At confluence with Neuse River	174.66	*	*	18800	20858	22600
Approximately 1.0 mile upstream of confluence with Neuse River	173.80	*	*	18700	20799	22600
At confluence of Flat River Tributary 1	171.27	*	*	18500	20583	22400
At confluence of Flat River Tributary 2	168.53	*	*	18400	20299	22100
Approximately 0.7 mile upstream of confluence of Flat River Tributary 2	167.98	*	*	18300	20261	22100
At confluence of Rocky Creek	163.07	*	*	25800	19538	35400
At confluence of Flat River Tributary 3	157.92	*	*	25300	19136	34800
Approximately 1.0 mile upstream of confluence of Flat River Tributary 3	155.75	*	*	25100	18985	34500
At confluence of Dial Creek	150.34	*	*	24500	18650	33700
At confluence of Flat River Tributary 4	149.19	*	*	24400	18568	33600
Approximately 1.3 mile upstream of confluence of Flat River Tributary 4	148.39	*	*	24300	18537	33400
Approximately 0.7 mile downstream of State Forest Road	146.45	*	*	23900	18452	32900
Approximately 0.3 mile downstream of State Forest Road	145.57	*	*	23800	18405	32699
Approximately 0.6 mile upstream of State Forest Road	144.58	*	*	23600	18360	32400
Approximately 1.1 miles upstream of State Forest Road	143.62	*	*	23400	18337	32200
Approximately 0.5 mile downstream of Red Mountain Road	141.49	*	*	22900	18182	31600
At confluence of Deep Creek	103.64	*	*	15900	15406	22300
Approximately 0.5 mile upstream of Bowen Road	102.83	*	*	15700	15346	22100
Flat River Tributary 1						
At confluence with Flat River	1.37	*	*	908	1516	1400
Flat River Tributary 2						
At confluence with Flat River	1.82	*	*	1080	1781	1670
Approximately 400 feet upstream of Lake Michie Dam Road	1.14	*	*	808	1311	1250
Flat River Tributary 3						
At confluence with Flat River	4.32	*	*	1860	*	2810
Approximately 0.6 mile upstream of confluence with Flat River	2.28	*	*	1250	1535	1910
Approximately 530 feet downstream of Ellis Chapel Road	2.02	*	*	1160	1448	1780
Approximately 270 feet upstream of Hampton Road	1.04	*	*	762	1006	1190

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Flat River Tributary 4						
At confluence with Flat River	1.09	*	*	784	990	1220
Approximately 0.7 mile upstream of confluence with Flat River	0.80	*	*	647	843	*
Approximately 790 feet downstream of Quail Roost Road	0.70	*	*	579	815	*
Approximately 270 feet upstream of Quail Roost Road	0.30	*	*	355	517	*
Approximately 0.4 mile upstream of Quail Roost Road	0.20	*	*	275	359	*
Approximately 0.7 mile upstream of Quail Roost Road	0.06	*	*	127	169	*
Flat River Tributary 6						
At confluence with Flat River	1.30	*	*	876	1163	*
Approximately 0.4 mile upstream of confluence with Flat River	0.70	*	*	599	887	*
Approximately 0.9 mile upstream of confluence with Flat River	0.50	*	*	502	797	*
Approximately 1.5 miles upstream of confluence with Flat River	0.30	*	*	337	573	*
Approximately 1.6 miles upstream of confluence with Flat River	0.09	*	*	170	314	*
Approximately 1.8 miles upstream of confluence with Flat River	0.05	*	*	111	201	*
Flat River Tributary 7						
At confluence with Flat River	1.20	*	*	820	736	*
Approximately 0.4 mile upstream of confluence with Flat River	1.10	*	*	783	722	*
Approximately 0.8 mile upstream of confluence with Flat River	0.09	*	*	163	144	*
Just downstream of State Forest Road	0.04	*	*	105	80	*
Approximately 950 feet upstream of State Forest Road	0.01	*	*	49	*	*
Flat River Tributary 8						
At confluence with Flat River	1.90	*	*	1123	1352	*
Approximately 1,770 feet upstream of confluence with Flat River	1.80	*	*	1070	1316	*
Approximately 0.5 mile upstream of confluence with Flat River	0.90	*	*	730	985	*
Approximately 0.7 mile upstream of confluence with Flat River	0.80	*	*	690	944	*
Approximately 1.0 mile upstream of confluence with Flat River	0.60	*	*	562	808	*
Goose Creek						
Approximately 160 feet upstream of Interstate 85	4.69	*	*	*	6278	*
Approximately 160 feet upstream of Interstate 85	4.69	*	*	5831	*	*
At US Highway 70	1.89	*	*	*	2537	*
At US Highway 70	1.89	*	*	2417	*	*
Approximately 200 feet downstream East Geer Street	1.46	*	*	*	2047	*
Approximately 200 feet downstream East Geer Street	1.46	*	*	1882	*	*
Approximately 530 feet downstream of Juniper Street	1.11	*	*	1226	*	*
Approximately 530 feet downstream of Juniper Street	1.11	*	*	*	1921	*
Goose Creek Tributary A						
At confluence with Goose Creek	1.81	*	*	3054	*	*
At confluence with Goose Creek	1.81	*	*	*	3262	*
At downstream face of North Miami Boulevard	1.23	*	*	2398	*	*
At downstream face of North Miami Boulevard	1.23	*	*	*	3506	*
Goose Creek Tributary A Divergence						
At the confluence with Goose Creek	*	*	*	1095	*	*

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Gum Creek						
Immediately upstream of the confluence with New Hope Creek	1.78	1170	1700	1940	2080	2550
Approximately 300 feet upstream of NC Hwy 751	1.57	1310	1940	2230	2410	2940
Approximately 0.34 miles upstream of NC Hwy 751	1.34	1250	1830	2090	2260	2740
Approximately 900 feet downstream of Massey Chapel Road	1.11	1130	1620	1840	1990	2390
Approximately 900 feet upstream of Massey Chapel Road	0.93	1060	1500	1690	1820	2170
At the confluence with Tributary to Gum Creek	0.71	882	1220	1370	1470	1750
Immediately upstream of the confluence with Tributary to Gum Creek	0.20	385	531	596	635	753
Knap of Reeds Creek Tributary						
Approximately 0.4 mile upstream of Old Oxford Highway	1.23	*	*	848	*	1320
Approximately 0.9 mile upstream of Old Oxford Highway	0.90	*	*	697	*	1090
Approximately 1.2 miles upstream of Old Oxford Highway	0.75	*	*	621	*	972
Approximately 1.6 miles upstream of Old Oxford Highway	0.34	*	*	380	766	604
Knap of Reeds Creek Tributary 2						
At confluence with Knap of Reeds Creek Tributary	0.30	*	*	327	773	*
Approximately 1,033 feet upstream of confluence with Knap of Reeds Creek Tributary	0.20	*	*	314	744	*
Laurel Creek						
Approximately 0.5 mile upstream of confluence with Lick Creek	3.43	*	*	1609	*	*
Approximately 0.2 mile upstream of Highway 98	2.45	*	*	1300	*	*
Lick Creek						
Approximately 900 feet downstream of confluence of Lick Creek Tributary 2	14.39	*	*	5661	*	*
Approximately 750 feet downstream of Southview Road	10.85	3160	5130	6060	7490	8530
Approximately 0.76 miles downstream of Kemp Road	9.59	3310	5410	6400	7910	9030
Immediately upstream of Kemp Road	8.83	3180	5190	6130	7600	8620
Immediately upstream of Kemp Road	6.33	2230	3450	4020	4920	5620
Approximately 0.42 miles downstream of Olive Branch Road	4.92	2180	3340	3880	4750	5360
Approximately 70 feet downstream of Olive Branch Road	4.56	2170	3330	3870	4740	5330
Approximately 0.38 miles upstream of Olive Branch Road	4.06	2200	3390	3930	4790	5370
Immediately upstream of confluence with Lick Creek Tributary 1	1.81	1080	1660	1930	2450	2640
Approximately 0.80 miles upstream of confluence with Lick Creek Tributary 1	1.37	1020	1550	1790	2280	2440
Lick Creek Tributary 1						
Approximately 1 mile downstream of Kinard Rd	2.05	1280	1910	2190	2510	3020
Approximately 750 feet downstream of Kinard Rd	1.50	1370	2020	2320	2600	3040
Approximately 100 feet downstream of Kinard Road	0.29	408	618	712	884	947
Approximately 1.3 miles upstream of confluence with Lick Creek	0.20	*	*	411	*	*
Little Brier Creek (Basin 18, Stream 15)						
Approximately 740 feet downstream of Durham/Wake County boundary	1.30	*	*	1720	*	*
Approximately 0.3 mile upstream of Durham/Wake County boundary	1.10	*	*	791	*	*
Little Brier Creek East (Basin 18, Stream 16)						
Approximately 0.3 mile upstream of Durham/Wake County boundary	0.41	*	*	855	*	*
Approximately 790 feet downstream of Leesville Road	0.17	*	*	354	*	*

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Little Brier Creek Tributary 1						
At confluence with Little Brier Creek (Basin 18, Stream 15)	0.40	*	*	420	*	*
Approximately 0.4 mile upstream of confluence with Little Brier Creek (Basin 18, Stream 15)	0.31	*	*	357	*	*
Approximately 0.6 mile upstream of confluence with Little Brier Creek (Basin 18, Stream 15)	0.13	*	*	204	*	*
Little Brier Creek Tributary 2						
At confluence with Little Brier Creek (Basin 18, Stream 15)	0.11	*	*	184	*	*
Little Creek						
Just upstream of the confluence with New Hope Creek	25.27	*	*	7280	8190	*
Approximately 1.0 mile downstream of Farrington Road	24.46	*	*	7380	8310	*
Approximately 0.25 mile upstream of Farrington Road	23.59	*	*	8220	9310	*
Approximately 0.7 mile downstream of NC Hwy 54	22.35	*	*	8770	10000	*
Just upstream of NC Hwy 54	21.67	*	*	8810	10100	*
Approximately 0.5 mile upstream of NC Hwy 54	20.75	*	*	8800	10100	*
Approximately 0.7 mile upstream of confluence with New Hope River	4.70	*	*	5517	*	*
Little Lick Creek						
Approximately 200 feet downstream of Stallings Road	10.29	3590	5420	6200	7240	8510
Just upstream of Stallings Road	10.10	3660	5520	6310	7380	8740
At the confluence of Little Lick Creek Tributary 1B	9.99	3660	5510	6310	7380	8750
Just upstream of the confluence of Little Lick Creek Tributary 1B	6.84	2570	3950	4640	5580	6410
Approximately 0.45 mile upstream of the confluence of Little Lick Creek Tributary 1B	6.47	2530	3890	4570	5500	6300
Approximately 130 feet downstream of North Mineral Springs Road	6.02	2710	4290	5060	6160	7040
Approximately 200 feet downstream of Wake Forest Highway	3.85	2160	3340	3870	4600	5180
Just upstream of the confluence of Little Lick Creek Tributary 2	1.46	928	1320	1490	1760	1940
Approximately 100 feet downstream of Valencia Drive	1.43	1100	1520	1710	2000	2190
Approximately 200 feet downstream of Gibson Road	1.33	1050	1450	1630	1920	2100
Little Lick Creek Tributary 1						
At confluence with Little Lick Creek	1.96	*	*	2192	*	*
Little Lick Creek Tributary 1B						
At the confluence with Little Lick Creek	3.15	1290	1670	1890	2110	2590
Immediately upstream of Oak Grove Parkway	3.01	1310	1810	2090	2330	2750
Approximately 400 feet downstream of Wake Forest Highway	2.95	1310	1790	2070	2280	2680
Approximately 100 feet upstream of Wake Forest Highway	2.57	1250	1550	1630	1760	2530
Approximately 250 feet downstream of Nicholas Farm Drive	2.24	1200	1430	1500	1680	2500
Immediately upstream of Nicholas Farm Drive	2.24	1980	3050	3530	4170	4740
Approximately 0.53 mile upstream of Nicholas Farm Drive	1.90	1790	2720	3150	3720	4190
Approximately 100 feet downstream of Bellmeade Bay Drive	1.59	1510	2280	2620	3130	3470
Approximately 120 feet upstream of Holder Road	1.43	1500	2250	2590	3110	3400
Approximately 160 feet downstream of Danbury Drive	1.02	1080	1590	1810	2190	2370
Approximately 520 feet upstream of of Danbury Drive	0.98	1050	1550	1770	2140	2310
Approximately 1000 feet downstream of Delmar Drive	0.77	940	1380	1580	1910	2080

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Little Lick Creek Tributary 1B						
Approximately 100 feet downstream of Delmar Drive	0.23	269	403	463	634	612
Little Lick Creek Tributary 1D						
Approximately 0.35 mile downstream of Chandler Road	0.63	689	993	1130	1210	1460
Approximately 150 feet downstream of Chandler Road	0.56	653	940	1070	1150	1380
Little Lick Creek Tributary 2						
Approximately 200 feet upstream of Lynn Road	1.75	1560	2300	2640	3120	3470
Little Lick Creek Tributary 3						
Immediately upstream of the confluence with Little Lick Creek	2.05	1470	2250	2600	3100	3470
Approximately 0.30 miles upstream of Lynn Road	1.59	1510	2210	2530	3000	3330
Little River						
Approximately 1.03 miles downstream of Vintage Hill Parkway	98.91	6300	10900	13300	15600	20000
Approximately 50 feet upstream of Vintage Hill Parkway	97.34	6320	11100	13500	15900	20400
Approximately 500 feet downstream of US Hwy 501	80.36	*	*	13300	15300	*
Approximately 250 feet upstream of US Hwy 501	79.37	*	*	13300	15300	*
Approximately 0.63 miles downstream of Johnson Mill Road	78.43	6360	11000	13200	15300	19400
Immediately upstream of Johnson Mill Road	78.21	6350	11000	13200	15300	19400
Approximately 0.62 miles upstream of Johnson Mill Road	77.27	6330	10900	13200	15200	19300
Immediately upstream of the confluence of Little River Tributary 1	72.15	6220	10700	13000	15000	18900
Little River North Fork						
Immediately upstream of the confluence with Little River	32.92	3600	6470	7890	9730	11800
Immediately upstream of the confluence of Little River North Fork Tributary 1	30.35	3450	6220	7590	9400	11300
Immediately upstream of South Lowell Road	29.76	3420	6180	7540	9350	11300
Approximately 0.41 mile upstream of South Lowell Road	29.35	3470	6350	7750	9680	11600
Approximately 0.73 mile upstream of South Lowell Road	28.41	3440	6330	7730	9680	11600
Approximately 1.17 mile upstream of South Lowell Road	22.09	2500	4170	5080	6440	7570
Little River North Fork Tributary 1						
Immediately upstream of the confluence with Little River North Fork	2.16	913	1620	1940	2340	2770
Approximately 200 feet downstream of South Lowell Road	1.22	541	892	1090	1360	1550
Approximately 0.6 miles upstream of South Lowell Road	0.90	416	753	913	1160	1330
Approximately 1.1 miles upstream of South Lowell Road	0.70	373	655	789	1020	1130
Little River South Fork						
Immediately upstream of the he confluence with Little River	39.01	3810	6850	8340	9800	12400
Approximate 400 feet upstream of the confluence with Little River	38.93	*	*	8340	9790	*
Approximately 100 feet downstream of Guess Road	38.06	*	*	8300	9760	*
Little River Tributary 1						
Immediately upstream of the confluence with Little River	4.04	1880	3460	4230	4790	6310
Approximately 50 feet upstream of Guess Road	3.65	1780	3300	4040	4570	5970
Approximately 0.64 mile upstream of Guess Road	2.48	1430	2570	3120	3620	4530
Just downstream of St. Mary's Road	1.48	*	*	1980	2350	*
Little River Tributary 2						
Just upstream of the confluence with Little River	1.16	*	*	1390	1840	*

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Little River Tributary 2						
At the confluence with Little River Tributary 7	1.01	*	*	1260	1680	*
Little River Tributary 3						
Approximately 0.5 mile upstream of the confluence with Little River	1.06	*	*	1610	1760	*
Just upstream of the confluence with Little River	1.02	*	*	1580	1730	*
Little River Tributary 4						
Just upstream of the confluence with Little River	2.03	*	*	2350	2590	*
Approximately 0.6 mile upstream of US Hwy 501	1.20	*	*	1800	2010	*
Little River Tributary 4A						
At the confluence of Little River Tributary 4	0.60	*	*	833	918	*
Approximately 0.75 mile upstream of the confluence of Little River Tributary 4	0.21	*	*	479	558	*
Approximately 1.0 mile upstream of the confluence of Little River Tributary 4	0.08	*	*	203	237	*
Little River Tributary 5						
At the confluence of Little River Tributary 1	0.62	*	*	772	879	*
Approximately 0.3 mile upstream of the confluence of Little River Tributary 1	0.55	*	*	683	777	*
Approximately 0.5 mile upstream of the confluence of Little River Tributary 1	0.45	*	*	559	649	*
Little River Tributary 6						
At the confluence of Little River Tributary 1	0.84	*	*	973	1170	*
Approximately 700 feet upstream of the confluence of Little River Tributary 1	0.74	*	*	819	1020	*
Approximately 0.4 mile upstream of the confluence of Little River Tributary 1	0.40	*	*	429	512	*
Approximately 0.5 mile upstream of the confluence of Little River Tributary 1	0.35	*	*	404	484	*
Approximately 0.8 mile upstream of the confluence of Little River Tributary 1	0.27	*	*	324	412	*
Little River Tributary 7						
At the confluence with Little River Tributary 2	0.10	*	*	198	243	*
Martin Branch						
Approximately 500 feet upstream of Duke Street	2.50	1350	2220	2640	3360	3720
Just upstream of Interstate 85	2.40	1380	2290	2710	3410	3810
Just upstream of Guess Road	2.20	1350	2220	2630	3260	3680
Approximately 400 feet upstream of Club Blvd	1.80	1160	1930	2290	2880	3200
Mountain Creek						
At confluence of Little River	8.98	*	*	3580	4250	*
Approximately 800 feet upstream of John Jones Road	8.16	*	*	3350	3970	*
Approximately 0.5 mile upstream of Ball Road	7.23	*	*	3100	3610	*
Approximately 1,200 feet downstream of the confluence with Mountain Creek Tributary 1	6.30	*	*	2930	3330	*
Approximately 900 feet upstream of US Hwy 501	5.15	*	*	2390	2700	*
Just downstream of the confluence with Mountain Creek Tributary 1	4.83	*	*	2310	2620	*
Just upstream of the confluence with Mountain Creek Tributary 3	3.87	*	*	3100	3470	*
Just downstream of George Hopkins Road	3.00	*	*	2840	3200	*
Approximately 1,200 feet upstream of George Hopkins Road	2.02	*	*	2240	2510	*
Approximately 1.0 mile upstream of George Hopkins Road	1.19	*	*	1520	1760	*

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Mountain Creek Tributary 1						
At confluence of Mountain Creek	0.27	*	*	459	522	*
Approximately 850 feet upstream of the confluence of Mountain Creek	0.25	*	*	435	493	*
Approximately 600 feet downstream of S Lowell Road	0.08	*	*	189	190	*
Mountain Creek Tributary 2						
At confluence of Mountain Creek	0.28	*	*	437	580	*
Just upstream of the confluence with Mountain Creek Tributary 2A	0.19	*	*	280	386	*
Approximately 1,500 feet upstream of the confluence with Mountain Creek Tributary 2A	0.13	*	*	209	285	*
Mountain Creek Tributary 2A						
At confluence of Mountain Creek Tributary 2	0.06	*	*	146	151	*
Approximately 1,300 feet upstream of the confluence with Mountain Creek Tributary 2	0.02	*	*	54	52	*
Mountain Creek Tributary 3						
At confluence of Mountain Creek	0.14	*	*	245	312	*
Approximately 1,500 feet upstream of the confluence of Mountain Creek	0.07	*	*	124	163	*
Approximately 0.6 mile upstream of the confluence of Mountain Creek	0.02	*	*	36	51	*
Mountain Creek Tributary 4						
At confluence of Mountain Creek	0.35	*	*	603	726	*
Just downstream of the confluence with Mountain Creek Tributary 4A	0.12	*	*	240	256	*
Approximately 0.5 mile upstream of the confluence with Mountain Creek Tributary 4A	0.01	*	*	31	34	*
Mountain Creek Tributary 4A						
At confluence of Mountain Creek Tributary 4	0.18	*	*	324	404	*
Approximately 0.5 mile upstream of the confluence with Mountain Creek Tributary 4	0.02	*	*	66	74	*
Mountain Creek Tributary 5						
At confluence of Mountain Creek	0.25	*	*	422	546	*
Approximately 1,500 feet downstream of George Hopkins Road	0.17	*	*	290	379	*
Approximately 800 feet downstream of George Hopkins Road	0.10	*	*	202	243	*
Just downstream of George Hopkins Road	0.04	*	*	78	94	*
Mud Creek						
Immediately upstream of the confluence with New Hope Creek	5.87	1690	2680	3150	3610	4360
Immediately downstream of Cottonwood Drive	5.60	1890	2870	3350	3850	4630
Immediately upstream of Pickett Road	5.32	1920	2930	3420	3890	4720
Approximately 0.4 miles upstream of Pickett Road	4.03	1640	2430	2830	3370	3940
Immediately upstream of West Cornwallis Road	3.45	1660	2460	2820	3470	3920
Approximately 600 feet downstream of Erwin Road	2.56	1170	1900	2260	2850	3180
Approximately 0.65 miles downstream of NC Hwy 751	1.60	1070	1720	2020	2600	2770
Approximately 200 feet upstream of Constitution Drive	0.87	781	1230	1440	1810	1950
Approximately 70 feet downstream of American Drive	0.56	583	898	1040	1370	1400

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
New Hope Creek						
Just upstream of the confluence of Little Creek	79.42	*	*	14800	16500	*
Approximately 1.0 mile upstream of the confluence of Little Creek	78.90	*	*	15700	17400	*
Just upstream of the confluence with Gum Swamp	76.00	*	*	16500	18300	*
Approximately 0.7 mile upstream of Stagecoach Road	74.94	*	*	16600	18300	*
Approximately 0.2 mile upstream of Interstate 40	57.31	*	*	12100	13700	*
Approximately 0.25 mile downstream of NC Hwy 54	55.93	*	*	12400	14100	*
Approximately 1.0 mile upstream of NC Hwy 54	55.34	*	*	13400	15300	*
Approximately 0.7 miles downstream of Old Chapel Hill Road	52.17	7610	12200	14500	16600	20600
Approximately 0.3 miles downstream of Old Chapel Hill Road	52.14	8190	13000	15400	17800	22100
Immediately upstream of confluence with Sandy Creek Tributary A	49.30	7880	12600	14900	17300	21300
Approximately 0.45 miles downstream of Durham-Chapel Hill Boulevard	42.46	5200	9280	11100	13100	16100
Just upstream of the confluence with Mud Creek	36.54	4170	7470	9030	10800	13200
Immediately upstream of confluence of New Hope Creek Tributary 1	33.86	4000	7010	8450	10100	12400
Approximately 1.0 mile upstream of the confluence of New Hope Creek Tributary 1	33.60	4250	7290	8720	10400	12600
Approximately 0.8 mile upstream of confluence with New Hope River	5.20	*	*	13000	*	*
New Hope Creek Tributary 1						
Immediately upstream of confluence with New Hope Creek	2.60	1260	1940	2260	2540	3070
Approximately 250 feet downstream from Mount Moriah Road	2.29	1450	2180	2510	2850	3340
North Fork Little River Tributary 2						
At the confluence of North Fork Little River Tributary 2	0.88	*	*	1430	1680	*
Approximately 700 feet downstream of the Orange County Boundary	0.34	*	*	578	668	*
Northeast Creek						
At the confluence of Kit Creek	23.50	*	*	9060	*	*
Approximately 265 feet downstream of confluence of Northeast Creek Tributary D	21.20	5970	7670	8840	9860	11200
Approximately 0.6 mile downstream of confluence of Burdens Creek	18.80	6150	7620	8790	9910	11700
Approximately 1,015 feet upstream of confluence of Burdens Creek	13.10	3330	4590	5490	6570	7830
Approximately 0.6 mile downstream of Highway 54	12.40	3390	4600	5720	6630	9110
Approximately 780 feet downstream of Interstate 40	10.80	3400	4600	5710	6550	8550
Approximately 350 feet upstream of confluence of Northeast Creek North Prong	7.20	2440	3180	3710	5780	7350
Approximately 550 feet upstream of Alston Road	6.50	2410	3180	4010	6380	7390
Approximately 0.5 mile downstream of Asphalt Road	6.00	2370	3150	4050	6270	7310
Approximately 260 feet upstream of Asphalt Road	4.30	1890	2820	3950	5390	6020
Approximately 100 feet upstream of confluence of Northeast Creek Tributary 2	3.30	1860	3100	3790	5100	5660
Approximately 0.4 mile upstream of confluence of Northeast Creek Tributary 2	3.10	1960	3140	3840	5170	5730
Approximately 0.6 mile upstream of confluence of Northeast Creek Tributary 2	2.60	1840	2910	3550	4900	5310
Northeast Creek North Prong						
At confluence with Northeast Creek	3.50	1790	2400	2760	3810	4650
Just upstream of confluence of Northeast Creek North Prong Tributary	3.04	1600	2220	2610	3600	4510

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Northeast Creek North Prong						
Approximately 1,250 feet downstream of Odyssey Drive	2.20	1260	1890	2320	3060	3850
Just upstream of the confluence of Northeast Creek North Prong Tributary A	0.90	626	954	1430	1840	2190
Approximately 1,700 feet downstream of Highway 55	0.50	654	997	1210	1400	1760
Northeast Creek North Prong Tributary						
At confluence with Northeast Creek North Prong	0.40	407	579	667	*	926
Immediately upstream of confluence with Northeast Creek North Prong, approximately 1360 feet downstream*	0.39	426	627	716	754	937
Immediately downstream of Carpenter Fletcher Road	0.30	396	575	654	689	850
Approximately 200 feet below North Bend Drive	0.28	393	572	651	685	846
Northeast Creek North Prong Tributary A						
Immediately upstream of confluence with Northeast Creek North Prong, approximately 500 feet downstream	0.96	1050	1540	1760	2070	2300
At confluence with Northeast Creek North Prong	0.90	895	1301	1513	*	2148
Immediately downstream of Yorktown Avenue	0.84	1030	1480	1690	2010	2190
Approximately 400 feet upstream of Bainbridge Drive	0.75	1070	1530	1740	2110	2270
Approximately 115 feet upstream of Industry Lane	0.48	656	944	1080	1290	1410
Approximately 190 feet upstream of Cornwallis Road	0.35	480	710	817	1110	1070
Approximately 85 feet upstream of Alfred Street	0.16	292	426	487	674	635
Immediately downstream of Akron Avenue	0.11	201	297	340	496	446
Northeast Creek Tributary 1						
Immediately upstream of confluence with Northeast Creek, approximately 375 feet downstream of Cornwallis Road	1.45	1440	2020	2280	2630	2930
Approximately 520 feet upstream of Cornwallis Road	1.42	1420	1990	2250	2610	2900
Immediately downstream of Dam, approximately 740 feet downstream of UNC TV Drive	1.32	1390	1950	2200	2570	2820
Immediately downstream of UNC TV Drive	1.28	1390	1950	2200	2600	2830
Immediately downstream of Private Drive at 8 TW Alexander Drive	0.95	1350	1860	2090	2550	2650
Immediately downstream of Moore Drive	0.82	1200	1660	1860	2330	2360
Immediately downstream of Durham Freeway	0.76	1110	1540	1730	2220	2200
Approximately 615 feet upstream of Durham Freeway	0.42	555	781	880	1340	1130
Approximately 0.53 miles upstream of Durham Freeway	0.25	326	466	528	868	680
Approximately 1,960 feet downstream of Southern Railroad	0.21	299	429	485	732	624
Immediately downstream of Southern Railroad	0.13	177	256	291	489	378
Northeast Creek Tributary C						
At confluence with Northeast Creek	0.90	957	1339	1534	*	2104
At confluence with Northeast Creek	0.90	957	1339	1534	*	2104
Immediately downstream of Grandale Road	0.88	316	491	573	617	757
Immediately downstream of Sedwick Road	0.71	232	369	431	481	582
Immediately upstream of Parkwood Lake Dam	0.69	500	709	803	896	1040
Immediately downstream of Clermont Road	0.48	510	743	849	1030	1120
Approximately 760 feet upstream of Clermont Road	0.37	502	718	816	1010	1060

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Northeast Creek Tributary C						
Immediately downstream of Seaton Road	0.23	320	470	540	681	705
Immediately downstream of McCormick Road	0.15	212	313	359	478	471
Northeast Creek Tributary D						
Immediately downstream of Grandale Drive	0.21	444	636	721	751	929
Immediately upstream of confluence with Northeast Creek, approximately 2600 feet downstream of Scot*	1.34	1040	1610	1860	1960	2490
At confluence with Northeast Creek	1.20	1284	1852	2144	*	3012
Immediately downstream of Scott King Road	1.15	1140	1700	1950	2050	2560
Approximately 1560 feet downstream of Lyon Farm Drive	0.98	1170	1740	1990	2150	2610
Approximately 860 feet downstream of Lyon Farm Drive	0.81	1060	1530	1750	1880	2280
Approximately 1330 feet upstream of Lyon Farm Drive	0.60	1060	1500	1710	1840	2200
Panther Creek						
Approximately 1.1 miles upstream of confluence with Neuse River	4.99	*	*	7799	*	*
Approximately 1.5 miles upstream of confluence with Neuse River	4.66	*	*	7356	*	*
Approximately 1.8 miles downstream of Burton Road	4.45	2320	3460	4010	4460	5430
Approximately 2.0 miles upstream of confluence with Neuse River	4.18	*	*	6725	*	*
Approximately 1.6 miles downstream of Burton Road	4.08	2410	3560	4110	4590	5550
Approximately 1.1 miles downstream of Burton Road	3.77	2440	3630	4180	4650	5640
Approximately 0.9 miles downstream of Burton Road	3.30	2340	3390	3870	4230	5180
Approximately 0.5 miles downstream of Burton Road	2.97	2160	3030	3470	3840	4730
Immediately upstream of Burton Road	2.58	1880	2820	3270	3710	4410
Approximately 1.0 mile downstream of Carpenter Road	2.18	1760	2630	3030	3420	4050
Approximately 0.4 miles downstream of Carpenter Road	1.15	1140	1690	1950	2280	2580
Approximately 800 feet downstream of Carpenter Road	1.08	1140	1690	1940	2290	2570
Immediately downstream of Carpenter Road	0.93	980	1450	1660	1950	2190
Rocky Branch (near Falls Lake)						
Approximately 0.45 mile downstream of Creech Road	1.11	*	*	796	*	*
Rocky Creek						
At confluence with Third Fork Creek	3.70	2340	2990	3370	3620	4630
Just downstream of Railroad	3.10	2280	2910	3270	3530	4480
Just downstream of Elmira Avenue	2.90	2250	2880	3250	3520	4490
Approximately 250 feet downstream of South Alston Avenue	1.90	1560	2210	2630	3250	4170
Approximately 600 feet upstream of South Alston Avenue	1.50	1460	2090	2500	3060	3840
Approximately 1,250 feet upstream of Bacon Street	0.70	819	1220	1530	1910	2260
Approximately 1,250 feet downstream of Briggs Road	0.60	849	1260	1540	1930	2270
Approximately 350 feet downstream of Briggs Road	0.30	428	658	802	992	1180
Rocky Creek (Into Flat River)						
At confluence with Flat River	3.91	*	*	1750	*	2650
Approximately 0.2 mile upstream of confluence with Flat River	3.81	*	*	1720	*	2610
Approximately 0.7 mile upstream of confluence with Flat River	2.85	*	*	1430	2880	2180
Approximately 0.5 mile upstream of Ellis Chapel Road	1.99	*	*	1140	2446	1760
Approximately 0.4 mile upstream of Range Road	1.00	*	*	746	1660	1160

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Rocky Creek Tributary 1						
At confluence with Rocky Creek	0.40	*	*	433	914	*
Approximately 0.5 mile upstream of confluence with Rocky Creek	0.30	*	*	364	741	*
Approximately 0.7 mile upstream of confluence with Rocky Creek	0.20	*	*	208	429	*
Rocky Creek Tributary 2						
At confluence with Rocky Creek	0.04	*	*	107	183	*
Approximately 1,161 feet upstream of confluence with Rocky Creek	0.02	*	*	74	260	*
Sandy Creek						
Immediately upstream of the confluence with New Hope Creek	6.80	3180	4630	5300	5690	7040
Immediately upstream of Highway 15/501	6.52	3250	4720	5370	5790	7150
Approximately 1200 feet upstream of Highway 15/501	6.25	3560	5040	5730	6170	7650
Immediately upstream of Pickett Road	5.83	3880	5400	6160	6690	8070
Approximately 0.3 miles upstream of Pickett Road	5.30	3620	5080	5810	6300	7600
Approximately 150 feet upstream of West Cornwallis Road	1.98	1540	2190	2490	2820	3230
Immediately downstream of Hole 7 golf cart path	1.70	1620	2320	2640	3120	3410
Immediately downstream of Cameron Boulevard	1.50	1530	2180	2470	2980	3180
Approximately 760 feet upstream of the Center for Campus Living Road	0.90	990	1400	1590	1920	2040
Sandy Creek Tributary A						
Immediately upstream of the confluence with New Hope Creek	1.66	1420	2060	2340	2580	3030
Immediately upstream of University Drive	1.48	1490	2140	2430	2670	3140
Immediately upstream of Martin Luther King Jr. Parkway	1.20	1280	1830	2080	2280	2680
Sandy Creek Tributary D						
Approximately 200 feet upstream of West Cornwallis Road	2.70	2060	3080	3550	3810	4710
Immediately upstream of Duke Golf Club Hole 12 golf cart trail	2.55	2050	3090	3560	3830	4730
Approximately 0.33 miles downstream of Cameron Boulevard	1.80	1550	2280	2610	2920	3430
Immediately upstream of Cameron Boulevard	1.59	1490	2210	2530	2850	3320
Approximately 0.22 miles downstream of Anderson Street	1.00	1040	1540	1770	2030	2320
Sevenmile Creek						
At confluence with Eno River	2.66	*	*	1306	1348	*
Approximately 250 feet downstream Continental Drive	2.50	*	*	967	1011	*
Approximately 0.3 mile upstream of Inverness Drive	0.59	*	*	1079	1143	*
Approximately 250 feet downstream Bivins Road	0.22	*	*	532	673	*
South Ellerbe Creek						
At the confluence with Ellerbe Creek	2.90	3140	4380	4950	5280	6310
Approximately 170 feet downstream West Club Blvd	1.43	1530	2100	2360	2510	3010
Approximately 500 feet upstream of Duke Street	1.12	1350	1800	2040	2180	2640
Immediately upstream of Interstate 85	0.99	1230	1660	1880	2000	2430
Immediately upstream of Guess Road	0.80	989	1390	1580	1680	2020
Immediately upstream of West Club Blvd	0.75	991	1390	1570	1670	2000
South Ellerbe Creek Tributary						
Immediately downstream of Interstate 85	1.38	1740	2540	2910	3100	3810
Immediately downstream of West Knox Street	1.26	1930	2810	3210	3410	4170

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
South Ellerbe Creek Tributary						
Immediately upstream of West Markham Avenue	0.89	1620	2260	2550	2690	3250
Approximately 950 feet upstream of West Markham Avenue	0.77	1470	2060	2320	2440	2940
Southwest Creek						
Approximately 1,230 feet downstream of Chatham/Durham County boundary	4.00	1540	1960	2210	*	2890
Approximately 860 feet downstream of Highway 751	3.50	1340	1680	1890	1920	2490
Approximately 30 feet upstream of Scott King Road	3.10	1240	1480	1630	1670	2010
Approximately 0.5 mile upstream of Scott King Road	2.90	1120	1360	1490	1520	1820
Approximately 835 feet downstream of railroad	2.60	841	910	958	980	1050
Approximately 440 feet downstream of railroad	2.30	1480	1910	2170	2230	2810
Approximately 570 feet downstream of Herndon Road	1.80	1390	1730	1920	1990	2390
Approximately 170 feet downstream of NC 54/I-40	1.30	939	1190	1330	1390	1710
Approximately 80 feet downstream of Monterrey Creek Drive	1.00	806	942	1190	1630	1690
Approximately 1,310 feet downstream of Lakeshore Drive	0.80	841	1030	1150	1330	1430
Approximately 445 feet upstream of Lakeshore Drive	0.40	420	621	742	1060	1040
Approximately 890 feet downstream of Ebon Road	0.10	266	409	497	729	726
Southwest Creek Tributary 1						
At confluence with Southwest Creek	0.20	*	*	289	*	*
Stirrup Iron Creek						
At Durham/Wake County boundary	8.19	*	*	2770	*	*
Approximately 0.4 mile downstream of Page Road	7.87	*	*	2700	*	*
At confluence of Stirrup Iron Creek Tributary D	6.38	*	*	2370	*	*
Approximately 0.6 miles downstream of Chin Page Road	4.56	2030	2920	3320	3570	4360
At confluence of Stirrup Iron Creek Tributary C	4.45	*	*	1900	*	*
Immediately downstream of Chin Page Road	4.14	2320	3310	3750	4010	4900
Approximately 0.3 miles upstream of Chin Page Road	3.91	2340	3320	3760	4000	4900
Immediately upstream of the confluence with Stirrup Iron Tributary B	2.85	1590	2280	2590	2720	3410
Approximately 180 feet upstream of railroad	2.48	1960	2760	3110	3360	4020
Immediately upstream of General Electric Drive	2.36	1940	2740	3100	3350	4010
Immediately upstream of the confluence with Stirrup Iron Tributary A	1.37	806	1200	1400	1620	2060
Approximately 100 feet upstream of TW Alexander Drive	1.25	781	1180	1370	1600	2050
Approximately 600 feet upstream of TW Alexander Drive	1.06	666	1030	1200	1400	1820
Approximately 800 feet downstream of Lumley Road	0.91	612	946	1100	1280	1670
Immediately downstream of Dam 1 - Lakeshore Golf Course	0.84	600	930	1084	1293	1725
Flow into and through Shore Lake	0.34	951	1378	1572	1754	2047
Immediately downstream of Dam 2 - Lakeshore Golf Course	0.34	350	518	598	724	799
Immediately downstream of bridge, approximately 690 feet upstream of Cart Path at Hole 17 at Lakeshore Golf Course	0.32	415	613	701	763	920
Immediately downstream of Cart Path at Tee for Hole 6 at Lakeshore Golf Course	0.24	386	557	632	683	817
Immediately downstream of Cart Path at Tee for Hole 13 at Lakeshore Golf Course	0.17	315	448	510	552	658
Immediately downstream of Dirt Path on Private Property, approximately 1180 feet upstream of Carth*	0.05	171	243	274	298	351

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Stirrup Iron Creek Tributary A						
Approximately 100 feet upstream of TW Alexander Drive	0.68	1020	1460	1650	1740	2140
Approximately 0.3 miles upstream of TW Alexander Drive	0.25	407	579	655	686	843
Immediately downstream of Cedar Grove Drive	0.23	409	581	657	685	843
Immediately upstream of Appling Way	0.21	391	555	628	654	806
Immediately upstream of Lumley Road	0.13	259	367	414	430	531
Stirrup Iron Creek Tributary B						
Immediately upstream of IBM Property South Entrance Drive to B510	0.97	805	1130	1280	1520	1650
Immediately downstream of IBM Property North Entrance Drive to B510	0.89	773	1080	1220	1490	1580
Immediately upstream of GE Aircraft Engine Drive	0.67	701	986	1120	1410	1440
Approximately 580 feet upstream of GE Aircraft Engine Drive	0.57	667	942	1070	1100	1370
Stirrup Iron Creek Tributary C						
Approximately 0.47 miles downstream of Chin Page Road	1.81	1210	1830	2120	2730	2870
Approximately 760 feet downstream of Chin Page Road	1.75	1210	1840	2130	2740	2880
Approximately 0.52 miles upstream of Chin Page Road	1.05	938	1410	1630	1980	2180
Approximately 0.88 miles upstream of Chin Page Road	0.92	885	1320	1530	1860	2060
Approximately 0.3 miles downstream of Roache Drive	0.61	741	1070	1210	1390	1570
Immediately upstream of Roche Drive	0.48	722	1040	1180	1340	1520
Approximately 400 feet upstream of Roche Drive	0.34	548	782	885	1030	1140
Immediately downstream of TW Alexander Drive	0.30	543	776	879	1030	1130
Approximately 250 feet upstream of TW Alexander Drive	0.14	237	341	387	469	499
Stirrup Iron Creek Tributary D						
At confluence with Stirrup Iron Creek	0.54	*	*	510	*	*
Sycamore Creek (Basin 18, Stream 6)						
Approximately 0.3 mile downstream of Leesville Road	1.70	*	*	1230	*	*
Approximately 0.2 mile upstream of Leesville Road	1.00	*	*	1040	*	*
Third Fork Creek						
Approximately 700 feet upstream of confluence of Third Fork Creek Tributary A	14.80	4700	6240	9240	10400	13100
Approximately 275 feet upstream of the confluence of Third Fork Creek Tributary D	12.20	4530	6750	8010	8360	11300
Approximately 1,775 feet upstream of South Roxboro Street	11.30	4500	6660	7890	8230	11100
Approximately 0.8 mile upstream of South Roxboro Street	10.90	4670	6660	7920	8260	11300
Approximately 0.8 mile downstream of Martin Luther King Jr. Parkway	10.50	4700	6640	7900	8300	11300
Just downstream of Martin Luther King Jr. Parkway	8.50	4410	6110	7140	7370	10200
Approximately 0.5 mile upstream of Martin Luther King Jr. Parkway	7.80	4480	6060	7060	7280	10200
Approximately 475 feet downstream of West Weaver Street	3.60	2750	4150	4970	5020	7020
Approximately 175 feet upstream of the confluence of Third Fork Creek Tributary E	2.30	2220	3210	3730	3780	4930
Just downstream of East Forest Hills Boulevard	1.20	1370	1810	2060	2120	2700
Third Fork Creek Tributary						
Approximately 370 feet downstream of Devon Road	0.50	578	751	849	860	1256
Approximately 210 feet downstream of Archdale Drive	0.20	627	844	956	974	1260

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Third Fork Creek Tributary A						
Approximately 735 feet downstream of Highgate Drive	0.80	907	1293	1524	1533	2050
Approximately 470 feet downstream of Rollingwood Drive	0.50	805	1137	1333	1384	1835
Approximately 150 feet downstream of Southpoint Crossing Drive	0.20	480	656	768	788	1030
Just upstream of Southpoint Crossing Drive	0.10	347	467	518	*	657
Third Fork Creek Tributary C						
Approximately 550 feet upstream of South Roxboro Street	2.10	1798	2663	3218	3288	4630
Approximately 630 feet upstream of Hope Valley Road	1.70	1722	2482	2829	2904	3931
Approximately 460 feet downstream of Dover Drive	1.60	1631	2359	2791	2846	3876
Approximately 470 feet downstream of Surry Road	1.20	1192	1726	2049	2131	2942
Approximately 700 feet downstream of Devon Road	0.60	782	1134	1307	1382	1758
Approximately 1,507 feet downstream of Archdale Drive	0.50	754	989	1125	1158	1463
Approximately 620 feet downstream of Princeton Avenue	0.30	677	904	1038	1112	1375
Third Fork Creek Tributary D						
At the confluence with Third Fork Creek	0.90	1010	1370	1580	1930	2130
Approximately 1,430 feet downstream of Morningside Drive	0.50	940	1280	1480	1850	1980
Third Fork Creek Tributary E						
At the confluence with Third Fork Creek	0.90	1001	1298	1724	1840	2663
Approximately 1,225 feet downstream of University Drive	0.70	1193	1626	1878	1930	2540
Approximately 45 feet downstream of University Drive	0.30	403	550	657	782	1262
Approximately 720 feet downstream of Ward Street	0.20	407	554	641	701	858
Tributary 1 to Little Lick Creek Tributary 1B						
Approximately 150 feet downstream of Nichols Farm Drive	0.34	585	859	980	1090	1280
Tributary to Stirrup Iron Creek Tributary A						
At confluence with Stirrup Iron Creek Tributary A	0.25	*	*	717	*	*
Just upstream of Oleander Drive	0.18	*	*	252	*	*
Approximately 175 feet upstream of Cherry Blossom Drive	0.04	*	*	106	*	*
Unnamed Tributary No. 1 to Stirrup Iron Creek Tributary C						
Approximately 1,074 feet upstream of confluence with Stirrup Iron Creek Tributary C	0.13	*	*	431	*	*
Approximately 1,028 feet upstream of confluence with Stirrup Iron Creek Tributary C	0.10	*	*	307	*	*
Warren Creek						
At confluence with Eno River	4.51	*	*	5857	6161	*
At confluence of Warren Creek Tributary B	2.52	*	*	4257	4462	*
At confluence of Warren Creek Tributary A	1.38	*	*	2623	2791	*
Approximately 0.2 mile downstream of confluence of Warren Creek Tributary 1	1.16	*	*	2744	2847	*
At confluence of Warren Creek Tributary 1	0.46	*	*	1494	992	*
Approximately 100 feet downstream of Kirkwood Drive	0.27	*	*	632	745	*
Warren Creek Tributary 1						
At confluence with Warren Creek	0.39	*	*	807	1520	*

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Warren Creek Tributary A						
At confluence with Warren Creek	0.92	*	*	1863	1884	*
Approximately 250 feet downstream of Wesley Chapel Road	0.60	*	*	1567	1586	*
Warren Creek Tributary B						
At confluence with Warren Creek	1.38	*	*	1980	2276	*

The stillwater elevations have been determined for the 1% [add 10%, 2%, and 0.2% here if that data is available] annual chance flood for the flooding sources studied by detailed methods and are summarized in Table 14, "Summary of Stillwater Elevations."

Table 14 - Summary of Non-Coastal Stillwater Elevations

Flooding Source	FIRM Panel Number(s)	Elevations (feet NAVD)			
		10% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Falls Lake	3720085400K; 3720086300K; 3720086200K; 3720087200J; 3720088200J, 3720087100K; 3720088100J	*	*	261.6	*
	3720086400L; 3720086500L; 3720087400L			265.5	

Table 15, "Gage Information", lists the stream gages located in Durham County, including the drainage area of the flooding source at the gage and the period of record available at the time of the publication of this FIS Report.

Table 15 - Gage Information

Gage Number	Flooding Source	Site Name	Drainage Area (square miles)	Period of Record	
				From	To
02086000	Dial Creek	DIAL CREEK NEAR BAHAMA, N.C.	4.76	1926	1991
02097314	New Hope Creek	NEW HOPE CREEK NEAR BLANDS, NC	75.90	1983	2002
0209741955	Northeast Creek	NORTHEAST CREEK AT SR1100 NR GENLEE, NC	21.10	1983	2002

5.2 Hydraulic Analyses

Analyses of the hydraulic characteristics of flooding from the sources studied were carried out to provide estimates of the flood elevations for the selected recurrence intervals. Locations of selected cross sections used in the hydraulic analyses are shown on the Flood Profiles and/or Water-surface elevation rasters. For stream segments for which BFEs were computed, selected cross-section locations are also shown on the FIRM. Flood Profiles and/or Water-surface elevation rasters were developed showing computed water-surface elevations for floods of the selected recurrence intervals.

Users should be aware that flood elevations shown on the FIRM represent rounded whole-foot elevations and may not exactly reflect the elevations shown on the Flood Profiles and/or Water-surface elevation rasters or in the Floodway Data tables in the FIS Report. For construction and/or floodplain management purposes, users are encouraged to use the flood elevation data presented in the FIS 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 Flood Profiles are thus considered valid only if hydraulic structures remain unobstructed, operate properly, and do not fail. For details on the county's hydraulic analyses, the hydraulic report is available by request.

For the streams studied by detailed methods, water surface elevations of floods of the selected recurrence intervals were computed through use of the Army Corps of Engineers' HEC RAS step backwater computer program . The hydraulic analyses were based on Flood Insurance Study Report: DURHAM COUNTY, NORTH CAROLINA AND INCORPORATED AREAS
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unobstructed flow. The flood elevations shown on the Profiles and/or Water-surface elevation rasters are thus considered valid only if hydraulic structures remain unobstructed, operate properly, and do not fail. The computer models were calibrated using historic high water data collected during field investigations.

The cross section geometries were obtained from a combination of digital elevation data obtained by Light Detection and Ranging (LIDAR) and field surveys. All bridges, dams, and culverts were field surveyed to obtain elevation data and structural geometry. Natural floodplain cross sections were surveyed approximately every 4000 feet along the detail study reaches to obtain the channel geometry between bridges and culverts. Overbank cross section data for the backwater analyses were obtained from recently flown LIDAR data.

Channel roughness factors (Manning's "n") used in the hydraulic computations were made in the field by an engineer where stream access was possible, with orthophotos used to supplement areas that could not be accessed. The channel and overbank "n" values for all of the streams studied by detailed methods are shown in Table 16, "Roughness Coefficients".

Table 16 - Roughness Coefficients

Stream	Channel "n"	Overbank "n"
Basin 18, Stream 13	0.024 to 0.070	0.032 to 0.150
Buffalo Creek (into Little River North Fork)	0.050	0.070 to 0.130
Buffalo Creek (into Little River)	0.025 to 0.045	0.130
Buffalo Creek Tributary 1	0.050	0.110 to 0.150
Buffalo Creek Tributary 2	0.050	0.150
Burdens Creek	0.042 to 0.050	0.100 to 0.200
Burdens Creek Tributary	0.045 to 0.055	0.050 to 0.180
Burdens Creek Tributary 4	0.030 to 0.045	0.080 to 0.200
Cabin Branch	0.045 to 0.070	0.046 to 0.150
Cabin Branch Tributary	0.050 to 0.059	0.095 to 0.195
Camp Creek	0.050	0.150 to 1.000
Camp Creek Tributary 3	0.050	0.150
Camp Creek Tributary 4	0.050	0.100 to 0.150
Chunky Pipe Creek	0.050 to 0.055	0.060 to 0.250
Chunky Pipe Creek Tributary 1	0.050	0.150
Chunky Pipe Creek Tributary 2	0.055	0.150
Crooked Creek	0.037 to 0.050	0.100 to 0.200
Crooked Creek (into Eno River) Tributary 2	0.050	0.130 to 0.150
Crooked Creek (into Eno River) Tributary 2A	0.035 to 0.050	0.110 to 0.150
Crooked Creek Tributary 1	0.045 to 0.050	0.100 to 0.200
Deep Creek	0.050	0.130
Dial Creek	0.045 to 0.450	0.130
Ellerbe Creek	0.030 to 0.130	0.050 to 0.180
Ellerbe Creek Tributary 1	0.050	0.150
Ellerbe Creek Tributary 2	0.050	0.150
Ellerbe Creek Tributary 3	0.050	0.150
Ellerbe Creek Tributary 4	0.050 to 0.150	0.150
Ellerbe Creek Tributary A	0.045 to 0.080	0.050 to 0.150
Ellerbe Creek Tributary B	0.050	0.050 to 0.130
Eno River	0.038 to 0.065	0.040 to 0.200
Eno River Tributary	0.045	0.130
Eno River Tributary 1	0.048 to 0.052	0.060 to 0.200
Eno River Tributary 3	0.040 to 0.054	0.060 to 0.200
Eno River Tributary 6	0.045 to 0.450	0.120 to 0.140
Eno River Tributary 7	0.050	0.150
Eno River Tributary 8	0.050	0.100 to 0.150
Eno River Tributary 9	0.050	0.130 to 0.150
Eno River Tributary A	0.050 to 0.055	0.040 to 0.150
Eno River Tributary Z	0.047 to 0.052	0.100 to 0.200
Flat River	0.035 to 0.055	0.060 to 0.140
Flat River Tributary 1	0.045	0.130
Flat River Tributary 2	0.043	0.120
Flat River Tributary 3	0.045	0.140
Flat River Tributary 4	0.050	0.100 to 0.150
Flat River Tributary 8	0.050	0.150
Goose Creek	0.030 to 0.050	0.080 to 0.200
Goose Creek Tributary A	0.042 to 0.060	0.108 to 0.240

Table 16 - Roughness Coefficients

Stream	Channel "n"	Overbank "n"
Goose Creek Tributary A Divergence	0.030 to 0.045	0.110 to 0.180
Gum Creek	0.040 to 0.062	0.105 to 0.150
Kit Creek Tributary 1 (Basin 29, Stream 11)	0.032 to 0.050	0.032 to 0.090
Knap of Reeds Creek	0.035 to 0.055	0.060 to 0.150
Knap of Reeds Creek Tributary	0.035 to 0.050	0.140 to 0.150
Knap of Reeds Creek Tributary 2	0.050	0.110 to 0.150
Laurel Creek	0.050	0.150
Ledge Creek	0.035 to 0.060	0.035 to 0.150
Lick Creek	0.042 to 0.075	0.035 to 0.150
Lick Creek Tributary 1	0.045 to 0.055	0.100 to 0.150
Lick Creek Tributary 2	0.050	0.150
Little Brier Creek (Basin 18, Stream 15)	0.030 to 0.086	0.012 to 0.150
Little Brier Creek East (Basin 18, Stream 16)	0.030 to 0.070	0.070 to 0.150
Little Brier Creek Tributary 1	0.050	0.150
Little Brier Creek Tributary 2	0.050	0.150
Little Creek	0.040 to 0.050	0.070 to 0.140
Little Lick Creek	0.033 to 0.061	0.035 to 0.220
Little Lick Creek Tributary 1	0.050	0.150 to 1.000
Little Lick Creek Tributary 1A	0.043 to 0.057	0.100 to 0.200
Little Lick Creek Tributary 1B	0.035 to 0.074	0.045 to 0.200
Little Lick Creek Tributary 1D	0.050	0.100 to 0.150
Little Lick Creek Tributary 2	0.045 to 0.048	0.100 to 0.150
Little Lick Creek Tributary 3	0.042	0.130
Little Lick Creek Tributary 3A	0.040 to 0.080	0.060 to 0.150
Little Lick Creek Tributary 4	0.040 to 0.080	0.060 to 0.150
Little River	0.030 to 0.075	0.035 to 0.150
Little River North Fork	0.034 to 0.075	0.035 to 0.155
Little River North Fork Tributary 1	0.035 to 0.055	0.060 to 0.150
Little River South Fork	0.040 to 0.060	0.040 to 0.150
Little River Tributary 1	0.035 to 0.075	0.035 to 0.150
Little River Tributary 2	0.045	0.130
Little River Tributary 3	0.045	0.130
Little River Tributary 4	0.045	0.130
Little River Tributary 4A	0.050	0.100 to 0.150
Little River Tributary 5	0.050 to 0.055	0.100 to 0.150
Little River Tributary 6	0.050	0.110 to 0.150
Little River Tributary 7	0.050	0.150
Martin Branch	0.050	0.150
Mill Branch	0.050	0.140
Morgan Creek	0.037 to 0.061	0.045 to 0.910
Mountain Creek	0.045	0.150
Mountain Creek Tributary 1	0.050	0.100 to 0.150
Mountain Creek Tributary 2	0.050	0.110 to 0.150
Mountain Creek Tributary 2A	0.050	0.130 to 0.150
Mountain Creek Tributary 3	0.035 to 0.050	0.140 to 0.150
Mountain Creek Tributary 4	0.035 to 0.050	0.150
Mountain Creek Tributary 4A	0.050	0.150
Mountain Creek Tributary 5	0.050	0.150
Mud Creek	0.035 to 0.070	0.044 to 0.180
Neuse River	0.035 to 0.060	0.055 to 0.250
New Hope Creek	0.035 to 0.060	0.040 to 0.180
New Hope Creek Tributary 1	0.040 to 0.059	0.050 to 0.180
North Fork Little River Tributary 2	0.045 to 0.075	0.035 to 0.150
Northeast Creek	0.040 to 0.061	0.066 to 0.200
Northeast Creek North Prong	0.036 to 0.050	0.110 to 0.200
Northeast Creek North Prong Tributary	0.045 to 0.050	0.060 to 0.120
Northeast Creek North Prong Tributary A	0.050 to 0.520	0.050 to 0.175
Northeast Creek Tributary 1	0.045 to 0.130	0.045 to 0.130
Northeast Creek Tributary 2	0.040 to 0.045	0.120 to 0.140
Northeast Creek Tributary C	0.030 to 0.058	0.030 to 0.700
Northeast Creek Tributary D	0.045 to 0.070	0.050 to 0.170
Panther Creek	0.035 to 0.064	0.080 to 0.190
Panther Creek Tributary 1	0.035 to 0.050	0.150
Panther Creek Tributary 2	0.050	0.150

Table 16 - Roughness Coefficients

Stream	Channel "n"	Overbank "n"
Rocky Branch	0.050	0.150
Rocky Branch (near Falls Lake)	0.050	0.150
Rocky Branch Tributary 1	0.050	0.150
Rocky Creek	0.042	0.130
Rocky Creek (Into Flat River)	0.042	0.130
Rocky Creek Tributary 1	0.050	0.100 to 0.150
Rocky Creek Tributary 2	0.050	0.100 to 0.150
Sandy Creek	0.033 to 0.060	0.050 to 0.190
Sandy Creek Tributary A	0.045 to 0.060	0.050 to 0.190
Sandy Creek Tributary D	0.040 to 0.059	0.060 to 0.170
Sevenmile Creek	0.030 to 0.050	0.060 to 0.200
Sevenmile Creek Tributary 1	0.050	0.150
South Ellerbe Creek	0.045 to 0.120	0.045 to 0.120
South Ellerbe Creek Tributary	0.040 to 0.050	0.050 to 0.130
Southwest Creek	0.030 to 0.050	0.080 to 0.200
Southwest Creek Tributary 1	0.050	0.150
Stirrup Iron Creek	0.015 to 0.150	0.032 to 0.170
Stirrup Iron Creek Tributary A	0.045 to 0.050	0.045 to 0.130
Stirrup Iron Creek Tributary B	0.024 to 0.062	0.050 to 0.170
Stirrup Iron Creek Tributary B-1	0.050	0.100 to 0.150
Stirrup Iron Creek Tributary C	0.040 to 0.068	0.050 to 0.170
Stirrup Iron Creek Tributary D	0.024 to 0.050	0.130
Syble Creek	0.045 to 0.052	0.035 to 0.160
Sycamore Creek (Basin 18, Stream 6)	0.030 to 0.070	0.035 to 0.150
Third Fork Creek	0.040 to 0.056	0.100 to 0.200
Third Fork Creek Tributary	0.049 to 0.059	0.100 to 0.185
Third Fork Creek Tributary A	0.054 to 0.063	0.090 to 0.170
Third Fork Creek Tributary C	0.045 to 0.058	0.090 to 0.180
Third Fork Creek Tributary D	0.054 to 0.057	0.100 to 0.180
Third Fork Creek Tributary E	0.057 to 0.063	0.090 to 0.185
Tributary 1 to Little Lick Creek Tributary 1B	0.055 to 0.060	0.060 to 0.130
Tributary to Stirrup Iron Creek Tributary A	0.045 to 0.056	0.045 to 0.160
Unnamed Stream	0.035 to 0.062	0.055 to 0.150
Unnamed Tributary No. 1 to Stirrup Iron Creek Tributary C	0.050	0.100 to 0.130
Unnamed Tributary No. 2 to Stirrup Iron Creek Tributary C	0.050	0.070 to 0.130
Warren Creek	0.045 to 0.052	0.110 to 0.200
Warren Creek Tributary 1	0.047	0.110 to 0.200
Warren Creek Tributary A	0.045 to 0.048	0.100 to 0.200
Warren Creek Tributary B	0.038 to 0.045	0.100 to 0.200

For flooding sources studied by limited detailed methods in the county, standard hydrologic and hydraulic study methods were used to determine the flood hazard data required for this report and the FIRM panels. This method entails developing a HEC-RAS hydraulic model, resulting in the calculation of BFEs and the delineation of the 1% annual chance floodplain (designated as Zone AE). Cross sections for the flooding sources studied by limited detailed methods were obtained using digital elevation data obtained with LIDAR technology developed as part of the North Carolina Statewide Floodplain Mapping Program. The hydraulic model is prepared using this digital elevation data, without surveying bathymetric or structural data. Where bridge or culvert data are readily available, such as from the North Carolina Department of Transportation, these data have been reflected in the hydraulic model. If these structural data are not readily available, field measurements of these structures were made to approximate their geometry in the hydraulic models. In addition, this method does not include field surveys that determine specifics on channel and floodplain characteristics. A limited detailed study is a “buildable” product that can be upgraded to a fully detailed study at a later date by verifying stream channel characteristics, bridge and culvert opening geometry, and by analyzing multiple recurrence intervals.

The results of the HEC-RAS computations are tabulated for all cross sections (Table 17, “Limited Detailed Flood Hazard Data”). Flood Profiles have not been developed for streams studied by limited detailed methods. Water-surface elevation rasters were developed for streams studied by limited detailed methods. In addition, floodways for streams studied by limited detailed methods are not delineated on the FIRM. However, the 1% annual chance water-surface elevations, flood discharges, and non-encroachment widths from the limited detailed studies for every modeled cross section are given in Table 17. The non-encroachment widths given at modeled cross

sections can be used by communities to enforce floodplain management ordinances that meet the requirement defined in 44 CFR 60.3(c)(10).

Between cross sections for streams studied by limited detailed methods, 1% annual chance water-surface elevations can be calculated by mathematical interpolation using the distance along the stream centerline. Non-encroachment widths and, therefore, the location of a non-encroachment area boundary between cross sections should be determined based on either 1) mathematical interpolation, or 2) the non-encroachment width at the upstream or downstream cross section, whichever is larger. If the width determined by this second method is wider than the Special Flood Hazard Area (SFHA) or the 1% annual chance floodplain delineated on the FIRM for this location along the stream, the non-encroachment area shall be considered to be coincident with the SFHA. A full detailed study incorporating field survey data in the HEC-RAS hydraulic model may be submitted for a Letter of Map Revision (LOMR) request to map a regulatory floodway along a section of a stream in lieu of applying the non-encroachment widths listed in Table 17.

Table 17 – Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Basin 18, Stream 13				
061	6118.8	1110.0	318.0	185.7 / 98.6
065	6530.9	1110.0	318.0	11.8 / 195.2
072	7211.2	1110.0	318.2	66.2 / 60.7
078	7846.4	1050.0	319.6	81.3 / 17.1
085	8542.0	1050.0	323.2	11.5 / 65.9
090	9035.0	1050.0	326.5	65.9 / 15.0
Buffalo Creek (into Little River North Fork)				
015	1500.0	4650.0	479.1 ¹	92.4 / 235.4
025	2500.0	4650.0	482.3	17.7 / 233.8
030	3000.0	4650.0	485.1	17.7 / 243.6
035	3500.0	4650.0	487.8	29.0 / 212.4
040	4000.0	4650.0	490.6	46.3 / 144.6
045	4500.0	4650.0	493.5	82.9 / 58.7
050	5000.0	4650.0	496.3	148.7 / 80.8
055	5500.0	4650.0	497.7	114.0 / 200.0
061	6055.1	4650.0	499.4	55.0 / 55.0
061	6101.1	4650.0	500.8	55.0 / 55.0
068	6781.8	4650.0	503.3	229.6 / 110.2
075	7500.0	4660.0	506.0	147.9 / 17.1
080	8000.0	4660.0	509.0	131.2 / 20.8
085	8500.0	4660.0	511.2	22.5 / 158.0
090	9000.0	4660.0	512.6	140.3 / 67.0
095	9500.0	4660.0	514.2	17.1 / 107.1
103	10251.6	4660.0	517.6	53.4 / 101.9
108	10805.7	4660.0	518.8	156.6 / 55.6
109	10867.7	4660.0	518.9	156.6 / 55.6
115	11500.0	4660.0	519.8	17.1 / 208.7
120	12000.0	4660.0	521.1	78.9 / 157.5
125	12500.0	4660.0	522.6	129.8 / 55.7
131	13126.7	4660.0	525.0	37.9 / 120.5
132	13164.7	4660.0	525.2	37.9 / 120.5
140	14000.0	1700.0	527.6	11.8 / 210.5
145	14500.0	1700.0	528.1	16.6 / 219.1
150	15000.0	1700.0	529.2	43.7 / 76.6
155	15500.0	1700.0	530.9	83.9 / 95.8
Buffalo Creek (into Little River)				
001	107.0	1810.0	360.4 ¹	267.8 / 333.3
002	243.2	1810.0	360.4 ¹	403.0 / 395.0
003	323.2	1810.0	360.4 ¹	403.0 / 395.0
010	1000.0	1810.0	360.4 ¹	147.2 / 102.7
015	1500.0	1660.0	360.4 ¹	189.4 / 91.6
020	2000.0	1660.0	360.4 ¹	78.7 / 74.7
025	2500.0	1660.0	360.4 ¹	65.6 / 107.1
030	3000.0	1660.0	360.4 ¹	48.9 / 69.7

Table 17 – Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Buffalo Creek (into Little River)				
036	3586.5	1660.0	360.4 ¹	20.0 / 11.5
042	4180.3	1660.0	360.8	26.7 / 18.9
050	5025.4	1660.0	382.3	10.9 / 15.8
052	5178.4	1660.0	395.7	55.1 / 49.9
055	5500.0	1660.0	396.1	58.0 / 45.0
060	6000.0	1660.0	396.4	29.5 / 30.5
066	6561.1	1660.0	401.7	8.0 / 6.2
067	6658.1	1660.0	403.4	16.0 / 7.9
071	7083.4	1660.0	410.1	83.5 / 49.0
075	7517.7	1660.0	417.2	35.0 / 20.0
076	7581.7	1660.0	420.1	100.0 / 70.0
080	8000.0	1660.0	422.8	40.0 / 70.0
083	8328.3	1660.0	429.7	15.0 / 75.0
084	8373.3	1660.0	429.2	11.0 / 65.0
085	8500.0	1660.0	432.2	23.9 / 109.8
Buffalo Creek Tributary 1				
002	156.0	257.0	494.9 ¹	11.0 / 5.0
002	247.0	257.0	497.6	17.3 / 4.1
004	359.0	257.0	501.9	9.4 / 10.5
005	456.0	257.0	505.6	5.0 / 14.7
006	613.0	257.0	510.9	5.3 / 11.2
008	763.0	257.0	514.9	6.9 / 13.7
009	918.0	257.0	519.1	5.0 / 11.1
012	1202.0	257.0	526.7	5.1 / 5.0
014	1450.0	257.0	531.3	22.4 / 3.9
018	1788.0	257.0	538.0	19.0 / 21.7
Buffalo Creek Tributary 2				
004	421.0	3200.0	526.5 ¹	120.0 / 120.0
007	726.0	3200.0	527.6	30.0 / 146.1
009	949.0	3200.0	528.7	60.0 / 170.0
013	1329.0	3200.0	530.0	70.0 / 90.0
015	1526.0	3200.0	530.9	50.0 / 60.0
Burdens Creek				
182	18206.0	1180.0	312.2	79.2 / 73.4
188	18769.0	483.0	312.6	50.0 / 33.5
189	18944.0	483.0	316.6	50.0 / 33.5
194	19398.0	483.0	317.8	51.6 / 22.6
197	19700.0	483.0	320.3	7.8 / 17.2
200	20036.0	340.0	325.7	13.4 / 19.1
202	20165.0	340.0	327.7	13.4 / 19.1
202	20214.0	231.0	328.1	16.7 / 26.2
202	20250.0	231.0	328.1	15.1 / 22.9
203	20336.0	231.0	334.6	32.1 / 26.9
204	20418.0	231.0	334.6	32.0 / 35.0

Table 17 – Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Burdens Creek				
204	20441.0	217.0	334.6	32.1 / 28.1
205	20527.0	217.0	336.4	32.1 / 28.1
206	20635.0	217.0	336.4	29.7 / 13.7
Cabin Branch Tributary				
001	74.7	1050.0	276.6 ¹	116.0 / 97.9
004	447.8	1050.0	276.6 ¹	64.8 / 79.7
005	484.3	1050.0	276.6 ¹	24.5 / 47.5
005	524.3	1050.0	277.0	25.0 / 55.0
007	666.2	1050.0	278.8	49.1 / 69.8
009	907.6	1050.0	279.8	65.4 / 48.3
013	1257.0	524.0	281.5	68.7 / 12.0
017	1691.8	524.0	286.5	11.8 / 40.6
022	2185.2	524.0	290.0	18.3 / 72.8
025	2544.3	302.0	294.6	44.1 / 12.5
026	2615.0	302.0	296.5	38.0 / 7.0
027	2685.0	302.0	298.9	38.0 / 7.0
028	2750.4	302.0	299.0	194.3 / 12.0
032	3171.1	302.0	299.2	12.0 / 19.5
034	3435.6	302.0	304.3	12.4 / 34.4
Camp Creek				
061	6134.0	2228.0	429.1	45.9 / 19.0
068	6814.3	2228.0	434.0	81.5 / 46.1
069	6864.3	2228.0	435.5	44.9 / 50.1
077	7687.8	1953.0	437.3	174.1 / 83.9
089	8865.6	1953.0	441.1	16.6 / 103.6
097	9721.6	1953.0	443.2	16.6 / 22.7
113	11331.4	1731.0	451.3	160.0 / 25.0
124	12361.7	1731.0	453.6	135.1 / 46.9
133	13319.0	1731.0	456.0	15.4 / 208.1
146	14612.6	1731.0	459.5	15.4 / 152.5
158	15840.8	1731.0	464.8	110.1 / 39.9
159	15890.8	1731.0	467.4	200.1 / 49.9
170	16954.2	1731.0	468.1	150.0 / 100.0
178	17825.7	1299.0	470.1	85.1 / 110.0
187	18704.2	1299.0	471.1	295.1 / 13.4
193	19264.0	1299.0	472.4	168.1 / 26.5
199	19895.7	1299.0	475.2	13.4 / 148.9
211	21129.0	1299.0	478.5	13.4 / 266.5
217	21706.5	1299.0	479.9	18.0 / 18.0
218	21751.5	1299.0	481.1	18.0 / 18.0
222	22171.3	1299.0	482.6	133.3 / 23.0
222	22231.3	1049.0	483.8	133.3 / 23.0
228	22771.1	1049.0	483.9	16.8 / 16.8
229	22862.1	1049.0	487.3	30.1 / 79.9

Table 17 – Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Camp Creek				
240	24017.7	1049.0	489.5	27.4 / 92.5
253	25254.3	1049.0	499.5	35.1 / 14.9
259	25920.8	1049.0	505.4	15.1 / 49.9
Camp Creek Tributary 3				
010	962.0	727.0	469.0 ¹	109.4 / 11.4
019	1877.1	727.0	472.3	91.4 / 53.6
029	2866.6	727.0	477.1	56.7 / 53.4
039	3877.0	727.0	490.2	112.4 / 129.2
039	3917.0	727.0	491.2	112.4 / 129.2
050	5044.2	727.0	493.6	147.7 / 16.3
051	5101.2	727.0	494.6	147.7 / 16.3
056	5640.5	727.0	495.8	62.3 / 48.3
065	6460.8	727.0	501.9	30.4 / 58.4
Camp Creek Tributary 4				
002	150.0	569.0	493.5 ¹	95.2 / 59.0
006	572.0	569.0	494.5	42.6 / 60.8
007	735.0	546.0	495.1	49.4 / 10.0
009	890.0	546.0	497.6	49.4 / 10.0
010	1008.0	546.0	497.8	19.6 / 161.0
014	1396.0	546.0	500.0	54.6 / 20.0
017	1689.0	546.0	501.6	72.9 / 45.0
019	1893.0	461.0	502.8	60.0 / 33.5
Chunky Pipe Creek Tributary 1				
053	5254.2	2732.0	284.2	39.5 / 40.5
059	5877.4	2732.0	287.9	122.4 / 28.8
063	6256.2	1584.0	289.5	142.3 / 8.8
064	6377.8	1584.0	290.1	100.1 / 14.5
065	6457.8	1584.0	294.8	100.1 / 14.5
070	6984.0	1584.0	295.2	179.0 / 19.0
075	7530.0	1584.0	297.3	20.8 / 87.3
076	7575.0	1584.0	307.6	20.8 / 87.3
086	8623.1	1584.0	307.7	84.0 / 84.0
Chunky Pipe Creek Tributary 2				
003	308.6	612.0	288.8 ¹	11.0 / 11.0
006	588.7	612.0	289.9	11.0 / 11.0
008	813.9	612.0	295.6	6.3 / 7.0
011	1110.4	612.0	302.2	7.9 / 11.0
013	1306.4	612.0	307.1	8.1 / 8.0
017	1662.8	612.0	323.9	60.0 / 50.0
020	1961.7	612.0	323.9	96.5 / 100.0
024	2423.8	612.0	323.9	50.8 / 55.0
028	2836.0	612.0	325.1	10.0 / 12.0
032	3231.3	612.0	332.0	18.7 / 21.0
036	3645.0	612.0	336.0	9.3 / 8.0

Table 17 – Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Crooked Creek (into Eno River) Tributary 2				
001	115.0	1440.0	392.1 ¹	28.0 / 15.0
002	169.0	1440.0	392.8	50.0 / 35.0
004	431.0	1440.0	396.0	36.9 / 22.5
008	757.0	1440.0	401.1	45.9 / 19.2
011	1104.0	1440.0	404.6	60.0 / 35.0
013	1349.0	1440.0	406.9	22.0 / 45.0
016	1568.0	1200.0	409.5	115.0 / 75.0
017	1692.0	1200.0	410.5	65.0 / 30.0
018	1829.0	1200.0	411.9	75.0 / 50.0
019	1908.0	1050.0	411.9	30.0 / 60.0
020	1960.0	1050.0	412.8	30.0 / 60.0
020	2048.0	1050.0	413.1	19.4 / 111.0
021	2099.0	1050.0	413.2	25.0 / 25.0
022	2154.0	1050.0	413.5	30.0 / 30.0
023	2252.0	1050.0	415.3	65.0 / 52.0
024	2376.0	1050.0	416.9	59.0 / 5.0
025	2548.0	632.0	418.2	50.0 / 48.0
027	2661.0	632.0	419.0	20.0 / 50.0
028	2766.0	632.0	422.2	20.0 / 50.0
030	3001.0	632.0	423.5	45.0 / 5.0
034	3372.0	632.0	427.4	34.1 / 29.4
037	3674.0	280.0	431.2	7.7 / 21.3
039	3883.0	280.0	434.5	14.9 / 21.6
041	4062.0	280.0	436.9	10.5 / 20.7
042	4196.0	280.0	438.8	32.1 / 10.9
043	4341.0	280.0	441.1	33.6 / 15.0
045	4506.0	280.0	443.6	28.9 / 4.5
047	4710.0	280.0	446.8	42.8 / 10.8
050	4993.0	280.0	450.3	30.0 / 24.8
053	5281.0	280.0	455.0	5.8 / 22.6
054	5442.0	280.0	458.1	11.2 / 30.7
056	5613.0	280.0	461.9	29.2 / 9.4
058	5823.0	280.0	466.4	27.8 / 5.0
061	6090.0	101.0	471.2	7.0 / 11.6
062	6170.0	101.0	474.0	7.0 / 11.6
065	6492.0	101.0	482.9	8.0 / 4.0
Crooked Creek (into Eno River) Tributary 2A				
000	39.0	371.0	428.1 ¹	71.0 / 5.0
001	137.0	371.0	428.1	5.0 / 22.0
003	286.0	371.0	439.6	131.8 / 134.2
004	391.0	371.0	439.6	120.0 / 120.1
005	521.0	371.0	439.8	80.5 / 78.5
008	786.0	371.0	442.5	5.0 / 28.0
011	1078.0	371.0	448.6	24.0 / 5.0

Table 17 – Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Crooked Creek (into Eno River) Tributary 2A				
013	1281.0	371.0	452.7	9.0 / 35.0
013	1342.0	371.0	453.8	10.0 / 10.0
014	1391.0	371.0	454.9	10.0 / 37.0
016	1568.0	371.0	459.1	16.0 / 6.0
018	1757.0	371.0	463.1	9.0 / 24.0
019	1914.0	371.0	466.3	37.0 / 4.0
Deep Creek				
005	500.0	7101.0	419.5'	35.6 / 563.6
010	1000.0	7101.0	419.5'	219.2 / 296.9
015	1500.0	7101.0	419.5'	265.9 / 34.4
020	2000.0	7101.0	419.5'	297.2 / 198.6
025	2500.0	6518.0	419.5'	171.4 / 185.9
030	3000.0	6518.0	419.5'	37.3 / 244.1
Dial Creek				
012	1230.2	1950.0	346.8'	88.6 / 12.2
016	1640.4	1940.0	346.8'	54.8 / 23.7
025	2515.7	1940.0	355.0	18.0 / 24.0
029	2924.5	1940.0	365.5	21.0 / 41.0
034	3441.0	1940.0	374.0	14.2 / 48.7
040	4027.9	1940.0	382.5	27.0 / 11.9
045	4500.0	1940.0	386.6	77.6 / 17.0
050	5000.0	1940.0	388.9	11.9 / 101.5
055	5500.0	1940.0	391.7	11.8 / 118.1
060	6019.1	1940.0	394.2	64.7 / 136.2
066	6602.9	1940.0	395.4	69.6 / 11.9
070	7000.0	1940.0	397.6	109.5 / 11.9
075	7453.1	1940.0	399.2	18.6 / 99.3
079	7881.2	1940.0	400.4	59.0 / 45.5
085	8500.0	1940.0	401.9	87.5 / 154.7
089	8942.5	1940.0	402.6	126.5 / 54.1
093	9322.8	1940.0	403.5	39.8 / 121.5
102	10175.4	1940.0	405.2	23.8 / 206.6
105	10500.0	1940.0	406.0	11.8 / 219.2
111	11086.6	1700.0	407.7	183.5 / 81.9
116	11564.2	1700.0	409.0	154.8 / 109.1
120	11972.4	1700.0	410.1	87.4 / 83.0
124	12401.3	1700.0	412.0	10.6 / 149.7
130	13000.0	1700.0	414.0	213.2 / 10.5
136	13557.3	1700.0	415.7	199.8 / 10.5
141	14075.4	1700.0	418.6	11.8 / 27.4
145	14485.8	1700.0	423.4	35.1 / 56.5
146	14613.0	1700.0	425.4	20.1 / 20.1
147	14693.0	1700.0	428.4	20.1 / 20.1
149	14921.4	1460.0	429.3	9.2 / 232.7

Table 17 – Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Dial Creek				
156	15555.0	1460.0	430.1	29.8 / 172.4
160	16047.8	1460.0	431.0	78.1 / 23.5
165	16500.0	1460.0	432.6	25.6 / 133.3
171	17077.6	1460.0	434.7	58.0 / 101.5
176	17565.5	1460.0	437.1	88.3 / 59.0
180	18021.8	1460.0	438.2	146.6 / 9.2
185	18544.1	1148.0	440.3	84.0 / 39.7
191	19061.7	1148.0	442.2	76.0 / 77.9
195	19500.0	1148.0	443.3	14.9 / 122.8
200	20000.0	1148.0	445.1	61.8 / 41.2
206	20605.5	1148.0	447.8	13.3 / 128.7
211	21071.5	1148.0	449.7	18.7 / 130.2
214	21429.3	1148.0	451.5	14.2 / 100.0
218	21805.0	1148.0	453.9	133.2 / 21.0
223	22317.9	1148.0	457.1	47.9 / 45.7
229	22863.1	1148.0	460.0	57.6 / 57.1
234	23424.4	1148.0	462.4	25.4 / 69.0
240	24000.0	1148.0	465.4	30.7 / 25.9
245	24504.8	1148.0	469.0	30.0 / 15.8
250	24950.5	1148.0	472.6	66.4 / 32.4
255	25545.2	1148.0	476.7	40.9 / 7.8
261	26067.3	747.0	480.5	68.7 / 9.2
267	26728.0	747.0	482.7	9.0 / 17.8
270	27000.0	747.0	485.3	9.0 / 9.0
275	27500.0	747.0	490.5	41.0 / 9.0
277	27726.0	747.0	492.7	43.3 / 22.0
278	27807.0	747.0	498.8	145.0 / 22.0
281	28065.5	747.0	498.8	125.2 / 24.3
285	28525.7	747.0	499.8	120.0 / 10.0
290	29000.0	747.0	504.4	49.6 / 9.0
296	29624.6	747.0	509.7	9.0 / 9.0
Ellerbe Creek				
072	7215.7	14200.0	265.5 ¹	55.0 / 414.0
077	7663.6	14200.0	265.5 ¹	519.0 / 118.0
084	8389.3	14200.0	265.5 ¹	45.0 / 107.0
099	9856.4	14200.0	265.5 ¹	60.0 / 761.0
103	10339.0	14200.0	265.5 ¹	87.0 / 530.0
125	12509.2	12200.0	265.5 ¹	96.0 / 485.0
131	13127.0	12200.0	265.5 ¹	319.0 / 394.0
140	13995.9	12200.0	265.5 ¹	120.0 / 917.0
142	14184.3	12200.0	265.5 ¹	123.0 / 799.0
Ellerbe Creek Tributary 1				
010	1025.0	1640.0	265.5 ¹	245.1 / 86.0
020	2026.6	1640.0	270.7	11.8 / 261.1

Table 17 – Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Ellerbe Creek Tributary 1				
025	2493.3	1640.0	274.1	24.4 / 24.4
026	2573.3	1640.0	276.6	27.8 / 17.9
032	3229.5	1640.0	278.5	101.0 / 22.0
039	3865.9	1640.0	280.4	200.0 / 25.0
048	4813.9	1090.0	284.0	103.1 / 52.2
052	5226.6	1090.0	286.1	99.4 / 57.9
057	5747.7	1090.0	290.5	26.6 / 97.0
065	6500.0	1090.0	294.8	11.1 / 135.6
073	7282.4	861.0	298.2	70.5 / 50.0
078	7796.7	861.0	300.9	27.4 / 53.2
083	8347.8	861.0	305.7	10.6 / 67.8
088	8798.0	861.0	309.8	28.3 / 30.4
094	9411.1	861.0	315.3	15.0 / 45.0
099	9900.9	861.0	321.6	19.9 / 45.1
107	10662.6	861.0	333.7	15.4 / 21.6
107	10722.6	861.0	334.4	16.1 / 22.1
110	11003.2	861.0	343.5	14.9 / 40.1
111	11053.2	861.0	345.2	39.9 / 44.1
114	11362.5	861.0	353.9	2.1 / 13.9
Ellerbe Creek Tributary 2				
003	254.9	659.0	281.9	23.9 / 12.0
006	646.2	659.0	287.5	11.3 / 68.1
009	933.4	659.0	289.8	17.8 / 74.2
014	1391.0	659.0	295.0	25.3 / 42.7
018	1832.6	659.0	299.8	33.3 / 57.0
022	2162.7	659.0	303.3	11.8 / 62.4
026	2568.6	659.0	308.3	38.4 / 60.4
029	2883.4	659.0	311.6	12.8 / 33.6
Ellerbe Creek Tributary 3				
006	627.6	261.0	297.1	4.9 / 12.1
011	1095.2	261.0	309.2	4.1 / 29.9
014	1443.6	261.0	320.2	3.6 / 9.1
Ellerbe Creek Tributary 4				
008	849.0	858.0	265.5 ¹	60.0 / 65.0
012	1157.0	858.0	265.5 ¹	78.4 / 45.0
016	1590.0	858.0	267.0	23.0 / 55.0
019	1940.0	858.0	270.9	20.0 / 85.2
025	2488.0	858.0	276.5	90.0 / 20.0
030	3009.0	858.0	281.7	68.0 / 30.0
036	3570.0	702.0	285.9	25.9 / 30.0
041	4062.0	702.0	289.5	25.0 / 26.0
044	4383.0	702.0	294.1	28.0 / 10.0
048	4827.0	702.0	301.2	25.0 / 28.0

Table 17 – Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Ellerbe Creek Tributary 4				
052	5181.0	702.0	306.8	35.0 / 20.0
056	5563.0	702.0	313.8	28.0 / 28.0
059	5901.0	702.0	322.1	7.0 / 50.0
062	6220.0	702.0	330.8	26.5 / 26.5
Eno River				
035	3500.0	22000.0	265.5 ¹	820.2 / 989.6
073	7304.7	22200.0	265.5 ¹	1111.7 / 452.7
087	8713.8	22200.0	265.5 ¹	405.7 / 1405.0
088	8764.8	22200.0	267.5	450.0 / 1492.0
100	10000.0	22700.0	267.7	1065.7 / 987.5
105	10500.0	22700.0	267.8	938.1 / 892.2
115	11500.0	22700.0	267.9	583.3 / 1822.2
120	12000.0	22700.0	268.0	476.6 / 1318.6
132	13230.5	22700.0	268.3	895.7 / 2019.0
145	14500.0	22700.0	268.5	681.0 / 2735.3
188	18786.9	23100.0	269.0	3851.2 / 478.2
206	20570.0	23100.0	269.2	3264.6 / 82.8
246	24637.4	17933.0	269.8	1145.6 / 200.0
268	26828.6	17933.0	272.6	407.7 / 350.0
276	27649.8	17933.0	274.1	250.3 / 54.8
282	28151.6	17933.0	276.3	250.0 / 100.0
282	28189.6	17933.0	276.4	190.0 / 140.0
290	29027.0	17933.0	276.9	120.8 / 198.2
Eno River Tributary				
007	720.9	1560.0	276.8 ¹	29.5 / 18.3
014	1438.7	1560.0	276.8 ¹	11.5 / 84.1
018	1752.4	1560.0	276.8 ¹	95.6 / 13.0
023	2277.3	1560.0	276.8 ¹	99.9 / 130.1
023	2344.3	1550.0	280.9	99.9 / 175.1
029	2894.5	1550.0	281.1	280.9 / 23.2
034	3394.5	997.0	281.3	149.3 / 64.6
039	3894.5	997.0	281.6	14.0 / 40.0
044	4394.5	997.0	284.5	14.0 / 92.0
049	4894.5	997.0	287.1	14.0 / 14.0
054	5394.5	997.0	291.8	27.9 / 100.8
059	5899.8	997.0	295.7	14.0 / 74.3
064	6385.3	997.0	299.6	86.9 / 66.6
069	6852.6	997.0	303.0	33.5 / 18.8
074	7352.6	997.0	308.4	14.0 / 42.0
079	7852.6	997.0	313.3	42.0 / 18.0
084	8352.6	997.0	323.1	14.1 / 22.8
Eno River Tributary 6				
002	152.2	630.0	281.1 ¹	10.0 / 6.0

Table 17 – Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Eno River Tributary 6				
004	440.0	630.0	282.2	8.6 / 11.4
006	560.0	630.0	291.4	24.9 / 10.1
015	1500.0	630.0	295.8	38.0 / 13.0
020	2000.0	219.0	297.6	150.0 / 10.0
025	2500.0	219.0	300.5	10.0 / 10.0
034	3439.4	219.0	313.9	15.0 / 5.0
040	4000.0	219.0	322.5	4.0 / 11.7
Eno River Tributary 7				
003	319.0	187.0	281.1 ¹	25.0 / 5.0
004	375.0	187.0	281.1 ¹	22.0 / 10.0
005	474.0	187.0	281.1 ¹	20.1 / 9.9
006	606.0	187.0	284.9	13.1 / 12.9
008	753.0	187.0	286.1	5.0 / 19.0
010	983.0	187.0	289.7	21.0 / 23.0
012	1172.0	187.0	292.9	8.0 / 3.0
014	1374.0	187.0	296.7	10.0 / 9.0
Eno River Tributary 8				
000	36.0	343.0	285.4 ¹	18.0 / 8.0
002	198.0	343.0	286.4	18.0 / 27.0
007	667.0	343.0	290.1	28.0 / 13.0
009	859.0	343.0	292.0	14.0 / 10.0
012	1248.0	343.0	295.9	8.0 / 10.0
015	1510.0	343.0	299.1	38.0 / 38.0
017	1706.0	343.0	300.4	15.0 / 15.0
019	1865.0	343.0	302.6	16.0 / 30.0
021	2073.0	343.0	305.3	15.0 / 11.0
Eno River Tributary 9				
003	304.0	1170.0	327.4 ¹	17.0 / 25.0
006	595.0	1170.0	331.6	10.0 / 12.0
008	830.0	1170.0	338.7	50.0 / 26.0
012	1162.0	1170.0	348.3	13.0 / 17.0
014	1425.0	1170.0	357.7	22.0 / 18.0
016	1586.0	1170.0	363.4	12.0 / 10.0
018	1815.0	1170.0	373.3	26.0 / 15.0
021	2063.0	1170.0	381.6	10.0 / 17.0
023	2273.0	1170.0	387.7	12.0 / 30.0
026	2595.0	1170.0	399.1	12.0 / 16.0
028	2833.0	1170.0	406.9	28.0 / 30.0
030	3000.0	1170.0	411.4	22.0 / 13.0
031	3119.0	1170.0	416.0	20.0 / 25.0
033	3304.0	1170.0	423.7	13.0 / 25.0
035	3514.0	566.0	425.9	30.0 / 23.0
036	3606.0	566.0	428.2	20.0 / 30.0
039	3946.0	566.0	435.3	10.0 / 14.0

Table 17 – Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Flat River				
012	1165.7	18800.0	265.5'	1591.6 / 534.6
029	2911.5	18800.0	265.5'	694.3 / 441.7
047	4663.0	18800.0	265.5'	1166.6 / 1729.8
055	5501.4	18700.0	265.5'	279.4 / 1792.0
079	7948.2	18700.0	265.5'	1269.3 / 734.2
090	9000.0	18700.0	265.5'	1179.6 / 193.1
095	9500.0	18700.0	265.5'	1236.8 / 52.0
105	10500.0	18700.0	265.5'	638.3 / 1250.0
115	11500.0	18700.0	265.5'	268.1 / 434.5
130	13000.0	18700.0	265.5'	662.8 / 850.2
140	14000.0	18700.0	265.5'	522.6 / 2793.0
150	15000.0	18700.0	265.5'	556.7 / 1566.6
160	16000.0	18500.0	265.5'	106.0 / 1298.9
170	17000.0	18500.0	265.5'	695.7 / 1148.8
180	18000.0	18500.0	265.5	167.2 / 3544.9
190	19000.0	18500.0	265.6	49.8 / 1417.4
201	20056.6	18500.0	266.5	584.9 / 898.1
215	21500.0	18500.0	267.1	1168.1 / 785.4
225	22500.0	18500.0	267.6	680.4 / 894.1
230	22966.3	18500.0	267.9	140.3 / 138.5
230	23021.3	18400.0	268.4	140.3 / 138.5
231	23115.1	18400.0	269.0	146.7 / 136.7
232	23151.1	18400.0	269.7	146.7 / 136.7
241	24085.7	18400.0	269.4	530.1 / 710.0
250	25000.0	18400.0	273.6	79.9 / 75.1
255	25500.0	18400.0	274.8	74.6 / 87.5
260	26000.0	18400.0	275.6	79.5 / 90.8
265	26500.0	18300.0	276.2	83.2 / 82.6
270	27000.0	18300.0	276.6	59.6 / 105.8
275	27500.0	18300.0	277.1	88.1 / 87.3
280	28000.0	18300.0	277.5	62.2 / 100.3
285	28500.0	18300.0	277.9	70.0 / 78.3
290	29000.0	18300.0	278.0	85.3 / 62.3
295	29500.0	18300.0	278.1	83.9 / 49.8
300	30000.0	18300.0	278.2	159.2 / 50.9
304	30373.9	18300.0	346.6	400.0 / 285.1
315	31500.0	18300.0	346.6	450.8 / 453.2
325	32500.0	18300.0	346.6	444.0 / 444.2
340	34000.0	25800.0	346.6	685.0 / 685.0
350	35000.0	25800.0	346.6	659.0 / 659.0
360	36000.0	25800.0	346.6	434.0 / 434.0
375	37500.0	25800.0	346.6	568.5 / 570.0
385	38500.0	25300.0	346.6	192.9 / 192.8

Table 17 – Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Flat River				
395	39500.0	25300.0	346.6	167.8 / 167.9
400	40000.0	25300.0	346.7	433.6 / 433.5
405	40500.0	25300.0	346.7	454.5 / 454.6
410	41000.0	25300.0	346.7	545.0 / 545.0
414	41384.8	25300.0	346.6	249.3 / 249.3
420	42000.0	25300.0	346.7	352.9 / 352.8
425	42500.0	25300.0	346.7	440.4 / 440.4
430	43000.0	25300.0	346.7	367.8 / 367.9
435	43500.0	25100.0	346.6	215.0 / 215.0
440	44000.0	25100.0	346.6	179.2 / 179.2
445	44500.0	25100.0	346.7	428.0 / 428.0
450	45000.0	25100.0	346.7	463.4 / 458.0
460	46000.0	25100.0	346.7	480.8 / 480.8
465	46500.0	25100.0	346.7	487.3 / 487.3
471	47141.8	24500.0	346.7	292.6 / 292.6
476	47618.1	24500.0	346.7	227.3 / 224.1
483	48263.2	24500.0	346.7	286.3 / 266.9
483	48313.2	24500.0	347.0	286.3 / 266.8
490	49000.0	24400.0	347.0	166.7 / 166.7
495	49500.0	24400.0	347.2	171.7 / 171.7
500	50000.0	24400.0	347.4	191.2 / 189.8
505	50500.0	24400.0	344.9	43.0 / 215.0
510	51000.0	24400.0	349.7	89.1 / 268.2
515	51500.0	24400.0	351.3	141.7 / 102.2
520	52000.0	24400.0	353.3	254.2 / 66.2
525	52500.0	24400.0	354.1	242.7 / 76.0
530	53000.0	24400.0	355.0	150.2 / 90.9
535	53500.0	24400.0	356.5	104.9 / 70.1
540	54000.0	24400.0	357.6	126.5 / 48.8
545	54500.0	24400.0	358.8	91.5 / 36.8
550	55000.0	24400.0	361.8	60.7 / 89.5
555	55500.0	24300.0	364.1	108.4 / 100.4
560	56000.0	24300.0	365.0	82.1 / 44.0
565	56500.0	24300.0	368.3	284.5 / 82.4
570	57000.0	24300.0	368.7	59.7 / 206.6
575	57500.0	24300.0	368.3	57.1 / 105.0
580	58000.0	24300.0	372.5	51.3 / 59.5
585	58500.0	24300.0	376.2	69.1 / 72.2
590	59000.0	24300.0	377.4	82.6 / 34.8
595	59500.0	24300.0	379.5	60.6 / 77.5
600	60000.0	24300.0	380.5	57.2 / 35.7
605	60500.0	24300.0	384.6	134.1 / 56.8
615	61500.0	24300.0	386.5	65.6 / 98.5
620	62000.0	24300.0	386.9	40.9 / 97.9

Table 17 – Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Flat River				
625	62500.0	24300.0	388.2	30.6 / 75.8
632	63173.2	23900.0	392.2	72.5 / 160.0
636	63586.9	23900.0	393.8	129.3 / 71.6
640	64000.0	23900.0	395.3	125.3 / 85.7
644	64377.9	23900.0	396.4	92.1 / 78.9
650	65000.0	23800.0	398.7	209.1 / 105.7
655	65500.0	23800.0	399.5	123.1 / 142.4
662	66158.0	23800.0	400.5	176.7 / 89.6
666	66600.0	23800.0	401.6	101.2 / 119.3
666	66635.0	23800.0	401.8	100.9 / 119.0
675	67500.0	23800.0	402.4	61.2 / 174.6
680	68000.0	23800.0	403.4	64.2 / 184.1
685	68500.0	23800.0	404.6	126.5 / 93.4
690	69000.0	23800.0	405.6	187.6 / 88.4
695	69500.0	23800.0	406.6	191.7 / 116.9
700	70000.0	23600.0	407.1	182.7 / 89.1
705	70500.0	23600.0	407.6	96.4 / 172.8
710	71000.0	23600.0	408.4	65.3 / 227.5
715	71500.0	23600.0	409.1	114.6 / 272.4
720	72000.0	23600.0	409.5	110.2 / 69.2
725	72500.0	23400.0	410.6	216.8 / 78.3
730	73000.0	23400.0	411.2	103.0 / 152.6
735	73500.0	23400.0	411.9	135.2 / 107.1
740	74000.0	23400.0	412.7	84.4 / 212.5
745	74500.0	23400.0	413.2	108.2 / 176.9
750	75000.0	22900.0	413.8	135.7 / 100.0
755	75500.0	22900.0	414.4	114.2 / 127.5
760	76000.0	22900.0	414.9	176.3 / 95.2
765	76500.0	22900.0	415.4	102.1 / 80.8
770	77000.0	22900.0	416.4	89.0 / 118.8
774	77354.7	22900.0	416.9	144.6 / 168.0
774	77404.7	22900.0	417.1	144.6 / 168.0
782	78152.1	22900.0	417.2	78.3 / 144.3
789	78850.5	22900.0	418.4	202.9 / 112.0
795	79500.0	22900.0	418.9	314.3 / 105.3
800	80000.0	22900.0	419.3	176.1 / 290.7
807	80739.5	15900.0	419.8	240.2 / 201.0
820	82000.0	15900.0	420.6	134.9 / 88.6
825	82500.0	15900.0	421.1	73.6 / 161.3
830	83000.0	15900.0	421.6	70.2 / 188.8
835	83500.0	15900.0	422.3	78.6 / 93.4
840	84014.8	15900.0	422.9	83.0 / 80.0
841	84054.8	15900.0	423.2	83.0 / 80.0
850	85000.0	15900.0	423.4	41.5 / 222.2

Table 17 – Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Flat River				
855	85500.0	15900.0	423.6	53.1 / 128.8
860	86000.0	15900.0	424.2	146.3 / 86.0
865	86500.0	15700.0	424.6	132.1 / 72.9
870	87000.0	15700.0	425.0	173.4 / 42.8
876	87563.0	15700.0	427.1	75.1 / 74.9
880	88000.0	15700.0	428.2	75.0 / 95.0
885	88500.0	15700.0	430.8	114.9 / 100.2
890	89000.0	15700.0	430.9	119.9 / 40.1
895	89500.0	15700.0	434.7	94.4 / 80.6
Flat River Tributary 1				
048	4786.1	908.0	265.4 ¹	364.4 / 6.9
055	5500.0	908.0	269.8	66.2 / 6.9
061	6055.6	908.0	273.4	177.5 / 6.9
070	7040.1	908.0	277.3	6.9 / 296.3
076	7583.4	908.0	281.4	6.9 / 85.4
083	8286.2	908.0	290.2	6.9 / 136.3
086	8613.5	908.0	293.4	6.9 / 132.2
091	9081.2	908.0	298.0	53.8 / 27.5
096	9573.6	908.0	302.5	11.0 / 65.0
101	10062.5	908.0	310.7	18.9 / 49.1
105	10500.0	908.0	319.8	7.9 / 9.1
Flat River Tributary 2				
010	1000.0	1083.0	267.6 ²	7.6 / 135.6
014	1401.0	1083.0	267.8 ²	12.5 / 139.7
015	1501.0	1083.0	267.8 ²	12.5 / 139.7
022	2163.7	1083.0	268.6 ²	78.6 / 208.7
026	2572.3	1083.0	269.7 ¹	15.3 / 66.8
026	2633.3	1083.0	270.9	15.3 / 66.8
028	2760.1	1083.0	271.4	54.8 / 82.9
034	3444.3	808.0	274.5	28.6 / 6.6
040	3977.8	808.0	279.9	28.4 / 26.1
045	4525.4	808.0	283.4	6.6 / 65.5
049	4942.7	808.0	288.3	65.8 / 6.6
054	5355.5	808.0	294.5	30.3 / 34.3
055	5544.7	808.0	296.7	32.0 / 29.0
056	5604.7	808.0	300.0	32.0 / 29.0
060	6000.0	808.0	302.8	11.0 / 16.0
064	6363.6	808.0	311.7	29.9 / 13.4
069	6850.1	808.0	325.6	16.9 / 9.8
074	7373.9	808.0	348.5	6.6 / 21.1
079	7948.4	808.0	356.4	6.6 / 84.6
085	8500.0	808.0	363.5	6.6 / 18.6
089	8932.1	808.0	369.8	6.6 / 67.7
094	9365.0	808.0	372.5	50.3 / 30.2

Table 17 – Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Flat River Tributary 2				
099	9858.4	808.0	375.5	45.4 / 18.4
104	10383.6	808.0	380.4	29.5 / 7.4
109	10909.6	808.0	388.3	28.9 / 12.0
113	11319.0	808.0	392.6	50.9 / 30.5
118	11839.5	808.0	400.0	6.6 / 26.0
Flat River Tributary 3				
032	3173.6	1246.0	346.6 ¹	66.0 / 19.4
036	3647.4	1246.0	346.6 ¹	15.4 / 12.6
041	4055.6	1246.0	349.9	18.9 / 40.1
044	4432.6	1246.0	354.9	9.0 / 9.0
048	4837.0	1246.0	364.4	22.2 / 8.3
056	5620.8	1246.0	373.7	21.5 / 57.0
061	6064.7	1246.0	378.1	15.0 / 10.0
065	6458.6	1157.0	384.2	32.0 / 60.0
069	6852.3	1157.0	386.2	14.0 / 27.6
069	6923.3	1157.0	388.9	14.0 / 27.6
071	7130.0	1157.0	389.1	20.5 / 49.3
075	7500.0	1157.0	390.1	62.6 / 53.9
078	7838.4	1157.0	391.2	7.9 / 96.5
085	8500.0	1157.0	395.5	7.9 / 27.8
091	9072.1	1157.0	400.1	59.9 / 39.4
095	9500.0	1157.0	403.7	7.8 / 48.2
100	10022.2	1157.0	408.9	10.4 / 45.7
104	10392.9	1157.0	410.9	57.3 / 36.3
111	11090.3	1157.0	413.6	12.1 / 22.6
113	11318.2	1157.0	416.1	24.1 / 16.2
114	11428.1	1157.0	416.6	14.0 / 14.0
115	11515.1	1157.0	420.8	14.0 / 14.0
118	11801.9	1157.0	421.1	8.8 / 179.1
123	12299.6	1157.0	421.5	89.7 / 42.8
123	12349.6	1157.0	429.8	89.7 / 42.8
126	12632.9	1157.0	429.9	96.3 / 101.0
131	13088.5	1157.0	431.0	102.1 / 113.7
136	13575.1	1157.0	431.8	112.8 / 88.6
141	14064.2	1157.0	432.4	127.9 / 81.4
146	14579.1	1157.0	433.4	57.3 / 42.5
152	15156.1	1157.0	434.6	91.7 / 111.3
156	15584.5	1157.0	435.4	32.7 / 90.1
161	16134.3	1157.0	437.3	131.8 / 7.9
166	16642.3	1157.0	439.0	173.4 / 7.9
171	17142.0	1157.0	440.9	52.5 / 82.2
173	17329.9	1157.0	441.4	42.3 / 97.3
174	17403.9	1157.0	441.4	42.3 / 97.3
176	17607.1	762.0	441.9	117.9 / 14.2

Table 17 – Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Flat River Tributary 3				
181	18098.1	762.0	443.0	60.4 / 15.3
187	18674.1	762.0	444.7	25.0 / 30.3
191	19113.9	762.0	446.1	18.6 / 22.1
196	19570.6	762.0	448.3	9.0 / 9.0
Flat River Tributary 4				
003	263.8	784.0	347.0 ¹	151.0 / 40.1
009	943.2	784.0	347.0 ¹	22.0 / 22.0
011	1098.3	784.0	347.0 ¹	7.1 / 6.9
012	1178.3	784.0	352.7	7.1 / 9.9
014	1371.8	784.0	353.0	20.0 / 15.0
016	1586.8	784.0	356.9	18.0 / 16.0
017	1726.3	784.0	361.2	16.0 / 16.0
019	1890.6	784.0	370.3	17.0 / 10.0
020	2011.9	784.0	376.3	6.7 / 5.1
021	2148.7	784.0	395.1	7.3 / 7.3
023	2266.6	784.0	406.9	9.9 / 8.1
025	2500.0	784.0	418.2	36.0 / 6.0
030	2959.5	784.0	431.3	27.0 / 22.0
034	3381.3	784.0	438.9	11.0 / 17.0
039	3852.0	647.0	442.9	18.0 / 13.0
043	4256.0	647.0	445.5	12.0 / 6.0
049	4851.5	647.0	452.8	15.0 / 13.0
055	5482.2	647.0	459.9	30.0 / 6.0
061	6109.8	579.0	464.4	70.0 / 15.0
064	6353.6	579.0	465.3	14.0 / 6.0
065	6456.8	579.0	466.1	7.9 / 10.1
065	6526.8	579.0	470.1	24.9 / 60.1
065	6530.6	579.0	470.0	15.0 / 20.0
066	6590.6	579.0	471.8	8.0 / 12.0
068	6763.2	355.0	472.0	6.0 / 55.0
070	6957.6	355.0	472.0	26.0 / 27.0
070	7002.6	355.0	472.7	26.0 / 27.0
073	7322.6	355.0	475.1	60.0 / 40.0
078	7787.4	355.0	478.8	19.0 / 10.0
082	8177.4	355.0	481.1	35.0 / 8.0
083	8296.7	355.0	483.2	30.0 / 20.0
086	8564.5	275.0	485.7	20.0 / 10.0
088	8775.7	275.0	489.1	10.0 / 20.0
089	8927.8	275.0	491.4	10.0 / 10.0
091	9121.9	275.0	492.9	40.0 / 5.0
093	9269.9	275.0	494.1	45.0 / 36.0
094	9363.7	275.0	494.8	6.0 / 57.0
095	9505.1	275.0	496.4	6.0 / 57.0
097	9733.4	275.0	501.1	6.0 / 19.0

Table 17 – Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Flat River Tributary 4				
099	9915.3	275.0	505.7	35.5 / 16.5
101	10119.2	127.0	509.1	6.0 / 19.0
103	10319.0	127.0	512.7	5.0 / 5.0
Flat River Tributary 5				
039	3939.8	1151.0	498.4	23.6 / 35.2
043	4281.5	1151.0	500.4	27.6 / 7.8
048	4837.6	1151.0	504.0	89.0 / 31.9
005	478.0	876.0	346.7 ¹	225.8 / 226.1
007	694.0	876.0	346.7 ¹	152.7 / 156.4
010	1015.0	876.0	346.7 ¹	114.0 / 115.1
013	1291.0	876.0	346.7 ¹	106.2 / 105.8
016	1635.0	876.0	346.7 ¹	39.1 / 40.6
019	1911.0	876.0	346.7 ¹	25.0 / 25.0
022	2160.0	599.0	346.7 ¹	17.0 / 9.0
025	2471.0	599.0	347.7	7.0 / 6.0
028	2809.0	599.0	354.4	14.0 / 11.0
031	3111.0	599.0	358.7	10.0 / 9.0
035	3474.0	599.0	365.0	11.0 / 8.0
038	3755.0	599.0	371.7	10.0 / 5.0
041	4126.0	599.0	383.6	5.0 / 19.0
044	4389.0	599.0	388.5	9.0 / 15.0
047	4719.0	502.0	395.6	5.0 / 10.0
049	4933.0	502.0	399.8	17.0 / 12.0
053	5274.0	502.0	404.5	17.0 / 8.0
055	5540.0	502.0	407.5	27.0 / 9.0
060	5959.0	502.0	412.2	41.0 / 33.0
063	6260.0	502.0	416.4	11.0 / 12.0
067	6659.0	502.0	423.6	11.0 / 21.0
069	6907.0	502.0	427.0	27.0 / 5.0
073	7268.0	502.0	431.2	34.0 / 28.0
075	7477.0	502.0	432.9	54.0 / 6.0
077	7691.0	337.0	435.8	5.1 / 19.9
078	7782.0	337.0	438.3	5.1 / 19.9
080	7961.0	337.0	440.3	5.0 / 125.0
081	8064.0	337.0	444.5	12.0 / 91.0
083	8260.0	170.0	449.7	5.0 / 8.0
083	8326.0	170.0	453.5	5.0 / 8.0
085	8545.0	170.0	457.7	5.0 / 5.0
088	8824.0	170.0	467.2	5.0 / 5.0
091	9100.0	170.0	475.4	5.0 / 10.0
093	9281.0	170.0	482.3	10.0 / 20.0
094	9361.0	170.0	484.6	4.0 / 12.0
095	9480.0	170.0	484.9	40.0 / 5.0
097	9668.0	111.0	487.5	8.0 / 35.0

Table 17 – Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Flat River Tributary 6				
098	9808.0	111.0	494.3	10.0 / 50.0
100	10021.0	111.0	494.4	6.0 / 10.0
102	10229.0	111.0	498.8	5.0 / 35.0
Flat River Tributary 7				
001	144.0	820.0	392.2 ¹	50.0 / 5.0
003	299.0	820.0	392.2 ¹	75.0 / 9.0
005	529.0	820.0	392.2 ¹	12.0 / 19.0
007	714.0	820.0	395.4	13.0 / 10.0
008	843.0	820.0	399.8	21.0 / 7.0
010	992.0	820.0	405.6	5.0 / 14.0
011	1097.0	820.0	409.4	10.0 / 10.0
012	1155.0	820.0	410.9	10.0 / 15.0
012	1221.0	820.0	415.6	11.0 / 26.0
013	1293.0	820.0	417.3	20.0 / 20.0
015	1478.0	820.0	425.7	11.0 / 13.0
016	1629.0	820.0	429.6	30.0 / 10.0
018	1835.0	820.0	433.8	17.0 / 15.0
020	1952.0	820.0	437.5	8.0 / 17.0
022	2185.0	783.0	443.0	17.1 / 19.9
024	2354.0	783.0	446.7	12.1 / 12.9
028	2819.0	783.0	456.7	19.1 / 18.9
032	3233.0	783.0	465.1	12.0 / 19.0
037	3748.0	783.0	472.2	57.0 / 15.0
042	4215.0	163.0	474.3	11.0 / 33.0
044	4421.0	163.0	477.2	10.0 / 20.0
046	4565.0	163.0	480.3	24.0 / 14.0
048	4759.0	163.0	484.6	12.0 / 3.0
049	4929.0	163.0	488.3	8.0 / 7.0
051	5141.0	105.0	491.6	5.0 / 13.0
052	5242.0	105.0	497.5	5.0 / 13.0
053	5348.0	105.0	497.5	18.0 / 14.0
055	5512.0	105.0	503.5	5.0 / 10.0
057	5710.0	105.0	509.7	5.0 / 5.0
059	5864.0	105.0	513.9	5.0 / 5.0
060	5976.0	105.0	516.4	5.0 / 5.0
061	6144.0	49.0	520.7	2.0 / 2.0
Flat River Tributary 8				
003	267.0	1123.0	410.0 ¹	11.0 / 16.0
005	548.0	1123.0	410.0 ¹	36.0 / 5.0
009	863.0	1123.0	410.0 ¹	97.0 / 5.0
010	1033.0	1123.0	410.0 ¹	11.0 / 57.0
012	1206.0	1123.0	410.0 ¹	3.0 / 73.0
014	1354.0	1123.0	410.0 ¹	15.0 / 60.0
015	1540.0	1123.0	410.0 ¹	10.0 / 54.0

Table 17 – Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Flat River Tributary 8				
017	1655.0	1123.0	411.4	17.0 / 39.0
018	1770.0	1070.0	412.9	45.0 / 16.0
020	2026.0	1070.0	417.4	51.0 / 10.0
023	2282.0	1070.0	420.4	35.0 / 12.0
026	2642.0	730.0	428.2	5.0 / 35.0
030	2960.0	730.0	434.4	50.0 / 5.0
032	3179.0	730.0	438.2	27.0 / 31.0
038	3849.0	690.0	445.3	29.0 / 102.0
042	4176.0	690.0	447.1	140.0 / 8.0
046	4601.0	690.0	449.1	5.0 / 99.0
051	5110.0	562.0	452.3	39.0 / 27.0
Knap of Reeds Creek Tributary				
029	2918.0	955.0	265.7 ¹	26.0 / 30.3
035	3545.0	955.0	267.8	24.6 / 24.1
041	4090.9	955.0	271.7	20.6 / 137.5
041	4140.9	955.0	273.0	29.4 / 236.5
042	4229.8	955.0	273.2	35.4 / 246.8
043	4314.8	955.0	278.0	380.5 / 292.7
052	5185.6	955.0	278.2	17.5 / 112.0
057	5651.9	955.0	280.1	248.1 / 201.2
064	6393.9	955.0	282.0	190.0 / 106.4
070	7005.2	955.0	284.7	248.1 / 160.5
077	7667.6	955.0	288.1	102.4 / 233.2
083	8344.4	955.0	293.0	173.9 / 82.1
088	8764.0	745.0	295.9	37.8 / 169.6
091	9129.7	745.0	298.6	137.1 / 42.2
095	9543.6	745.0	303.0	26.3 / 38.1
099	9850.1	745.0	306.8	11.1 / 120.2
101	10116.1	745.0	308.5	12.7 / 61.2
102	10166.1	745.0	309.3	11.1 / 46.6
104	10381.6	745.0	313.4	58.3 / 185.2
110	10968.3	745.0	319.9	27.4 / 46.6
116	11584.9	745.0	330.3	73.8 / 42.4
121	12089.3	745.0	339.2	10.5 / 97.8
125	12527.9	745.0	347.1	10.9 / 10.3
126	12577.9	745.0	350.5	16.1 / 42.6
138	13772.8	318.0	376.3	4.0 / 4.7
Knap of Reeds Creek Tributary 2				
002	161.0	327.0	344.5	6.0 / 15.0
004	413.0	327.0	354.0	23.0 / 8.0
007	710.0	327.0	360.1	4.6 / 7.9
010	1033.0	314.0	365.9	5.0 / 18.2
013	1349.0	314.0	370.9	5.0 / 7.6
017	1656.0	314.0	377.2	4.4 / 24.3

Table 17 – Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Knap of Reeds Creek Tributary 2				
020	2015.0	314.0	381.7	5.0 / 57.7
023	2303.0	314.0	387.1	11.8 / 4.8
026	2645.0	314.0	393.1	3.5 / 21.1
030	2993.0	314.0	399.3	3.9 / 18.0
Laurel Creek				
037	3691.1	3160.0	265.51	66.8 / 161.9
041	4124.2	3160.0	265.51	100.8 / 138.6
043	4295.5	3160.0	265.51	101.1 / 17.6
046	4624.9	3160.0	266.1	117.2 / 14.8
050	4972.4	3160.0	268.0	105.1 / 100.1
054	5372.1	3160.0	269.8	191.9 / 14.8
059	5934.2	3160.0	273.6	201.0 / 14.8
064	6373.0	3160.0	275.8	50.1 / 39.9
064	6442.0	3160.0	278.7	65.1 / 44.9
070	6993.6	3160.0	279.7	15.4 / 14.9
071	7086.6	3160.0	282.4	35.1 / 26.9
078	7783.9	3160.0	286.0	145.0 / 150.0
083	8320.8	2790.0	289.3	110.0 / 60.1
087	8691.6	2790.0	291.7	130.1 / 59.9
093	9297.5	2790.0	295.2	13.4 / 239.3
098	9768.6	2790.0	297.3	124.6 / 73.2
101	10119.8	2790.0	298.9	21.1 / 201.8
104	10444.7	2790.0	300.4	37.3 / 231.4
107	10697.7	2790.0	301.6	63.2 / 144.4
111	11122.4	2790.0	304.6	20.1 / 132.4
116	11626.1	2790.0	308.7	13.4 / 121.9
121	12059.1	2790.0	312.4	37.4 / 83.2
124	12404.8	2790.0	315.4	31.7 / 87.5
128	12828.6	2790.0	318.4	22.2 / 140.2
132	13195.1	2790.0	320.2	28.6 / 35.8
135	13544.6	2790.0	325.1	58.1 / 69.9
139	13938.7	2790.0	327.2	53.9 / 114.6
143	14317.6	2790.0	329.4	13.4 / 86.3
148	14798.3	2790.0	333.7	13.4 / 135.7
154	15386.1	2790.0	336.9	104.1 / 69.2
159	15908.4	2790.0	339.8	146.9 / 24.9
163	16289.5	2790.0	343.1	147.7 / 13.4
166	16643.3	2790.0	345.8	211.6 / 13.4
172	17239.9	2790.0	349.9	13.4 / 186.2
177	17722.3	2790.0	353.3	13.4 / 180.8
Lick Creek				
138	13764.0	6210.0	265.5 ¹	800.0 / 100.0
142	14202.9	6210.0	265.5 ¹	600.0 / 100.0
156	15640.2	6300.0	265.5 ¹	300.0 / 40.0

Table 17 – Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Lick Creek				
157	15728.2	6300.0	265.5'	340.0 / 40.0
178	17777.0	6300.0	265.5'	170.0 / 893.4
191	19130.0	6300.0	265.5'	132.9 / 863.4
206	20582.1	6060.0	265.5'	117.0 / 135.5
206	20632.1	6060.0	265.5'	160.0 / 160.0
220	22005.2	6060.0	266.4	180.0 / 324.1
236	23600.2	6060.0	270.1	35.0 / 390.0
244	24406.3	6060.0	271.7	30.0 / 381.0
Lick Creek Tributary 2				
014	1368.1	1080.0	265.5'	14.0 / 184.9
024	2414.7	1080.0	265.5'	34.3 / 74.3
030	2970.6	1080.0	267.3	30.6 / 84.6
036	3577.9	1080.0	271.7	23.6 / 99.8
040	3985.5	1080.0	274.7	69.6 / 14.0
047	4688.3	1250.0	281.3	106.5 / 14.0
051	5067.4	1250.0	286.2	50.6 / 22.2
058	5783.4	1250.0	291.1	70.4 / 63.9
062	6249.1	656.0	294.2	16.0 / 50.0
067	6740.1	656.0	300.5	43.1 / 54.7
072	7185.4	656.0	305.7	14.0 / 19.0
078	7824.9	656.0	316.2	40.9 / 16.9
Little Brier Creek (Basin 18, Stream 15)				
214	21420.0	2520.0	350.9	12.9 / 130.1
219	21928.0	2520.0	354.3	48.3 / 129.7
226	22552.0	1550.0	356.2	25.6 / 42.5
233	23280.0	1550.0	360.0	46.6 / 20.4
239	23884.0	1550.0	363.6	42.0 / 70.4
242	24153.1	951.0	362.4	29.0 / 60.0
245	24525.0	1370.0	366.9	20.4 / 26.7
250	25034.0	1370.0	370.9	17.6 / 46.4
253	25311.0	1370.0	373.3	23.0 / 44.2
Little Brier Creek East (Basin 18, Stream 16)				
126	12600.0	622.0	383.7	29.5 / 6.5
134	13447.0	622.0	388.4	19.0 / 8.0
141	14135.0	558.0	397.1	10.0 / 8.0
148	14811.0	558.0	403.8	5.5 / 5.8
150	15039.0	558.0	408.6	5.2 / 5.5
153	15255.0	558.0	420.7	100.0 / 99.0
155	15466.0	558.0	420.7	50.0 / 50.0
162	16162.0	223.0	424.3	4.9 / 6.0
166	16629.0	223.0	435.6	5.6 / 5.6
167	16694.0	223.0	447.9	27.0 / 35.0
172	17170.0	223.0	447.9	15.0 / 20.0
178	17830.0	223.0	455.9	6.3 / 5.7

Table 17 – Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Little Brier Creek Tributary 1				
001	134.0	853.0	355.81	75.0 / 35.0
005	520.0	853.0	358.8	50.0 / 33.0
011	1076.0	853.0	363.8	29.0 / 26.0
017	1719.0	853.0	368.4	12.0 / 38.0
023	2267.0	703.0	373.6	14.0 / 36.0
028	2804.0	703.0	379.7	3.0 / 30.0
031	3130.0	302.0	384.9	20.0 / 32.0
Little Brier Creek Tributary 2				
000	20.0	340.0	373.3	36.0 / 15.0
002	181.0	340.0	373.3	5.9 / 32.5
005	484.0	340.0	378.6	11.0 / 30.0
007	664.0	340.0	381.7	10.0 / 36.0
008	823.0	340.0	387.4	22.0 / 9.9
013	1345.0	340.0	399.5	3.9 / 22.6
015	1514.0	340.0	402.7	6.6 / 6.6
Little Creek				
035	3500.0	7280.0	237.8 ¹	480.0 / 814.2
041	4122.9	7280.0	237.8 ¹	77.2 / 930.3
047	4687.6	7280.0	237.8 ¹	61.7 / 941.9
050	5000.0	7280.0	237.8 ¹	162.8 / 1027.5
056	5584.0	7380.0	237.8 ¹	323.7 / 915.8
066	6597.0	7380.0	237.8 ¹	829.4 / 571.8
073	7272.0	7380.0	237.8 ¹	937.3 / 145.1
080	8000.0	7380.0	237.8 ¹	1009.4 / 259.7
085	8500.0	7380.0	237.8 ¹	1050.9 / 24.1
090	9000.0	7380.0	237.8 ¹	869.9 / 180.7
097	9677.9	7380.0	237.8 ¹	528.7 / 387.1
100	9971.2	7380.0	237.8 ¹	415.6 / 491.3
105	10500.0	7380.0	237.8 ¹	650.0 / 230.0
110	10996.9	7380.0	237.8 ¹	107.0 / 79.0
111	11059.4	7380.0	237.8 ¹	107.0 / 79.0
115	11500.0	7380.0	237.8 ¹	117.4 / 851.9
121	12054.8	7380.0	237.8 ¹	23.6 / 858.5
125	12500.0	7380.0	237.8 ¹	23.5 / 1018.1
128	12798.5	8220.0	237.8 ¹	144.3 / 917.7
135	13500.0	8220.0	237.8 ¹	22.9 / 1185.0
140	14000.0	8220.0	237.8 ¹	22.9 / 1194.4
145	14500.0	8220.0	237.8 ¹	22.9 / 1147.0
150	15000.0	8220.0	237.8 ¹	22.9 / 1223.8
155	15500.0	8220.0	237.8 ¹	128.5 / 1185.6
160	16000.0	8220.0	237.8 ¹	22.9 / 1299.3
167	16654.7	8220.0	237.8 ¹	111.4 / 1245.8
170	17000.0	8220.0	237.8 ¹	22.9 / 1191.3
175	17500.0	8220.0	237.8 ¹	22.9 / 982.5

Table 17 – Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Little Creek				
180	18000.0	8220.0	237.8'	180.1 / 615.0
185	18500.0	8770.0	237.8'	429.7 / 441.3
189	18882.7	8770.0	237.8'	620.0 / 300.1
195	19500.0	8770.0	237.8'	960.1 / 22.6
198	19838.2	8770.0	237.8'	796.8 / 150.0
206	20611.0	8770.0	237.8'	600.0 / 616.8
210	21000.0	8770.0	237.8'	650.1 / 550.0
215	21500.0	8770.0	238.0	730.1 / 510.0
219	21920.3	8770.0	238.5	104.9 / 114.9
220	22039.3	8770.0	240.5	104.9 / 114.9
225	22500.0	8810.0	241.5	150.0 / 900.0
228	22837.8	8810.0	241.5	452.4 / 1308.1
235	23500.0	8810.0	241.7	780.0 / 833.8
240	24000.0	8810.0	241.9	744.0 / 707.5
245	24500.0	8810.0	242.1	647.4 / 485.0
250	25000.0	8810.0	242.5	511.7 / 465.0
255	25500.0	8800.0	243.1	400.0 / 420.0
260	26000.0	8800.0	243.8	225.0 / 65.1
265	26500.0	8800.0	245.9	70.0 / 160.0
270	27000.0	8800.0	247.6	285.4 / 34.5
275	27500.0	8800.0	248.3	488.0 / 220.6
280	28000.0	8800.0	248.5	513.3 / 100.9
285	28500.0	8320.0	248.5	440.0 / 450.0
285	28500.0	8800.0	248.7	440.1 / 450.0
Little Lick Creek				
043	4345.0	5960.0	265.5'	32.4 / 1438.9
059	5932.9	5960.0	265.5'	364.4 / 948.0
065	6523.0	5960.0	265.5'	548.6 / 876.8
072	7209.3	5800.0	265.5'	636.3 / 353.0
073	7309.3	5800.0	266.0	636.3 / 353.0
079	7855.2	5800.0	266.1	427.7 / 206.1
082	8168.1	5800.0	266.2	368.5 / 45.3
090	9001.3	5500.0	266.7	853.3 / 370.7
095	9540.1	5500.0	266.8	914.3 / 23.4
100	9962.7	5500.0	266.9	927.4 / 101.0
113	11325.0	5500.0	267.3	908.0 / 245.5
124	12390.4	5500.0	267.7	883.8 / 10.7
135	13546.8	5500.0	268.5	441.6 / 455.4
142	14249.9	5500.0	269.3	162.4 / 560.6
158	15813.9	6200.0	271.2	10.6 / 633.6
168	16758.6	6200.0	272.4	280.0 / 250.1
181	18100.3	6200.0	274.0	447.8 / 92.3
Little Lick Creek Tributary 1				
023	2313.4	2160.0	265.5'	245.2 / 60.0

Table 17 – Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Little Lick Creek Tributary 1				
032	3176.9	2160.0	265.5 ¹	167.7 / 14.0
039	3929.5	2160.0	265.5 ¹	170.0 / 23.0
047	4674.9	2160.0	268.2	19.6 / 182.4
055	5509.1	2700.0	271.6	25.0 / 150.0
064	6419.7	2700.0	276.9	10.5 / 75.0
070	6973.6	2700.0	279.4	45.0 / 155.9
075	7515.2	1870.0	280.4	92.5 / 133.7
082	8205.1	1870.0	281.9	127.2 / 31.1
091	9148.1	1870.0	286.4	27.5 / 173.3
097	9700.2	1660.0	289.9	19.6 / 45.7
104	10389.3	1660.0	297.2	39.0 / 37.9
110	11013.3	1660.0	301.9	9.2 / 60.8
Little Lick Creek Tributary 3				
001	54.3	1930.0	265.5 ¹	183.2 / 105.6
002	220.4	1930.0	265.5 ¹	49.5 / 312.0
003	265.4	1930.0	266.5	49.5 / 312.0
007	670.3	1930.0	266.5	134.0 / 205.0
007	710.3	1930.0	266.5	134.0 / 205.0
012	1171.0	1930.0	266.7	189.3 / 81.8
018	1751.7	1930.0	267.5	198.3 / 44.1
022	2150.4	1930.0	268.6	45.0 / 184.2
025	2496.8	1930.0	270.0	9.6 / 260.0
028	2830.9	1930.0	272.0	19.9 / 222.5
029	2930.9	2060.0	276.0	19.9 / 155.1
036	3576.5	2060.0	276.4	100.8 / 201.3
041	4129.0	2060.0	277.4	60.8 / 210.8
047	4746.7	2060.0	278.9	30.8 / 19.3
052	5158.6	2060.0	283.5	60.8 / 55.3
057	5703.4	1550.0	285.8	30.8 / 14.3
061	6078.9	1550.0	289.7	25.8 / 13.1
065	6478.6	1550.0	294.5	26.7 / 10.4
068	6841.0	1550.0	298.5	6.0 / 18.5
Little Lick Creek Tributary 3A				
001	107.0	1550.0	289.5	37.0 / 60.0
002	168.0	1550.0	289.7	32.0 / 50.0
005	508.0	1550.0	291.0	65.0 / 40.0
010	1020.0	1550.0	293.2	45.0 / 30.0
014	1400.0	1550.0	295.4	55.0 / 32.0
016	1584.0	1550.0	296.3	60.0 / 25.0
018	1806.0	1550.0	298.0	35.0 / 30.0
021	2118.0	1550.0	302.1	35.0 / 30.0
023	2348.0	1550.0	304.0	28.0 / 56.0
025	2500.0	1550.0	307.0	28.0 / 56.0
027	2671.0	701.0	307.3	33.1 / 80.9

Table 17 – Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Little Lick Creek Tributary 4				
002	196.2	927.0	269.3'	25.6 / 74.4
007	705.5	927.0	272.8	12.4 / 54.6
011	1061.0	893.0	275.8	42.5 / 31.8
012	1240.5	893.0	279.1	15.2 / 21.5
014	1410.5	893.0	291.1	41.0 / 39.0
014	1412.2	893.0	291.1	40.9 / 39.1
016	1551.0	893.0	292.5	135.1 / 135.0
019	1852.8	893.0	292.5	216.6 / 216.6
023	2268.1	893.0	292.5	131.6 / 131.6
028	2804.6	893.0	292.5	76.6 / 76.6
Little River				
042	4167.4	12800.0	269.6'	940.4 / 189.5
065	6500.0	12800.0	269.6'	895.5 / 551.1
079	7883.1	12800.0	269.6'	805.0 / 995.0
079	7928.1	12800.0	269.6	805.0 / 995.0
092	9209.1	12800.0	269.8	909.6 / 276.5
108	10824.5	12800.0	270.2	643.0 / 201.0
110	11044.5	12800.0	270.6	643.0 / 201.0
145	14500.0	12800.0	271.7	824.7 / 377.5
160	15974.7	13200.0	272.4	653.4 / 813.4
169	16898.4	13200.0	273.0	35.4 / 676.5
180	18000.0	13200.0	274.2	35.3 / 738.0
190	19000.0	13200.0	275.0	650.4 / 767.6
200	20000.0	13200.0	275.5	906.1 / 89.9
210	21000.0	13200.0	276.1	817.1 / 416.5
220	22000.0	13300.0	276.6	816.3 / 892.2
236	23625.9	13300.0	277.0	634.1 / 1767.7
245	24500.0	13300.0	277.0	826.7 / 1264.2
255	25516.0	13300.0	277.1	677.0 / 676.0
291	29114.1	13200.0	284.8	359.1 / 359.1
294	29409.1	13200.0	360.1	359.1 / 359.1
302	30236.0	13200.0	360.1	362.2 / 374.8
310	30971.3	13200.0	360.1	333.1 / 285.3
320	32001.6	16200.0	360.1	504.9 / 504.9
327	32724.8	16200.0	360.1	738.3 / 656.0
332	33224.8	16200.0	360.1	675.4 / 656.0
337	33724.8	16200.0	360.1	470.0 / 470.0
342	34224.8	16200.0	360.1	470.0 / 470.0
347	34724.8	16200.0	360.1	377.0 / 432.9
352	35224.8	16200.0	360.1	260.8 / 260.8
357	35724.8	16200.0	360.1	409.6 / 409.6
364	36409.1	16200.0	360.1	538.6 / 538.6
370	36981.5	16200.0	360.1	315.0 / 374.4
370	37031.5	16200.0	360.3	315.0 / 374.4

Table 17 – Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Little River				
377	37724.8	16200.0	360.4	585.0 / 585.0
382	38224.8	15100.0	360.4	333.5 / 333.5
387	38724.8	15100.0	360.4	235.0 / 235.0
392	39224.8	15100.0	360.3	185.4 / 185.4
397	39724.8	15100.0	360.4	275.6 / 275.6
402	40224.8	15100.0	360.4	304.9 / 304.9
407	40724.8	15100.0	360.4	254.8 / 254.8
412	41224.8	15100.0	360.4	230.0 / 230.0
417	41724.8	15100.0	360.4	205.7 / 205.7
424	42382.4	15100.0	360.4	289.0 / 289.1
427	42724.8	15100.0	360.4	271.6 / 271.6
432	43224.8	15100.0	360.4	201.7 / 201.7
437	43724.8	15100.0	360.4	206.7 / 206.7
443	44335.1	15100.0	360.3	141.3 / 141.3
448	44838.1	13400.0	360.4	325.0 / 274.3
452	45224.8	13400.0	360.4	233.1 / 233.1
457	45724.8	13400.0	360.4	166.2 / 166.2
462	46224.8	13400.0	360.4	210.8 / 210.8
469	46944.2	13400.0	360.4	487.7 / 118.6
477	47724.8	13300.0	360.4	257.8 / 257.8
482	48224.8	13300.0	360.4	136.1 / 136.1
489	48905.1	13300.0	360.4	178.8 / 178.8
495	49536.2	13200.0	360.4	94.5 / 94.5
501	50134.0	13200.0	360.4	150.0 / 96.0
502	50195.0	13200.0	360.6	150.0 / 96.0
507	50724.8	13200.0	360.6	240.0 / 67.1
512	51224.8	13200.0	360.8	146.1 / 36.8
518	51789.0	13200.0	360.8	33.3 / 180.0
Little River Tributary 1				
077	7658.0	3120.0	473.0	58.2 / 41.8
080	8000.0	3120.0	475.7	16.9 / 79.1
085	8500.0	3120.0	478.2	195.9 / 73.3
090	9000.0	3120.0	479.7	153.3 / 42.6
095	9467.5	3120.0	482.5	150.0 / 120.0
095	9532.5	3120.0	485.7	85.0 / 100.0
105	10500.0	1980.0	488.3	59.5 / 63.9
111	11076.2	1980.0	497.0	46.2 / 126.6
115	11500.0	1980.0	499.2	122.6 / 86.3
122	12199.9	1980.0	503.2	96.1 / 22.9
122	12236.9	1980.0	503.4	105.1 / 21.9
128	12767.7	1980.0	508.2	59.5 / 18.6
135	13500.0	1980.0	514.5	49.6 / 60.4
140	14000.0	1980.0	519.7	8.8 / 69.7
145	14500.0	1980.0	526.5	10.1 / 84.9

Table 17 – Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Little River Tributary 1				
150	15000.0	1980.0	532.4	66.3 / 12.6
155	15500.0	1980.0	539.0	50.2 / 22.7
160	16000.0	1980.0	547.5	23.1 / 66.5
167	16684.9	1980.0	556.9	22.1 / 99.9
167	16739.9	1980.0	558.0	22.1 / 99.9
170	16994.4	1980.0	565.8	3.6 / 35.1
Little River Tributary 2				
004	424.1	1380.0	360.1 ¹	120.2 / 67.2
010	1000.0	1380.0	360.1 ¹	33.5 / 129.0
015	1500.0	1380.0	360.1 ¹	69.6 / 56.8
020	2000.0	1380.0	360.1 ¹	52.8 / 53.0
025	2500.0	1380.0	360.1 ¹	63.3 / 30.1
029	2900.9	1380.0	361.9	20.0 / 20.0
033	3316.7	1380.0	372.0	30.1 / 11.9
039	3865.5	1380.0	379.1	11.0 / 25.0
040	4030.5	1260.0	385.9	19.0 / 75.0
045	4500.0	1260.0	385.8	30.0 / 25.0
049	4887.8	1260.0	389.4	81.3 / 17.2
055	5500.0	1260.0	393.4	37.5 / 14.0
060	6000.0	1260.0	397.7	87.7 / 14.0
064	6403.9	1260.0	399.4	14.0 / 106.5
070	7000.0	1260.0	402.6	16.5 / 67.6
075	7500.0	1260.0	408.1	16.8 / 22.4
080	8000.0	1260.0	412.6	78.3 / 14.0
085	8500.0	1260.0	419.9	53.3 / 54.4
090	9000.0	1260.0	424.1	69.7 / 30.4
Little River Tributary 3				
004	366.6	1570.0	360.4 ¹	125.0 / 105.0
010	1042.3	1570.0	360.4 ¹	110.0 / 90.0
015	1542.3	1540.0	360.4 ¹	55.0 / 65.0
020	2042.3	1540.0	360.4 ¹	17.0 / 13.0
025	2542.3	1540.0	360.4 ¹	25.0 / 48.0
030	3042.3	1540.0	360.4 ¹	13.0 / 12.0
035	3542.3	1540.0	364.9	11.0 / 52.0
Little River Tributary 4				
004	365.5	2350.0	360.4 ¹	74.9 / 121.5
010	1004.7	2350.0	360.4 ¹	10.0 / 25.0
015	1500.0	2350.0	362.2	29.9 / 10.1
023	2275.0	2350.0	374.1	69.0 / 30.0
030	3000.0	2350.0	382.4	95.7 / 12.9
037	3694.6	2350.0	389.0	22.0 / 22.0
039	3891.6	2350.0	395.9	22.0 / 22.0
045	4500.0	2350.0	401.7	40.1 / 7.9
050	5000.0	2350.0	408.1	52.9 / 46.5

Table 17 – Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Little River Tributary 4				
054	5364.8	2350.0	409.6	41.3 / 101.2
060	6000.0	2350.0	412.4	88.7 / 28.8
064	6428.8	2350.0	416.9	84.2 / 14.3
071	7079.0	2350.0	421.8	176.9 / 30.3
075	7500.0	2350.0	423.4	156.3 / 12.9
080	8000.0	2350.0	426.2	97.8 / 12.9
085	8502.7	2350.0	428.9	294.0 / 13.0
086	8587.7	2350.0	430.8	294.0 / 50.0
091	9098.7	1800.0	431.9	115.1 / 130.0
098	9769.8	1800.0	438.8	25.2 / 114.9
102	10166.6	1800.0	441.2	69.4 / 142.0
102	10221.6	1800.0	443.6	69.4 / 142.0
105	10500.0	1800.0	444.0	26.7 / 136.6
110	11000.0	1800.0	447.3	10.1 / 102.2
115	11500.0	1800.0	452.1	142.5 / 11.7
120	12000.0	1800.0	458.6	11.7 / 63.9
125	12500.0	1800.0	466.4	27.6 / 65.7
130	13000.0	1800.0	471.2	63.4 / 11.6
134	13406.0	1800.0	476.3	32.3 / 85.7
136	13567.3	1800.0	478.1	25.1 / 49.9
136	13637.3	1800.0	479.9	50.1 / 79.9
140	14000.0	1800.0	481.5	54.9 / 30.1
148	14777.7	1800.0	493.7	49.9 / 20.1
151	15144.9	1800.0	499.7	32.0 / 35.0
152	15216.9	1800.0	506.6	25.0 / 58.0
156	15649.2	1800.0	508.0	40.7 / 29.0
159	15943.1	1800.0	513.0	19.9 / 50.1
160	15980.1	1800.0	513.7	29.9 / 70.1
161	16067.1	1800.0	515.6	15.7 / 87.0
161	16086.2	1800.0	515.5	12.9 / 41.6
162	16154.2	1800.0	515.7	17.1 / 41.9
162	16219.1	1800.0	518.2	16.9 / 55.1
Little River Tributary 4A				
004	360.0	833.0	434.1 ¹	48.8 / 41.3
006	597.0	833.0	434.1 ¹	21.8 / 74.0
008	783.0	833.0	434.1 ¹	27.2 / 52.2
009	896.0	833.0	434.1 ¹	9.6 / 44.9
010	1002.0	833.0	434.3	18.6 / 9.9
011	1106.0	833.0	437.2	40.0 / 40.0
013	1258.0	833.0	438.8	39.6 / 37.1
014	1402.0	833.0	439.6	41.4 / 30.0
017	1668.0	833.0	440.6	49.8 / 75.0
018	1838.0	833.0	441.1	56.9 / 53.7
020	1952.0	833.0	441.7	37.7 / 5.0

Table 17 – Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Little River Tributary 4A				
021	2096.0	833.0	442.6	30.0 / 37.5
022	2197.0	833.0	443.6	8.0 / 54.0
023	2310.0	833.0	445.5	25.0 / 14.0
024	2422.0	833.0	447.3	23.0 / 13.8
026	2562.0	833.0	449.2	33.3 / 16.0
027	2679.0	833.0	450.0	33.0 / 53.1
028	2791.0	833.0	450.5	33.5 / 77.0
029	2944.0	833.0	451.1	16.9 / 70.0
031	3075.0	833.0	451.7	43.0 / 54.5
033	3260.0	833.0	452.8	32.2 / 50.0
034	3376.0	833.0	453.6	32.8 / 40.8
035	3524.0	833.0	454.4	108.0 / 15.0
036	3647.0	833.0	455.4	61.4 / 5.0
038	3771.0	833.0	457.8	13.0 / 33.0
040	3971.0	833.0	460.4	50.0 / 47.0
041	4101.0	833.0	461.7	25.0 / 17.8
043	4267.0	479.0	463.8	19.0 / 17.5
044	4395.0	479.0	466.0	25.0 / 25.0
045	4480.0	479.0	466.4	13.0 / 25.0
047	4696.0	479.0	468.6	7.0 / 55.0
048	4844.0	479.0	470.6	5.0 / 44.6
050	4994.0	479.0	473.2	15.8 / 30.0
052	5238.0	203.0	475.3	10.0 / 10.0
054	5358.0	203.0	478.9	10.0 / 8.0
054	5421.0	203.0	479.0	24.5 / 5.0
057	5677.0	203.0	481.9	9.7 / 5.5
Little River Tributary 5				
002	189.0	769.0	486.1 ¹	118.1 / 4.9
004	374.0	769.0	486.1 ¹	117.1 / 41.9
005	528.0	769.0	486.5	5.1 / 59.9
007	690.0	769.0	489.4	55.1 / 14.9
008	800.0	769.0	491.6	98.0 / 5.0
009	886.0	769.0	493.1	98.0 / 5.0
010	972.0	769.0	495.1	16.1 / 40.9
011	1093.0	769.0	497.6	20.1 / 31.9
012	1219.0	769.0	500.5	48.1 / 11.9
013	1319.0	769.0	502.6	18.0 / 18.0
015	1464.0	769.0	506.5	14.0 / 16.0
015	1537.0	683.0	508.3	9.0 / 27.0
016	1575.0	683.0	508.7	10.0 / 15.5
018	1752.0	683.0	517.9	10.0 / 40.0
019	1855.0	683.0	518.0	20.0 / 25.0
020	2002.0	683.0	519.6	12.0 / 7.0
021	2121.0	683.0	522.6	28.0 / 27.0

Table 17 – Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Little River Tributary 5				
023	2252.0	683.0	525.6	30.0 / 4.0
024	2387.0	683.0	528.7	17.0 / 36.0
025	2531.0	683.0	531.6	5.0 / 33.0
027	2664.0	683.0	535.2	6.0 / 31.0
028	2840.0	559.0	536.9	22.0 / 58.0
Little River Tributary 6				
003	256.0	973.0	488.4	20.0 / 58.0
004	442.0	973.0	490.1	40.0 / 127.0
006	607.0	973.0	491.7	33.0 / 55.0
007	719.0	973.0	493.1	47.0 / 46.0
008	822.0	819.0	494.0	15.0 / 15.0
009	946.0	819.0	497.7	15.0 / 15.0
011	1067.0	819.0	498.7	61.0 / 5.0
012	1208.0	819.0	500.3	51.0 / 5.0
014	1354.0	819.0	501.2	61.0 / 19.0
015	1456.0	819.0	501.6	88.0 / 9.0
016	1634.0	819.0	503.2	37.0 / 29.0
019	1901.0	819.0	505.9	40.0 / 35.0
021	2097.0	819.0	507.6	82.0 / 5.0
023	2268.0	429.0	509.4	58.0 / 20.0
025	2493.0	429.0	511.4	14.0 / 43.0
026	2627.0	429.0	513.1	34.0 / 30.0
028	2795.0	429.0	515.5	35.0 / 32.0
029	2931.0	429.0	517.7	5.0 / 56.0
031	3102.0	404.0	519.9	61.0 / 5.0
033	3284.0	404.0	521.6	45.0 / 13.0
035	3480.0	404.0	523.8	30.0 / 15.0
036	3629.0	404.0	525.9	43.0 / 13.0
038	3849.0	404.0	528.6	77.0 / 9.0
040	3999.0	404.0	531.0	47.0 / 5.0
041	4148.0	404.0	532.4	16.0 / 53.0
043	4314.0	404.0	536.1	38.0 / 5.0
045	4455.0	404.0	538.9	21.0 / 34.0
046	4625.0	324.0	542.5	11.0 / 24.0
Little River Tributary 7				
001	128.0	198.0	385.9'	29.0 / 5.0
003	299.0	198.0	385.9'	17.0 / 6.0
005	487.0	198.0	387.6	5.0 / 39.0
007	730.0	198.0	390.9	5.0 / 10.0
008	777.0	198.0	392.2	5.0 / 15.0
008	847.0	198.0	393.6	10.0 / 5.0
009	925.0	198.0	395.1	5.0 / 26.0
010	1027.0	198.0	397.4	5.0 / 13.0
011	1124.0	198.0	399.6	5.0 / 16.0

Table 17 – Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Little River Tributary 7				
012	1161.0	198.0	400.2	11.0 / 7.0
012	1234.0	198.0	401.4	12.0 / 14.0
013	1289.0	198.0	402.3	14.0 / 5.0
014	1365.0	198.0	403.9	20.0 / 5.0
014	1442.0	198.0	404.9	21.0 / 5.0
015	1540.0	198.0	406.3	5.0 / 16.0
017	1661.0	198.0	408.0	5.0 / 24.0
018	1790.0	198.0	409.9	16.0 / 5.0
019	1917.0	198.0	412.1	30.0 / 5.0
021	2051.0	198.0	413.7	27.0 / 5.0
022	2169.0	198.0	415.5	9.0 / 7.0
023	2259.0	198.0	417.5	12.0 / 5.0
024	2399.0	198.0	420.0	5.0 / 14.0
025	2488.0	198.0	421.5	9.0 / 6.0
026	2589.0	198.0	423.6	20.0 / 5.0
Martin Branch				
005	451.2	2700.0	282.1 ¹	109.1 / 22.0
010	980.1	2700.0	282.1 ¹	177.8 / 13.5
014	1389.6	2700.0	282.2	302.8 / 28.2
019	1854.8	2700.0	283.9	290.9 / 17.3
025	2456.5	2750.0	286.7	53.7 / 162.7
030	2974.4	2750.0	288.8	52.6 / 240.4
035	3456.0	2750.0	290.2	63.6 / 267.3
039	3888.4	2750.0	291.4	224.3 / 73.2
044	4430.1	2650.0	293.7	33.6 / 185.9
047	4747.8	2650.0	295.3	13.5 / 208.5
053	5250.9	2650.0	297.0	81.9 / 247.6
060	6002.7	2650.0	299.7	67.6 / 200.9
066	6562.7	2290.0	302.0	160.2 / 127.0
073	7275.7	2290.0	305.2	85.8 / 13.5
077	7679.7	2290.0	309.2	135.2 / 21.4
Morgan Creek				
241	24145.8	11700.0	237.8 ¹	218.0 / 220.0
242	24197.8	11700.0	237.8 ¹	218.0 / 220.0
250	25000.0	11700.0	237.8 ¹	713.4 / 448.5
260	26000.0	11700.0	237.8 ¹	735.4 / 46.9
270	27000.0	11700.0	237.8 ¹	559.7 / 531.2
290	29043.8	11700.0	237.8 ¹	551.5 / 551.0
306	30621.9	11700.0	238.9	533.6 / 534.9
310	31026.2	11700.0	239.3	246.9 / 543.9
315	31500.0	11700.0	239.9	526.6 / 535.0
323	32255.8	11700.0	240.7	544.3 / 538.8
340	34000.0	11800.0	242.6	191.6 / 589.9
351	35063.8	11800.0	243.8	164.3 / 671.3

Table 17 – Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Morgan Creek				
365	36500.0	11800.0	245.0	461.0 / 592.5
380	38000.0	11800.0	246.1	554.1 / 559.2
395	39500.0	11800.0	247.7	523.4 / 557.7
407	40663.1	11800.0	249.2	531.0 / 537.3
Mountain Creek				
005	500.0	3580.0	360.4 ¹	170.0 / 160.1
010	1000.0	3580.0	360.4 ¹	169.0 / 184.0
015	1500.0	3580.0	360.4 ¹	169.0 / 134.0
020	2000.0	3580.0	360.4 ¹	129.1 / 107.0
025	2500.0	3580.0	360.4 ¹	168.0 / 132.1
032	3202.5	3580.0	360.4 ¹	209.0 / 57.1
038	3760.0	3580.0	360.4 ¹	23.0 / 23.0
038	3845.0	3580.0	360.4 ¹	23.0 / 23.0
045	4500.0	3580.0	360.4 ¹	165.0 / 125.3
048	4830.1	3350.0	360.4 ¹	150.0 / 250.1
055	5500.0	3350.0	360.4 ¹	25.0 / 22.3
060	6000.0	3350.0	362.5	46.0 / 10.9
067	6679.3	3350.0	368.2	20.0 / 30.0
067	6719.3	3350.0	372.9	50.0 / 30.0
075	7500.0	3350.0	375.9	50.0 / 10.0
080	8000.0	3350.0	380.2	110.1 / 64.9
085	8500.0	3350.0	382.3	100.5 / 138.3
090	9000.0	3350.0	383.5	70.1 / 93.9
095	9500.0	3350.0	385.9	62.5 / 123.2
100	10000.0	3100.0	387.0	63.1 / 17.9
104	10367.5	3100.0	388.3	34.0 / 27.0
104	10411.5	3100.0	389.1	45.0 / 55.0
113	11319.4	3100.0	390.9	13.1 / 180.0
120	12000.0	3100.0	394.1	18.4 / 90.2
125	12500.0	3100.0	395.9	18.4 / 55.4
130	13000.0	3100.0	398.2	90.0 / 120.0
135	13500.0	3100.0	398.9	180.0 / 38.1
140	14000.0	3100.0	399.6	79.9 / 65.1
145	14467.0	3100.0	400.9	25.0 / 40.0
147	14653.0	3100.0	404.9	25.0 / 90.0
155	15500.0	2930.0	405.5	245.0 / 90.0
161	16081.8	2390.0	406.9	62.2 / 192.2
165	16500.0	2390.0	407.7	17.1 / 133.3
170	17000.0	2310.0	408.9	283.3 / 45.0
175	17500.0	2310.0	409.7	92.3 / 16.8
180	17965.3	2310.0	412.4	46.0 / 93.5
185	18500.0	2310.0	414.7	51.9 / 16.8
190	19000.0	2310.0	417.9	43.3 / 25.3
194	19397.9	2310.0	420.5	24.7 / 68.7

Table 17 – Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Mountain Creek				
199	19917.0	2310.0	422.8	73.1 / 21.0
204	20394.8	2310.0	425.3	16.8 / 77.7
209	20890.4	2310.0	428.2	26.1 / 30.2
214	21360.4	2310.0	430.6	24.9 / 42.4
218	21848.5	2310.0	434.0	85.1 / 29.9
223	22322.8	2310.0	436.4	20.0 / 20.0
224	22364.8	2310.0	437.6	23.0 / 23.0
233	23326.1	2310.0	442.0	15.1 / 145.0
239	23910.5	2310.0	446.5	26.0 / 17.5
240	23982.5	3100.0	450.9	26.0 / 25.0
248	24826.1	3100.0	455.5	59.9 / 12.1
253	25326.1	3100.0	459.6	150.0 / 90.0
258	25826.1	3100.0	460.5	200.1 / 337.0
263	26326.1	3100.0	461.3	271.1 / 74.9
271	27101.1	3100.0	463.2	200.0 / 70.0
278	27788.6	2840.0	465.5	21.0 / 200.0
279	27863.6	2840.0	465.6	21.0 / 200.0
283	28326.1	2840.0	468.2	14.2 / 356.4
293	29326.1	2240.0	469.0	94.2 / 351.2
298	29826.1	2240.0	469.7	151.4 / 104.9
303	30326.1	2240.0	471.6	238.8 / 15.9
308	30826.1	2240.0	473.2	204.9 / 12.8
313	31327.0	2240.0	475.8	45.0 / 85.0
314	31408.0	2240.0	476.9	45.0 / 70.0
323	32326.1	2240.0	479.4	106.0 / 189.1
328	32826.1	2240.0	481.3	187.3 / 66.4
333	33327.1	2240.0	482.3	379.2 / 12.9
337	33719.1	1520.0	482.6	515.8 / 94.9
342	34219.1	1520.0	483.2	42.3 / 144.7
347	34719.1	1520.0	486.9	109.9 / 87.0
352	35219.1	1520.0	489.3	72.1 / 38.6
358	35840.3	1520.0	492.2	32.0 / 18.0
359	35932.3	1520.0	496.3	32.0 / 18.0
361	36112.1	1520.0	496.5	9.5 / 10.0
363	36326.1	1520.0	500.0	60.0 / 70.0
368	36774.9	1520.0	500.2	90.1 / 61.9
Mountain Creek Tributary 1				
003	258.0	459.0	408.7 ¹	23.0 / 45.0
004	393.0	459.0	410.5	25.0 / 9.0
006	614.0	459.0	415.0	47.0 / 3.0
008	772.0	459.0	417.7	37.0 / 3.0
009	909.0	435.0	420.9	10.4 / 19.6
011	1096.0	435.0	427.5	28.4 / 40.6
014	1393.0	435.0	436.8	34.4 / 29.6

Table 17 – Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Mountain Creek Tributary 1				
016	1561.0	435.0	439.5	15.0 / 15.0
016	1631.0	435.0	442.0	15.0 / 15.0
018	1817.0	435.0	442.5	51.4 / 29.6
021	2053.0	435.0	446.3	12.4 / 14.6
024	2354.0	435.0	450.7	75.4 / 8.6
026	2641.0	435.0	454.0	15.4 / 19.6
030	2959.0	435.0	460.8	12.4 / 19.6
033	3264.0	435.0	465.1	20.4 / 29.6
035	3480.0	435.0	468.2	30.4 / 14.0
036	3636.0	189.0	469.7	16.0 / 11.0
038	3826.0	189.0	472.4	15.0 / 10.0
040	3950.0	189.0	475.7	15.0 / 10.0
Mountain Creek Tributary 2				
000	35.0	437.0	440.1	16.0 / 14.0
001	79.0	437.0	440.7	18.0 / 4.0
004	407.0	437.0	447.8	8.0 / 19.0
006	598.0	437.0	450.5	3.5 / 28.0
006	627.0	280.0	450.8	2.5 / 2.5
007	715.0	280.0	453.6	10.0 / 3.0
008	782.0	280.0	455.1	26.0 / 3.0
009	922.0	280.0	457.8	7.0 / 14.0
011	1141.0	280.0	463.7	5.0 / 34.0
013	1344.0	280.0	467.2	16.0 / 7.0
015	1526.0	280.0	470.3	7.0 / 7.0
017	1722.0	280.0	474.6	7.0 / 10.0
019	1919.0	280.0	480.5	16.0 / 9.0
022	2151.0	280.0	486.8	6.0 / 12.0
024	2434.0	209.0	492.5	5.0 / 55.0
026	2587.0	209.0	498.5	5.0 / 10.0
Mountain Creek Tributary 2A				
000	20.0	146.0	452.0 ¹	4.0 / 2.8
001	70.0	146.0	452.0 ¹	4.0 / 3.0
001	97.0	146.0	453.3	16.0 / 21.0
002	159.0	146.0	454.4	9.5 / 5.0
002	202.0	146.0	457.0	20.0 / 15.0
003	293.0	146.0	459.1	21.0 / 20.0
004	428.0	146.0	462.3	12.0 / 5.0
006	562.0	146.0	465.1	5.0 / 11.0
007	724.0	146.0	468.6	11.0 / 5.0
008	771.0	146.0	470.0	4.0 / 4.0
008	813.0	146.0	471.6	5.5 / 14.5
009	866.0	146.0	472.9	12.0 / 12.0
010	964.0	146.0	474.3	10.0 / 4.0
010	1020.0	146.0	475.2	6.0 / 9.0

Table 17 – Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Mountain Creek Tributary 2A				
012	1156.0	146.0	476.9	9.0 / 9.0
013	1312.0	146.0	484.2	13.0 / 18.0
014	1447.0	54.0	488.5	2.0 / 2.0
Mountain Creek Tributary 3				
001	102.0	245.0	443.9 ¹	11.0 / 13.0
002	159.0	245.0	444.7	19.0 / 5.0
002	204.0	245.0	445.8	10.0 / 10.0
002	249.0	245.0	447.9	10.0 / 10.0
003	261.0	245.0	448.0	19.0 / 5.0
003	296.0	245.0	448.3	15.0 / 5.0
004	389.0	245.0	451.7	5.0 / 15.0
005	495.0	245.0	454.2	20.0 / 5.0
007	681.0	245.0	458.2	15.0 / 5.0
009	880.0	245.0	462.4	5.0 / 20.0
011	1101.0	245.0	466.0	25.0 / 5.0
013	1287.0	245.0	469.3	2.0 / 20.0
015	1466.0	124.0	472.4	26.0 / 9.0
016	1630.0	124.0	475.6	8.0 / 5.0
018	1797.0	124.0	479.7	8.0 / 3.0
020	1961.0	124.0	484.6	11.9 / 5.1
021	2108.0	124.0	488.1	18.2 / 9.8
022	2242.0	124.0	495.7	10.1 / 9.9
024	2389.0	124.0	504.4	11.8 / 4.7
026	2558.0	124.0	512.3	19.5 / 19.0
027	2717.0	35.6	516.5	1.9 / 1.9
Mountain Creek Tributary 4				
001	124.0	603.0	460.1 ¹	40.0 / 13.0
003	280.0	603.0	460.1 ¹	32.4 / 18.0
006	597.0	603.0	460.1 ¹	34.0 / 22.0
007	733.0	603.0	460.5	28.0 / 15.5
011	1142.0	603.0	463.1	31.0 / 41.9
014	1402.0	603.0	465.3	33.8 / 7.5
016	1644.0	240.0	467.4	32.6 / 29.0
020	1960.0	240.0	471.8	20.0 / 5.0
022	2178.0	240.0	474.9	20.0 / 10.0
024	2380.0	240.0	477.3	10.9 / 16.0
027	2672.0	240.0	484.1	78.1 / 76.9
027	2745.0	240.0	484.1	103.7 / 101.4
030	2991.0	240.0	485.3	97.0 / 5.0
032	3242.0	240.0	490.6	5.0 / 14.0
035	3524.0	240.0	495.7	14.0 / 5.0
038	3791.0	240.0	503.3	5.0 / 5.0
040	4031.0	30.9	508.7	5.0 / 5.0

Table 17 – Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Mountain Creek Tributary 4A				
001	85.0	324.0	466.1	15.0 / 33.0
003	257.0	324.0	468.4	7.0 / 31.0
006	556.0	324.0	474.8	3.0 / 37.0
008	779.0	324.0	479.5	7.0 / 29.0
010	1049.0	324.0	483.0	31.0 / 10.0
012	1235.0	324.0	484.8	42.0 / 5.0
015	1505.0	324.0	487.5	5.0 / 41.0
018	1816.0	324.0	490.5	3.0 / 50.0
021	2109.0	324.0	493.5	83.0 / 5.0
024	2446.0	324.0	499.8	3.0 / 27.0
028	2768.0	324.0	505.1	38.0 / 12.0
031	3093.0	66.4	505.5	20.0 / 43.0
Mountain Creek Tributary 5				
002	245.0	422.0	460.2 ¹	66.0 / 15.0
008	798.0	422.0	462.1	4.0 / 42.0
011	1097.0	422.0	465.7	13.0 / 11.0
013	1343.0	422.0	468.6	35.0 / 18.0
017	1721.0	422.0	472.4	19.0 / 10.0
019	1852.0	422.0	474.0	12.0 / 13.0
020	1956.0	290.0	475.1	32.0 / 45.0
021	2082.0	290.0	476.0	10.0 / 20.0
022	2169.0	290.0	476.4	10.0 / 20.0
023	2304.0	290.0	478.0	24.0 / 9.0
025	2516.0	202.0	480.3	18.0 / 10.0
026	2552.0	202.0	480.7	9.1 / 8.9
026	2591.0	202.0	481.2	7.0 / 8.0
026	2604.0	202.0	481.6	12.0 / 12.0
027	2661.0	202.0	482.7	15.0 / 10.0
028	2762.0	202.0	485.0	7.0 / 7.0
029	2892.0	202.0	488.3	16.0 / 9.0
030	3000.0	202.0	490.1	4.0 / 4.0
031	3090.0	202.0	493.1	4.0 / 11.0
033	3293.0	78.1	497.0	9.1 / 8.9
034	3374.0	78.1	500.5	9.1 / 8.9
035	3548.0	78.1	502.0	2.5 / 2.5
038	3838.0	78.1	512.7	32.0 / 33.0
New Hope Creek				
040	4000.0	15700.0	237.8 ¹	127.0 / 2400.8
060	6000.0	15700.0	237.8 ¹	349.1 / 3296.9
072	7154.8	15700.0	237.8 ¹	743.1 / 2692.3
080	8000.0	15700.0	237.8 ¹	1154.0 / 536.8
090	9000.0	15700.0	237.8 ¹	894.0 / 123.3
100	10000.0	15700.0	237.8 ¹	1100.0 / 60.1
109	10940.0	15700.0	237.8 ¹	1229.2 / 142.5

Table 17 – Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
New Hope Creek				
115	11500.0	15700.0	237.8'	1299.0 / 160.0
123	12300.6	16500.0	237.8'	700.0 / 201.2
129	12866.9	16500.0	237.8'	79.0 / 70.0
129	12906.9	16500.0	237.8'	79.0 / 80.0
135	13500.0	16500.0	237.8'	704.1 / 680.0
140	14000.0	16500.0	237.8'	1310.1 / 930.0
145	14500.0	16500.0	237.8'	1457.0 / 553.3
150	15000.0	16500.0	237.8'	1448.3 / 419.5
155	15500.0	16500.0	237.8'	1718.7 / 707.5
160	16000.0	16500.0	237.8'	1944.1 / 925.1
165	16500.0	16500.0	237.8'	1832.1 / 1196.5
170	17000.0	16600.0	237.8'	2024.1 / 969.6
175	17500.0	16600.0	237.8'	1979.3 / 1166.4
180	17977.0	16600.0	237.8'	1441.1 / 1253.4
187	18659.2	16600.0	237.8'	1053.8 / 1675.8
202	20194.5	16600.0	237.8'	1664.6 / 929.2
205	20500.0	16600.0	237.8'	1685.1 / 863.1
210	21000.0	16600.0	237.8'	1578.1 / 752.5
215	21500.0	16600.0	237.8'	1735.9 / 658.5
220	22000.0	16600.0	237.8'	1452.9 / 850.1
225	22500.0	16600.0	237.8'	1613.7 / 463.8
230	23000.0	16600.0	237.8'	587.7 / 635.1
235	23500.0	16600.0	237.8'	543.3 / 658.4
242	24232.7	16600.0	237.8'	1056.0 / 732.3
249	24851.5	16600.0	237.8'	189.0 / 173.0
250	24993.5	16600.0	238.9	429.0 / 190.0
255	25500.0	16600.0	239.0	1497.5 / 768.7
264	26418.6	12100.0	239.1	2531.0 / 231.8
268	26818.8	12100.0	239.1	2369.8 / 127.1
283	28266.2	12100.0	239.2	1670.1 / 179.4
290	29000.0	12100.0	239.3	1175.2 / 616.2
308	30820.7	12100.0	239.6	570.0 / 1190.0
318	31811.5	12100.0	239.8	260.0 / 1290.0
327	32653.1	12100.0	240.1	919.5 / 410.0
339	33856.4	12400.0	240.7	290.0 / 250.1
342	34194.3	12400.0	240.8	88.0 / 87.0
343	34257.3	12400.0	242.3	88.0 / 87.0
345	34500.0	12400.0	244.3	499.2 / 564.0
350	35000.0	12400.0	244.4	130.9 / 1857.4
354	35396.6	12400.0	244.5	515.5 / 1853.4
360	36000.0	12400.0	244.5	327.2 / 2060.0
365	36500.0	12400.0	244.6	560.1 / 1660.7
370	37000.0	12400.0	244.7	547.1 / 1466.9
376	37640.6	12400.0	244.8	431.4 / 1232.4

Table 17 – Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
New Hope Creek				
383	38287.9	12400.0	244.9	588.5 / 665.2
391	39100.6	12400.0	245.3	140.4 / 1001.1
399	39900.0	13400.0	245.6	776.0 / 1021.8
409	40859.6	13400.0	245.9	796.9 / 113.1
420	42000.0	13400.0	246.8	831.6 / 240.8
427	42670.8	13400.0	247.2	75.6 / 847.5
434	43438.0	13400.0	247.7	372.9 / 545.3
440	44015.9	13400.0	248.1	556.3 / 456.2
445	44548.7	13400.0	248.5	1078.8 / 283.1
463	46262.7	14500.0	249.1	899.5 / 801.0
470	47000.0	14500.0	249.4	458.9 / 890.5
North Fork Little River Tributary 2				
003	301.0	1430.0	476.9 ¹	39.0 / 44.0
006	600.0	1430.0	476.9 ¹	25.0 / 57.3
009	900.0	1430.0	480.5	80.0 / 50.0
012	1200.0	1430.0	483.8	80.0 / 50.0
015	1500.0	1430.0	488.1	35.0 / 35.0
017	1720.0	1430.0	490.9	35.0 / 68.0
021	2100.0	1430.0	495.3	90.0 / 30.0
024	2419.0	578.0	500.8	40.0 / 10.0
027	2701.0	578.0	504.1	43.8 / 17.0
031	3121.0	578.0	509.4	35.0 / 33.1
Northeast Creek				
225	22518.2	9060.0	239.3	462.0 / 568.0
233	23320.0	9060.0	239.5	850.0 / 287.0
241	24074.2	8840.0	239.6	1050.0 / 378.0
Northeast Creek Tributary 2				
003	294.3	1240.0	286.2 ¹	41.6 / 135.3
007	654.8	1240.0	286.3	20.1 / 130.0
010	1000.0	1240.0	287.7	37.9 / 143.4
016	1622.4	1240.0	290.3	38.9 / 123.5
021	2050.7	1240.0	293.6	26.1 / 110.1
027	2709.8	1240.0	297.3	45.0 / 90.0
034	3363.2	1240.0	301.9	15.0 / 60.0
039	3871.5	1240.0	306.9	19.9 / 40.1
045	4500.0	1240.0	311.8	14.9 / 30.5
Panther Creek				
047	4686.3	7799.0	265.5 ¹	499.0 / 285.0
053	5262.2	7799.0	265.5 ¹	499.0 / 72.0
060	6046.3	7799.0	265.5 ¹	212.0 / 316.0
067	6737.0	7356.0	265.5 ¹	321.0 / 159.0
077	7674.8	7356.0	265.5 ¹	276.0 / 130.0
087	8705.6	7356.0	265.5 ¹	337.0 / 233.0
092	9172.9	7356.0	265.5 ¹	288.0 / 202.0

Table 17 – Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Panther Creek				
256	25593.6	1660.0	313.5	65.9 / 112.1
259	25865.8	1660.0	313.7	31.2 / 177.3
262	26197.2	1660.0	314.1	69.0 / 111.8
266	26577.2	1660.0	314.8	90.4 / 99.2
267	26736.6	1660.0	315.2	42.6 / 130.3
271	27058.4	1660.0	316.0	14.0 / 105.6
274	27359.8	1660.0	317.8	14.0 / 140.8
277	27710.9	1660.0	319.0	29.9 / 24.9
278	27775.9	1060.0	320.1	29.9 / 24.9
284	28361.4	1060.0	322.6	60.0 / 35.0
287	28680.9	1060.0	325.6	59.9 / 13.9
290	28984.7	1060.0	327.2	42.3 / 10.0
292	29228.6	1060.0	328.6	44.7 / 14.0
296	29572.2	793.0	329.8	14.0 / 14.0
299	29941.8	793.0	331.6	14.0 / 14.0
302	30247.4	793.0	335.0	8.5 / 9.0
305	30515.8	793.0	340.0	14.0 / 20.4
308	30754.8	793.0	340.6	7.0 / 10.0
Panther Creek Tributary 1				
001	145.0	722.0	314.8	25.0 / 45.0
004	433.0	524.0	317.3	30.1 / 24.9
007	719.0	524.0	319.2	53.1 / 38.9
009	928.0	524.0	320.9	20.1 / 14.9
011	1103.0	524.0	324.3	15.1 / 14.9
013	1264.0	524.0	332.0	15.1 / 7.9
014	1427.0	524.0	338.8	10.1 / 4.9
017	1657.0	524.0	344.6	26.1 / 28.9
018	1787.0	524.0	347.0	24.1 / 11.9
018	1833.0	284.0	348.2	28.0 / 43.0
021	2069.0	284.0	359.8	147.7 / 142.4
023	2253.0	284.0	359.9	120.1 / 119.9
025	2480.0	284.0	360.5	81.3 / 75.9
028	2789.0	284.0	363.0	12.0 / 15.0
032	3192.0	284.0	368.5	6.0 / 40.0
Panther Creek Tributary 2				
001	64.0	198.0	316.2	13.0 / 15.0
002	180.0	198.0	317.2	12.0 / 12.0
004	354.0	198.0	319.3	11.0 / 9.0
005	489.0	198.0	321.9	5.0 / 5.0
007	682.0	198.0	325.4	8.0 / 5.0
008	767.0	198.0	326.7	5.0 / 5.0
009	882.0	198.0	329.9	5.0 / 5.0
010	1036.0	198.0	332.6	16.0 / 7.0
013	1344.0	198.0	337.9	5.0 / 10.0

Table 17 – Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Panther Creek Tributary 2				
016	1569.0	198.0	341.3	11.0 / 11.0
019	1854.0	198.0	349.6	9.0 / 4.0
021	2078.0	198.0	361.8	7.0 / 13.0
Rocky Branch				
006	603.3	2790.0	265.5 ¹	15.1 / 352.6
013	1292.0	2790.0	268.0	52.4 / 136.1
019	1869.4	2790.0	271.0	20.1 / 201.0
023	2286.4	2790.0	272.8	18.4 / 209.2
031	3054.9	2790.0	274.7	221.4 / 88.8
036	3551.0	2790.0	275.5	155.8 / 18.7
041	4116.6	3040.0	279.0	193.8 / 63.6
046	4582.7	3040.0	281.2	218.0 / 30.9
052	5179.8	3040.0	283.6	283.3 / 12.8
058	5840.1	3040.0	286.5	223.8 / 55.9
064	6420.0	3040.0	289.8	232.1 / 53.7
068	6818.3	3040.0	291.7	24.1 / 22.9
069	6896.3	2830.0	294.3	100.1 / 200.0
073	7343.4	2830.0	294.9	50.1 / 164.6
078	7759.4	2830.0	296.7	171.4 / 12.8
081	8061.6	2830.0	297.8	207.1 / 16.4
088	8815.5	2830.0	300.4	137.9 / 161.5
089	8855.5	2780.0	300.5	137.9 / 161.5
095	9514.3	2780.0	304.5	74.2 / 70.1
Rocky Branch (near Falls Lake)				
063	6296.0	1710.0	265.5 ¹	75.6 / 34.4
073	7326.5	1710.0	265.5 ¹	174.2 / 16.0
082	8219.3	1710.0	269.1	17.2 / 16.7
083	8299.3	1720.0	273.3	18.0 / 23.0
090	8974.1	1720.0	274.0	50.0 / 35.0
095	9523.2	1720.0	276.6	50.0 / 125.0
098	9845.8	1720.0	277.5	14.0 / 32.0
102	10239.8	1720.0	281.1	65.0 / 65.0
107	10673.7	1720.0	282.0	70.0 / 120.0
112	11184.8	1720.0	282.7	42.0 / 15.0
116	11606.1	592.0	286.0	60.0 / 25.0
120	12008.9	592.0	286.3	7.0 / 6.0
126	12610.4	592.0	292.2	10.0 / 10.0
131	13065.6	592.0	296.5	11.0 / 26.0
134	13405.7	592.0	307.0	35.0 / 10.0
139	13874.6	592.0	327.0	5.0 / 40.6
139	13915.6	458.0	328.0	4.7 / 27.0
152	15205.7	458.0	332.3	80.0 / 70.0
Rocky Branch Tributary 1				
000	49.0	697.4	300.4 ¹	5.0 / 47.0

Table 17 – Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Rocky Branch Tributary 1				
001	73.0	697.4	300.4 ¹	23.0 / 25.0
001	143.0	697.4	300.4 ¹	11.0 / 20.0
004	357.0	697.4	303.8	15.0 / 50.0
007	668.0	697.4	307.4	17.0 / 30.0
010	971.0	697.4	311.5	22.0 / 25.0
013	1349.0	697.4	318.0	17.0 / 5.0
017	1668.0	697.4	321.7	24.0 / 8.0
018	1850.0	697.4	323.5	30.0 / 25.0
Rocky Creek (Into Flat River)				
043	4343.3	1433.0	346.6 ¹	46.4 / 9.0
049	4916.2	1433.0	346.6 ¹	9.0 / 47.6
053	5262.7	1433.0	349.9	26.4 / 12.7
057	5747.9	1433.0	356.3	21.3 / 30.1
065	6500.0	1433.0	362.4	67.8 / 9.0
070	7036.1	1433.0	365.2	46.8 / 19.5
075	7531.9	1433.0	367.7	31.1 / 11.2
080	7969.6	1433.0	369.8	74.7 / 13.6
085	8549.8	1433.0	371.6	9.0 / 116.3
090	8976.2	1433.0	372.8	21.9 / 34.1
096	9641.8	1433.0	375.8	113.3 / 8.9
101	10147.2	1433.0	378.1	51.7 / 25.3
106	10594.0	1433.0	380.4	76.1 / 8.9
111	11117.7	1433.0	383.0	10.9 / 31.1
116	11635.2	1433.0	387.4	16.4 / 14.7
119	11903.8	1433.0	389.9	13.5 / 37.3
120	11983.8	1433.0	394.6	13.5 / 37.3
124	12384.5	1433.0	394.7	18.5 / 155.6
127	12701.4	1433.0	394.9	54.2 / 51.6
131	13100.3	1433.0	395.4	115.7 / 9.2
135	13538.3	1433.0	396.4	40.5 / 61.6
141	14079.6	1433.0	397.8	22.4 / 77.4
146	14624.1	1144.0	399.1	22.7 / 128.1
153	15286.3	1144.0	400.8	7.8 / 112.0
158	15800.8	1144.0	403.3	7.8 / 122.2
160	15954.8	1144.0	403.6	14.0 / 14.0
160	15999.8	1144.0	404.7	14.0 / 14.0
162	16215.8	1144.0	405.5	87.9 / 62.0
166	16589.1	1144.0	406.3	32.9 / 32.6
173	17290.9	1144.0	409.7	105.3 / 7.8
177	17676.5	746.0	411.1	22.0 / 39.9
181	18099.5	746.0	412.6	9.0 / 38.4
184	18438.6	746.0	413.8	9.0 / 9.0
186	18601.4	746.0	415.0	18.1 / 18.3
186	18646.4	746.0	415.4	18.1 / 18.3

Table 17 – Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Rocky Creek (Into Flat River)				
190	18968.9	746.0	417.2	7.1 / 110.0
197	19729.9	746.0	422.4	52.6 / 8.9
200	20031.2	746.0	423.8	67.0 / 9.0
Rocky Creek Tributary 1				
002	231.0	433.0	402.1	8.5 / 14.8
006	627.0	433.0	407.8	31.1 / 15.7
010	956.0	433.0	411.1	24.8 / 80.0
013	1289.0	433.0	414.6	13.9 / 9.6
017	1660.0	433.0	418.8	23.1 / 19.8
019	1899.0	433.0	422.6	7.6 / 17.9
023	2257.0	433.0	426.7	17.5 / 18.4
026	2569.0	364.0	428.6	29.1 / 9.7
028	2814.0	364.0	438.4	29.1 / 9.7
031	3117.0	364.0	438.7	9.8 / 19.8
037	3698.0	208.0	443.3	14.0 / 15.4
039	3894.0	208.0	452.1	14.0 / 15.4
044	4376.0	208.0	453.7	5.0 / 35.0
Rocky Creek Tributary 2				
000	46.0	107.0	407.5 ¹	5.0 / 5.0
002	164.0	107.0	409.2	12.0 / 6.0
002	245.0	107.0	411.2	4.0 / 5.0
003	335.0	107.0	413.9	4.0 / 5.0
005	459.0	107.0	417.3	4.0 / 9.0
006	552.0	107.0	419.0	4.0 / 5.0
008	759.0	107.0	424.3	4.0 / 8.0
008	810.0	107.0	425.3	6.0 / 10.0
009	858.0	107.0	426.6	4.0 / 12.0
010	998.0	107.0	429.9	4.0 / 5.0
012	1161.0	74.0	432.6	15.0 / 11.0
014	1449.0	74.0	437.5	4.0 / 4.0
015	1527.0	74.0	440.2	4.0 / 7.0
019	1875.0	74.0	444.8	4.0 / 7.0
Sevenmile Creek Tributary 1				
002	243.0	1620.0	465.9	36.0 / 38.0
005	472.0	1620.0	469.1	59.0 / 30.0
006	614.0	1620.0	470.5	20.0 / 15.0
008	811.0	1620.0	481.9	23.0 / 25.0
009	936.0	1620.0	482.0	32.0 / 22.0
012	1171.0	1620.0	482.6	10.0 / 25.0
014	1412.0	1620.0	485.8	28.1 / 34.9
016	1635.0	1620.0	489.2	42.0 / 37.0
019	1943.0	1410.0	493.1	47.0 / 9.0
022	2195.0	1410.0	495.8	45.0 / 54.0
025	2540.0	1410.0	501.4	33.0 / 21.0

Table 17 – Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Sevenmile Creek Tributary 1				
028	2777.0	1410.0	506.3	46.0 / 35.0
030	2950.0	1410.0	510.9	33.0 / 18.0
031	3128.0	1410.0	516.1	34.0 / 33.0
033	3327.0	1410.0	521.7	32.0 / 10.0
036	3568.0	1410.0	527.0	32.0 / 32.0
038	3805.0	1410.0	530.3	47.0 / 28.0
040	4015.0	1410.0	532.1	114.0 / 30.0
044	4389.0	1410.0	535.7	39.0 / 14.0
047	4679.0	866.0	538.2	69.0 / 55.0
048	4844.0	866.0	540.2	30.0 / 30.0
050	5046.0	866.0	553.1	100.0 / 40.0
052	5223.0	866.0	553.1	65.0 / 60.0
056	5605.0	866.0	553.5	48.1 / 29.9
059	5919.0	866.0	556.5	8.0 / 42.0
062	6198.0	866.0	562.6	52.0 / 19.0
066	6635.0	866.0	571.2	44.0 / 5.0
069	6895.0	866.0	575.1	39.0 / 32.0
072	7206.0	297.0	581.5	5.0 / 23.0
076	7591.0	297.0	590.1	7.0 / 41.0
079	7887.0	297.0	596.1	16.0 / 24.0
Southwest Creek Tributary 1				
002	177.0	586.0	256.2'	16.0 / 11.0
004	369.0	586.0	257.4	81.0 / 86.0
007	746.0	586.0	261.4	25.0 / 19.0
011	1124.0	577.0	267.6	10.0 / 10.0
012	1216.0	577.0	271.1	32.0 / 31.5
016	1588.0	577.0	273.4	9.0 / 28.0
020	1969.0	577.0	278.4	30.0 / 23.0
025	2469.0	577.0	284.0	20.0 / 16.0
Stirrup Iron Creek				
205	20513.0	4830.0	325.9	299.1 / 299.1
214	21398.0	4830.0	325.9	151.8 / 150.8
219	21904.0	4830.0	325.9	228.6 / 228.4
227	22657.0	4580.0	325.9	132.7 / 132.7
238	23819.0	4580.0	325.9	134.0 / 130.0
239	23919.0	4580.0	328.4	30.0 / 30.0
250	25023.0	4580.0	328.4	125.0 / 125.1
267	26741.0	4850.0	328.4	150.1 / 110.0
276	27601.0	3320.0	328.4	249.9 / 59.1
291	29089.0	3320.0	328.5	150.1 / 74.9
303	30257.0	3320.0	328.5	140.0 / 150.0
306	30627.0	3320.0	328.5	210.1 / 155.0
307	30714.0	3320.0	328.5	209.9 / 150.2

Table 17 – Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Stirrup Iron Creek Tributary B				
054	5423.0	1070.0	349.2	81.6 / 26.4
060	6025.0	1070.0	349.3	6.7 / 7.4
063	6295.0	1070.0	350.6	75.0 / 95.0
068	6796.9	1070.0	350.9	75.0 / 30.0
073	7298.4	1070.0	353.3	70.0 / 40.0
079	7922.9	714.0	355.3	70.0 / 40.0
084	8424.6	714.0	356.6	23.0 / 32.0
086	8576.6	714.0	358.6	25.0 / 32.0
093	9300.9	714.0	359.9	105.0 / 7.9
099	9887.2	714.0	362.3	50.0 / 9.0
099	9945.2	272.0	362.6	50.0 / 10.0
101	10085.0	272.0	362.7	20.0 / 16.8
102	10181.4	272.0	363.4	4.6 / 6.0
102	10241.4	272.0	367.4	9.0 / 10.0
107	10666.8	272.0	367.7	6.2 / 7.6
110	10994.2	272.0	371.6	14.0 / 14.0
113	11257.7	272.0	372.9	7.1 / 7.4
113	11340.7	272.0	377.6	20.0 / 15.0
119	11883.9	272.0	377.5	4.0 / 4.6
122	12172.8	272.0	383.6	30.0 / 10.0
122	12247.8	272.0	388.4	35.0 / 45.0
127	12714.5	272.0	387.8	11.2 / 8.8
Stirrup Iron Creek Tributary B-1				
001	140.0	328.0	360.4	16.0 / 5.0
005	531.0	328.0	361.9	12.0 / 40.0
006	607.0	328.0	361.8	8.0 / 40.0
007	710.0	328.0	362.9	13.0 / 12.0
009	907.0	328.0	366.2	15.0 / 20.0
010	960.0	328.0	367.6	20.0 / 14.0
012	1197.0	189.0	369.3	20.0 / 6.0
014	1430.0	189.0	369.7	40.0 / 6.0
016	1632.0	189.0	371.3	10.0 / 30.0
019	1913.0	189.0	375.0	5.0 / 25.0
021	2147.0	189.0	377.5	33.0 / 20.0
024	2388.0	189.0	381.5	7.0 / 6.0
Stirrup Iron Creek Tributary C				
006	623.4	2120.0	328.41	12.6 / 260.0
011	1109.2	2120.0	328.41	99.9 / 230.0
Stirrup Iron Creek Tributary D				
015	1536.9	1040.0	328.41	19.3 / 55.1
022	2188.8	1040.0	328.41	59.2 / 38.0
029	2858.3	1040.0	328.41	16.9 / 35.3
035	3503.5	1040.0	331.9	17.4 / 7.8
041	4064.9	1040.0	337.3	12.3 / 28.8

Table 17 – Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Stirrup Iron Creek Tributary D				
043	4324.8	1040.0	339.5	20.0 / 20.0
044	4404.8	1040.0	351.1	20.0 / 20.0
053	5294.5	1040.0	350.7	14.0 / 20.0
059	5908.0	1040.0	359.0	10.0 / 10.1
Tributary to Stirrup Iron Creek Tributary A				
022	2238.0	295.0	370.5	21.0 / 45.0
028	2788.0	295.0	377.8	3.0 / 5.0
033	3330.0	295.0	382.5	9.0 / 37.0
036	3622.0	295.0	384.3	4.0 / 26.0
042	4190.0	151.0	393.4	4.0 / 7.0

¹Elevation includes backwater effects

²Flooding controlled by Flat River

5.3 Coastal Analyses

This section is not applicable to this FIS project.

Table 18, "Summary of Coastal Analyses" does not apply to Durham County.

Table 19, "Tide Gage Analysis Specifics" is not applicable in Durham County.

Table 20, "Coastal Transect Parameters" is not applicable in Durham County.

Figure 5, "Coastal Transect Locator Map" is not applicable in Durham County.

6.0 Mapping Methods

6.1 Vertical and Horizontal Control

Vertical Datum

All FISs 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. With the finalization of the North American Vertical Datum of 1988 (NAVD 88), all North Carolina FISs have been prepared using NAVD 88 as the referenced vertical datum.

All flood elevations shown on the FIRM for Durham County are referenced to NAVD 88. Structure and ground elevations in the county must, therefore, be referenced to NAVD 88. It is important to note that FISs for adjacent communities in neighboring states may be referenced to NGVD 29. This may result in BFE differences across political boundaries between the communities.

As noted above, the elevations shown in this FIS are referenced to NAVD 88. Ground, structure, and flood elevations may be compared and/or referenced to NGVD 29 by applying a standard conversion factor. The conversion factor for Durham County is # feet. The locations used to establish the conversion factor were USGS quadrangle corners that fell within the county, as well as those that were within 2.5 miles outside the county. The benchmarks are referenced to NAVD 88. Table 21, "Datum Conversion Locations and Values," is shown below.

Table 21, "Datum Conversion Locations and Values."

Table 21 - Datum Conversion Locations and Values

Latitude	Longitude	Conversion from NGVD29 to NAVD88 (feet)
36.12	-78.88	-0.89
36.12	-78.88	-0.89
36.12	-78.88	-0.89
36.00	-78.88	-0.82
36.00	-78.88	-0.82
36.00	-78.88	-0.82
36.00	-78.75	-0.81
36.00	-78.75	-0.81
36.00	-78.75	-0.81
35.87	-78.88	-0.83
35.87	-78.88	-0.83
35.87	-78.88	-0.83
35.88	-79.00	-0.82
35.88	-79.00	-0.82
35.88	-79.00	-0.82
Average conversion in Durham County from NGVD 29 to NAVD 88 = -0.83 feet		

The vertical datum conversion factor for all flooding sources which run along a county boundary are in accordance with the conversion factor used in those contiguous counties.

BFEs shown on the FIRM represent whole-foot rounded values. For example, a 1% annual chance water-surface elevation of 102.4 feet will appear as 102 on the FIRM and 102.6 feet will appear as 103. Therefore, users who wish to convert the elevations in this FIS to NGVD 29 should apply the stated conversion factor(s) to elevations shown on the Flood Profiles and/or Water-surface elevation rasters and supporting data tables in the FIS Report, which are shown, at a minimum, to the nearest 0.1 foot.

For more information on NAVD 88, see Converting the National Flood Insurance Program to the North American Vertical Datum of 1988, or contact the Vertical Network Branch, National Geodetic Survey, Coast and Geodetic Survey, National Oceanic and Atmospheric Administration, Rockville, Maryland 20910 (<http://www.ngs.noaa.gov>).

Vertical Control Monuments

Qualifying bench marks within Durham County that are cataloged by the National Geodetic Survey (NGS) and entered into the National Spatial Reference System (NSRS) as First or Second Order Vertical, with a vertical stability classification of A, B, or C, are shown and labeled on the FIRM with their 6-character NSRS Permanent Identifier (PID).

The National Geodetic Survey establishes precisely located monuments on the North Carolina Grid System and Bench Marks referenced to a vertical datum (NGVD 1929 and NAVD 1988).

Bench marks cataloged by the NGS and entered into the NSRS vary widely in vertical stability classification. NSRS vertical stability classifications are as follows:

- Stability A: Monuments of the most reliable nature, expected to hold position/elevation well (e.g., mounted in bedrock)
- Stability B: Monuments which generally hold their position/elevation well (e.g., concrete bridge abutment)
- Stability C: Monuments which may be affected by surface ground movements (e.g., concrete monument below frost line)
- Stability D: Mark of questionable or unknown vertical stability (e.g., concrete monument above frost line, or steel witness post)

Monuments with a Stability D classification may be used as Elevation Reference Marks (ERMs) when a Stability C or better monument is not an option. These ERMs must be approved by NCGS and can be set and used as elevation bench marks to establish vertical control and produce NC DFIRMs. Including such ERMs will greatly augment North Carolina's useable vertical control network.

In addition, when local jurisdictions have established their own vertical monument network, these monuments may also be shown on the FIRM with the appropriate designations. Local monuments will be placed on the FIRM if the community has requested that they be included and if the monuments meet the aforementioned criteria.

North Carolina Geodetic Survey (NCGS) and contractor surveyed vertical control monuments will be shown on the FIRM panels. Those cataloged by NCGS meet similar requirements to the NGS monuments as described above. Most monuments that have been cataloged by NCGS have been established to NGS standards, but have not been submitted to NGS for inclusion into the NSRS. The qualifying criteria for depicting bench marks established by the State's contractors on the new digital FIRM panels include:

- GPS surveying of permanent 3-D survey monuments to 5-centimeter or better local network accuracy guidelines, in accordance with NOAA Technical Memorandum NOS NGS-58 "Guidelines for Establishing GPS-Derived Ellipsoid Heights (Standards: 2 cm and 5 cm)," and conversion to NAVD 88 orthometric heights using NGS' latest geoid mode;
- Requiring a stability classification of "C" or better; and
- Submitting GPS files and station descriptions to NCGS.

To obtain current information for cataloging local bench marks in the NSRS, please visit the Data Sheet page of the NGS website at <https://geodesy.noaa.gov/datasheets/>, or contact the NGS Information Services Branch at:

**Communications and Outreach Branch
NOAA, N/NGS12
National Geodetic Survey
SSMC3 #8716
1315 East-West Highway
Silver Spring, MD 20910-3282
(301) 713-3242**

Information regarding the NCGS or State contractor bench marks can be obtained through the NCGS website at www.ncgs.state.nc.us, or by phone at (919) 733-3836.

It is important to note that temporary vertical monuments, sometimes called Elevation Reference Marks, 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, interested individuals may contact FEMA to access this information.

Horizontal Datum and Control

The digital files that comprise the FIRM are georeferenced to an established coordinate system. The coordinate system used for the production of this FIRM is North Carolina State Plane (FIPSZONE 3200) referenced to the North American Datum of 1983 (NAD83), GRS80 ellipsoid.

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.

The projection used in the preparation of this map was the North Carolina State Plane Coordinate System. The horizontal datum was NAD83, GRS80 spheroid. Differences in datum, spheroid, or projection used in the production of FIRMs for adjacent states may result in slight positional differences in map features across the state boundary. These differences do not affect the accuracy of this FIRM.

As part of the North Carolina CTS Initiative, North Carolina digital FIRM panel numbers are consistent with the North Carolina Land Records Management Program (LRMP).

The 11-digit digital FIRM panel numbering system for North Carolina is: SS MM LLLL PP X, where SS = State Federal Information Processing Code (37); MM = Easting-Northing (EN) 1,000,000-foot coordinates; LLLL = LRMP map numbers to include the EN 100,000-foot coordinates, and the EN 10,000-foot coordinates; PP = place holders for additional EN 1,000-foot coordinates; and X = suffix ("J" for the initial edition). North Carolina's State Plane Coordinate System origin is outside the State boundary to the southwest (in Georgia), the eastings range from approximately 0,404,000 (Tennessee border) to 3,040,000 (Atlantic Ocean); and the northings range from approximately 0,045,000 (South Carolina border) to 1,043,000 (Virginia border). Digital FIRM panels were compiled at either 1"=1,000', covering an area of 20,000 feet x 20,000 feet (20" x 20" panels); or at 1"=500', covering an area of 10,000 feet x 10,000 feet (20" x 20" panels). An additional 2 digits (both zeros) are held in reserve as a "place holder" in the event that future FIRMs are printed at a larger scale; e.g., 1"=250', covering an area of 5,000 feet x 5,000 feet for which the 1,000-foot coordinates would either be 0 or 5.

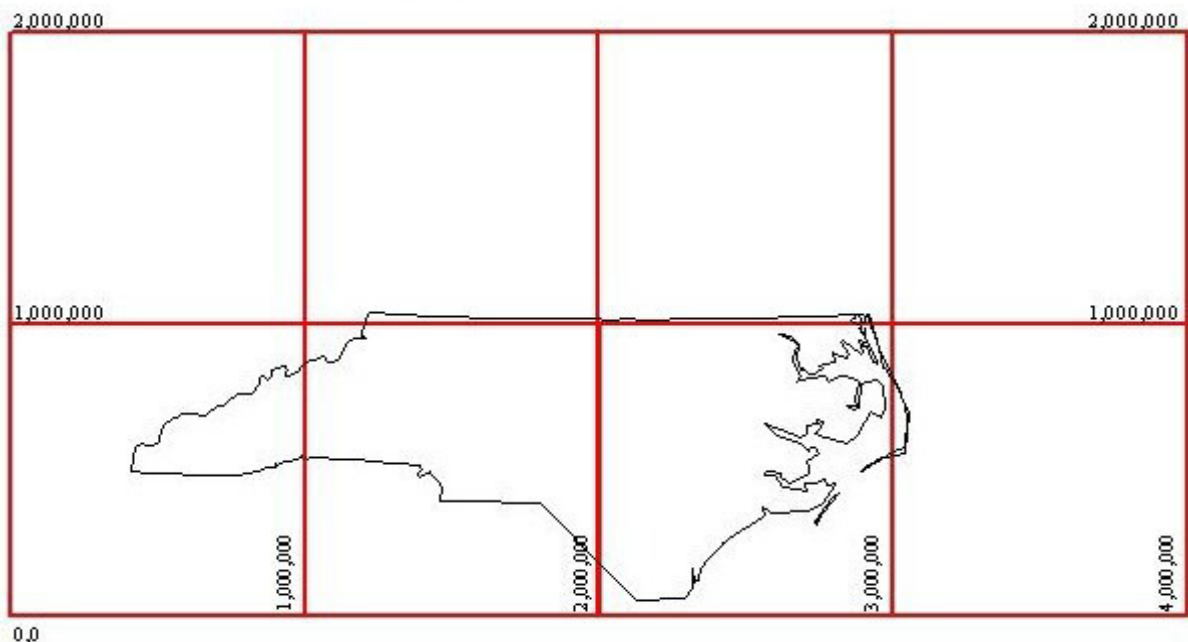


Figure 6 - North Carolina's State Plane Coordinate System

6.3 Floodplain and Floodway Delineation

Floodplain Boundaries

For streams restudied by detailed and limited detailed methods, the 1% and 0.2% annual chance floodplains were delineated using flood elevations determined at each cross section. Between cross sections, the boundaries were interpolated using topographic data acquired using airborne Light Detection and Ranging (LIDAR).

The topographic data satisfies a vertical root-mean-square error (RMSE) accuracy standard of 20 cm (1.3 feet accuracy at the 95% confidence limit) for the Outer Banks and 25 cm (1.6 feet accuracy at the 95% confidence limit) for those portions of the basin lying west of the Outer Banks. These data could be contoured at roughly a 2-foot vertical contour interval. All elevations were referenced to the NAVD 88 and reflect orthometric heights. Variably spaced, bare-earth digital topographic data in ASCII point file format were combined with imagery (either flown concurrently with the LIDAR data or using existing digital orthophotos) to establish a Triangulated Irregular Network (TIN) of digital elevation points, which include selected breaklines to be used for hydraulic modeling. Furthermore, a uniformly spaced sampling of the TIN resulted in uniformly spaced Digital Elevation Models (DEMs), with 20 ft x 20 ft post spacing, which was generated in multiple file formats.

The 1% annual chance floodplain boundary corresponds to the boundary of the areas of special flood hazards (Zones VE, AO, AH, A99, AR, A, and AE), and the 0.2% annual chance floodplain boundary corresponds to the boundary of areas of moderate flood hazards. In cases where the 1% and 0.2% annual chance floodplain boundaries are close together, only the 1% annual chance floodplain boundaries have been shown.

Floodway Delineation

The floodways presented in this FIS 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. The results of the floodway computations are tabulated for selected cross sections (Table 22, "Floodway Data"). The computed floodway is shown on the FIRM. In cases where the floodway and 1% annual chance floodplain boundaries are either close together or collinear, only the floodway boundary is shown. In areas where the top of the bridge or road is higher than the 1.0-percent annual chance (100-year) flood, the FIRM will show the flood discharge as contained within the structure for emergency management purposes. It is important to note that FEMA and community floodway regulations still apply in and around those areas.

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Basin 18, Stream 13									
079	7,869	46.0	449.0	4.0	321.2	*	321.2	322.1	0.9
080	8,029	61.0	539.0	5.1	323.2	*	323.2	342.2	1.0
085	8,493	120.0	694.0	4.7	324.2	*	324.2	325.2	1.0
091	9,081	70.0	292.0	9.0	325.5	*	325.5	326.0	0.5
Burdens Creek									
004	408	1300.0	5189.0	0.9	248.71	245.9	245.5	246.5	1.0
025	2,473	595.0	4460.0	1.0	251.3	251.6	251.3	252.3	1.0
038	3,782	650.0	8518.0	0.5	259.8	260.2	259.8	260.5	0.7
042	4,194	600.0	7483.0	0.6	259.8	260.2	259.8	260.5	0.7
046	4,599	425.0	4978.0	0.9	259.9	260.2	259.9	260.6	0.7
051	5,072	470.0	5019.0	0.9	260.0	260.3	260.0	260.7	0.7
058	5,800	365.0	3246.0	1.3	260.1	260.4	260.1	260.9	0.8
068	6,760	539.0	4475.0	1.0	261.0	261.3	261.0	261.9	0.9
083	8,326	230.0	2018.0	1.5	265.2	265.8	265.2	266.1	0.9
090	8,962	335.0	2358.0	1.3	265.5	266.1	265.5	266.5	1.0
094	9,424	560.0	3329.0	0.9	265.8	266.3	265.8	266.8	1.0
099	9,923	325.0	1709.0	1.7	267.0	267.3	267.0	267.7	0.7
008	10,811	350.0	1755.0	1.1	268.3	268.6	268.3	268.8	0.5
113	11,284	230.0	960.0	2.0	268.9	269.1	268.9	269.3	0.4
117	11,709	220.0	897.0	2.2	270.2	270.4	270.2	270.5	0.3
123	12,285	47.0	394.0	5.0	276.1	276.2	276.1	276.7	0.6
126	12,566	120.0	1017.0	1.2	277.6	278.0	277.6	278.4	0.8
128	12,814	107.0	758.0	1.5	277.9	278.3	277.9	278.8	0.9
132	13,180	161.0	984.0	1.2	278.2	278.6	278.2	279.2	1.0
139	13,893	269.0	5063.0	0.2	298.7	299.0	298.7	299.7	1.0
141	14,052	499.0	9641.0	0.1	298.7	299.0	298.7	299.7	1.0
144	14,370	501.0	8437.0	0.1	298.7	299.0	298.7	299.7	1.0
147	14,748	299.0	4890.0	0.2	298.7	299.0	298.7	299.7	1.0
154	15,392	215.0	2583.0	0.4	298.8	299.0	298.8	299.7	0.9
157	15,744	230.0	2295.0	0.5	298.8	299.0	298.8	299.7	0.9
161	16,131	306.0	2610.0	0.4	298.8	299.1	298.8	299.8	1.0
165	16,481	252.0	1658.0	0.7	298.8	299.1	298.8	299.8	1.0
174	17,410	130.0	504.0	2.3	303.4	303.6	303.4	304.3	0.9
179	17,937	189.0	1826.0	0.7	312.1	312.3	312.1	313.1	1.0
182	18,206	153.0	1316.0	0.9	312.2	312.3	312.2	313.1	0.9
Burdens Creek Tributary									
004	411	111.0	413.0	3.7	264.5 ¹	*	262.6	263.6	1.0
010	957	109.0	619.0	2.7	264.51	262.3	262.2	263.2	1.0
012	1,216	95.0	406.0	4.5	264.5 ¹	263.2	263.1	263.8	0.7
024	2,362	175.0	1206.0	1.5	270.3	270.5	270.3	271.1	0.8
035	3,527	170.0	1970.0	0.9	283.2	283.5	283.2	283.2	0.0

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Burdens Creek Tributary									
039	3,938	95.0	922.0	2.0	283.2	283.6	283.2	283.2	0.0
Burdens Creek Tributary 4									
001	148	44.0	181.0	6.3	277.6 ¹	275.7	275.2	276.2	1.0
003	341	44.0	293.0	3.9	279.0	279.3	279.0	280.0	1.0
006	560	44.0	218.0	5.3	279.2	279.5	279.2	280.2	1.0
007	716	35.0	163.0	7.1	279.8	280.3	279.8	280.5	0.7
009	945	44.0	156.0	7.4	281.6	282.2	281.6	281.7	0.1
012	1,232	44.0	383.0	3.0	286.7	287.2	286.7	287.7	1.0
015	1,463	150.0	1007.0	1.1	286.9	287.4	286.9	287.9	1.0
016	1,582	37.0	293.0	3.9	286.9	287.4	286.9	287.9	1.0
023	2,313	40.0	237.0	4.7	294.5	294.8	294.5	295.4	0.9
031	3,135	19.0	112.0	10.0	303.5	304.0	303.5	303.6	0.1
036	3,554	60.0	213.0	5.3	307.7	308.0	307.7	308.4	0.7
038	3,756	65.0	287.0	3.9	309.9	310.4	309.9	310.8	0.9
043	4,328	30.0	196.0	5.7	315.3	315.3	315.3	316.1	0.8
049	4,929	25.0	198.0	1.8	321.4	321.6	321.4	322.4	1.0
052	5,174	15.0	42.0	8.4	322.7	322.9	322.7	323.5	0.8
055	5,465	20.0	73.0	4.8	325.6	325.8	325.6	326.5	0.9
062	6,167	358.0	1489.0	0.1	344.6	344.6	344.6	344.6	0.0
065	6,469	20.0	30.0	5.1	345.6	345.6	345.6	345.8	0.2
Cabin Branch									
022	2,218	388.0	1308.0	2.4	272.0 ¹	272.9	268.4	269.1	0.7
033	3,289	423.0	1947.0	1.6	272.0 ¹	272.9	271.8	272.6	0.8
047	4,737	350.0	1832.0	1.7	275.3	275.9	275.3	276.0	0.7
063	6,266	190.0	927.0	2.7	279.1	279.6	279.1	279.5	0.4
080	7,960	255.0	855.0	2.8	284.0	284.4	284.0	284.9	0.9
087	8,738	48.0	249.0	9.7	297.2	297.8	297.2	297.2	0.0
093	9,341	148.0	1044.0	2.3	315.0	316.0	315.0	315.0	0.0
108	10,811	255.0	1054.0	1.7	317.4	318.1	317.4	318.3	0.9
115	11,496	135.0	851.0	2.1	322.2	322.5	322.2	322.8	0.6
129	12,853	83.0	295.0	6.1	325.3	325.9	325.3	325.3	0.0
143	14,273	81.0	384.0	4.7	338.5	339.1	338.5	338.8	0.3
152	15,154	70.0	310.0	5.3	348.5	349.2	348.5	348.6	0.1
160	16,000	74.0	390.0	4.2	357.5	358.1	357.5	358.3	0.8
167	16,681	46.0	260.0	6.3	364.4	364.9	364.4	364.9	0.5
174	17,415	55.0	198.0	5.1	373.0	373.4	373.0	373.2	0.2
179	17,889	59.0	190.0	5.3	376.9	377.2	376.9	377.1	0.2
187	18,727	80.0	301.0	3.4	387.0	387.4	387.0	387.1	0.1
191	19,079	59.0	144.0	1.4	389.6	389.9	389.6	389.7	0.1
196	19,566	73.0	74.0	2.7	401.6	401.7	401.6	401.6	0.0
199	19,896	204.0	651.0	0.3	414.7	414.8	414.7	414.7	0.0
206	20,604	189.0	497.0	0.4	434.5	434.5	434.5	434.5	0.0

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Chunky Pipe Creek									
005	494	725.0	3195.0	1.6	266.5 ¹	266.8	263.0	264.0	1.0
011	1,081	687.0	3565.0	1.4	266.5 ¹	266.8	265.2	266.2	1.0
017	1,677	400.0	2263.0	2.3	267.6	267.8	267.6	268.6	1.0
024	2,368	580.0	3036.0	0.9	269.5	269.6	269.5	270.4	0.9
034	3,363	450.0	1363.0	2.0	271.8	271.9	271.8	272.2	0.4
039	3,854	505.0	2195.0	1.3	273.5	273.6	273.5	274.1	0.6
044	4,366	390.0	1745.0	1.6	274.5	274.6	274.5	275.0	0.5
049	4,859	330.0	1041.0	2.7	276.2	276.3	276.2	276.6	0.4
054	5,448	292.0	1298.0	2.1	280.5	280.6	280.5	281.5	1.0
062	6,164	330.0	1712.0	1.6	283.1	283.2	283.1	284.1	1.0
067	6,665	209.0	983.0	2.5	284.5	284.6	284.5	285.5	1.0
072	7,161	305.0	1318.0	1.9	286.4	286.6	286.4	287.4	1.0
077	7,673	185.0	991.0	2.5	288.0	288.2	288.0	289.0	1.0
081	8,146	200.0	902.0	2.7	290.3	290.5	290.3	290.8	0.5
087	8,667	280.0	1032.0	2.4	292.6	292.8	292.6	292.8	0.2
092	9,158	125.0	637.0	3.8	294.2	294.3	294.2	294.4	0.2
096	9,576	125.0	622.0	3.9	295.6	295.8	295.6	296.2	0.6
100	10,026	125.0	499.0	3.9	297.9	298.1	297.9	298.6	0.7
104	10,423	120.0	620.0	3.1	299.9	300.2	299.9	300.9	1.0
108	10,849	95.0	435.0	4.5	301.9	302.1	301.9	302.4	0.5
113	11,290	83.0	371.0	5.2	306.7	307.0	306.7	306.7	0.0
119	11,851	110.0	746.0	2.6	309.9	310.2	309.9	310.8	0.9
122	12,219	100.0	633.0	3.1	311.2	311.5	311.2	312.2	1.0
Chunky Pipe Creek Tributary 1									
037	3,668	80.0	177.0	4.3	275.8	276.8	275.8	276.0	0.2
045	4,455	80.0	259.0	2.9	280.1	280.0	280.1	280.2	0.1
052	5,236	80.0	315.0	2.3	283.6	283.6	283.6	284.0	0.4
Crooked Creek									
006	636	80.0	579.0	8.9	296.1 ¹	*	291.5	291.5	0.0
010	985	75.0	507.0	10.1	299.0	*	299.0	299.0	0.0
016	1,599	161.0	1047.0	4.9	307.7	*	307.7	307.7	0.0
020	2,037	200.0	1803.0	2.9	310.6	*	310.6	310.6	0.0
029	2,867	540.0	4018.0	1.3	311.7	*	311.7	312.0	0.3
036	3,635	285.0	1863.0	2.8	312.7	*	312.7	313.2	0.5
040	3,950	125.0	624.0	8.2	312.9	*	312.9	313.1	0.2
046	4,552	170.0	809.0	6.0	319.7	*	319.7	319.7	0.0
051	5,052	130.0	699.0	6.9	326.1	*	326.1	326.2	0.1
057	5,657	135.0	792.0	6.1	332.7	*	332.7	333.5	0.8
061	6,063	114.0	682.0	7.1	338.1	*	338.1	338.2	0.1
066	6,552	97.0	640.0	7.6	344.0	*	344.0	345.0	1.0
070	6,983	108.0	893.0	5.4	349.6	*	349.6	350.5	0.9

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Crooked Creek									
074	7,384	108.0	1101.0	4.1	354.7	*	354.7	355.2	0.5
080	7,961	140.0	757.0	6.0	357.3	*	357.3	358.3	1.0
083	8,311	130.0	925.0	4.9	362.0	*	362.0	362.2	0.2
091	9,054	100.0	686.0	6.6	368.8	*	368.8	369.6	0.8
096	9,554	125.0	865.0	5.3	376.4	*	376.4	376.4	0.0
100	10,046	130.0	896.0	5.1	380.2	*	380.2	380.8	0.6
106	10,574	78.0	607.0	7.5	384.3	*	384.3	385.3	1.0
111	11,078	75.0	622.0	7.3	389.4	*	389.4	390.3	0.9
115	11,513	95.0	576.0	5.5	394.7	*	394.7	394.8	0.1
120	11,952	75.0	447.0	7.2	397.8	*	397.8	398.3	0.5
125	12,453	90.0	607.0	5.3	403.7	*	403.7	403.7	0.0
129	12,912	76.0	449.0	7.1	406.9	*	406.9	406.9	0.0
135	13,453	66.0	402.0	8.0	411.7	*	411.7	412.0	0.3
140	13,953	128.0	848.0	3.8	415.9	*	415.9	416.9	1.0
147	14,682	192.0	1469.0	2.2	422.9	*	422.9	423.7	0.8
152	15,227	115.0	756.0	3.8	423.8	*	423.8	424.6	0.8
159	15,893	113.0	823.0	3.5	430.9	*	430.9	431.9	1.0
164	16,392	110.0	671.0	4.3	433.3	*	433.3	434.2	0.9
170	16,965	125.0	964.0	3.0	440.1	*	440.1	440.7	0.6
174	17,378	140.0	909.0	3.2	441.2	*	441.2	442.2	1.0
185	18,465	170.0	1051.0	2.0	447.9	*	447.9	448.5	0.6
188	18,835	160.0	965.0	2.2	448.4	*	448.4	449.0	0.6
194	19,438	184.0	1793.0	1.2	454.4	*	454.4	454.8	0.4
203	20,314	120.0	587.0	3.5	455.5	*	455.5	455.8	0.3
208	20,829	120.0	475.0	4.3	459.1	*	459.1	459.1	0.0
212	21,189	120.0	532.0	3.9	464.1	*	464.1	464.6	0.5
216	21,639	85.0	477.0	4.3	469.0	*	469.0	469.6	0.6
Crooked Creek Tributary 1									
011	1,095	100.0	536.0	2.9	465.8	*	465.8	466.3	0.5
018	1,816	109.0	1285.0	0.9	481.7	*	481.7	481.9	0.2
025	2,469	54.0	129.0	8.9	488.2	*	488.2	488.2	0.0
030	2,985	65.0	198.0	5.8	499.4	*	499.4	499.5	0.1
035	3,483	75.0	251.0	4.6	505.9	*	505.9	506.0	0.1
040	3,979	40.0	202.0	5.7	509.7	*	509.7	509.8	0.1
047	4,664	60.0	419.0	2.7	519.9	*	519.9	520.8	0.9
053	5,262	22.0	110.0	10.4	527.0	*	527.0	527.7	0.7
061	6,082	20.0	95.0	12.1	547.8	*	547.8	547.9	0.1
068	6,850	72.0	447.0	2.6	565.7	*	565.7	566.2	0.5
076	7,647	60.0	416.0	2.7	569.6	*	569.6	570.5	0.9
084	8,361	32.0	119.0	6.1	570.5	*	570.5	571.4	0.9
088	8,850	20.0	88.0	8.3	576.0	*	576.0	576.0	0.0

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Crooked Creek Tributary 1									
098	9,830	34.0	169.0	4.3	582.3	*	582.3	583.1	0.8
107	10,692	28.0	145.0	5.0	592.0	*	592.0	592.6	0.6
112	11,230	28.0	115.0	6.4	595.5	*	595.5	595.9	0.4
Ellerbe Creek									
000	8	1050.0	5590.0	2.0	266.5 ¹	264.2	263.9	264.4	0.5
011	1,127	905.0	5183.0	2.2	266.5 ¹	265.4	265.1	265.8	0.7
033	3,270	365.0	3704.0	3.1	271.4	272.1	271.4	271.6	0.2
052	5,230	824.0	8083.0	1.4	272.9	273.6	272.9	273.4	0.5
074	7,448	711.0	5507.0	2.1	273.9	274.6	273.9	274.6	0.7
095	9,497	845.0	5156.0	2.2	275.7	276.3	275.7	276.6	0.9
112	11,166	313.0	2740.0	4.2	279.1	279.7	279.1	279.5	0.4
133	13,260	930.0	9087.0	1.3	282.2	282.8	282.2	283.0	0.8
159	15,933	1215.0	6842.0	1.7	284.2	284.8	284.2	285.0	0.8
182	18,201	877.0	4908.0	2.4	286.6	287.1	286.6	287.1	0.5
232	23,191	755.0	4932.0	1.8	294.4	294.6	294.4	295.1	0.7
264	26,389	510.0	4413.0	1.9	300.5	300.8	300.5	301.1	0.6
284	28,360	330.0	2581.0	3.3	303.3	303.8	303.3	303.8	0.5
295	29,456	345.0	2617.0	3.3	306.0	306.5	306.0	306.9	0.9
305	30,530	210.0	2221.0	2.0	308.4	308.9	308.4	309.0	0.6
322	32,186	430.0	3591.0	1.2	308.7	309.2	308.7	309.5	0.8
328	32,777	344.0	2645.0	1.6	309.0	309.4	309.0	309.8	0.8
338	33,774	406.0	2801.0	1.6	310.2	310.6	310.2	310.7	0.5
350	35,006	417.0	2215.0	2.0	311.4	311.8	311.4	312.0	0.6
362	36,165	130.0	983.0	4.2	316.3	316.6	316.3	317.0	0.7
372	37,201	27.0	259.0	15.5	318.0	318.4	318.0	318.3	0.3
381	38,070	85.0	551.0	7.3	327.2	328.0	327.2	327.2	0.0
387	38,651	110.0	1133.0	3.6	333.7	334.0	333.7	334.0	0.3
395	39,467	140.0	1214.0	3.3	338.7	339.2	338.7	339.1	0.4
401	40,115	276.0	1868.0	2.1	339.6	340.0	339.6	340.4	0.8
414	41,440	249.0	1340.0	2.9	343.3	343.6	343.3	344.0	0.7
421	42,075	175.0	1076.0	3.6	345.7	346.0	345.7	346.2	0.5
429	42,914	173.0	1208.0	3.0	347.8	348.1	347.8	348.8	1.0
436	43,598	165.0	1161.0	3.1	350.6	350.9	350.6	350.8	0.2
446	44,557	180.0	1442.0	2.5	353.2	353.4	353.2	353.4	0.2
451	45,133	332.0	1705.0	2.0	353.6	353.8	353.6	354.5	0.9
464	46,373	388.0	2143.0	1.6	354.6	354.9	354.6	355.5	0.9
477	47,734	327.0	1685.0	1.8	356.2	356.5	356.2	357.2	1.0
486	48,631	259.0	1274.0	2.4	358.2	358.5	358.2	358.7	0.5
499	49,941	303.0	1847.0	1.7	361.7	362.0	361.7	362.5	0.8
510	51,002	274.0	1443.0	2.1	363.0	363.3	363.0	363.7	0.7
517	51,737	150.0	863.0	2.2	365.8	365.9	365.8	366.6	0.8
526	52,624	204.0	860.0	2.2	366.9	367.1	366.9	367.8	0.9

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Ellerbe Creek									
532	53,185	50.0	323.0	5.4	369.2	369.4	369.2	369.5	0.3
538	53,846	190.0	1001.0	1.7	374.8	375.3	374.8	374.8	0.0
548	54,785	39.0	378.0	4.6	379.2	380.6	379.2	379.2	0.0
555	55,473	49.0	461.0	3.2	380.3	381.2	380.3	380.8	0.5
565	56,503	135.0	345.0	4.2	386.4	386.6	386.4	386.8	0.4
568	56,817	92.0	392.0	3.6	413.5	413.4	413.5	414.0	0.5
571	57,104	143.0	1239.0	1.1	414.0	414.1	414.0	414.4	0.4
Ellerbe Creek Tributary A									
016	1,645	60.0	284.0	3.5	299.7 ¹	299.9	298.5	299.0	0.5
019	1,932	75.0	322.0	3.1	300.2	300.4	300.2	301.2	1.0
026	2,609	80.0	589.0	1.7	305.8	306.2	305.8	306.7	0.9
031	3,113	150.0	737.0	1.4	306.3	306.7	306.3	307.2	0.9
Ellerbe Creek Tributary B									
008	798	131.0	373.0	3.2	288.1	288.5	288.1	289.0	0.9
013	1,307	69.0	273.0	4.4	294.2	294.4	294.2	294.6	0.4
018	1,808	120.0	518.0	2.3	295.7	296.0	295.7	296.7	1.0
025	2,507	44.0	233.0	4.6	300.7	300.9	300.7	301.6	0.9
Eno River									
290	29,020	319.0	4893.0	3.7	277.0	*	277.0	278.0	1.0
294	29,427	351.0	5642.0	3.2	277.4	*	277.4	278.3	0.9
301	30,146	303.0	4762.0	3.8	277.8	*	277.8	278.6	0.8
305	30,508	205.0	3716.0	4.8	277.9	*	277.9	278.7	0.8
310	30,986	195.0	3597.0	5.0	278.1	*	278.1	279.0	0.9
316	31,593	166.0	3327.0	5.4	278.5	*	278.5	279.3	0.8
321	32,146	158.0	3433.0	5.2	278.8	*	278.8	279.6	0.8
330	33,049	193.0	3818.0	4.7	279.2	*	279.2	280.1	0.9
335	33,511	207.0	3555.0	5.0	279.2	*	279.2	280.1	0.9
340	33,998	196.0	3657.0	4.9	279.7	*	279.7	280.5	0.8
343	34,280	261.0	4843.0	3.7	280.3	*	280.3	281.2	0.9
349	34,860	225.0	4211.0	4.3	280.5	*	280.5	281.4	0.9
355	35,493	228.0	4220.0	4.3	280.9	*	280.9	281.8	0.9
361	36,096	198.0	3926.0	4.6	281.4	*	281.4	282.3	0.9
365	36,507	260.0	4709.0	3.8	281.7	*	281.7	282.6	0.9
370	37,040	217.0	3960.0	4.5	281.9	*	281.9	282.8	0.9
375	37,498	275.0	4895.0	3.7	282.4	*	282.4	283.3	0.9
382	38,211	739.0	12271.0	1.5	282.9	*	282.9	283.9	1.0
419	41,917	614.0	6903.0	2.5	283.2	*	283.2	284.2	1.0
425	42,467	528.0	5938.0	2.9	283.4	*	283.4	284.3	0.9
431	43,071	294.0	4119.0	4.2	283.6	*	283.6	284.6	1.0
444	44,421	258.0	4009.0	4.3	284.7	*	284.7	285.6	0.9
449	44,908	250.0	3852.0	4.5	285.0	*	285.0	285.9	0.9
453	45,332	227.0	3578.0	4.9	285.4	*	285.4	286.2	0.8

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Eno River									
458	45,832	242.0	3442.0	5.1	285.7	*	285.7	286.5	0.8
461	46,129	185.0	3171.0	5.5	286.0	*	286.0	286.8	0.8
466	46,629	219.0	3242.0	5.4	286.4	*	286.4	287.1	0.7
472	47,153	225.0	3449.0	5.0	287.2	*	287.2	287.9	0.7
476	47,616	685.0	7237.0	2.4	287.3	*	287.3	288.1	0.8
486	48,624	835.0	6534.0	2.7	288.4	*	288.4	289.2	0.8
493	49,282	915.0	6611.0	2.6	289.2	*	289.2	289.8	0.6
500	50,013	395.0	4576.0	4.1	289.9	*	289.9	290.6	0.7
506	50,628	150.0	2990.0	6.3	290.4	*	290.4	291.0	0.6
510	51,013	155.0	3061.0	6.2	290.7	*	290.7	291.2	0.5
517	51,734	247.0	4338.0	4.4	291.6	*	291.6	292.5	0.9
521	52,138	143.0	2998.0	6.3	291.8	*	291.8	292.7	0.9
527	52,719	183.0	3187.0	6.0	292.1	*	292.1	293.0	0.9
532	53,195	225.0	4043.0	4.7	292.9	*	292.9	293.8	0.9
536	53,597	215.0	3568.0	5.3	295.1	*	295.1	295.2	0.1
541	54,059	255.0	4671.0	4.1	296.0	*	296.0	296.6	0.6
547	54,721	230.0	3337.0	5.1	296.3	*	296.3	297.1	0.8
552	55,178	241.0	3202.0	5.3	296.6	*	296.6	297.3	0.7
556	55,595	425.0	4948.0	3.4	297.3	*	297.3	297.9	0.6
562	56,218	615.0	6046.0	2.7	298.2	*	298.2	298.7	0.5
567	56,675	735.0	7387.0	2.3	298.4	*	298.4	298.9	0.5
577	57,715	155.0	1343.0	12.4	298.4	*	298.4	298.9	0.5
582	58,220	165.0	2232.0	7.4	303.1	*	303.1	303.1	0.0
587	58,706	140.0	1882.0	8.8	303.6	*	303.6	303.7	0.1
592	59,216	135.0	1988.0	8.3	305.0	*	305.0	305.1	0.1
597	59,734	137.0	1838.0	9.0	305.6	*	305.6	305.8	0.2
602	60,230	137.0	1842.0	9.0	306.7	*	306.7	306.9	0.2
607	60,675	115.0	1759.0	9.4	307.8	*	307.8	307.8	0.0
612	61,247	125.0	1340.0	12.4	308.3	*	308.3	308.3	0.0
618	61,760	175.0	2201.0	7.5	312.4	*	312.4	312.8	0.4
624	62,399	192.0	2672.0	6.2	317.8	*	317.8	318.0	0.2
633	63,331	180.0	2598.0	6.4	319.0	*	319.0	319.4	0.4
637	63,734	117.0	1517.0	10.9	319.2	*	319.2	319.5	0.3
642	64,226	133.0	1642.0	10.1	320.9	*	320.9	321.3	0.4
649	64,906	140.0	1698.0	9.8	323.3	*	323.3	323.4	0.1
658	65,758	155.0	1884.0	8.8	325.3	*	325.3	325.6	0.3
663	66,262	154.0	2082.0	8.0	326.8	*	326.8	327.0	0.2
672	67,233	150.0	2124.0	7.8	328.4	*	328.4	328.6	0.2
678	67,765	165.0	2514.0	6.6	329.4	*	329.4	329.6	0.2
687	68,660	130.0	2046.0	8.1	330.6	*	330.6	330.8	0.2
692	69,184	160.0	2216.0	7.5	331.3	*	331.3	331.6	0.3
697	69,674	445.0	4484.0	3.7	333.1	*	333.1	333.3	0.2

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Eno River									
703	70,276	175.0	2160.0	7.7	333.1	*	333.1	333.3	0.2
711	71,136	190.0	1636.0	10.1	335.4	*	335.4	335.7	0.3
719	71,882	230.0	2413.0	6.9	339.9	*	339.9	339.9	0.0
724	72,427	235.0	2793.0	5.9	341.0	*	341.0	341.3	0.3
731	73,121	177.0	2248.0	7.4	342.0	*	342.0	342.6	0.6
735	73,523	167.0	2079.0	8.0	342.8	*	342.8	343.2	0.4
743	74,308	161.0	2119.0	7.7	344.6	*	344.6	344.8	0.2
749	74,853	175.0	1921.0	8.5	345.4	*	345.4	345.8	0.4
801	80,060	205.0	2380.0	6.9	358.4	*	358.4	358.6	0.2
806	80,592	208.0	3086.0	5.3	360.6	*	360.6	360.8	0.2
813	81,321	147.0	1841.0	8.9	361.4	*	361.4	361.5	0.1
818	81,825	128.0	1966.0	8.3	363.0	*	363.0	363.5	0.5
823	82,336	165.0	2147.0	7.6	364.1	*	364.1	364.6	0.5
829	82,856	210.0	2506.0	6.5	365.3	*	365.3	366.1	0.8
832	83,191	145.0	1960.0	8.3	366.2	*	366.2	366.8	0.6
832	83,191	145.0	1958.0	8.3	366.2	*	366.2	366.8	0.6
Eno River Tributary 1									
030	3,027	1100.0	5727.0	0.6	283.2 ¹	*	272.6	273.5	0.9
035	3,545	746.0	742.0	4.5	283.2 ¹	*	272.6	273.5	0.9
040	4,008	465.0	2108.0	1.6	283.2 ¹	*	275.1	276.1	1.0
047	4,651	610.0	2731.0	1.2	283.2 ¹	*	276.2	277.1	0.9
053	5,274	425.0	1516.0	2.2	283.2 ¹	*	277.4	278.3	0.9
060	6,013	370.0	1679.0	2.0	283.2 ¹	*	280.3	281.2	0.9
066	6,580	385.0	1781.0	1.9	283.2 ¹	*	281.8	282.7	0.9
071	7,116	300.0	1227.0	2.7	283.3	*	283.3	284.3	1.0
079	7,875	480.0	2987.0	1.1	287.4	*	287.4	288.2	0.8
085	8,519	435.0	2133.0	1.6	288.3	*	288.3	289.2	0.9
090	8,992	600.0	2670.0	1.3	289.4	*	289.4	290.2	0.8
095	9,502	360.0	1352.0	2.5	291.0	*	291.0	291.8	0.8
101	10,052	395.0	1934.0	1.7	293.7	*	293.7	294.6	0.9
104	10,417	320.0	1612.0	2.1	294.7	*	294.7	295.6	0.9
110	10,973	285.0	1110.0	2.8	296.5	*	296.5	297.4	0.9
114	11,392	205.0	965.0	3.2	299.0	*	299.0	299.9	0.9
121	12,061	225.0	1112.0	2.7	302.6	*	302.6	303.5	0.9
125	12,480	245.0	1311.0	2.3	304.7	*	304.7	305.5	0.8
130	13,009	150.0	672.0	2.7	306.8	*	306.8	307.6	0.8
135	13,541	120.0	497.0	3.6	310.4	*	310.4	310.8	0.4
138	13,776	120.0	934.0	1.9	315.5	*	315.5	316.1	0.6
142	14,171	110.0	695.0	2.6	316.2	*	316.2	317.0	0.8
147	14,665	60.0	412.0	4.3	321.1	*	321.1	321.4	0.3
153	15,280	60.0	292.0	6.1	330.0	*	330.0	330.7	0.7

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Eno River Tributary 3									
007	711	62.0	168.0	6.5	339.6	*	339.6	339.6	0.0
011	1,115	98.0	221.0	5.0	351.6	*	351.6	351.6	0.0
015	1,545	44.0	130.0	8.5	360.6	*	360.6	360.7	0.1
020	2,030	57.0	141.0	7.8	375.2	*	375.2	375.2	0.0
025	2,532	70.0	579.0	1.4	391.1	*	391.1	392.0	0.9
029	2,904	44.0	101.0	8.2	393.5	*	393.5	393.5	0.0
035	3,452	90.0	197.0	4.2	401.0	*	401.0	401.0	0.0
041	4,084	80.0	180.0	4.6	409.4	*	409.4	409.5	0.1
045	4,476	105.0	275.0	3.1	413.3	*	413.3	413.5	0.2
048	4,844	150.0	1234.0	0.7	422.3	*	422.3	422.3	0.0
052	5,170	150.0	737.0	1.1	422.4	*	422.4	422.4	0.0
056	5,629	56.0	151.0	5.6	423.5	*	423.5	423.9	0.4
063	6,295	85.0	412.0	2.1	434.2	*	434.2	434.5	0.3
070	6,995	296.0	3831.0	0.1	457.7	*	457.7	457.8	0.1
079	7,854	125.0	468.0	0.9	457.8	*	457.8	457.8	0.0
082	8,168	50.0	115.0	3.6	457.8	*	457.8	457.8	0.0
086	8,627	67.0	655.0	1.2	468.4	*	468.4	469.3	0.9
092	9,162	140.0	1640.0	0.5	475.5	*	475.5	476.4	0.9
101	10,114	30.0	143.0	5.5	476.4	*	476.4	477.3	0.9
113	11,319	52.0	305.0	3.5	491.0	*	491.0	491.8	0.8
118	11,766	35.0	180.0	6.0	494.2	*	494.2	495.0	0.8
123	12,291	42.0	240.0	3.5	507.2	*	507.2	507.9	0.7
127	12,737	35.0	135.0	6.3	510.2	*	510.2	511.2	1.0
140	14,005	76.0	463.0	1.8	524.4	*	524.4	524.5	0.1
Eno River Tributary A									
005	531	21.0	125.0	11.8	289.7 ¹		281.8	281.9	0.7
008	819	63.0	485.0	3.1	290.2		290.4	290.4	0.2
014	1,404	105.0	501.0	3.0	292.3		292.7	292.7	0.4
016	1,631	90.0	444.0	3.3	295.0		295.3	296.0	1.0
019	1,914	85.0	185.0	8.0	302.0		302.3	302.0	0.0
023	2,334	18.0	108.0	13.8	322.2		322.9	322.2	0.1
027	2,665	37.0	163.0	9.1	338.2		338.5	338.5	0.3
033	3,306	38.0	163.0	9.1	357.0		357.4	357.2	0.2
Eno River Tributary Z									
005	454	25.0	169.0	12.4	345.2	*	345.2	345.8	0.6
009	946	35.0	232.0	9.0	353.0	*	353.0	353.1	0.1
016	1,586	85.0	469.0	4.5	360.4	*	360.4	360.6	0.2
020	1,953	195.0	836.0	2.5	362.0	*	362.0	362.4	0.4
025	2,506	135.0	600.0	3.5	364.4	*	364.4	365.3	0.9
030	2,956	165.0	711.0	3.0	368.8	*	368.8	369.3	0.5
034	3,417	130.0	693.0	3.0	371.6	*	371.6	372.5	0.9
039	3,878	140.0	732.0	2.6	378.5	*	378.5	378.6	0.1

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Eno River Tributary Z									
044	4,405	105.0	333.0	5.8	383.6	*	383.6	383.6	0.0
048	4,837	79.0	309.0	6.2	390.4	*	390.4	391.0	0.6
053	5,333	75.0	270.0	7.1	398.2	*	398.2	398.3	0.1
058	5,760	105.0	399.0	4.8	406.0	*	406.0	406.0	0.0
063	6,281	62.0	245.0	2.9	413.9	*	413.9	414.1	0.2
069	6,880	17.0	66.0	10.9	419.5	*	419.5	419.5	0.0
074	7,367	57.0	144.0	5.0	427.2	*	427.2	427.2	0.0
079	7,904	73.0	194.0	3.7	433.3	*	433.3	433.4	0.1
083	8,340	65.0	178.0	4.0	438.9	*	438.9	438.9	0.0
086	8,640	97.0	280.0	2.6	442.4	*	442.4	442.4	0.0
090	8,951	95.0	409.0	0.6	448.3	*	448.3	448.3	0.0
094	9,374	44.0	58.0	4.1	449.5	*	449.5	449.6	0.1
098	9,847	55.0	94.0	2.5	456.3	*	456.3	456.3	0.0
103	10,251	41.0	64.0	3.7	461.3	*	461.3	461.3	0.0
107	10,688	22.0	76.0	3.1	467.6	*	467.6	468.2	0.6
117	11,705	85.0	412.0	0.6	486.2	*	486.2	486.2	0.0
Goose Creek									
007	725	64.0	735.0	9.2	292.9 ¹	291.3	291.1	292.1	1.0
015	1,540	566.0	4217.0	1.6	294.1	294.3	294.1	294.7	0.6
030	2,969	340.0	2377.0	2.9	295.7	295.8	295.7	296.4	0.7
036	3,579	600.0	4371.0	1.6	296.7	296.9	296.7	297.4	0.7
042	4,235	479.0	3220.0	2.1	297.3	297.4	297.3	297.9	0.6
056	5,613	395.0	2484.0	2.4	302.8	302.9	302.8	303.0	0.2
063	6,302	500.0	4960.0	1.2	305.5	305.6	305.5	305.8	0.3
069	6,906	217.0	2067.0	2.8	305.5	305.7	305.5	306.0	0.5
087	8,691	270.0	2799.0	0.9	314.1	314.8	314.1	314.5	0.4
090	9,019	300.0	2490.0	1.0	314.1	314.8	314.1	314.5	0.4
100	10,040	590.0	4712.0	0.5	314.2	314.9	314.2	314.8	0.6
105	10,496	610.0	3968.0	0.6	314.3	314.9	314.3	314.8	0.5
110	10,995	470.0	1249.0	1.9	314.4	315.1	314.4	314.9	0.5
114	11,436	385.0	1004.0	2.4	315.6	315.9	315.6	316.4	0.8
120	11,994	415.0	1333.0	1.8	317.6	317.8	317.6	318.1	0.5
125	12,494	300.0	881.0	2.8	318.7	318.9	318.7	319.4	0.7
135	13,494	245.0	1838.0	1.0	325.9	326.3	325.9	326.1	0.2
141	14,079	175.0	942.0	2.0	326.0	326.4	326.0	326.3	0.3
152	15,199	84.0	410.0	3.0	326.8	327.1	326.8	327.6	0.8
159	15,878	44.0	202.0	6.1	328.5	329.9	328.5	329.2	0.7
164	16,445	46.0	246.0	5.0	331.4	332.7	331.4	331.4	0.0
168	16,803	85.0	518.0	2.4	332.0	333.5	332.0	332.1	0.1
171	17,056	170.0	820.0	1.5	336.7	337.7	336.7	336.8	0.1
176	17,586	105.0	511.0	2.4	336.8	337.8	336.8	337.0	0.2
180	18,035	98.0	523.0	2.3	337.7	338.3	337.7	338.5	0.8

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Goose Creek									
184	18,444	54.0	241.0	5.1	338.2	339.1	338.2	338.9	0.7
Goose Creek Tributary A									
002	166	190.0	2593.0	0.8	313.8	318.7	313.8	314.8	1.0
013	1,278	335.0	2562.0	1.2	313.9	318.7	313.9	314.8	0.9
019	1,851	219.0	2329.0	1.3	314.3	318.8	314.3	315.3	1.0
024	2,381	245.0	1984.0	1.5	314.5	318.9	314.5	315.4	0.9
030	3,009	210.0	1085.0	2.8	314.6	319.0	314.6	315.6	1.0
034	3,381	150.0	758.0	4.0	315.3	319.2	315.3	316.2	0.9
039	3,854	310.0	1997.0	1.5	317.3	319.6	317.3	318.1	0.8
046	4,597	360.0	2264.0	1.4	318.2	320.1	318.2	318.9	0.7
052	5,221	210.0	1258.0	1.9	318.6	320.4	318.6	319.6	1.0
059	5,912	100.0	584.0	4.1	320.3	321.7	320.3	321.2	0.9
086	8,584	120.0	529.0	4.5	336.7	337.7	336.7	336.9	0.2
092	9,172	130.0	1111.0	2.2	339.2	340.4	339.2	340.1	0.9
Goose Creek Tributary A Divergence									
003	281	30.0	362.0	3.0	306.4	306.7	306.4	306.8	0.4
009	872	30.0	306.0	3.6	306.4	306.7	306.4	306.9	0.5
015	1,519	220.0	1239.0	0.9	313.5	313.9	313.5	313.5	0.0
Gum Creek									
023	2,274	175.0	724.0	2.5	237.8 ¹	229.8	226.5	226.6	0.1
029	2,872	305.0	1343.0	1.4	237.8 ¹	229.8	227.8	228.7	0.9
037	3,674	400.0	5914.0	0.3	241.3	241.4	241.3	242.1	0.8
050	4,971	325.0	3582.0	0.6	241.3	241.5	241.3	242.2	0.9
063	6,274	120.0	896.0	1.7	241.6	241.7	241.6	242.5	0.9
068	6,813	50.0	826.0	1.9	252.0	252.2	252.0	252.8	0.8
071	7,073	177.0	2495.0	0.6	253.0	253.5	253.0	253.9	0.9
079	7,852	522.0	4520.0	0.4	253.0	253.5	253.0	254.0	1.0
089	8,853	517.0	3697.0	0.5	253.1	253.6	253.1	254.1	1.0
094	9,380	303.0	1743.0	0.3	253.2	253.7	253.2	254.1	0.9
Kit Creek Tributary 1 (Basin 29, Stream 11)									
82	8,205	65.0	295.0	7.0	285.4	*	285.4	286.4	1.0
Knap of Reeds Creek									
128	12,765	1900.0	8120.0	4.0	266.5 ¹	*	255.7	256.2	0.5
151	15,061	1570.0	6574.0	4.3	266.5 ¹	*	257.1	257.8	0.7
176	17,594	1260.0	5951.0	4.4	266.5 ¹	*	259.4	260.0	0.6
196	19,565	1479.0	7189.0	4.0	266.5 ¹	*	260.9	261.7	0.8
223	22,263	1348.0	6459.0	4.1	266.5 ¹	*	262.9	263.8	0.9
247	24,681	1030.0	5303.0	4.6	266.5 ¹	*	265.5	266.1	0.6
263	26,265	1170.0	5217.0	4.2	266.8	*	266.8	267.5	0.7
Lick Creek									
244	24,406	411.0	2758.0	2.2	271.7	272.4	271.7	272.5	0.8
253	25,295	420.0	2481.0	2.6	273.0	273.7	273.0	273.9	0.9

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
265	26,535	425.0	2849.0	2.3	276.2	277.1	276.2	277.2	1.0
277	27,681	355.0	2078.0	3.0	278.4	279.3	278.4	279.1	0.7
288	28,796	644.0	5260.0	0.8	282.4	283.2	282.4	283.3	0.9
303	30,278	220.0	1325.0	3.0	282.9	283.6	282.9	283.5	0.6
314	31,431	210.0	1244.0	3.2	284.5	285.4	284.5	285.3	0.8
325	32,548	568.0	2559.0	1.5	287.2	287.8	287.2	287.7	0.5
339	33,860	448.0	2941.0	1.3	292.2	293.6	292.2	292.4	0.2
347	34,694	607.0	3963.0	1.0	292.8	294.1	292.8	292.9	0.1
368	36,751	460.0	2335.0	1.7	295.4	296.2	295.4	295.8	0.4
384	38,357	295.0	1410.0	1.4	298.4	299.1	298.4	299.0	0.6
389	38,860	292.0	1223.0	1.6	298.9	299.5	298.9	299.4	0.5
400	39,959	334.0	839.0	2.3	302.5	303.1	302.5	302.8	0.3
417	41,705	226.0	859.0	2.3	308.2	308.7	308.2	308.5	0.3
437	43,709	176.0	702.0	2.6	313.5	314.1	313.5	314.3	0.8
451	45,106	140.0	513.0	3.5	319.2	319.7	319.2	320.2	1.0
Lick Creek Tributary 1									
006	560	211.0	914.0	2.4	298.0	298.5	298.0	298.4	0.4
016	1,593	261.0	1396.0	1.6	302.6	303.1	302.6	302.9	0.3
031	3,090	248.0	1190.0	1.8	307.4	307.7	307.4	307.9	0.5
043	4,304	68.0	417.0	5.3	310.3	310.7	310.3	310.7	0.4
051	5,134	242.0	1067.0	2.2	313.0	313.5	313.0	313.8	0.8
053	5,333	156.0	595.0	3.9	313.9	314.3	313.9	314.6	0.7
057	5,674	53.0	235.0	3.0	316.2	316.5	316.2	317.2	1.0
67	6,700	18.0	113.0	6.3	323.7	324.5	323.7	323.8	0.1
071	7,100	40.0	197.0	2.1	332.2	*	332.2	333.2	1.0
075	7,513	16.0	82.0	8.7	330.2	330.9	330.2	330.3	0.1
Little Creek									
285	28,500	890.0	9167.0	1.0	248.7	*	248.7	249.6	0.9
Little Lick Creek									
181	18,100	540.0	3321.0	1.9	274.0	274.5	274.0	274.7	0.7
184	18,360	500.0	3359.0	1.9	274.7	275.0	274.7	275.5	0.8
192	19,190	650.0	3936.0	1.6	275.3	275.7	275.3	276.1	0.8
213	21,269	730.0	3066.0	1.5	276.8	277.3	276.8	277.5	0.7
228	22,752	904.0	4793.0	1.0	278.8	279.4	278.8	279.2	0.4
241	24,094	488.0	1676.0	2.7	280.3	280.8	280.3	280.6	0.3
254	25,428	869.0	3955.0	1.2	283.2	283.6	283.2	283.6	0.4
267	26,673	550.0	3074.0	1.5	285.5	285.9	285.5	286.0	0.5
284	28,418	332.0	2164.0	2.3	287.5	288.1	287.5	288.1	0.6
309	30,870	170.0	1038.0	3.7	292.5	292.9	292.5	292.6	0.1
323	32,310	344.0	1881.0	2.1	294.1	294.6	294.1	294.7	0.6
339	33,869	465.0	2605.0	1.5	296.3	296.8	296.3	296.8	0.5
357	35,680	200.0	520.0	3.3	298.8	299.1	298.8	299.3	0.5
363	36,268	125.0	494.0	3.5	300.9	301.3	300.9	301.3	0.4

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Little Lick Creek									
370	36,951	126.0	496.0	3.3	304.0	304.4	304.0	304.5	0.5
375	37,539	152.0	894.0	1.8	308.4	308.9	308.4	308.4	0.0
384	38,436	135.0	491.0	3.3	310.1	310.6	310.1	310.9	0.8
395	39,454	145.0	613.0	2.7	316.1	316.5	316.1	316.6	0.5
Little Lick Creek Tributary 1A									
005	476	254.0	1195.0	2.5	290.5 ¹	291.1	289.3	290.3	1.0
014	1,360	205.0	1173.0	2.6	294.2 ¹	294.9	293.1	295.1	2.0
018	1,845	185.0	1171.0	2.6	294.2	295.5	294.2	295.1	0.9
026	2,630	325.0	1533.0	2.0	296.6	297.2	296.6	297.5	0.9
037	3,744	200.0	1190.0	2.5	300.7	301.2	300.7	301.2	0.5
042	4,187	190.0	1021.0	3.0	302.0	302.6	302.0	302.5	0.5
048	4,841	90.0	491.0	6.2	303.3	303.8	303.3	304.1	0.8
052	5,241	80.0	481.0	6.3	304.9	305.5	304.9	305.8	0.9
056	5,605	121.0	614.0	4.9	306.6	307.2	306.6	307.5	0.9
058	5,825	130.0	540.0	5.6	307.9	308.4	307.9	308.8	0.9
064	6,354	150.0	1666.0	1.8	317.5	317.8	317.5	318.5	1.0
Little Lick Creek Tributary 1B									
011	1,114	150.0	625.0	3.0	276.2 ¹	276.2	275.3	276.2	0.9
017	1,728	160.0	836.0	2.5	277.4	277.6	277.4	278.3	0.9
021	2,127	190.0	1324.0	1.6	280.8	281.1	280.8	281.5	0.7
031	3,081	206.0	914.0	2.3	281.1	281.4	281.1	281.7	0.6
035	3,451	228.0	1171.0	1.4	282.0	282.3	282.0	282.5	0.5
040	3,956	284.0	1918.0	0.9	283.7	284.0	283.7	284.4	0.7
049	4,911	233.0	987.0	1.7	284.3	284.6	284.3	285.1	0.8
061	6,115	90.0	708.0	2.1	287.5	287.7	287.5	287.9	0.4
063	6,321	432.0	2654.0	0.6	301.2	302.7	301.2	301.2	0.0
073	7,281	541.0	4829.0	0.7	301.3	302.7	301.3	301.3	0.0
089	8,864	329.0	2592.0	1.2	301.4	302.8	301.4	301.4	0.0
097	9,744	240.0	2679.0	1.0	310.6	311.2	310.6	310.6	0.0
109	10,859	204.0	1490.0	1.8	310.8	311.5	310.8	311.0	0.2
116	11,639	140.0	985.0	2.7	313.4	314.0	313.4	314.1	0.7
120	11,983	240.0	1489.0	1.8	314.3	315.0	314.3	315.1	0.8
126	12,643	100.0	553.0	3.3	315.2	315.9	315.2	315.9	0.7
134	13,430	115.0	584.0	3.0	318.5	319.0	318.5	319.2	0.7
143	14,304	105.0	571.0	3.1	321.8	322.3	321.8	322.6	0.8
155	15,451	155.0	821.0	2.2	327.3	328.0	327.3	327.7	0.4
162	16,175	180.0	961.0	1.8	332.7	332.9	332.7	332.9	0.2
168	16,847	60.0	141.0	3.3	336.2	336.6	336.2	336.7	0.5
172	17,218	60.0	423.0	1.1	343.1	343.4	343.1	343.4	0.3
Little Lick Creek Tributary 1D									
005	503	48.0	175.0	6.4	305.4	305.5	305.4	305.9	0.5

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Little Lick Creek Tributary 1D									
010	983	86.0	547.0	2.1	313.9	314.1	313.9	314.4	0.5
017	1,719	134.0	805.0	1.3	314.7	314.9	314.7	315.3	0.6
020	2,036	162.0	1062.0	1.0	316.0	316.1	316.0	316.8	0.8
Little Lick Creek Tributary 2									
020	1,966	217.0	1119.0	2.3	301.7	302.3	301.7	302.6	0.9
032	3,167	295.0	1143.0	2.3	304.8	305.2	304.8	305.5	0.7
043	4,298	190.0	1083.0	2.4	309.9	310.4	309.9	310.9	1.0
053	5,276	137.0	736.0	3.4	312.8	313.4	312.8	313.3	0.5
Little River									
255	25,516	1353.0	5688.0	2.3	277.1	278.0	277.1	277.6	0.5
267	26,735	392.0	2803.0	4.8	280.7	282.5	280.7	280.9	0.2
277	27,665	170.0	2064.0	6.5	282.4	284.6	282.4	282.6	0.2
284	28,410	180.0	2867.0	4.7	284.2	286.3	284.2	284.3	0.1
288	28,772	490.0	7200.0	1.9	284.9	287.0	284.9	284.9	0.0
524	52,373	279.0	2712.0	4.9	363.7	364.8	363.7	363.8	0.1
531	53,070	169.0	1708.0	7.7	367.3	368.4	367.3	367.3	0.0
539	53,877	121.0	1464.0	9.0	375.3	376.4	375.3	375.9	0.6
551	55,135	109.0	1248.0	10.6	393.3	394.3	393.3	394.0	0.7
563	56,258	153.0	1485.0	8.9	402.7	404.0	402.7	402.7	0.0
577	57,666	181.0	2206.0	6.0	410.5	411.6	410.5	410.9	0.4
592	59,153	265.0	3460.0	3.8	416.5	417.7	416.5	417.0	0.5
601	60,111	146.0	1810.0	7.3	418.3	419.5	418.3	418.8	0.5
612	61,235	224.0	3148.0	4.2	421.8	423.1	421.8	422.3	0.5
622	62,175	225.0	2630.0	5.0	424.5	425.7	424.5	425.1	0.6
637	63,681	433.0	4112.0	3.2	427.5	428.6	427.5	428.3	0.8
649	64,856	203.0	2180.0	6.0	430.1	431.2	430.1	430.8	0.7
658	65,822	152.0	2118.0	6.1	432.2	433.4	432.2	432.6	0.4
668	66,774	162.0	2353.0	5.5	433.8	435.1	433.8	434.2	0.4
676	67,629	263.0	2864.0	4.5	435.5	436.8	435.5	435.6	0.1
Little River North Fork									
005	547	135.0	2018.0	3.9	437.1	438.4	437.1	437.8	0.7
011	1,070	179.0	2131.0	3.7	437.8	439.1	437.8	438.4	0.6
016	1,571	104.0	1521.0	5.2	438.3	439.7	438.3	439.0	0.7
023	2,324	95.0	1443.0	5.5	439.6	441.1	439.6	440.2	0.6
033	3,299	233.0	2164.0	3.7	441.8	443.6	441.8	442.4	0.6
042	4,217	180.0	1654.0	4.6	443.0	444.7	443.0	443.9	0.9
050	5,008	124.0	1533.0	5.0	445.2	446.7	445.2	445.9	0.7
070	6,952	82.0	764.0	9.9	451.0	452.3	451.0	451.6	0.6
078	7,776	87.0	822.0	9.2	457.3	458.3	457.3	457.8	0.5
084	8,419	130.0	957.0	7.9	463.9	465.0	463.9	464.4	0.5
091	9,073	179.0	1775.0	4.3	471.7	473.2	471.7	471.7	0.0
100	9,959	253.0	2627.0	2.9	473.5	475.1	473.5	473.6	0.1

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Little River North Fork									
117	11,731	347.0	2710.0	2.9	475.8	477.1	475.8	476.5	0.7
130	13,023	260.0	2649.0	2.9	477.6	478.8	477.6	478.4	0.8
138	13,773	420.0	3589.0	2.2	478.5	479.8	478.5	479.2	0.7
160	15,965	194.0	1560.0	3.4	480.0	481.2	480.0	480.8	0.8
166	16,552	80.0	1005.0	5.3	480.7	482.0	480.7	481.3	0.6
173	17,340	76.0	570.0	9.3	482.8	484.1	482.8	483.0	0.2
182	18,222	137.0	656.0	8.1	491.7	492.4	491.7	491.8	0.1
Little River North Fork Tributary 1									
005	469	63.0	357.0	5.4	442.6 ¹	444.3	439.5	439.8	0.3
007	710	99.0	1059.0	1.8	447.7	448.2	447.7	448.1	0.4
016	1,599	160.0	1281.0	1.5	448.0	448.6	448.0	448.7	0.7
027	2,697	138.0	808.0	2.4	449.7	450.2	449.7	450.5	0.8
033	3,278	65.0	314.0	6.2	451.5	452.0	451.5	452.0	0.5
036	3,615	95.0	483.0	4.0	454.4	455.1	454.4	455.0	0.6
044	4,355	85.0	690.0	1.6	461.8	462.3	461.8	462.0	0.2
051	5,120	70.0	253.0	4.3	462.1	462.7	462.1	462.5	0.4
057	5,687	41.0	152.0	7.2	467.8	468.4	467.8	468.4	0.6
063	6,271	50.0	207.0	5.3	474.3	474.9	474.3	474.4	0.1
072	7,191	90.0	287.0	3.8	479.3	479.8	479.3	479.7	0.4
081	8,059	172.0	719.0	1.3	483.3	483.7	483.3	484.2	0.9
092	9,186	83.0	362.0	2.5	488.8	489.2	488.8	489.7	0.9
099	9,902	65.0	242.0	3.3	492.6	493.2	492.6	493.5	0.9
Little River South Fork									
012	1,170	205.0	2489.0	3.4	437.4	438.6	437.4	438.3	0.9
020	2,035	130.0	1350.0	6.2	439.0	440.3	439.0	439.8	0.8
025	2,537	257.0	1111.0	7.5	446.0	447.0	446.0	446.0	0.0
035	3,481	200.0	1546.0	5.4	451.7	452.9	451.7	451.7	0.0
049	4,936	160.0	964.0	8.7	455.6	456.9	455.6	455.7	0.1
059	5,940	200.0	1955.0	4.3	460.4	461.3	460.4	461.2	0.8
075	7,535	139.0	1617.0	5.2	463.1	464.3	463.1	464.1	1.0
085	8,511	213.0	2132.0	3.9	466.5	468.0	466.5	467.1	0.6
097	9,687	250.0	2585.0	3.2	469.2	470.8	469.2	469.8	0.6
Little River Tributary 1									
008	779	83.0	565.0	7.5	431.5	432.0	431.5	432.2	0.7
020	2,046	123.0	875.0	4.8	439.7	440.2	439.7	440.6	0.9
031	3,080	95.0	544.0	7.8	446.5	446.9	446.5	446.6	0.1
037	3,684	145.0	1482.0	2.7	453.6	453.9	453.6	454.5	0.9
043	4,305	66.0	541.0	7.5	453.6	454.0	453.6	454.6	1.0
053	5,282	100.0	705.0	5.7	458.3	458.8	458.3	458.5	0.2
062	6,205	205.0	1209.0	3.3	463.9	464.2	463.9	464.7	0.8
071	7,068	150.0	894.0	3.5	468.8	469.2	468.8	469.7	0.9

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Morgan Creek									
415	41,468	1066.0	9133.0	1.3	250.5	*	250.5	251.2	0.7
Mud Creek									
031	3,074	499.0	4811.0	0.7	259.4	260.5	259.4	260.2	0.8
040	4,006	610.0	4964.0	0.6	259.6	260.6	259.6	260.4	0.8
057	5,671	272.0	1899.0	1.8	260.6	261.4	260.6	261.5	0.9
075	7,500	344.0	2654.0	1.3	265.1	265.6	265.1	266.0	0.9
095	9,500	299.0	1780.0	1.6	267.0	267.5	267.0	268.0	1.0
109	10,916	253.0	1634.0	1.7	270.9	271.5	270.9	271.6	0.7
126	12,610	252.0	1866.0	1.5	275.0	275.7	275.0	275.7	0.7
147	14,661	123.0	816.0	3.5	278.4	279.2	278.4	278.8	0.4
162	16,237	250.0	1598.0	1.8	282.4	283.1	282.4	283.2	0.8
179	17,935	184.0	861.0	2.6	286.0	286.8	286.0	286.7	0.7
195	19,472	250.0	1129.0	2.0	290.3	290.8	290.3	290.9	0.6
211	21,057	60.0	293.0	6.9	306.2	306.5	306.2	306.7	0.5
220	21,969	60.0	302.0	6.7	324.9	325.7	324.9	325.3	0.4
227	22,679	32.0	211.0	9.6	338.3	339.4	338.3	338.9	0.6
236	23,609	150.0	904.0	2.2	344.0	345.4	344.0	344.9	0.9
243	24,346	203.0	1369.0	1.5	347.6	348.1	347.6	348.2	0.6
253	25,337	250.0	1078.0	1.3	349.2	349.5	349.2	349.8	0.6
259	25,863	227.0	874.0	1.7	350.2	350.7	350.2	350.7	0.5
267	26,692	125.0	421.0	3.4	353.1	353.5	353.1	353.7	0.6
273	27,279	135.0	651.0	1.6	358.2	358.5	358.2	358.6	0.4
New Hope Creek									
475	47,495	1130.0	10217.0	1.5	249.6	250.6	249.6	250.4	0.8
502	50,224	1234.0	18613.0	0.8	256.8	257.8	256.8	257.5	0.7
515	51,460	1200.0	17194.0	0.9	256.9	257.9	256.9	257.7	0.8
533	53,312	1086.0	15443.0	1.0	257.1	258.1	257.1	257.9	0.8
564	56,407	1230.0	14026.0	0.8	257.6	258.6	257.6	258.4	0.8
588	58,754	1330.0	15443.0	0.7	259.2	260.2	259.2	259.9	0.7
616	61,640	952.0	10064.0	0.8	259.6	260.7	259.6	260.3	0.7
654	65,415	1513.0	13920.0	0.6	259.9	261.0	259.9	260.9	1.0
687	68,698	2421.0	16975.0	0.5	260.1	261.2	260.1	261.1	1.0
719	71,854	1330.0	4939.0	1.7	262.1	262.7	262.1	262.8	0.7
New Hope Creek Tributary 1									
036	3,559	373.0	1233.0	2.0	259.7 ¹	255.7	255.4	255.9	0.5
053	5,327	300.0	1606.0	1.6	262.5	262.7	262.5	263.0	0.5
068	6,831	311.0	1555.0	1.6	265.3	265.6	265.3	266.1	0.8
Northeast Creek									
282	28,215	745.0	5500.0	1.6	242.2	242.5	242.2	243.1	0.9
330	32,978	400.0	3864.0	2.3	244.9	245.3	244.9	245.8	0.9
Northeast Creek									
282	28,215	745.0	5500.0	1.6	242.2	*	242.2	243.1	0.9

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Northeast Creek									
330	32,978	400.0	3864.0	2.3	244.9	*	244.9	245.8	0.9
337	33,676	1000.0	8681.0	1.0	245.6	*	245.6	246.5	0.9
345	34,484	1210.0	9389.0	0.9	246.0	*	246.0	246.9	0.9
350	35,001	530.0	3706.0	2.4	246.2	*	246.2	247.2	1.0
368	36,764	1365.0	8612.0	1.0	247.6	*	247.6	248.5	0.9
389	38,937	1925.0	12560.0	0.4	249.3	*	249.3	250.1	0.8
400	39,957	1535.0	9221.0	0.6	249.6	*	249.6	250.3	0.7
408	40,772	920.0	5550.0	1.0	250.0	*	250.0	250.7	0.7
422	42,169	522.0	3934.0	1.4	252.8	*	252.8	253.4	0.6
426	42,645	863.0	6286.0	0.9	253.0	*	253.0	253.8	0.8
432	43,192	940.0	8097.0	0.7	253.2	*	253.2	254.0	0.8
437	43,733	990.0	7590.0	0.7	253.4	*	253.4	254.1	0.7
450	45,001	880.0	5896.0	0.9	254.1	*	254.1	254.9	0.8
455	45,469	940.0	5598.0	1.0	254.5	*	254.5	255.2	0.7
458	45,834	790.0	4833.0	1.2	255.0	*	255.0	255.6	0.6
464	46,400	905.0	5207.0	1.1	255.7	*	255.7	256.3	0.6
469	46,880	1060.0	6179.0	0.9	256.2	*	256.2	256.8	0.6
476	47,551	800.0	4383.0	1.3	257.0	*	257.0	257.5	0.5
496	49,615	960.0	8778.0	0.7	262.3	*	262.3	263.1	0.8
502	50,188	705.0	5956.0	1.0	262.5	*	262.5	263.3	0.8
514	51,376	79.0	1110.0	5.1	265.5	*	265.5	266.5	1.0
517	51,695	345.0	3551.0	1.6	266.4	*	266.4	267.3	0.9
521	52,109	350.0	3649.0	1.6	266.6	*	266.6	267.6	1.0
526	52,622	575.0	5735.0	0.6	266.9	*	266.9	267.9	1.0
535	53,545	400.0	3265.0	1.1	268.5	*	268.5	269.5	1.0
541	54,095	231.0	3515.0	1.1	276.4	*	276.4	276.4	0.0
545	54,463	340.0	5013.0	0.7	276.4	*	276.4	276.4	0.0
548	54,840	290.0	4121.0	0.9	276.4	*	276.4	276.4	0.0
552	55,221	355.0	4751.0	0.8	276.4	*	276.4	276.5	0.1
556	55,596	440.0	5332.0	0.8	276.4	*	276.4	276.6	0.2
561	56,076	460.0	5550.0	0.7	276.5	*	276.5	276.6	0.1
566	56,564	500.0	5414.0	0.7	276.5	*	276.5	276.7	0.2
571	57,057	470.0	4431.0	0.9	276.5	*	276.5	276.8	0.3
577	57,683	695.0	6675.0	0.6	276.6	*	276.6	276.9	0.3
584	58,384	825.0	7234.0	0.6	276.6	*	276.6	277.0	0.4
588	58,818	805.0	6425.0	0.6	276.7	*	276.7	277.1	0.4
592	59,228	785.0	5851.0	0.7	276.8	*	276.8	277.2	0.4
597	59,724	615.0	3695.0	1.1	276.9	*	276.9	277.4	0.5
602	60,196	430.0	2403.0	1.7	277.4	*	277.4	277.7	0.3
607	60,717	480.0	3295.0	1.2	278.1	*	278.1	278.4	0.3
611	61,109	260.0	1309.0	3.0	278.5	*	278.5	279.0	0.5
619	61,874	240.0	2523.0	1.6	284.0	*	284.0	285.0	1.0

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Northeast Creek									
625	62,480	250.0	2411.0	1.6	284.7	*	284.7	285.5	0.8
630	63,012	355.0	3073.0	1.3	284.8	*	284.8	285.8	1.0
632	63,197	382.0	3394.0	1.2	284.9	*	284.9	285.9	1.0
637	63,653	420.0	3236.0	1.2	285.1	*	285.1	286.0	0.9
641	64,141	420.0	2917.0	1.4	285.5	*	285.5	286.3	0.8
647	64,657	360.0	2510.0	1.6	285.9	*	285.9	286.6	0.7
650	64,966	385.0	2284.0	1.7	286.3	*	286.3	287.0	0.7
654	65,388	320.0	2207.0	1.7	286.6	*	286.6	287.5	0.9
661	66,095	330.0	2030.0	1.9	287.3	*	287.3	288.2	0.9
664	66,354	335.0	2021.0	1.9	287.6	*	287.6	288.6	1.0
670	66,972	295.0	1412.0	2.7	289.0	*	289.0	289.7	0.7
674	67,423	215.0	1136.0	3.4	291.2	*	291.2	291.7	0.5
680	67,982	250.0	1543.0	2.3	293.5	*	293.5	293.8	0.3
684	68,438	275.0	1637.0	2.2	294.2	*	294.2	294.6	0.4
690	68,951	275.0	1499.0	2.4	294.9	*	294.9	295.7	0.8
694	69,439	205.0	1224.0	2.9	296.3	*	296.3	297.2	0.9
698	69,826	170.0	1179.0	3.0	297.4	*	297.4	298.4	1.0
704	70,379	205.0	1456.0	2.4	299.2	*	299.2	300.1	0.9
711	71,083	172.0	2027.0	1.8	305.3	*	305.3	306.2	0.9
717	71,738	200.0	2211.0	1.6	305.7	*	305.7	306.6	0.9
Northeast Creek North Prong									
004	360	330.0	1272.0	2.2	266.7 ²	260.7	259.9	260.9	1.0
013	1,271	380.0	2971.0	0.9	266.7 ²	265.6	265.1	266.1	1.0
025	2,488	269.0	1165.0	2.2	266.7 ²	266.5	266.0	267.0	1.0
030	3,034	310.0	2288.0	1.1	268.2	268.5	268.2	269.1	0.9
035	3,484	218.0	1352.0	1.9	268.4	269.0	268.4	269.4	1.0
040	3,956	235.0	1382.0	1.9	269.1	269.9	269.1	270.1	1.0
045	4,460	295.0	1684.0	1.6	270.0	270.8	270.0	271.0	1.0
049	4,857	375.0	1888.0	1.4	270.5	271.4	270.5	271.5	1.0
053	5,286	256.0	1368.0	1.9	271.0	271.9	271.0	272.0	1.0
055	5,529	238.0	1254.0	2.1	271.5	272.4	271.5	272.5	1.0
059	5,911	264.0	1336.0	2.0	272.2	273.1	272.2	273.2	1.0
062	6,236	270.0	1334.0	2.0	272.8	273.6	272.8	273.8	1.0
066	6,600	332.0	1379.0	1.9	273.5	274.4	273.5	274.5	1.0
070	6,976	220.0	992.0	2.3	274.4	275.1	274.4	275.4	1.0
075	7,471	192.0	962.0	2.4	275.6	276.4	275.6	276.6	1.0
078	7,834	240.0	1161.0	2.0	276.5	277.2	276.5	277.5	1.0
085	8,543	180.0	964.0	2.4	278.2	279.0	278.2	278.9	0.7
093	9,302	335.0	1588.0	1.5	279.9	280.8	279.9	280.7	0.8
099	9,921	280.0	1656.0	1.4	281.3	282.2	281.3	281.8	0.5
106	10,619	105.0	358.0	4.0	282.0	283.0	282.0	282.3	0.3
111	11,055	130.0	597.0	2.4	285.4	286.2	285.4	285.9	0.5

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Northeast Creek North Prong									
113	11,276	143.0	745.0	1.9	285.9	286.6	285.9	286.9	1.0
121	12,105	140.0	963.0	1.5	291.0	291.4	291.0	292.0	1.0
125	12,539	158.0	966.0	1.5	291.7	292.3	291.7	292.7	1.0
131	13,052	180.0	952.0	1.5	292.8	293.5	292.8	293.7	0.9
135	13,463	146.0	696.0	2.1	294.2	294.8	294.2	294.9	0.7
139	13,866	148.0	673.0	2.1	295.7	296.3	295.7	296.6	0.9
142	14,177	197.0	908.0	1.6	296.7	297.3	296.7	297.7	1.0
146	14,613	155.0	684.0	2.1	298.1	298.7	298.1	299.1	1.0
153	15,306	107.0	511.0	2.8	301.9	302.5	301.9	302.8	0.9
164	16,412	140.0	776.0	1.6	307.2	307.6	307.2	308.2	1.0
169	16,863	75.0	345.0	3.5	308.9	309.2	308.9	309.7	0.8
172	17,164	61.0	346.0	3.5	311.6	311.9	311.6	312.6	1.0
174	17,400	80.0	383.0	3.2	313.4	313.8	313.4	314.4	1.0
179	17,870	182.0	2299.0	0.5	327.8	327.9	327.8	328.7	0.9
182	18,167	140.0	1470.0	0.8	327.8	328.0	327.8	328.8	1.0
185	18,490	77.0	549.0	2.2	327.8	328.0	327.8	328.8	1.0
187	18,706	70.0	294.0	4.1	328.4	328.8	328.4	329.3	0.9
190	18,996	66.0	371.0	3.3	332.2	332.5	332.2	333.0	0.8
Northeast Creek North Prong Tributary									
013	1,281	41.0	213.0	3.1	270.9	271.0	270.9	270.9	0.0
018	1,760	91.0	362.0	1.8	273.0	273.2	273.0	273.0	0.0
021	2,139	50.0	410.0	1.6	279.2	279.2	279.2	279.7	0.5
Northeast Creek North Prong Tributary A									
005	469	72.0	471.0	3.7	283.4	283.8	283.4	284.3	0.9
013	1,282	195.0	666.0	2.6	286.1	286.6	286.1	287.0	0.9
021	2,060	110.0	513.0	3.4	290.9	291.4	290.9	291.6	0.7
026	2,600	100.0	679.0	2.5	295.4	296.4	295.4	295.6	0.2
032	3,184	90.0	578.0	2.9	296.5	297.4	296.5	297.1	0.6
039	3,934	71.0	463.0	3.7	299.7	300.2	299.7	300.2	0.5
045	4,524	110.0	698.0	2.4	302.7	303.1	302.7	303.3	0.6
055	5,485	116.0	520.0	2.1	305.8	306.2	305.8	306.6	0.8
061	6,123	84.0	446.0	2.4	316.4	316.6	316.4	317.0	0.6
068	6,756	44.0	338.0	2.4	322.8	323.1	322.8	323.2	0.4
074	7,401	80.0	360.0	2.3	323.8	324.3	323.8	324.5	0.7
084	8,378	55.0	188.0	4.4	329.8	330.4	329.8	330.7	0.9
089	8,876	33.0	156.0	3.1	335.8	336.2	335.8	336.1	0.3
095	9,541	16.0	59.0	8.3	339.2	340.0	339.2	339.4	0.2
098	9,822	38.0	73.0	3.4	346.1	346.5	346.1	346.8	0.7
101	10,119	33.0	49.0	5.1	348.8	349.1	348.8	349.4	0.6
103	10,294	12.0	36.0	9.5	351.5	351.9	351.5	351.6	0.1
Northeast Creek Tributary 1									
007	666	132.0	750.0	3.0	285.8	286.1	285.8	286.2	0.4

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Northeast Creek Tributary 1									
012	1,225	186.0	1762.0	1.3	286.4	286.8	286.4	286.8	0.4
022	2,206	217.0	1679.0	1.3	286.6	287.1	286.6	287.1	0.5
028	2,784	327.0	3253.0	0.7	286.7	287.2	286.7	287.3	0.6
033	3,287	350.0	4738.0	0.5	290.1	290.5	290.1	290.2	0.1
038	3,823	177.0	2002.0	1.0	290.1	290.5	290.1	290.2	0.1
045	4,532	123.0	1205.0	1.7	297.3	298.0	297.3	297.5	0.2
052	5,228	120.0	723.0	2.6	297.7	298.3	297.7	297.9	0.2
064	6,382	132.0	969.0	1.8	305.5	306.1	305.5	306.3	0.8
075	7,457	92.0	1678.0	1.0	325.0	325.5	325.0	325.9	0.9
076	7,550	90.0	1624.0	1.1	325.1	325.5	325.1	325.9	0.8
085	8,463	69.0	914.0	1.0	325.1	325.5	325.1	326.0	0.9
095	9,452	122.0	761.0	1.2	325.1	325.6	325.1	326.1	1.0
102	10,245	21.0	84.0	6.3	329.3	330.4	329.3	329.4	0.1
110	10,955	22.0	103.0	5.1	336.2	337.2	336.2	336.4	0.2
115	11,490	29.0	107.0	4.5	343.4	344.7	343.4	343.5	0.1
119	11,918	30.0	134.0	3.6	347.4	348.4	347.4	347.4	0.0
127	12,674	31.0	117.0	4.2	360.1	361.0	360.1	360.1	0.0
134	13,438	31.0	443.0	0.7	382.0	382.3	382.0	382.5	0.5
140	14,027	30.0	200.0	1.5	382.0	382.4	382.0	382.6	0.6
145	14,471	22.0	44.0	6.7	386.3	386.8	386.3	386.3	0.0
Northeast Creek Tributary C									
017	1,672	169.0	541.0	1.1	243.91	241.2	241.1	242.0	0.9
022	2,171	106.0	326.0	1.8	243.91	242.2	242.1	242.9	0.8
027	2,717	156.0	575.0	1.0	245.3	245.5	245.3	246.3	1.0
034	3,407	66.0	247.0	2.3	248.4	248.5	248.4	249.4	1.0
040	3,975	34.0	76.0	5.7	249.7	249.8	249.7	250.4	0.7
045	4,490	139.0	1183.0	0.4	258.9	259.0	258.9	259.5	0.6
056	5,611	580.0	3126.0	0.3	267.6	267.7	267.6	267.6	0.0
068	6,771	307.0	1356.0	0.6	267.6	267.8	267.6	267.6	0.0
075	7,464	209.0	1408.0	0.6	271.7	271.8	271.7	271.9	0.2
081	8,087	161.0	909.0	0.9	271.8	272.0	271.8	272.1	0.3
087	8,688	24.0	115.0	7.1	274.5	275.2	274.5	274.9	0.4
092	9,228	29.0	158.0	3.4	277.8	278.4	277.8	278.6	0.8
097	9,665	15.0	87.0	6.2	279.5	279.9	279.5	280.0	0.5
102	10,180	15.0	74.0	7.3	285.2	285.5	285.2	285.3	0.1
109	10,882	19.0	66.0	5.4	292.2	293.1	292.2	292.4	0.2
112	11,191	24.0	119.0	3.0	294.5	294.8	294.5	295.4	0.9
Northeast Creek Tributary D									
022	2,151	211.0	844.0	2.3	240.9	241.0	240.9	241.8	0.9
032	3,152	348.0	2081.0	0.9	246.4	246.5	246.4	247.4	1.0
041	4,139	182.0	892.0	2.2	248.5	248.6	248.5	249.4	0.9
055	5,465	223.0	1163.0	1.7	253.2	253.4	253.2	254.0	0.8

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Northeast Creek Tributary D									
063	6,323	189.0	799.0	2.2	255.2	255.4	255.2	256.2	1.0
066	6,581	96.0	452.0	3.9	257.0	257.2	257.0	257.5	0.5
072	7,188	88.0	497.0	3.5	259.1	259.4	259.1	259.9	0.8
085	8,503	149.0	726.0	2.4	263.0	263.2	263.0	263.9	0.9
098	9,761	66.0	367.0	4.7	272.2	272.3	272.2	273.0	0.8
103	10,343	58.0	321.0	5.3	277.5	277.7	277.5	278.2	0.7
109	10,943	62.0	248.0	2.9	281.9	282.1	281.9	282.9	1.0
112	11,216	34.0	135.0	5.3	284.1	284.2	284.1	284.7	0.6
Panther Creek									
095	9,476	343.0	2155.0	1.9	265.5 ¹	265.2	264.8	265.8	1.0
106	10,552	350.0	2061.0	2.0	266.3	266.6	266.3	267.0	0.7
116	11,560	343.0	1639.0	2.5	268.3	268.6	268.3	269.0	0.7
123	12,297	465.0	2150.0	1.9	270.1	270.4	270.1	270.8	0.7
142	14,190	479.0	2538.0	1.7	274.6	274.9	274.6	275.1	0.5
152	15,188	350.0	1715.0	2.3	275.8	276.1	275.8	276.7	0.9
170	16,991	457.0	1849.0	1.9	279.6	279.8	279.6	280.3	0.7
181	18,112	159.0	794.0	4.4	283.5	283.9	283.5	283.9	0.4
191	19,148	70.0	499.0	6.6	288.3	288.7	288.3	288.7	0.4
201	20,081	392.0	2532.0	1.3	291.2	291.5	291.2	291.9	0.7
216	21,629	233.0	1069.0	2.8	293.2	293.6	293.2	293.8	0.6
231	23,052	225.0	1150.0	2.6	298.1	298.5	298.1	299.0	0.9
240	24,044	115.0	455.0	4.3	302.2	302.8	302.2	302.5	0.3
251	25,109	100.0	523.0	3.7	307.1	307.6	307.1	307.8	0.7
260	26,009	178.0	1307.0	1.3	313.5	313.9	313.5	314.3	0.8
Rocky Creek									
007	667	315.0	2323.0	1.5	286.0 ¹	282.0	281.8	282.8	1.0
010	951	250.0	1067.0	3.2	286.0 ¹	282.3	282.0	283.0	1.0
011	1,115	100.0	537.0	6.3	286.0 ¹	282.8	282.7	283.4	0.7
020	2,028	295.0	1356.0	2.5	286.5	286.7	286.5	286.9	0.4
024	2,366	280.0	1934.0	1.7	287.4	287.6	287.4	288.0	0.6
033	3,270	330.0	2193.0	1.5	288.6	288.9	288.6	289.3	0.7
036	3,609	435.0	2246.0	1.5	289.0	289.3	289.0	289.7	0.7
039	3,864	325.0	1507.0	2.2	289.2	289.5	289.2	290.1	0.9
044	4,351	330.0	1489.0	2.2	292.3	292.6	292.3	292.9	0.6
047	4,727	300.0	1252.0	2.6	292.9	293.1	292.9	293.6	0.7
058	5,778	95.0	777.0	4.2	296.9	297.3	296.9	297.3	0.4
062	6,249	128.0	951.0	3.4	298.3	298.7	298.3	298.6	0.3
071	7,100	215.0	1851.0	1.8	301.9	302.3	301.9	302.6	0.7
073	7,288	290.0	2332.0	1.4	302.0	302.4	302.0	302.8	0.8
076	7,637	220.0	1615.0	1.6	302.2	302.6	302.2	303.1	0.9
081	8,087	150.0	1223.0	2.2	303.4	303.9	303.4	304.2	0.8
084	8,441	190.0	1729.0	1.5	303.9	304.5	303.9	304.7	0.8

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Rocky Creek									
088	8,765	190.0	1390.0	1.8	304.2	304.8	304.2	305.0	0.8
090	9,039	160.0	1323.0	1.9	304.6	305.3	304.6	305.4	0.8
094	9,357	170.0	1141.0	2.2	305.1	305.9	305.1	305.8	0.7
097	9,704	205.0	1284.0	2.0	305.9	306.6	305.9	306.5	0.6
104	10,443	145.0	705.0	3.6	307.8	308.5	307.8	308.3	0.5
109	10,891	125.0	937.0	2.7	310.3	310.7	310.3	310.9	0.6
112	11,194	210.0	1401.0	1.8	310.8	311.3	310.8	311.6	0.8
115	11,514	200.0	1458.0	1.7	311.2	311.8	311.2	312.1	0.9
119	11,919	185.0	954.0	1.6	311.8	312.4	311.8	312.7	0.9
123	12,296	185.0	730.0	2.1	312.6	313.2	312.6	313.5	0.9
128	12,759	155.0	478.0	3.2	315.4	315.8	315.4	316.4	1.0
132	13,176	125.0	589.0	2.6	319.3	319.8	319.3	319.9	0.6
135	13,502	91.0	302.0	5.1	321.3	321.8	321.3	321.9	0.6
138	13,765	90.0	479.0	3.2	324.1	324.6	324.1	325.1	1.0
141	14,090	110.0	479.0	1.7	325.6	326.2	325.6	326.6	1.0
146	14,615	65.0	317.0	2.5	330.3	333.5	330.3	331.2	0.9
Sandy Creek									
009	945	265.0	1124.0	4.7	257.5 ¹	258.5	252.4	252.4	0.0
030	3,009	580.0	4148.0	1.3	258.9	259.2	258.9	259.2	0.3
043	4,293	210.0	997.0	5.3	263.0	263.1	263.0	263.7	0.7
051	5,123	400.0	4082.0	1.3	269.0	269.3	269.0	269.7	0.7
063	6,322	600.0	4576.0	1.2	269.3	269.5	269.3	270.3	1.0
072	7,187	730.0	5212.0	1.1	269.4	269.7	269.4	270.4	1.0
082	8,226	750.0	5257.0	1.1	270.0	270.3	270.0	271.0	1.0
095	9,541	500.0	3051.0	2.0	272.5	272.7	272.5	273.2	0.7
111	11,053	182.0	1634.0	3.6	277.9	278.4	277.9	278.2	0.3
120	11,992	251.0	2153.0	2.7	278.7	279.1	278.7	279.6	0.9
126	12,596	58.0	672.0	8.7	279.1	279.5	279.1	279.9	0.8
136	13,566	271.0	2410.0	2.4	285.9	287.3	285.9	286.6	0.7
151	15,086	318.0	2968.0	0.8	286.6	287.7	286.6	287.5	0.9
161	16,101	300.0	2007.0	1.2	286.9	288.0	286.9	287.7	0.8
176	17,602	200.0	892.0	3.0	289.1	289.6	289.1	289.6	0.5
182	18,193	104.0	517.0	5.1	291.6	293.0	291.6	291.8	0.2
186	18,600	242.0	1354.0	2.0	294.0	294.7	294.0	294.3	0.3
195	19,457	203.0	1560.0	1.7	299.6	300.5	299.6	299.7	0.1
201	20,106	163.0	2725.0	0.9	310.6	311.0	310.6	310.9	0.3
211	21,106	190.0	2679.0	0.9	310.7	311.1	310.7	311.0	0.3
226	22,558	172.0	1742.0	0.9	310.7	311.2	310.7	311.1	0.4
230	22,999	149.0	1144.0	1.4	313.7	314.0	313.7	314.3	0.6
Sandy Creek Tributary A									
012	1,201	117.0	476.0	4.9	257.4 ¹	258.4	250.8	250.9	0.1
022	2,247	180.0	1193.0	2.0	257.4 ¹	258.4	255.5	256.0	0.5

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Sandy Creek Tributary A									
034	3,358	163.0	906.0	2.6	258.0	258.4	258.0	258.7	0.7
043	4,273	136.0	1242.0	2.0	264.5	264.6	264.5	265.1	0.6
049	4,858	121.0	629.0	3.9	265.4	265.7	265.4	266.2	0.8
055	5,486	100.0	781.0	3.1	269.0	269.5	269.0	269.8	0.8
060	6,022	100.0	655.0	3.2	270.3	270.7	270.3	271.1	0.8
065	6,513	65.0	858.0	2.4	277.5	279.4	277.5	278.4	0.9
Sandy Creek Tributary D									
008	840	500.0	5258.0	0.7	286.6	287.7	286.6	287.5	0.9
016	1,630	350.0	3504.0	1.0	287.0	288.0	287.0	287.9	0.9
021	2,096	275.0	1415.0	2.5	287.7	288.5	287.7	288.5	0.8
027	2,668	250.0	1630.0	2.2	288.4	289.0	288.4	289.2	0.8
037	3,706	167.0	903.0	3.9	289.5	289.9	289.5	290.4	0.9
045	4,483	125.0	946.0	3.8	293.1	293.2	293.1	294.1	1.0
052	5,215	230.0	3682.0	0.7	302.9	303.2	302.9	303.8	0.9
065	6,544	98.0	1221.0	2.1	303.2	303.5	303.2	304.0	0.8
073	7,319	335.0	3996.0	0.7	313.8	314.4	313.8	314.0	0.2
083	8,298	270.0	2726.0	0.9	313.9	314.4	313.9	314.1	0.2
094	9,413	155.0	853.0	2.1	314.0	314.6	314.0	314.3	0.3
100	9,958	285.0	1362.0	1.3	319.1	319.3	319.1	319.1	0.0
Sevenmile Creek									
008	830	40.0	303.0	4.3	347.2	*	347.2	347.7	0.5
012	1,184	41.0	133.0	9.8	355.0	*	355.0	355.1	0.1
017	1,695	31.0	137.0	9.5	364.6	*	364.6	364.6	0.0
021	2,075	33.0	132.0	9.9	372.0	*	372.0	372.0	0.0
025	2,517	34.0	123.0	10.6	382.6	*	382.6	382.6	0.0
029	2,908	41.0	159.0	8.2	390.1	*	390.1	390.3	0.2
035	3,454	465.0	5344.0	0.2	417.8	*	417.8	417.8	0.0
038	3,818	545.0	5790.0	0.2	417.8	*	417.8	417.8	0.0
088	8,794	135.0	892.0	2.7	456.9	*	456.9	457.3	0.4
092	9,165	150.0	857.0	2.8	457.2	*	457.2	457.7	0.5
096	9,638	130.0	435.0	5.5	461.5	*	461.5	461.5	0.0
103	10,254	76.0	291.0	3.7	467.9	*	467.9	468.2	0.3
107	10,666	30.0	104.0	10.4	471.4	*	471.4	471.4	0.0
112	11,195	40.0	138.0	7.8	479.7	*	479.7	479.7	0.0
119	11,915	50.0	386.0	2.8	494.5	*	494.5	494.8	0.3
123	12,346	35.0	228.0	4.7	494.7	*	494.7	495.5	0.8
133	13,251	40.0	237.0	4.6	504.5	*	504.5	505.5	1.0
136	13,619	60.0	209.0	5.2	510.5	*	510.5	510.9	0.4
141	14,102	40.0	187.0	2.8	517.3	*	517.3	518.0	0.7
145	14,508	40.0	272.0	2.0	526.8	*	526.8	527.7	0.9
149	14,934	40.0	120.0	4.5	527.8	*	527.8	528.6	0.8
154	15,435	31.0	132.0	4.0	533.6	*	533.6	534.5	0.9

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Sevenmile Creek									
165	16,456	47.0	98.0	5.5	558.0	*	558.0	558.1	0.1
South Ellerbe Creek									
018	1,799	126.0	701.0	3.4	309.1	309.3	309.1	309.8	0.7
022	2,242	91.0	688.0	3.4	309.6	309.8	309.6	310.3	0.7
029	2,862	111.0	1307.0	1.8	316.9	317.3	316.9	317.6	0.7
038	3,840	65.0	905.0	2.3	320.3	321.2	320.3	321.0	0.7
044	4,421	79.0	1274.0	1.6	325.7	327.4	325.7	326.4	0.7
051	5,105	46.0	561.0	3.6	325.9	327.5	325.9	326.7	0.8
059	5,921	76.0	716.0	2.9	326.7	327.8	326.7	327.7	1.0
067	6,689	54.0	325.0	4.8	335.2	335.1	335.2	335.2	0.0
076	7,603	76.0	782.0	2.0	352.8	354.6	352.8	352.8	0.0
083	8,341	70.0	534.0	3.0	353.1	354.7	353.1	353.2	0.1
088	8,816	70.0	750.0	2.1	357.0	357.7	357.0	357.1	0.1
South Ellerbe Creek Tributary									
004	372	329.0	2310.0	1.3	311.2	311.0	311.2	311.4	0.2
016	1,581	213.0	2573.0	1.1	319.0	319.2	319.0	319.7	0.7
023	2,296	153.0	1412.0	2.3	319.1	319.2	319.1	319.8	0.7
025	2,511	162.0	1577.0	2.0	319.2	319.4	319.2	320.0	0.8
029	2,899	220.0	1941.0	1.7	319.4	319.5	319.4	320.3	0.9
033	3,268	106.0	933.0	3.4	319.7	319.8	319.7	320.5	0.8
036	3,556	145.0	765.0	3.3	319.8	320.0	319.8	320.7	0.9
039	3,894	57.0	461.0	5.5	320.3	320.5	320.3	321.2	0.9
045	4,525	118.0	619.0	3.8	323.2	323.4	323.2	323.5	0.3
050	5,014	60.0	382.0	6.1	324.2	324.3	324.2	325.1	0.9
053	5,255	45.0	278.0	8.3	325.6	325.8	325.6	326.3	0.7
Southwest Creek									
095	9,507	190.0	949.0	2.3	238.9	*	238.9	239.9	1.0
098	9,817	239.0	930.0	2.4	239.8	*	239.8	240.5	0.7
103	10,271	235.0	1039.0	1.8	240.6	*	240.6	241.3	0.7
110	10,960	158.0	729.0	2.6	242.7	*	242.7	243.4	0.7
114	11,400	210.0	1460.0	1.3	246.0	*	246.0	246.8	0.8
118	11,764	230.0	1401.0	1.4	246.2	*	246.2	247.0	0.8
124	12,389	296.0	1537.0	1.2	246.7	*	246.7	247.6	0.9
128	12,771	158.0	899.0	2.1	247.0	*	247.0	247.9	0.9
131	13,101	134.0	706.0	2.7	247.4	*	247.4	248.3	0.9
136	13,594	125.0	612.0	3.1	248.3	*	248.3	249.3	1.0
143	14,273	209.0	1147.0	1.4	251.2	*	251.2	252.2	1.0
148	14,771	119.0	697.0	2.3	251.6	*	251.6	252.6	1.0
152	15,201	151.0	746.0	2.2	252.1	*	252.1	253.1	1.0
158	15,771	120.0	523.0	3.1	253.0	*	253.0	253.9	0.9
161	16,136	126.0	625.0	2.6	253.9	*	253.9	254.6	0.7

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Southwest Creek									
167	16,700	115.0	535.0	2.8	254.8	*	254.8	255.6	0.8
172	17,182	120.0	549.0	2.7	255.7	*	255.7	256.7	1.0
176	17,601	110.0	446.0	2.2	256.5	*	256.5	257.5	1.0
180	17,997	120.0	311.0	7.0	257.6	*	257.6	258.0	0.4
188	18,781	377.0	6758.0	0.3	276.3	*	276.3	277.0	0.7
191	19,105	400.0	6756.0	0.3	276.3	*	276.3	277.0	0.7
197	19,685	300.0	4503.0	0.5	276.3	*	276.3	277.0	0.7
203	20,318	300.0	4112.0	0.5	276.4	*	276.4	277.1	0.7
207	20,746	240.0	3308.0	0.7	276.4	*	276.4	277.1	0.7
212	21,173	240.0	3002.0	0.7	276.4	*	276.4	277.1	0.7
218	21,774	200.0	2170.0	1.0	276.4	*	276.4	277.2	0.8
222	22,172	240.0	2294.0	1.0	276.4	*	276.4	277.2	0.8
226	22,637	255.0	2646.0	0.8	276.6	*	276.6	277.4	0.8
232	23,221	155.0	1432.0	1.5	276.6	*	276.6	277.5	0.9
235	23,471	165.0	1369.0	1.6	276.7	*	276.7	277.6	0.9
238	23,779	175.0	1160.0	1.9	276.8	*	276.8	277.8	1.0
243	24,280	195.0	1545.0	1.4	277.4	*	277.4	278.4	1.0
246	24,621	210.0	1483.0	1.5	277.5	*	277.5	278.5	1.0
253	25,330	145.0	780.0	2.8	278.0	*	278.0	278.9	0.9
256	25,641	125.0	614.0	3.5	278.6	*	278.6	279.6	1.0
266	26,640	150.0	607.0	3.6	281.9	*	281.9	282.3	0.4
270	27,001	143.0	644.0	3.0	282.6	*	282.6	283.6	1.0
274	27,399	150.0	732.0	2.6	283.4	*	283.4	284.4	1.0
279	27,862	180.0	1418.0	1.4	289.0	*	289.0	290.0	1.0
282	28,248	260.0	1867.0	1.0	289.3	*	289.3	290.2	0.9
287	28,655	255.0	1406.0	1.4	289.4	*	289.4	290.4	1.0
298	29,763	230.0	1728.0	0.8	296.6	*	296.6	297.6	1.0
301	30,139	175.0	1119.0	1.2	296.7	*	296.7	297.7	1.0
308	30,839	150.0	1106.0	1.2	298.9	*	298.9	299.9	1.0
314	31,444	135.0	647.0	2.1	299.2	*	299.2	300.2	1.0
321	32,098	40.0	381.0	3.1	304.5	*	304.5	305.0	0.5
329	32,905	105.0	711.0	1.7	306.2	*	306.2	307.1	0.9
333	33,324	130.0	783.0	1.5	306.5	*	306.5	307.5	1.0
347	34,708	261.0	3266.0	0.4	319.4	*	319.4	319.6	0.2
356	35,618	161.0	1723.0	0.7	319.4	*	319.4	319.6	0.2
365	36,461	40.0	205.0	3.6	321.0	*	321.0	321.4	0.4
367	36,675	30.0	104.0	7.1	321.7	*	321.7	322.0	0.3
371	37,060	42.0	155.0	4.8	325.4	*	325.4	325.8	0.4
375	37,519	36.0	137.0	5.4	327.6	*	327.6	328.2	0.6
383	38,319	30.0	124.0	4.0	333.8	*	333.8	334.7	0.9
388	38,773	30.0	119.0	4.2	337.2	*	337.2	337.7	0.5
394	39,434	36.0	152.0	3.3	345.9	*	345.9	346.4	0.5

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Southwest Creek									
397	39,657	30.0	112.0	4.4	346.7	*	346.7	347.7	1.0
400	39,965	35.0	107.0	4.6	349.8	*	349.8	350.3	0.5
Stirrup Iron Creek									
307	30,714	360.0	5850.0	0.6	328.5	329.6	328.5	329.4	0.9
314	31,424	450.0	6639.0	0.6	328.5	329.6	328.5	329.5	1.0
326	32,595	570.0	7466.0	0.5	328.5	329.7	328.5	329.5	1.0
339	33,864	530.0	4887.0	0.5	328.6	329.7	328.6	329.6	1.0
349	34,931	394.0	2944.0	0.9	328.8	329.9	328.8	329.7	0.9
357	35,687	331.0	2337.0	1.1	329.1	330.1	329.1	330.0	0.9
369	36,944	353.0	1990.0	1.3	330.1	330.7	330.1	331.1	1.0
381	38,108	220.0	2180.0	1.4	337.1	338.3	337.1	337.6	0.5
390	38,984	364.0	3135.0	1.0	338.4	338.8	338.4	339.4	1.0
397	39,675	150.0	1131.0	2.7	338.7	339.1	338.7	339.6	0.9
417	41,722	46.0	356.0	3.9	341.1	341.5	341.1	341.9	0.8
429	42,917	135.0	546.0	2.5	345.2	345.9	345.2	346.0	0.8
443	44,256	131.0	492.0	2.2	352.0	352.3	352.0	352.8	0.8
446	44,629	225.0	1240.0	0.9	355.0	355.2	355.0	356.0	1.0
453	45,286	585.0	3485.0	0.5	365.6	365.7	365.6	365.6	0.0
459	45,938	230.0	1287.0	0.5	365.6	365.7	365.6	365.6	0.0
466	46,641	150.0	356.0	1.7	365.6	365.7	365.6	365.6	0.0
472	47,204	85.0	160.0	4.4	367.1	367.2	367.1	367.3	0.2
479	47,892	105.0	399.0	1.6	375.3	375.4	375.3	375.7	0.4
486	48,596	80.0	167.0	3.1	382.5	382.6	382.5	382.7	0.2
491	49,068	58.0	67.0	4.1	388.3	388.4	388.3	388.3	0.0
494	49,381	38.0	46.0	6.0	396.4	396.4	396.4	396.4	0.0
Stirrup Iron Creek Tributary A									
013	1,282	30.0	206.0	8.1	345.7	345.9	345.7	345.8	0.1
020	2,022	84.0	514.0	3.2	348.9	349.2	348.9	349.4	0.5
032	3,167	190.0	1909.0	0.9	358.8	359.2	358.8	359.5	0.7
043	4,271	47.0	236.0	2.8	359.0	359.5	359.0	360.0	1.0
049	4,891	91.0	287.0	2.2	364.9	365.0	364.9	364.9	0.0
055	5,458	30.0	83.0	7.6	369.9	370.0	369.9	370.4	0.5
059	5,925	50.0	124.0	5.1	377.4	377.5	377.4	377.6	0.2
063	6,311	60.0	278.0	1.5	382.3	382.3	382.3	382.7	0.4
066	6,642	52.0	182.0	2.3	383.3	383.3	383.3	384.1	0.8
Stirrup Iron Creek Tributary B									
005	545	95.0	482.0	2.5	328.5 ¹	329.7	322.6	323.6	1.0
011	1,064	85.0	302.0	4.2	328.5 ¹	329.7	324.3	325.3	1.0
018	1,802	45.0	216.0	5.9	329.4	329.9	329.4	329.6	0.2
023	2,302	52.0	278.0	4.4	331.1	331.8	331.1	331.8	0.7
025	2,475	37.0	223.0	5.5	331.6	332.2	331.6	332.6	1.0
031	3,105	135.0	1179.0	1.0	343.6	344.0	343.6	344.3	0.7

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Stirrup Iron Creek Tributary B									
036	3,562	81.0	802.0	1.5	343.6	344.0	343.6	344.3	0.7
039	3,892	145.0	1643.0	0.7	346.1	346.3	346.1	347.0	0.9
049	4,883	160.0	1307.0	0.9	349.1	349.3	349.1	349.8	0.7
054	5,423	108.0	657.0	1.6	349.2	349.3	349.2	350.2	1.0
Stirrup Iron Creek Tributary C									
023	2,339	139.0	751.0	2.8	328.4 ¹	329.6	318.0	318.9	0.9
030	3,042	187.0	1205.0	1.8	328.4 ¹	329.6	321.2	322.1	0.9
039	3,909	119.0	793.0	2.7	328.4 ¹	329.6	322.8	323.7	0.9
046	4,607	163.0	907.0	2.4	328.4 ¹	329.6	324.4	325.3	0.9
057	5,693	89.0	461.0	3.5	328.4 ¹	329.6	327.8	328.7	0.9
065	6,457	92.0	457.0	3.6	330.2	330.8	330.2	330.9	0.7
073	7,306	74.0	355.0	4.3	332.8	333.3	332.8	333.3	0.5
079	7,880	95.0	395.0	3.9	334.7	335.2	334.7	335.3	0.6
087	8,666	160.0	489.0	3.1	338.5	338.9	338.5	339.2	0.7
093	9,314	120.0	531.0	2.9	342.9	343.3	342.9	343.7	0.8
098	9,751	92.0	423.0	3.6	344.7	345.2	344.7	345.7	1.0
101	10,116	127.0	520.0	2.3	345.9	346.4	345.9	346.8	0.9
107	10,722	48.0	229.0	5.3	347.7	347.9	347.7	348.5	0.8
112	11,229	123.0	199.0	5.9	351.4	351.7	351.4	351.4	0.0
123	12,328	65.0	239.0	3.7	359.0	359.3	359.0	359.8	0.8
129	12,944	107.0	345.0	2.5	362.9	363.1	362.9	363.6	0.7
142	14,231	85.0	302.0	1.3	374.5	374.8	374.5	375.4	0.9
146	14,572	55.0	153.0	2.5	378.0	378.3	378.0	378.5	0.5
Sycamore Creek (Basin 18, Stream 6)									
442	44,202	127.0	531.0	10.5	399.4	399.4	399.4	400.1	0.7
450	45,001	78.0	474.0	8.3	404.1	404.1	404.1	404.9	0.8
460	46,002	78.0	419.0	8.6	409.9	409.9	409.9	410.6	0.7
470	46,999	107.0	495.0	9.7	416.7	416.7	416.7	417.0	0.3
482	48,241	82.0	501.0	3.9	426.1	426.1	426.1	427.1	1.0
492	49,206	62.0	231.0	7.8	434.5	434.5	434.5	435.4	0.9
502	50,249	34.0	150.0	8.6	443.3	443.3	443.3	444.1	0.8
508	50,754	29.0	115.0	3.4	450.4	450.4	450.4	451.4	1.0
Third Fork Creek									
031	3,053	1460.0	7808.0	1.2	239.0 ¹	239.9	237.8	238.7	0.9
034	3,398	1040.0	5731.0	1.6	239.0 ¹	239.9	238.3	239.2	0.9
045	4,489	775.0	7475.0	1.3	244.1	*	244.1	244.4	0.3
050	4,994	840.0	7619.0	1.2	244.3	*	244.3	244.8	0.5
055	5,452	1022.0	8236.0	1.1	244.5	*	244.5	245.1	0.6
060	5,993	1220.0	9103.0	1.0	244.6	*	244.6	245.4	0.8
066	6,556	805.0	4639.0	2.0	244.9	*	244.9	245.7	0.8
071	7,065	730.0	5552.0	1.7	246.0	*	246.0	246.7	0.7
085	8,493	680.0	6757.0	1.4	251.1	*	251.1	251.6	0.5

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Third Fork Creek									
089	8,930	650.0	5734.0	1.6	251.2	*	251.2	251.9	0.7
102	10,181	640.0	7022.0	1.3	254.8	*	254.8	255.2	0.4
108	10,782	520.0	6358.0	1.4	255.0	*	255.0	255.5	0.5
115	11,455	560.0	6867.0	1.3	255.1	*	255.1	255.7	0.6
120	12,007	615.0	6662.0	1.4	255.2	*	255.2	256.0	0.8
144	14,438	948.0	9778.0	0.8	257.8	*	257.8	258.6	0.8
159	15,877	779.0	6778.0	1.2	258.1	*	258.1	258.9	0.8
167	16,676	750.0	6165.0	1.3	258.6	*	258.6	259.4	0.8
172	17,168	510.0	4391.0	1.8	259.1	*	259.1	259.8	0.7
178	17,804	560.0	4300.0	1.8	259.9	*	259.9	260.5	0.6
184	18,368	566.0	3899.0	2.0	260.8	*	260.8	261.3	0.5
188	18,849	475.0	3942.0	2.0	261.6	*	261.6	262.2	0.6
192	19,196	475.0	3947.0	2.0	261.9	*	261.9	262.7	0.8
197	19,740	735.0	5153.0	1.5	262.9	*	262.9	263.6	0.7
201	20,108	600.0	4832.0	1.6	263.4	*	263.4	264.1	0.7
206	20,576	525.0	4440.0	1.8	264.1	*	264.1	264.6	0.5
211	21,067	510.0	3874.0	2.0	264.9	*	264.9	265.3	0.4
215	21,485	584.0	4166.0	1.9	265.8	*	265.8	266.1	0.3
219	21,875	616.0	3848.0	2.1	266.4	*	266.4	266.9	0.5
222	22,234	460.0	2529.0	3.1	267.4	*	267.4	268.1	0.7
229	22,935	560.0	4061.0	2.0	269.5	*	269.5	270.2	0.7
236	23,629	515.0	4022.0	2.0	270.6	*	270.6	271.4	0.8
242	24,247	755.0	5781.0	1.4	271.4	*	271.4	272.3	0.9
246	24,637	550.0	4008.0	2.0	271.8	*	271.8	272.8	1.0
258	25,843	450.0	4068.0	1.8	275.3	*	275.3	275.9	0.6
264	26,414	490.0	4567.0	1.6	275.6	*	275.6	276.4	0.8
269	26,920	575.0	4275.0	1.7	276.1	*	276.1	277.0	0.9
284	28,385	555.0	4713.0	1.5	278.5	*	278.5	279.4	0.9
289	28,906	290.0	2336.0	3.0	278.9	*	278.9	279.9	1.0
296	29,566	320.0	3176.0	2.2	281.0	*	281.0	281.5	0.5
301	30,116	560.0	4810.0	1.5	281.8	*	281.8	282.3	0.5
306	30,635	435.0	3311.0	2.1	282.3	*	282.3	282.7	0.4
316	31,626	275.0	3404.0	2.1	285.9	*	285.9	286.3	0.4
323	32,321	210.0	2058.0	2.4	286.4	*	286.4	286.9	0.5
335	33,498	435.0	3684.0	1.4	287.9	*	287.9	288.9	1.0
338	33,811	470.0	4030.0	1.2	288.1	*	288.1	289.1	1.0
349	34,864	315.0	1672.0	2.2	289.2	*	289.2	289.9	0.7
354	35,384	437.0	1522.0	2.5	291.4	*	291.4	291.7	0.3
357	35,676	380.0	1445.0	2.6	292.8	*	292.8	293.2	0.4
362	36,240	315.0	1294.0	2.9	295.5	*	295.5	295.8	0.3
369	36,885	360.0	1992.0	1.9	298.7	*	298.7	299.5	0.8
372	37,226	255.0	1531.0	2.4	299.1	*	299.1	299.9	0.8

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Third Fork Creek									
375	37,486	240.0	1482.0	2.5	299.5	*	299.5	300.3	0.8
379	37,869	255.0	1520.0	2.5	300.3	*	300.3	301.1	0.8
382	38,208	305.0	1667.0	2.2	300.8	*	300.8	301.6	0.8
385	38,453	335.0	1682.0	2.2	301.3	*	301.3	302.0	0.7
394	39,441	270.0	1237.0	1.7	302.4	*	302.4	303.3	0.9
398	39,769	340.0	1382.0	1.5	302.9	*	302.9	303.7	0.8
402	40,166	245.0	691.0	3.0	304.0	*	304.0	304.3	0.3
404	40,410	205.0	831.0	2.5	305.0	*	305.0	305.1	0.1
410	41,040	22.0	165.0	12.5	307.9	*	307.9	308.4	0.5
414	41,426	20.0	225.0	9.2	312.0	*	312.0	312.8	0.8
Third Fork Creek Tributary									
001	95	43.0	189.0	4.5	272.9 ¹	270.2	270.2	271.1	0.9
007	740	50.0	276.0	3.1	278.2	278.2	278.2	278.6	0.4
012	1,161	51.0	403.0	2.1	281.8	281.8	281.8	282.7	0.9
017	1,658	56.0	529.0	1.6	286.7	286.7	286.7	287.4	0.7
021	2,080	46.0	291.0	2.9	286.8	286.9	286.8	287.6	0.8
025	2,482	48.0	201.0	4.2	288.8	288.8	288.8	289.8	1.0
028	2,846	26.0	114.0	7.5	292.6	292.6	292.6	293.6	1.0
032	3,200	22.0	123.0	6.9	302.3	302.4	302.3	303.3	1.0
035	3,490	50.0	181.0	5.3	305.5	305.5	305.5	306.1	0.6
040	3,963	57.0	656.0	1.5	318.1	318.1	318.1	318.8	0.7
042	4,159	55.0	459.0	2.1	318.1	318.1	318.1	318.9	0.8
046	4,612	43.0	158.0	6.1	318.4	318.4	318.4	319.3	0.9
050	4,990	38.0	213.0	4.5	323.7	323.7	323.7	324.6	0.9
055	5,490	36.0	174.0	5.5	328.1	328.1	328.1	329.1	1.0
Third Fork Creek Tributary A									
010	983	254.0	627.0	2.4	250.9 ¹	246.0	246.0	246.7	0.7
013	1,314	183.0	473.0	3.2	250.9 ¹	248.7	248.7	249.2	0.5
017	1,743	139.0	556.0	2.7	251.6	251.7	251.6	252.2	0.6
022	2,166	110.0	616.0	2.5	254.1	254.1	254.1	255.1	1.0
027	2,699	100.0	525.0	2.9	255.1	255.1	255.1	256.1	1.0
032	3,190	56.0	299.0	4.5	258.6	258.6	258.6	259.1	0.5
037	3,666	87.0	581.0	2.3	263.2	263.2	263.2	264.0	0.8
042	4,166	87.0	793.0	1.7	268.6	268.6	268.6	269.4	0.8
045	4,515	115.0	822.0	1.6	268.7	268.7	268.7	269.6	0.9
048	4,836	135.0	570.0	2.3	268.9	269.0	268.9	269.7	0.8
054	5,370	54.0	264.0	5.1	271.0	271.1	271.0	271.5	0.5
061	6,126	39.0	181.0	4.3	276.8	276.9	276.8	277.7	0.9
065	6,472	25.0	86.0	9.0	278.3	278.3	278.3	278.6	0.3
Third Fork Creek Tributary C									
034	3,397	210.0	990.0	3.3	256.1 ¹	256.2	256.1	257.1	1.0
040	3,991	220.0	1652.0	2.0	261.1	261.1	261.1	261.8	0.7

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Third Fork Creek Tributary C									
048	4,764	245.0	1828.0	1.6	262.1	262.1	262.1	263.0	0.9
054	5,399	200.0	1145.0	2.5	262.7	262.8	262.7	263.6	0.9
059	5,904	210.0	986.0	2.9	263.3	263.3	263.3	264.2	0.9
061	6,130	235.0	1026.0	2.7	263.6	263.6	263.6	264.5	0.9
070	6,998	190.0	888.0	3.1	266.5	266.6	266.5	267.5	1.0
075	7,494	235.0	984.0	2.8	267.7	267.7	267.7	268.6	0.9
079	7,939	275.0	1122.0	2.5	268.4	268.4	268.4	269.4	1.0
082	8,196	170.0	642.0	3.2	268.8	268.8	268.8	269.8	1.0
092	9,155	220.0	889.0	2.3	272.7	272.8	272.7	273.7	1.0
097	9,738	75.0	283.0	4.6	273.5	273.6	273.5	274.5	1.0
112	11,248	50.0	358.0	3.7	287.5	287.6	287.5	288.4	0.9
118	11,833	35.0	241.0	5.4	288.8	289.0	288.8	289.5	0.7
123	12,301	30.0	193.0	6.8	290.6	290.8	290.6	290.9	0.3
128	12,753	30.0	162.0	7.0	292.0	292.2	292.0	292.6	0.6
132	13,182	17.0	114.0	9.9	294.3	294.4	294.3	294.4	0.1
138	13,790	27.0	198.0	5.7	299.5	299.6	299.5	299.5	0.0
145	14,542	50.0	508.0	2.2	309.3	309.9	309.3	309.7	0.4
148	14,834	50.0	528.0	2.1	309.3	309.9	309.3	309.9	0.6
153	15,295	45.0	429.0	2.6	309.7	310.1	309.7	310.5	0.8
156	15,593	35.0	301.0	3.7	309.8	310.2	309.8	310.7	0.9
160	15,973	30.0	247.0	4.6	310.2	310.5	310.2	311.1	0.9
162	16,229	33.0	184.0	6.1	310.8	311.1	310.8	311.4	0.6
172	17,184	36.0	221.0	4.7	319.1	319.2	319.1	320.0	0.9
Third Fork Creek Tributary D									
001	148	105.0	372.0	4.2	255.4 ¹	248.1	247.7	247.8	0.1
008	750	116.0	489.0	3.2	255.4 ¹	253.5	253.2	254.2	1.0
010	1,028	118.0	351.0	4.5	255.4 ¹	255.4	254.9	255.4	0.5
019	1,859	62.0	270.0	5.9	258.5	258.9	258.5	259.5	1.0
020	1,963	80.0	309.0	5.1	259.7	260.4	259.7	260.1	0.4
023	2,302	64.0	371.0	4.3	261.0	261.7	261.0	261.9	0.9
028	2,750	23.0	180.0	8.8	262.3	263.0	262.3	262.9	0.6
033	3,338	29.0	220.0	7.2	265.3	266.1	265.3	265.7	0.4
043	4,281	30.0	130.0	11.4	268.8	269.5	268.8	268.8	0.0
046	4,606	29.0	176.0	8.4	273.2	274.0	273.2	273.2	0.0
053	5,286	45.0	202.0	7.3	278.4	278.9	278.4	278.7	0.3
058	5,750	62.0	582.0	2.5	288.3	288.7	288.3	289.2	0.9
Third Fork Creek Tributary E									
010	1,000	205.0	1906.0	0.9	294.7	294.9	294.7	295.4	0.7
016	1,583	159.0	1126.0	1.5	294.9	295.1	294.9	295.6	0.7
021	2,068	155.0	1061.0	1.6	295.4	295.5	295.4	296.1	0.7
026	2,623	65.0	342.0	5.0	296.4	296.6	296.4	297.2	0.8
033	3,250	125.0	629.0	3.0	300.4	300.5	300.4	301.1	0.7

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Third Fork Creek Tributary E									
043	4,334	80.0	494.0	1.3	311.0	311.1	311.0	311.3	0.3
048	4,827	58.0	184.0	3.6	311.8	312.2	311.8	312.8	1.0
053	5,321	57.0	292.0	2.3	318.3	318.8	318.3	318.9	0.6
057	5,717	57.0	304.0	2.1	319.6	320.0	319.6	320.3	0.7
062	6,183	35.0	111.0	5.8	324.8	324.8	324.8	325.5	0.7
066	6,561	48.0	267.0	2.4	331.5	331.7	331.5	331.9	0.4
Tributary 1 to Little Lick Creek Tributary 1B									
007	706	220.0	616.0	1.6	301.2 ¹	302.7	297.1	297.1	0.0
011	1,073	157.0	320.0	3.1	301.2 ¹	302.7	297.8	297.8	0.0
015	1,513	87.0	917.0	1.1	310.6	310.7	310.6	311.0	0.4
021	2,147	40.0	127.0	7.7	313.0	313.4	313.0	313.1	0.1
Tributary to Stirrup Iron Creek Tributary A									
010	989	63.0	182.0	4.0	361.7	361.8	361.7	362.5	0.8
015	1,451	65.0	250.0	2.5	367.5	367.5	367.5	368.3	0.8
018	1,761	34.0	136.0	4.6	368.0	368.1	368.0	368.9	0.9
Unnamed Stream									
003	320	349.0	2344.0	0.4	253.2	253.7	253.2	254.1	0.9
006	616	180.0	1077.0	0.8	253.2	253.7	253.2	254.1	0.9
014	1,356	29.0	89.0	8.9	255.2	255.3	255.2	255.4	0.2
019	1,872	157.0	1461.0	0.5	268.2	269.5	268.2	268.2	0.0
025	2,512	84.0	428.0	1.8	268.3	269.5	268.3	268.3	0.0
Unnamed Tributary No. 1 to Stirrup Iron Creek Tributary C									
005	462	32.0	62.0	5.0	362.4	362.4	362.4	362.7	0.3
009	852	32.0	81.0	3.8	367.6	367.8	367.6	368.2	0.6
013	1,334	32.0	77.0	4.0	372.0	372.1	372.0	372.3	0.3
Unnamed Tributary No. 2 to Stirrup Iron Creek Tributary C									
006	617	35.0	121.0	4.4	374.41	374.6	372.6	372.8	0.2
009	864	35.0	104.0	5.1	376.5	376.6	376.5	376.6	0.1
012	1,181	35.0	92.0	5.7	382.0	382.0	382.0	382.1	0.1
Warren Creek									
010	995	215.0	1733.0	3.4	298.4 ¹	*	297.9	298.9	1.0
015	1,500	205.0	1807.0	3.2	299.2	*	299.2	300.2	1.0
020	1,997	215.0	2180.0	2.7	300.8	*	300.8	301.4	0.6
025	2,482	250.0	2439.0	2.4	301.7	*	301.7	302.3	0.6
030	2,996	350.0	2684.0	2.2	302.8	*	302.8	303.2	0.4
034	3,423	85.0	672.0	8.7	302.9	*	302.9	303.2	0.3
044	4,436	692.0	5784.0	1.0	306.4	*	306.4	306.6	0.2
050	4,965	585.0	4118.0	1.4	306.6	*	306.6	306.9	0.3
055	5,496	445.0	3069.0	1.9	307.0	*	307.0	307.3	0.3
058	5,849	389.0	2382.0	2.5	307.5	*	307.5	307.9	0.4
065	6,471	220.0	1443.0	3.0	309.0	*	309.0	309.4	0.4
068	6,781	175.0	1024.0	4.2	310.0	*	310.0	310.2	0.2

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Warren Creek									
073	7,329	285.0	1479.0	2.9	312.4	*	312.4	312.4	0.0
080	7,976	330.0	2280.0	1.9	313.7	*	313.7	314.0	0.3
087	8,691	310.0	1808.0	1.5	314.4	*	314.4	315.1	0.7
093	9,288	139.0	553.0	4.7	315.8	*	315.8	316.2	0.4
099	9,901	105.0	661.0	4.0	321.6	*	321.6	321.7	0.1
103	10,304	169.0	1354.0	1.9	323.0	*	323.0	323.4	0.4
109	10,887	75.0	500.0	5.3	323.8	*	323.8	324.4	0.6
114	11,355	73.0	381.0	7.2	328.1	*	328.1	328.1	0.0
119	11,864	110.0	610.0	4.5	333.8	*	333.8	333.9	0.1
123	12,251	56.0	309.0	2.6	336.3	*	336.3	336.9	0.6
128	12,814	105.0	717.0	1.1	347.7	*	347.7	348.6	0.9
134	13,415	79.0	439.0	1.8	352.9	*	352.9	353.9	1.0
139	13,915	47.0	125.0	5.1	362.5	*	362.5	362.5	0.0
148	14,791	85.0	179.0	3.5	370.4	*	370.4	370.6	0.2
153	15,291	64.0	143.0	4.4	377.6	*	377.6	377.7	0.1
158	15,791	50.0	160.0	3.9	383.1	*	383.1	383.2	0.1
162	16,175	105.0	418.0	1.5	386.0	*	386.0	386.6	0.6
Warren Creek Tributary 1									
003	300	31.0	197.0	7.6	334.7 ¹	*	333.7	334.7	1.0
005	507	55.0	324.0	4.6	337.2	*	337.2	338.1	0.9
007	685	60.0	335.0	4.5	338.9	*	338.9	339.9	1.0
Warren Creek Tributary A									
005	504	255.0	849.0	2.2	314.1 ¹	*	313.5	314.5	1.0
010	992	270.0	941.0	2.0	316.2	*	316.2	317.1	0.9
014	1,394	81.0	602.0	3.1	326.8	*	326.8	326.8	0.0
020	2,005	73.0	251.0	7.4	334.8	*	334.8	334.9	0.1
025	2,472	100.0	316.0	5.9	346.6	*	346.6	346.6	0.0
028	2,751	75.0	245.0	7.6	352.0	*	352.0	352.0	0.0
032	3,227	105.0	316.0	5.9	359.4	*	359.4	359.5	0.1
038	3,757	60.0	220.0	8.5	372.9	*	372.9	372.9	0.0
044	4,361	105.0	517.0	3.6	378.0	*	378.0	378.3	0.3
048	4,755	110.0	507.0	3.7	379.2	*	379.2	379.5	0.3
055	5,513	173.0	589.0	2.7	381.1	*	381.1	381.4	0.3
Warren Creek Tributary B									
005	509	145.0	281.0	7.0	308.6 ¹	*	307.8	307.8	0.0
010	991	120.0	813.0	2.4	313.4	*	313.4	314.4	1.0
015	1,497	125.0	464.0	4.3	315.1	*	315.1	315.8	0.7
020	1,995	75.0	363.0	5.5	317.6	*	317.6	318.6	1.0
025	2,532	65.0	265.0	7.5	322.0	*	322.0	322.4	0.4
030	2,992	90.0	418.0	4.7	325.9	*	325.9	326.1	0.2
036	3,608	44.0	627.0	3.2	339.5	*	339.5	339.9	0.4
039	3,888	122.0	1317.0	1.5	339.5	*	339.5	340.0	0.5

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Warren Creek Tributary B									
044	4,413	105.0	755.0	2.6	339.7	*	339.7	340.3	0.6

¹Elevation includes backwater effects

²Elevation computed without consideration of flooding effects from New Hope Creek

* Future conditions not computed for this stream

** Values not computed for this station

6.4 Coastal Flood Hazard Mapping

This section is not applicable to this FIS project.

Table 23, Summary of Coastal Transect Mapping Considerations, is not applicable to Durham County.

7.0 Revising the FIS

7.1 Letters of Map Amendment and Letters of Map Revision - Based on Fill

LOMAs and LOMR-Fs are documents issued by FEMA that officially remove a property and/or a structure from a Special Flood Hazard Area (SFHA), if data supporting the removal are submitted. LOMAs and LOMR-Fs are generally determinations regarding areas that are too small to be shown on a FIRM panel; consequently, the changes they describe become official without revising the FIRM or the FIS Report.

NFIP regulations require that the lowest adjacent grade (the lowest ground touching the structure) be at or above the 1% annual chance flood elevation for a LOMA to be issued. Currently, there is no fee for FEMA's review of a LOMA request, but the requester of a LOMA is responsible for providing all the information needed for the review, which may include structure and/or property elevations certified by a licensed land surveyor or professional engineer. Therefore, LOMA requesters may need to retain the services of a land surveyor or engineer.

A LOMA cannot be used for property on which fill has been placed. For those situations, a LOMR-F must be used. As a participant in the NFIP, a local government must adopt ordinances that meet the minimum Federal floodplain management standards, which are outlined in Section 60.3 of the NFIP regulations. For a number of reasons, these ordinances generally vary from community to community. Nonetheless, because the placement of fill within the floodplain can affect flood hazards in the surrounding area, additional information is needed before FEMA can process a LOMR-F request. Among the data required for a LOMR-F is the community acknowledgment form. This form is FEMA's assurance that all appropriate Federal, State, and local floodplain management requirements have been met. Furthermore, NFIP regulations require that the lowest adjacent grade (the lowest ground touching the structure) be at or above the 1% annual chance flood elevation for a LOMR-F to be issued removing the structure from the floodplain. Because LOMR-F requests are the result of changed physical conditions rather than limitations of scale or topographic definition, FEMA charges a fee for the review of a LOMR-F request. As with the LOMA, the requester of a LOMR-F is responsible for providing all supporting information, including structure and/or property elevation data.

In cases where property owners plan to add fill in the SFHA, NFIP regulations require plans and technical information to be submitted for review by FEMA before construction takes place. FEMA will issue a conditional LOMR-F stating how flood hazards would change and what portions of the property, if any, would remain in the SFHA if the project were built according to the submitted plans.

The issuance of a LOMA or LOMR-F ends the property owner's obligation to purchase flood insurance as a condition of Federal or federally backed financing. However, the property owner's mortgage company maintains the prerogative to require flood insurance as a condition of providing financing. Before attempting to obtain a LOMA or LOMR-F, property owners are advised to consult their mortgage companies regarding this policy. Even if the mortgage company indicates that it will require flood insurance if a LOMA or LOMR-F is issued, it may be advantageous for property owners to request a LOMA or LOMR-F because flood insurance premiums are lower for properties removed from the SFHA than for properties that remain within the SFHA.

For additional information regarding LOMAs, LOMR-Fs, conditional LOMR-Fs, or current application fees, please call the FEMA Map Information eXchange (FMIX) toll-free information line at 1-877-FEMA MAP (1-877-336-2627).

7.2 Letters of Map Revision

A Letter of Map Revision (LOMR) is a document issued by FEMA and the NCFMP that revises an FIS Report and/or FIRM. A LOMR is used to change flood risk zones, floodplain and/or floodway delineations, flood elevations, or planimetric features such as road systems or corporate limits. A LOMR provides FEMA and the NCFMP with a cost-effective means of revising the FIS information without physically changing and reprinting the map or report itself. A portion of the FIRM panel or FIS Report showing the revised information is issued with the LOMR. The LOMR is sent to all affected communities and is archived in the communities' NFIP map repository for public reference.

In cases where a proposed project (such as construction in the 1% annual chance floodplain) would result in a significant rise in 1% Flood Insurance Study Report: DURHAM COUNTY, NORTH CAROLINA AND INCORPORATED AREAS
Effective Date: July 19, 2022

annual chance water-surface elevations, NFIP regulations require the community to submit plans and technical information for review by FEMA and the NCFMP before construction takes place. This assures communities participating in the NFIP that proposed projects meet minimum NFIP requirements. The result of FEMA and the NCFMP reviews is documented in a conditional LOMR.

For additional information regarding LOMRs, conditional LOMRs, or current application fees, please call the FEMA Map Assistance Center toll-free information line at 1-877-FEMA MAP (1-877-336-2627) or the NCFMP at 919-715-5711.

7.3 Physical Map Revisions

Physical Map Revisions (PMRs) are processed to incorporate information concerning conditions present in the community that are not reflected in the FIS, and involve distributing republished FISs that supersede the most current NFIP data in the community repository. PMRs may be initiated by a request from a community resident or agency, or FEMA may initiate a PMR to incorporate one or more LOMRs, to reflect significant changes in corporate limits, to correct errors, or to update flood hazards to match new information from an adjacent community’s FIS. Due to the costs associated with updating and distributing FISs, map revisions will be processed as LOMRs rather than PMRs whenever possible. For more information regarding PMRs, please contact the FEMA Map Information eXchange (FMIX) toll-free information line at 1-877-FEMA MAP (1-877-336-2627), the FEMA Regional Office at the address listed on the Notice to Flood Insurance Study Users page at the front of this report, or the NCFMP at 919-715-5711.

7.4 Contracted Restudies

The NFIP provides for a periodic review and restudy of flood hazards in a given community. FEMA accomplishes this through a national mapping needs assessment process that assigns priorities and allocates funds to sponsor or subsidize new flood hazard analyses used to update FIS Reports. For map maintenance restudies within the state of North Carolina, scoping will be performed by county approximately 2.5-3.5 years after the previous effective date. Scoping will focus on streams with restudy needs within those previously effective counties rather than on full countywide restudies. A restudy refers specifically to updating or reevaluating engineering analyses that were performed for a flood mapping project that directly impact BFEs and/or flood hazard boundary extents or analysis of previously unstudied flood prone areas. Restudy project evaluation triggers and prioritization values are an essential component of the map maintenance program. For more information regarding NCFMP-contracted restudies, please contact the NCFMP at 919-715-5711 or at www.ncfloodmaps.com. For more information regarding FEMA-contracted restudies, please contact the FEMA Map Information eXchange (FMIX) toll-free information line at 1-877-FEMA MAP(1-877-336-2627) or the FEMA Regional Office at the address listed on the Notice to Flood Insurance Study Users page at the front of this report.

7.5 Map Revision History

The current FIRM is a subset of the Statewide FIRM, showing flood hazard information for the entire geographic area of Durham County. Previously, separate Flood Hazard Boundary Maps (FHBMs), Flood Boundary and Floodway Maps (FBFMs), and/or FIRMs were prepared for each identified flood prone jurisdiction within the county. Historical data relating to the NFIP maps prepared for each community prior to and including the 8/2/2007 North Carolina Statewide FIRM, which includes Durham County, are presented in Table 24, “Map Revision History.”

Information pertaining to revised and unrevised flood hazards for each jurisdiction within Durham County has been compiled into this FIS. Therefore, this FIS supersedes all previously printed FIS Reports, FHBMs, FIRMs, and/or FBFMs for all of the incorporated and unincorporated jurisdictions within Durham County.

Table 24 - Map Revision History

Community	Initial Identification Date	Initial FIRM Effective Date	FIRM Revision Date
CITY OF DURHAM	1/25/1974	1/17/1979	07/19/2022
CITY OF DURHAM	1/25/1974	1/17/1979	10/19/2018
CITY OF DURHAM	1/25/1974	1/17/1979	05/16/2008
CITY OF DURHAM	1/25/1974	1/17/1979	08/02/2007
CITY OF DURHAM	1/25/1974	1/17/1979	02/02/2007
CITY OF DURHAM	1/25/1974	1/17/1979	05/02/2006
CITY OF RALEIGH	6/28/1974	8/15/1978	07/19/2022
CITY OF RALEIGH	6/28/1974	8/15/1978	05/02/2006
DURHAM COUNTY	1/31/1975	2/15/1979	07/19/2022
DURHAM COUNTY	1/31/1975	2/15/1979	12/06/2019

Table 24 - Map Revision History

Community	Initial Identification Date	Initial FIRM Effective Date	FIRM Revision Date
DURHAM COUNTY	1/31/1975	2/15/1979	10/19/2018
DURHAM COUNTY	1/31/1975	2/15/1979	05/16/2008
DURHAM COUNTY	1/31/1975	2/15/1979	08/02/2007
DURHAM COUNTY	1/31/1975	2/15/1979	06/04/2007
DURHAM COUNTY	1/31/1975	2/15/1979	04/16/2007
DURHAM COUNTY	1/31/1975	2/15/1979	02/02/2007
DURHAM COUNTY	1/31/1975	2/15/1979	05/02/2006
TOWN OF CHAPEL HILL	6/21/1974	4/17/1978	07/19/2022
TOWN OF CHAPEL HILL	6/21/1974	4/17/1978	10/19/2018
TOWN OF CHAPEL HILL	6/21/1974	4/17/1978	11/17/2017
TOWN OF CHAPEL HILL	6/21/1974	4/17/1978	05/16/2008
TOWN OF CHAPEL HILL	6/21/1974	4/17/1978	02/02/2007
TOWN OF MORRISVILLE	10/29/1978	11/1/1978	07/22/2022
TOWN OF MORRISVILLE	10/29/1978	11/1/1978	10/19/2018
TOWN OF MORRISVILLE	10/29/1978	11/1/1978	05/02/2006

8.0 Study Contracting and Community Coordination

8.1 Authority and Acknowledgments

The sources of authority for this FIS are the National Flood Insurance Act of 1968 and the Flood Disaster Protection Act of 1973.

This FIS revises and updates the previous countywide FIS for the geographic area of Durham County and Incorporated Areas. Table 25, "Authority and Acknowledgments," includes information for the previous countywide FIS and for this revision. This table also includes information for the single-jurisdiction FISs published for each community included in this countywide FIS (if available) as compiled from their previously printed FIS Reports.

Table 25 — Authority and Acknowledgments

Community	FIS Dated	Study Contracted By	Data Source	Contract or IAA Number	Work Completed In
DURHAM COUNTY	7/19/2022	NCFMP	NCFMP	EMA-2009-CA-5933	1/6/2022
DURHAM COUNTY	12/6/2019	NCFMP	NCFMP	EMA-2009-CA-5933	2/13/2019
DURHAM COUNTY	10/19/2018	NCFMP	NCFMP	EMA-2009-CA-5933	1/11/2018
DURHAM COUNTY	8/2/2007	NCFMP	NCFMP	286-000022	2/8/2005
DURHAM COUNTY	5/2/2006	NCFMP	NCFMP	286-000022	2/8/2005

This FIS Report was produced through a unique cooperative partnership between the State of North Carolina and FEMA. The State of North Carolina, through FEMA's Cooperating Technical Partner (CTP) Initiative, has become the first Cooperating Technical State (CTS) and will assume primary ownership of the NFIP FIRM panels for all North Carolina communities. This role has traditionally been fulfilled by FEMA. The North Carolina Floodplain Mapping Program is conducting flood hazard analyses and producing updated, digital FIRM panels. The hydrologic and hydraulic analyses and the FIRM panels for the initial statewide mapping for Durham County were produced by NCFMP under contract with the State of North Carolina and issued on effective 5/2/2006. For this revision, the hydrologic and hydraulic analyses and the FIRM panels were produced by NCFMP, under contract with the State of North Carolina.

8.2 Scoping/CCO/Public Meetings

For each FIS produced during the initial phase of statewide, an Initial Scoping Meeting was held with representatives from FEMA, the county, the incorporated communities, and the State of North Carolina. A Final Scoping meeting was held to review the Draft Basin Plan and finalize the streams to be studied by detailed methods. This information was then used to create the Final Basin Plan. For map maintenance revisions, only one scoping meeting was held to identify the streams to be newly studied by detailed methods, redelineated, or to be studied by limited detailed methods. This information was then used to create the Map Maintenance Plan.

The historical dates of the Initial and Final Scoping Meetings held during the first round of statewide mapping for Durham County are shown in Table 26, "Scoping Meetings." Meetings held for the map maintenance revision are also included below for Durham County.

Table 26 — Scoping Meetings

Community	River Basin	Initial Scoping Date	Attended By	Final Scoping Date	Attended By
DURHAM COUNTY	CAPE FEAR	11/27/2000	Representatives of the county, FEMA, NCDem, NC CGIA, and Dewberry	3/6/2001	Representatives of the county, NCDem, NC CGIA, Dewberry, and Greenhorne & O'Mara
DURHAM COUNTY	NEUSE	11/27/2000	Representatives of the county, FEMA, NCDem, NC CGIA, and Dewberry	4/23/2001	Representatives of the county, FEMA, NCDem, NC CGIA, and Dewberry
DURHAM COUNTY	CAPE FEAR/NEUSE	N/A	N/A	6/4/2008	Representatives of the county, communities, FEMA, NCFMP, NCEM, and Dewberry

Consultation Coordination Officer's Meetings are held in each county to disseminate and review the FIS Report and FIRM panels. This meeting is required by FEMA. Public Participation Meetings are not required by FEMA, but provide an opportunity to review and discuss the FIS Report and FIRM panels for each jurisdiction in a public setting. The dates for the consultation coordination officer's and public participation meetings are shown in Table 27, "Consultation Coordination Officer's and Public Participation Meetings."

Table 27 - Consultation Coordination Officer's and Public Participation Meetings

Community	For FIS Dated	Meeting Location	Final CCO Meeting Date	Attended By	Public Meeting Date	Attended By
DURHAM COUNTY	5/2/2006, 2/2/2007, 4/16/2007, 6/4/2007, 8/2/2007, 5/16/2008	Durham, Raleigh	3/23/2004 7/28/2005	Representatives of Durham county, Durham County incorporated communities, the NCFMP and study contractors	5/11/2004 7/28/2005	Durham County, Durham County incorporated Communities and The Public
DURHAM COUNTY	10/19/2018, 12/6/2019, 7/19/2022	Durham	5/26/2015	Representatives of Durham county, Durham County incorporated communities, the NCFMP and study contractors	7/28/2016	Durham County, Durham County incorporated Communities and The Public

9.0 Guide to 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 <http://www.fema.gov>.

The Map Repositories table below lists locations where FIRMs for Durham 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 28 — Map Repositories

Community	Address	City	State	Zip Code
City of Durham	City Hall 101 City Hall Plaza	Durham	NC	27701
Durham County	Durham Government Office 101 City Hall Plaza	Durham	NC	27701
Town of Chapel Hill	Stormwater Management Program Office, 208 North Columbia Street	Chapel Hill	NC	27514
City of Raleigh	Engineering Services Department, One Exchange Plaza, Suite 706	Raleigh	NC	27601
Town of Morrisville	Planning Department Town Hall 100 Town Hall Drive	Morrisville	NC	27560

9.1 Additional Information

All FIRM panels created for the State of North Carolina are produced in a seamless statewide format; however, FIS Reports are produced for individual counties.

Copies of FIRM panels are available for a nominal fee. To obtain a copy of the current flood map for a specific community, contact the FEMA Map Service Center at 1-800-358-9616. To facilitate the processing of your request, please review the current flood map on file at your local community repository and obtain the panel number in which you are interested. If necessary, users may also order a FIRM Index from the Map Service Center to determine the appropriate panel numbers. The Map Service Center also accepts orders for the Community Status Book and the Flood Insurance Manual. The FIS Report, FIRM panels, and digital data used to produce the

FIRM panels are available online at www.ncfloodmaps.com.

Information concerning the data used in the preparation of this FIS, contained in an Engineering Study Data Package, may be obtained by contacting the FEMA Regional Office at the address listed on the Notice to Flood Insurance Study Users page at the front of this report.

Table 29, "Additional Information" is not applicable in Durham County.

10.0 Appendix

10.1 Bibliography

All bibliography and reference information associated within this Flood Insurance Study are maintained and accessible within the geodatabase structure and associated metadata. Users requiring more specific information should contact the North Carolina Floodplain Mapping Program (NCFMP) at www.ncfloodmaps.com under the Contacts menu:

NC Floodplain Mapping Program

4218 Mail Service Center

Raleigh, NC 27699-4218

Phone: 919-715-5711

Fax: 919-715-0408

Email: frishelp@ncdps.gov