

Trout

office estimate
Main Brg = 40'
No FEMA No mo
No State Stormwater

Print Record

Form PDR Action PDR P/P 412

GENERAL INFO

Date 5/23/2011 Div WBS TIP #
13 Proj #
Let Date

County MITCHELL Bridge # 93

Road # SR 1330 Road Name: HUGHES GAP RD

Stream WILES CR

Reg Type Name Assigned To Checked By
Prior Survey Survey Date Recommendation
Study by Scour Section

DRAINAGE INFO

Flood Zone NO Panel # 0866 Study Type NO STUDY Study Date

IS THERE A HEC RAS TYPE MODEL ☐

BM info

Quad BAKERSVILLE

Drainage Area 1.65 Sq. Mi. DA Source QUAD

Q25 575 cfs Q 50 700 cfs Q100 825 cfs

METHOD USGS REGRESSION EQUATION BASIN TYPE REGION 2

EXISTING INFO

Location 0.4 MI. S. JCT. SR1332

GPS CO-ORD(Dec) 82.1827 36.1197

OAL 19 B-C 6 Depth 1

ADT 690 Skew 90 Stream Slope

STRUCTURE TYPE TIMBER DECK/ TIMBER JOISTS

Spans 1 @ 18'-6

UP STREAM INFO

US Structure US Road # US Str OAL

US Location

US B-C US Prior survey

DOWN STREAM INFO

DS Structure DS Road # DS Str OAL

DS Location

DS B-C DS Prior survey SCS Watershed

ENVIRONMENTAL INFO

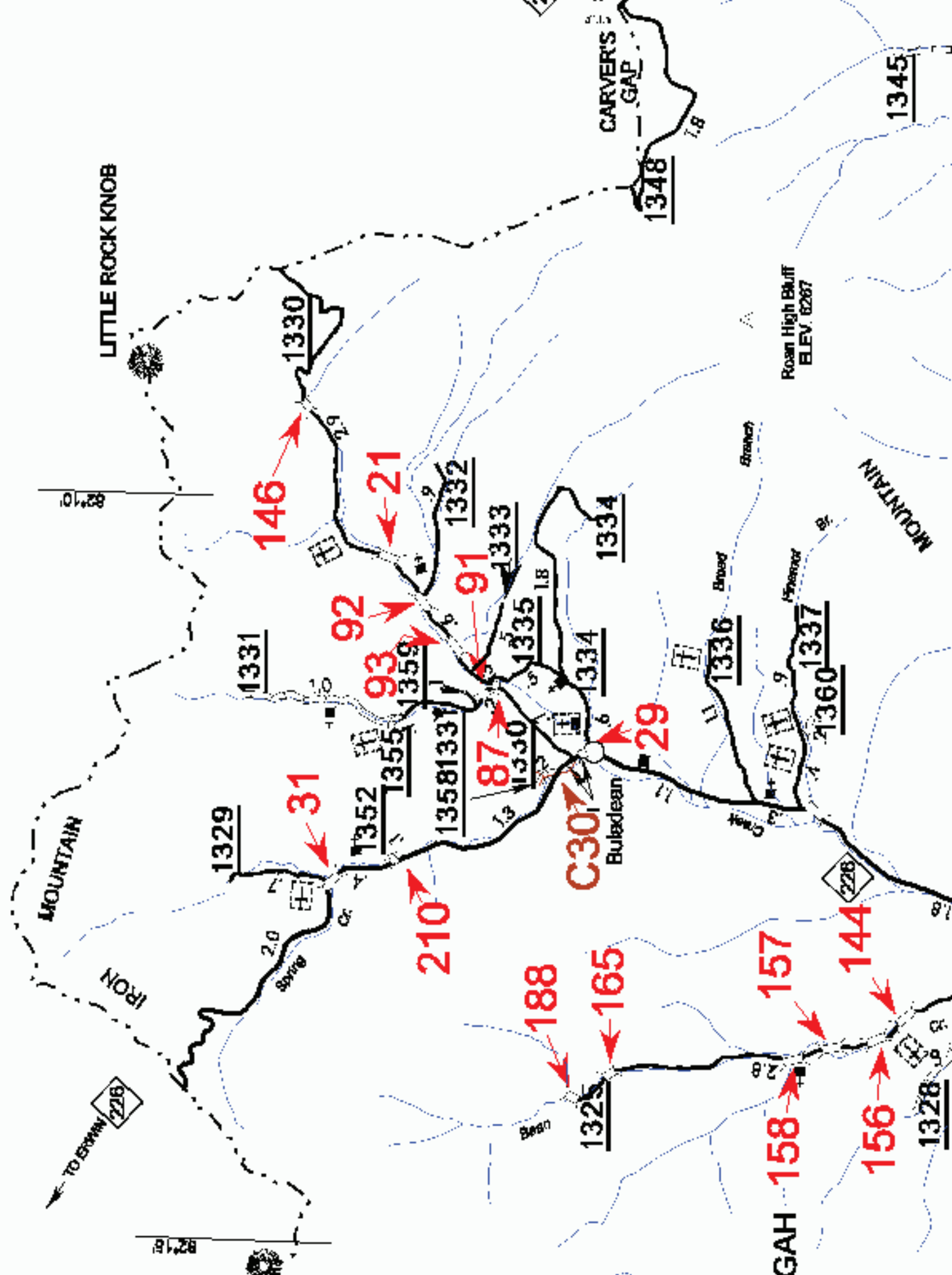
Trout Stream YES Anadromous Fish NO Primary Nursery Area NO

High Quality Waters NO NUTRIENT SENSITIVE WATERS NO

NEAR WATER SUPPLY INTAKE NO CAMA COUNTY NO

STREAM CLASSIFICATION C;Tr

DENR RIVER BASIN FRENCH BROAD





NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY MITCHELL BRIDGE NUMBER 600093 INSPECTION CYCLE 2 YRS
ROUTE SR1330 ACROSS CREEK M.P. 0

LOCATION .4 MI.S.JCT.SR1332

SUPERSTRUCTURE TIMBER FLOOR ON TIMBER JOISTS

SUBSTRUCTURE E.BTS:TIMBER CAPS/TIMBER POST&SILLS @ 5'-9 CENTERS

SPANS 1 @ 18'-6

LONGITUDE 82° 10' 57.8"

LATITUDE 36° 7' 10.9"

PRESENT CONDITION FAIR

INVENTORY RATING

INSPECTION DATE 11/12/2009

OPERATING RATING

PRESENT POSTING SV 9 TTST 16

PROPOSED POSTING

COMPUTER UPDATE

ANALYSIS DATE

POSTING LETTER DATE

SUFFICIENCY RATING

OTHER SIGNS PRESENT Delineators, Narrow Bridge



NORTH

SIGN NOTICE ISSUED FOR	NUMBERED REQUIRED
<u>No</u> WEIGHT LIMIT	<u></u>
<u>No</u> DELINEATORS	<u></u>
<u>No</u> NARROW BRIDGE	<u></u>
<u>No</u> ONE LANE BRIDGE	<u></u>
<u>No</u> LOW CLEARANCE	<u></u>

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 03/30/2010

COUNTY :	DIV :	DIST :	STRUCTURE NUMBER :	LENGTH :		
MITCHELL	13	1	600093	19	FEET	
ROUTE CARRIED :		FEATURE INTERSECTED :				
SR1330		CREEK				
LOCATED :		BRIDGE NAME :				
.4 MI.S.JCT.SR1332						
FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :		
08	NFA	NFA	690 2008	LT 227 RT 227		
BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :		
1961	BMU			Other or Unknown		
REHAB :	BY :	PROJ :	ALIGNMENT :	SKEW :	LANES :	
	BMU	5.8851	TAN	90	ON 2 UNDER	
NAVIGATION :		HT. CRN. TO BED :		WATER DEPTH :		
VC	0.0 FT	HC	0.0 FT	6 FT	1 FT	
SUPERSTRUCTURE :		TIMBER FLOOR ON TIMBER JOISTS				
SUBSTRUCTURE :		E.BTS:TIMBER CAPS/TIMBER POST&SILLS @ 5'-9 CENTERS				
SPANS :		1 @ 18'-6				
BEAMS OR GIRDERS :		11 LNS.6X12 TIM.JSTS.& 2 LNS.6X12 DBL.TIM.JSTS.@ VAR.CTS.				
FLOOR :	ENCROACHMENT :		DECK (OUT TO OUT) :			
4X8 TIM/4.5 AWS			20.0 FT			
CLEAR ROADWAY :	BETWEEN RAILS :		SIDEWALK OR CURB :			
19.0 FT	19.7 FT		LT 0.3 FT RT 0.3 FT			
VERT.CL.OVER :	VERT.CL.UNDER :		HOR.CL.UNDER :			
99 FT 99 IN	00 FT 00 IN		0.0 FT			
INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :			
HS-3	HS-4	Int.jsts	SV 9	TTST 16	DATE 06/05/2006	
SYSTEM :		GREEN LINE ROUTE :				
Secondary S.R. Route		N				
2ND OPENING :		3RD OPENING :		4TH OPENING :		5TH OPENING :
REMARKS :						

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 600093 County: MITCHELL Date: 11/12/2009 By: RWS

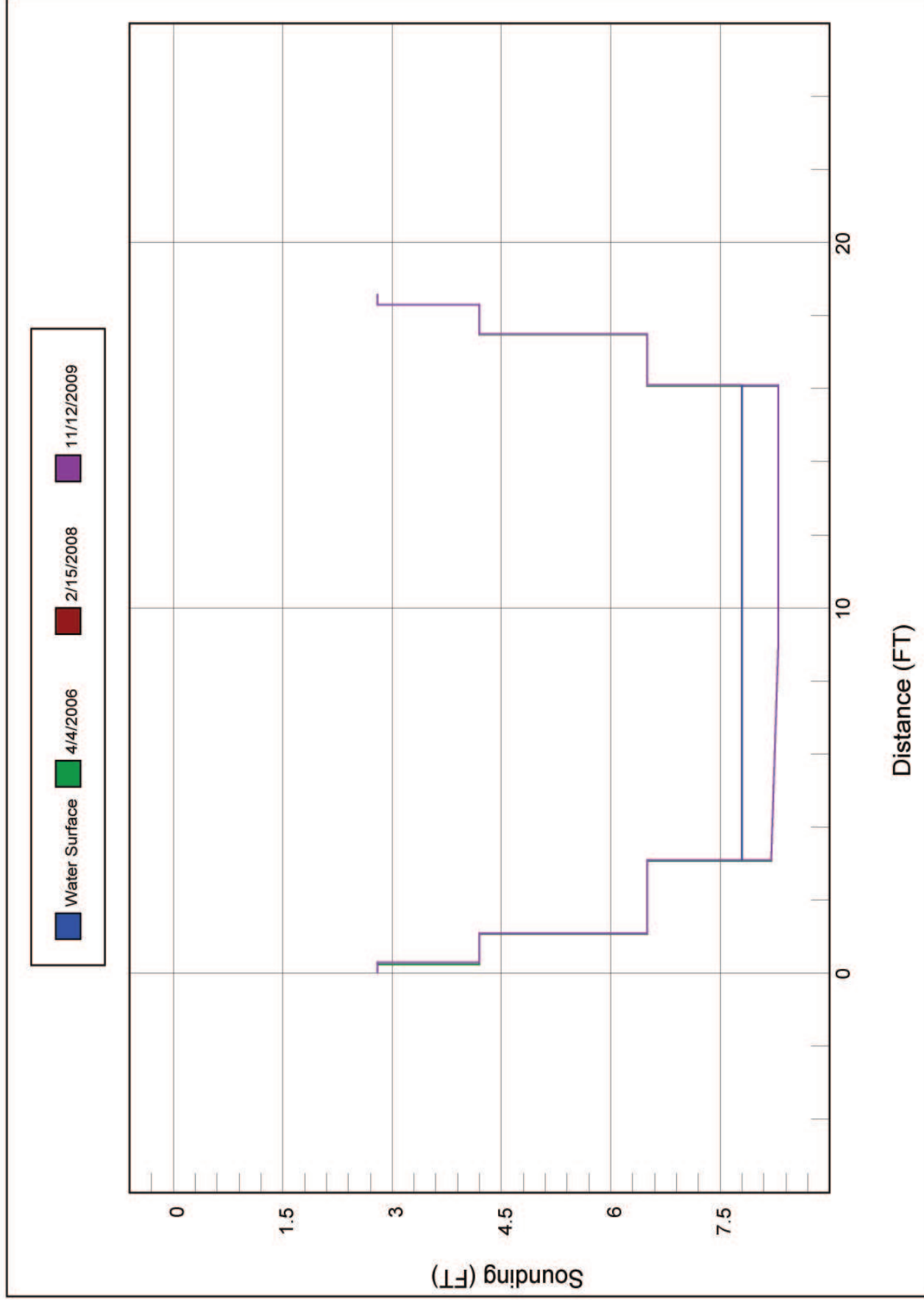
Record sounding from top of rail. Other location if needed: _____

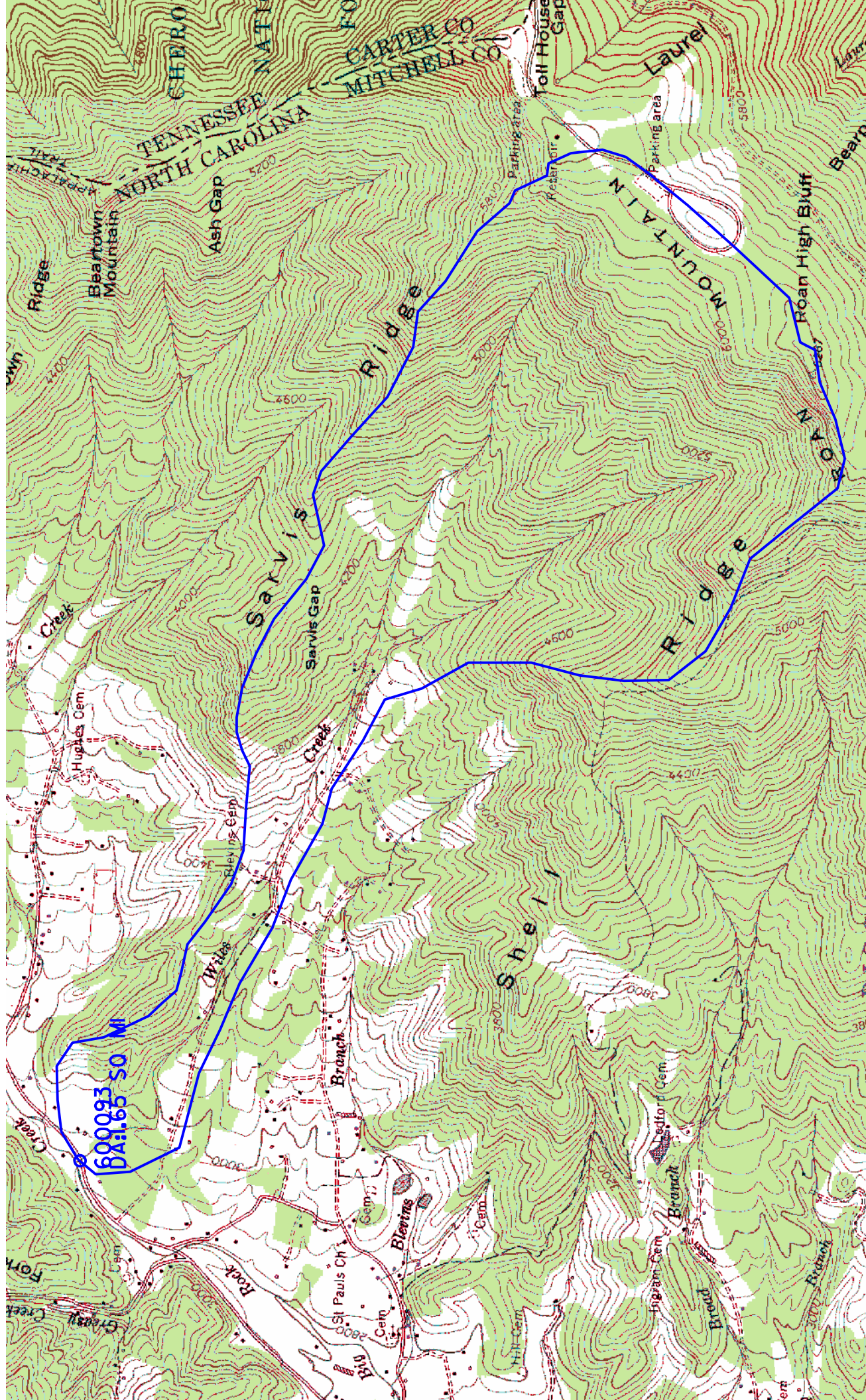
Distance from Highwater Mark to top of rail: _____ Location of Highwater Mark: _____

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	2.8				
0.3	2.8				
0.3	4.2				
1.1	4.2				
1.1	6.5				
3.1	6.5				
3.1	7.8	Water Surface/Water Edge (WSWE)			
3.1	8.2				
9.1	8.3				
16.099	8.3				
16.1	7.8	Water Surface/Water Edge (WSWE)			
16.101	6.5				
17.5	6.5				
17.501	4.2				
18.3	4.2				
18.301	2.8				
18.6	2.8				

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)





This spreadsheet computes the 50-, 20-, 10-, 4-, 2-, 1-, 0.5-, and 0.2-percent chance exceedance flows for an ungaged site in Georgia, South Carolina, and North Carolina. The spreadsheet also includes the 95-percent prediction intervals, the minus and plus standard error of prediction intervals, and the average standard error of prediction. To use the spreadsheet, enter requested information in the yellow cells below.

Enter a site-description name: 600093

Enter the explanatory variables:

Drainage area, in square miles	1.65
Percent of basin in Hydrologic Region 1	
Percent of basin in Hydrologic Region 2	100
Percent of basin in Hydrologic Region 3	
Percent of basin in Hydrologic Region 4	
Percent of basin in Hydrologic Region 5	

Applicable range of drainage area is 1 to 9,000 square miles.
Hydrologic Region 1 corresponds to the USEPA Level III Ridge and Valley and Piedmont ecoregions
Hydrologic Region 2 corresponds to the USEPA Level III Blue Ridge ecoregion
Hydrologic Region 3 corresponds to the USEPA Level IV Sand Hills ecoregion
Hydrologic Region 4 corresponds to the USEPA Level III Southeastern, Middle Atlantic Coastal, and Southern Coastal Plain ecoregions
Hydrologic Region 5 corresponds to the lower portion of the USEPA Level IV Tifton Uplands ecoregion.

Sum of region percentages	100

Drainage area check
DRAINAGE AREA WITHIN APPLICABLE LIMITS.

Percent chance exceedance	Percent chance exceedance flow, in ft ³ /s	Lower 95 percent prediction interval flow, in ft ³ /s	Upper 95 percent prediction interval flow, in ft ³ /s	-S _{PH} (percent)	+S _{PH} (percent)	Average S _{PH} (percent)
50	162	83	318	-29.1	41.0	35.4
20	304	156	592	-28.8	40.5	35.0
10	417	209	830	-29.6	42.1	36.3
4	572	275	1,190	-31.2	45.4	38.8
2	686	316	1,490	-32.6	48.4	41.1
1	822	363	1,860	-34.1	51.6	43.5
0.5	942	399	2,230	-35.5	55.1	46.1
0.2	1,130	450	2,840	-37.5	59.9	49.7

