

OFFICE ESTIMATE

2@ 8x7 RCBC

Project# _____
TIP# _____
Let Date _____

PREDESIGN-PRESURVEY REPORT

WBS# 17BP.14.R.97

County HAYWOOD (DIV. 14)

Bridge# 430305 ✓
Road# SR 1503 ✓
Stream LINER CREEK ✓

Type Of Request: POC Force Account TIP NCMA

Date 8/27/13 Name Wsh

Assigned To RCH

Checked By _____

Prior Survey Date NONE (attach copy of prior survey) BRN. NO ✓ CO. FILE: NO ✓

Study By Scour Section NONE

Flood Zone X Detail Study NONE Date _____ Panel# 8750

B.M. Info N/A (600 acres)

Quad Map _____ Drainage Area 0.94 Sq. Mi. From STREAM STATS
Q25 = 380 cfs Q50 = 500 cfs Q100 = 600 cfs Method RURAL HC=7
NCDOT CHARTS
200.1
200.2

EXISTING BRIDGE INFORMATION

Location 3 MI. N. Jct. SR 1508

Average Daily Traffic 500 (2008) 6% TRK.

Length 16' Bed- To Crown 6' Water Depth 1'

Type Structure TIMBER : FLR, JOIST, POST, SILLS, CAPS

Type Spans 1 @ 15' 10"

Upstream Structure NO #ed STRUCTURES U/S

Location _____

Bed- To Crown _____ Prior Survey _____

Downstream Structure 178 (ON SR 1503) (BRG) 1 @ 25' 6" / L=26'

Location 2.5 MI. E. Jct. SR 1505

Bed- To Crown 8' (H₂O = 1' DEEP) Prior Survey _____

SCS Watershed _____

(ESM-YELLOW-UNDESIGNATED) ENVIRONMENTAL

TVA YES ✓

Trout Stream NO Anadromous Fish NO Primary Nursery Area NO

High Quality Waters NO Nutrient Sensitive Waters NO

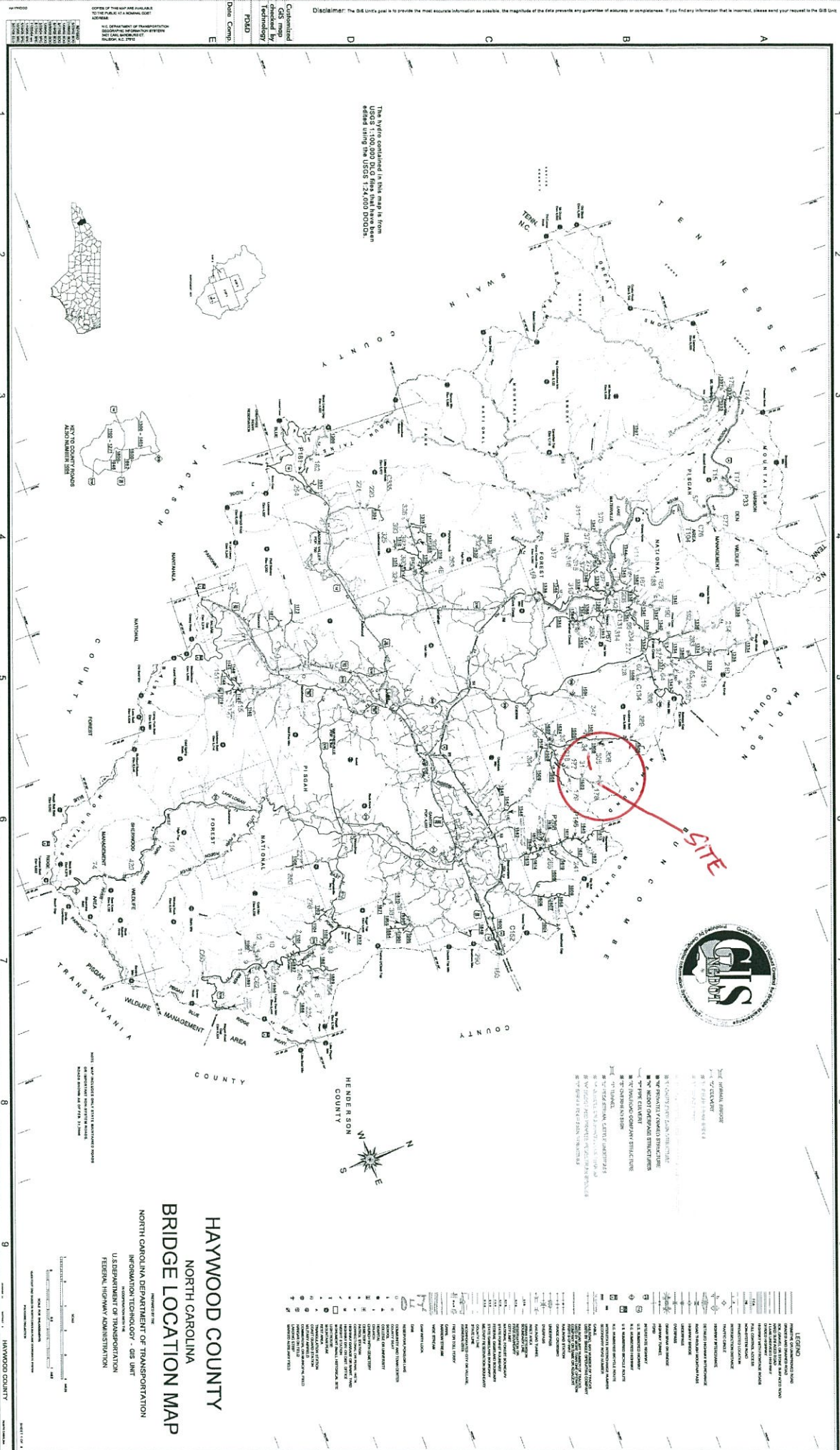
Near Water Supply Intake NO CAMA County NO ✓

Stream Classification C (04-03-05)

DENR River Basin Info. FRENCH BROAD

LAT 35-37-24.11

LONG: 82-51-52.70



Disclaimer: The GIS Unit provides the best available information as to the accuracy of the data presented. It does not warrant or guarantee the accuracy or completeness of the data. If you find any information that is incorrect, please send your report to the GIS Unit.

Customized GIS map of Haywood County, North Carolina. The map is based on the 1:50,000 scale USGS 7.5-minute topographic map. The map is produced using the GIS Unit's software and data. The map is available for public use.

Legend

- 1. Haywood County Boundary
- 2. North Carolina Boundary
- 3. USGS 7.5-minute Topographic Map
- 4. USGS 1:50,000 Scale
- 5. USGS 7.5-minute Topographic Map
- 6. USGS 1:50,000 Scale
- 7. USGS 7.5-minute Topographic Map
- 8. USGS 1:50,000 Scale
- 9. USGS 7.5-minute Topographic Map
- 10. USGS 1:50,000 Scale

Scale

1 inch = 1 mile

1:50,000

North Arrow

Haywood County

North Carolina

Bridge Location Map

USGS 7.5-minute Topographic Map

USGS 1:50,000 Scale

USGS 7.5-minute Topographic Map

USGS 1:50,000 Scale

USGS 7.5-minute Topographic Map

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USGS 1:50,000 Scale

USGS 7.5-minute Topographic Map

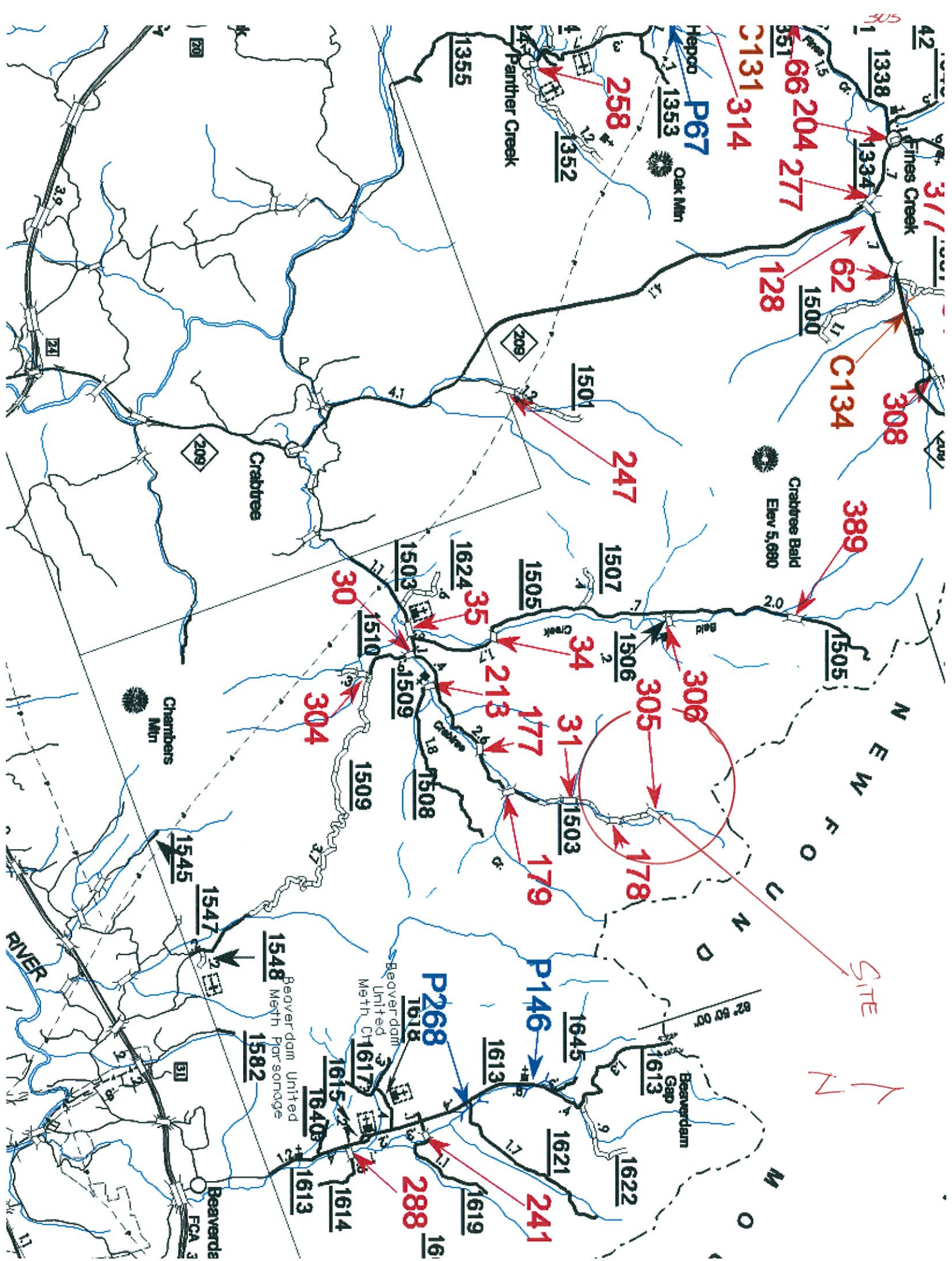
USGS 1:50,000 Scale

USGS 7.5-minute Topographic Map

USGS 1:50,000 Scale

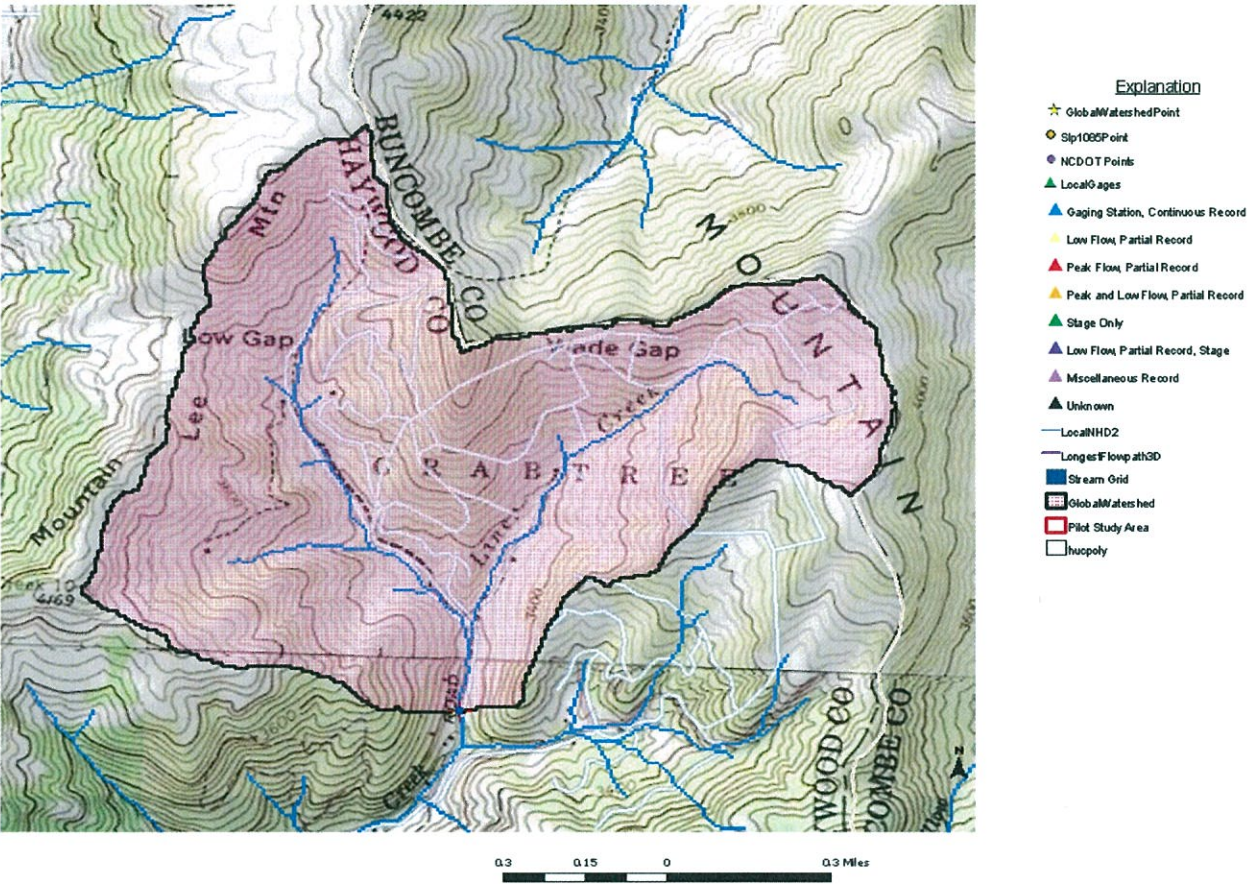
USGS 7.5-minute Topographic Map

USGS 1:50,000 Scale





StreamStats Print Page



8/27/2013 3:23:28 PM



North Carolina StreamStats

Streamstats Ungaged Site Report

Date: Tue Aug 27 2013 15:23:50 Mountain Daylight Time

Site Location: North_Carolina

NAD27 Latitude: 35.6234 (35 37 24)

NAD27 Longitude: -82.8649 (-82 51 54)

NAD83 Latitude: 35.6235 (35 37 25)

NAD83 Longitude: -82.8648 (-82 51 53)

Drainage Area: 0.94 mi²

Percent Urban: 2.7 %

Percent Impervious: 0.1 %

Peak Flows Region Grid Basin Characteristics			
100% Peak Southeast US 2009 5158 (0.94 mi ²)			
Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	0.94 (below min value 1)	1	9000
Percent Area in Region 1 (percent)	0.000	0	100
Percent Area in Region 2 (percent)	100.000	0	100
Percent Area in Region 3 (percent)	0.000	0	100
Percent Area in Region 4 (percent)	0.000	0	100
Percent Area in Region 5 (percent)	0.000	0	100

Warning: Some parameters are outside the suggested range. Estimates will be extrapolations with unknown errors.

Urban Flows Region Grid Basin Characteristics			
100% Peak urban Blue Ridge-Piedmont FS007-00 (0.94 mi ²)			
Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	0.94	0.04	41
Area of Impervious Surfaces (percent)	0.09 (below min value 2)	2	54.6

Warning: Some parameters are outside the suggested range. Estimates will be extrapolations with unknown errors.

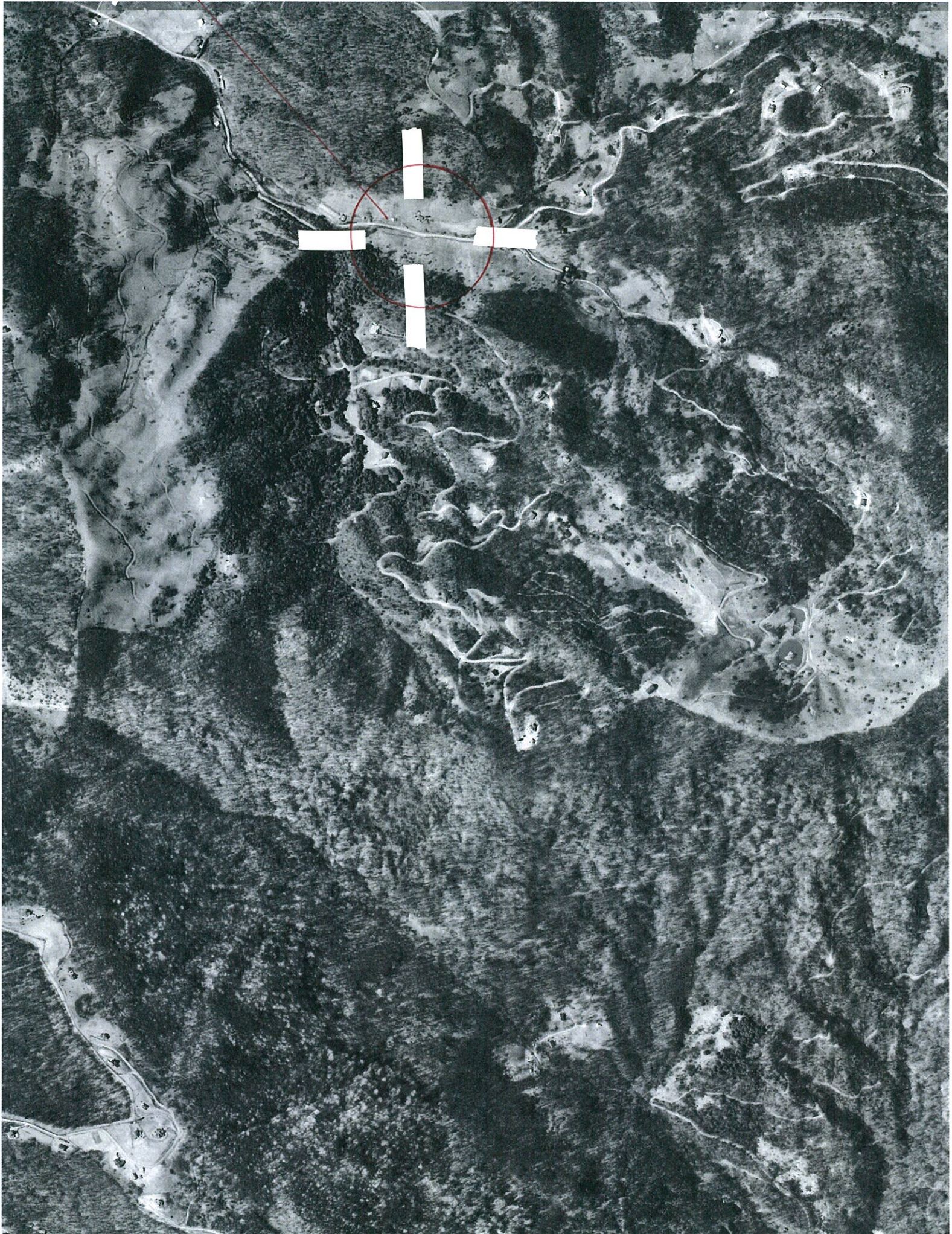
Peak Flows Region Grid Streamflow Statistics					
Statistic	Flow (ft ³ /s)	Prediction Error (percent)	Equivalent years of record	90-Percent Prediction Interval	
				Minimum	Maximum
PK2	104				
PK5	199				
PK10	276				
PK25	381				
PK50	458				
PK100	551				
PK200	632				
PK500	760				

Urban Flows Region Grid Streamflow Statistics					
Statistic	Flow (ft ³ /s)	Standard Error (percent)	Equivalent years of record	90-Percent Prediction Interval	
				Minimum	Maximum
PK2U	6.1				
PK5U	19.1				
PK10U	33.9				
PK25U	76.8				
PK50U	110				
PK100U	152				

SITE

27

305





NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

TEMPORARY REPAIRS

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY HAYWOOD BRIDGE NUMBER 430305 INSPECTION CYCLE 2 YRS
ROUTE SR1503 ACROSS LINER CREEK M.P. 0

LOCATION 3 MI.N.JCT.SR1508

SUPERSTRUCTURE TIMBER FLOOR ON TIMBER JOISTS

SUBSTRUCTURE E.BTS:TIMBER CAPS/TIMBER POST&SILLS @ 5'-2 CENTERS

SPANS 1 @ 15'-10

LONGITUDE 82° 51' 52.2"

LATITUDE 35° 37' 24.5"

PRESENT CONDITION GOOD

INVENTORY RATING

INSPECTION DATE 04/29/2011

OPERATING RATING

PRESENT POSTING Not Posted

PROPOSED POSTING

COMPUTER UPDATE

ANALYSIS DATE

POSTING LETTER DATE

SUFFICIENCY RATING

OTHER SIGNS PRESENT DELINEATORS



EAST

SIGN NOTICE
ISSUED FOR

NUMBERED
REQUIRED

No

WEIGHT LIMIT

No

DELINEATORS

No

NARROW BRIDGE

No

ONE LANE BRIDGE

No

LOW CLEARANCE

BRIDGE MANAGEMENT UNIT
DATA ON EXISTING STRUCTURE

Run Date: 06/13/2011

COUNTY : HAYWOOD		DIV : 14		DIST : 2		STRUCTURE NUMBER : 430305		LENGTH : 16 FEET	
ROUTE CARRIED : SR1503				FEATURE INTERSECTED : LINER CREEK					
LOCATED : 3 MI.N.JCT.SR1508				BRIDGE NAME :			CITY :		
FUNC. CLASS : 09		SYST.ON : NFA		SYST.UNDER : NFA		ADT & YR : 500 2008		RAIL TYPE : LT 227 RT 227	
BUILT : 1957		BY : BMU		PROJ : 1301		FED.AID PROJ :		DESIGN LOAD : Other or Unknown	
REHAB :		BY : BMU		PROJ : 5.9451		ALIGNMENT : TAN		SKEW : 95	
								LANES : ON 2 UNDER	
NAVIGATION : VC 0.0 FT HC 0.0 FT				HT. CRN. TO BED : 6 FT				WATER DEPTH : 1 FT	
SUPERSTRUCTURE : TIMBER FLOOR ON TIMBER JOISTS									
SUBSTRUCTURE : E.BTS:TIMBER CAPS/TIMBER POST&SILLS @ 5'-2 CENTERS									
SPANS : 1 @ 15'-10									
BEAMS OR GIRDERS : 21 LINES 6X12 TIMBER JOIST @ 11" CENTERS									
FLOOR : 4X8 TIM/1.5 AWS		ENCROACHMENT :				DECK (OUT TO OUT) : 20.3 FT			
CLEAR ROADWAY : 19.3 FT		BETWEEN RAILS : 19.9 FT				SIDEWALK OR CURB : LT 0.3 FT RT 0.3 FT			
VERT.CL.OVER : 99 FT 99 IN		VERT.CL.UNDER : 00 FT 00 IN				HOR.CL.UNDER : 0.0 FT			
INV.RTG. : HS-1		OPE.RTG. : HS-1		CONTR.MEMBER : Int.jsts		POSTED : SV		TTST DATE 02/11/2008	
SYSTEM : Secondary S.R. Route						GREEN LINE ROUTE : N			
2ND OPENING :		3RD OPENING :		4TH OPENING :		5TH OPENING :			
REMARKS :									

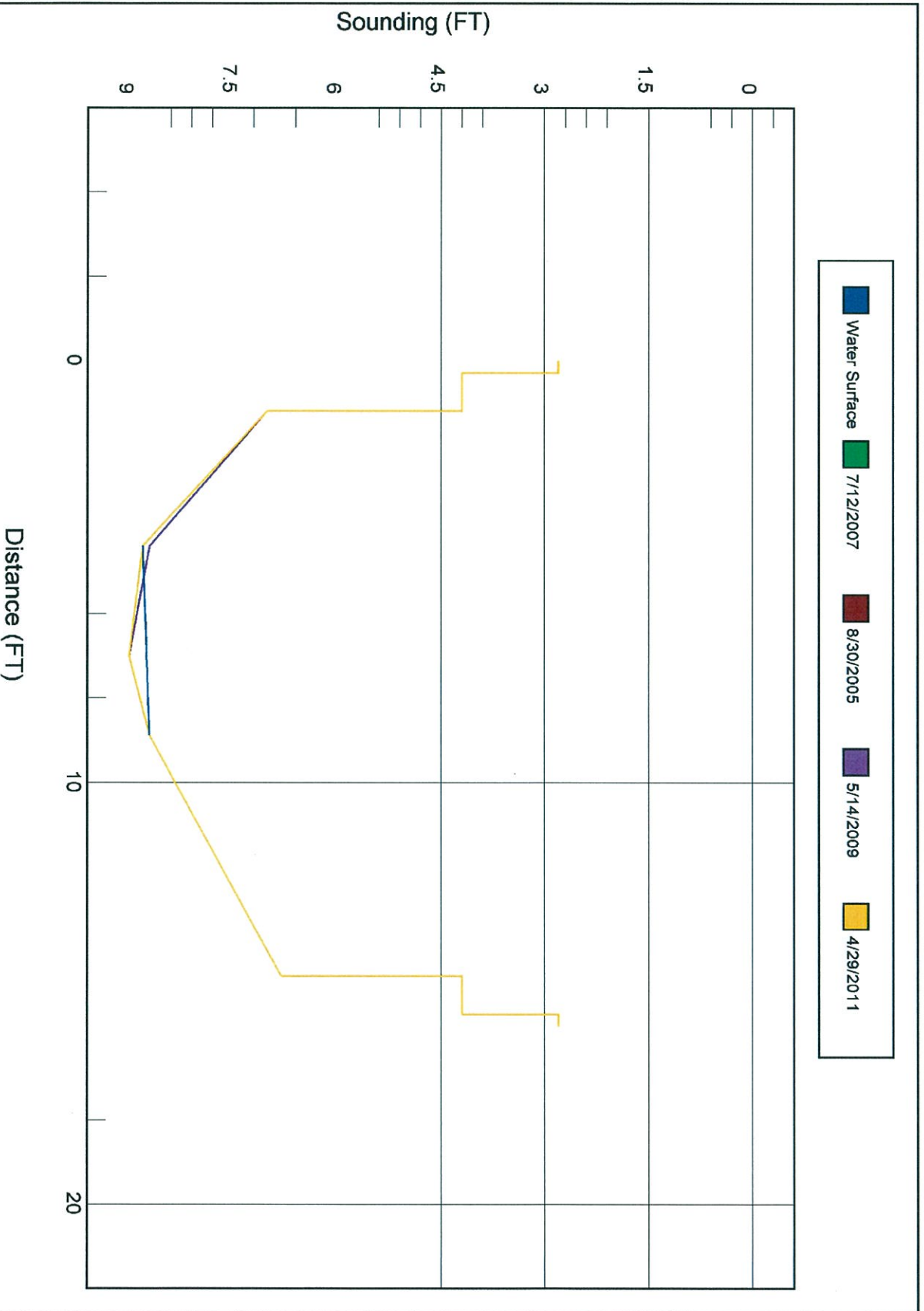
Bridge: 430305

County HAYWOOD

Date: 04/29/2011

Top of Rail = 0 FT (Sounding)

STREAMBED PROFILE (Downstream)





UPSTREAM SIDE



ABUTMENT 1