

OFFICE ESTIMATE

1@ 40' Bridge

PREDESIGN-PRESURVEY REPORT

Project# _____
TIP# _____
Let Date _____
WBS# 17BP.11.R.58

County Ashe

Bridge# 040350
Road# SR1617 (Hood Road)
Stream Peak Creek

Type Of Request: POC Force Account TIP NCMA

Date 7/1/13 Name M.G.S Assigned To R.C.H

Checked By SR16 7-15-13

Prior Survey Date _____ (attach copy of prior survey) BRN BK: No CO. FILE No

Study By Scour Section NONE

Flood Zone No Detail Study _____ Date 11/4/09 Panel# 3926

B.M. Info _____ 2106 AC

Quad Map Laurel Spring Drainage Area 3.29 sq. mi From USGS / Stream Stats
Q25 943 cfs Q50 1130 cfs Q100 1350 cfs Method Regression
950 1150

EXISTING BRIDGE INFORMATION

Location 100 ft. W. JCT. SR1616

Average Daily Traffic 150 YR 2006

Length 19 ft Bed-To Crown 8 ft. Water Depth 1 ft.

Type Structure Timber floor on timber joists

Type Spans 1 @ 18'-6" single span

Upstream Structure 040287 Timber floor on I-beams 1 @ 16'-4" (N/A)

Location 50 ft. S. JCT. SR1615

Bed-To Crown 5 ft. WD = 1 ft. Prior Survey _____

Downstream Structure 040311 12x24' Precast crown span Box culvert 40' culvert

Location 250 ft. N. JCT. SR1640

Bed-To Crown 11 ft. WD = 1 ft. Prior Survey 1 @ 40' x 7' 01/12 OCT-1905

SCS Watershed _____ (BRN BK) (C.O. FILE)

ENVIRONMENTAL

TVA No

Trout Stream Yes Anadromous Fish No Primary Nursery Area No

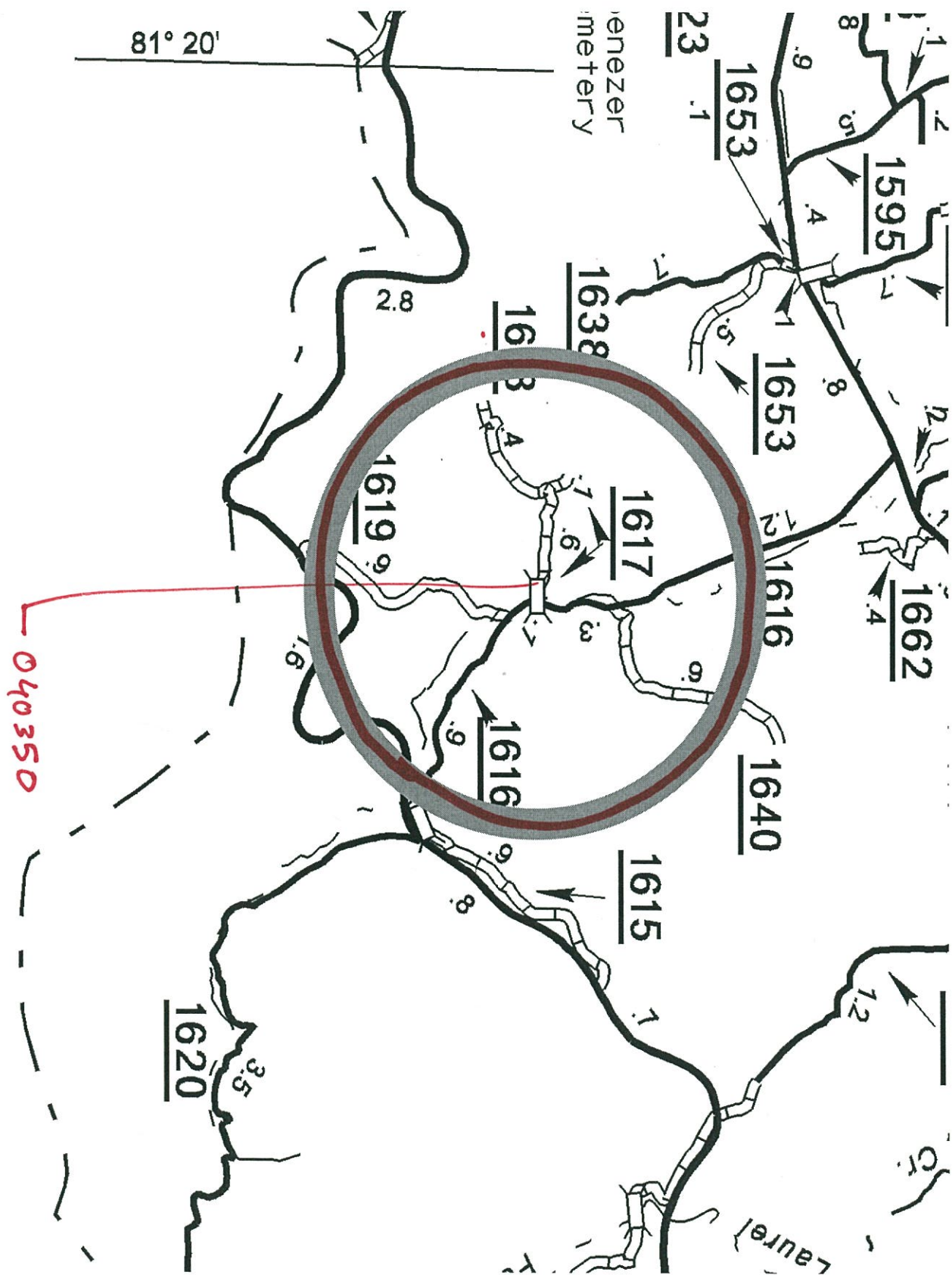
High Quality Waters No Nutrient Sensitive Waters No

Near Water Supply Intake No CAMA County No

Stream Classification C; T; + 10-1-35-(1)

DENR River Basin Info. NEW

From source to water
Supply Dam at
Appalachian Sulphides,
Inc.





North Carolina StreamStats

Streamstats Ungaged Site Report

Date: Mon Jul 1 2013 09:43:40 Mountain Daylight Time

Site Location: North_Carolina

NAD27 Latitude: 36.3807 (36 22 50)

NAD27 Longitude: -81.2999 (-81 17 59)

NAD83 Latitude: 36.3808 (36 22 51)

NAD83 Longitude: -81.2997 (-81 17 59)

Drainage Area: 3.29 mi² / 2106 AC

Percent Urban: 8.1 %

Percent Impervious: 0.3 %

Peak Flows Region Grid Basin Characteristics			
100% Peak Southeast US 2009 5158 (3.29 mi ²)			
Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	3.29	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

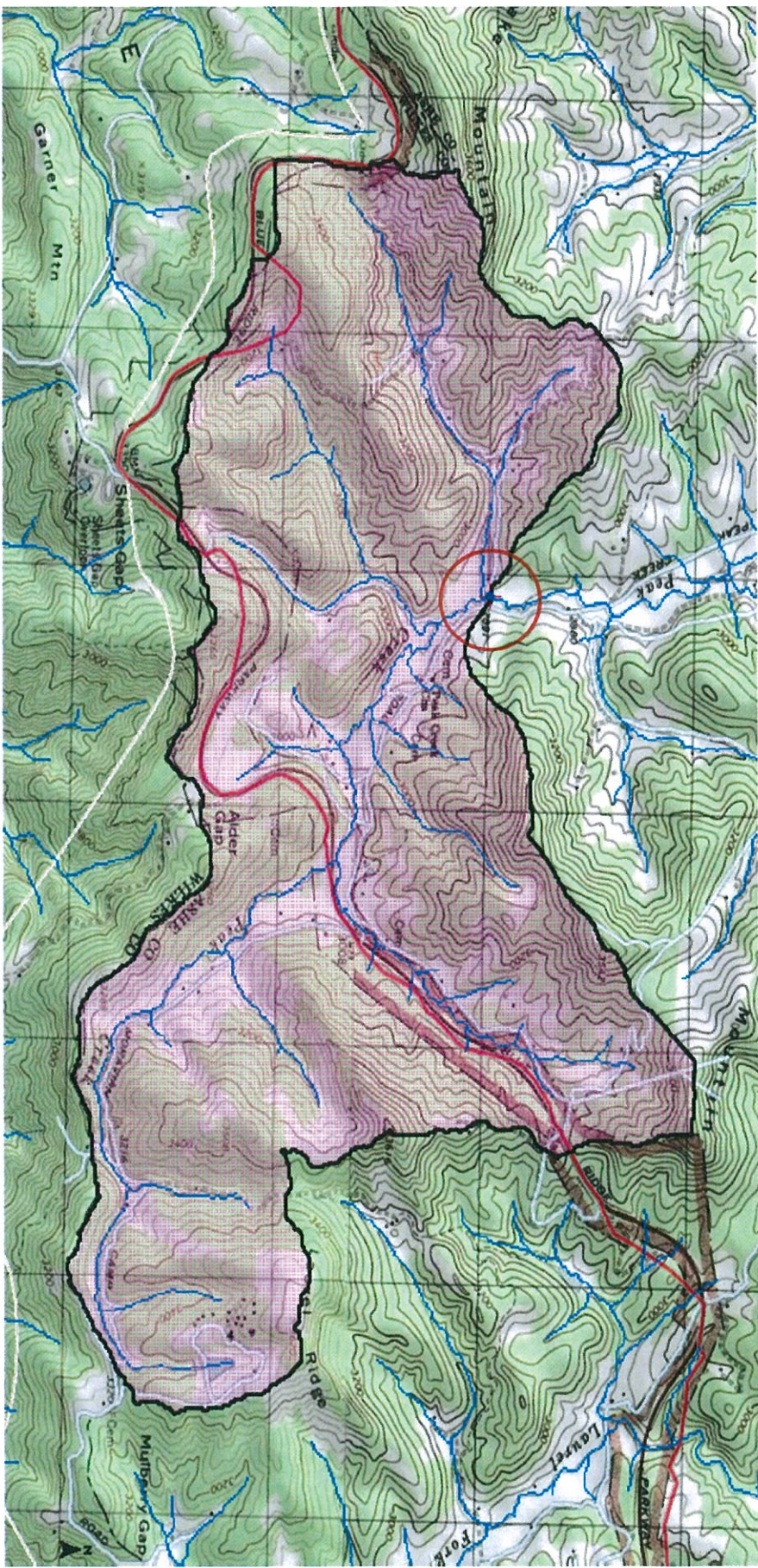
Urban Flows Region Grid Basin Characteristics			
100% Peak urban Blue Ridge-Piedmont FS007-00 (3.29 mi ²)			
Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	3.29	0.04	41
Area of Impervious Surfaces (percent)	0.28 (below min value 2)	2	54.6

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	277	35		158	487
PK5	510	34		292	889
PK10	693	35		390	1230
PK25	943	38		511	1740
PK50	1130	40		591	2150
PK100	1350	42		681	2660
PK200	1540	44		751	3150
PK500	1840	48		853	3960

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	33.5				
PK5U	85.7				
PK10U	138				
PK25U	271				
PK50U	366				
PK100U	480				

StreamStats Print Page



Explanation

- ★ GlobalWatershedPoint
- Stp1085Point
- NCDOT Points
- ▲ LocalGages
- LocalNHD2
- LongestFlowpath3D
- ▲ Gaging Station, Continuous Record
- ▲ Low Flow, Partial Record
- ▲ Peak Flow, Partial Record
- ▲ Peak and Low Flow, Partial Record
- ▲ Stage Only
- ▲ Low Flow Partial Record Stage



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

TEMP REPAIR

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY ASHE BRIDGE NUMBER 040350 INSPECTION CYCLE 2 YRS

ROUTE SR1617 ACROSS PEAK CREEK M.P. 0

LOCATION 100 FT.W.JCT.SR1616

SUPERSTRUCTURE TIMBER FLOOR ON TIMBER JOISTS

SUBSTRUCTURE E.BTS:TIMBER CAPS/TIMBER POST&SILLS @ 6' CENTERS

SPANS 1 @ 18'-6

LONGITUDE 81° 17' 17.2"

LATITUDE 36° 22' 39.9"

PRESENT CONDITION FAIR

INVENTORY RATING

INSPECTION DATE 12/08/2011

OPERATING RATING

PRESENT POSTING SV 13 TTST 21

PROPOSED POSTING

COMPUTER UPDATE

ANALYSIS DATE

POSTING LETTER DATE

SUFFICIENCY RATING

OTHER SIGNS PRESENT 4 DELIN.



LOOKING 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: 01/20/2012

COUNTY : ASHE DIVISION : 11 DISTRICT : 3 STRUCTURE NUMBER : 040350 LENGTH : 19 FEET

ROUTE CARRIED : SR1617 FEATURE INTERSECTED : PEAK CREEK

LOCATED : 100 FT.W.JCT.SR1616 BRIDGE NAME : CITY :

FUNC. CLASS : 09 SYST.ON : NFA SYST.UNDER : NFA ADT & YR : 150 2006 RAIL TYPE : LT 227 RT 227

BUILT : 1963 BY : BMU PROJ : FED.AID PROJ : DESIGN LOAD : Other or Unknown

REHAB : BY : PROJ : ALIGNMENT : TAN SKEW : 90 LANES : ON 2 UNDER

NAVIGATION : VC 0 FT HC 0 FT HT. CRN. TO BED : 8 FT WATER DEPTH : 1 FT

SUPERSTRUCTURE : TIMBER FLOOR ON TIMBER JOISTS

SUBSTRUCTURE : E.BTS:TIMBER CAPS/TIMBER POST&SILLS @ 6' CENTERS

SPANS : 1 @ 18'-6

BEAMS OR GIRDERS : 11 LNS.6X12 TIM.JSTS.& 1 LN. DBL.6X12 TIM.JSTS.@ VAR.CTS.

FLOOR : ENCROACHMENT : DECK (OUT TO OUT) : 20.1 FT

CLEAR ROADWAY : 19.2 FT BETWEEN RAILS : 19.8 FT SIDEWALK OR CURB : LT .3 FT RT .3 FT

VERT.CL.OVER : 999.9 FT

INV.RTG. : HS-3 OPE.RTG. : HS-4 CONTR.MEMBER : Int Joist POSTED : SV 13 TTST 21 DATE 04/02/2008

SYSTEM : Secondary S.R. Route GREEN LINE ROUTE : N

UNDER ROUTES AND CLEARANCES

REMARKS :

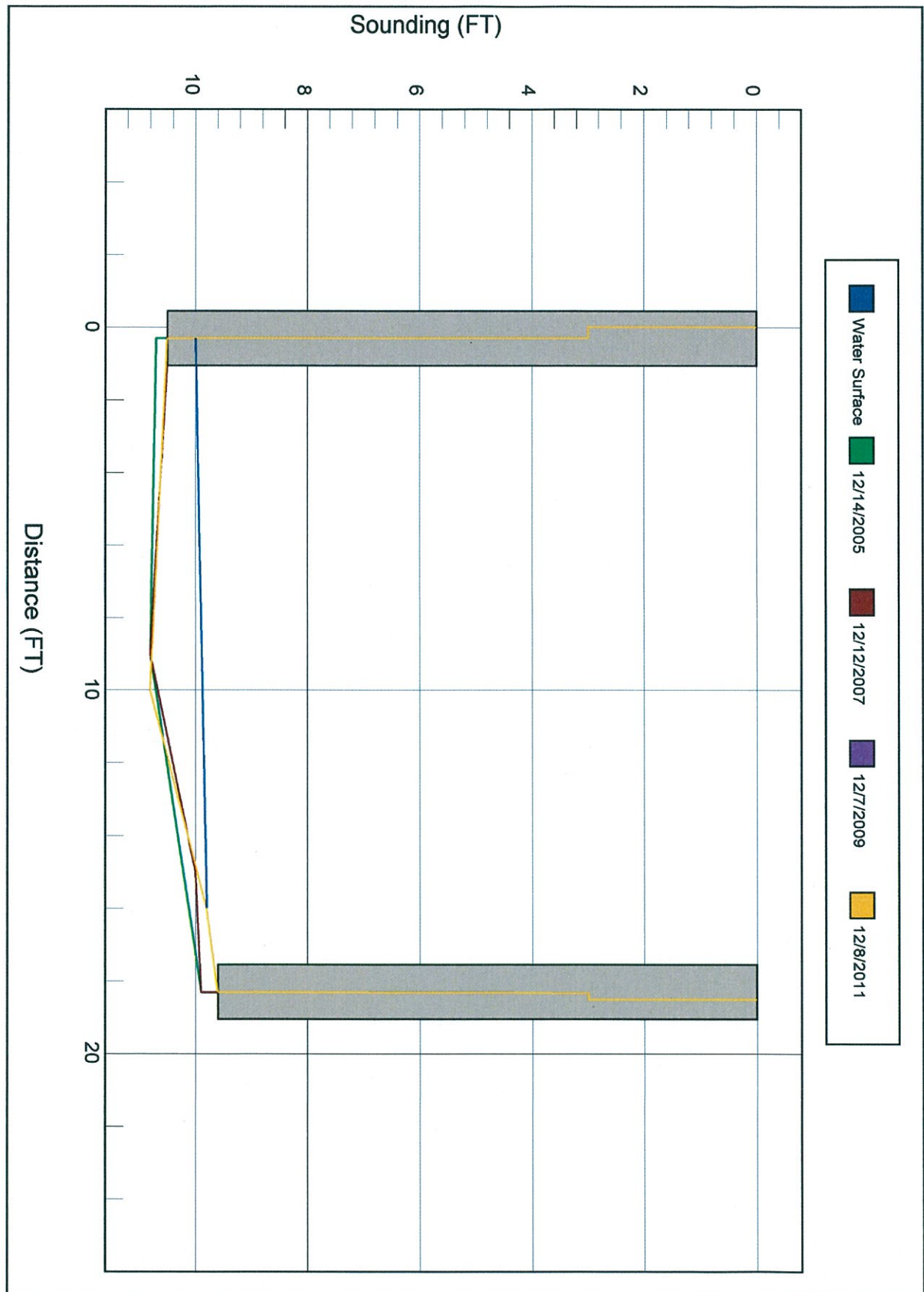
Bridge: 040350

County ASHE

Date: 12/08/2011

Top of Rail = 0 FT (Sounding)

STREAMBED PROFILE (Downstream)





LOOKING DOWNSTREAM



LOOKING UPSTREAM

[illegible]

The Special Flood Insurance Rate Map (SFIRM) was implemented 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 of floodplain management to decrease the need for flood insurance, and the SFIRM is a demonstration of the state's commitment to safe floodplain areas at the local level. As a part of this effort, the state of North Carolina has joined in a Cooperative Flood Insurance Rate Agreement with FEMA to produce and maintain the current SFIRM.

[illegible]

Two study features stood out, and, in addition, the study was not published. One was the discrepancy between the two studies' estimates of the prevalence of the disease. The other was the discrepancy between the two studies' estimates of the prevalence of the disease. The discrepancy between the two studies' estimates of the prevalence of the disease was the most striking feature of the study. The discrepancy between the two studies' estimates of the prevalence of the disease was the most striking feature of the study. The discrepancy between the two studies' estimates of the prevalence of the disease was the most striking feature of the study.

If you have questions about this note or questions concerning the National Flood Insurance Program, please call 1-877-FEMA-MAAP (1-877-369-6227) or visit the FEMA website www.fema.gov.

[illegible][illegible]

GRAPHIC SCALE BAR AND NORTH ARROW

0 100 200 300 400 500 FEET

GRID NORTH

MAP SCALE 1" = 800' (1:6,000)

NATIONAL FLOOD INSURANCE PROGRAM

