

Office Estimate	<u>60' Bridge</u>	Project#	<u> </u>
MOA Required	<u>No</u>	TIP#	<u> </u>
		Let Date	<u> </u>
	<u>PREDESIGN-PRESURVEY REPORT</u>	WBS#	<u>17BP.13.R.63</u>
		Bridge#	<u>600048</u>
County	<u>Mitchell</u>	Road#	<u>SR 1211</u>
		Name	<u>Cane Creek Rd.</u>
		Stream	<u>Cane Creek</u>
Type Of Request: POC	Force Account	TIP	NCMA
Date	<u>8/12/11</u>	Name	<u>MLH (Mulkey, Inc.)</u>
Checked By	<u>KBA (Mulkey, Inc.)</u>		
Prior Survey Date	<u>N/A</u>	(attach copy of prior survey)	
Study By Scour Section	<u>Z; 4/15/2010</u>		
Flood Zone	<u>N/A</u>	Detail Study	<u>N/A</u>
		Date	<u>N/A</u>
B.M. Info	<u>N/A</u>	Panel#	<u>Panel N/A 0884</u>
Quad Map	<u>Carvers Gap</u>	Drainage Area	<u>1.4 Sq. Mi.</u>
		From	<u>USGS Quad Map</u>
Q25	<u>500 cfs</u>	Q50	<u>600 cfs</u>
		Q100	<u>750 cfs</u>
		Method	<u>USGS Regression</u>

EXISTING BRIDGE INFORMATION

Location	<u>0.6 Mi. E. Jct. SR 1207</u>		
Average Daily Traffic	<u>290 - Yr. 2008</u>		
Length	<u>18 Ft.</u>	Bed- To Crown	<u>7 Ft.</u>
		Water Depth	<u>1 Ft.</u>
Type Structure	<u>Timber Floor on timber Joists; Abutments: Reinforced Conc. With Timber Risers</u>		
Type Spans	<u>1@18'-3</u>		
Upstream Structure	<u>600178</u>		
Location	<u>0.2 Mi. N. Jct. SR 1211</u>		
Bed- To Crown	<u>8 Ft.</u>	Prior Survey	<u>N/A</u>
Downstream Structure	<u>N/A</u>		
Location	<u> </u>		
Bed- To Crown	<u> </u>	Prior Survey	<u> </u>
SCS Watershed	<u>N/A</u>		

ENVIRONMENTAL

Trout Stream	<u>Yes</u>	Anadromous Fish	<u>No</u>	Primary Nursery Area	<u>No</u>
High Quality Waters	<u>No</u>	Nutrient Sensitive Waters	<u>No</u>		
Near Water Supply Intake	<u>No</u>	CAMA County	<u>No</u>		
Stream Classification	<u>C;Tr</u>				
DENR River Basin Info.	<u>French Broad</u>				
State Stormwater Permit Required	<u>No</u>				



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY MITCHELL BRIDGE NUMBER 600048 INSPECTION CYCLE 2 YRS
ROUTE SR1211 ACROSS CANE CREEK M.P. 0

LOCATION .6 MI.E.JCT.SR1207

SUPERSTRUCTURE TIMBER FLOOR ON TIMBER JOISTS

SUBSTRUCTURE ABUTMENTS:REINFORCED CONCRETE W/TIMBER RISERS

SPANS 1 @ 18'-3

LONGITUDE 82° 4' 52.4"

LATITUDE 36° 1' 36.6"

PRESENT CONDITION FAIR

INVENTORY RATING

INSPECTION DATE 01/07/2010

OPERATING RATING

PRESENT POSTING SV 11 TTST 19

PROPOSED POSTING

COMPUTER UPDATE

ANALYSIS DATE

POSTING LETTER DATE

SUFFICIENCY RATING

OTHER SIGNS PRESENT Delineators



EAST

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: 03/15/2010

COUNTY : MITCHELL	DIV : 13	DIST : 1	STRUCTURE NUMBER : 600048	LENGTH : 18 FEET
ROUTE CARRIED : SR1211		FEATURE INTERSECTED : CANE CREEK		
LOCATED : .6 MI.E.JCT.SR1207		BRIDGE NAME :		
FUNC. CLASS : 09	SYST.ON : NFA	SYST.UNDER : NFA	ADT & YR : 290 2008	RAIL TYPE : LT 227 RT 227
BUILT : 1958	BY : BMU	PROJ :	FED.AID PROJ :	DESIGN LOAD : Other or Unknown
REHAB :	BY :	PROJ :	ALIGNMENT : TAN	SKEW : 90 LANES : ON 2 UNDER
NAVIGATION : VC 0.0 FT HC 0.0 FT		HT. CRN. TO BED : 7 FT		WATER DEPTH : 1 FT
SUPERSTRUCTURE : TIMBER FLOOR ON TIMBER JOISTS				
SUBSTRUCTURE : ABUTMENTS:REINFORCED CONCRETE W/TIMBER RISERS				
SPANS : 1 @ 18'-3				
BEAMS OR GIRDERS : 10 LINES 6X12 TIMBER JOISTS @ VAR. CENTERS				
FLOOR : 4X8 TIM/3 AWS	ENCROACHMENT :		DECK (OUT TO OUT) : 20.2 FT	
CLEAR ROADWAY : 19.2 FT	BETWEEN RAILS : 19.8 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-5	OPE.RTG. : HS-8	CONTR.MEMBER : ext.jost10	POSTED : SV 8	TTST 13 DATE 03/15/2010
SYSTEM : Secondary S.R. Route			GREEN LINE ROUTE : N	
2ND OPENING :		3RD OPENING :		4TH OPENING : 5TH OPENING :
REMARKS :				

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 600048 County: MITCHELL Date: 01/07/2010 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	2.7				
1	2.7				
1	4.2				
2	4.2				
2	7.7				
2.5	7.7				
2.5	8.8	Water Surface (WS)			
7	9.3				
10	8.8	Water Surface (WS)			
13	8.4				
15.5	7.9				
15.501	4.2				
16.5	4.2				
16.501	2.7				
17.5	2.7				

Bridge: 600048

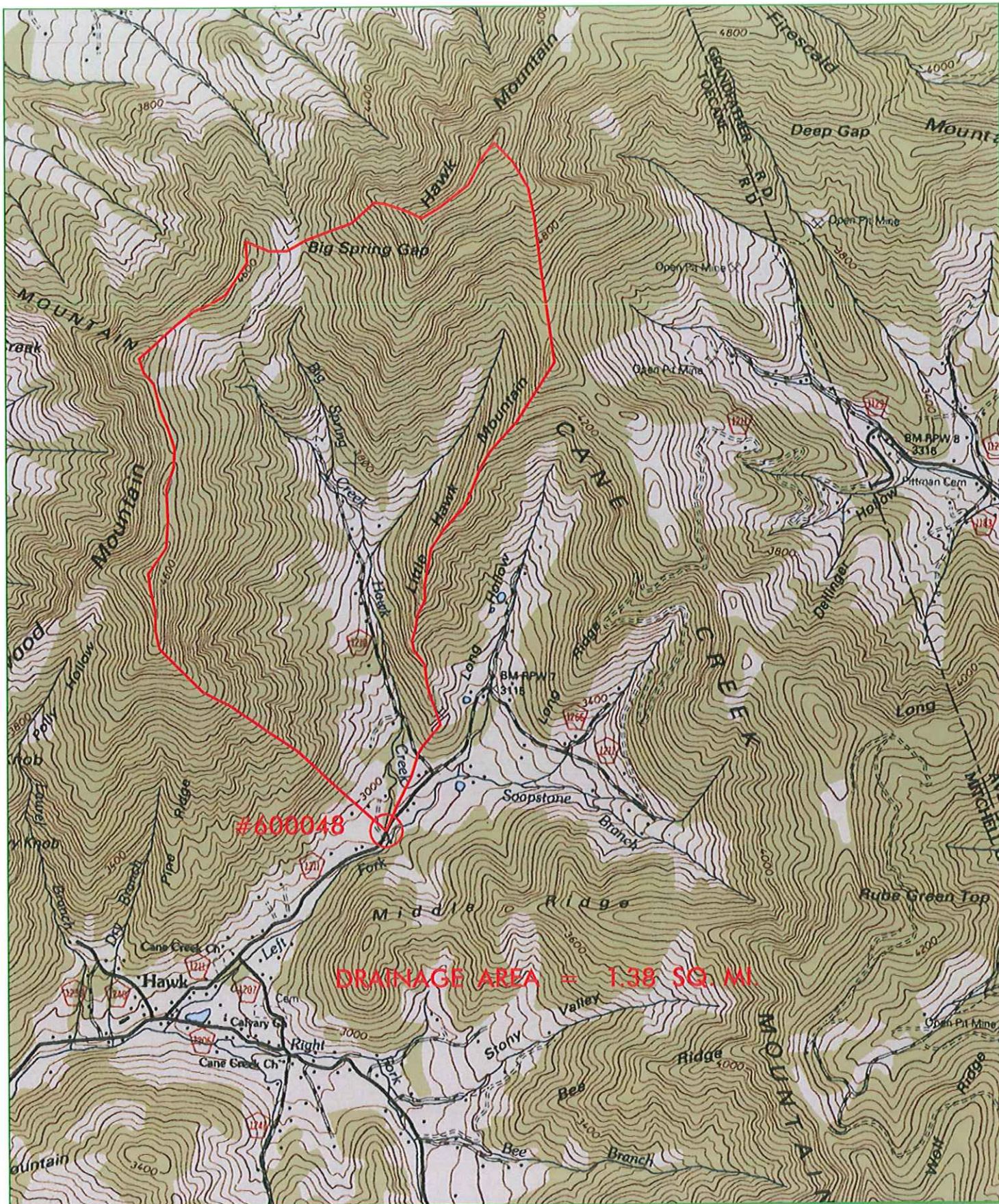
County MITCHELL

Date: 01/07/2010

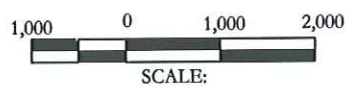
STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)





QUAD MAP - BRIDGE #600048



U15



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY MITCHELL BRIDGE NUMBER 600178 INSPECTION CYCLE 2 YRS
ROUTE SR1210 ACROSS CREEK M.P. 0

LOCATION .2 MI.N.JCT.SR1211

SUPERSTRUCTURE TIMBER FLOOR ON TIMBER JOISTS

SUBSTRUCTURE ABUT.1;TIMBER CAP/RC;E.BT.2;TIMBER CAP/P&S/CONC.FTG.

SPANS 1 @ 20'-8

LONGITUDE 82° 4' 48.7"

LATITUDE 36° 1' 52.7"

PRESENT CONDITION GOOD

INVENTORY RATING

INSPECTION DATE 01/07/2010

OPERATING RATING

PRESENT POSTING SV 17 TTST 24

PROPOSED POSTING

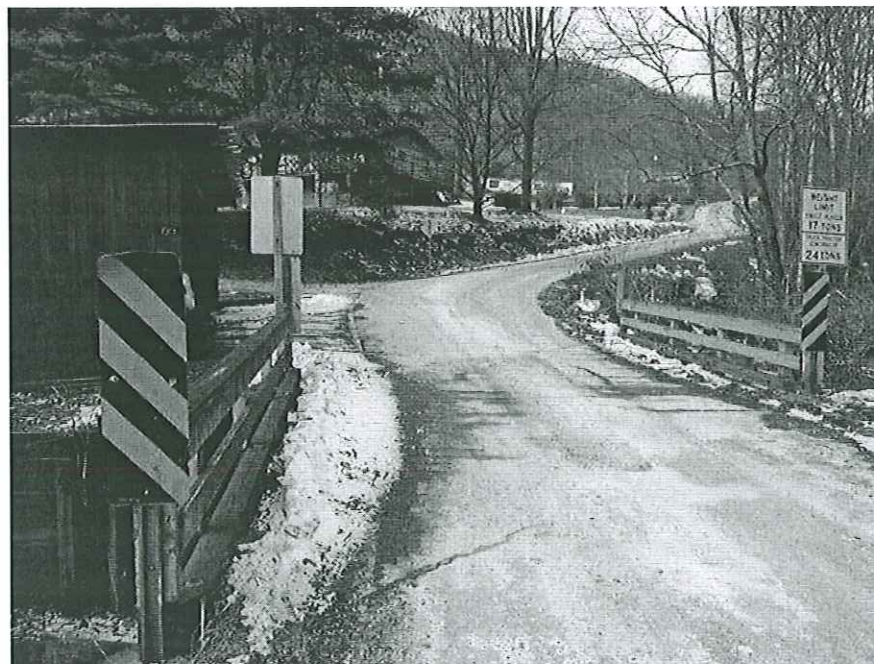
COMPUTER UPDATE

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>

U/S

BRIDGE MANAGEMENT UNIT
DATA ON EXISTING STRUCTURE

Run Date: 04/19/2010

COUNTY :	DIV :	DIST :	STRUCTURE NUMBER :	LENGTH :		
MITCHELL	13	1	600178	21	FEET	
ROUTE CARRIED :		FEATURE INTERSECTED :				
SR1210		CREEK				
LOCATED :		BRIDGE NAME :				
.2 MI.N.JCT.SR1211						
FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :		
09	NFA	NFA	110 2000	LT 227 RT 227		
BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :		
1963	BMU			Other or Unknown		
REHAB :	BY :	PROJ :	ALIGNMENT :	SKEW :	LANES :	
1991	BMU	5.8851	TAN	45	ON 2 UNDER	
NAVIGATION :		HT. CRN. TO BED :		WATER DEPTH :		
VC	0.0 FT	HC	0.0 FT	8	FT	1 FT
SUPERSTRUCTURE : TIMBER FLOOR ON TIMBER JOISTS						
SUBSTRUCTURE : ABUT.1;TIMBER CAP/RC;E.BT.2;TIMBER CAP/P&S/CONC.FTG.						
SPANS : 1 @ 20'-8						
BEAMS OR GIRDERS : 11 LINES 6X14 TIMBER JOISTS @ 1'-10.25 CENTERS						
FLOOR :		ENCROACHMENT :		DECK (OUT TO OUT) :		
4X8 TIM/1.5 AWS				20.1 FT		
CLEAR ROADWAY :		BETWEEN RAILS :		SIDEWALK OR CURB :		
19.1 FT		19.8 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-11	HS-15	intjst	SV 17	TTST 24	DATE 09/13/2006	
SYSTEM :				GREEN LINE ROUTE :		
Secondary S.R. Route				N		
2ND OPENING :		3RD OPENING :		4TH OPENING :		5TH OPENING :
REMARKS :						

U/S

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 600178 County: MITCHELL Date: 01/07/2010 By: RWS

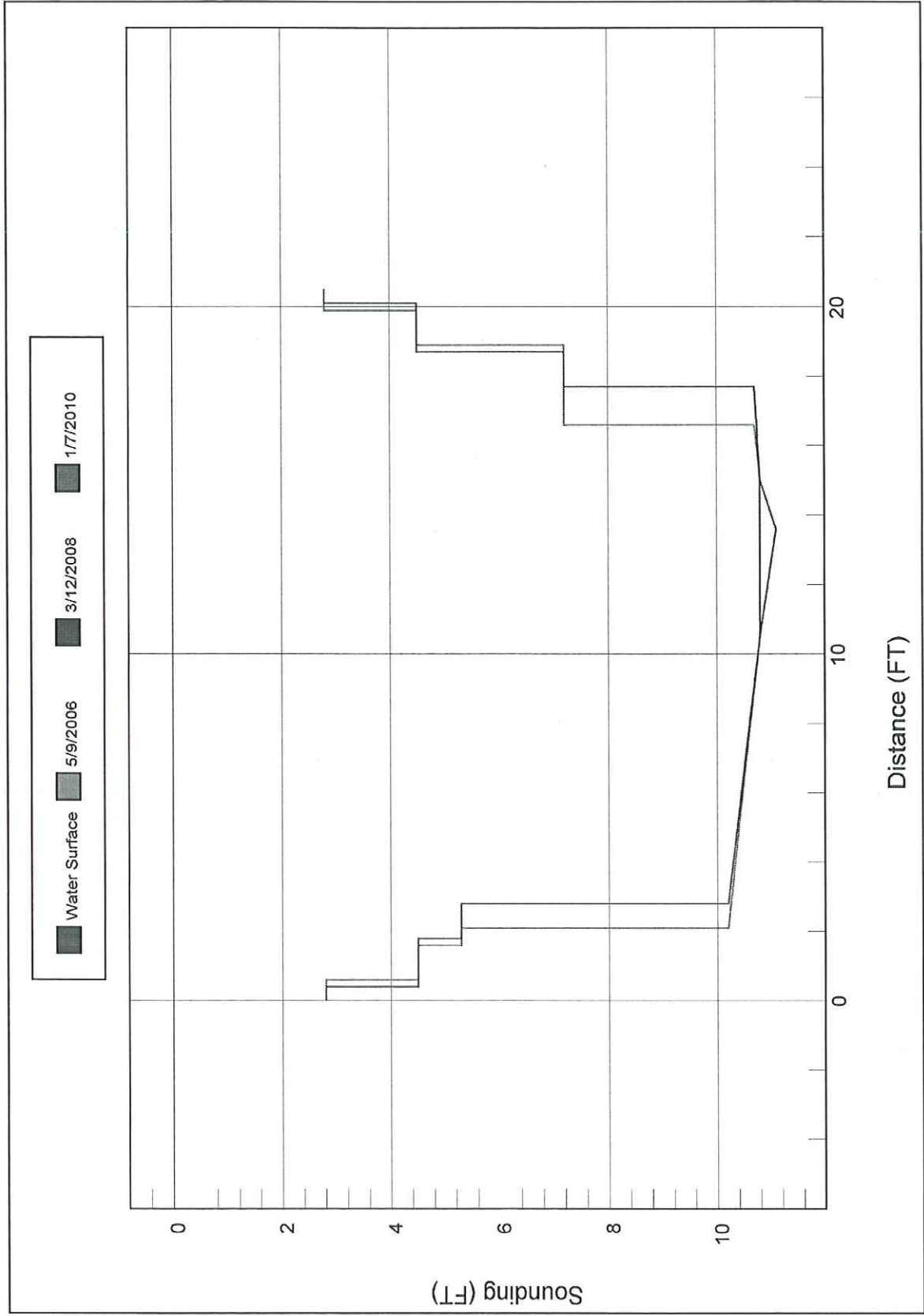
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DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	2.8				
0.4	2.8				
0.4	4.5				
1.8	4.5				
1.8	5.3				
2.8	5.3				
2.8	10.2				
10.6	10.8	Water Surface/Water Edge (WSWE)			
13.6	11.1				
15	10.8	Water Surface/Water Edge (WSWE)			
17.7	10.7				
17.701	7.2				
18.7	7.2				
18.701	4.5				
20.1	4.5				
20.101	2.8				
20.5	2.8				

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



U/S