Camp Creek Tributaries Floodplain Delineation Study

Appendix E

Hydraulic Analysis Supporting Documentation

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APPENDIX E

Hydraulic Analysis Supporting Documentation

E.1 Roughness Coefficient Estimation

The n value report is located on the following pages.

n Value Report for the Camp Creek Tributaries Floodplain Delineation Study Contract FCD 2004C023

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I. Introduction

Aspen Consulting Engineers was contracted by the Flood Control District of Maricopa County to produce this report as part of the Camp Creek Tributaries Floodplain Delineation Study. The Flood Control District's contract is FCD 2004C023.

The Camp Creek Tributaries Floodplain Delineation Study will produce approximately 21 mile of flood mapping of tributaries to Camp Creek. Camp Creek is located in northeast Maricopa County, Arizona. It flows into the Verde River system south of Bartlett Reservoir. The study area encompasses those tributaries intersecting Camp Creek from the west and northwest and for the portion of Camp Creek that lies 0.7 miles north and 4.7 miles south of Horseshoe Dam Road.

II. Methodology

Mannings roughness coefficients were estimated for 40 tributaries and sub-tributaries to Camp Creek. Appendix I shows the watershed and tributary map. Some tributaries were divided into several reaches depending upon channel and floodplain characteristics as indicated in Appendix I. Each reach of each tributary was assigned appropriate roughness coefficients to be used for the channel and floodplain for the entire reach.

Information gathered in a field visit to the site, supplemented by aerial photography, was used in the analysis. The field trip was documented with photographs. Appendix I is a map showing the location of the photographs taken during the field trip. Appendix II provides the photographs.

Roughness coefficients were estimated based on the procedures described in USGS (1991), USGS (1998a), and USGS (1998b). The basic equation is as follows:

$$n = (n_b + n_1 + n_2 + n_3) * M$$

Where: n = Overall channel roughness coefficient;

n_b = Base value of "n" for a straight uniform channel;

n_1 = Value for surface irregularities;

n_2 = Value for obstruction; and,

n_3 = Value for vegetation.

M = Multiplier to account for degree of meandering.

The base value of "*n*" was based on the size of the bed material, which was determined to be remarkably uniform throughout most of the tributary channels. Estimates of the bed material size were made by photographing an engineer's scale on the channel bed surface, and measuring the size of the surface particles from the photographs.

Appendix I shows the location of surface bed sample photos and provides an index map with all photographs taken during the field investigations. Appendix II shows typical photographs of the sample areas. Figure 1. Example Sediment Size from Tributary C shows an example bed sample photograph.

Figure 1. Example Sediment Size from Tributary C.

Based on the field samples, the D_{50} of the bed material in most of the tributaries is approximately 5 mm. Based on Table 1 of USGS (1991), this would result in a base "*n*" value of 0.028. This value was used for most tributaries. Exceptions are noted in the detailed analysis.

An example channel "*n*" value computation is provided here for Tributary A. All others were computed by the same methodology, and are provided in the detailed analysis. All roughness coefficients were rounded to the nearest 0.005.

Tributary A is the southernmost tributary in the study, and is typical of most of the tributaries in the study area. It can be divided into two basic reaches. Reach 1, extending from the confluence with Camp Creek to a point approximately 4,000 feet of the confluence, is characterized by a wide, flat canyon bottom bordered by steep hills. The canyon bottom ranges from approximately

200 to 1,000 feet wide. Within this canyon bottom, there are several distinct channels that are relatively clear of vegetation. The channels are braided and interconnected, and relatively straight. There is little vertical relief between the channels and the adjacent floodplain between the channels. At the confluence with Camp Creek, there are at least nine of these channel braids in a pattern reminiscent of an alluvial fan. Further up the canyon, there are more typically three or four braids.

Figure 2 . Tributary A Reach 1 Main Channel shows a photograph of a typical braid in Tributary A, looking upstream, located near the confluence with Camp Creek. As can be seen in the photograph, the channel, as is typical of the channels in these tributaries, is used as a road for off-road vehicles. The lack of vertical relief between the channel and the adjacent floodplain is apparent.

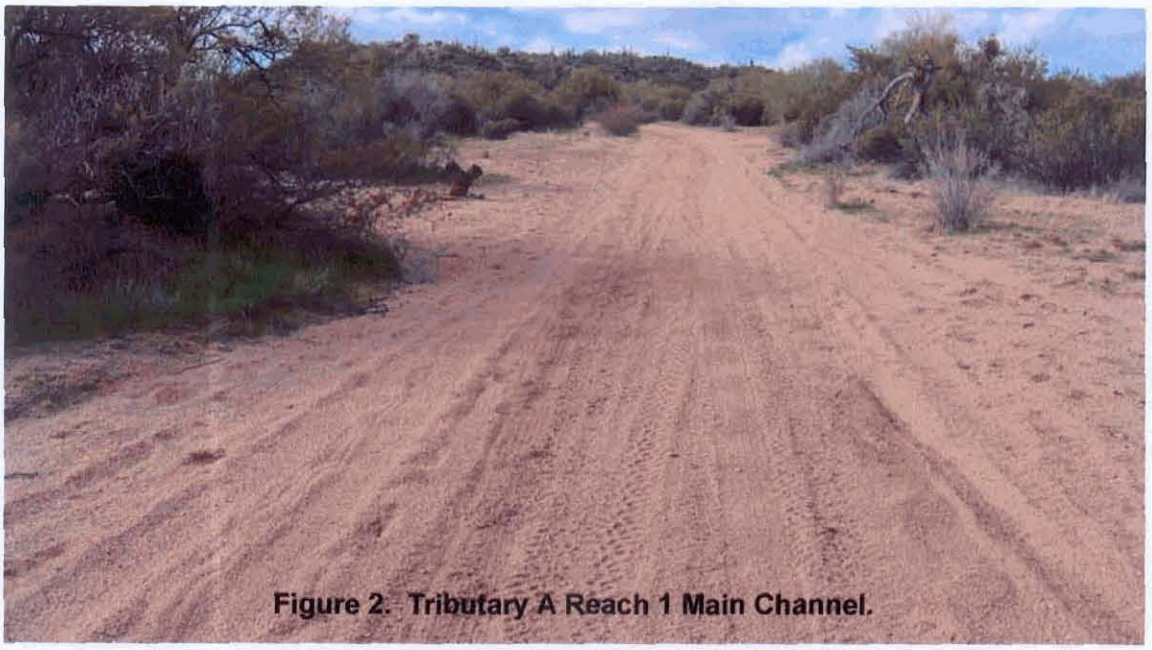


Figure 2. Tributary A Reach 1 Main Channel.

The *n* value for this channel is computed as follows:

Table 1. Computation of Channel n Value for Tributary A, Reach 1

Roughness Coefficient Component	Assigned Value	Comments
n_b = Base value of "*n*"	0.028	Based on typical bed grain size = 5 mm. See Table 1 in USGS (1991)
n_1 = Value for surface irregularities	0.002	Surface irregularities are minor. This value is typical. Other braids not used by off-road vehicles are smoother.
n_2 = Value for obstruction	0.002	There are very few obstructions in these channels. There are very few rocks and almost no vegetation.
n_3 = Value for vegetation	0.002	There is no vegetation in the channels. However, there is some along the sides which offer a small amount of resistance to flow.
Multiplier for channel meandering	1	Meander length to straight length ratio is approximately 1.08.
Overall "*n*" value is (0.028 + (0.002 x 3)) x 1 = 0.034. Use 0.035		

The estimated *n* value for this channel is 0.035. This value is valid for all Tributary A Reach 1 channels and channel braids.

Figure 3 shows a typical view of Reach 2 of the Tributary A1 channel (no photographs are available for Reach 2 of the Tributary A channel). Tributary A1 runs parallel to Tributary A, and joins Tributary A at a point approximately 1,200 feet upstream of the Tributary A confluence with Camp Creek. Reach 2 of Tributary A1 begins at a point approximately 5,500 feet upstream of the confluence with Tributary A. Reach 2 of Tributaries A and A1 are similar in hydraulic characteristics.

The photograph in Figure 3. Tributary A1 Reach 2 Main Channel was taken looking downstream at a point approximately 5,500 feet upstream of the Tributary A1 confluence with Tributay A, looking downstream from the 144th Street alignment. Reach 2 of Tributary A1 is characterized by a relatively narrow, single channel bordered on the sides by sloping terrain. The channel is generally solitary, with little braiding, and more relief between the channel bed and adjacent overbank than is present in the Reach 1 channels.

Figure 3. Tributary A1 Reach 2 Main Channel.

The *n* value for this channel is computed as follows:

Table 2. Computation of Channel n Value for Tributary A1, Reach 2

Roughness Coefficient Component	Assigned Value	Comments
n_b = Base value of "n"	0.028	Based on typical bed grain size = 5 mm. See Table 1 in USGS (1991)
n_1 = Value for surface irregularities	0.005	Surface irregularities are minor, but greater than for the Tributary A Reach 1 channels.
n_2 = Value for obstruction	0.005	There are minor obstructions, mainly in the form of scattered bushes, tree branches, and small rocks.
n_3 = Value for vegetation	0.002	There is little vegetation in the channels. However, there is some along the sides which offer a small amount of resistance to flow.
Multiplier for channel meandering	1	Meander length to straight length ratio is less than 1.2.
Overall "n" value is (0.028 + 0.002 +0.005 + 0.002) x 1 = 0.040.		

The estimated n value for this channel is 0.040. This value is valid for Tributary A, Reach 2, Tributary A1, Reach 2, and Tributaries A2, A3, A4 and A5.

The Figure 4. Tributary A Reach 1 Overbank shows a typical overbank of Tributary A, Reach 1. The photograph was taken in the canyon bottom approximately 2,800 feet upstream of the confluence with Camp Creek. Vegetation is moderately dense brush, mostly at a height sufficient to obstruct the entire depth of the likely 100-year flood. This vegetation is typical of the floodplains of Reach 1 of Tributaries A and A1. An estimate of the roughness coefficient was made in the same manner as for the channel, and is presented in Table 3.

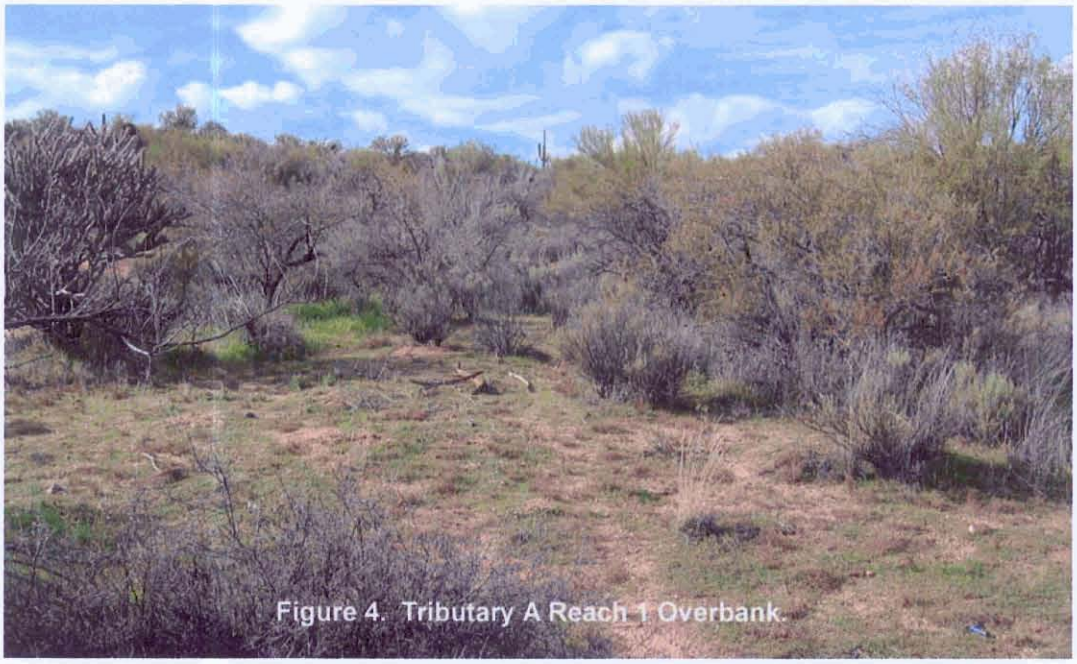


Figure 4. Tributary A Reach 1 Overbank.

Table 3. Computation of Floodplain n Value for Tributary A, Reach 1

Roughness Coefficient Component	Assigned Value	Comments
n_b = Base value of "n"	0.028	Based on typical bed grain size = 5 mm. See Table 1 in USGS (1991)
n_1 = Value for surface irregularities	0.005	Surface irregularities exist, but are relatively minor.
n_2 = Value for obstruction	0.030	Obstructions, in the form of trees, bushes an cactus, are appreciable and occupy 15 to 50 percent of the cross section, and in many places the space between obstructions is small enough to cause the effect of several obstructions to be additive.
n_3 = Value for vegetation	0.010	Vegetation, not including the brush and trees accounted for under n_2, consists mainly of small grass and weeds. Summertime density expected to be medium.
Multiplier for channel meandering	1	Meander length to straight length ratio is less than 1.2.
Overall n value is (0.028 + 0.005 +0.030 + 0.010) x 1 = 0.073. Use 0.075.		

The estimated n value for this floodplain is 0.075. This value is considered reasonable based on floodplain n values described in Table 2 of USGS (1991). Based on this table, floodplain n values for medium to dense brush range from 0.045 to 0.16. The brush in this floodplain is considered of relatively medium density, making an n value of 0.075 reasonable. This value is valid for Tributary A, Reach 1, and Tributary A1, Reach 1.

Figure 5. Tributary A1 Reach 2 Floodplain Area shows a typical overbank of Tributary A1, Reach 2. The photograph was taken at the same location as Figure 3, but looking upstream. Vegetation is light to moderately dense brush, mostly at a height sufficient to obstruct the entire depth of the likely 100-year flood. This vegetation is typical of the floodplains of Reach 2 of Tributaries A and A1, and the floodplains of Tributaries A2, A3, A4, and A5. An estimate of the roughness coefficient was made in the same manner as for the channel, and is presented in Table 4.

Figure 5. Tributary A1 Reach 2 Floodplain Area.

Table 4. Computation of Floodplain n Value for Tributary A1, Reach 2

Roughness Coefficient Component	Assigned Value	Comments
n_b = Base value of "n"	0.028	Based on typical bed grain size = 5 mm. See Table 1 in USGS (1991)
n_1 = Value for surface irregularities	0.007	Surface irregularities are moderate.
n_2 = Value for obstruction	0.030	Obstructions, in the form of trees, bushes, cactus and wood, are appreciable and occupy 15 to 50 percent of the cross section, and in many places the space between obstructions is small enough to cause the effect of several obstructions to be additive.
n_3 = Value for vegetation	0.010	Vegetation, not including the brush and trees accounted for under n_2, consists mainly of small grass and weeds.
Multiplier for channel meandering	1	Meander length to straight length ratio is less than 1.2.
Overall n value is (0.028 + 0.007 +0.03 + 0.01) x 1 = 0.075.		

The estimated n value for this floodplain is 0.075. This value is considered reasonable based on floodplain n values described in Table 2 of USGS (1991). This value is valid for Tributary A, Reach 2, Tributary A1, Reach 2, and Tributaries A2, A3, A4, and A5.

III. Detailed Analysis

Table 5 provides a summary of the detailed analysis for all Camp Creek tributaries within the study reach. Each tributary is divided into reaches as shown in Appendix I. Table 5 provides channel and overbank roughness coefficients for each reach of each tributary.

Table 5. n-Value Computation Detailed Analysis

Tributary/Reach	n-Value Computation	Photo Location ID (Appendix I) Photo Numbers (Appendix II)	Comments	Photograph Thumbnail
Tributary A/Reach 1, Channel.	$n_b = 0.028$ $n_1 = 0.002$ $n_2 = 0.002$ $n_3 = 0.002$ M = 1 n = 0.034 Use n = 0.035	A 1-4	Bed material sediment size approximately 5mm. Straight, smooth channel with few obstructions and little vegetation except along channel banks.	
Tributary A/Reach 1, Floodplain.	$n_b = 0.028$ $n_1 = 0.005$ $n_2 = 0.030$ $n_3 = 0.010$ M = 1 n = 0.073 Use n = 0.075	B 5-7	Bed material sediment size approximately 5mm. Appreciable obstructions in the form of brush and trees. Other vegetation consists of grasses and short weeds - moderate in summer.	
Tributary A/Reach 2, Channel.	$n_b = 0.028$ $n_1 = 0.005$ $n_2 = 0.005$ $n_3 = 0.002$ M = 1 n = 0.040	None	Bed material sediment size approximately 5mm. Straight, smooth channel with some obstructions and vegetation.	None
Tributary A/Reach 2, Floodplain.	$n_b = 0.028$ $n_1 = 0.007$ $n_2 = 0.030$ $n_3 = 0.010$ M = 1 n = 0.075	None	Bed material sediment size approximately 5mm. Appreciable obstructions in the form of brush and trees. Other vegetation consists of grasses and short weeds – moderate in summer.	None

Tributary/Reach	n-Value Computation	Photo Location ID (Appendix I) Photo Numbers (Appendix II)	Comments	Photograph Thumbnail
Tributary A1/Reach 1, Channel.	$n_b = 0.028$ $n_1 = 0.002$ $n_2 = 0.002$ $n_3 = 0.002$ M = 1 n = 0.034 Use n = 0.035	None	Bed material sediment size approximately 5mm. Straight, smooth channel with few obstructions and little vegetation.	None
Tributary A1/Reach 1, Floodplain.	$n_b = 0.028$ $n_1 = 0.005$ $n_2 = 0.030$ $n_3 = 0.010$ M = 1 n = 0.073 Use n = 0.075	None	Bed material sediment size approximately 5mm. Appreciable obstructions in the form of brush and trees. Other vegetation consists of grasses and short weeds - moderate in summer.	None
Tributary A1/Reach 2, Channel.	$n_b = 0.028$ $n_1 = 0.005$ $n_2 = 0.005$ $n_3 = 0.002$ M = 1 n = 0.040	D 10-13	Bed material sediment size approximately 5mm. Straight, smooth channel with some obstructions and vegetation.	
Tributary A1/Reach 2, Floodplain.	$n_b = 0.028$ $n_1 = 0.007$ $n_2 = 0.030$ $n_3 = 0.010$ M = 1 n = 0.075	D 10-13	Bed material sediment size approximately 5mm. Appreciable obstructions in the form of brush and trees. Other vegetation consists of grasses and short weeds – moderate in summer.	

Tributary/Reach	n-Value Computation	Photo Location ID (Appendix I) Photo Numbers (Appendix II)	Comments	Photograph Thumbnail
Tributary A2, Channel.	$n_b = 0.028$ $n_1 = 0.005$ $n_2 = 0.005$ $n_3 = 0.002$ M = 1 n = 0.040	None	Bed material sediment size approximately 5mm. Straight, smooth channel with some obstructions and vegetation.	None
Tributary A2, Floodplain.	$n_b = 0.028$ $n_1 = 0.007$ $n_2 = 0.030$ $n_3 = 0.010$ M = 1 n = 0.075	None	Bed material sediment size approximately 5mm. Appreciable obstructions in the form of brush and trees. Other vegetation consists of grasses and short weeds – moderate in summer.	None
Tributary A3, Channel.	$n_b = 0.028$ $n_1 = 0.005$ $n_2 = 0.005$ $n_3 = 0.002$ M = 1 n = 0.040	None	Bed material sediment size approximately 5mm. Straight, smooth channel with some obstructions and vegetation.	None
Tributary A3, Floodplain.	$n_b = 0.028$ $n_1 = 0.007$ $n_2 = 0.030$ $n_3 = 0.010$ M = 1 n = 0.075	None	Bed material sediment size approximately 5mm. Appreciable obstructions in the form of brush and trees. Other vegetation consists of grasses and short weeds – moderate in summer.	None
Tributary A4, Channel.	$n_b = 0.028$ $n_1 = 0.005$ $n_2 = 0.005$ $n_3 = 0.002$ M = 1 n = 0.040	None	Bed material sediment size approximately 5mm. Straight, smooth channel with some obstructions and vegetation.	None

Tributary/Reach	n-Value Computation	Photo Location ID (Appendix I) Photo Numbers (Appendix II)	Comments	Photograph Thumbnail
Tributary A4, Floodplain.	$n_b = 0.028$ $n_1 = 0.007$ $n_2 = 0.030$ $n_3 = 0.010$ M = 1 n = 0.075	None	Bed material sediment size approximately 5mm. Appreciable obstructions in the form of brush and trees. Other vegetation consists of grasses and short weeds – moderate in summer.	None
Tributary A5, Channel.	$n_b = 0.028$ $n_1 = 0.005$ $n_2 = 0.005$ $n_3 = 0.002$ M = 1 n = 0.040	None	Bed material sediment size approximately 5mm. Straight, smooth channel with some obstructions and vegetation.	None
Tributary A5, Floodplain.	$n_b = 0.028$ $n_1 = 0.007$ $n_2 = 0.030$ $n_3 = 0.010$ M = 1 n = 0.075	None	Bed material sediment size approximately 5mm. Appreciable obstructions in the form of brush and trees. Other vegetation consists of grasses and short weeds – moderate in summer.	None
Tributary B/Reach 1, Channel.	$n_b = 0.028$ $n_1 = 0.002$ $n_2 = 0.002$ $n_3 = 0.002$ M = 1 n = 0.034 Use n = 0.035	G, H 19-22, 23-24	Bed material sediment size approximately 5mm. Straight, smooth channel with few obstructions and little vegetation.	
Tributary B/Reach 1, Floodplain.	$n_b = 0.028$ $n_1 = 0.005$ $n_2 = 0.030$ $n_3 = 0.010$ M = 1 n = 0.073 Use n = 0.075	G, H 19-22, 23-24	Bed material sediment size approximately 5mm. Appreciable obstructions in the form of brush and trees. Other vegetation consists of grasses and short weeds - moderate in summer.	

Tributary/Reach	n-Value Computation	Photo Location ID (Appendix I) Photo Numbers (Appendix II)	Comments	Photograph Thumbnail
Tributary B/Reach 2, Channel.	$n_b = 0.028$ $n_1 = 0.005$ $n_2 = 0.005$ $n_3 = 0.002$ M = 1 n = 0.040	I 25-27	Bed material sediment size approximately 5mm. Straight, smooth channel with some obstructions and vegetation.	
Tributary B/Reach 2, Floodplain.	$n_b = 0.028$ $n_1 = 0.007$ $n_2 = 0.030$ $n_3 = 0.010$ M = 1 n = 0.075	I 25-27	Bed material sediment size approximately 5mm. Appreciable obstructions in the form of brush and trees. Other vegetation consists of grasses and short weeds – moderate in summer.	
Tributary B1, Channel.	$n_b = 0.028$ $n_1 = 0.005$ $n_2 = 0.005$ $n_3 = 0.002$ M = 1 n = 0.040	None	Bed material sediment size approximately 5mm. Straight, smooth channel with some obstructions and vegetation.	None
Tributary B1, Floodplain.	$n_b = 0.028$ $n_1 = 0.007$ $n_2 = 0.030$ $n_3 = 0.010$ M = 1 n = 0.075	None	Bed material sediment size approximately 5mm. Appreciable obstructions in the form of brush and trees. Other vegetation consists of grasses and short weeds – moderate in summer.	None

Tributary/Reach	n-Value Computation	Photo Location ID (Appendix I) Photo Numbers (Appendix II)	Comments	Photograph Thumbnail
Tributary B2/Reach 1, Channel.	$n_b = 0.028$ $n_1 = 0.002$ $n_2 = 0.002$ $n_3 = 0.002$ M = 1 n = 0.034 Use n = 0.035	F 16-18	Bed material sediment size approximately 5mm. Straight, smooth channel with few obstructions and little vegetation.	
Tributary B2/Reach 1, Floodplain.	$n_b = 0.028$ $n_1 = 0.005$ $n_2 = 0.030$ $n_3 = 0.010$ M = 1 n = 0.073 Use n = 0.075	F 16-18	Bed material sediment size approximately 5mm. Appreciable obstructions in the form of brush and trees. Other vegetation consists of grasses and short weeds - moderate in summer.	
Tributary B2/Reach 2, Channel.	$n_b = 0.028$ $n_1 = 0.005$ $n_2 = 0.005$ $n_3 = 0.002$ M = 1 n = 0.040	None	Bed material sediment size approximately 5mm. Straight, smooth channel with some obstructions and vegetation.	None
Tributary B2/Reach 2, Floodplain.	$n_b = 0.028$ $n_1 = 0.007$ $n_2 = 0.030$ $n_3 = 0.010$ M = 1 n = 0.075	None	Bed material sediment size approximately 5mm. Appreciable obstructions in the form of brush and trees. Other vegetation consists of grasses and short weeds – moderate in summer.	None
Tributary B3/Reach 1, Channel.	$n_b = 0.028$ $n_1 = 0.002$ $n_2 = 0.002$ $n_3 = 0.002$ M = 1 n = 0.034 Use n = 0.035	None	Bed material sediment size approximately 5mm. Straight, smooth channel with few obstructions and little vegetation.	None

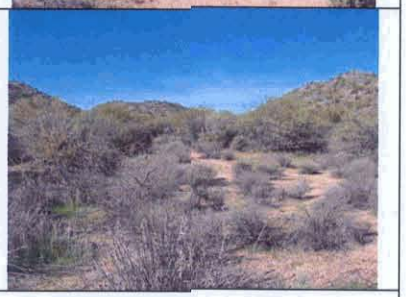
Tributary/Reach	n-Value Computation	Photo Location ID (Appendix I) Photo Numbers (Appendix II)	Comments	Photograph Thumbnail
Tributary B3/Reach 1, Floodplain.	$n_b = 0.028$ $n_1 = 0.005$ $n_2 = 0.030$ $n_3 = 0.010$ M = 1 n = 0.073 Use n = 0.075	None	Bed material sediment size approximately 5mm. Appreciable obstructions in the form of brush and trees. Other vegetation consists of grasses and short weeds - moderate in summer.	None
Tributary B3/Reach 2, Channel.	$n_b = 0.028$ $n_1 = 0.005$ $n_2 = 0.005$ $n_3 = 0.002$ M = 1 n = 0.040	None	Bed material sediment size approximately 5mm. Straight, smooth channel with some obstructions and vegetation.	None
Tributary B3/Reach 2, Floodplain.	$n_b = 0.028$ $n_1 = 0.007$ $n_2 = 0.030$ $n_3 = 0.010$ M = 1 n = 0.075	None	Bed material sediment size approximately 5mm. Appreciable obstructions in the form of brush and trees. Other vegetation consists of grasses and short weeds – moderate in summer.	None
Tributary C/Reach 1, Channel.	$n_b = 0.028$ $n_1 = 0.002$ $n_2 = 0.002$ $n_3 = 0.002$ M = 1 n = 0.034 Use n = 0.035	K, L 35-40, 41-44	Bed material sediment size approximately 5mm. Straight, smooth channel with few obstructions and little vegetation except along channel banks.	

Tributary/Reach	n-Value Computation	Photo Location ID (Appendix I) Photo Numbers (Appendix II)	Comments	Photograph Thumbnail
Tributary C/Reach 1, Floodplain.	$n_b = 0.028$ $n_1 = 0.005$ $n_2 = 0.030$ $n_3 = 0.010$ M = 1 n = 0.073 Use n = 0.075	K, L 35-40, 41-44	Bed material sediment size approximately 5mm. Appreciable obstructions in the form of brush and trees. Other vegetation consists of grasses and short weeds - moderate in summer.	
Tributary C/Reach 2, Channel.	$n_b = 0.028$ $n_1 = 0.020$ $n_2 = 0.020$ $n_3 = 0.002$ M = 1 n = 0.0.070	J 32-34	Bed material sediment size approximately 5mm. Steep channel with bed comprised of boulders. Rocky, uneven channel banks. Moderate to slight vegetation.	
Tributary C/Reach 2, Floodplain.	$n_b = 0.028$ $n_1 = 0.020$ $n_2 = 0.030$ $n_3 = 0.010$ M = 1 n = 0.088 Use n = 0.090	J 32-34	Bed material sediment size approximately 5mm. Very irregular, steep surface comprised of boulders and shrubs.	
Tributary C/Reach 3, Channel.	$n_b = 0.028$ $n_1 = 0.005$ $n_2 = 0.005$ $n_3 = 0.002$ M = 1 n = 0.040	J 28-32	Bed material sediment size approximately 5mm. Straight, smooth channel with some obstructions and vegetation.	

Tributary/Reach	n-Value Computation	Photo Location ID (Appendix I) Photo Numbers (Appendix II)	Comments	Photograph Thumbnail
Tributary C/Reach 3, Floodplain.	$n_b = 0.028$ $n_1 = 0.007$ $n_2 = 0.030$ $n_3 = 0.015$ M = 1 n = 0.080	J 28-32	Bed material sediment size approximately 5mm. Appreciable obstructions in the form of brush and trees. Grasses and small, woody shrubs cover much of the ground at a height of 1-2 feet.	
Tributary C1/Reach 1, Channel.	$n_b = 0.028$ $n_1 = 0.002$ $n_2 = 0.002$ $n_3 = 0.002$ M = 1 n = 0.036 Use n = 0.035	None	Bed material sediment size approximately 5mm. Straight, smooth channel with few obstructions and little vegetation except along channel banks.	None
Tributary C1/Reach 1, Floodplain.	$n_b = 0.028$ $n_1 = 0.005$ $n_2 = 0.030$ $n_3 = 0.010$ M = 1 n = 0.073 Use n = 0.075	None	Bed material sediment size approximately 5mm. Appreciable obstructions in the form of brush and trees. Other vegetation consists of grasses and short weeds - moderate in summer.	None
Tributary C1/Reach 2, Channel.	$n_b = 0.028$ $n_1 = 0.020$ $n_2 = 0.020$ $n_3 = 0.002$ M = 1 n = 0.0.070	None	Bed material sediment size approximately 5mm. Steep channel with bed comprised of boulders. Rocky, uneven channel banks. Moderate to slight vegetation.	None
Tributary C1/Reach 2, Floodplain.	$n_b = 0.028$ $n_1 = 0.020$ $n_2 = 0.030$ $n_3 = 0.010$ M = 1 n = 0.088 Use n = 0.090	None	Bed material sediment size approximately 5mm. Very irregular, steep surface comprised of boulders and shrubs.	None

Tributary/Reach	n-Value Computation	Photo Location ID (Appendix I) Photo Numbers (Appendix II)	Comments	Photograph Thumbnail
Tributary C1/Reach 3, Channel.	$n_b = 0.028$ $n_1 = 0.005$ $n_2 = 0.005$ $n_3 = 0.002$ M = 1 n = 0.040	None	Bed material sediment size approximately 5mm. Straight, smooth channel with some obstructions and vegetation.	None
Tributary C1/Reach 3, Floodplain.	$n_b = 0.028$ $n_1 = 0.007$ $n_2 = 0.030$ $n_3 = 0.010$ M = 1 n = 0.075	None	Bed material sediment size approximately 5mm. Appreciable obstructions in the form of brush and trees. Other vegetation consists of grasses and short weeds – moderate in summer.	None
Tributary C2, Channel.	$n_b = 0.028$ $n_1 = 0.005$ $n_2 = 0.005$ $n_3 = 0.002$ M = 1 n = 0.040	None	Bed material sediment size approximately 5mm. Straight, smooth channel with some obstructions and vegetation.	None
Tributary C2, Floodplain.	$n_b = 0.028$ $n_1 = 0.007$ $n_2 = 0.030$ $n_3 = 0.010$ M = 1 n = 0.075	None	Bed material sediment size approximately 5mm. Appreciable obstructions in the form of brush and trees. Other vegetation consists of grasses and short weeds – moderate in summer.	None
Tributary C3, Channel.	$n_b = 0.026$ $n_1 = 0.002$ $n_2 = 0.002$ $n_3 = 0.002$ M = 1 n = 0.033 Use n = 0.035	N 47-51	Bed material sediment size approximately 5mm. Straight, smooth channel with few obstructions and little vegetation except along channel banks.	

Tributary/Reach	n-Value Computation	Photo Location ID (Appendix I) Photo Numbers (Appendix II)	Comments	Photograph Thumbnail
Tributary C3, Floodplain.	$n_b = 0.028$ $n_1 = 0.007$ $n_2 = 0.030$ $n_3 = 0.015$ M = 1 n = 0.080	N 47-51	Bed material sediment size approximately 5mm. Appreciable obstructions in the form of brush and trees. Grasses and small, woody shrubs cover much of the ground at a height of 1-2 feet.	
Tributary C4, Channel.	$n_b = 0.028$ $n_1 = 0.002$ $n_2 = 0.002$ $n_3 = 0.002$ M = 1 n = 0.036 Use n = 0.035	None	Bed material sediment size approximately 5mm. Straight, smooth channel with few obstructions and little vegetation except along channel banks.	None
Tributary C4, Floodplain.	$n_b = 0.028$ $n_1 = 0.005$ $n_2 = 0.030$ $n_3 = 0.010$ M = 1 n = 0.073 Use n = 0.075	None	Bed material sediment size approximately 5mm. Appreciable obstructions in the form of brush and trees. Other vegetation consists of grasses and short weeds - moderate in summer.	None
Tributary C5, Channel.	$n_b = 0.028$ $n_1 = 0.002$ $n_2 = 0.002$ $n_3 = 0.002$ M = 1 n = 0.036 Use n = 0.035	S 71-73	Bed material sediment size approximately 5mm. Straight, smooth channel with few obstructions and little vegetation except along channel banks.	

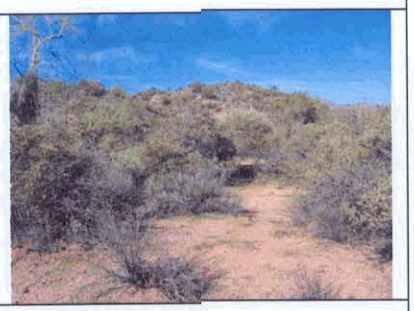
Tributary/Reach	n-Value Computation	Photo Location ID (Appendix I) Photo Numbers (Appendix II)	Comments	Photograph Thumbnail
Tributary C5, Floodplain.	$n_b = 0.028$ $n_1 = 0.005$ $n_2 = 0.030$ $n_3 = 0.010$ M = 1 n = 0.073 Use n = 0.075	S 71-73	Bed material sediment size approximately 5mm. Appreciable obstructions in the form of brush and trees. Other vegetation consists of grasses and short weeds - moderate in summer.	
Tributary D/Reach 1, Channel.	$n_b = 0.028$ $n_1 = 0.002$ $n_2 = 0.004$ $n_3 = 0.005$ M = 1 n = 0.039 Use n = 0.040	M 45-46	Bed material sediment size approximately 5mm. Straight, smooth channel with some obstructions and moderately heavy vegetation along the channel banks.	
Tributary D/Reach 1, Floodplain.	$n_b = 0.028$ $n_1 = 0.005$ $n_2 = 0.030$ $n_3 = 0.010$ M = 1 n = 0.073 Use n = 0.075	M 45-46	Bed material sediment size approximately 5mm. Appreciable obstructions in the form of brush and trees. Other vegetation consists of grasses and short weeds - moderate in summer.	
Tributary D/Reach 2, Channel.	$n_b = 0.028$ $n_1 = 0.005$ $n_2 = 0.005$ $n_3 = 0.002$ M = 1 n = 0.040	None	Bed material sediment size approximately 5mm. Straight, smooth channel with some obstructions and vegetation.	None

Tributary/Reach	n-Value Computation	Photo Location ID (Appendix I) Photo Numbers (Appendix II)	Comments	Photograph Thumbnail
Tributary D/Reach 2, Floodplain.	$n_b = 0.028$ $n_1 = 0.007$ $n_2 = 0.030$ $n_3 = 0.010$ M = 1 n = 0.075	None	Bed material sediment size approximately 5mm. Appreciable obstructions in the form of brush and trees. Other vegetation consists of grasses and short weeds – moderate in summer.	None
Tributary E/Reach 1, Channel.	$n_b = 0.028$ $n_1 = 0.002$ $n_2 = 0.002$ $n_3 = 0.002$ M = 1 n = 0.036 Use n = 0.035	O 52-53	Bed material sediment size approximately 5mm. Straight, smooth channel with few obstructions and little vegetation except along channel banks.	
Tributary E/Reach 1, Floodplain.	$n_b = 0.028$ $n_1 = 0.005$ $n_2 = 0.030$ $n_3 = 0.010$ M = 1 n = 0.073 Use n = 0.075	O 52-53	Bed material sediment size approximately 5mm. Appreciable obstructions in the form of brush and trees. Other vegetation consists of grasses and short weeds - moderate in summer.	
Tributary E/Reach 2, Channel.	$n_b = 0.028$ $n_1 = 0.005$ $n_2 = 0.005$ $n_3 = 0.002$ M = 1 n = 0.040	None	Bed material sediment size approximately 5mm. Straight, smooth channel with some obstructions and vegetation.	None

Tributary/Reach	n-Value Computation	Photo Location ID (Appendix I) Photo Numbers (Appendix II)	Comments	Photograph Thumbnail
Tributary E/Reach 2, Floodplain.	$n_b = 0.028$ $n_1 = 0.007$ $n_2 = 0.030$ $n_3 = 0.010$ M = 1 n = 0.075	None	Bed material sediment size approximately 5mm. Appreciable obstructions in the form of brush and trees. Other vegetation consists of grasses and short weeds – moderate in summer.	None
Tributary F/Reach 1, Channel.	$n_b = 0.028$ $n_1 = 0.002$ $n_2 = 0.002$ $n_3 = 0.002$ M = 1 n = 0.034 Use n = 0.035	P 54-59	Bed material sediment size approximately 5mm. Straight, smooth channel with few obstructions and little vegetation except along channel banks.	None
Tributary F/Reach 1, Floodplain.	$n_b = 0.028$ $n_1 = 0.005$ $n_2 = 0.030$ $n_3 = 0.010$ M = 1 n = 0.073 Use n = 0.075	P 54-59	Bed material sediment size approximately 5mm. Appreciable obstructions in the form of brush and trees. Other vegetation consists of grasses and short weeds - moderate in summer.	
Tributary F/Reach 2, Channel.	$n_b = 0.028$ $n_1 = 0.005$ $n_2 = 0.005$ $n_3 = 0.002$ M = 1 n = 0.040	None	Bed material sediment size approximately 5mm. Straight, smooth channel with some obstructions and vegetation.	None
Tributary F/Reach 2, Floodplain.	$n_b = 0.028$ $n_1 = 0.007$ $n_2 = 0.030$ $n_3 = 0.010$ M = 1 n = 0.075	None	Bed material sediment size approximately 5mm. Appreciable obstructions in the form of brush and trees. Other vegetation consists of grasses and short weeds – moderate in summer.	None

Tributary/Reach	n-Value Computation	Photo Location ID (Appendix I) Photo Numbers (Appendix II)	Comments	Photograph Thumbnail
Tributary F1, Channel.	$n_b = 0.028$ $n_1 = 0.002$ $n_2 = 0.002$ $n_3 = 0.002$ M = 1 n = 0.034 Use n = 0.035	T 74-78	Bed material sediment size approximately 5mm. Straight, smooth channel with few obstructions and little vegetation except along channel banks.	
Tributary F1, Floodplain.	$n_b = 0.028$ $n_1 = 0.007$ $n_2 = 0.030$ $n_3 = 0.010$ M = 1 n = 0.075	T 74-78	Bed material sediment size approximately 5mm. Appreciable obstructions in the form of brush and trees. Other vegetation consists of grasses and short weeds – moderate in summer.	
Tributary G/Reach 1, Channel.	$n_b = 0.028$ $n_1 = 0.002$ $n_2 = 0.002$ $n_3 = 0.002$ M = 1 n = 0.034 Use n = 0.035	Q 60-64	Bed material sediment size approximately 5mm. Straight, smooth channel with few obstructions and little vegetation except along channel banks.	

Tributary/Reach	n-Value Computation	Photo Location ID (Appendix I) Photo Numbers (Appendix II)	Comments	Photograph Thumbnail
Tributary G/Reach 1, Floodplain.	n_b = 0.028 n_1 = 0.007 n_2 = 0.030 n_3 = 0.010 M = 1 n = 0.075	Q 60-64	Bed material sediment size approximately 5mm. Appreciable obstructions in the form of brush and trees. Other vegetation consists of grasses and short weeds – moderate in summer.	
Tributary G/Reach 2, Channel.	n_b = 0.028 n_1 = 0.002 n_2 = 0.002 n_3 = 0.002 M = 1 n = 0.034 Use n = 0.035	None	Bed material sediment size approximately 5mm. Straight, smooth channel with few obstructions and little vegetation except along channel banks.	None
Tributary G/Reach 2, Floodplain.	n_b = 0.028 n_1 = 0.007 n_2 = 0.030 n_3 = 0.010 M = 1 n = 0.075	None	Bed material sediment size approximately 5mm. Appreciable obstructions in the form of brush and trees. Other vegetation consists of grasses and short weeds – moderate in summer.	None
Tributary H/Reach 1, Channel.	n_b = 0.028 n_1 = 0.005 n_2 = 0.005 n_3 = 0.002 M = 1 n = 0.040	R 65-70	Bed material sediment size approximately 5mm. Straight, smooth channel with some obstructions and vegetation. Moderately heavy vegetation along the channel banks.	

Tributary/Reach	n-Value Computation	Photo Location ID (Appendix I) Photo Numbers (Appendix II)	Comments	Photograph Thumbnail
Tributary H/Reach 1, Floodplain.	$n_b = 0.028$ $n_1 = 0.007$ $n_2 = 0.030$ $n_3 = 0.015$ M = 1 n = 0.080	R 65-70	Bed material sediment size approximately 5mm. Appreciable obstructions in the form of brush and trees.	
Tributary H/Reach 2, Channel.	$n_b = 0.028$ $n_1 = 0.002$ $n_2 = 0.002$ $n_3 = 0.002$ M = 1 n = 0.034 Use n = 0.035	None	Bed material sediment size approximately 5mm. Straight, smooth channel with few obstructions and little vegetation except along channel banks.	None
Tributary H/Reach 2, Floodplain.	$n_b = 0.028$ $n_1 = 0.007$ $n_2 = 0.030$ $n_3 = 0.010$ M = 1 n = 0.075	None	Bed material sediment size approximately 5mm. Appreciable obstructions in the form of brush and trees. Other vegetation consists of grasses and short weeds – moderate in summer.	None
Tributary I/Reach 1, Channel.	$n_b = 0.028$ $n_1 = 0.005$ $n_2 = 0.004$ $n_3 = 0.002$ M = 1 n = 0.039 Use n = 0.040	V 84-86	Bed material sediment size approximately 5mm. Relatively straight channel with some irregularities and obstructions. Little vegetation except along channel banks.	

Tributary/Reach	n-Value Computation	Photo Location ID (Appendix I) Photo Numbers (Appendix II)	Comments	Photograph Thumbnail
Tributary I/Reach 1, Floodplain.	$n_b = 0.028$ $n_1 = 0.007$ $n_2 = 0.030$ $n_3 = 0.010$ M = 1 n = 0.075	V 84-86	Bed material sediment size approximately 5mm. Appreciable obstructions in the form of brush and trees. Other vegetation consists of grasses and short weeds – moderate in summer.	
Tributary I/Reach 2, Channel.	$n_b = 0.028$ $n_1 = 0.002$ $n_2 = 0.005$ $n_3 = 0.007$ M = 1 n = 0.042 Use n = 0.040	U 79-83	Bed material sediment size approximately 5mm. Straight, smooth channel with moderate obstructions and some brush growing in the channel.	
Tributary I/Reach 2, Floodplain.	$n_b = 0.028$ $n_1 = 0.010$ $n_2 = 0.030$ $n_3 = 0.010$ M = 1 n = 0.078 Use 0.080	U 79-83	Bed material sediment size approximately 5mm. Appreciable obstructions in the form of brush and trees. Other vegetation consists of extensive grasses and weeds.	
Tributary J/Reach 1, Channel.	$n_b = 0.028$ $n_1 = 0.002$ $n_2 = 0.002$ $n_3 = 0.002$ M = 1 n = 0.034 Use n = 0.035	None	Bed material sediment size approximately 5mm. Straight, smooth channel with few obstructions and little vegetation except along channel banks.	None

Tributary/Reach	n-Value Computation	Photo Location ID (Appendix I) Photo Numbers (Appendix II)	Comments	Photograph Thumbnail
Tributary J/Reach 1, Floodplain.	$n_b = 0.028$ $n_1 = 0.007$ $n_2 = 0.030$ $n_3 = 0.010$ M = 1 n = 0.075	None	Bed material sediment size approximately 5mm. Appreciable obstructions in the form of brush and trees. Other vegetation consists of grasses and short weeds – moderate in summer.	None
Tributary J/Reach 2, Channel.	$n_b = 0.028$ $n_1 = 0.002$ $n_2 = 0.002$ $n_3 = 0.002$ M = 1 n = 0.034 Use n = 0.035	None	Bed material sediment size approximately 5mm. Straight, smooth channel with few obstructions and little vegetation except along channel banks.	None
Tributary J/Reach 2, Floodplain.	$n_b = 0.028$ $n_1 = 0.007$ $n_2 = 0.030$ $n_3 = 0.010$ M = 1 n = 0.075	None	Bed material sediment size approximately 5mm. Appreciable obstructions in the form of brush and trees. Other vegetation consists of grasses and short weeds – moderate in summer.	None

IV. References

1. Phillips, J. V. and Ingersoll, T. L., 1998, *Verification of Roughness Coefficients for Selected Natural and Constructed Stream Channels in Arizona*, U. S. Geological Survey professional Paper 1584, Denver, Colorado

2. Phillips, J. V., McDoniel, D., Capesius, J. P., Asquith, W., 1998, *Method to Estimate Effects of Flow-Induced Vegetation Changes on Channel Conveyances of Streams in Central Arizona*, U. S. Geological Survey, Water-Resources Investigations Report 98-4040, Tucson, Arizona

3. Thomsen, B. W. and Hjalmarsom, 1991, *Estimated Manning's Roughness Coefficients for Stream Channels and Flood Plains in Maricopa County, Arizona*, U. S. Geological Survey, Water Resources Division, Tucson, Arizona

4. Aldridge, B. N. and Garrett, J. M., 1973, *Roughness Coefficients for Stream Channels in Arizona*, U. S. Geological Survey, Tucson, Arizona

Appendix I
to the *n* Value Report
Field Photos and Tributary Locations

for the
Camp Creek Tributaries Floodplain Delineation Study
Contract FCD 2004C023

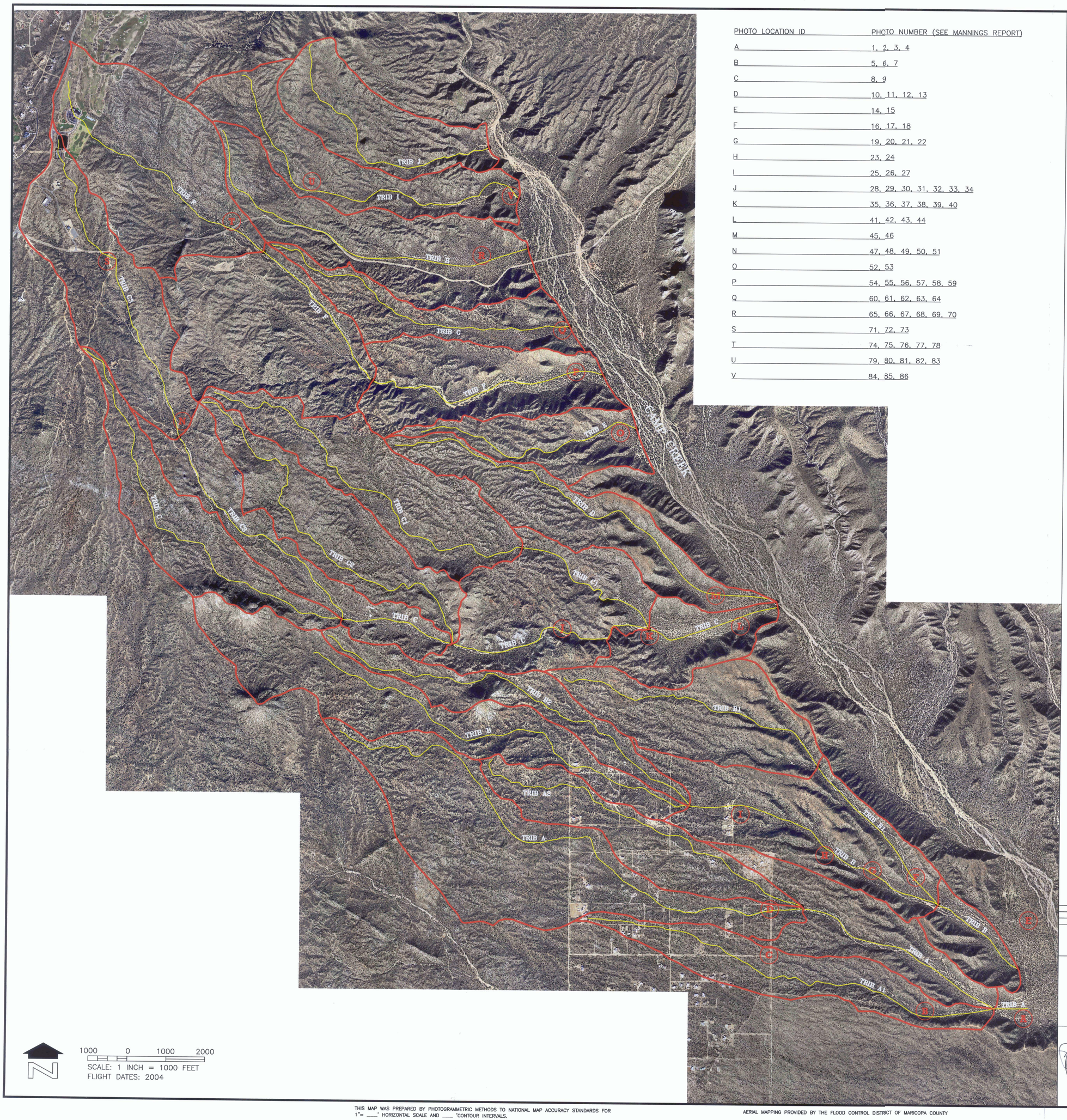


PHOTO LOCATION ID	PHOTO NUMBER (SEE MANNINGS REPORT)
A	1, 2, 3, 4
B	5, 6, 7
C	8, 9
D	10, 11, 12, 13
E	14, 15
F	16, 17, 18
G	19, 20, 21, 22
H	23, 24
I	25, 26, 27
J	28, 29, 30, 31, 32, 33, 34
K	35, 36, 37, 38, 39, 40
L	41, 42, 43, 44
M	45, 46
N	47, 48, 49, 50, 51
O	52, 53
P	54, 55, 56, 57, 58, 59
Q	60, 61, 62, 63, 64
R	65, 66, 67, 68, 69, 70
S	71, 72, 73
T	74, 75, 76, 77, 78
U	79, 80, 81, 82, 83
V	84, 85, 86

LEGEND

PHOTO LOCATION ID — K

TRIBUTARY TO CAMP CREEK

TRIBUTARY IDENTIFIER — TRIB H

SUBBASIN BOUNDARY

1000 0 1000 2000

SCALE: 1 INCH = 1000 FEET
FLIGHT DATES: 2004

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS FOR 1"= ____' HORIZONTAL SCALE AND ____ 'CONTOUR INTERVALS.

AERIAL MAPPING PROVIDED BY THE FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

NO.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

APPENDIX 1
Field Photo and Tributary Locations

Hydraulic Boundary Roughness Report
Camp Creek Tributaries Floodplain
Delineation Study, Contract FCD 2004C023

Registered Professional Engineer (Civil) — CERTIFICATE NO. 21699 — PHILIP O. LOWE — Date Signed 1/12/05 — ARIZONA, U.S.A.

Aspen
Consulting Engineers
A Division of **Aspen Environmental Group**

	BY	DATE
DESIGN	POL	01/12/05
DESIGN CHK.	–	–
PLANS	JCS	01/12/05
PLANS CHK.	–	–

SHEET 1 OF 1

Appendix II
to the *n* Value Report
Field Photos

for the
Camp Creek Tributaries Floodplain Delineation Study
Contract FCD 2004C023

PHOTO 0001, DATE 12/08/04, FACING WEST

PHOTO 0002, DATE 12/08/04, FACING WEST

PHOTO 0003, DATE 12/08/04, FACING WEST

PHOTO 0004, DATE 12/08/04, FACING EAST

PHOTO 0005, DATE 12/08/04, FACING NORTHWEST

PHOTO 0006, DATE 12/08/04, FACING NORTH

PHOTO 0007, DATE 12/08/04, FACING NORTHEAST

PHOTO 0008, DATE 12/08/04, FACING EAST

PHOTO 0009, DATE 12/08/04, FACING EAST

PHOTO 0010, DATE 12/08/04, FACING WEST

PHOTO 0011, DATE 12/08/04, FACING WEST

PHOTO 0012, DATE 12/08/04, FACING EAST

PHOTO 0013, DATE 12/08/04, FACING EAST

PHOTO 0014, DATE 12/08/04, FACING SOUTH

PHOTO 0015, DATE 12/08/04, FACING NORTH

PHOTO 0016, DATE 12/17/04, FACING NORTHEAST

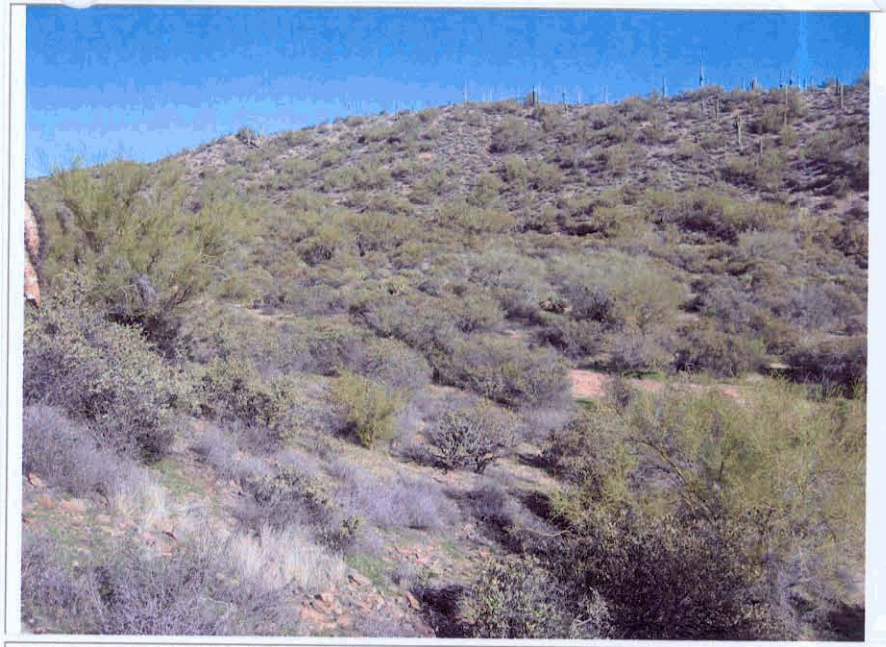


PHOTO 0017, DATE 12/17/04, FACING NORTHEAST

PHOTO 0018, DATE 12/17/04, FACING NORTHWEST

PHOTO 0019, DATE 12/08/04, FACING SOUTHEAST

PHOTO 0020, DATE 12/08/04, FACING SOUTH

PHOTO 0021, DATE 12/08/04, FACING WEST

PHOTO 0022, DATE 12/08/04, FACING NORTH

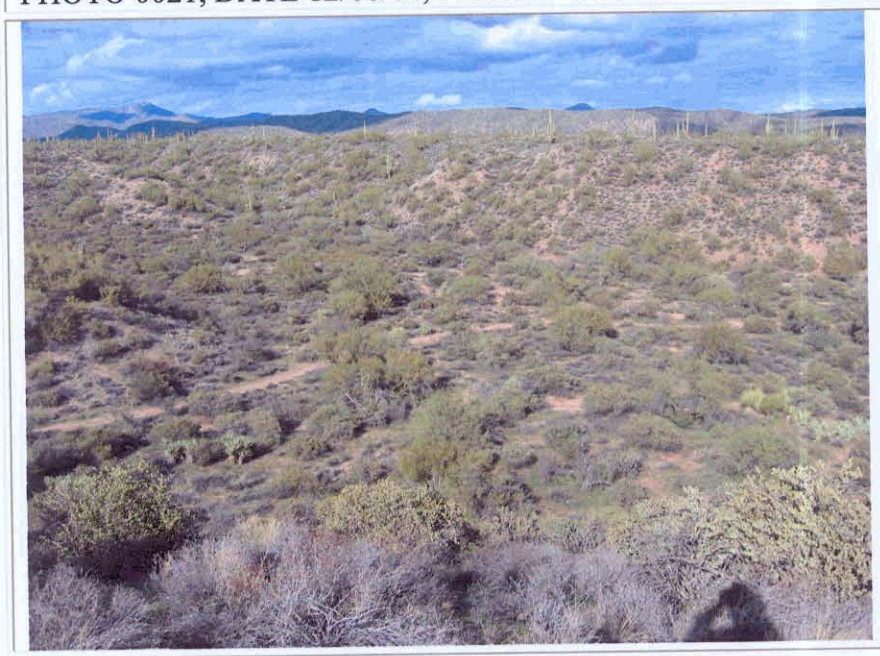


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PHOTO 0024, DATE 12/08/04, FACING EAST

PHOTO 0025, DATE 12/20/04, FACING WEST

PHOTO 0026, DATE 12/20/04, FACING EAST

PHOTO 0027, DATE 12/20/04, FACING NORTHWEST

PHOTO 0028, DATE 12/20/04, FACING NORTHWEST

PHOTO 0029, DATE 12/20/04, FACING EAST

PHOTO 0030, DATE 12/20/04, FACING SOUTHWEST

PHOTO 0031, DATE 12/20/04, FACING EAST

PHOTO 0032, DATE 12/20/04

PHOTO 0033, DATE 12/20/04, FACING SOUTH

PHOTO 0034, DATE 12/20/04, FACING SOUTHEAST

PHOTO 0035, DATE 12/20/04, FACING WEST

PHOTO 0036, DATE 12/20/04, FACING EAST

PHOTO 0037, DATE 12/20/04, FACING EAST

PHOTO 0038, DATE 12/20/04, FACING NORTH

PHOTO 0039, DATE 12/20/04, FACING EAST

PHOTO 0040, DATE 12/20/04, FACING EAST

PHOTO 0041, DATE 12/20/04, FACING WEST

PHOTO 0042, DATE 12/20/04, FACING NORTH

PHOTO 0043, DATE 12/20/04, FACING EAST

PHOTO 0044, DATE 12/20/04, FACING SOUTH

PHOTO 0045, DATE 12/20/04, FACING NORTHWEST

PHOTO 0046, DATE 12/20/04, FACING NORTHWEST

PHOTO 0047, DATE 12/20/04, FACING NORTHWEST

PHOTO 0048, DATE 12/20/04, FACING NORTHWEST

PHOTO 0049, DATE 12/20/04, FACING NORTHWEST

PHOTO 0050, DATE 12/20/04, FACING SOUTHEAST

PHOTO 0051, DATE 12/20/04

PHOTO 0052, DATE 12/20/04, FACING WEST

PHOTO 0053, DATE 12/20/04, FACING WEST

PHOTO 0054, DATE 12/20/04, FACING WEST

PHOTO 0055, DATE 12/20/04, FACING NORTHWEST

PHOTO 0056, DATE 12/20/04, FACING NORTHWEST

PHOTO 0057, DATE 12/20/04, FACING NORTHWEST

PHOTO 0058, DATE 12/20/04, FACING NORTH

PHOTO 0059, DATE 12/20/04

PHOTO 0060, DATE 12/20/04, FACING WEST

PHOTO 0061, DATE 12/20/04, FACING WEST

PHOTO 0062, DATE 12/20/04, FACING WEST

PHOTO 0063, DATE 12/20/04, FACING SOUTHWEST

PHOTO 0064, DATE 12/20/04

PHOTO 0065, DATE 12/20/04, FACING WEST

PHOTO 0066, DATE 12/20/04, FACING EAST

PHOTO 0067, DATE 12/20/04, FACING NORTH

PHOTO 0068, DATE 12/20/04, FACING WEST

PHOTO 0069, DATE 12/20/04, FACING NORTH

PHOTO 0070, DATE 12/20/04

PHOTO 0071, DATE 12/20/04, FACING NORTH

PHOTO 0072, DATE 12/20/04, FACING NORTH

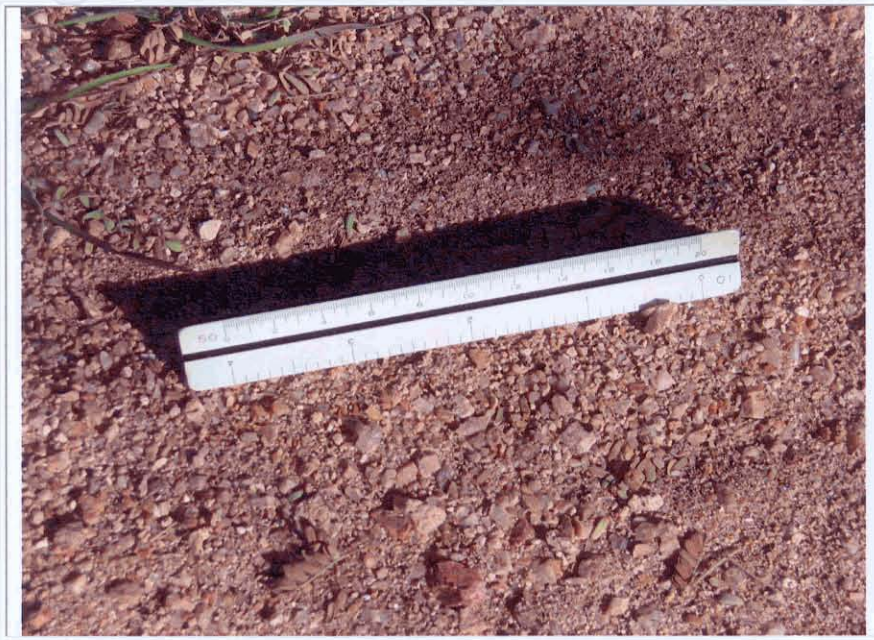


PHOTO 0073, DATE 12/20/04

PHOTO 0074, DATE 12/20/04, FACING NORTHWEST

PHOTO 0075, DATE 12/20/04, FACING NORTHWEST

PHOTO 0076, DATE 12/20/04

PHOTO 0077, DATE 12/20/04, FACING SOUTHEAST

PHOTO 0078, DATE 12/20/04, FACING SOUTHEAST

PHOTO 0079, DATE 12/20/04, FACING NORTHWEST

PHOTO 0080, DATE 12/20/04, FACING WEST

PHOTO 0081, DATE 12/20/04, FACING EAST

PHOTO 0082, DATE 12/20/04, FACING WEST

PHOTO 0083, DATE 12/20/04

PHOTO 0084, DATE 12/20/04, FACING WEST

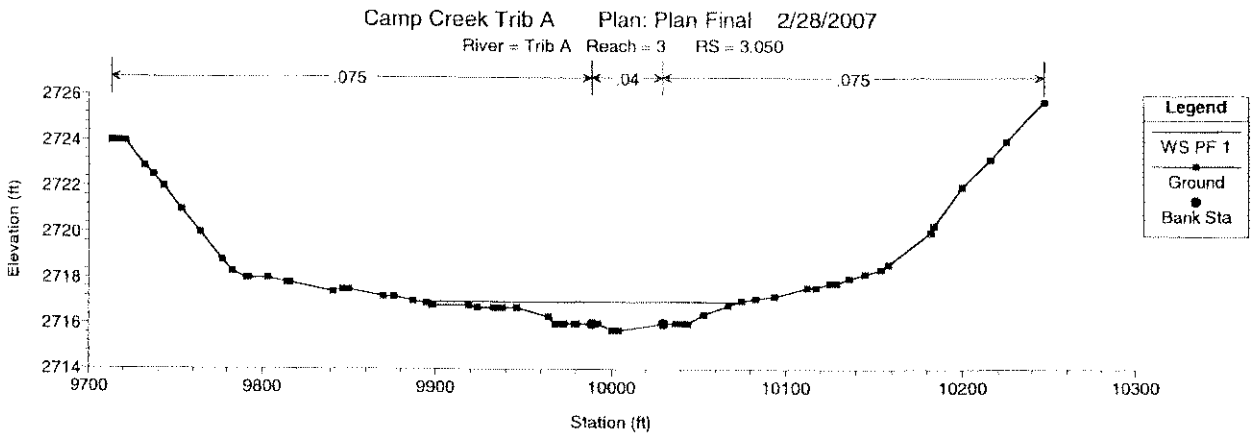
PHOTO 0085, DATE 12/20/04, FACING WEST

PHOTO 0086, DATE 12/20/04, FACING NORTHWEST

PHOTO 0087, DATE 12/20/04

E.2 Cross Section Plots

The cross section plots are located on the following pages.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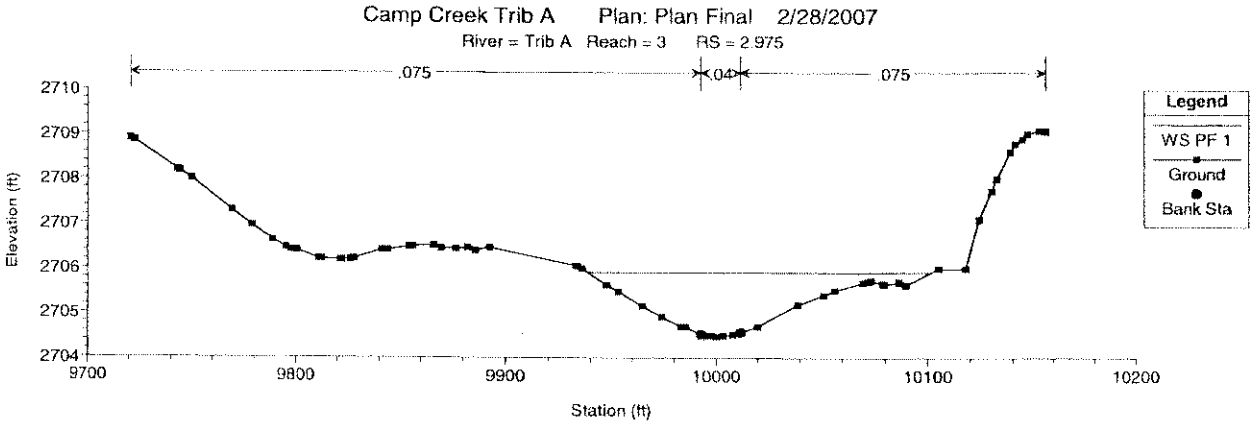
.075
.04
.075
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)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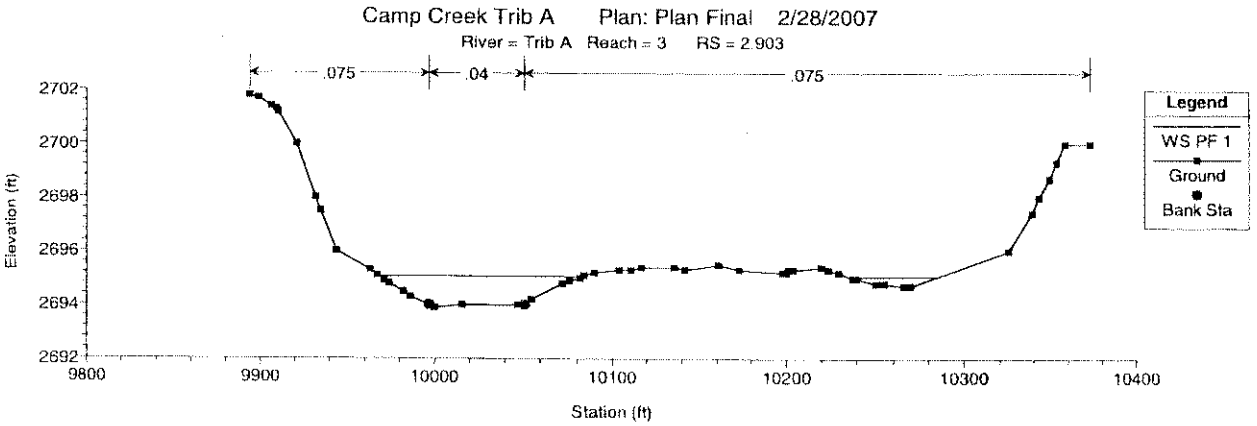
.04
.075
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)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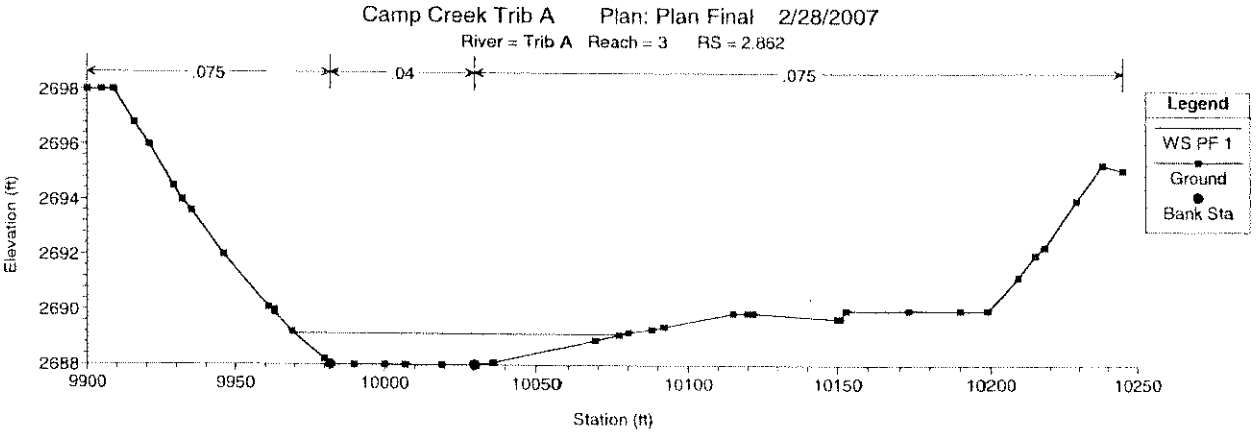
.04
.075
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)


Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A Reach = 3 RS = 2.862
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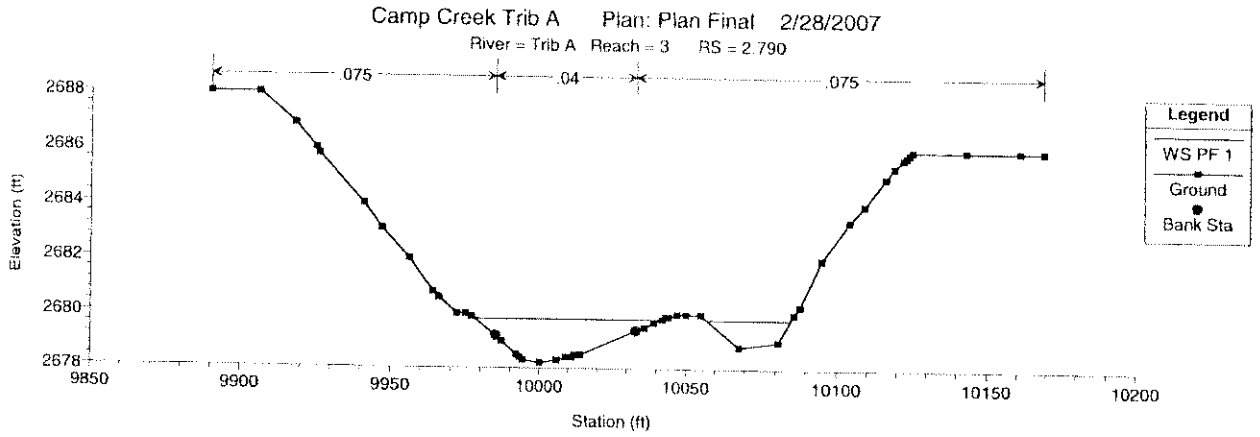
.04
.075
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)


Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A Reach = 3 RS = 2.790
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.04
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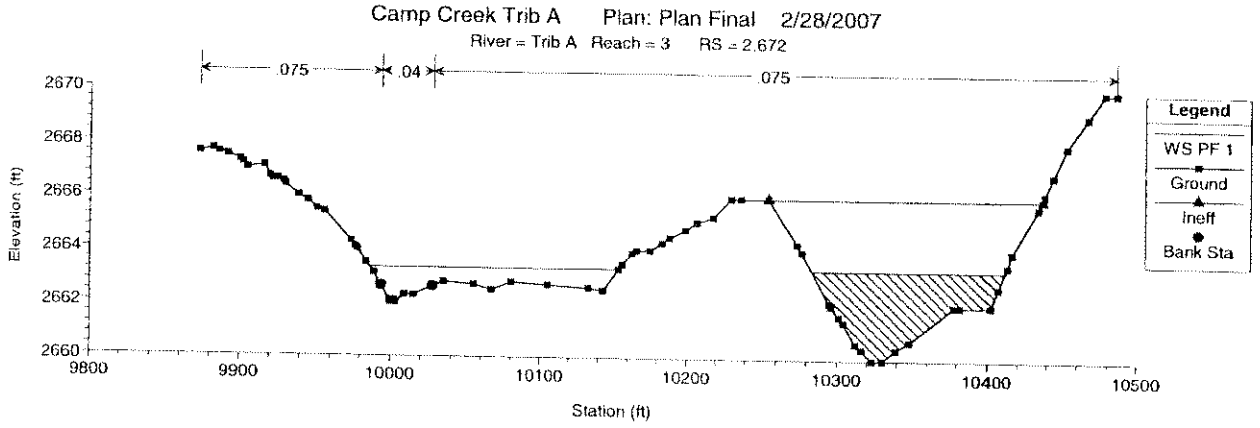
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A Reach = 3 RS = 2.672
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.04
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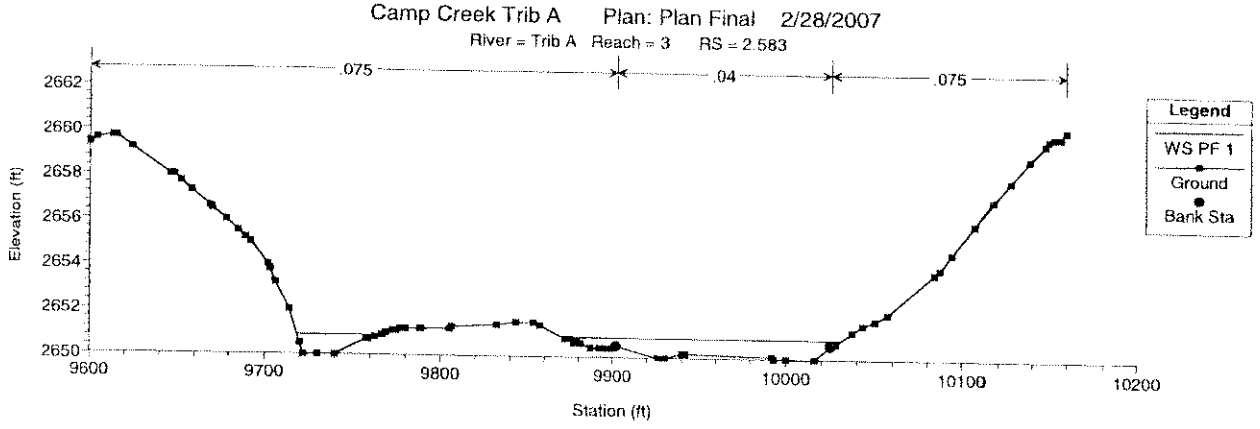
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Ineff
Bank Sta


Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A Reach = 3 RS = 2.583
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.04
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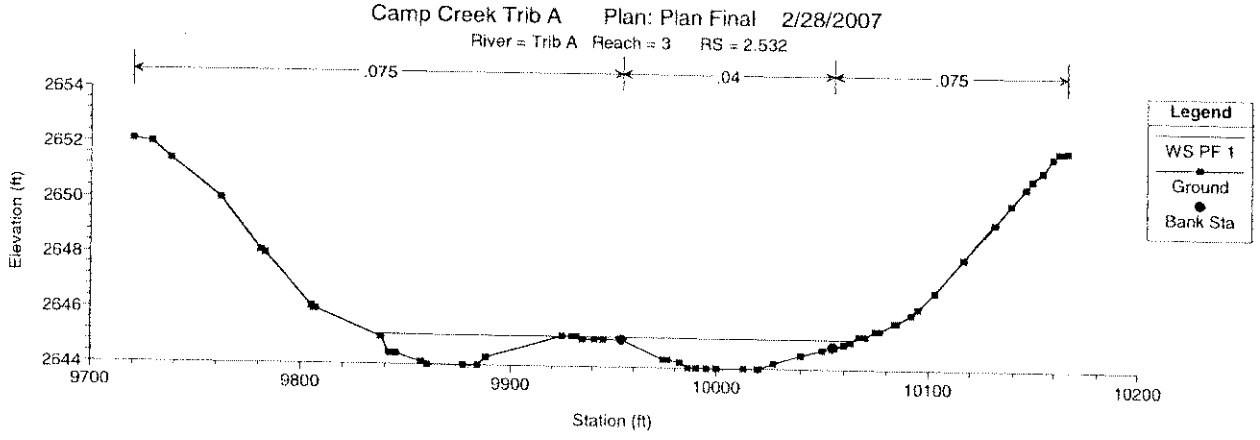
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A Reach = 3 RS = 2.532
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.04
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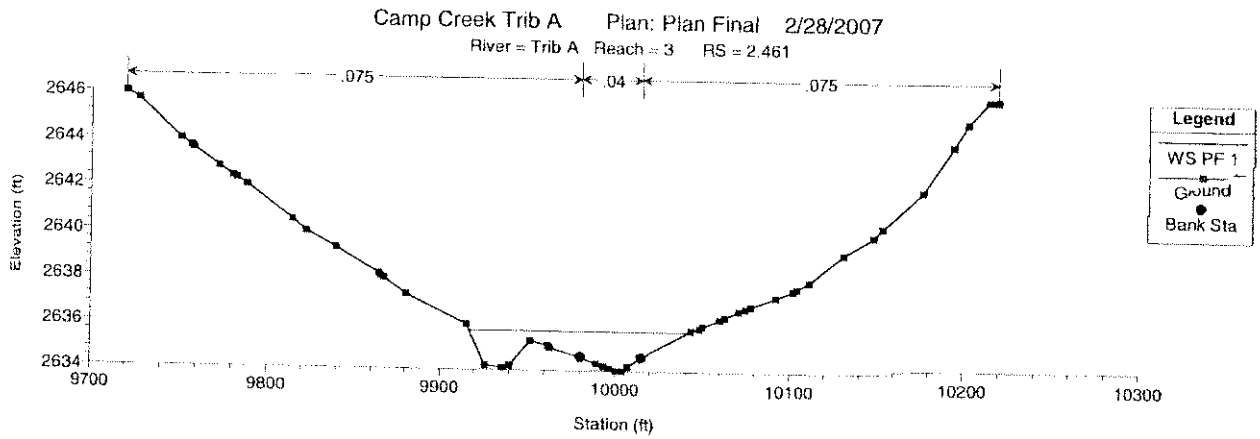
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A Reach = 3 RS = 2.461
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.04
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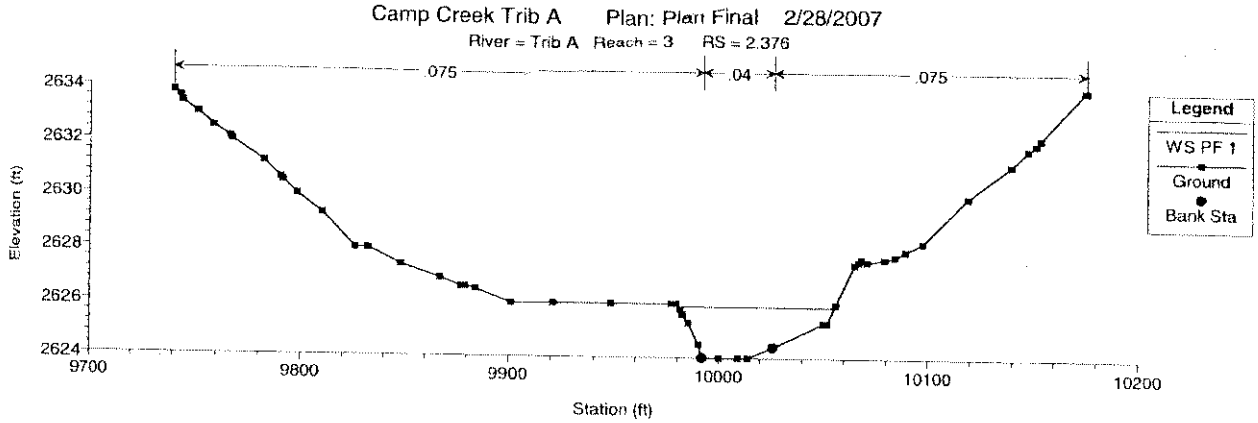
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A Reach = 3 RS = 2.376
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.04
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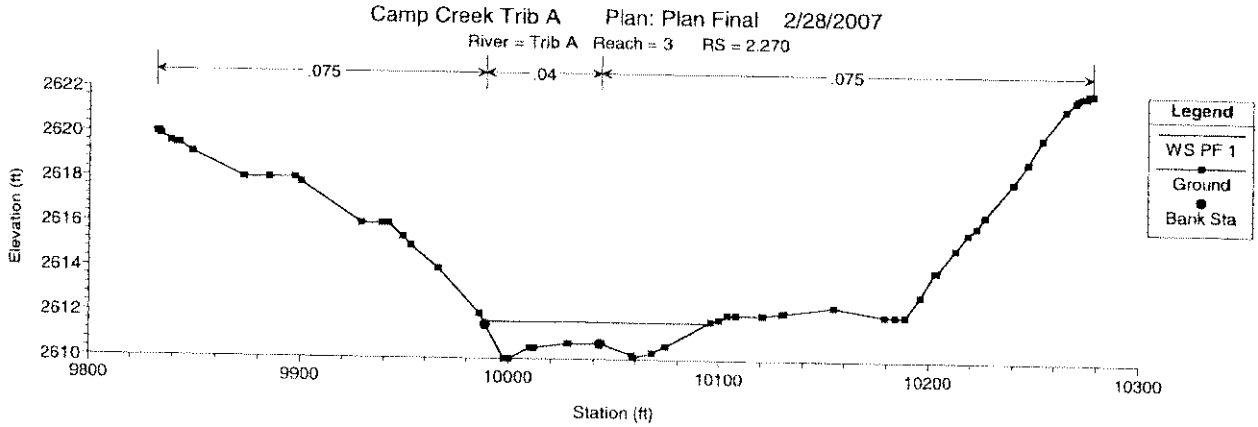
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A Reach = 3 RS = 2.270
.075
.04
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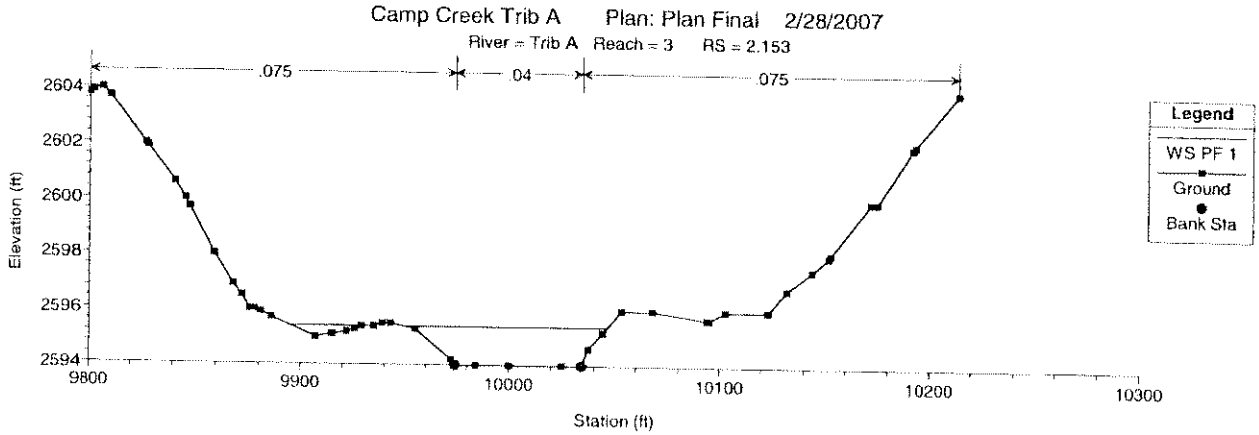
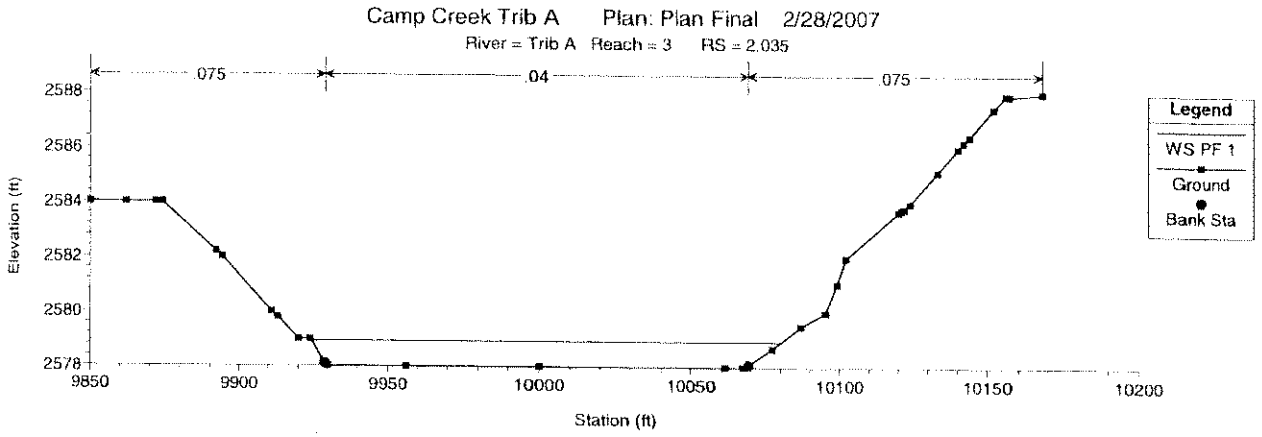
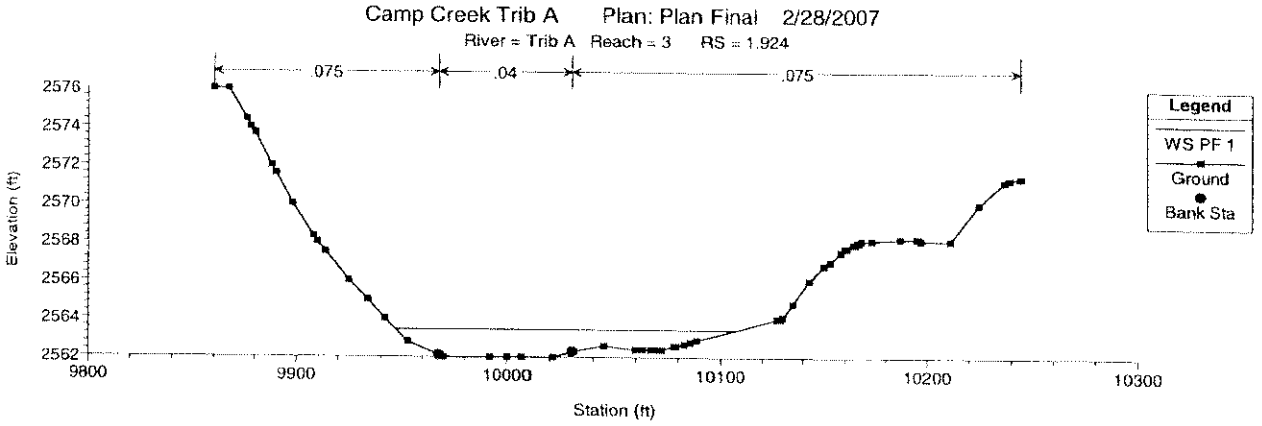
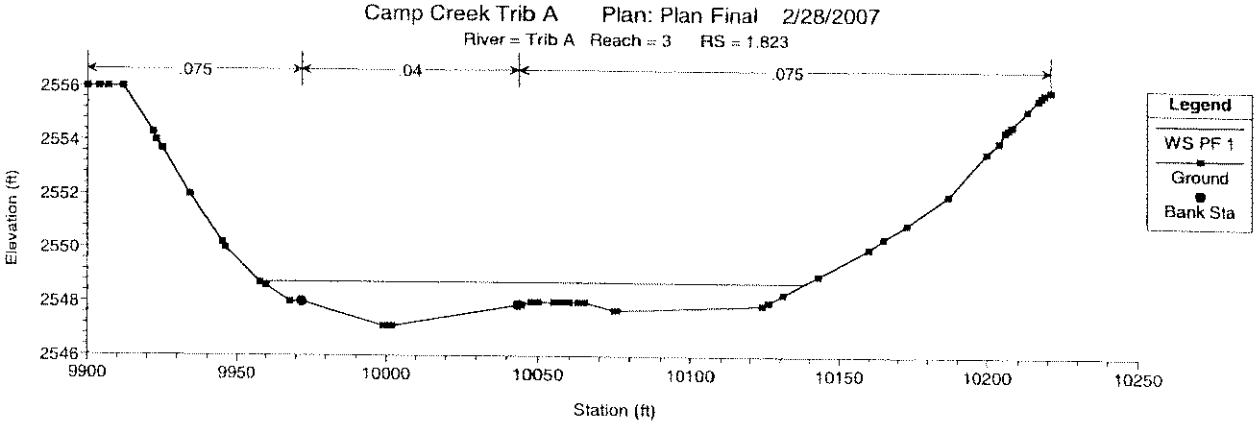
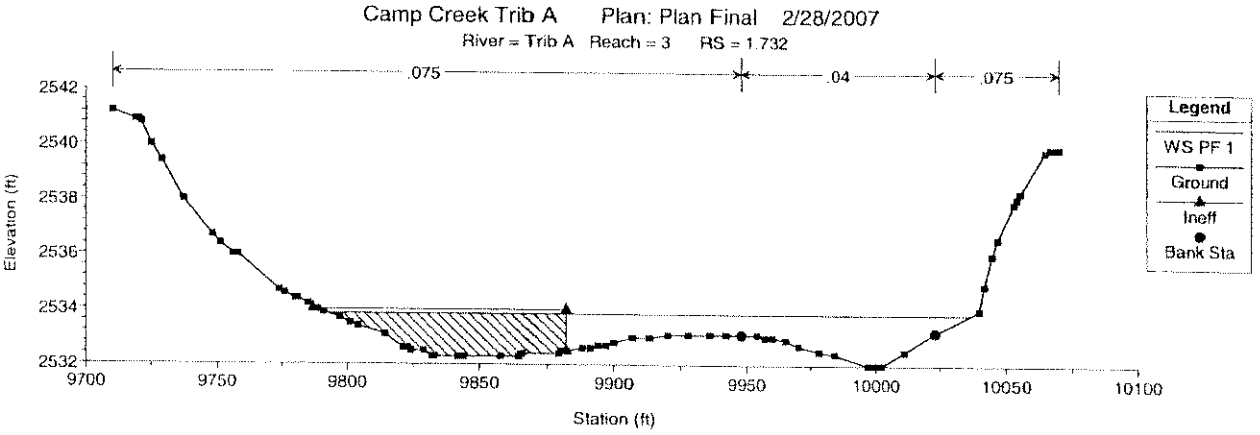
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

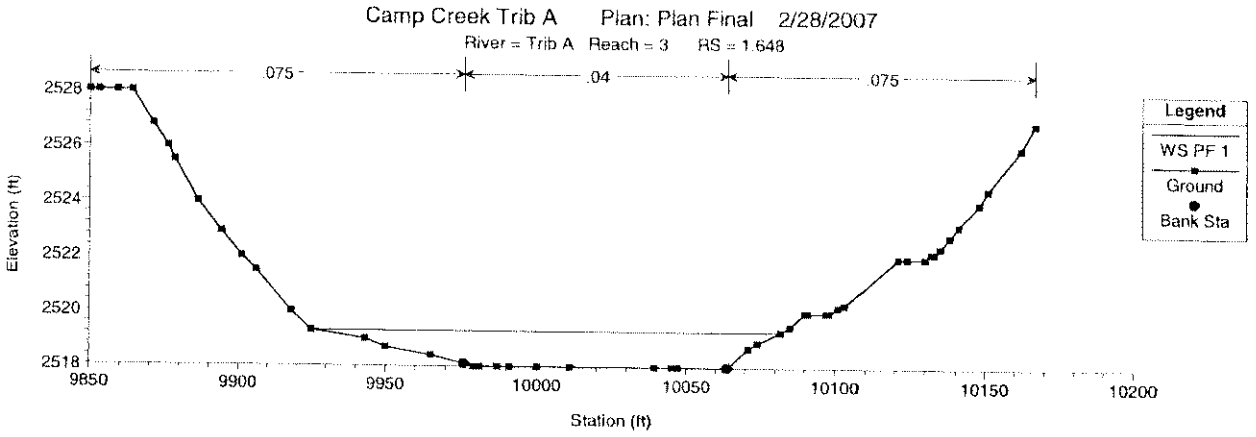

Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A Reach = 3 RS = 2.153
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

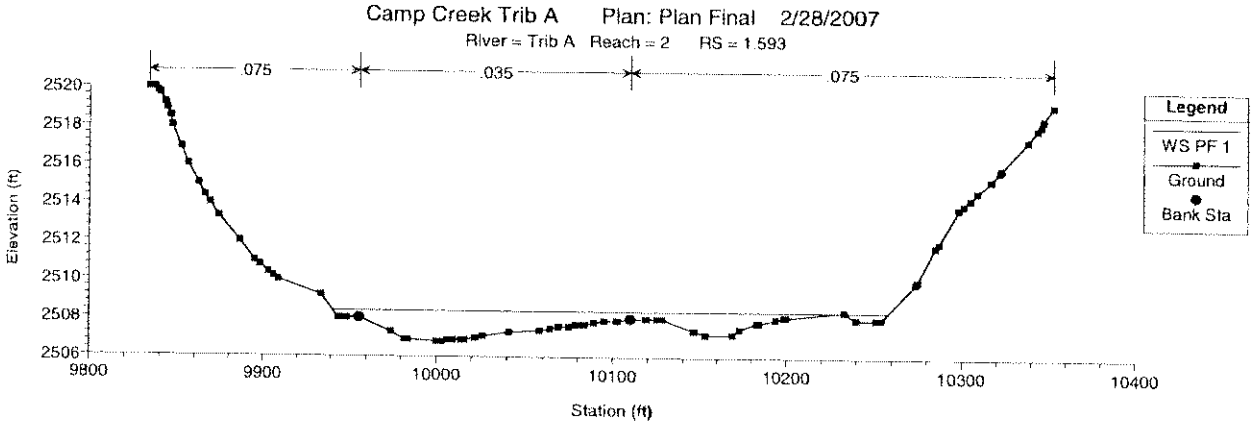

Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A Reach = 3 RS = 2.035
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

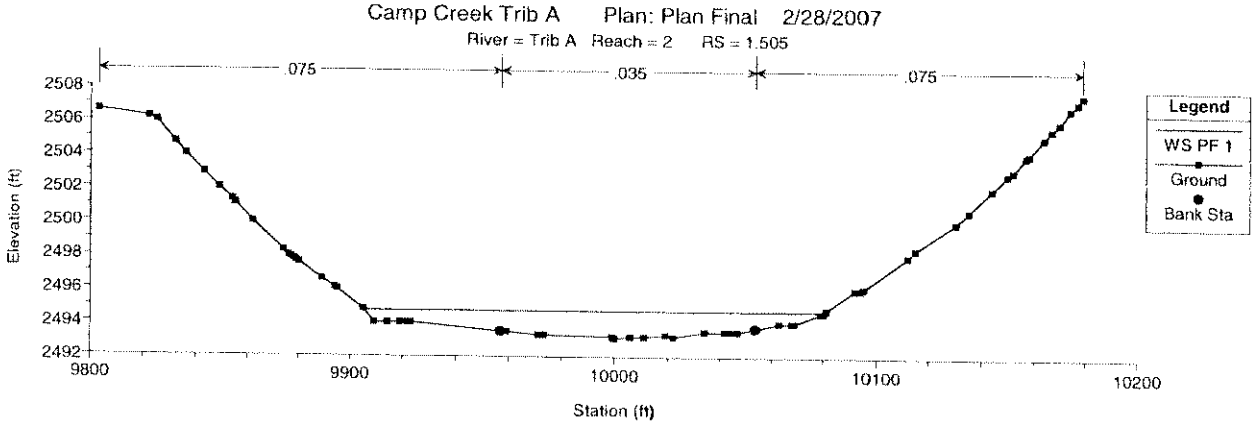

Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A Reach = 3 RS = 1.924
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

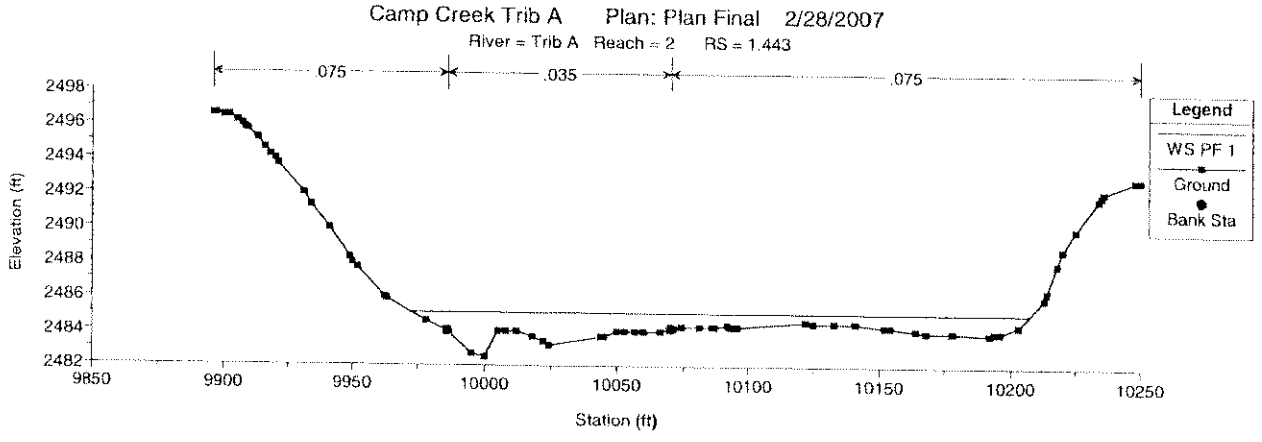

Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A Reach = 3 RS = 1.823
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

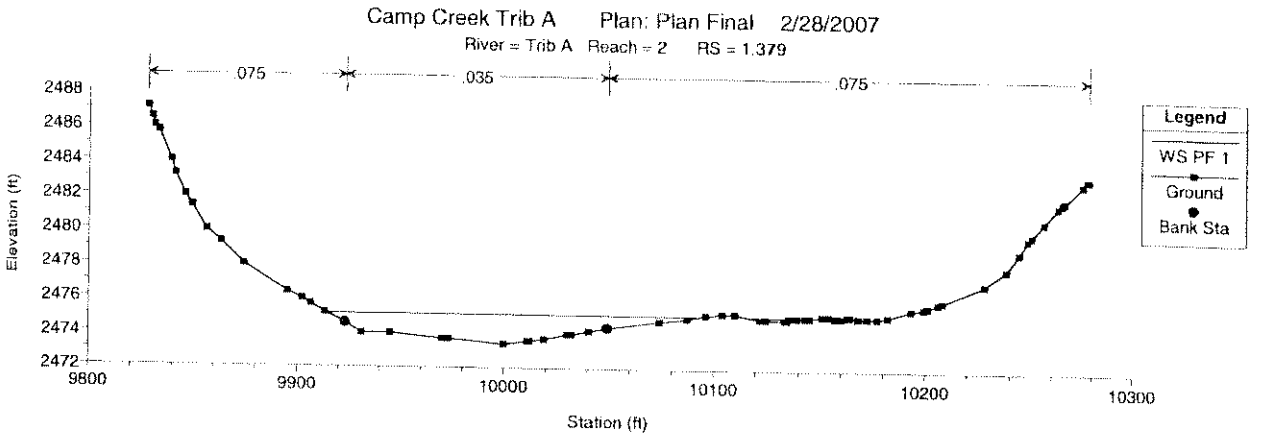

Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A Reach = 3 RS = 1.732
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Ineff
Bank Sta

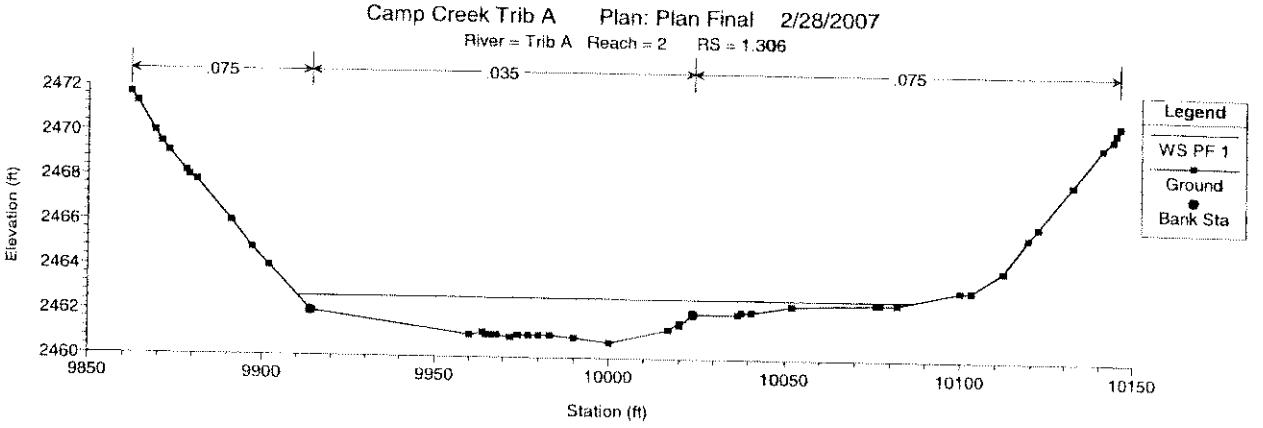

Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A Reach = 3 RS = 1.648
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

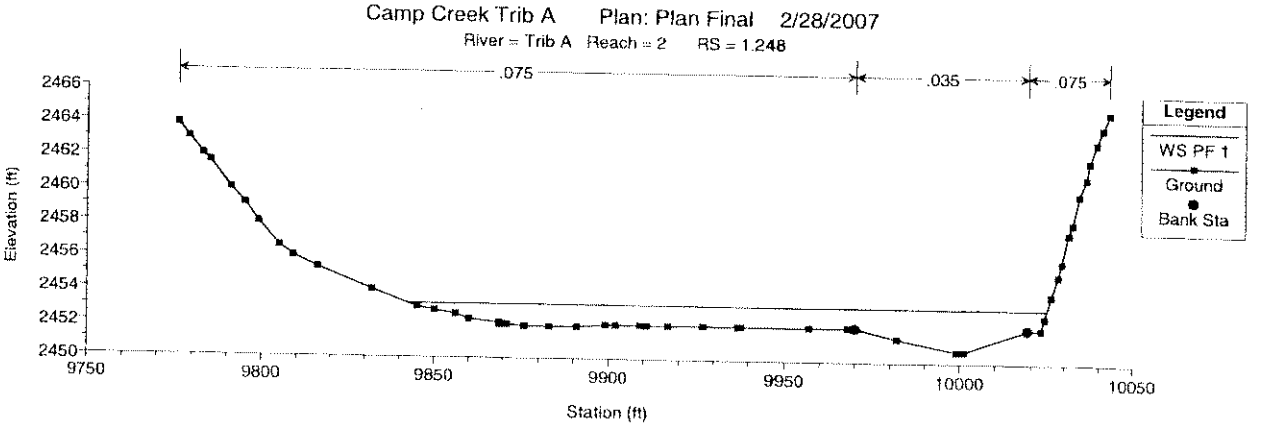

Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A Reach = 2 RS = 1.593
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

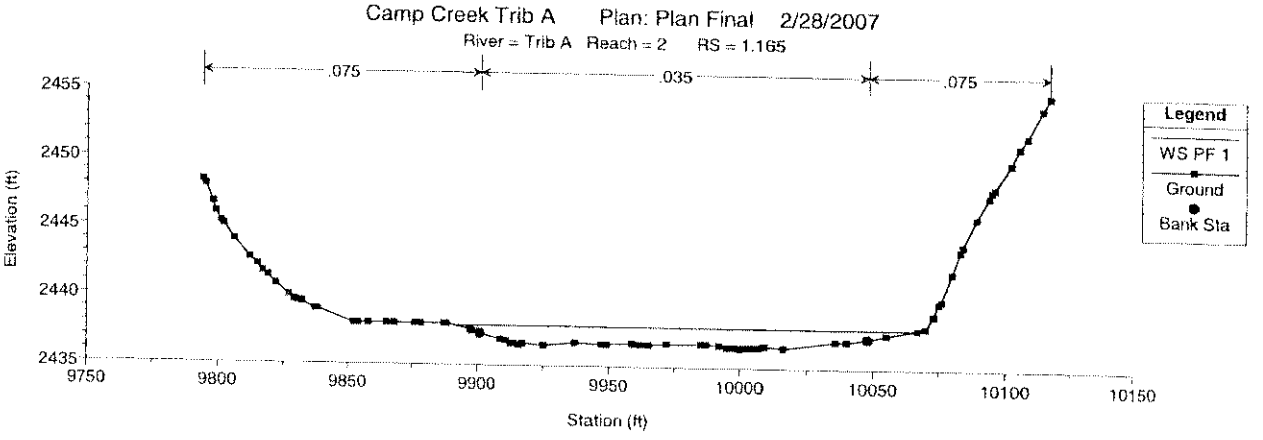

Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A Reach = 2 RS = 1.505
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

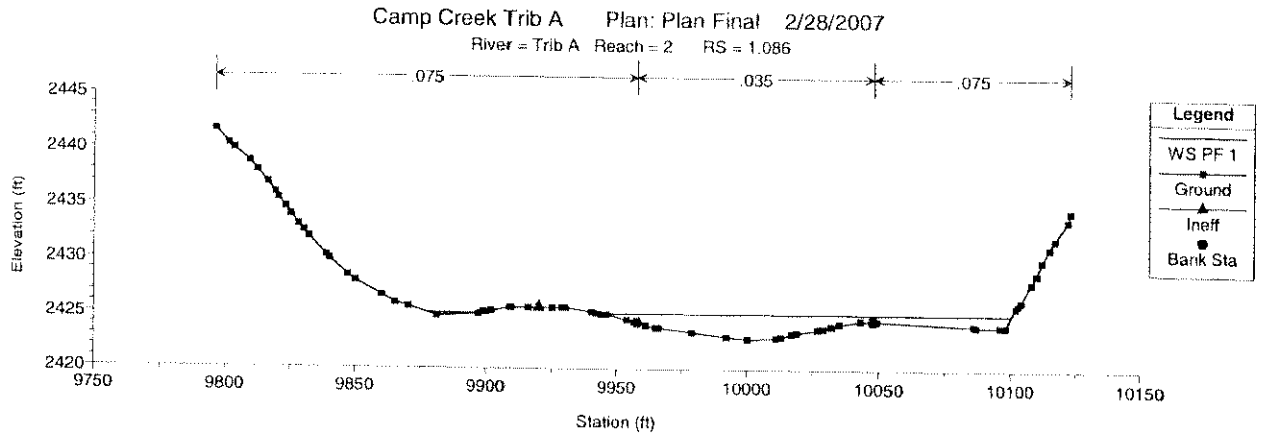

Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A Reach = 2 RS = 1.443
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

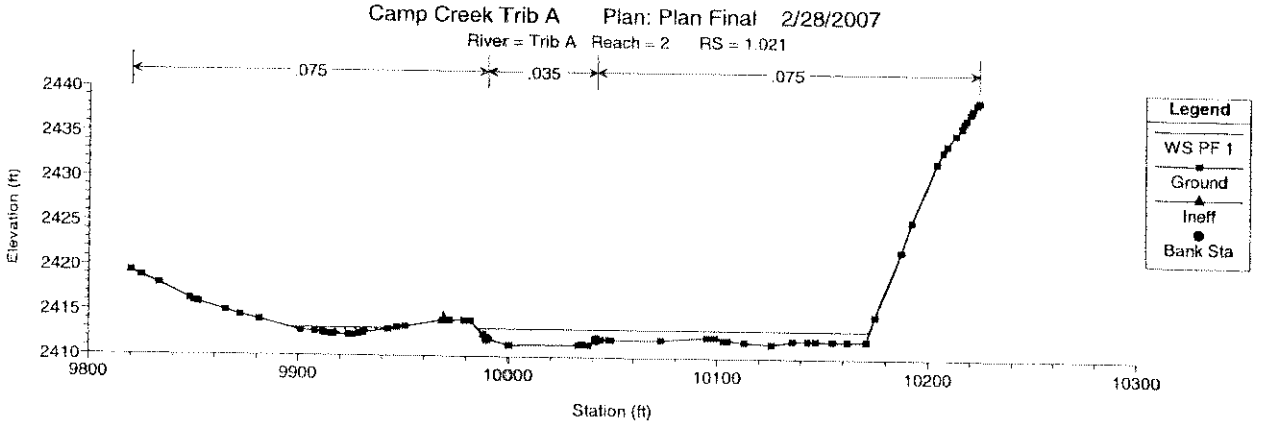

Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A Reach = 2 RS = 1.379
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

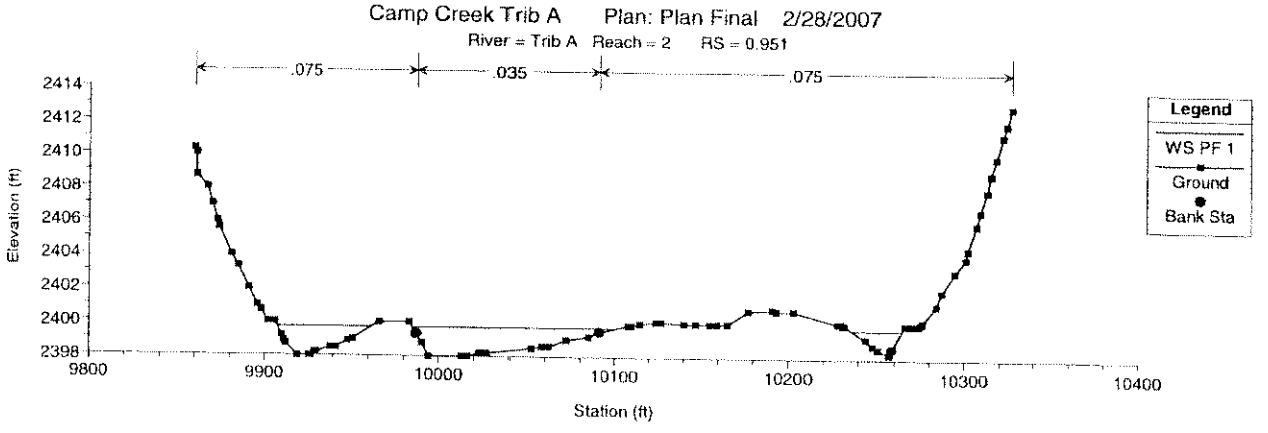

Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A Reach = 2 RS = 1.306
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A Reach = 2 RS = 1.248
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A Reach = 2 RS = 1.165
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A Reach = 2 RS = 1.086
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Ineff
Bank Sta


Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A Reach = 2 RS = 1.021
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Ineff
Bank Sta


Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A Reach = 2 RS = 0.951
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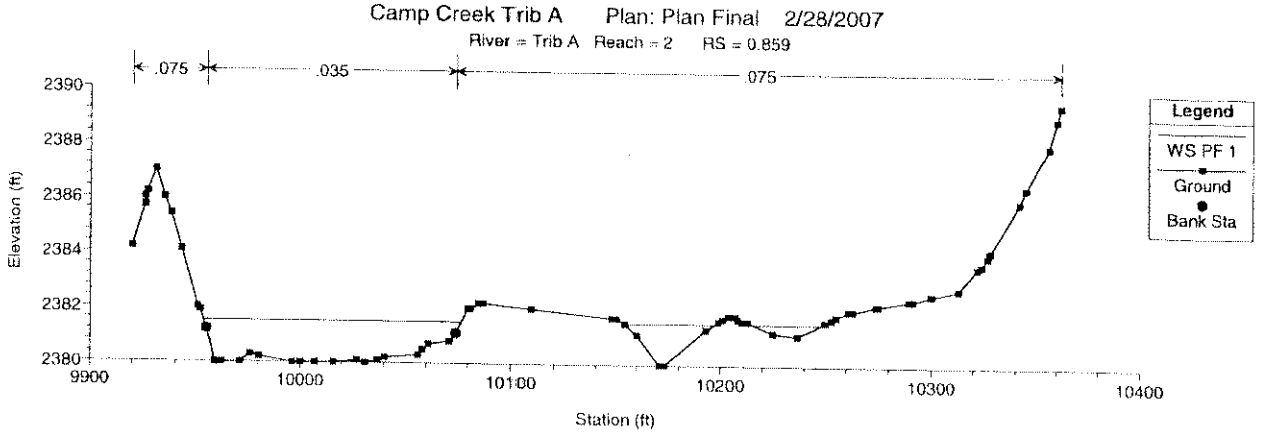
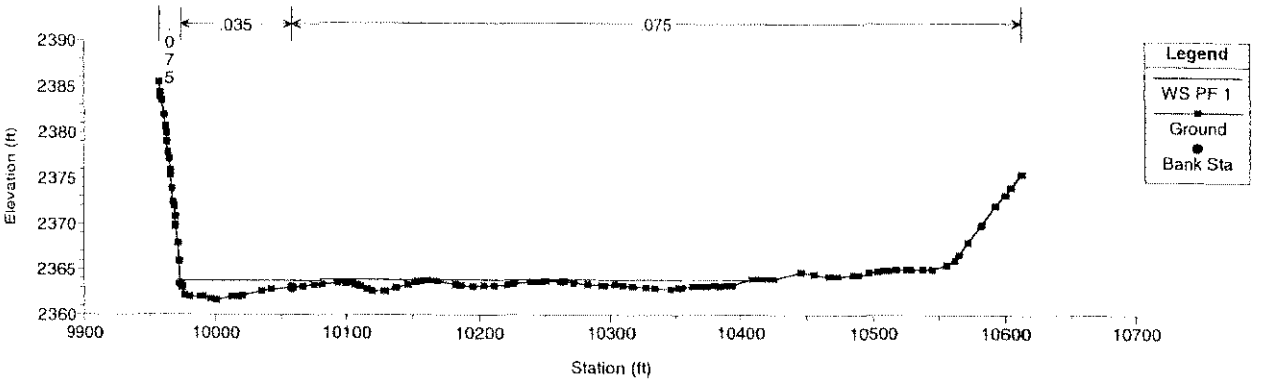
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A Reach = 2 RS = 0.859
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

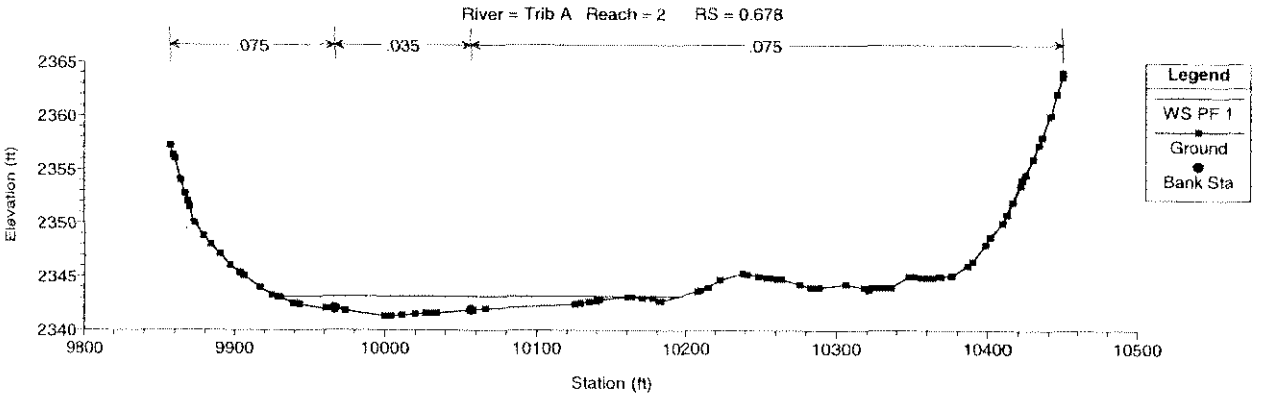
Camp Creek Trib A Plan: Plan Final 2/28/2007

River = Trib A Reach = 2 RS = 0.778



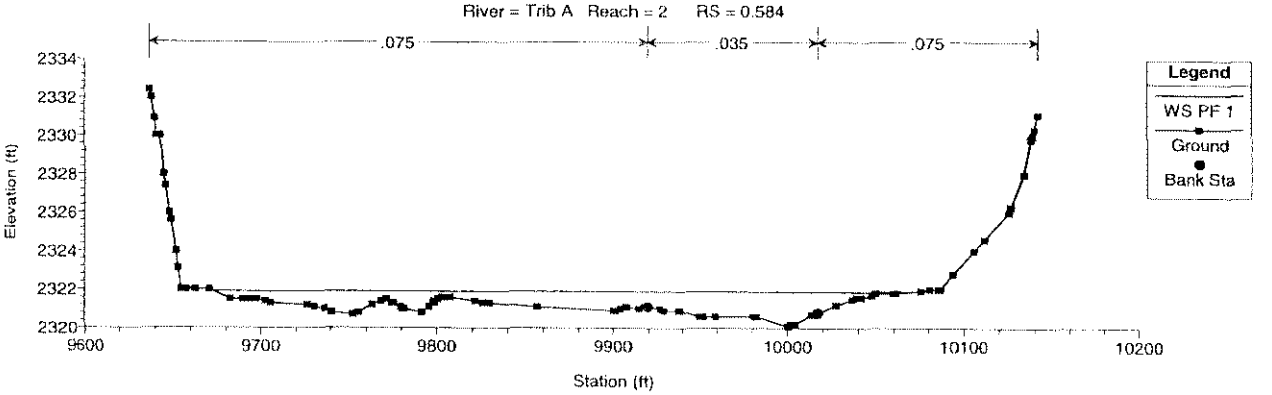
Camp Creek Trib A Plan: Plan Final 2/28/2007

River = Trib A Reach = 2 RS = 0.678



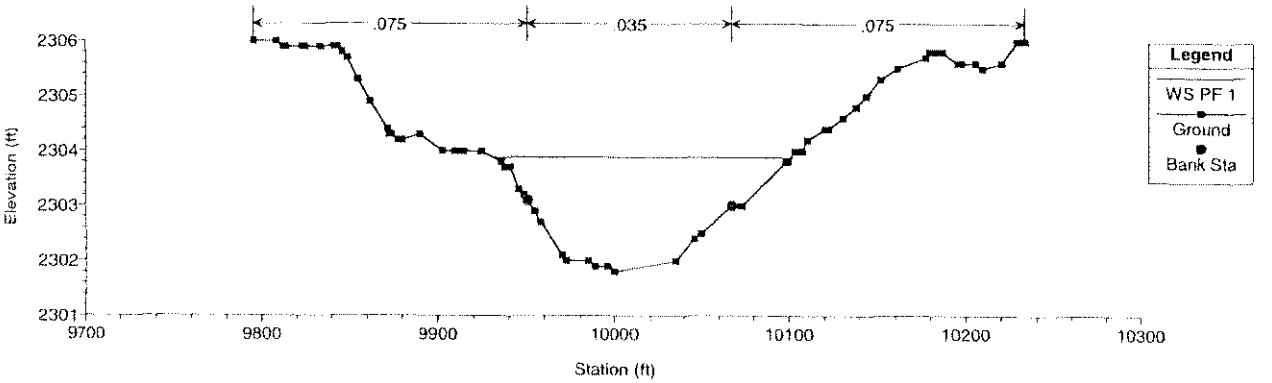
Camp Creek Trib A Plan: Plan Final 2/28/2007

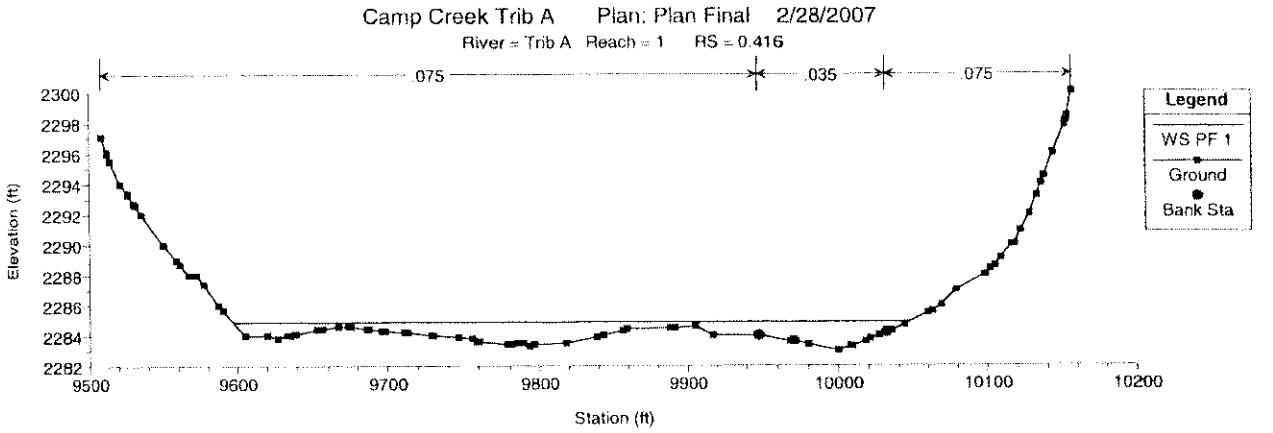
River = Trib A Reach = 2 RS = 0.584

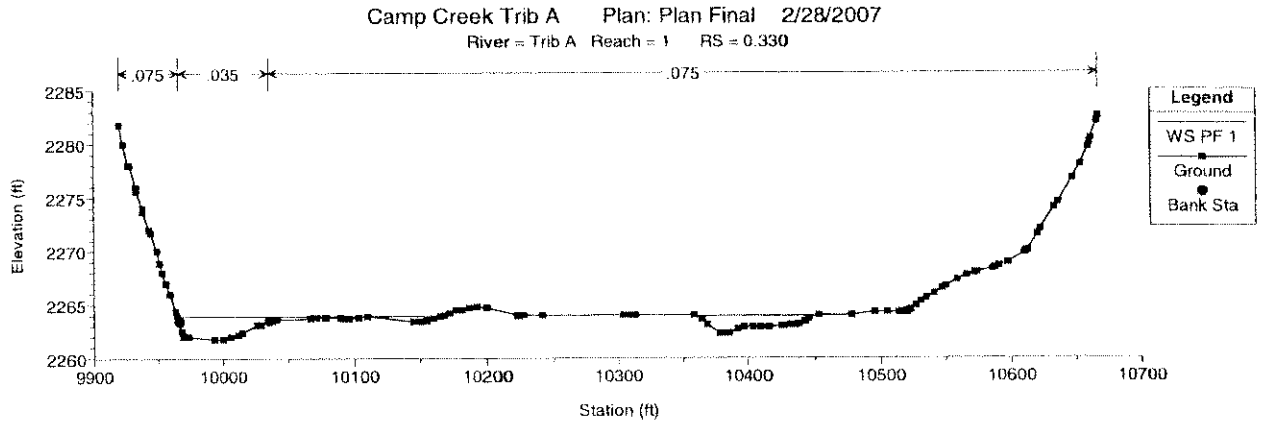


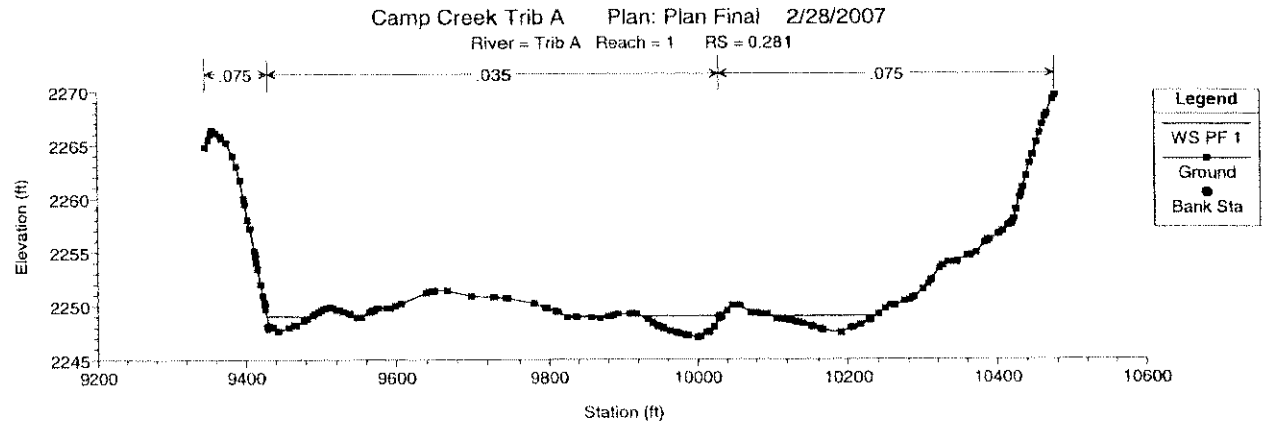
Camp Creek Trib A Plan: Plan Final 2/28/2007

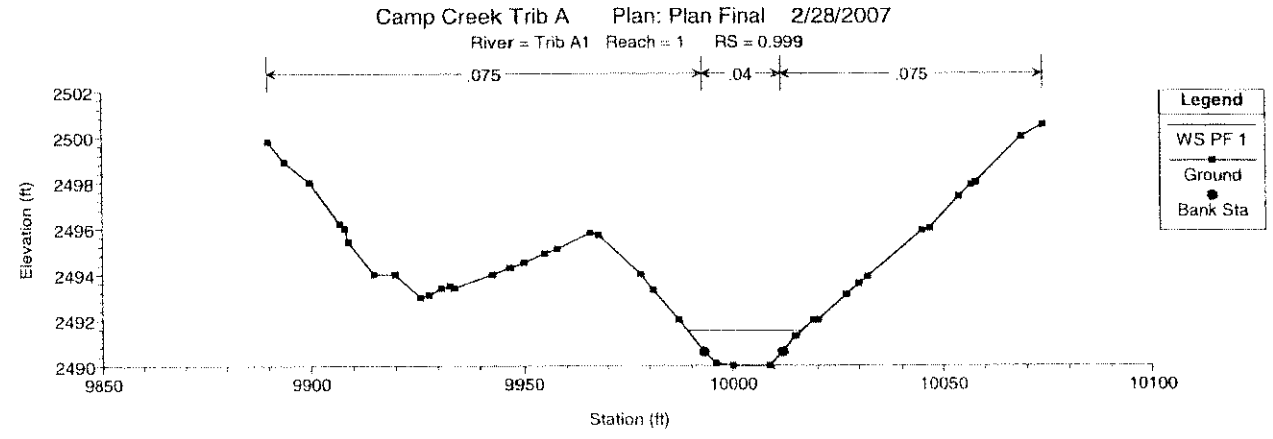
River = Trib A Reach = 1 RS = 0.499

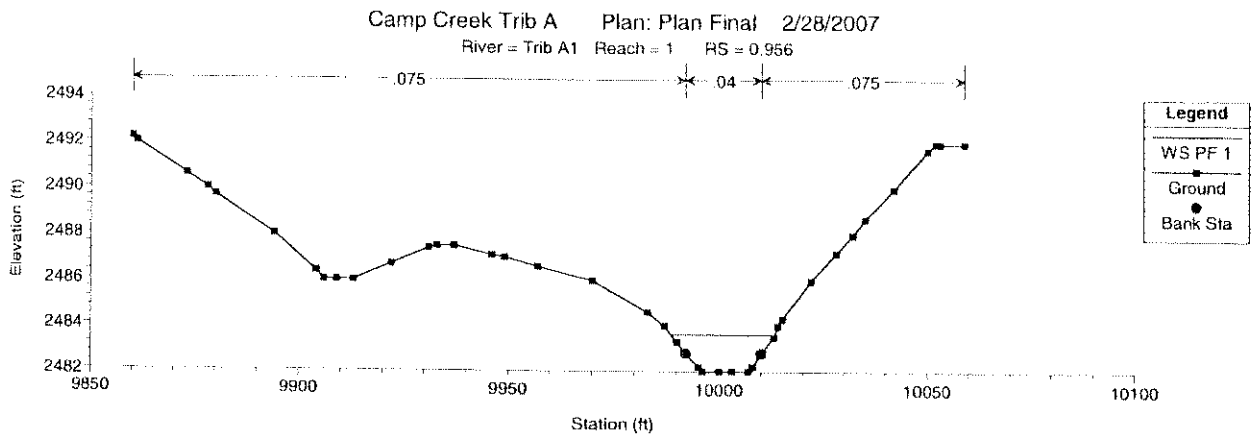



Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A Reach = 1 RS = 0.416
.075
.035
.075
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)


Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A Reach = 1 RS = 0.330
.075
.035
.075
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)


Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A Reach = 1 RS = 0.281
.075
.035
.075
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)


Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A1 Reach = 1 RS = 0.999
.075
.04
.075
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)


Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A1 Reach = 1 RS = 0.956
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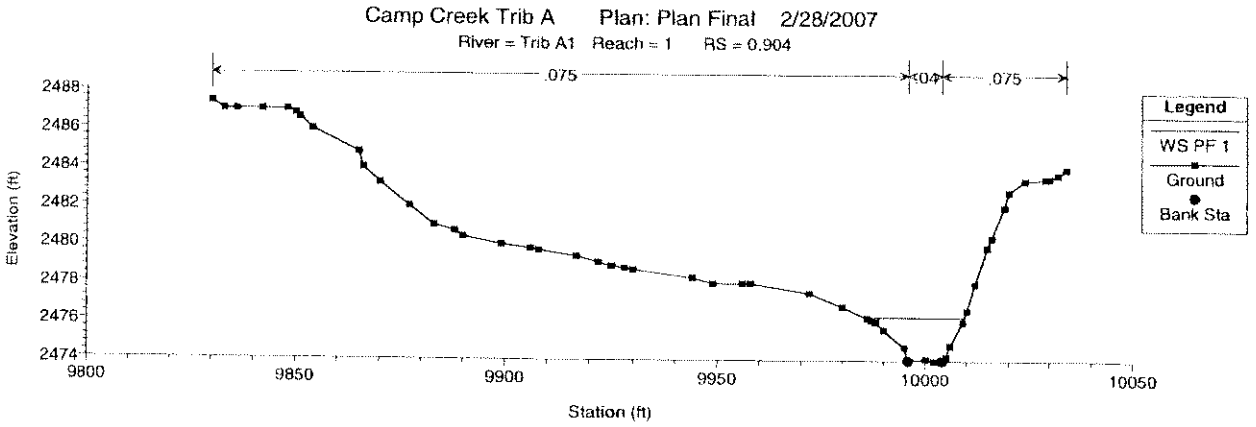
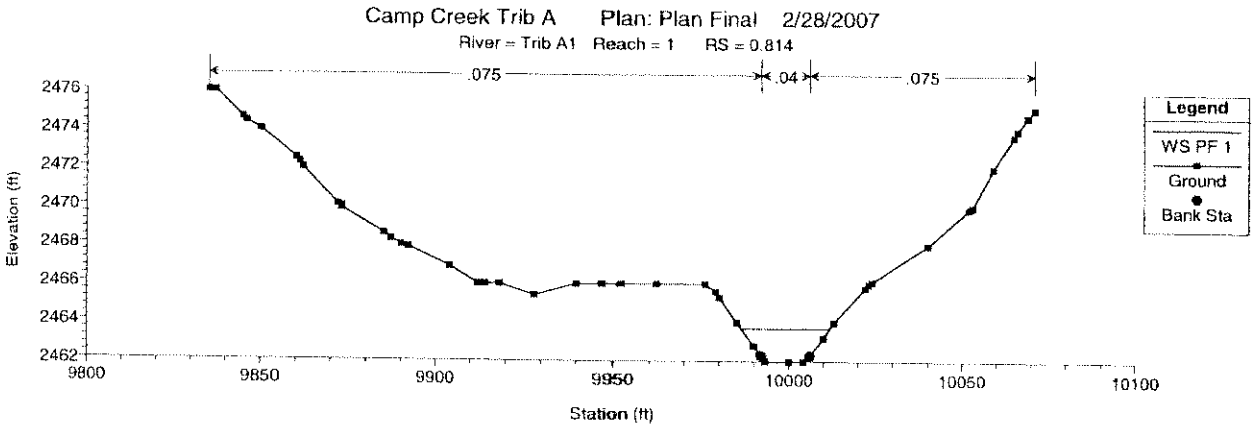
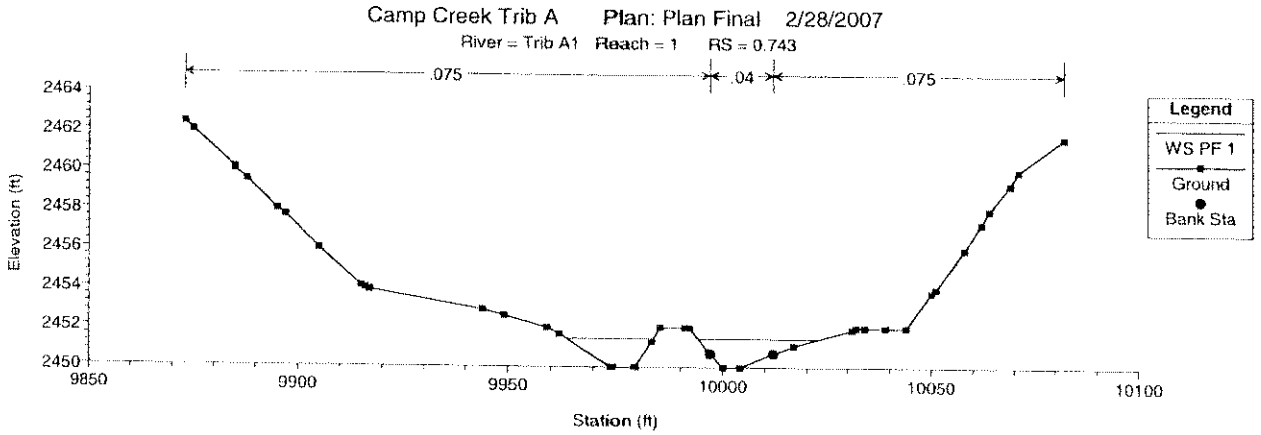
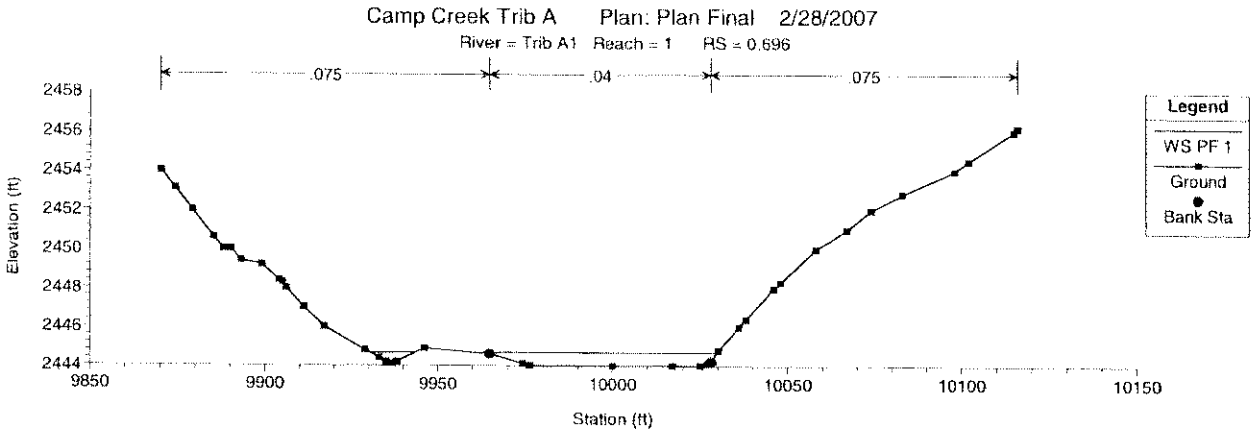
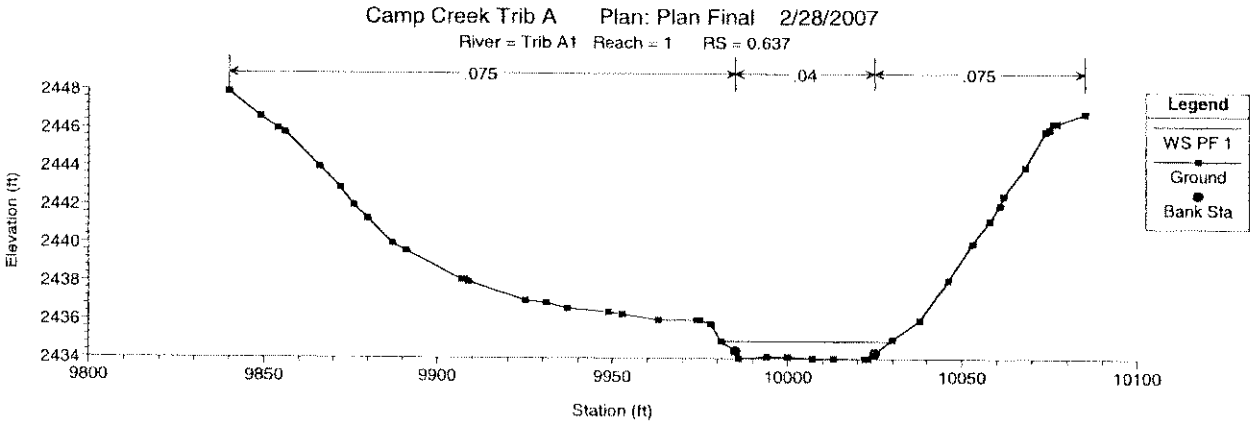
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

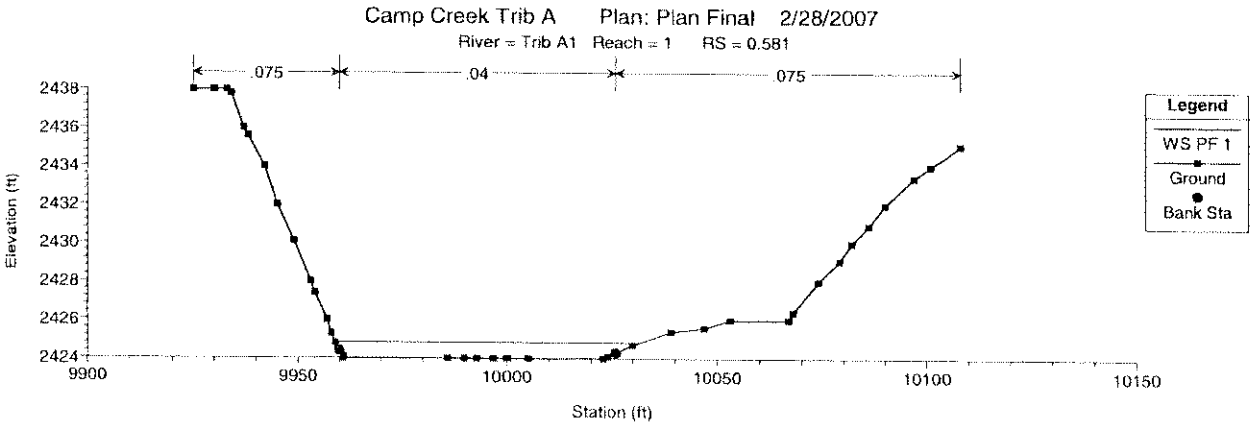

Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A1 Reach = 1 RS = 0.904
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

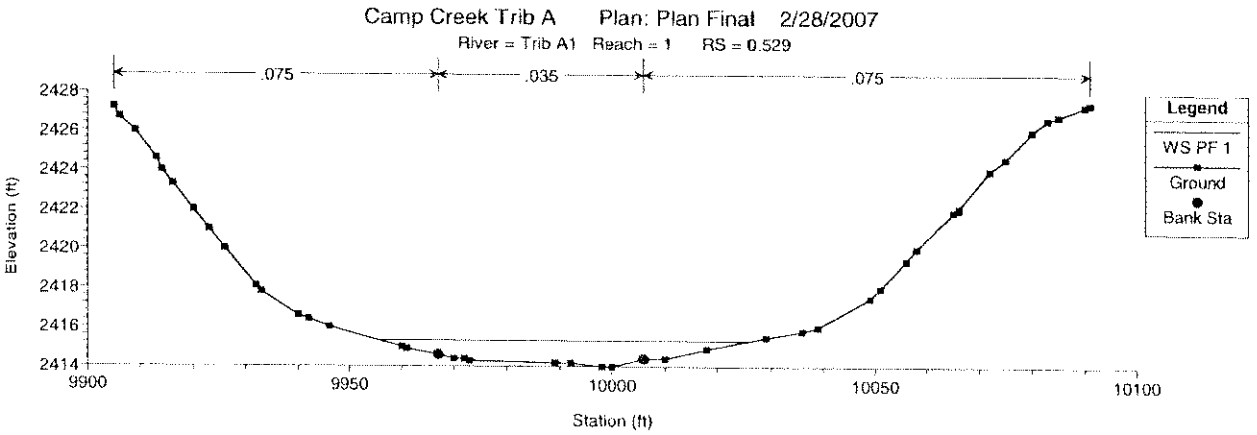

Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A1 Reach = 1 RS = 0.814
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

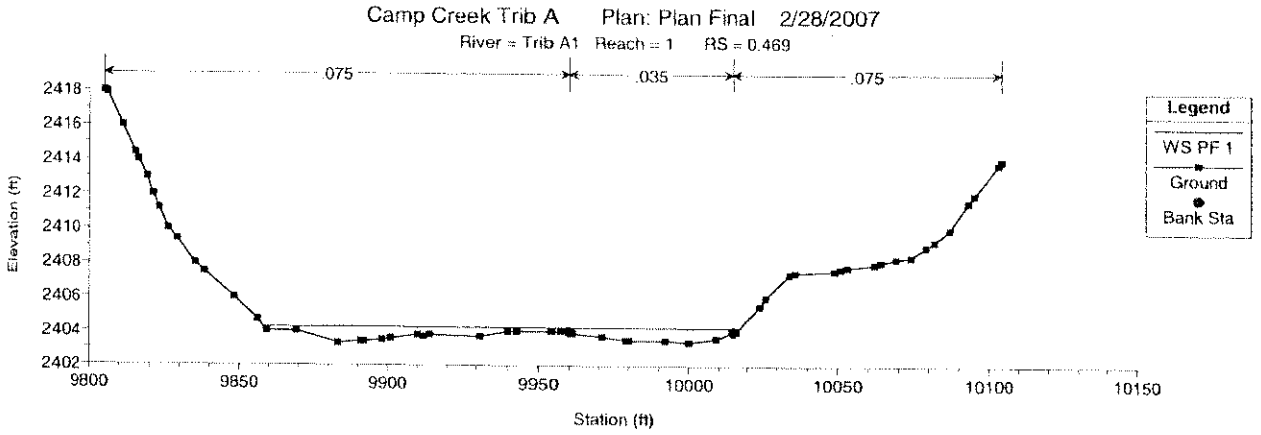

Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A1 Reach = 1 RS = 0.743
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

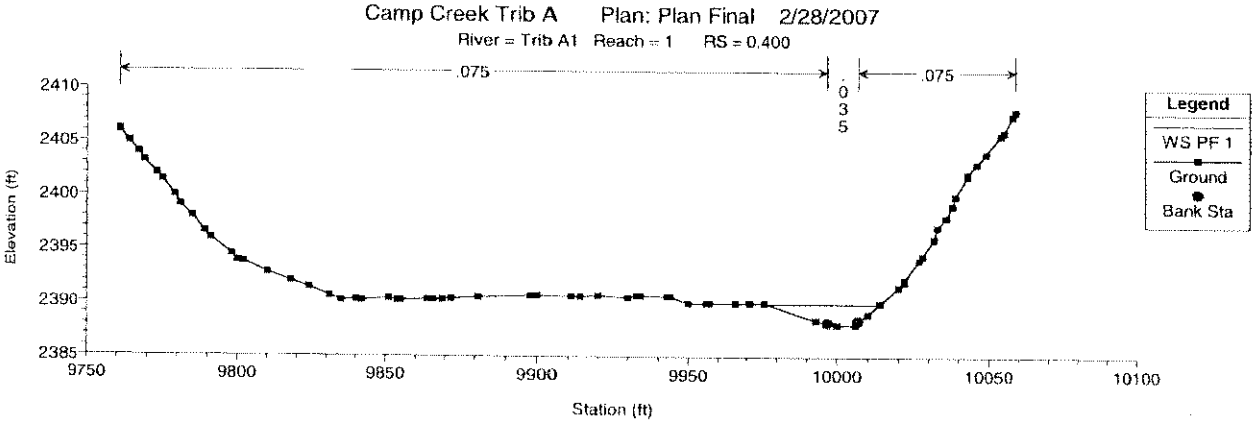

Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A1 Reach = 1 RS = 0.696
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A1 Reach = 1 RS = 0.637
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A1 Reach = 1 RS = 0.581
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A1 Reach = 1 RS = 0.529
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A1 Reach = 1 RS = 0.469
.075
.035
.075
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)


Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A1 Reach = 1 RS = 0.400
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.035
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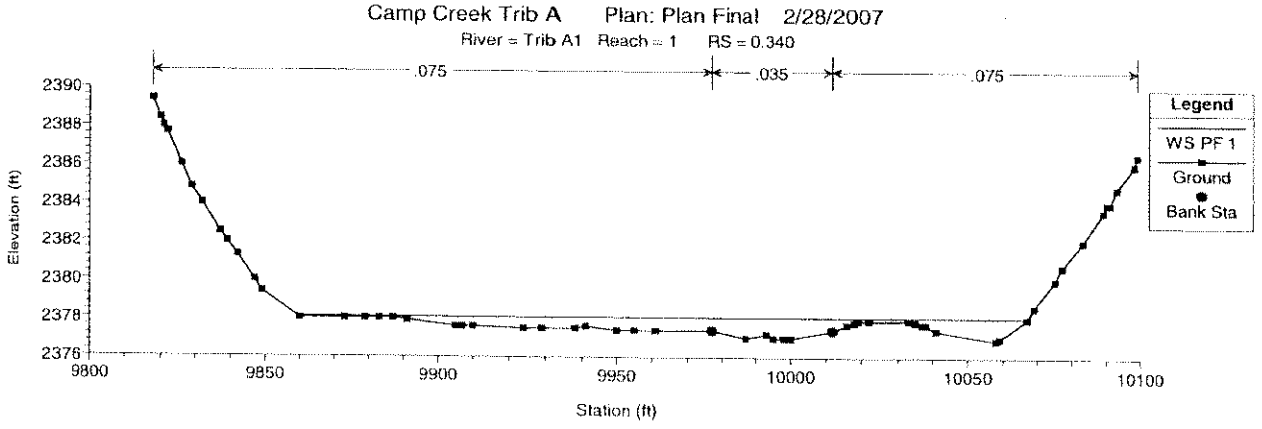
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)


Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A1 Reach = 1 RS = 0.340
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.035
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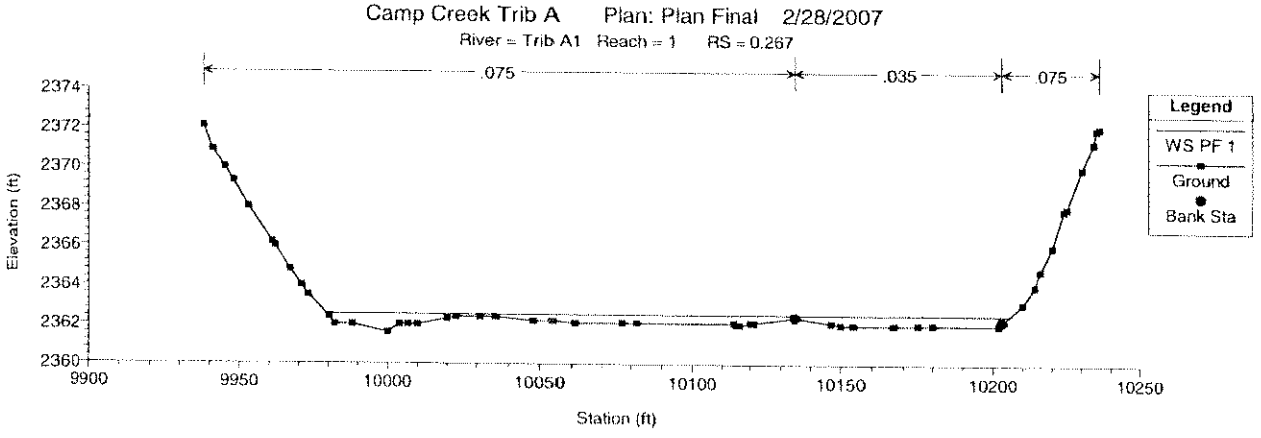
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)


Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A1 Reach = 1 RS = 0.267
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.035
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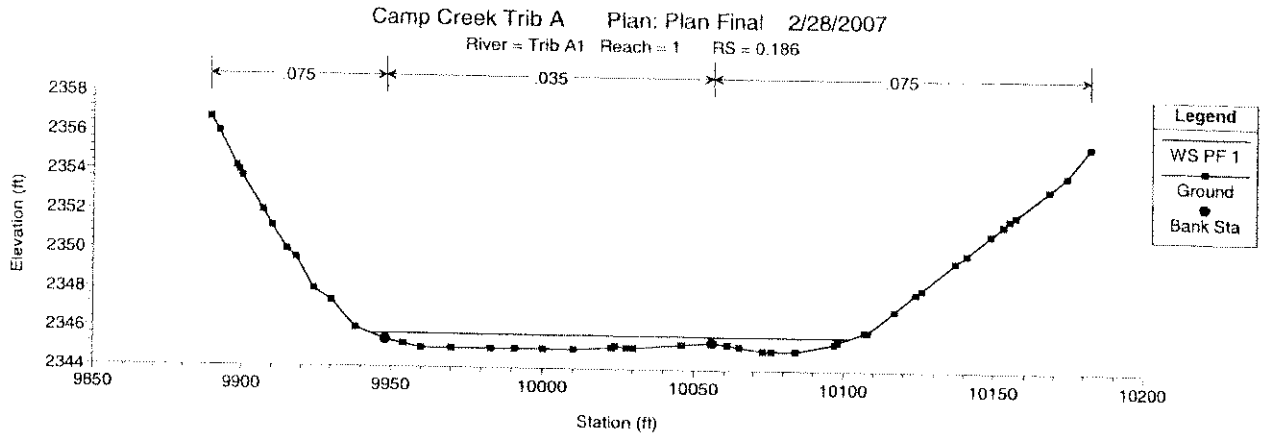
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)


Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A1 Reach = 1 RS = 0.186
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.035
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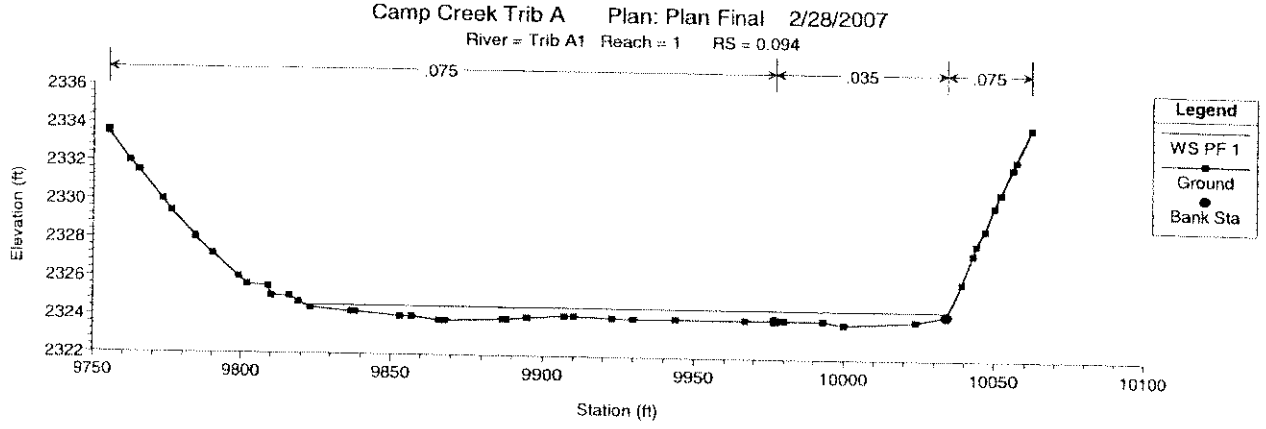
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A1 Reach = 1 RS = 0.094
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.035
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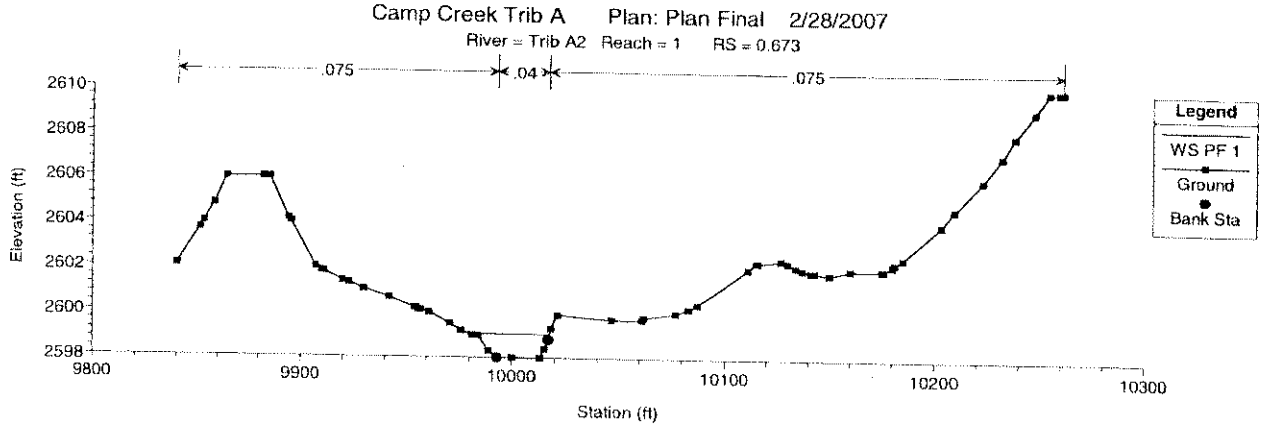
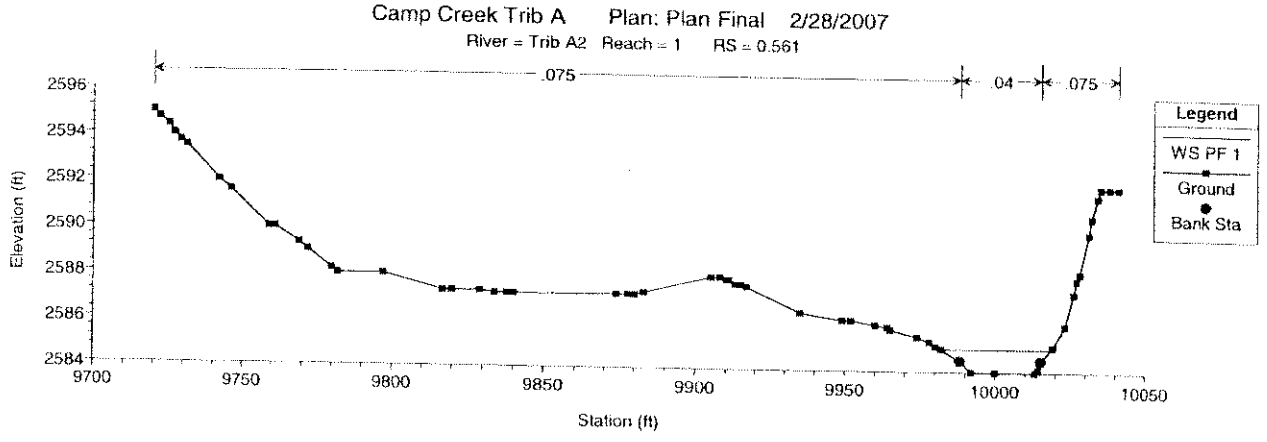
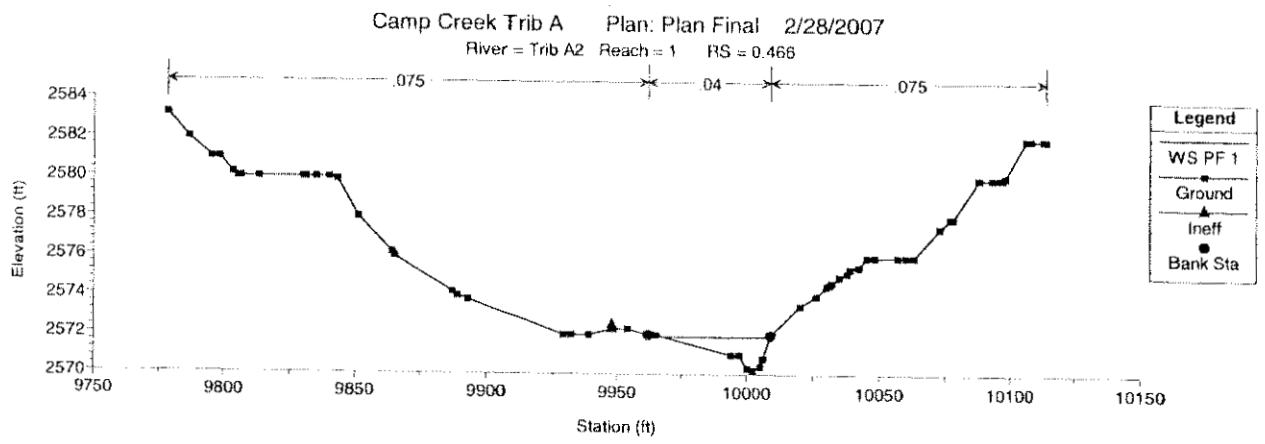
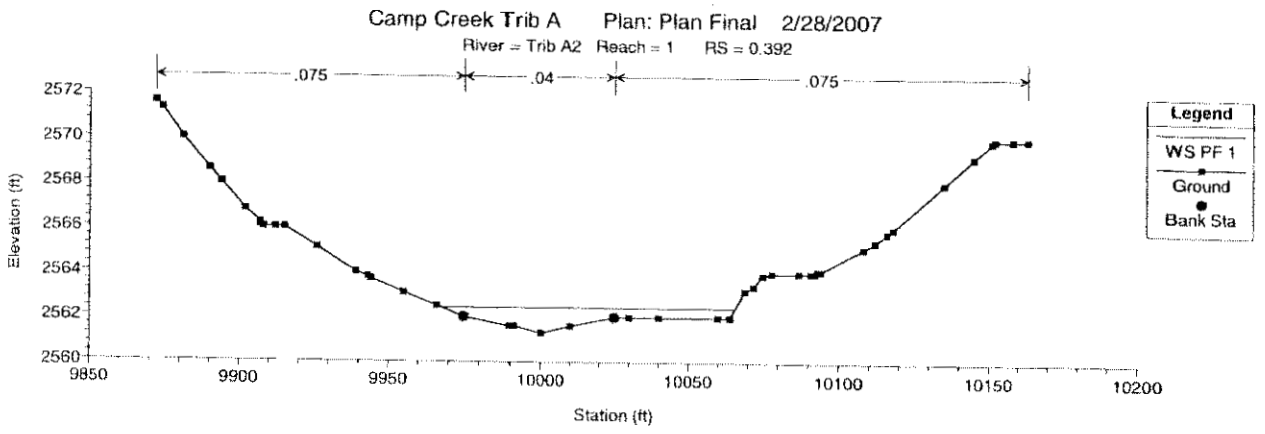
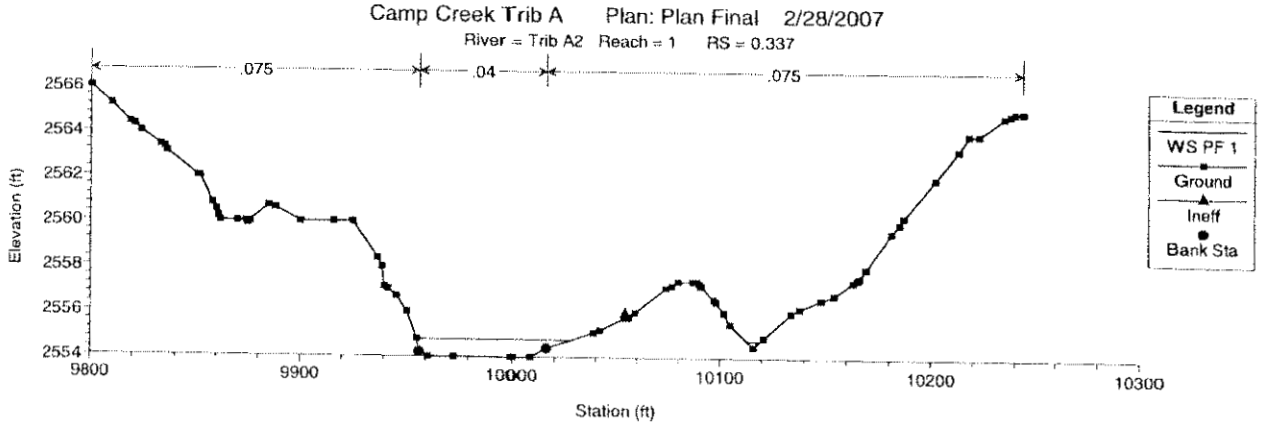
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

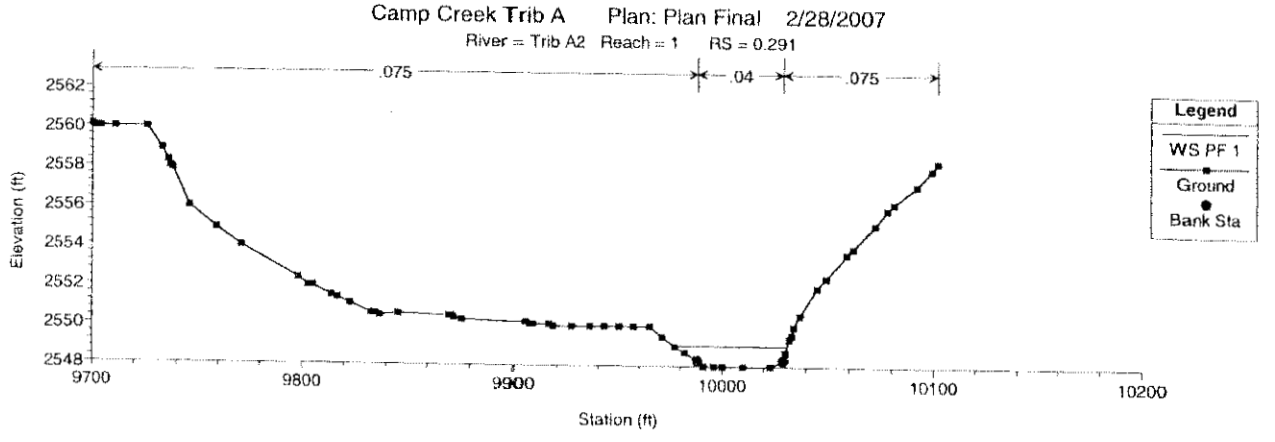

Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A2 Reach = 1 RS = 0.673
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

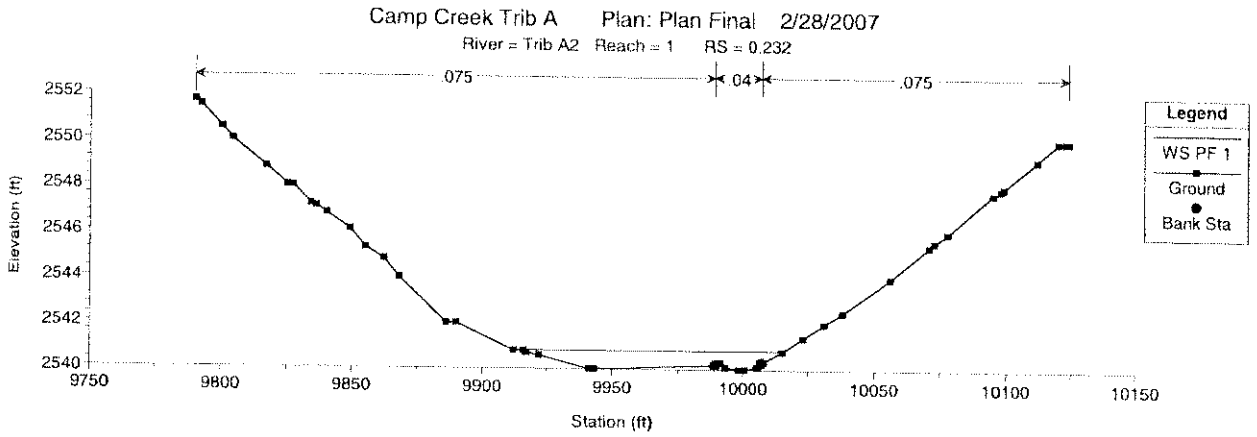

Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A2 Reach = 1 RS = 0.561
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

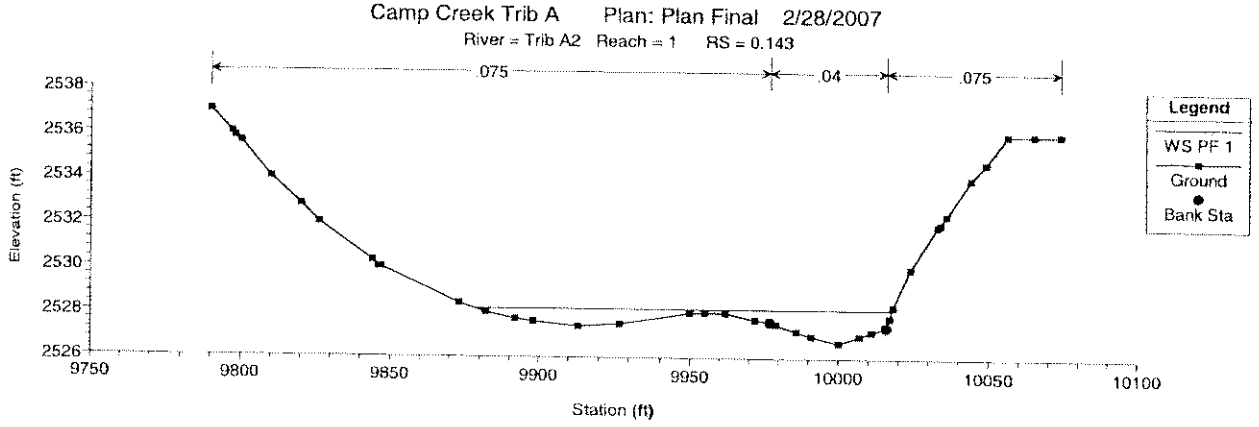

Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A2 Reach = 1 RS = 0.466
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Ineff
Bank Sta

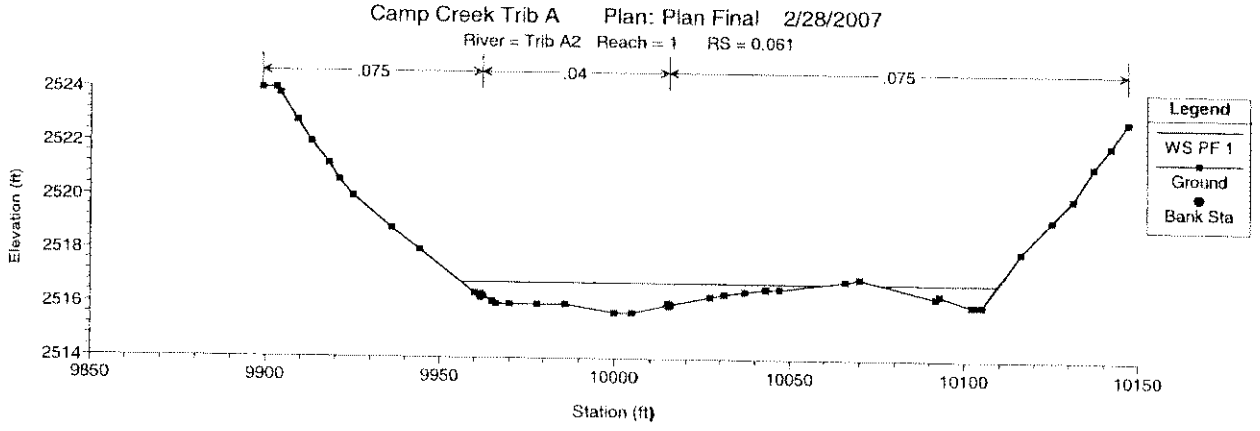

Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A2 Reach = 1 RS = 0.392
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A2 Reach = 1 RS = 0.337
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Ineff
Bank Sta


Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A2 Reach = 1 RS = 0.291
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A2 Reach = 1 RS = 0.232
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A2 Reach = 1 RS = 0.143
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib A Plan: Plan Final 2/28/2007
River = Trib A2 Reach = 1 RS = 0.061
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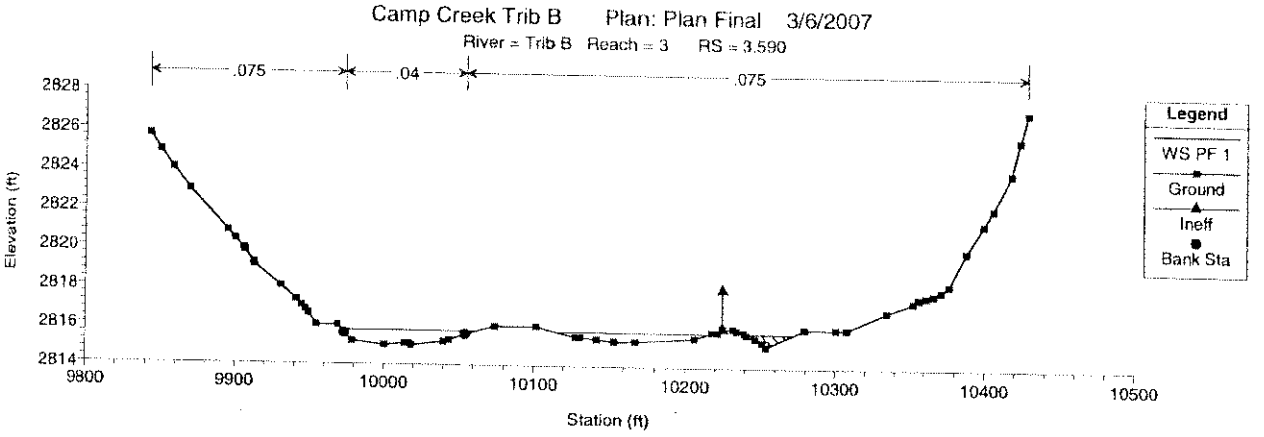
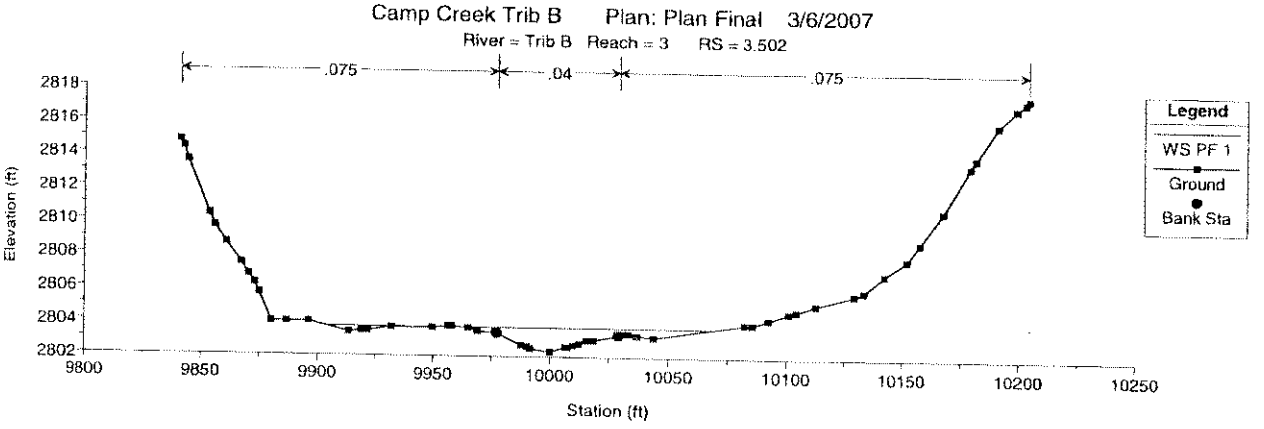
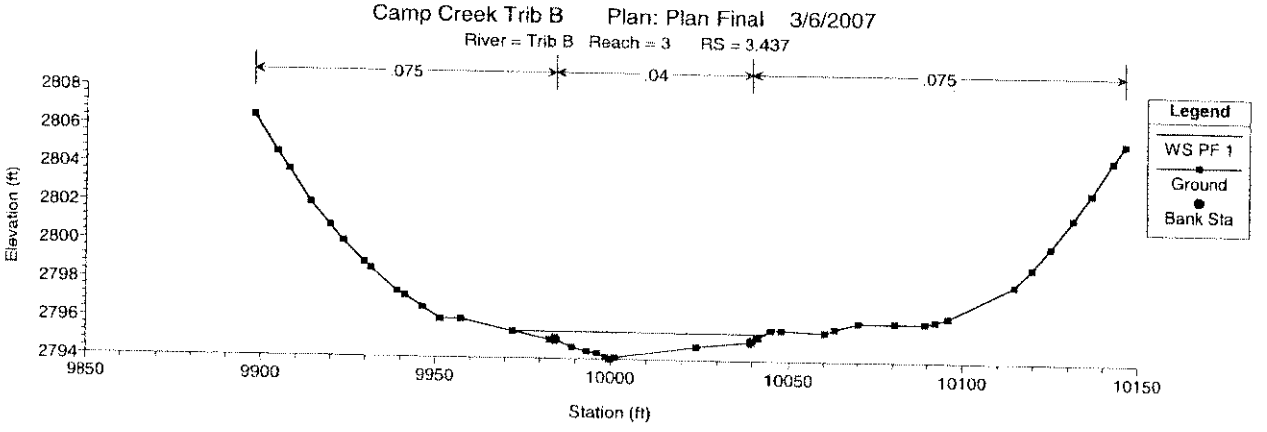
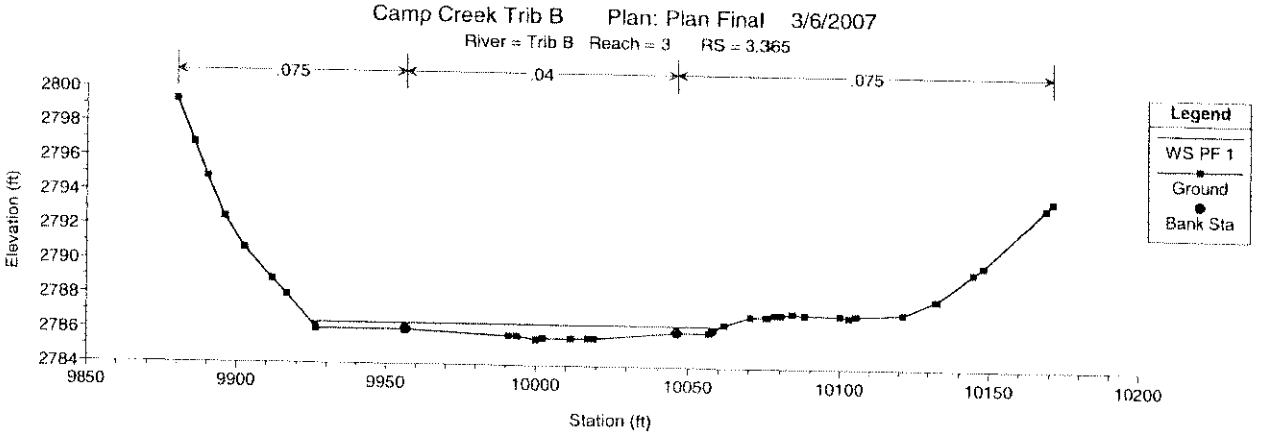
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 3 RS = 3.590
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Ineff
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 3 RS = 3.502
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 3 RS = 3.437
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 3 RS = 3.365
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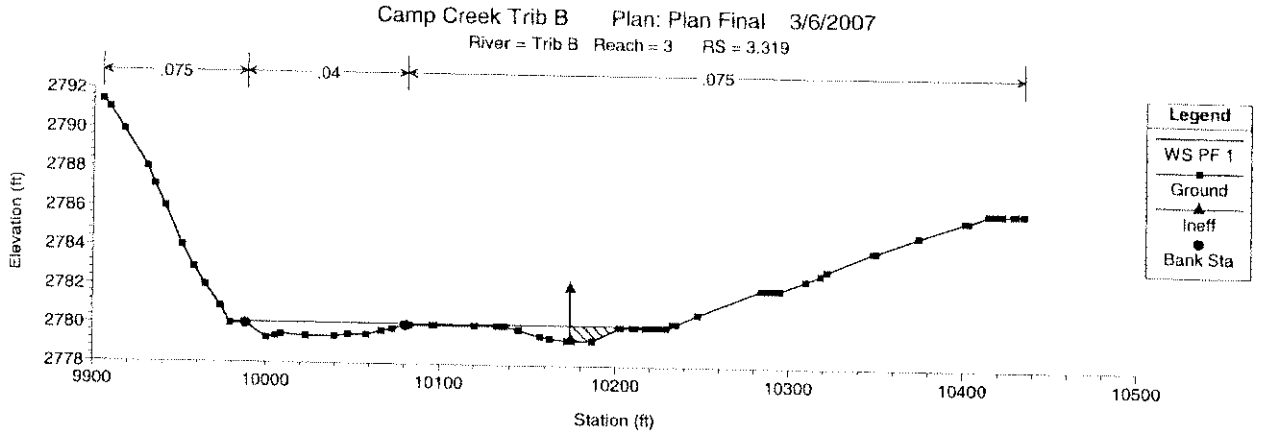
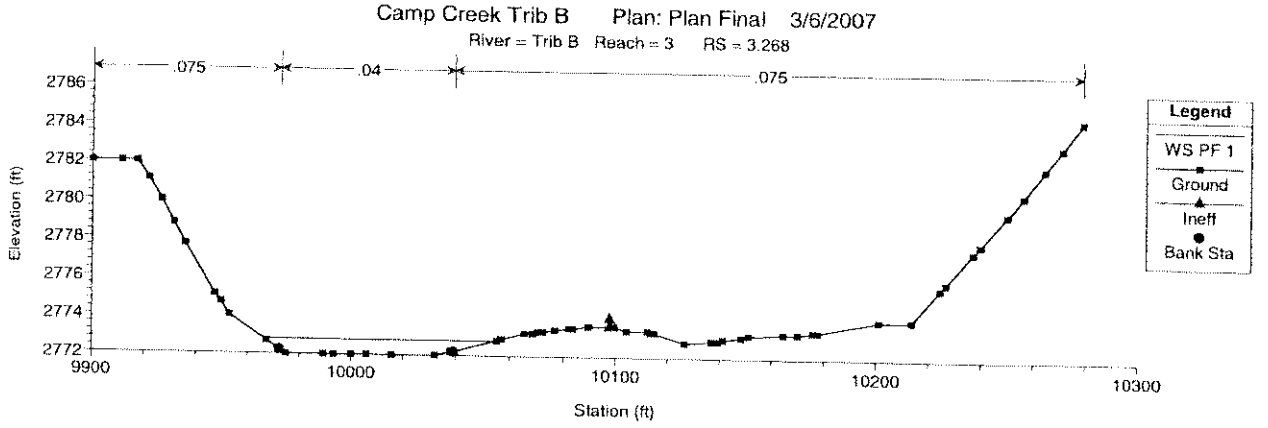
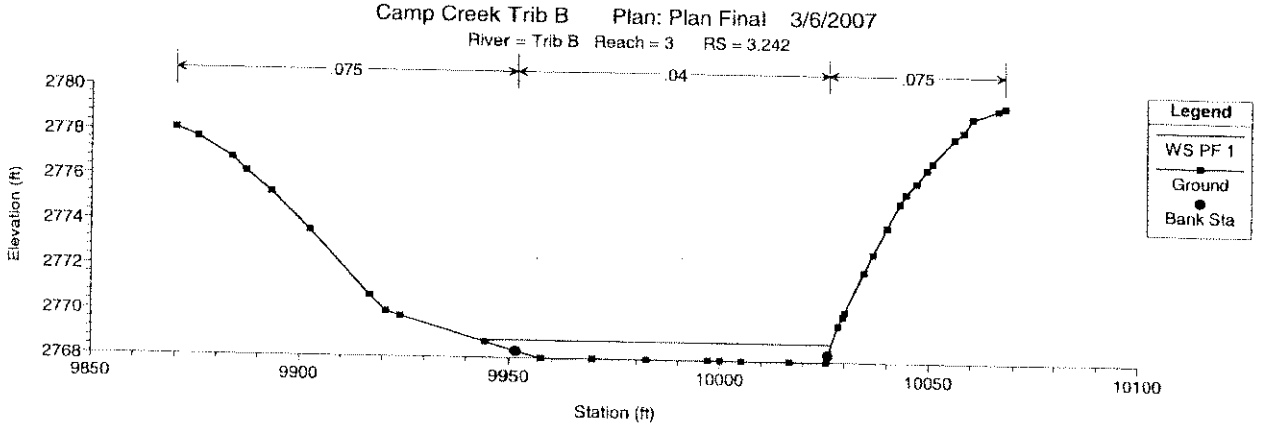
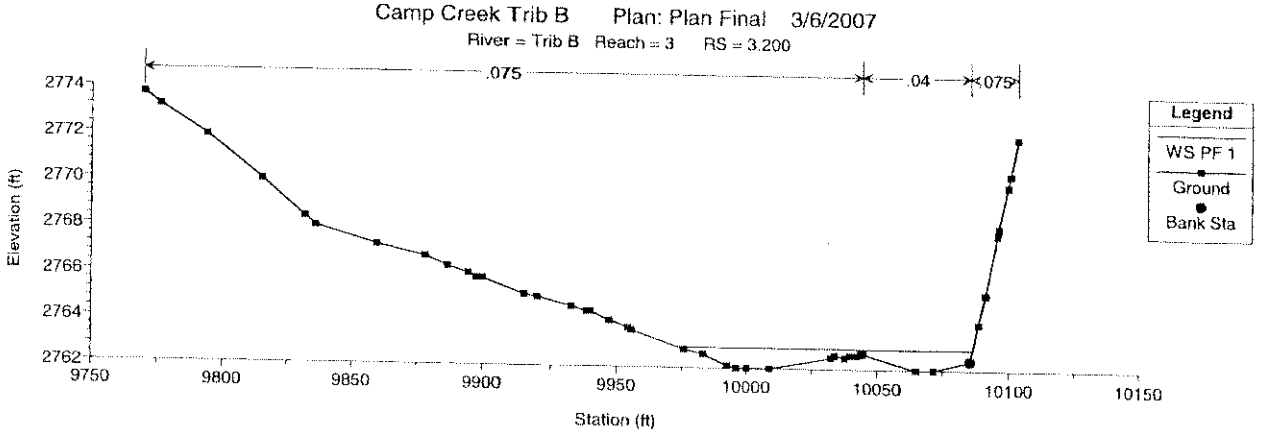
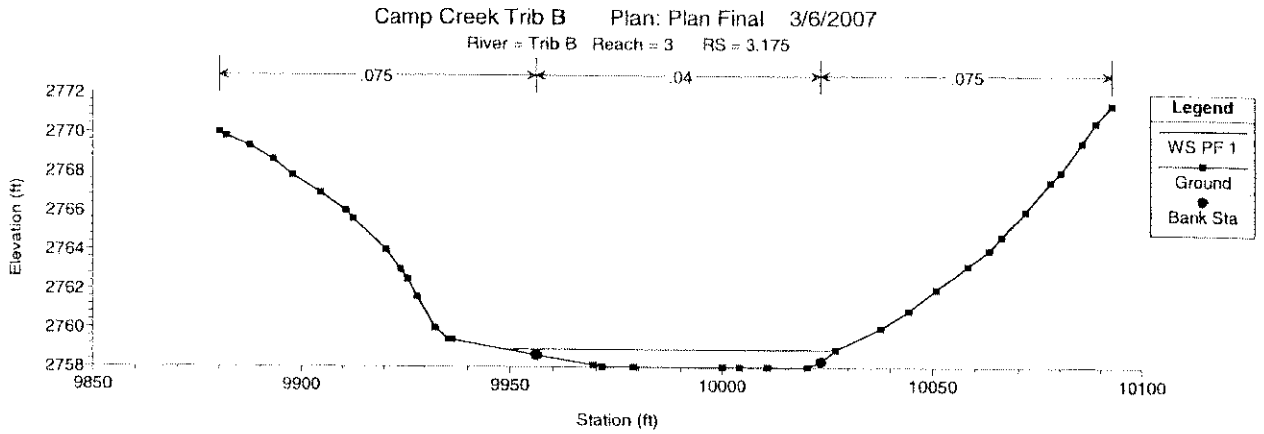
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 3 RS = 3.319
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Ineff
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 3 RS = 3.268
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Ineff
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 3 RS = 3.242
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 3 RS = 3.200
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 3 RS = 3.175
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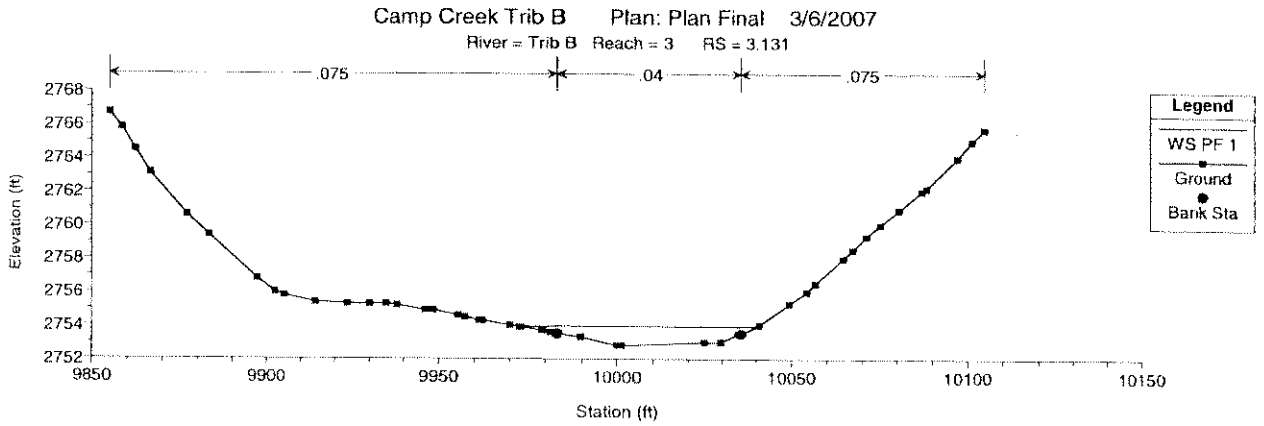
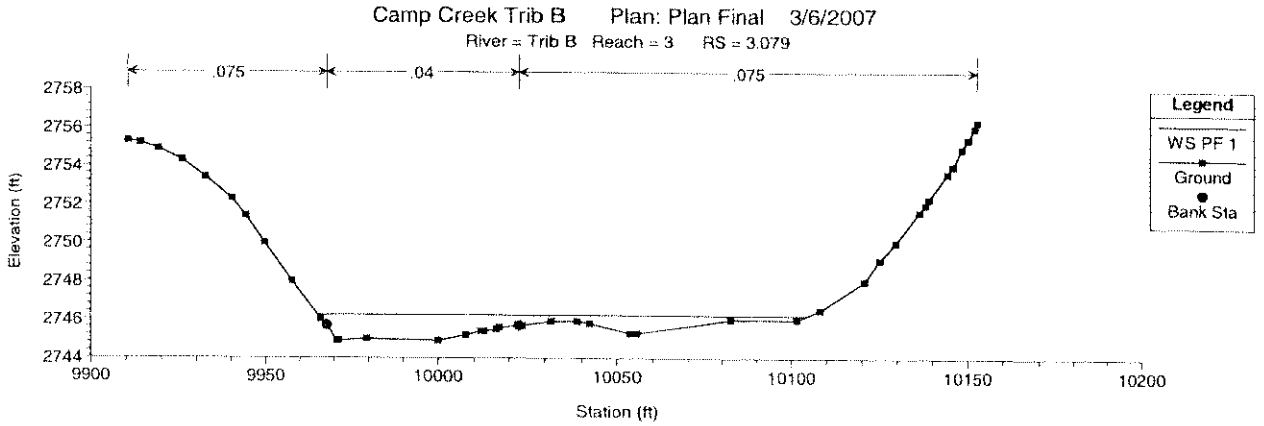
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 3 RS = 3.131
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 3 RS = 3.079
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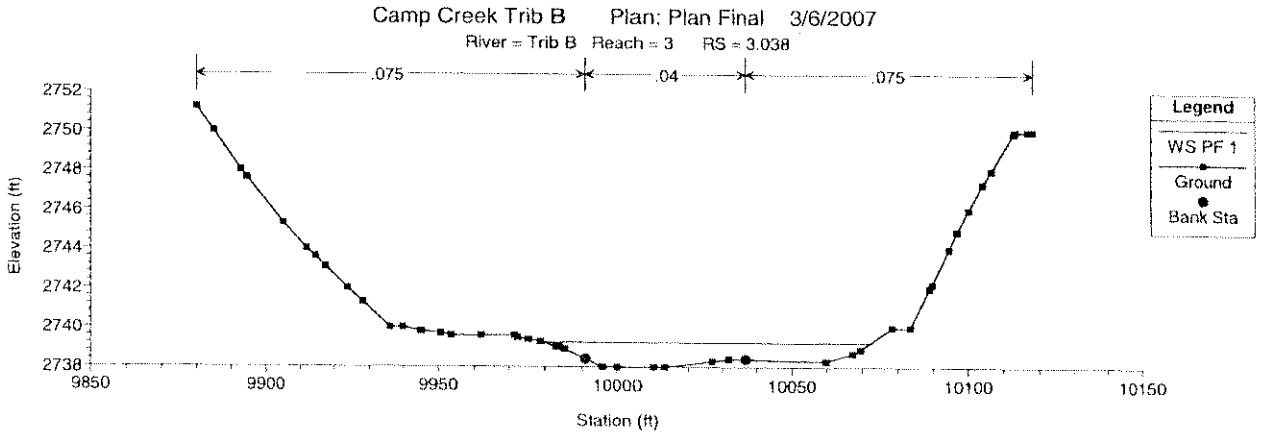
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 3 RS = 3.038
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.04
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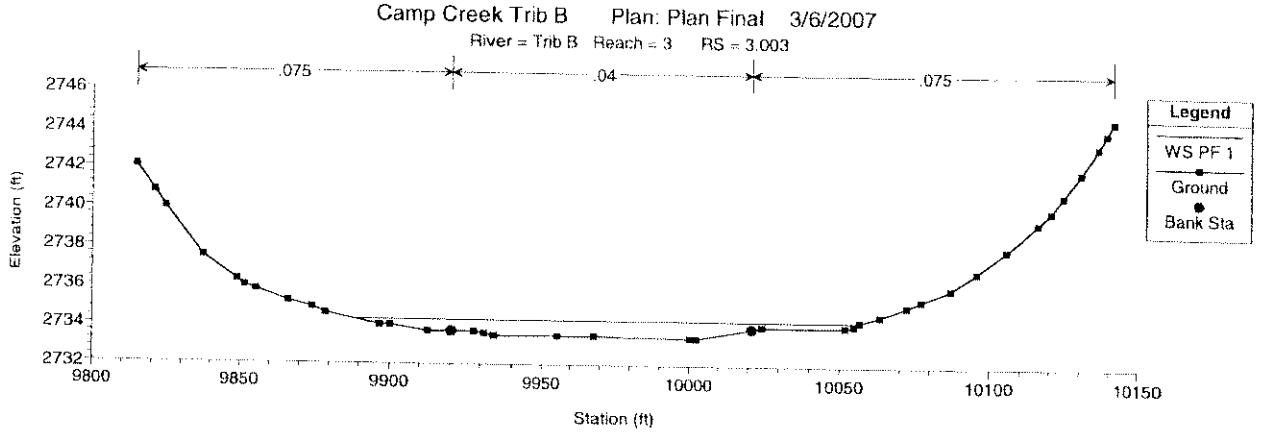
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 3 RS = 3.003
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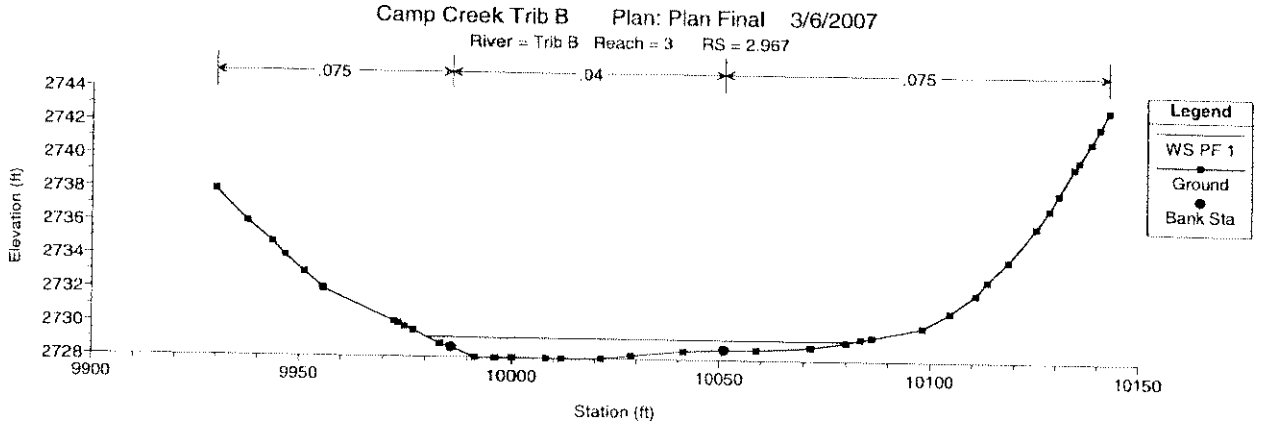
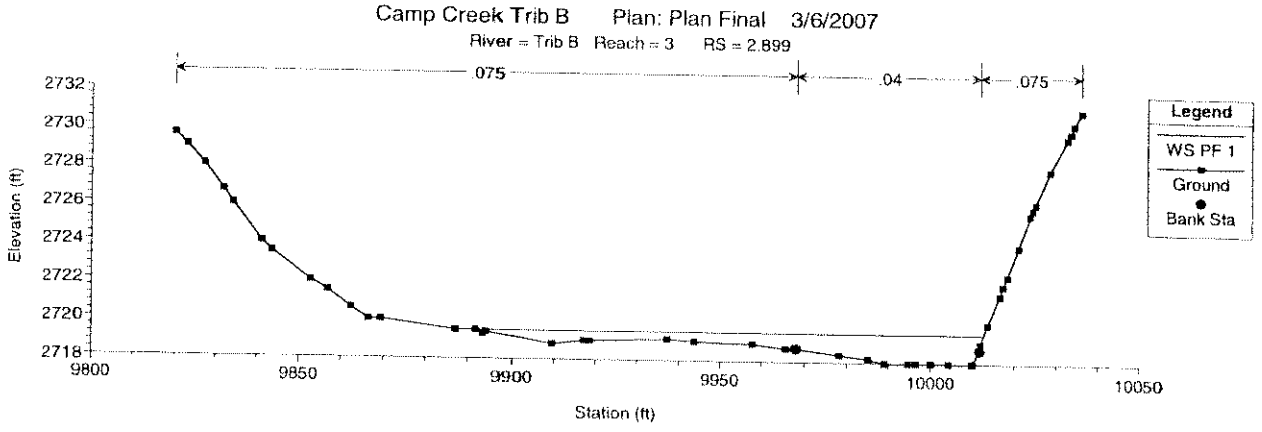
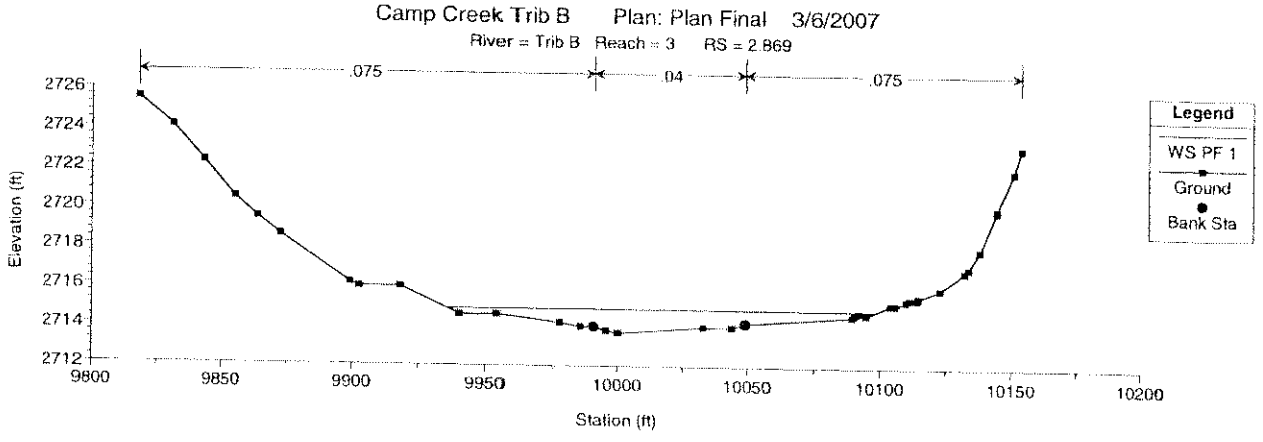
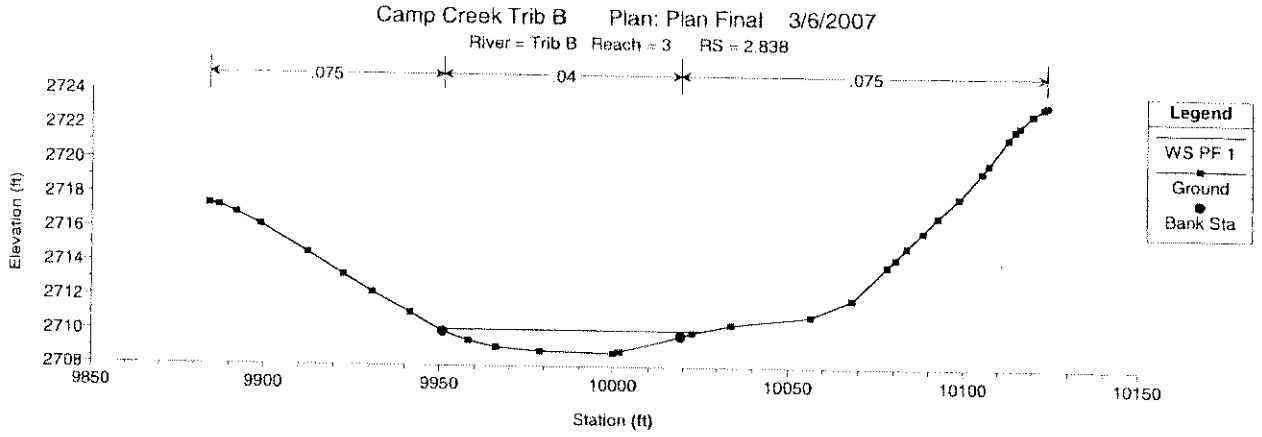
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 3 RS = 2.967
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 3 RS = 2.899
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 3 RS = 2.869
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 3 RS = 2.838
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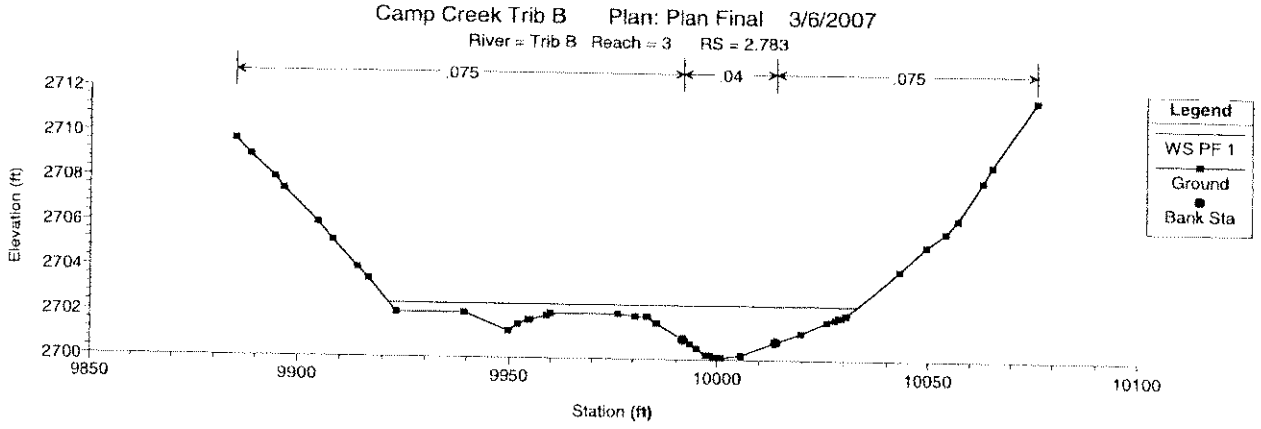
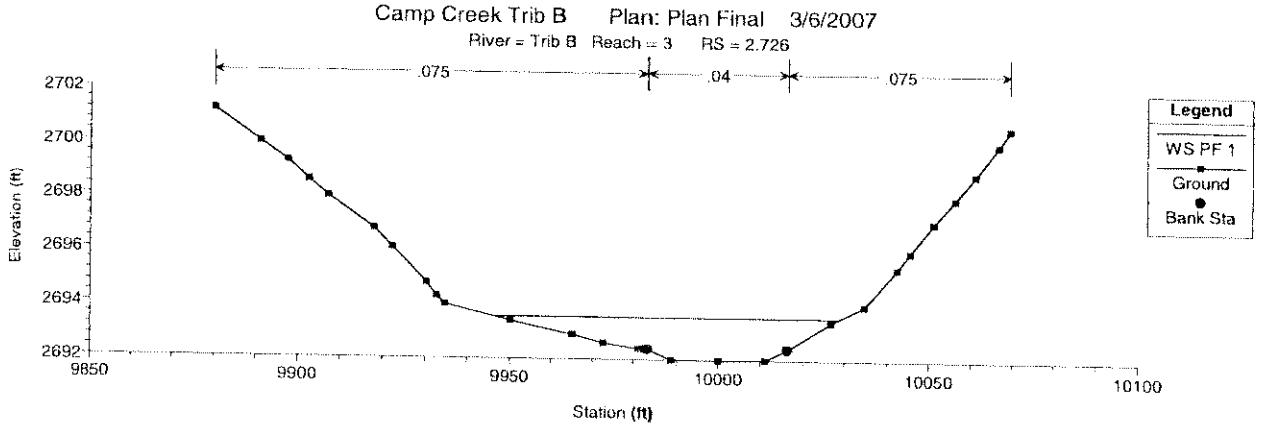
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 3 RS = 2.783
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 3 RS = 2.726
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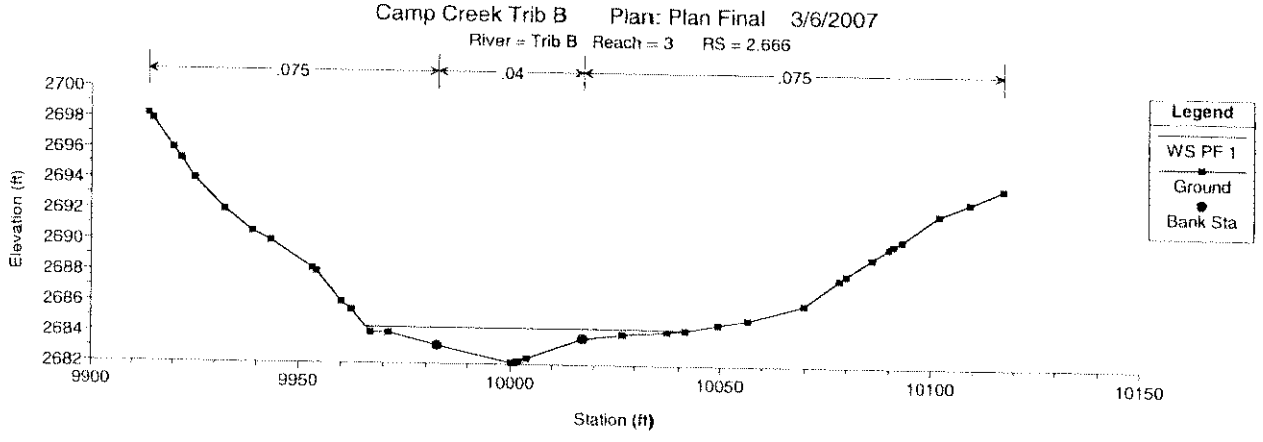
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 3 RS = 2.666
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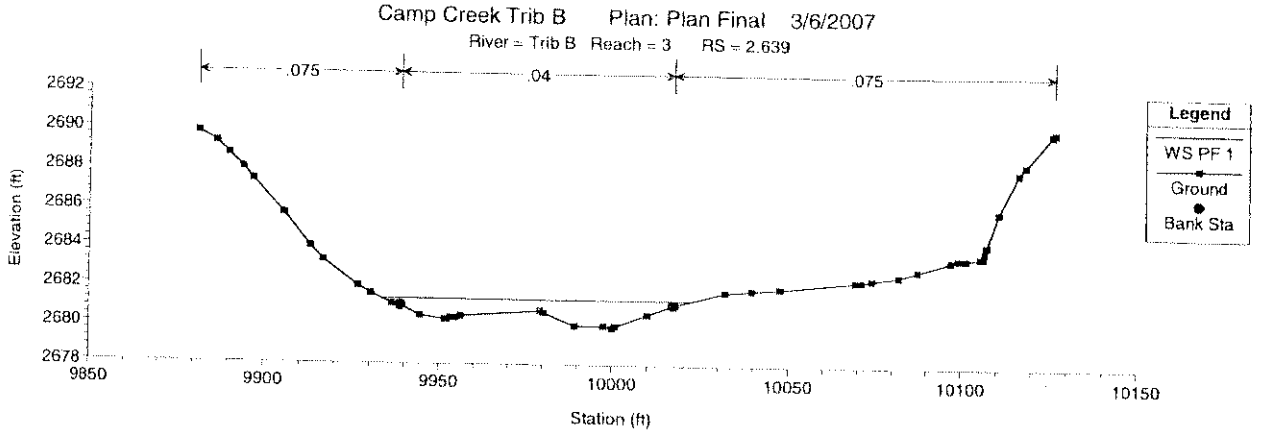
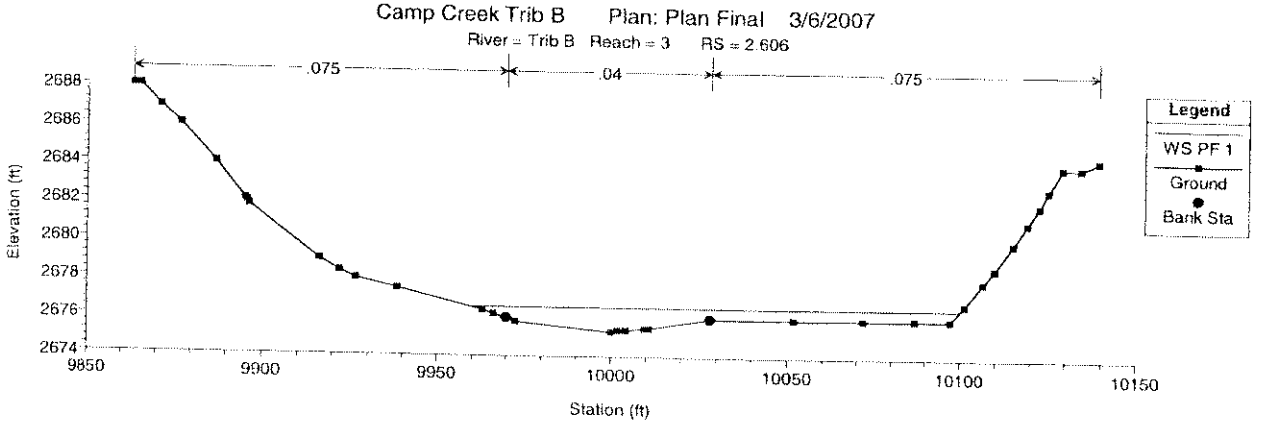
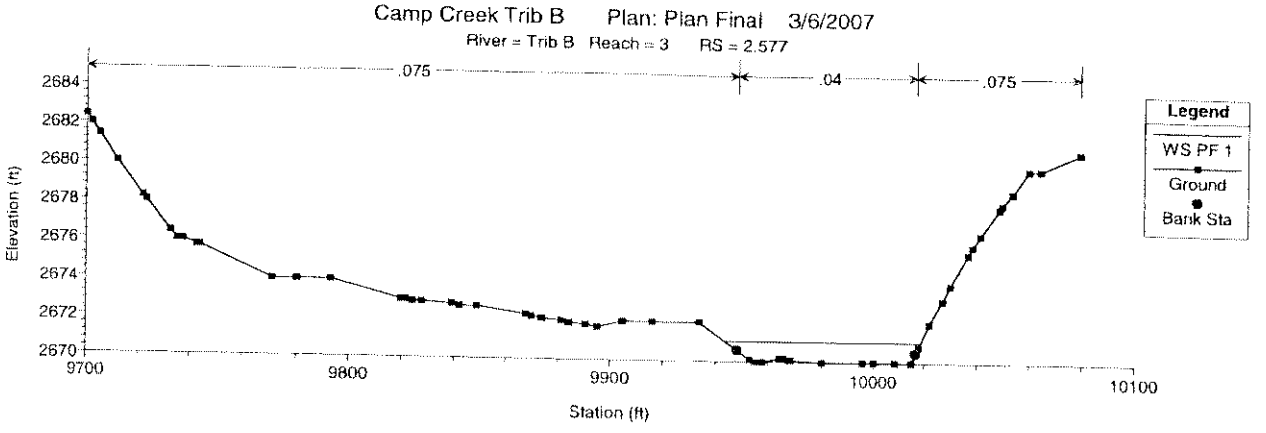
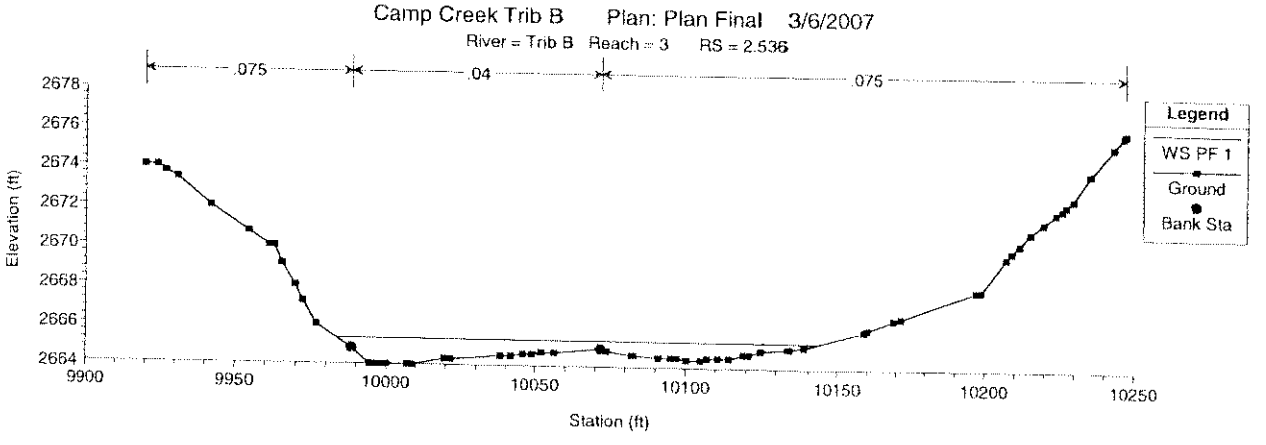
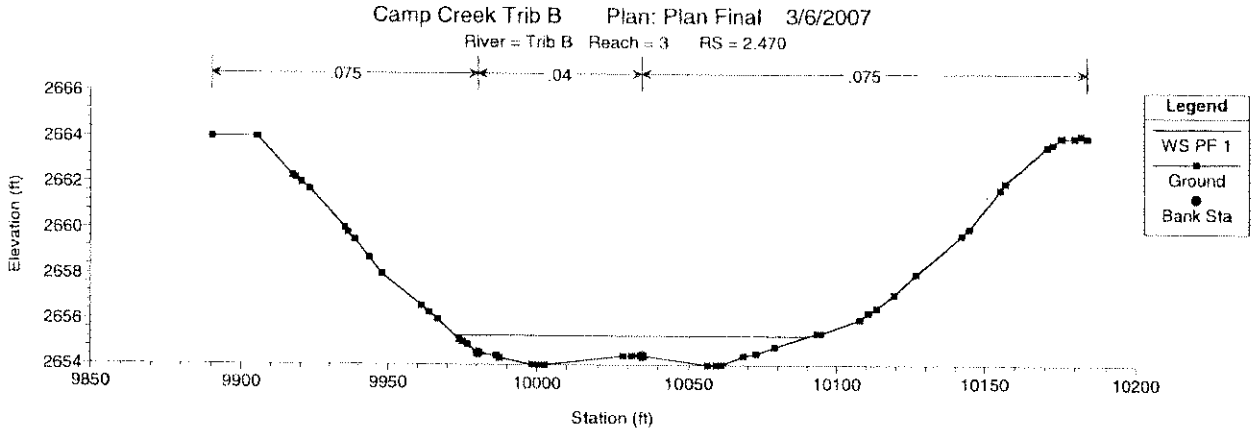
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

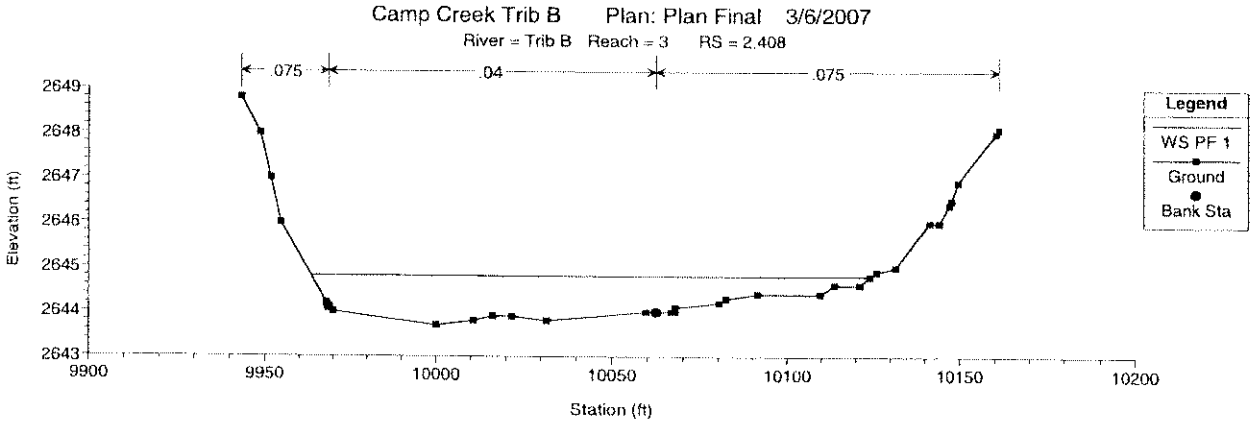

Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 3 RS = 2.639
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 3 RS = 2.606
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 3 RS = 2.577
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 3 RS = 2.536
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 3 RS = 2.470
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 3 RS = 2.408
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.04
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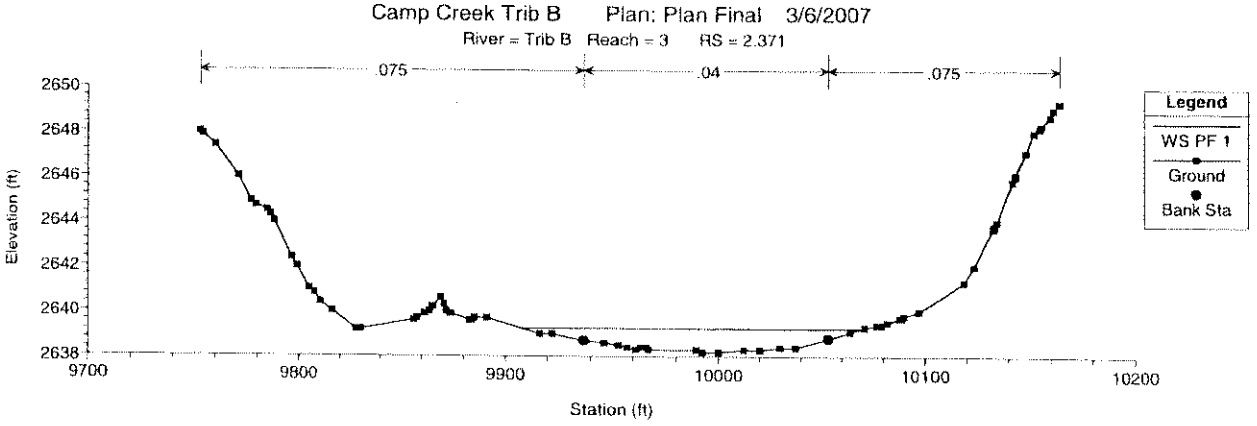
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 3 RS = 2.371
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.04
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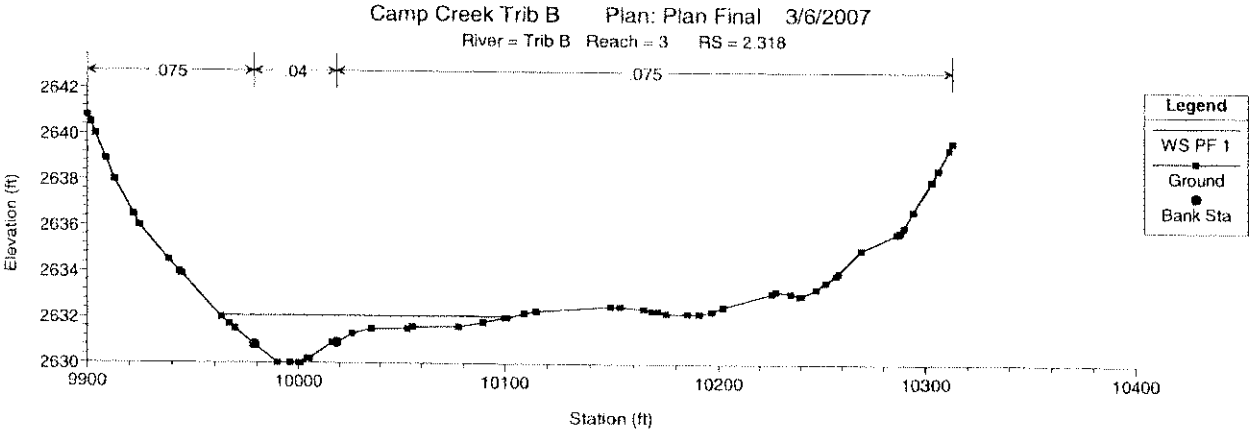
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 3 RS = 2.318
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.04
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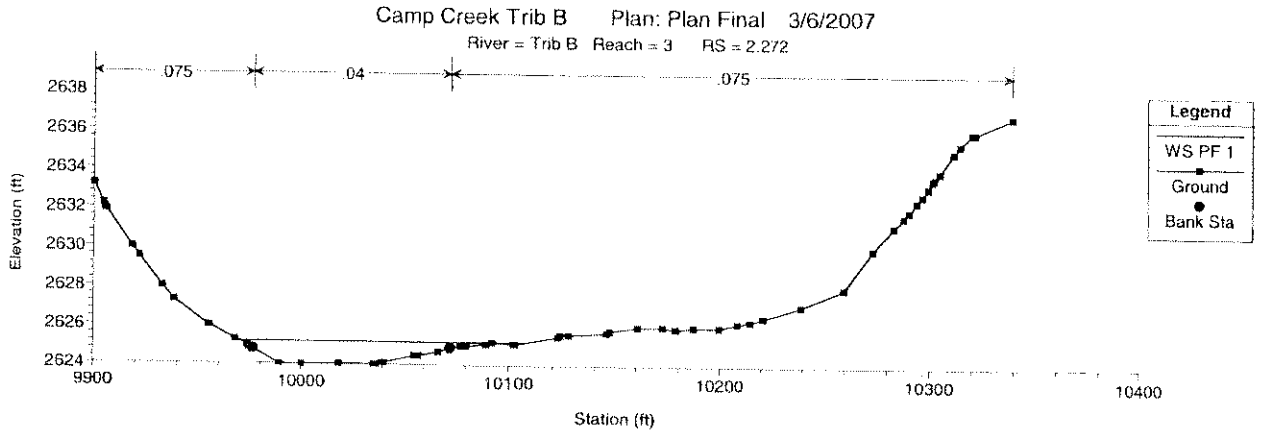
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 3 RS = 2.272
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.04
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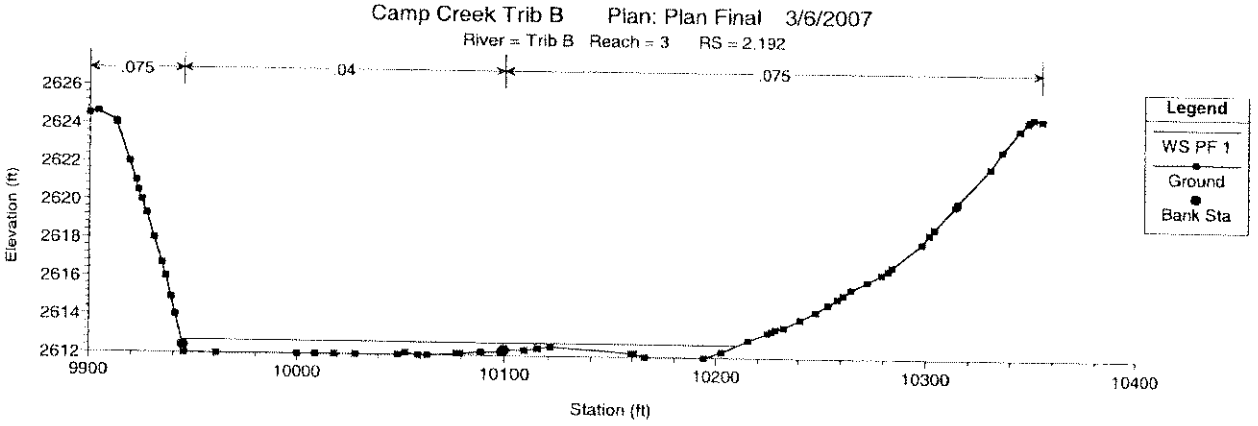
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 3 RS = 2.192
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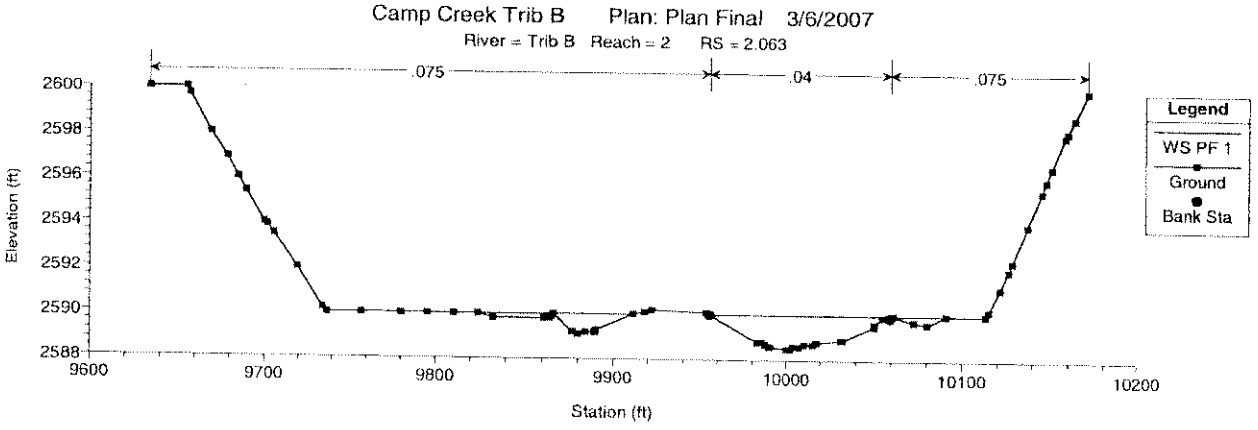
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 2 RS = 2.063
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.04
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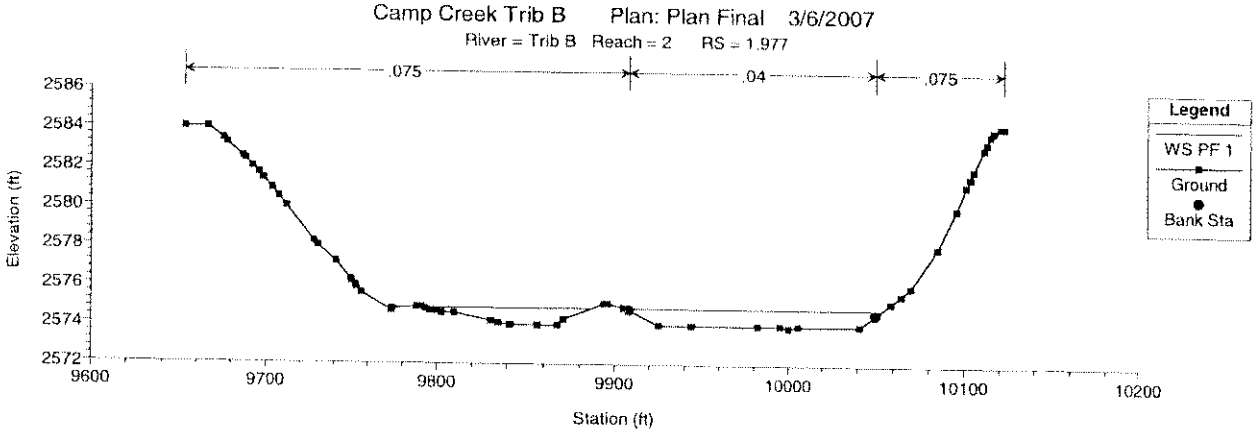
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 2 RS = 1.977
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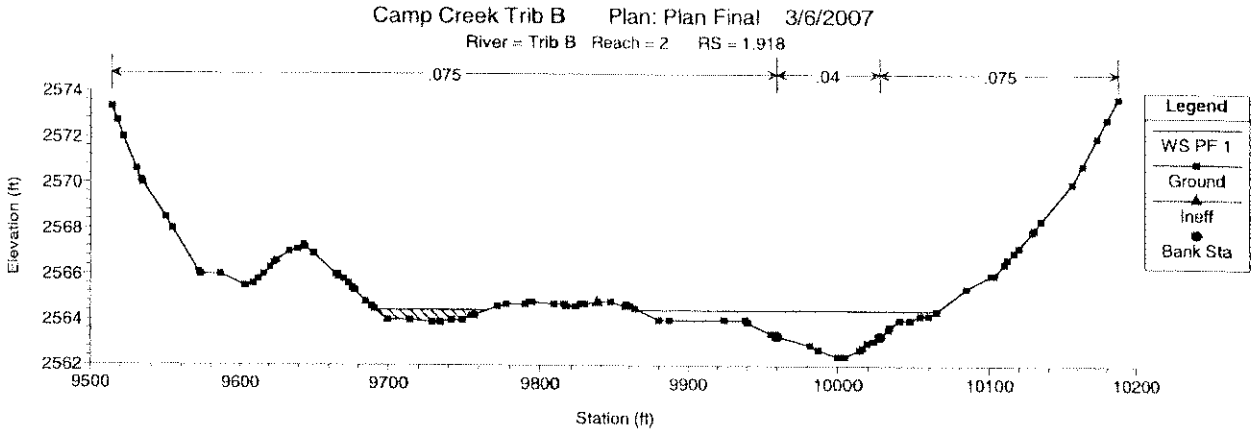
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 2 RS = 1.918
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.04
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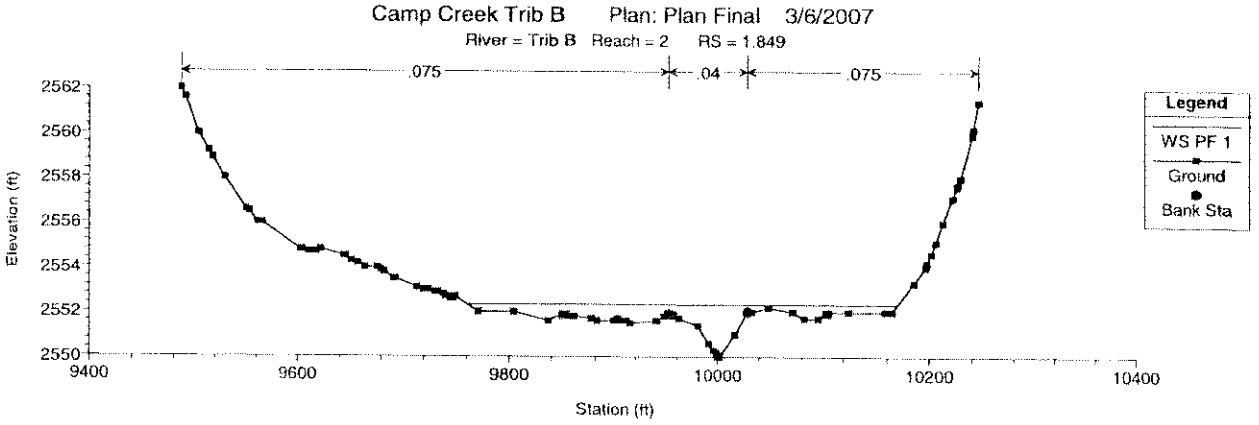
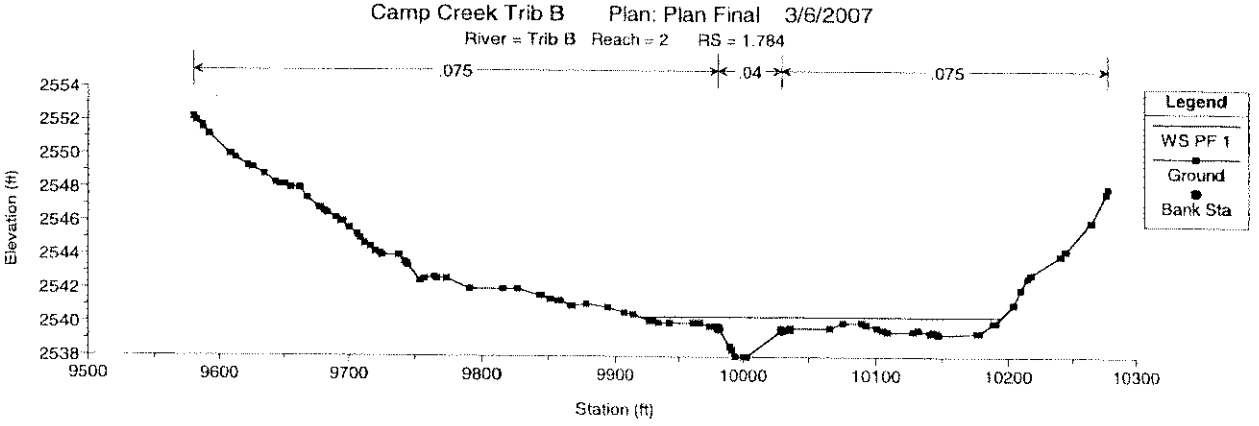
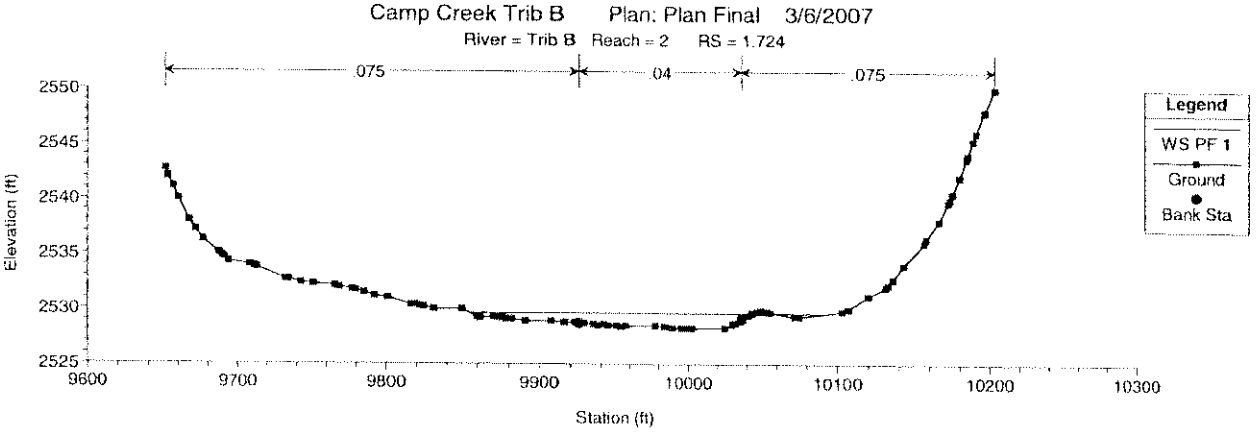
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Ineff
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 2 RS = 1.849
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 2 RS = 1.784
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 2 RS = 1.724
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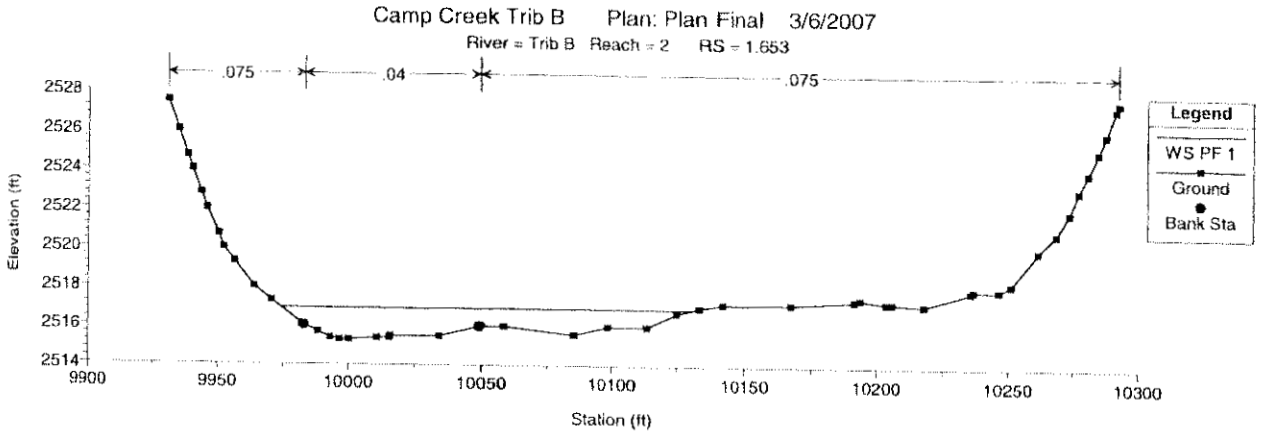
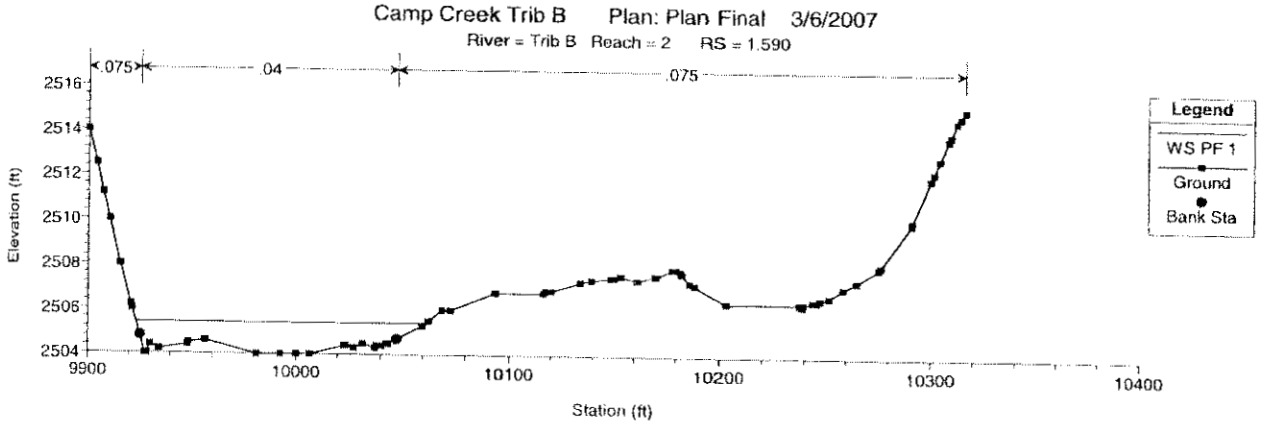
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 2 RS = 1.653
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 2 RS = 1.590
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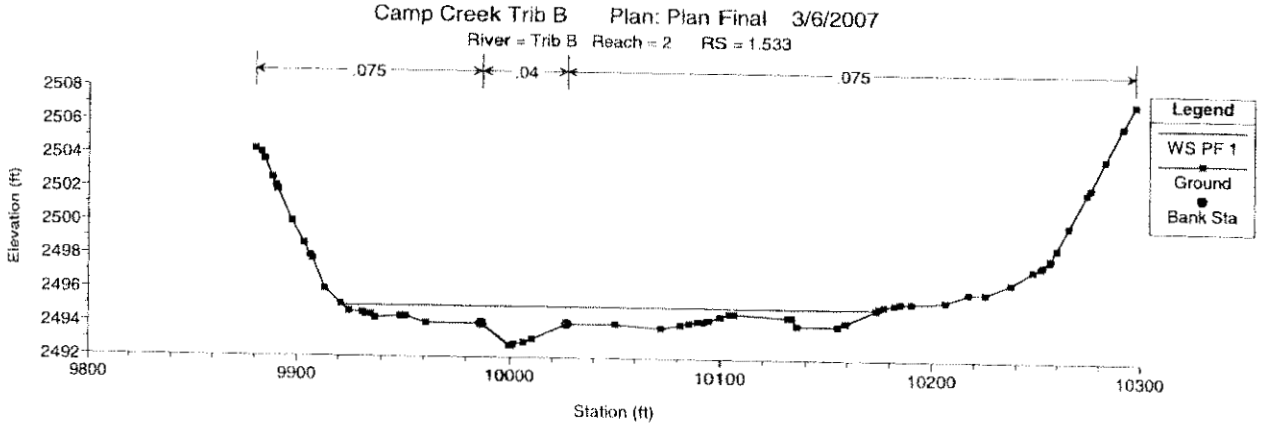
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 2 RS = 1.533
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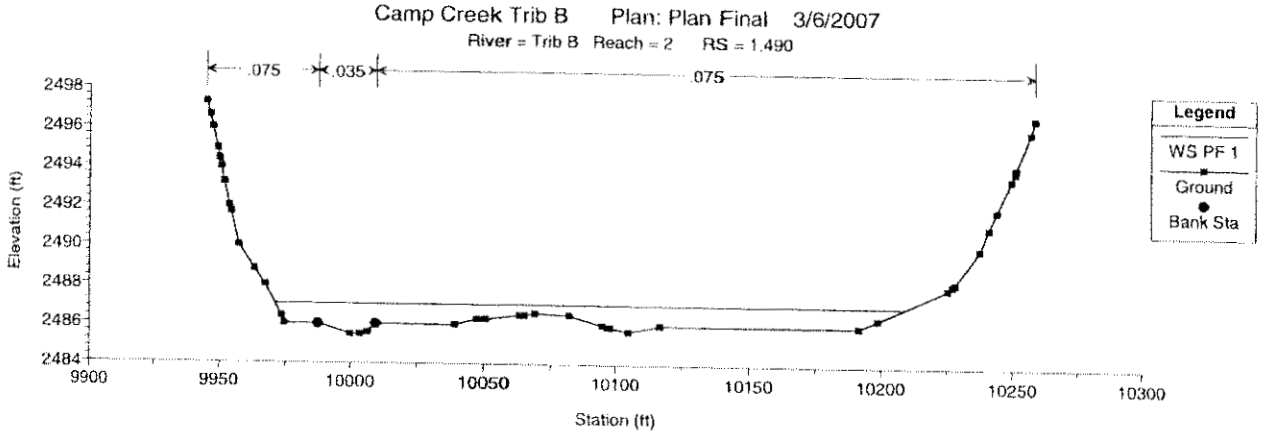
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 2 RS = 1.490
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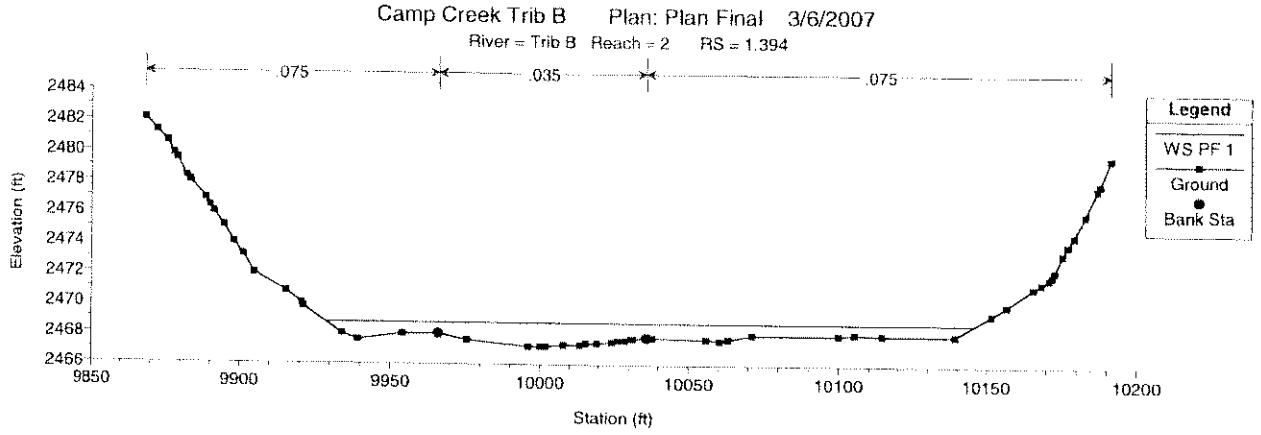
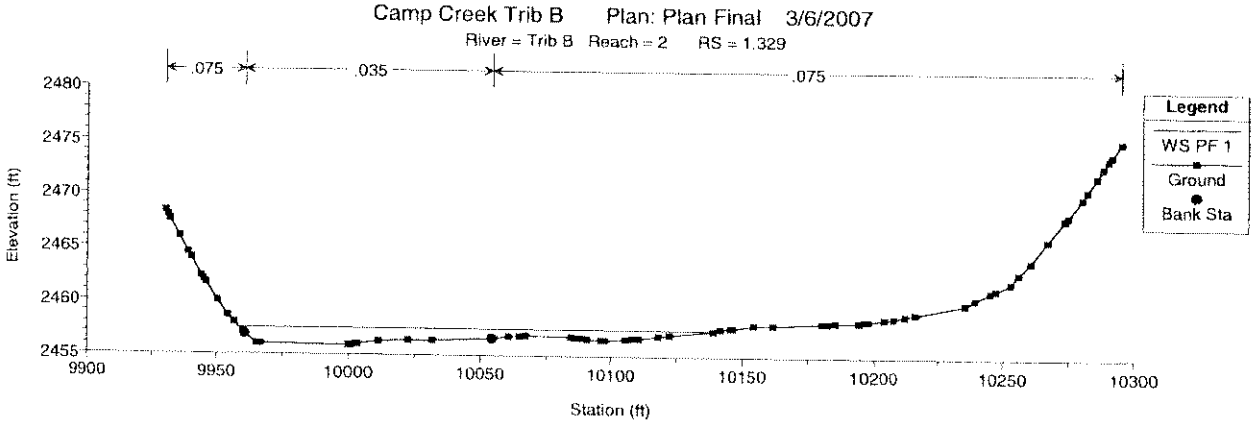
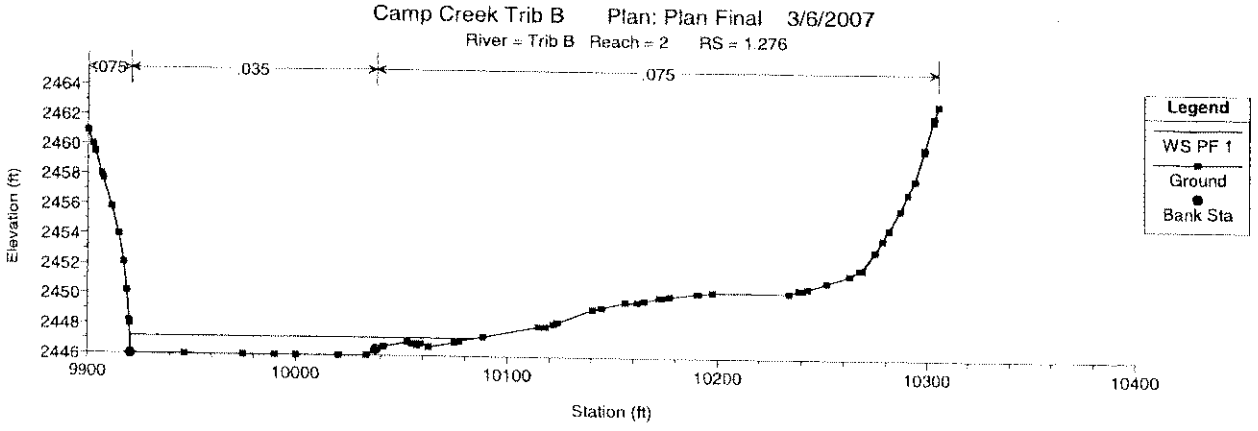
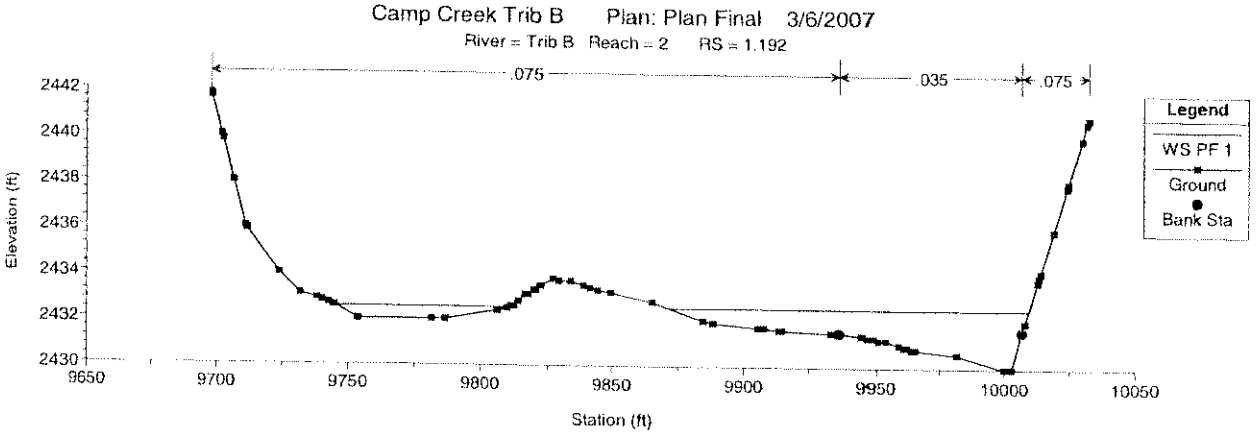
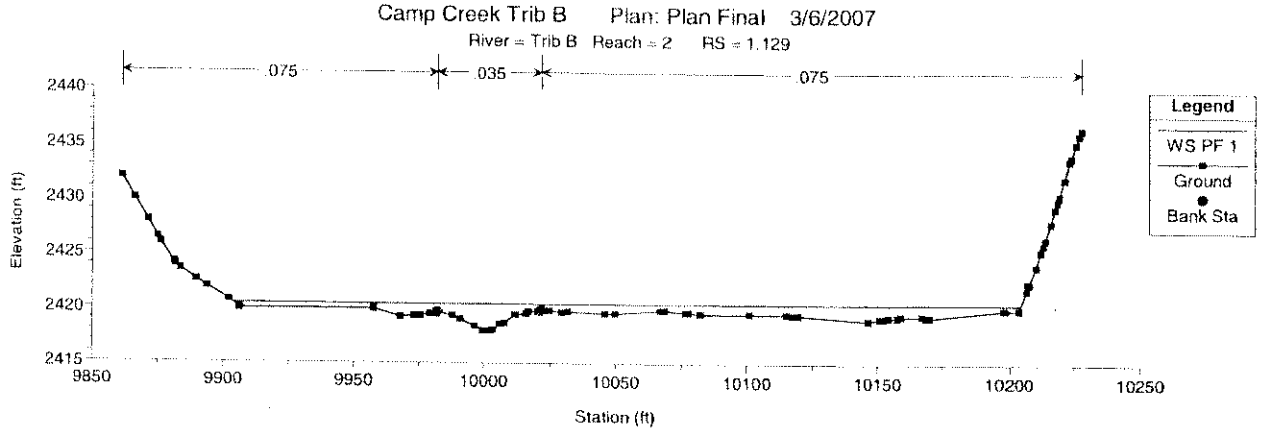
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

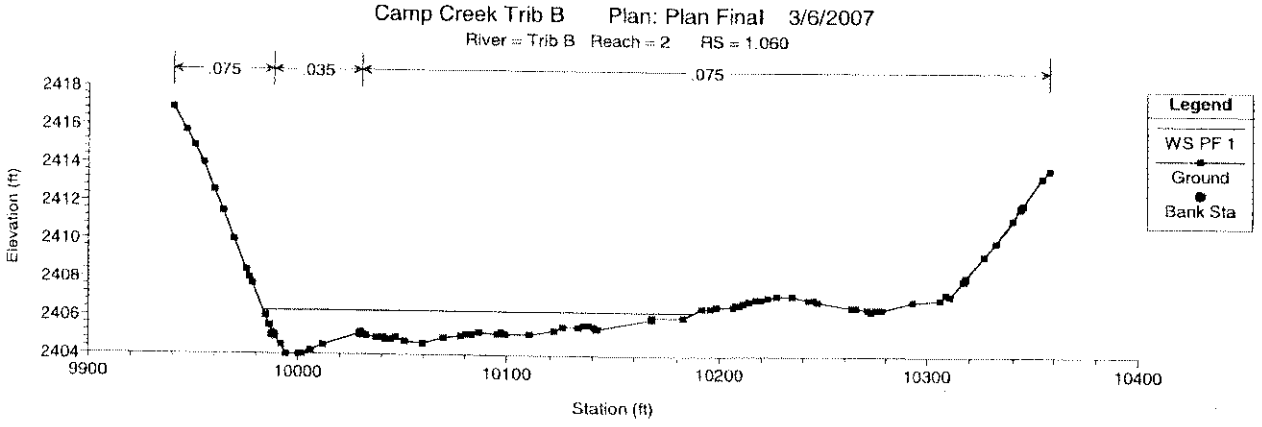

Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 2 RS = 1.394
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

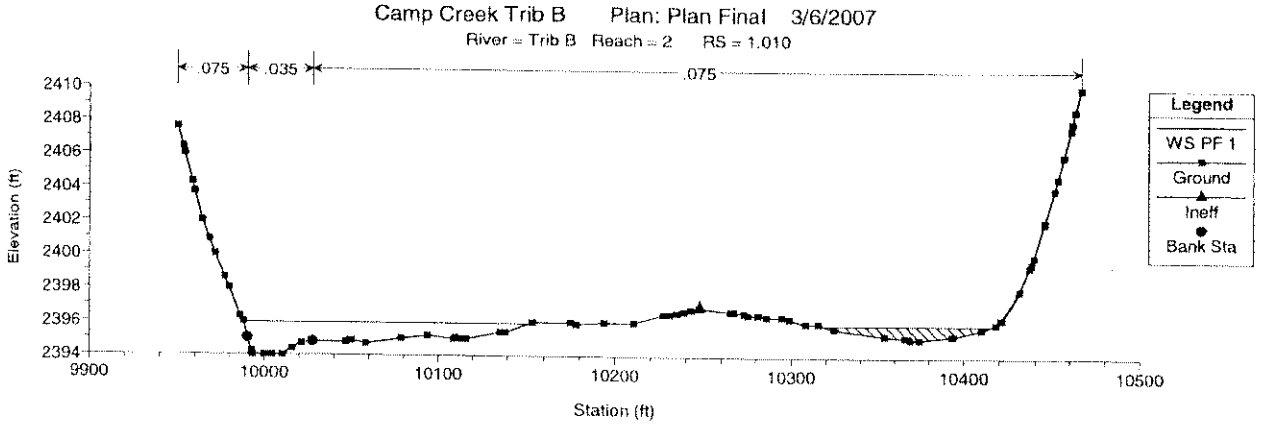

Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 2 RS = 1.329
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

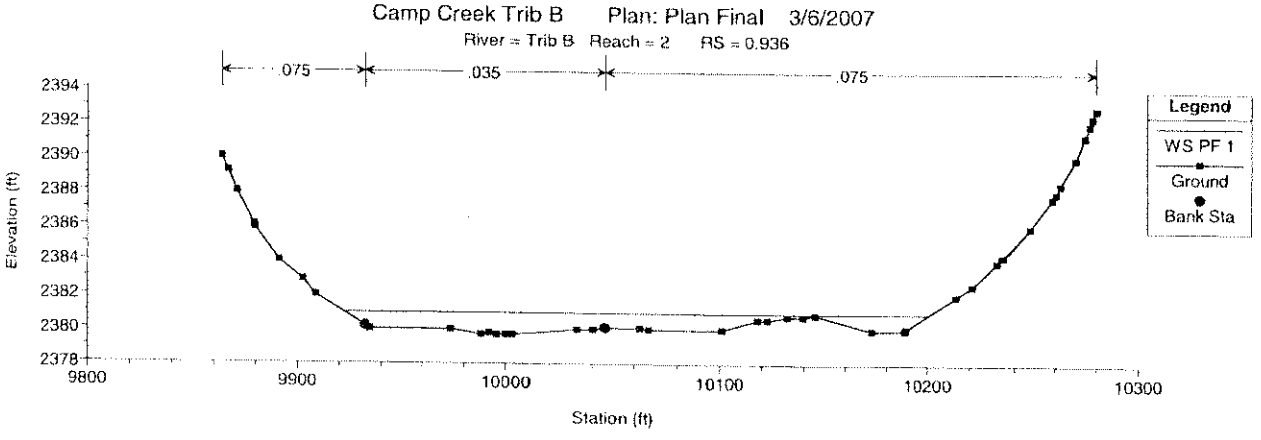

Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 2 RS = 1.276
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 2 RS = 1.192
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 2 RS = 1.129
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

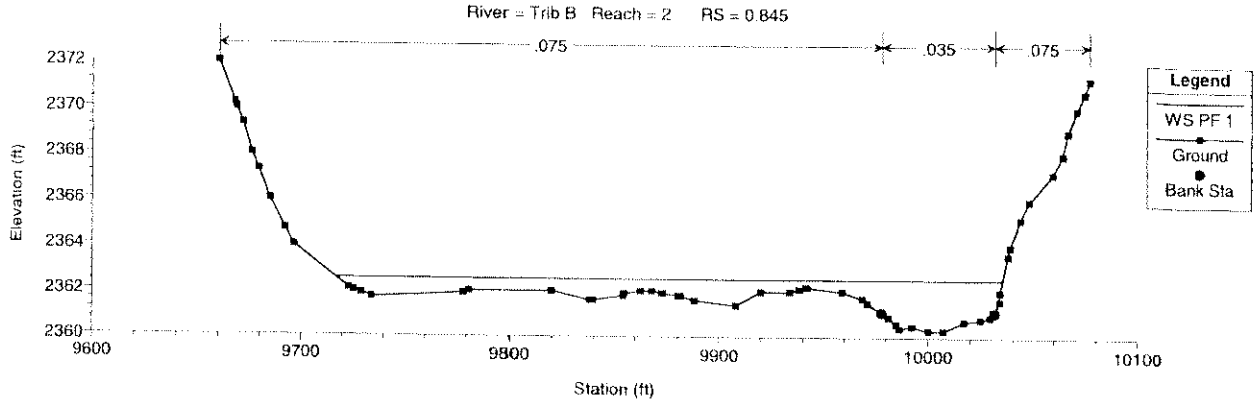

Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 2 RS = 1.060
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 2 RS = 1.010
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Ineff
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 2 RS = 0.936
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

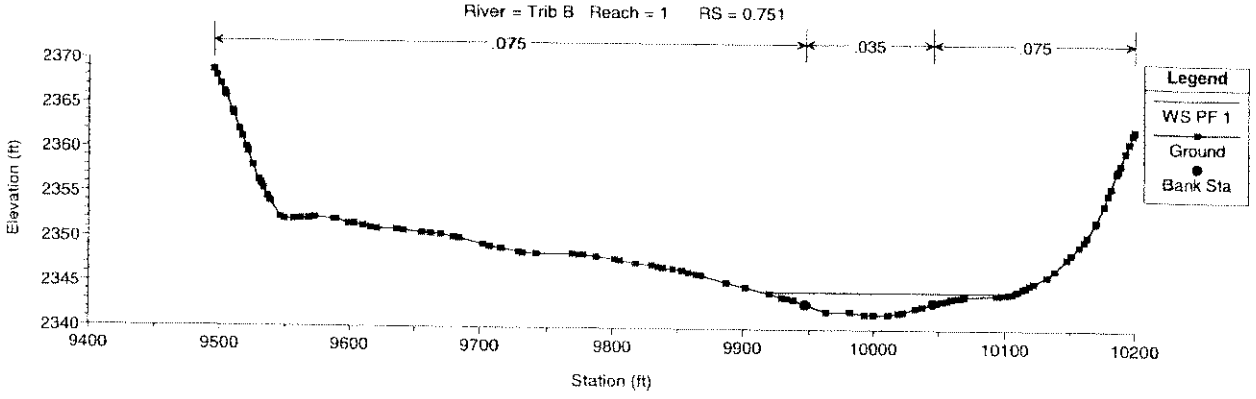
Camp Creek Trib B Plan: Plan Final 3/6/2007

River = Trib B Reach = 2 RS = 0.845



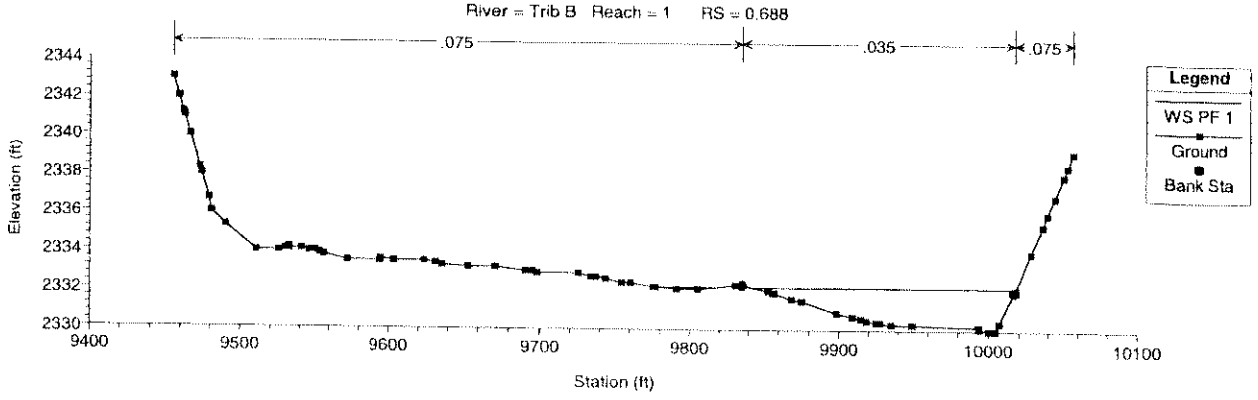
Camp Creek Trib B Plan: Plan Final 3/6/2007

River = Trib B Reach = 1 RS = 0.751



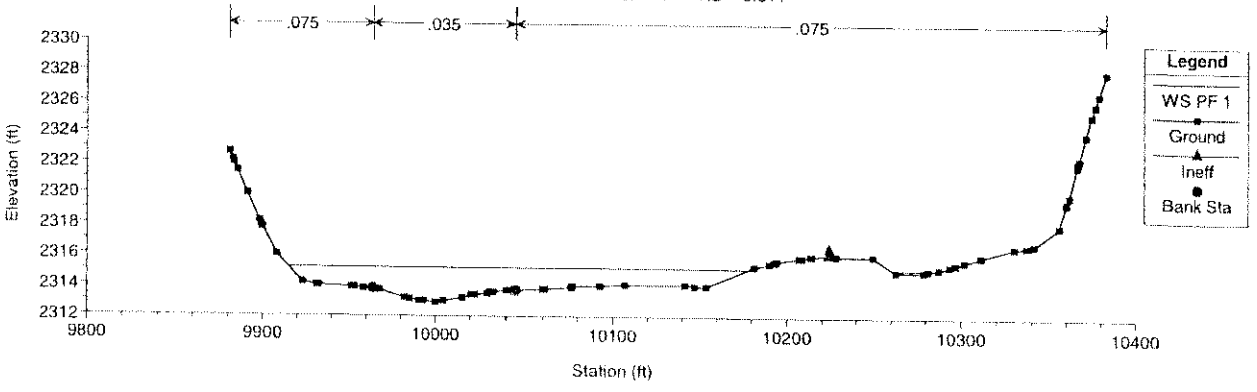
Camp Creek Trib B Plan: Plan Final 3/6/2007

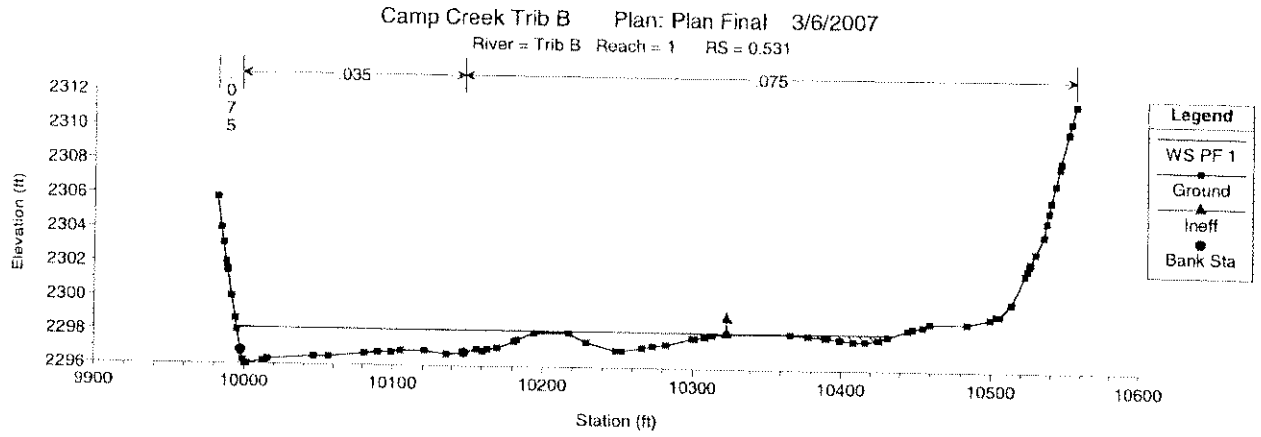
River = Trib B Reach = 1 RS = 0.688



Camp Creek Trib B Plan: Plan Final 3/6/2007

River = Trib B Reach = 1 RS = 0.611




Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 1 RS = 0.531
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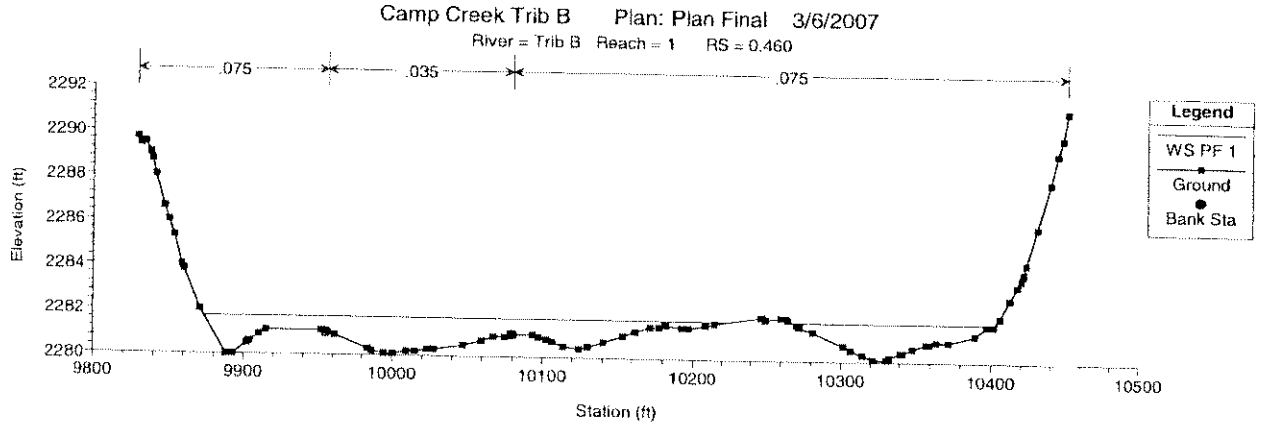
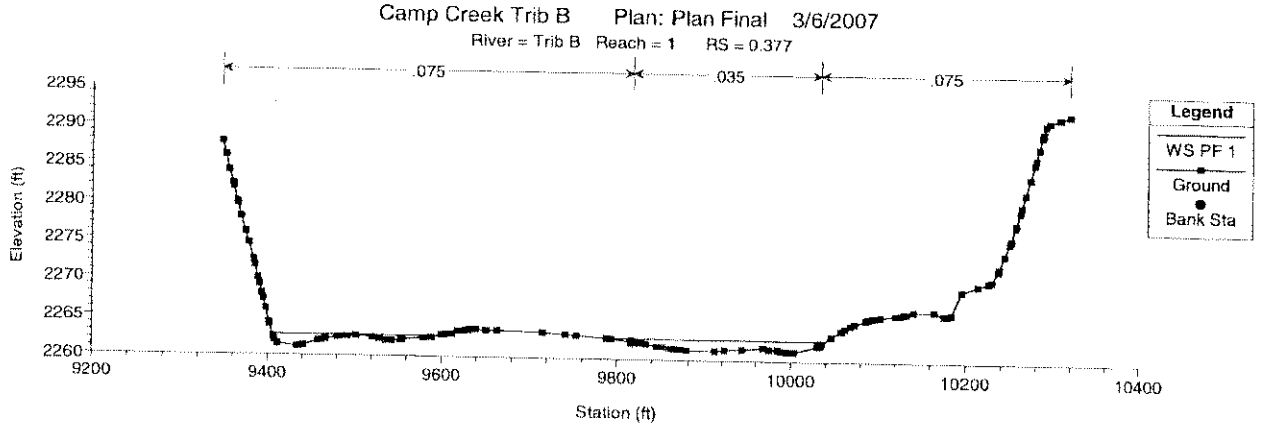
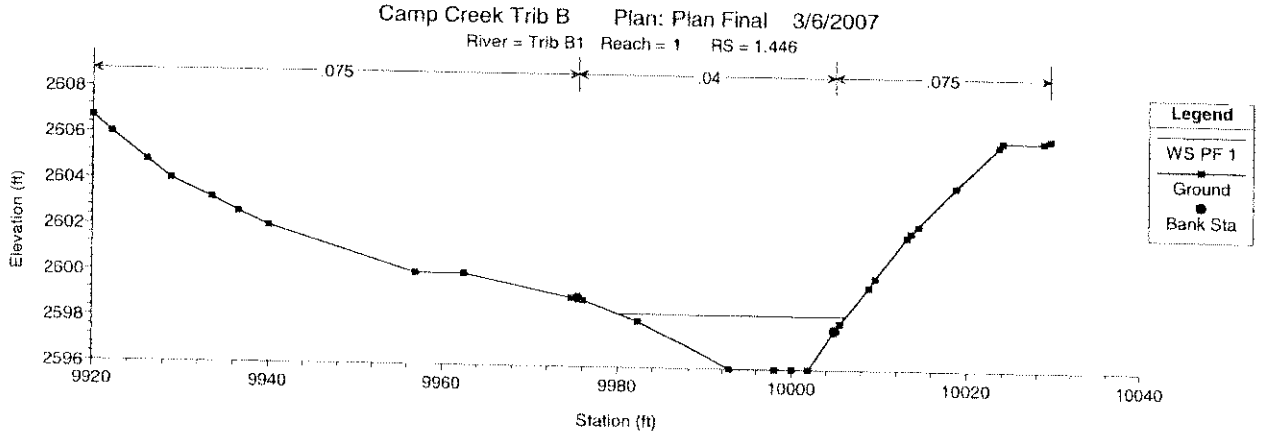
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Ineff
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 1 RS = 0.460
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B Reach = 1 RS = 0.377
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B1 Reach = 1 RS = 1.446
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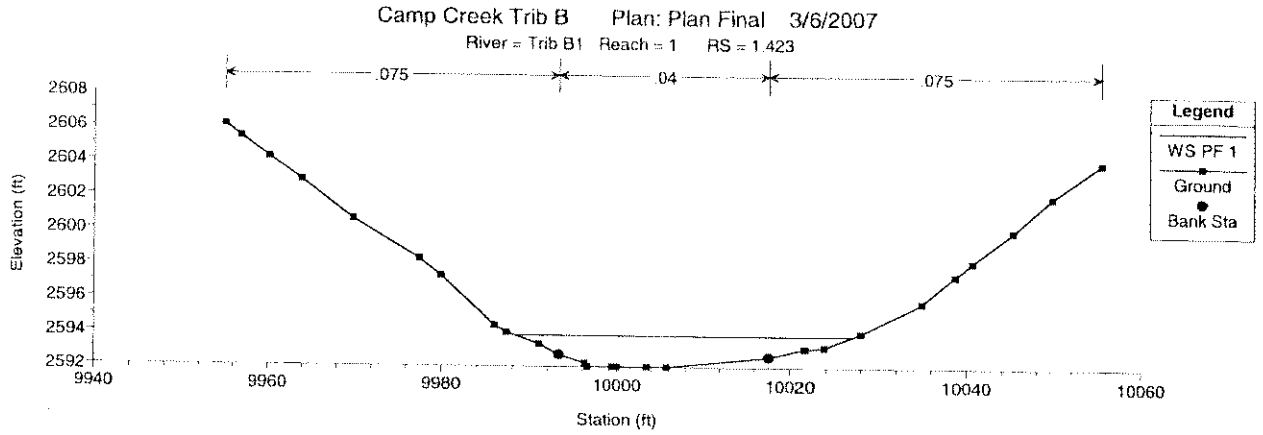
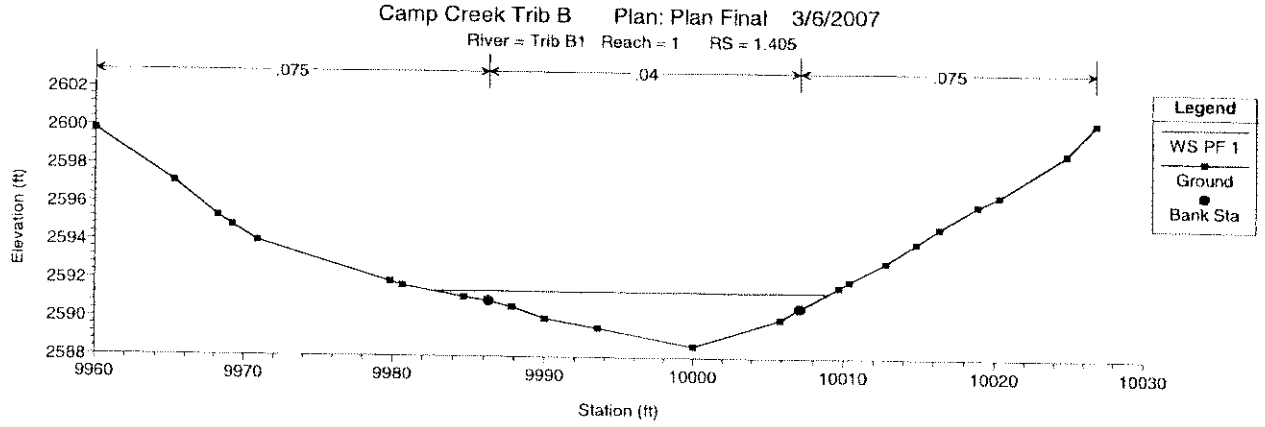
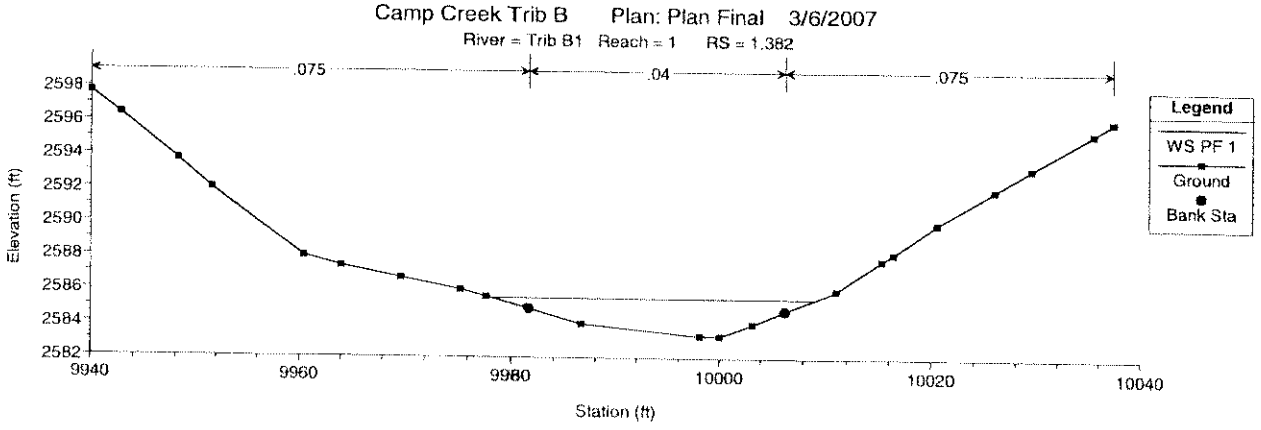
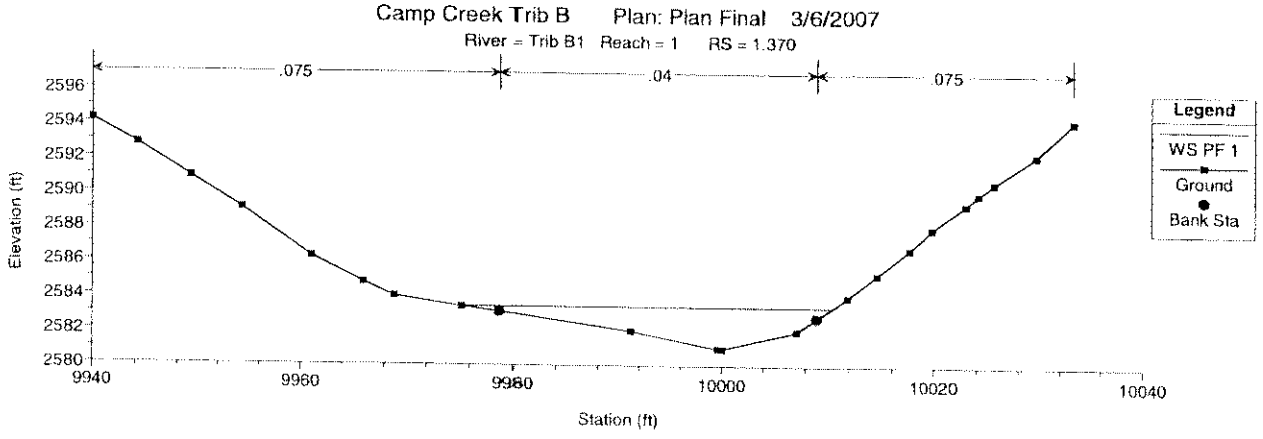
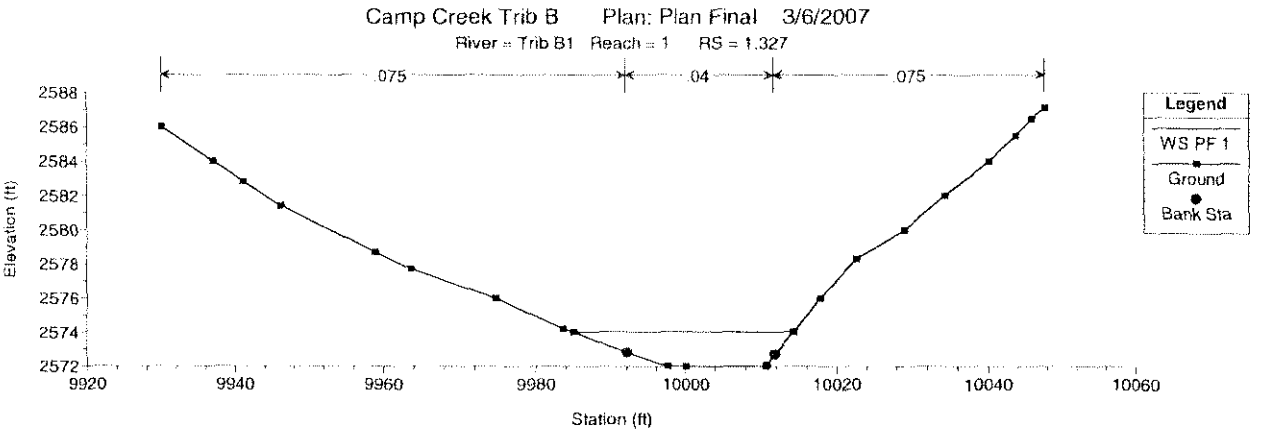
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

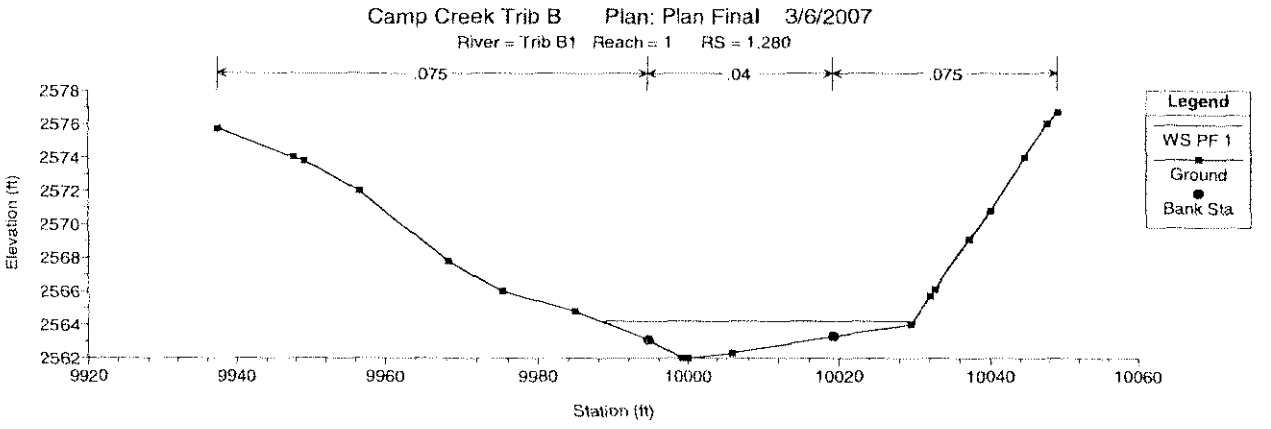

Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B1 Reach = 1 RS = 1.423
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B1 Reach = 1 RS = 1.405
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B1 Reach = 1 RS = 1.382
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B1 Reach = 1 RS = 1.370
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B1 Reach = 1 RS = 1.327
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B1 Reach = 1 RS = 1.280
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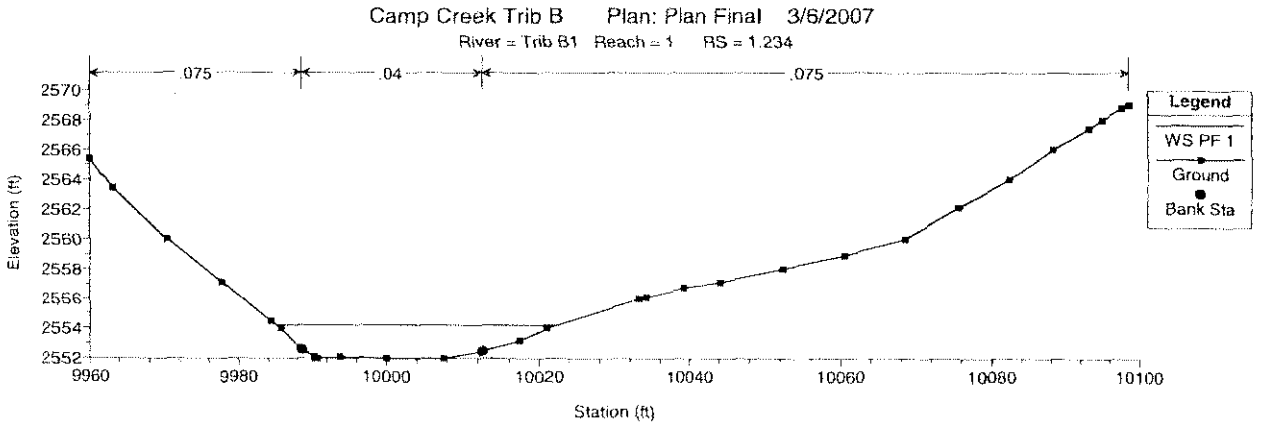
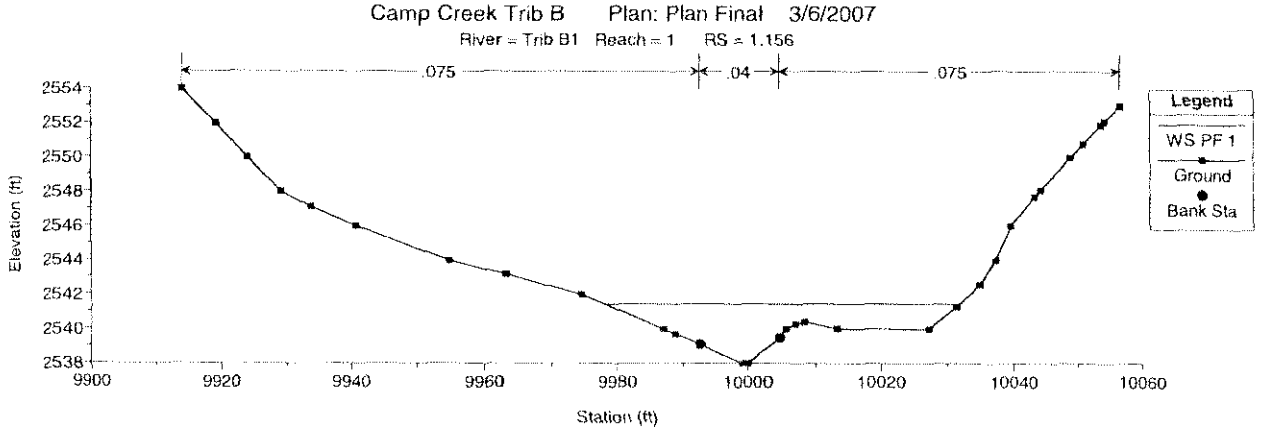
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B1 Reach = 1 RS = 1.234
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B1 Reach = 1 RS = 1.156
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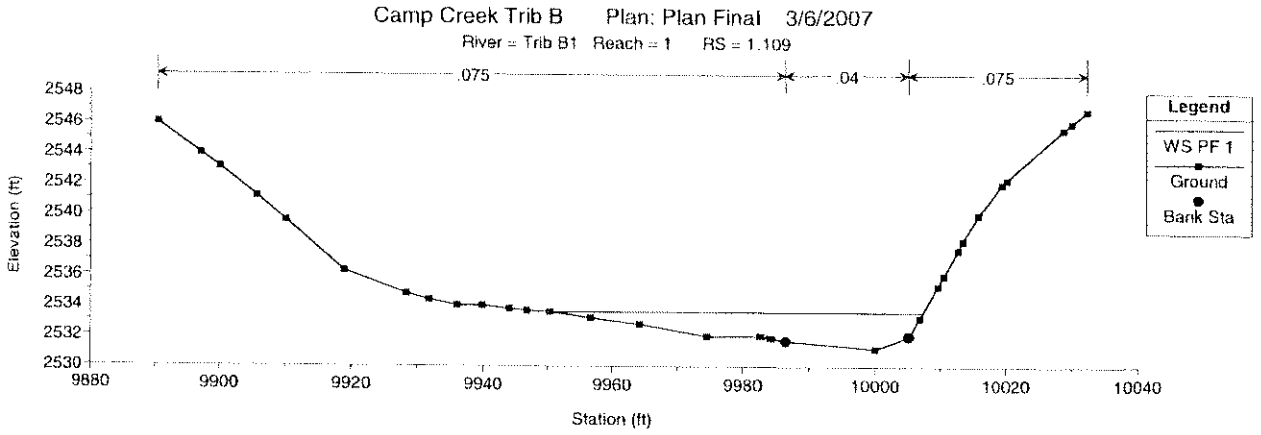
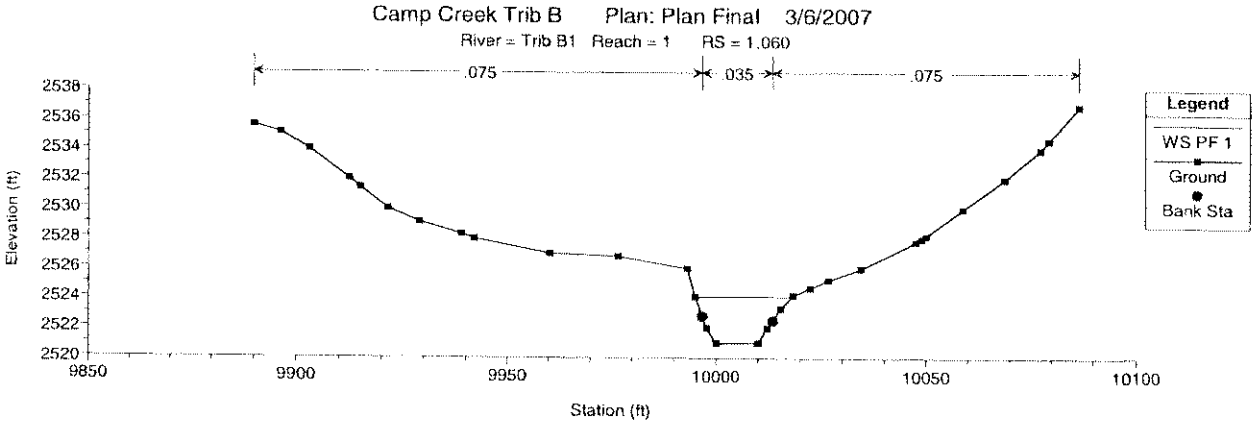
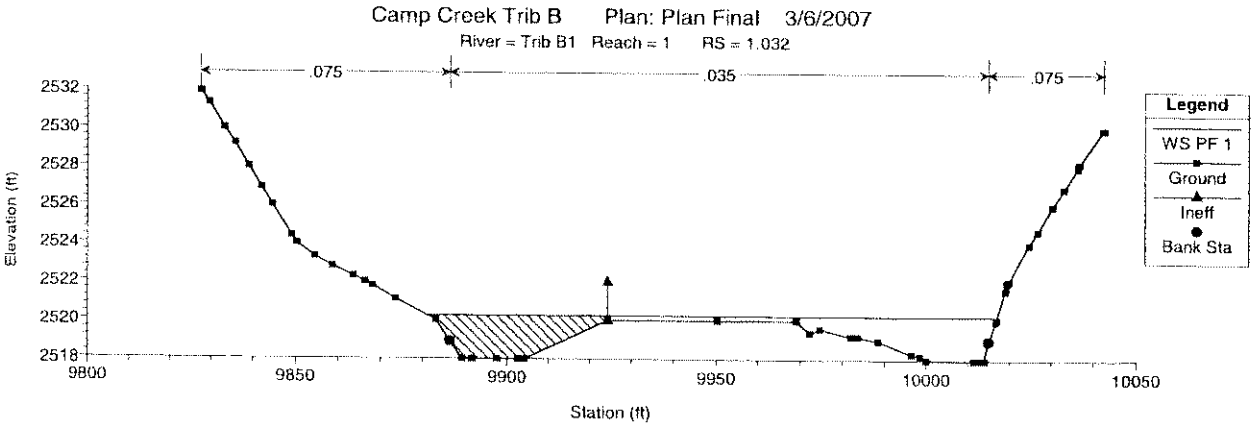
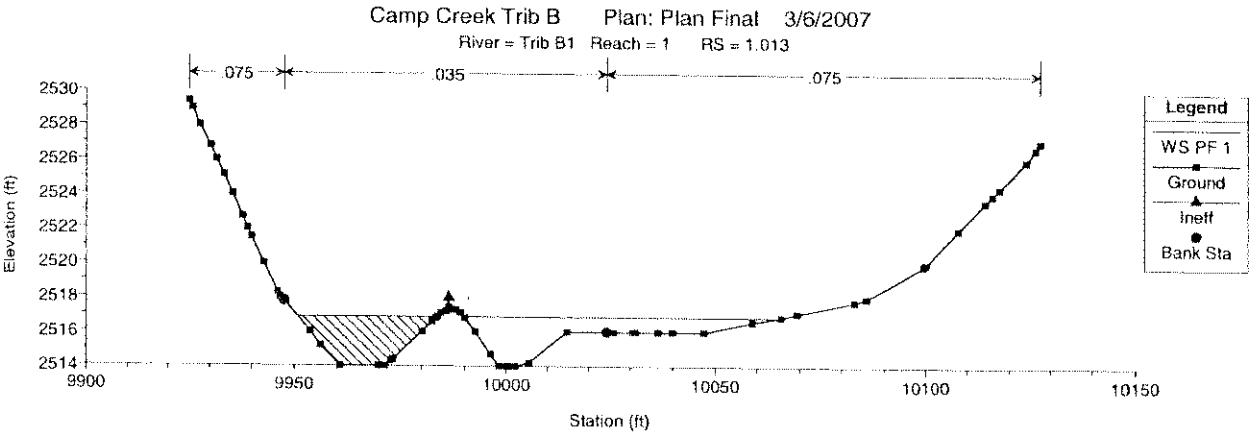
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B1 Reach = 1 RS = 1.109
.075
.04
.075
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B1 Reach = 1 RS = 1.060
.075
.035
.075
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B1 Reach = 1 RS = 1.032
.075
.035
.075
Legend
WS PF 1
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B1 Reach = 1 RS = 1.013
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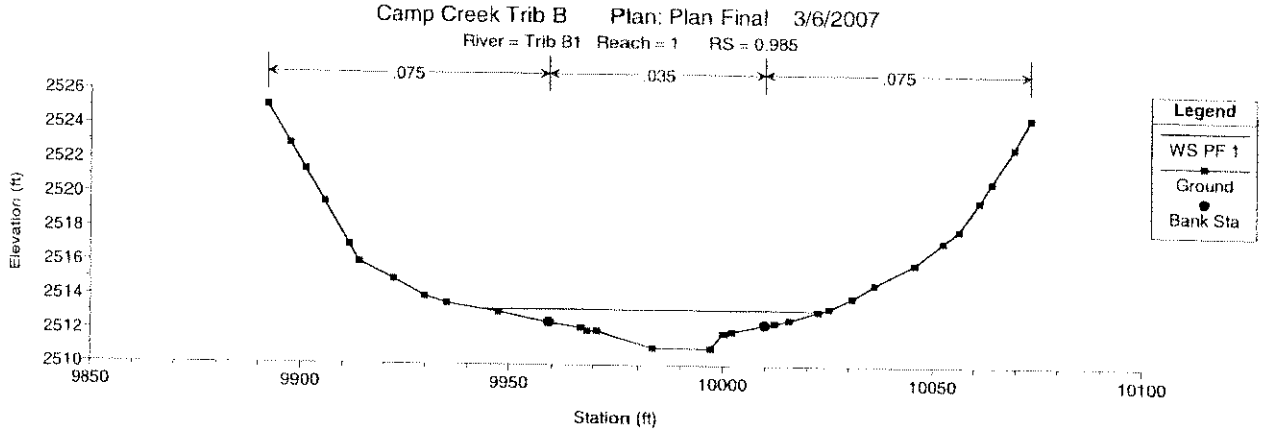
.035
.075
Legend
WS PF 1
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B1 Reach = 1 RS = 0.985
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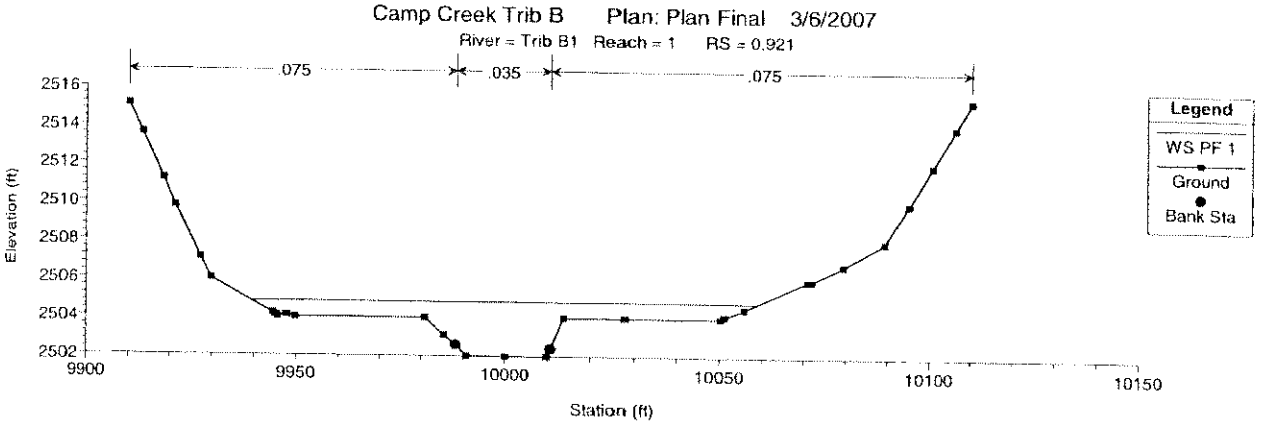
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B1 Reach = 1 RS = 0.921
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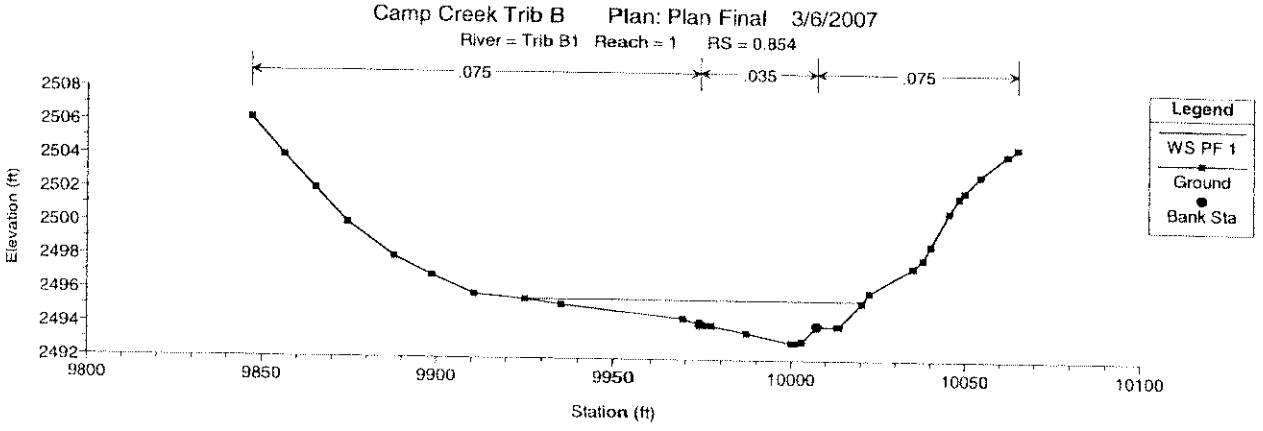
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B1 Reach = 1 RS = 0.854
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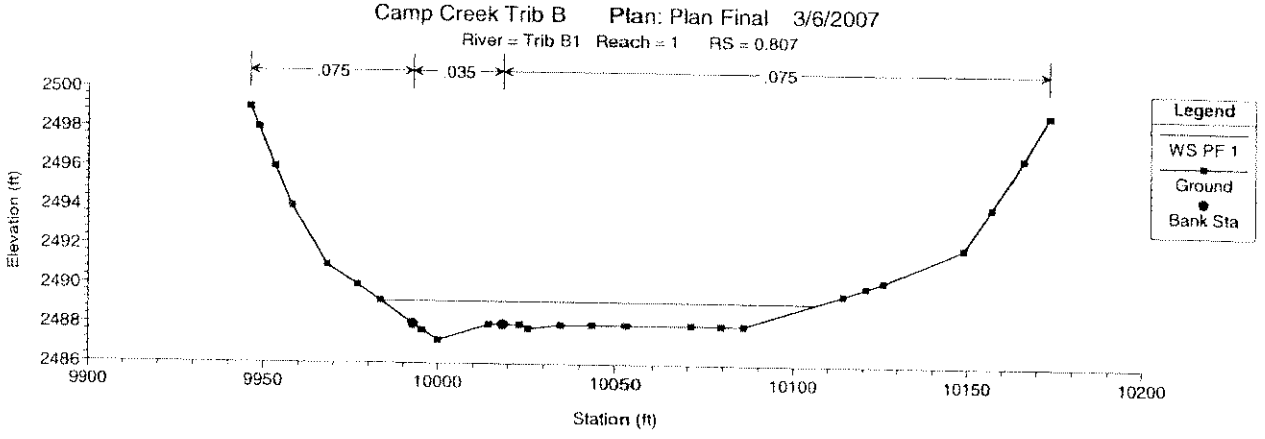
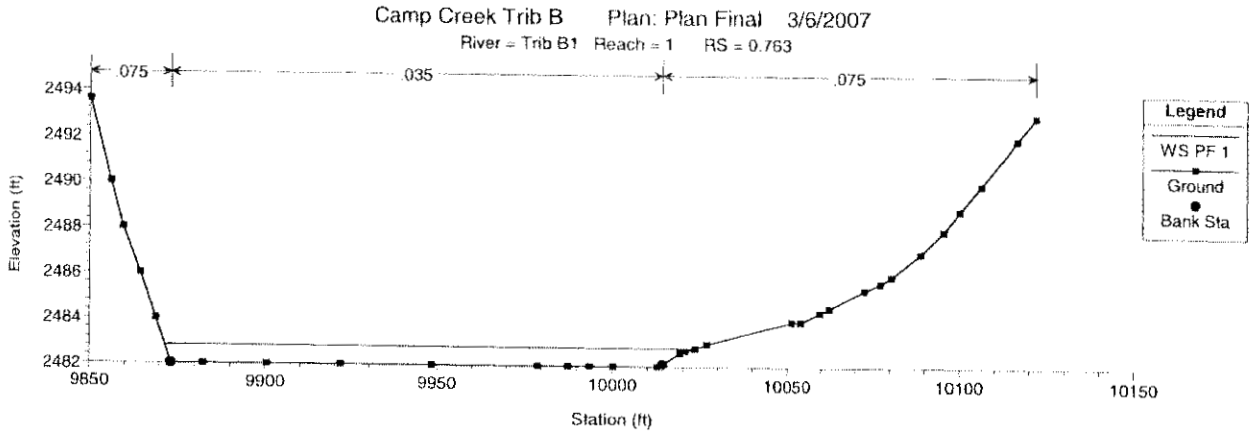
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B1 Reach = 1 RS = 0.807
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B1 Reach = 1 RS = 0.763
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.035
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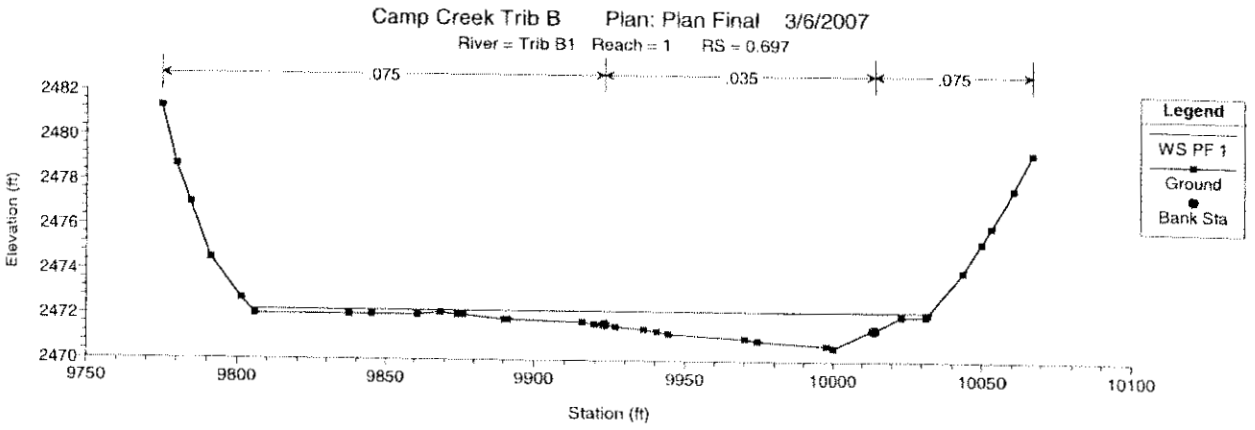
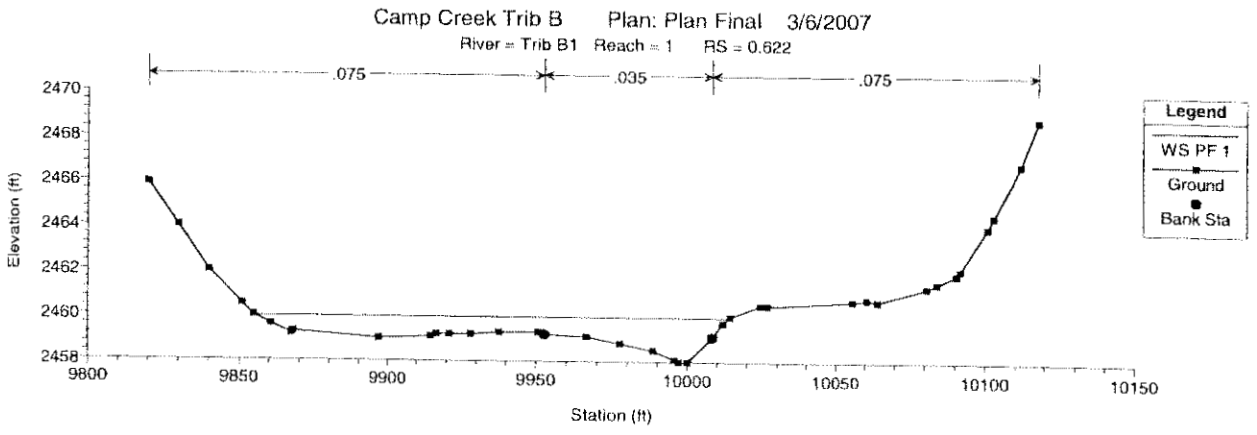
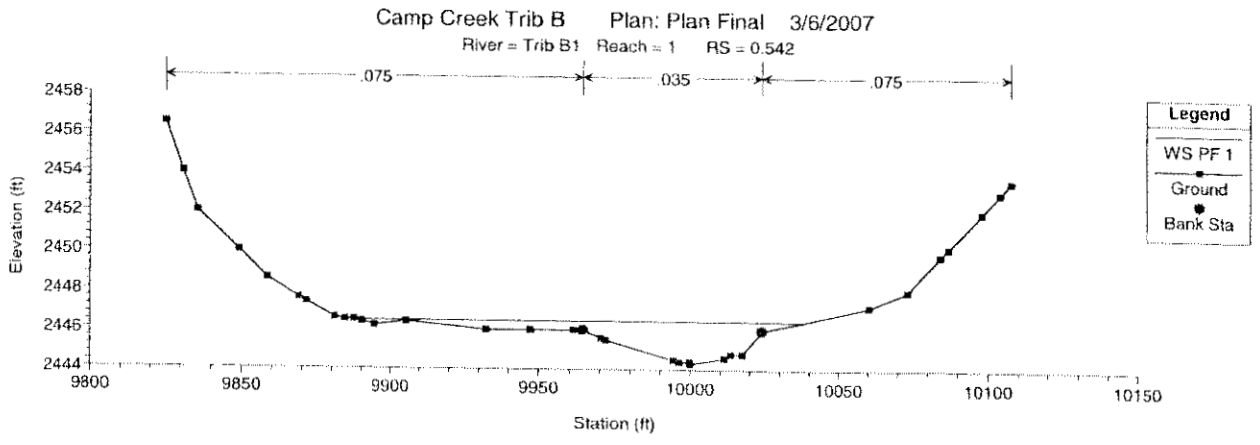
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B1 Reach = 1 RS = 0.697
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B1 Reach = 1 RS = 0.622
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B1 Reach = 1 RS = 0.542
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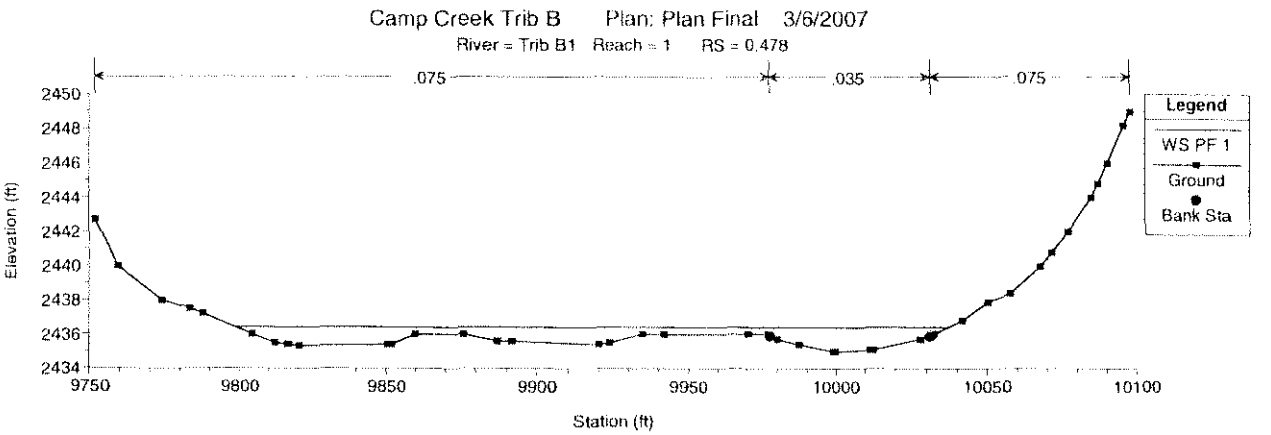
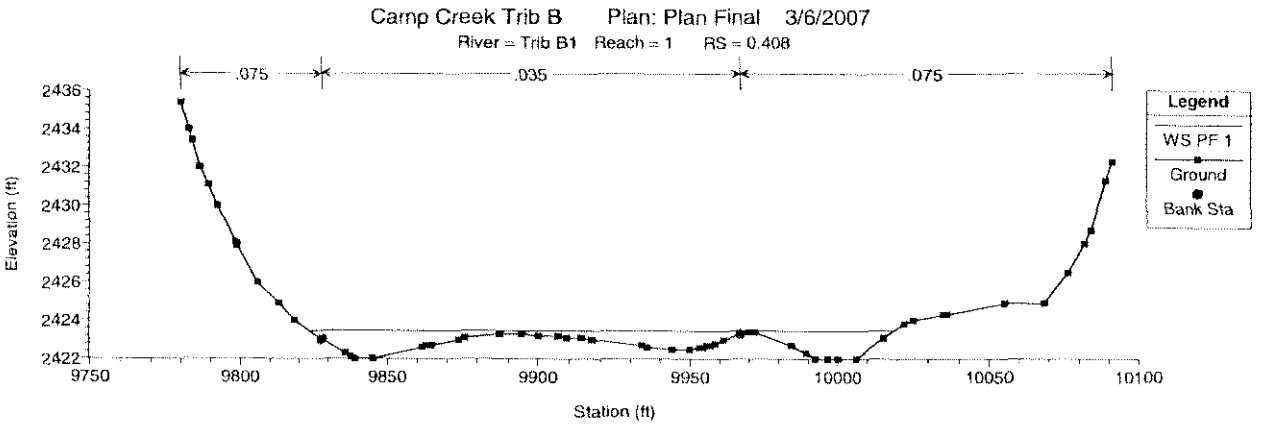
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B1 Reach = 1 RS = 0.478
.075
.035
.075
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B1 Reach = 1 RS = 0.408
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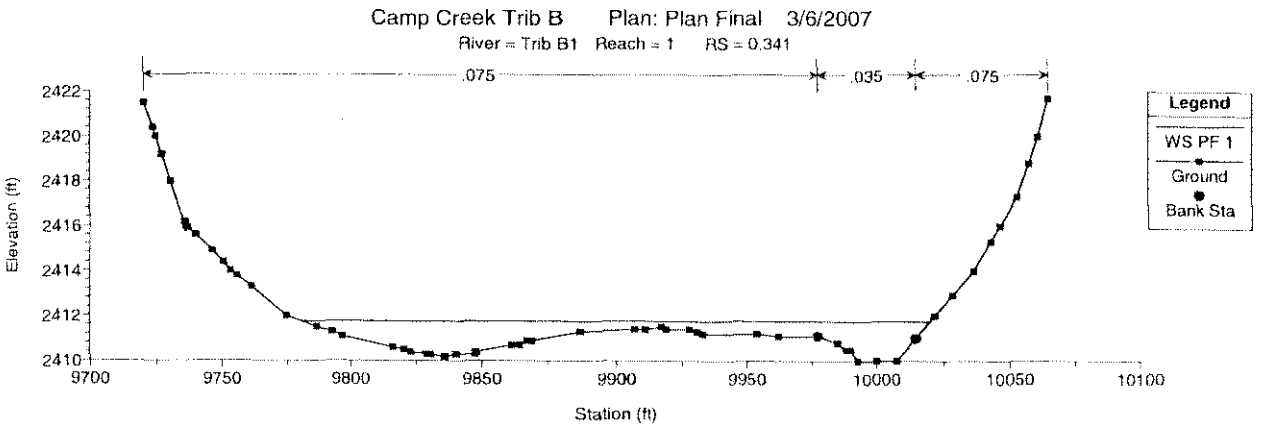
.035
.075
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B1 Reach = 1 RS = 0.341
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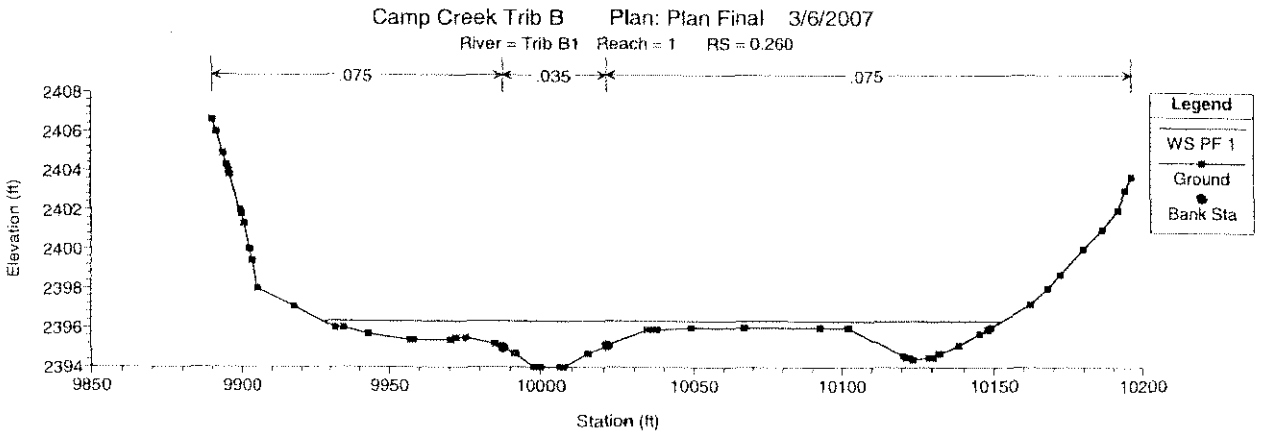
.035
.075
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B1 Reach = 1 RS = 0.260
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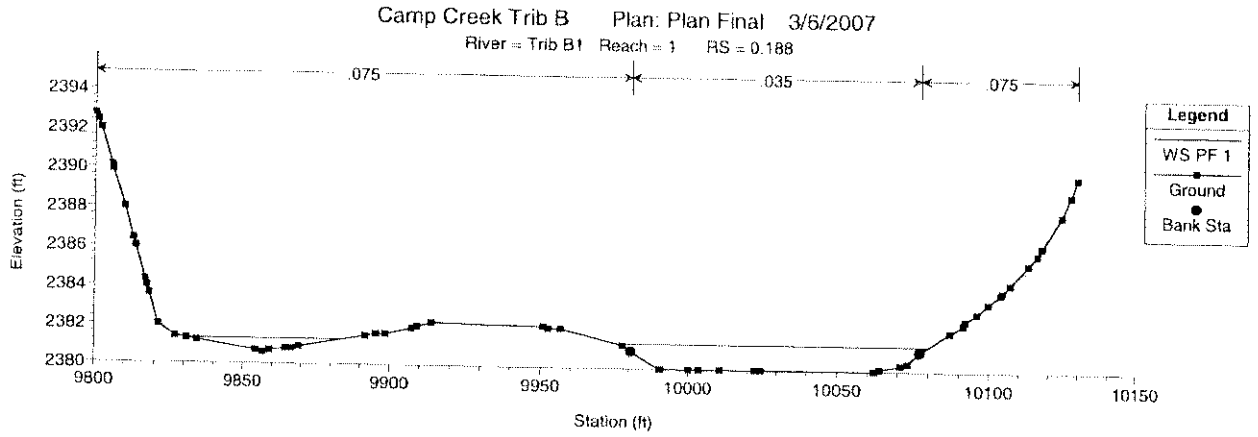
.035
.075
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B1 Reach = 1 RS = 0.188
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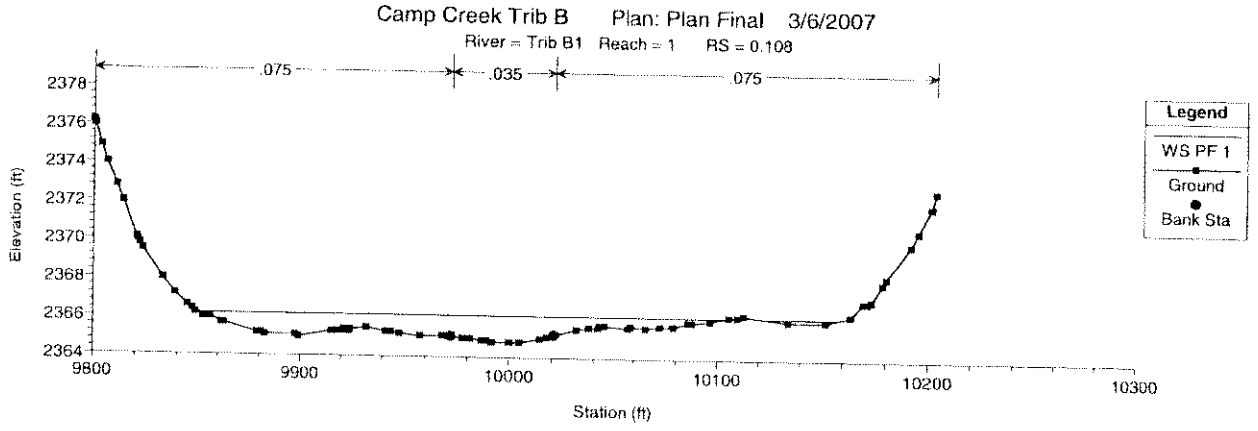
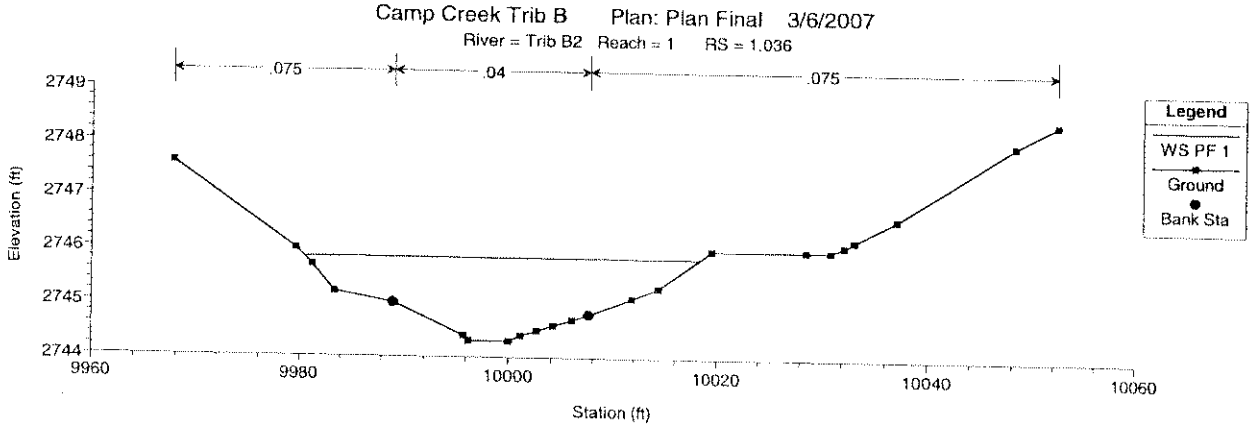
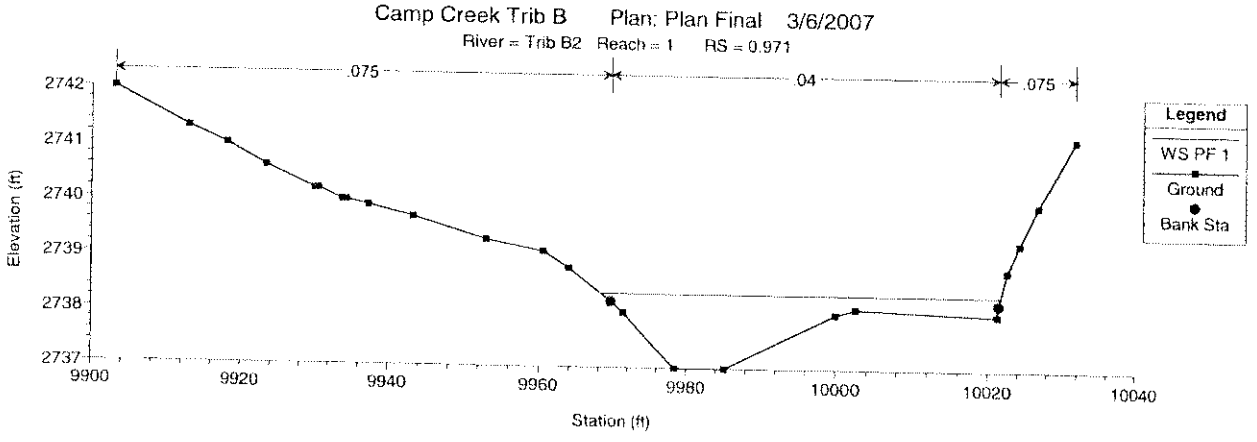
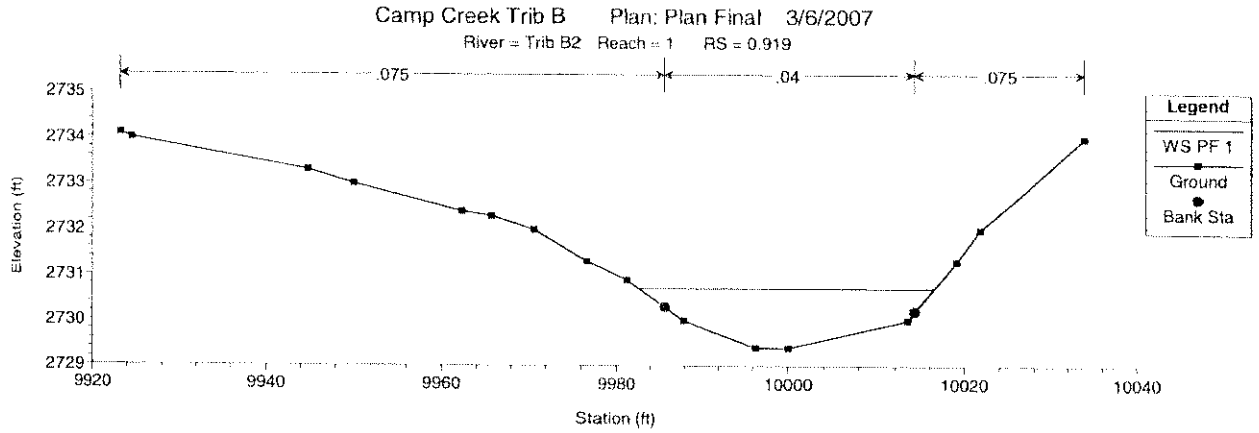
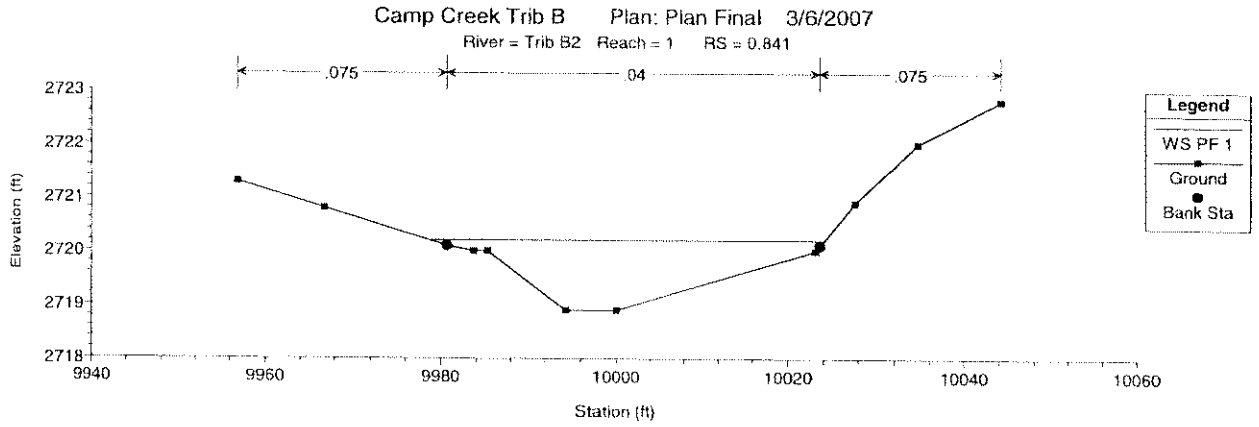
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

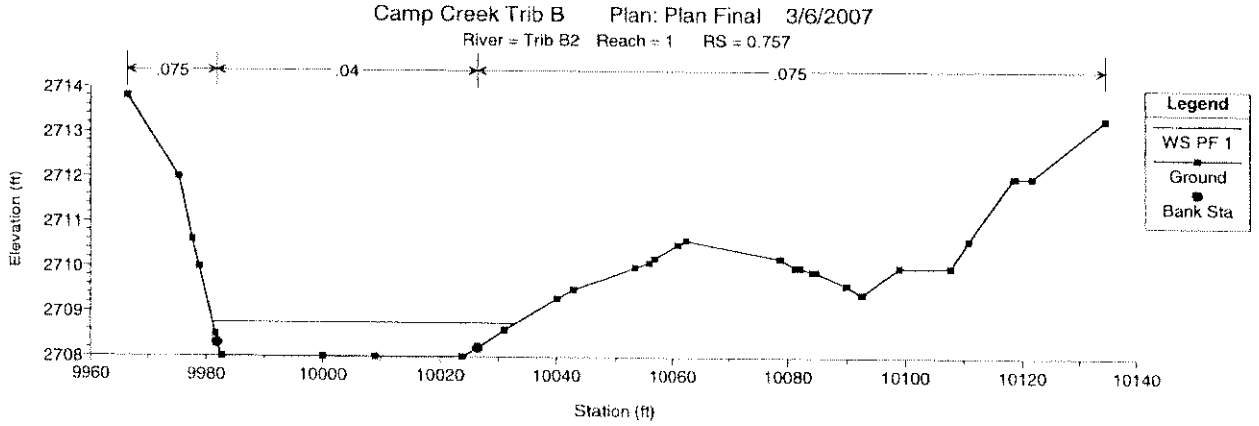

Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B1 Reach = 1 RS = 0.108
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

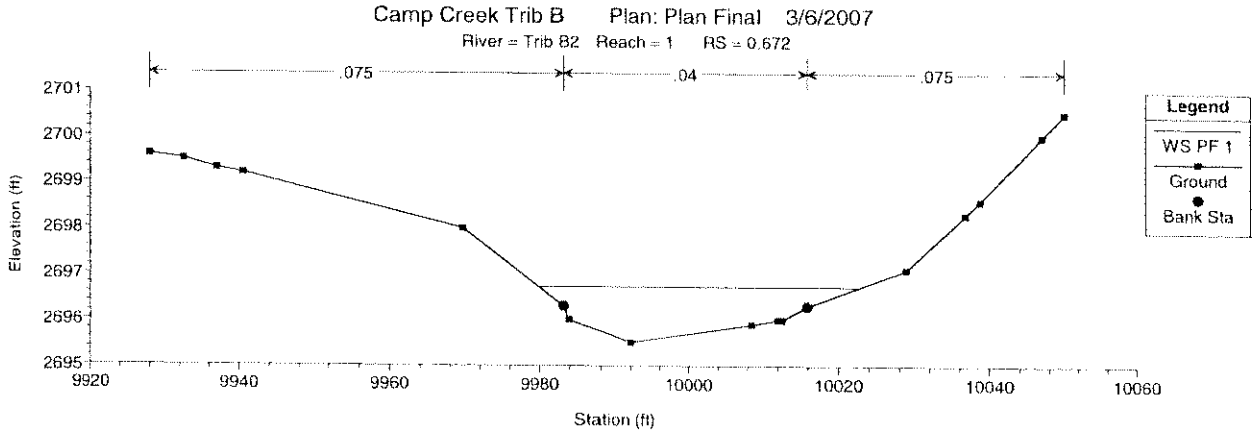

Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B2 Reach = 1 RS = 1.036
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

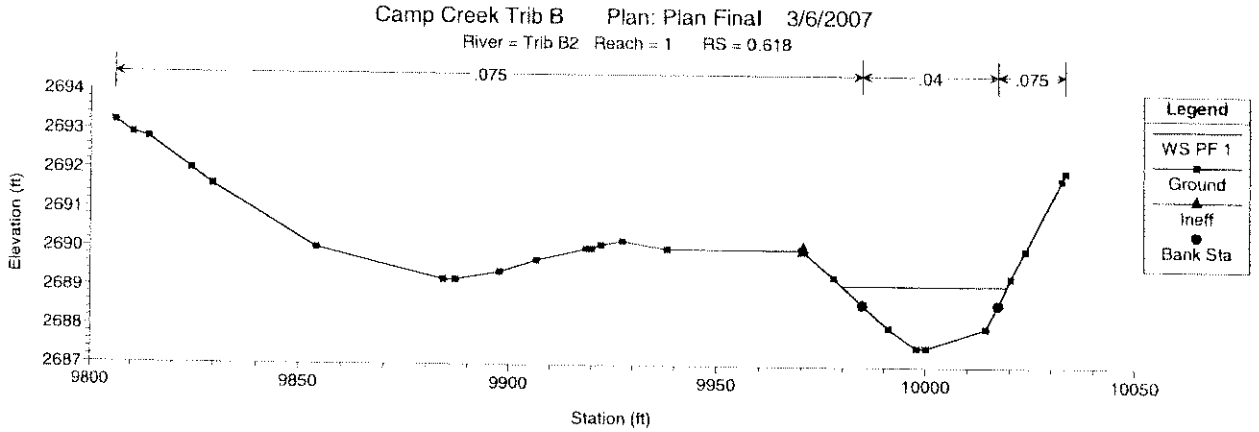

Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B2 Reach = 1 RS = 0.971
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

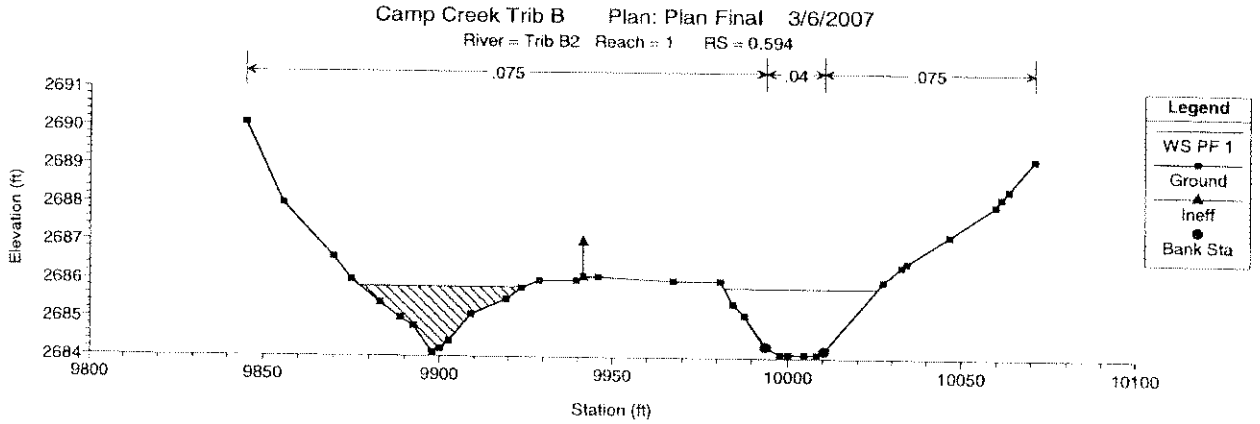

Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B2 Reach = 1 RS = 0.919
.075
.04
.075
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

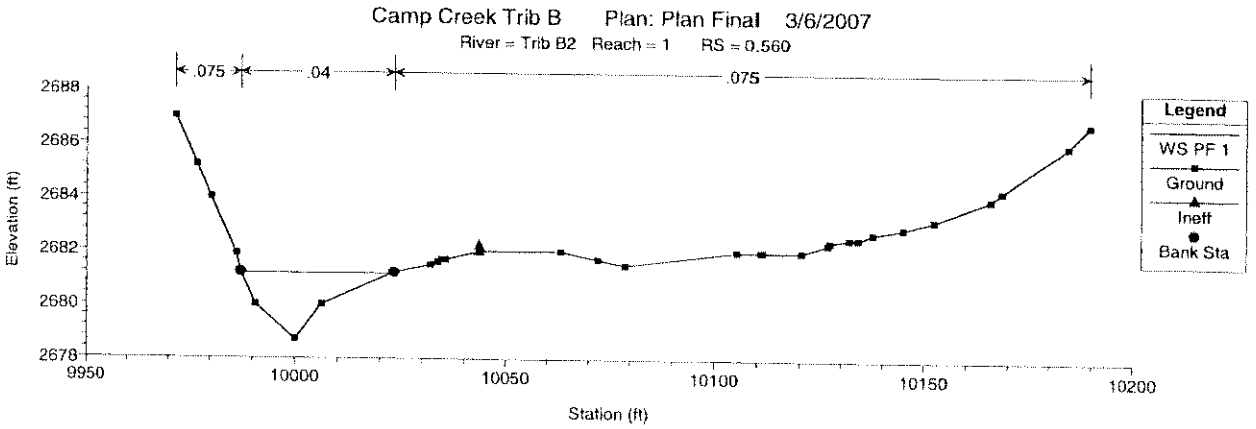

Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B2 Reach = 1 RS = 0.841
.075
.04
.075
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

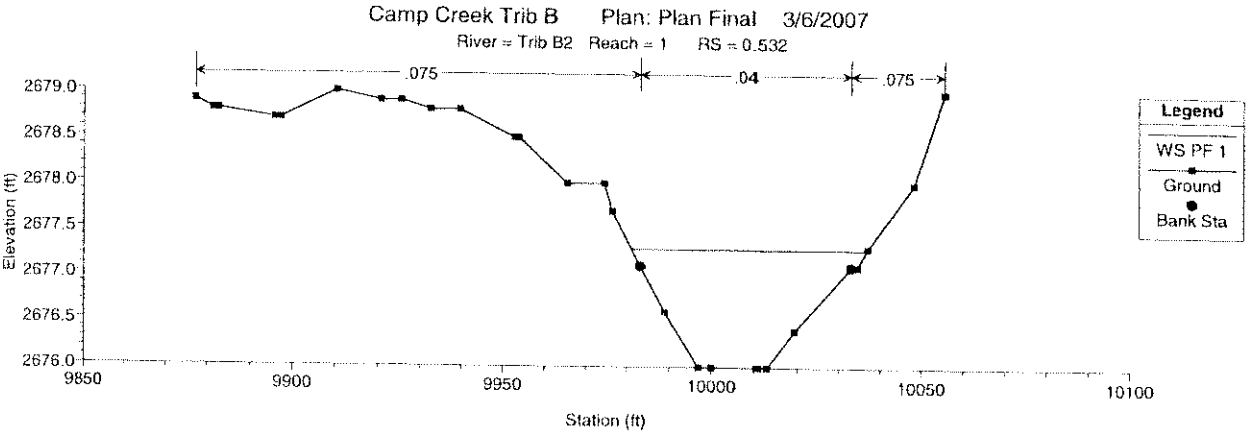

Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B2 Reach = 1 RS = 0.757
.075
.04
.075
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

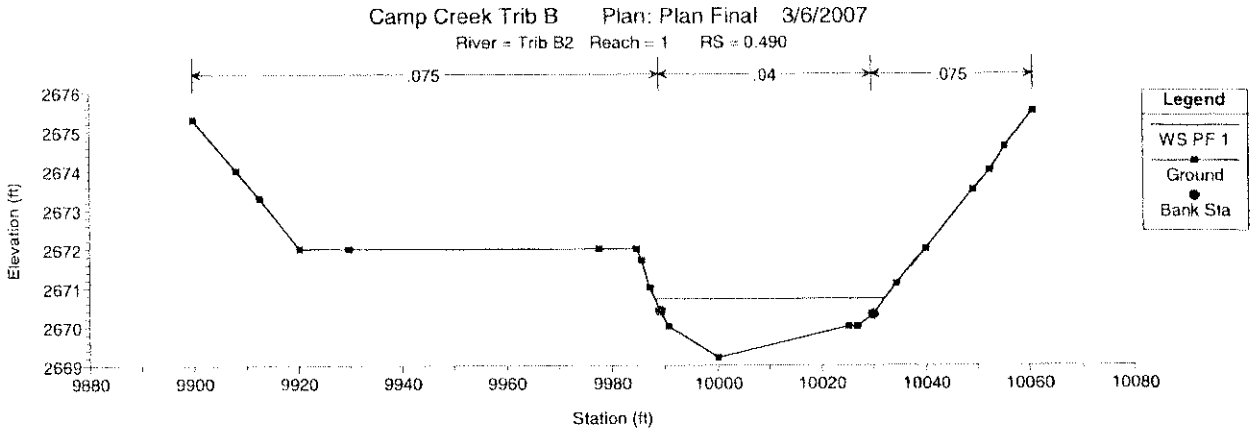

Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B2 Reach = 1 RS = 0.672
.075
.04
.075
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

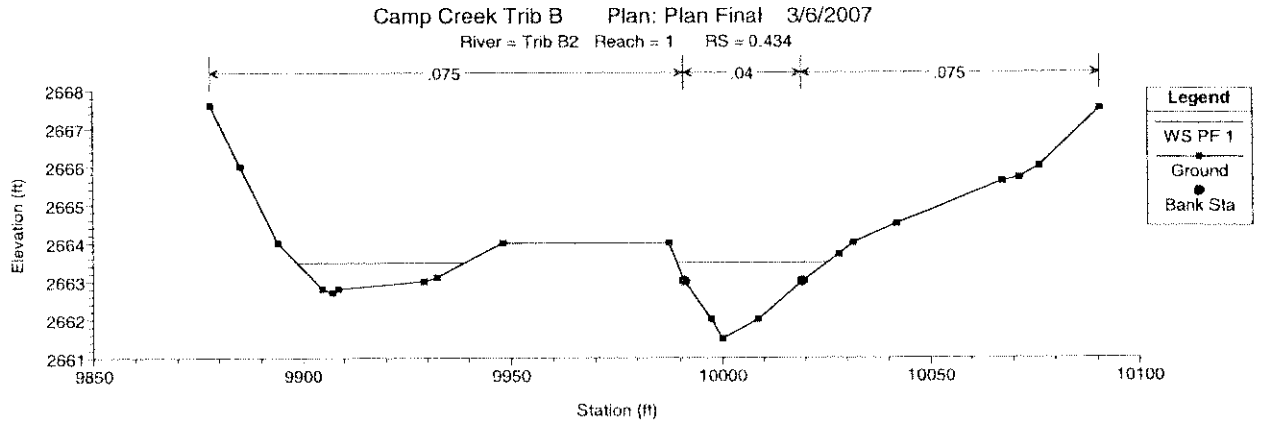

Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B2 Reach = 1 RS = 0.618
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Ineff
Bank Sta

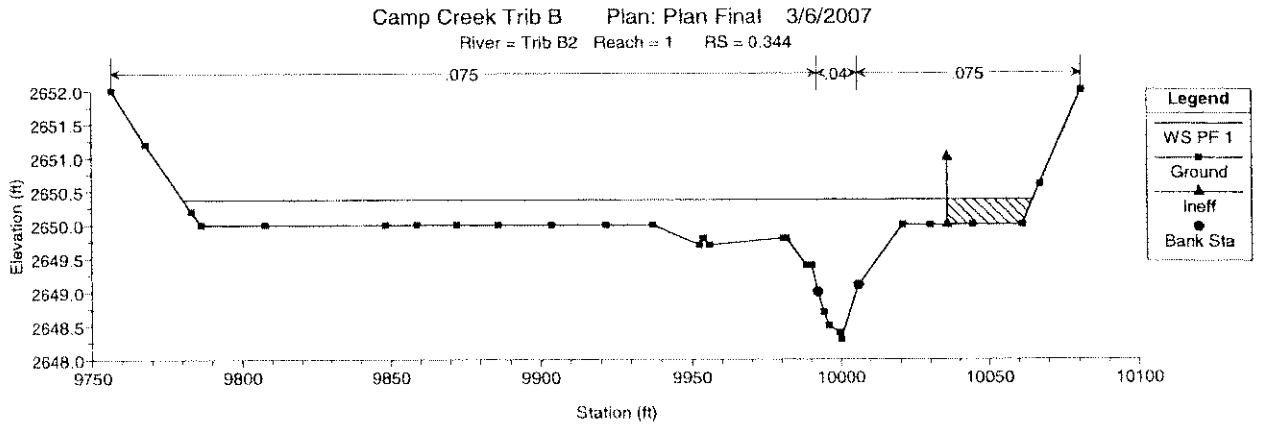

Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B2 Reach = 1 RS = 0.594
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Ineff
Bank Sta

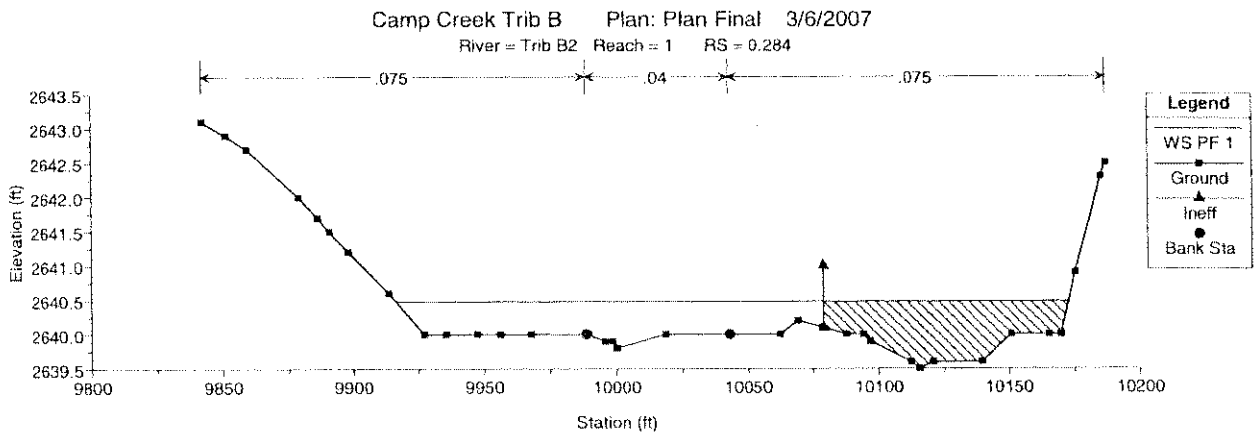

Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B2 Reach = 1 RS = 0.560
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Ineff
Bank Sta

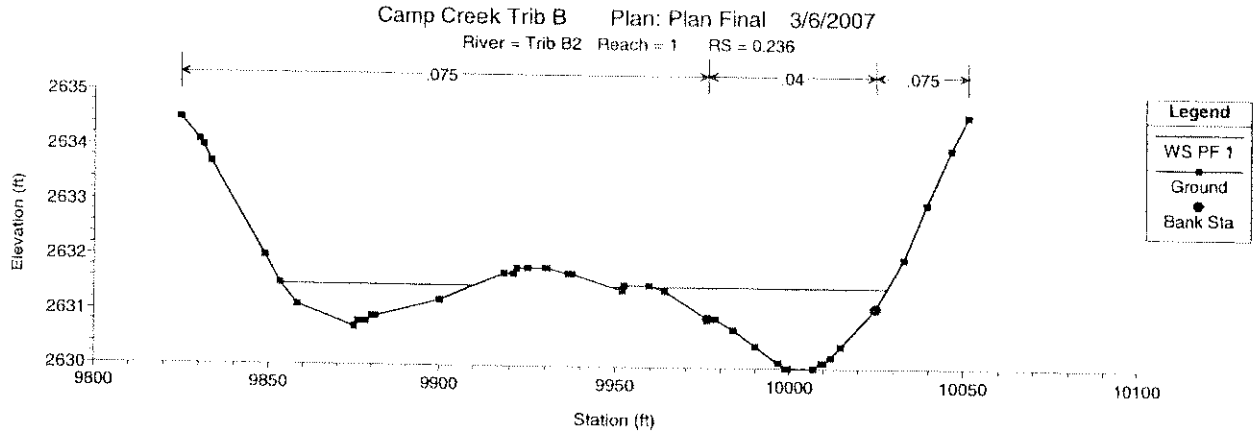

Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B2 Reach = 1 RS = 0.532
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

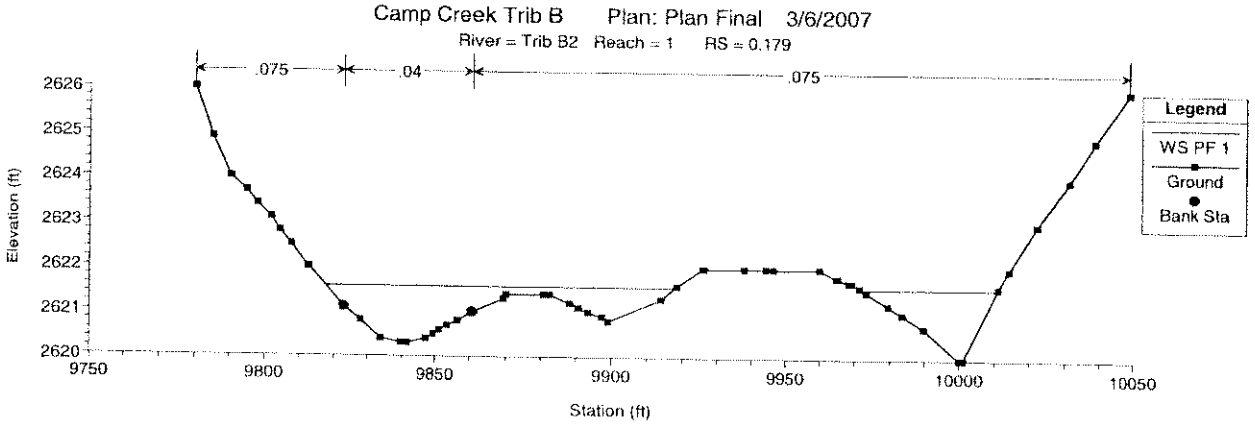

Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B2 Reach = 1 RS = 0.490
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

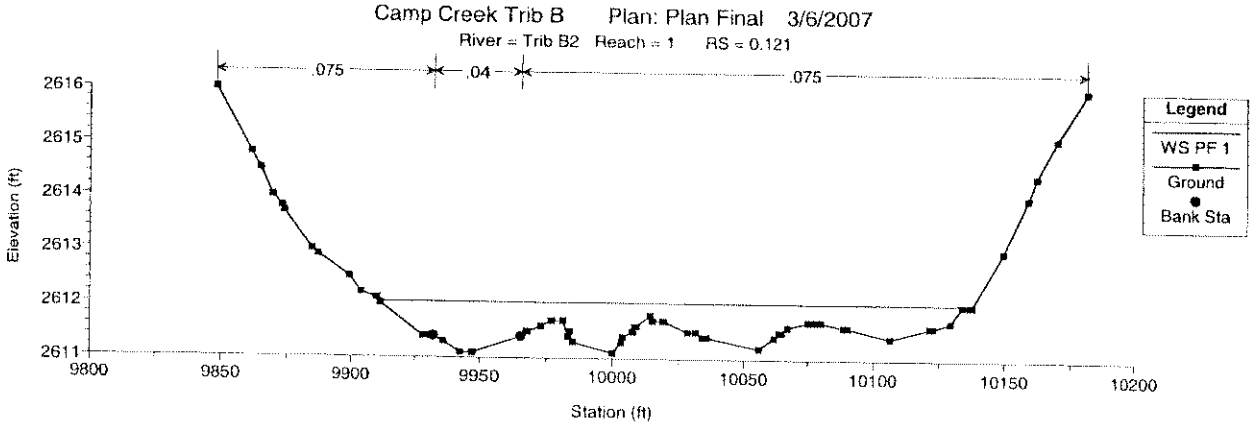

Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B2 Reach = 1 RS = 0.434
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

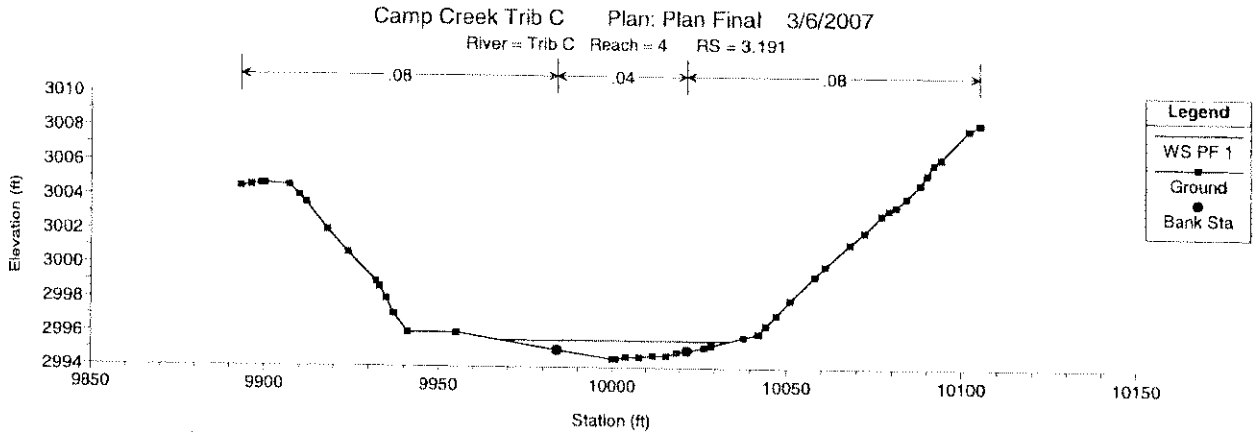

Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B2 Reach = 1 RS = 0.344
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Ineff
Bank Sta

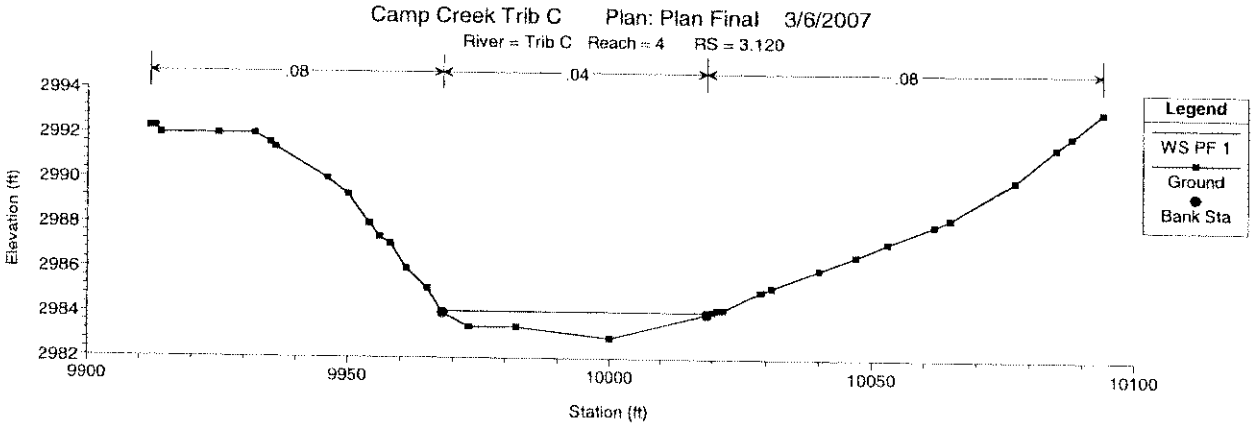

Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B2 Reach = 1 RS = 0.284
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Ineff
Bank Sta

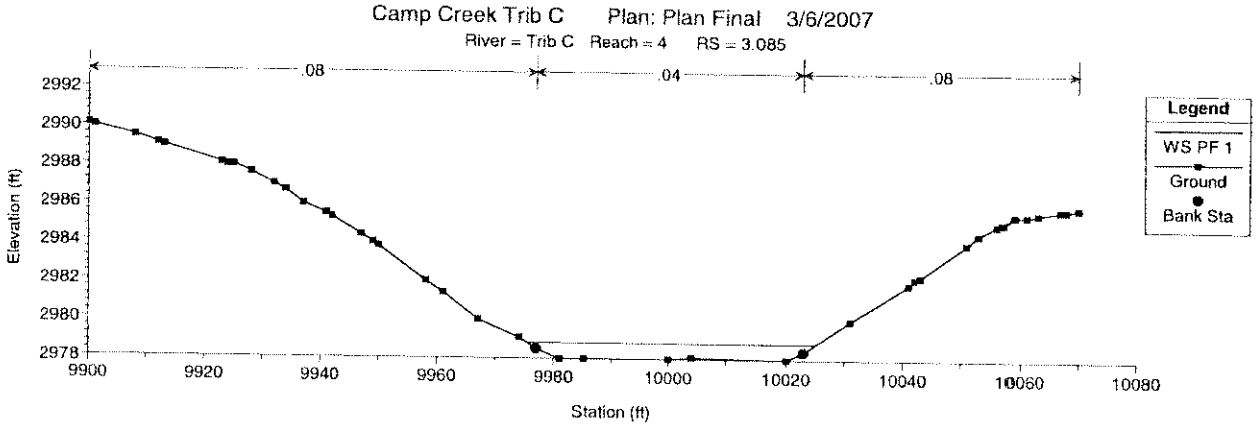

Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B2 Reach = 1 RS = 0.236
.075
.04
.075
Elevation (ft)
2635
2634
2633
2632
2631
2630
9800
9850
9900
9950
10000
10050
10100
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

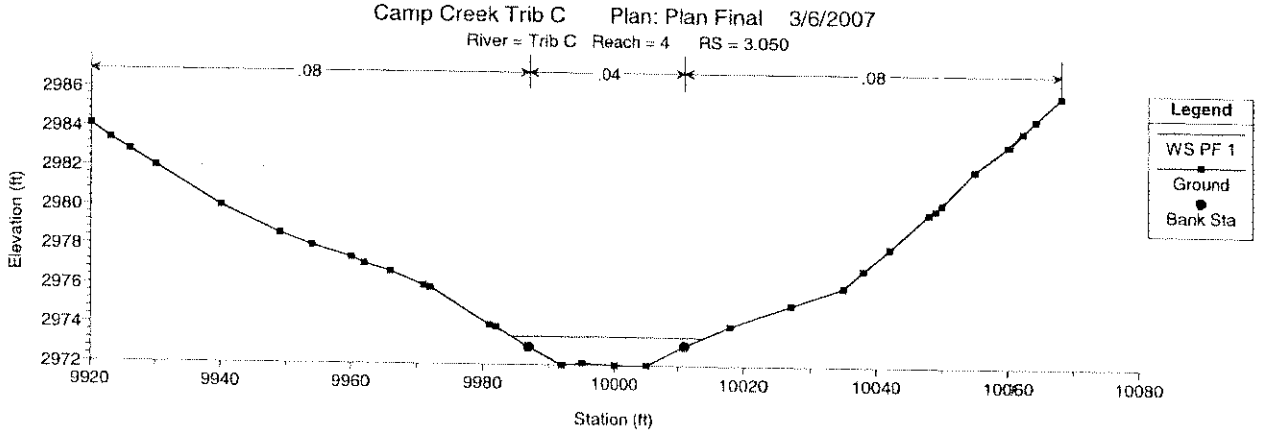

Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B2 Reach = 1 RS = 0.179
.075
.04
.075
Elevation (ft)
2626
2625
2624
2623
2622
2621
2620
9750
9800
9850
9900
9950
10000
10050
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib B Plan: Plan Final 3/6/2007
River = Trib B2 Reach = 1 RS = 0.121
.075
.04
.075
Elevation (ft)
2616
2615
2614
2613
2612
2611
9800
9850
9900
9950
10000
10050
10100
10150
10200
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 4 RS = 3.191
.08
.04
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

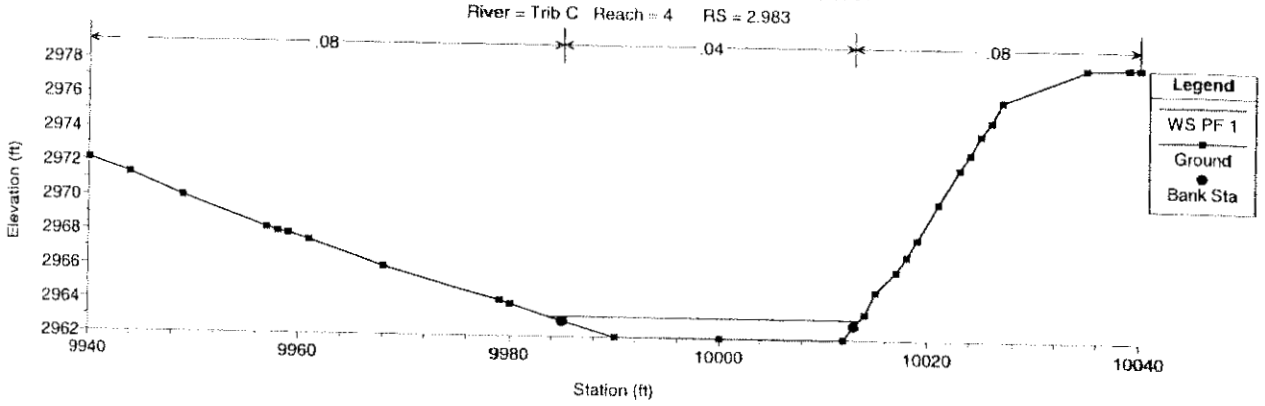

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 4 RS = 3.120
.08
.04
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 4 RS = 3.085
.08
.04
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 4 RS = 3.050
.08
.04
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

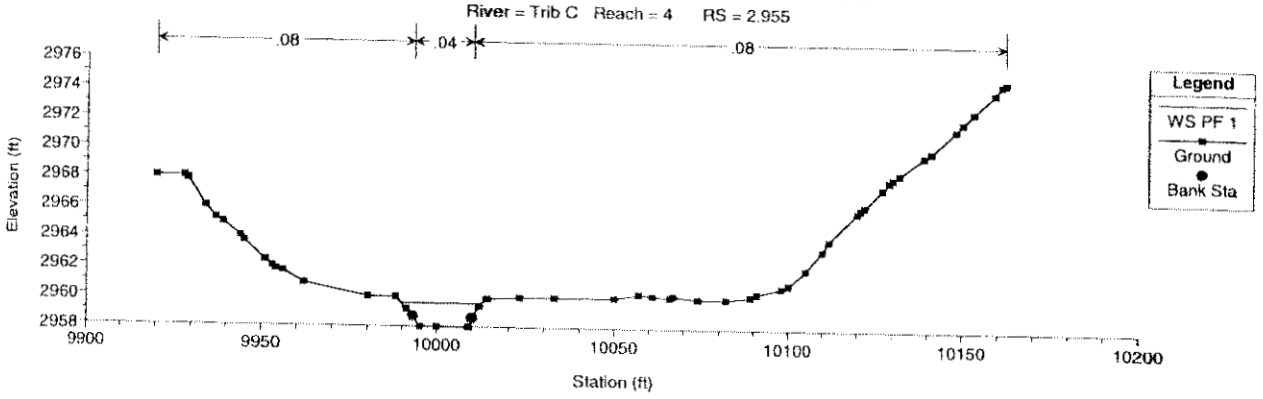
Camp Creek Trib C Plan: Plan Final 3/6/2007

River = Trib C Reach = 4 RS = 2.983



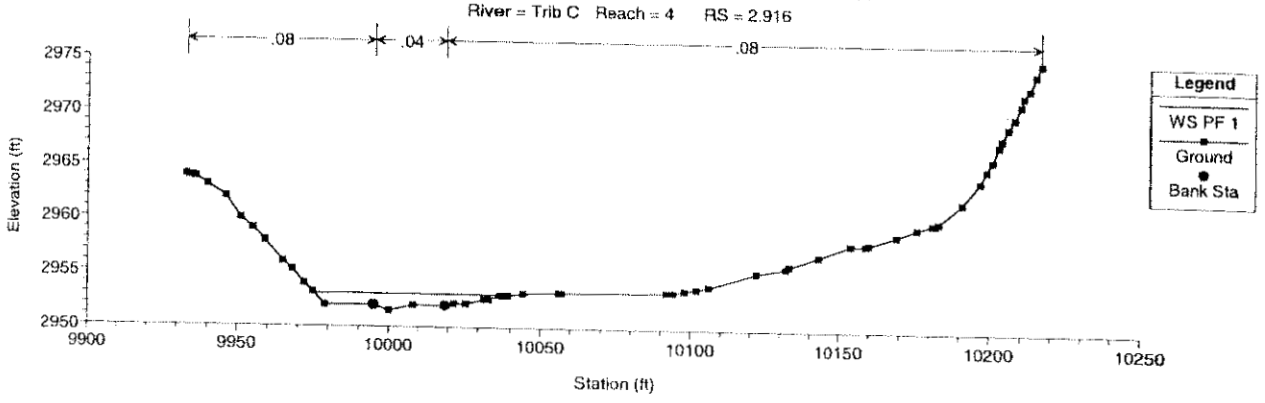
Camp Creek Trib C Plan: Plan Final 3/6/2007

River = Trib C Reach = 4 RS = 2.955



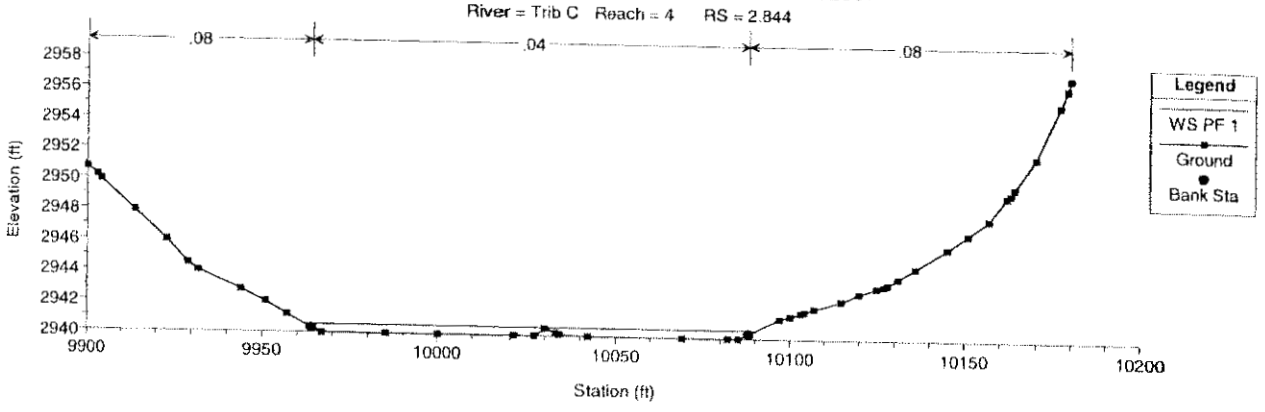
Camp Creek Trib C Plan: Plan Final 3/6/2007

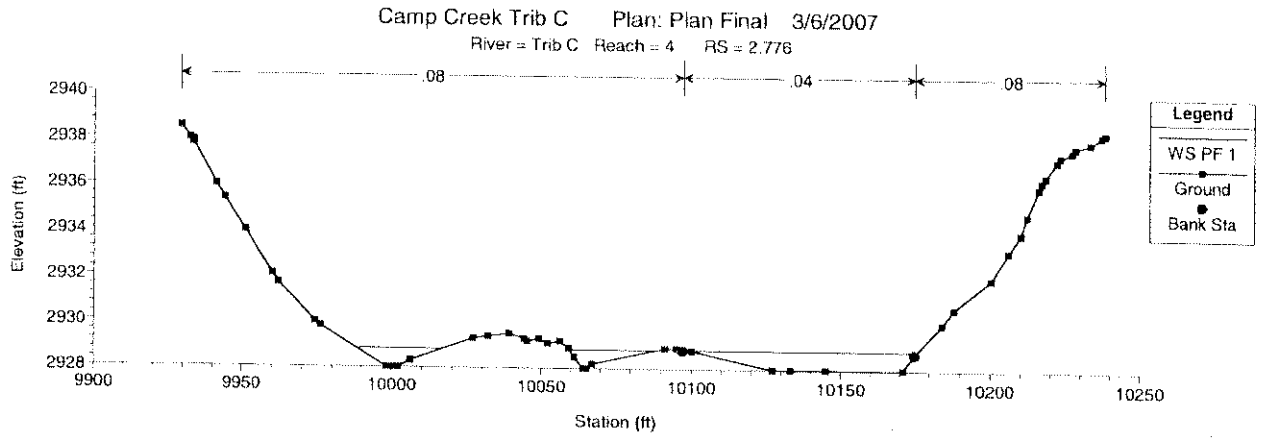
River = Trib C Reach = 4 RS = 2.916



Camp Creek Trib C Plan: Plan Final 3/6/2007

River = Trib C Reach = 4 RS = 2.844




Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 4 RS = 2.776
.08
.04
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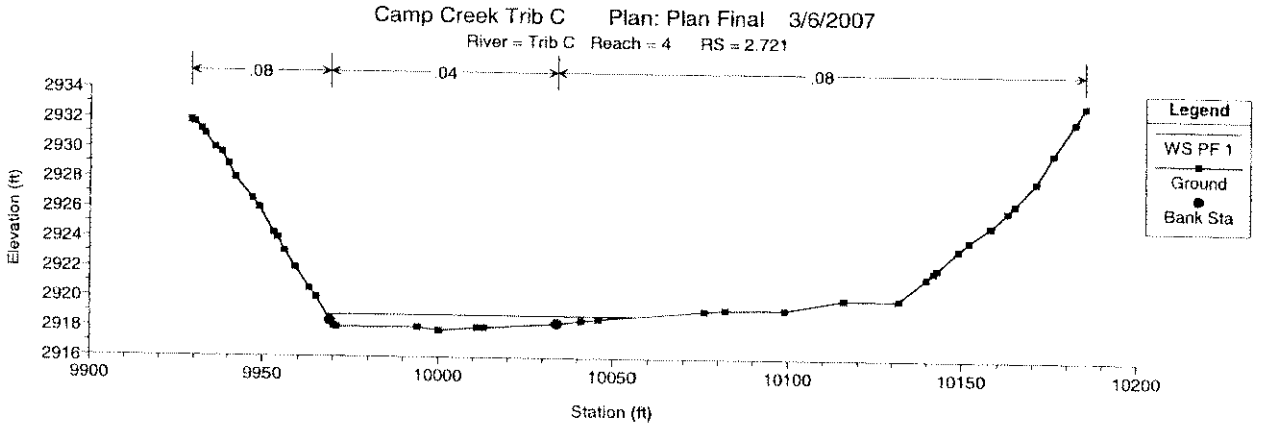
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 4 RS = 2.721
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.04
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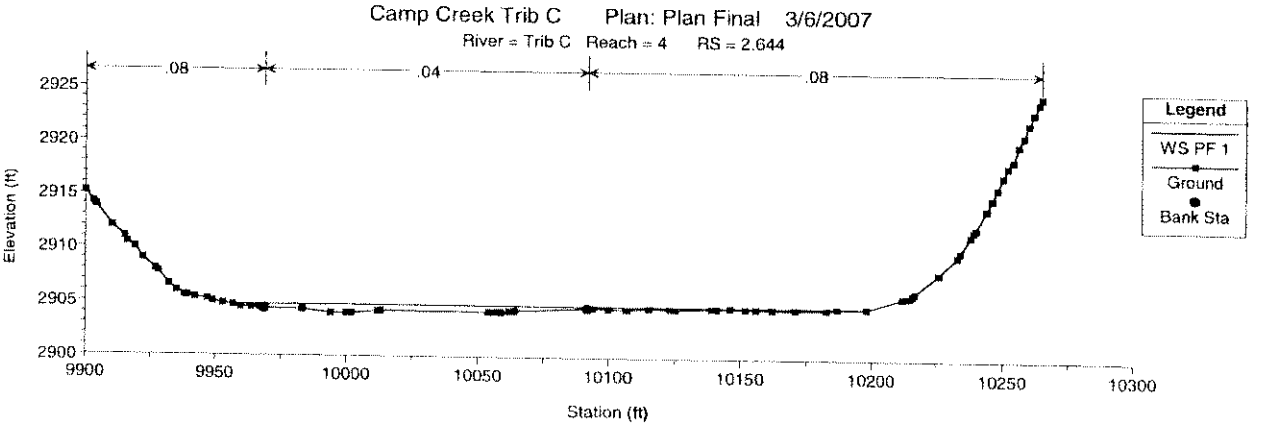
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 4 RS = 2.644
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.04
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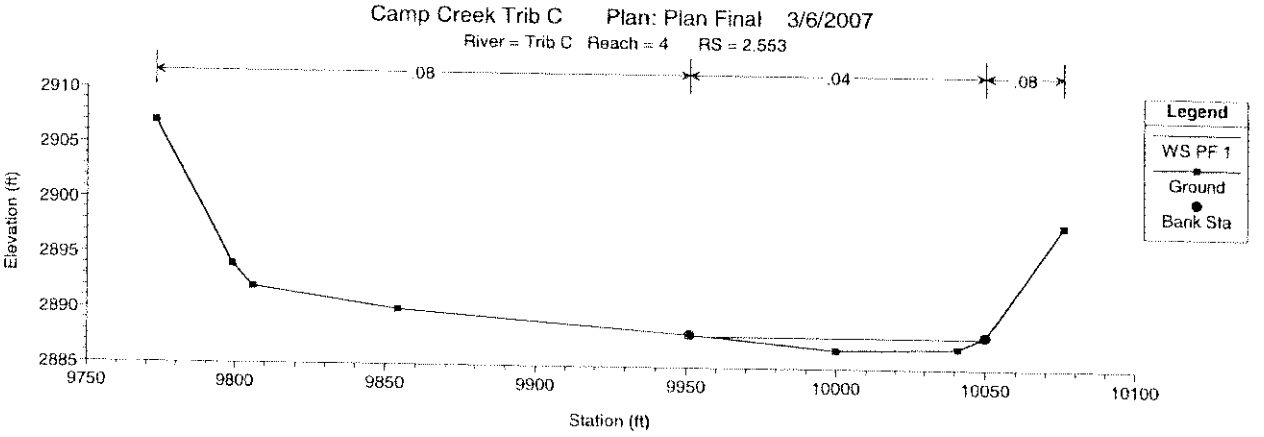
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 4 RS = 2.553
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.04
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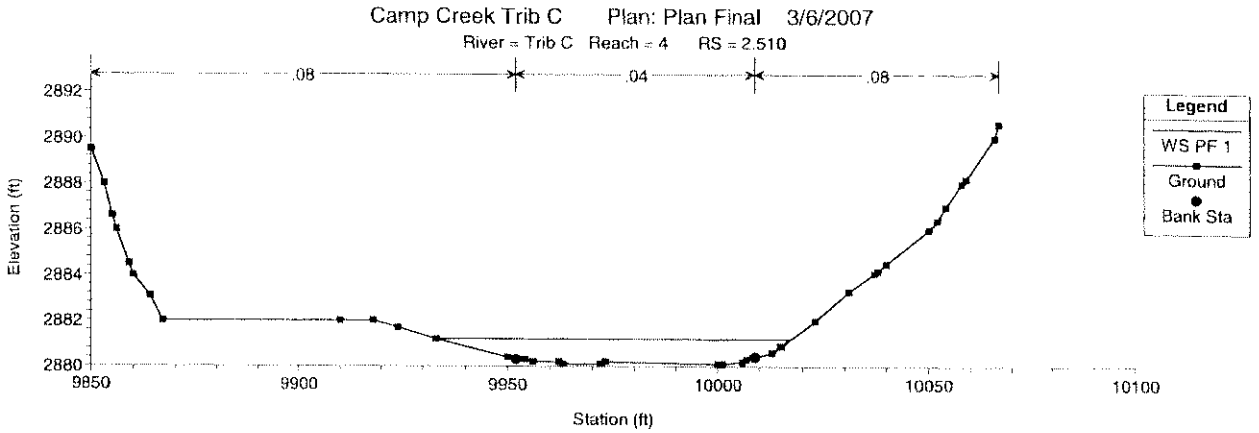
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 4 RS = 2.510
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.04
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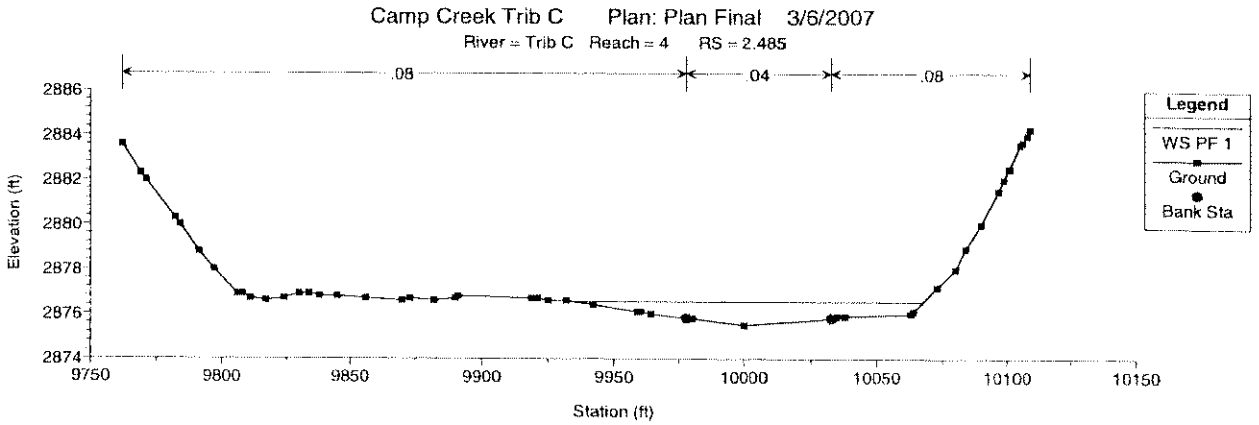
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 4 RS = 2.485
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.04
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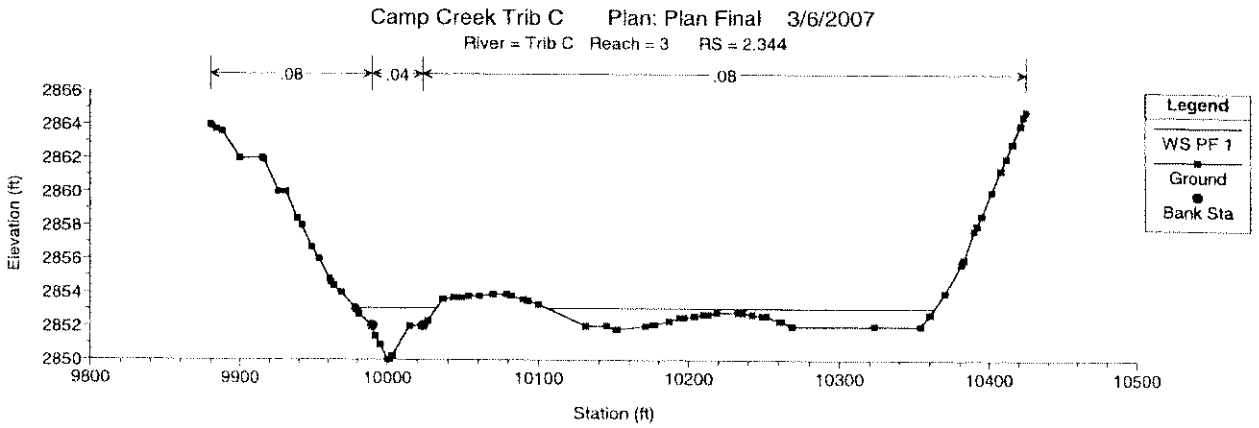
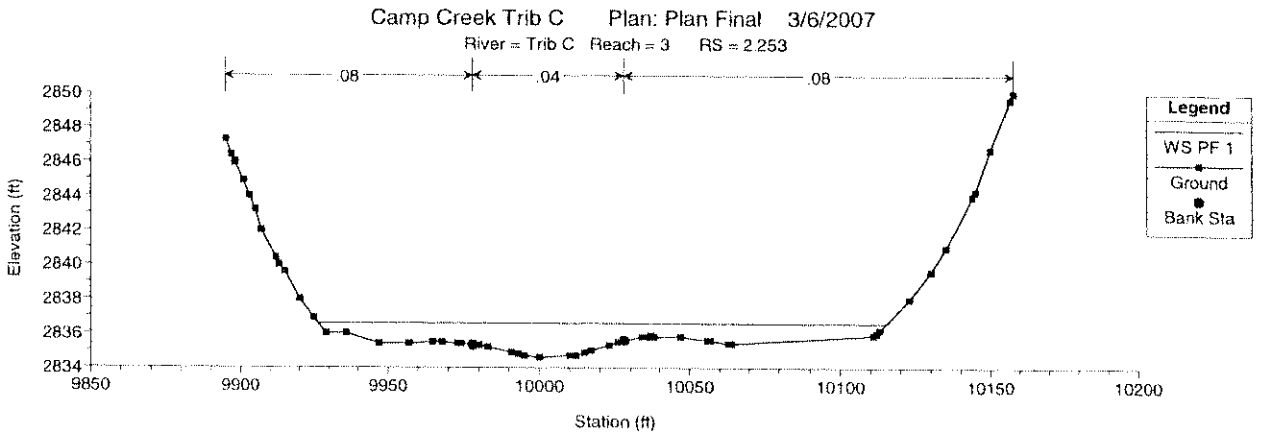
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 3 RS = 2.344
.08
.04
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 3 RS = 2.253
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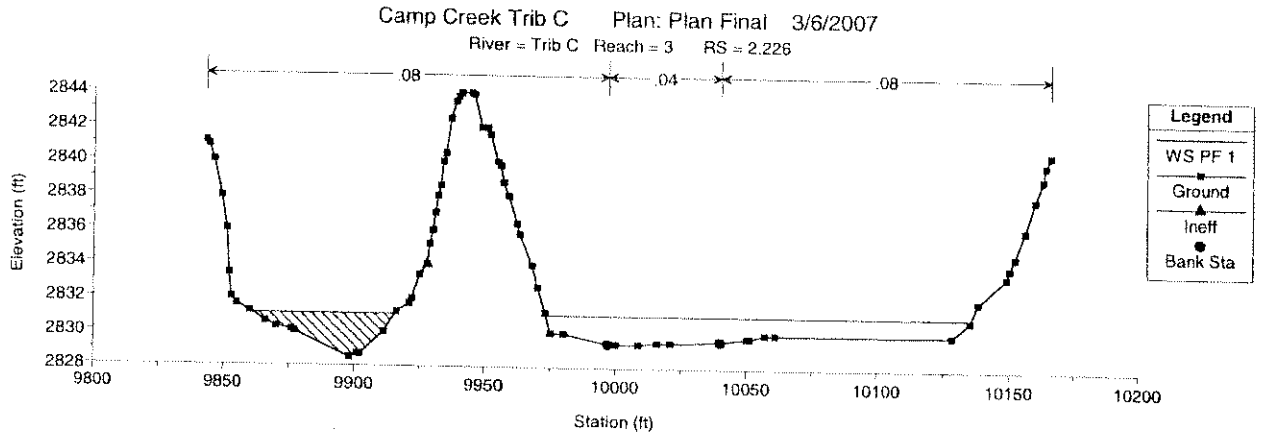
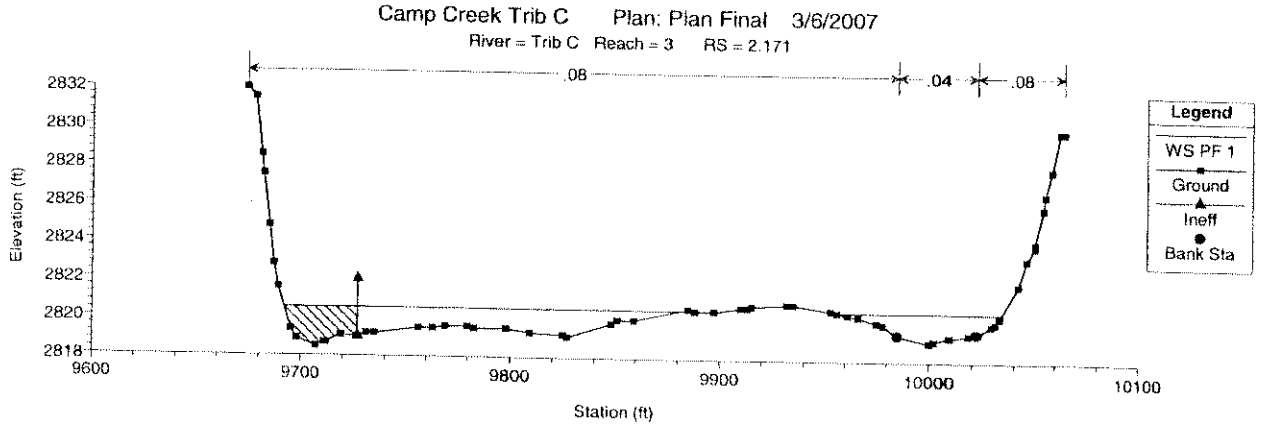
.04
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 3 RS = 2.226
.08
.04
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Ineff
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 3 RS = 2.171
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.04
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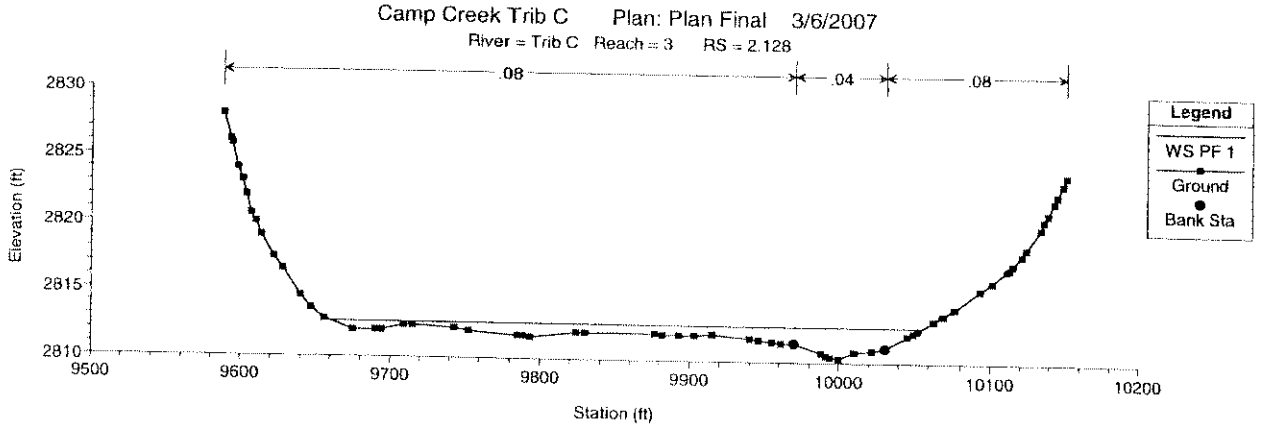
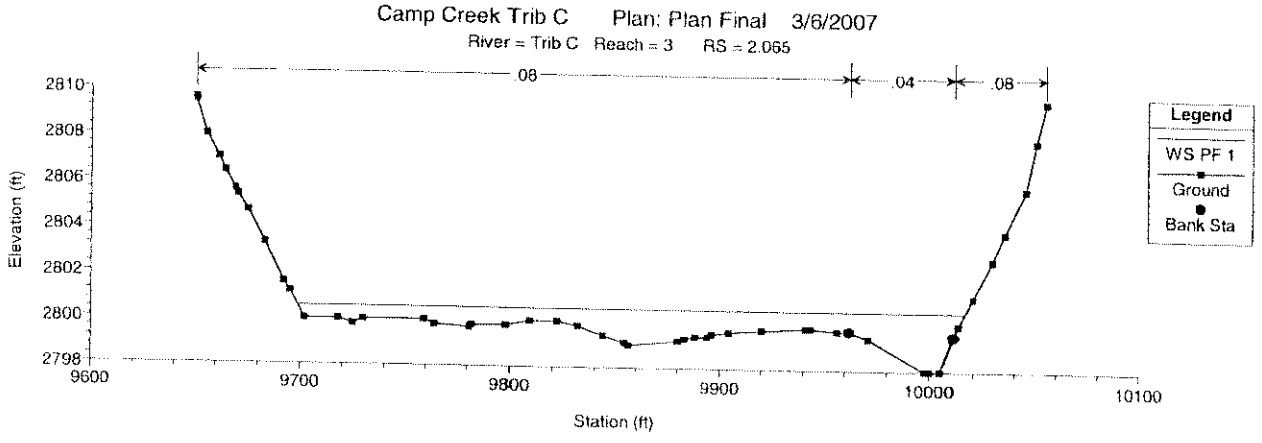
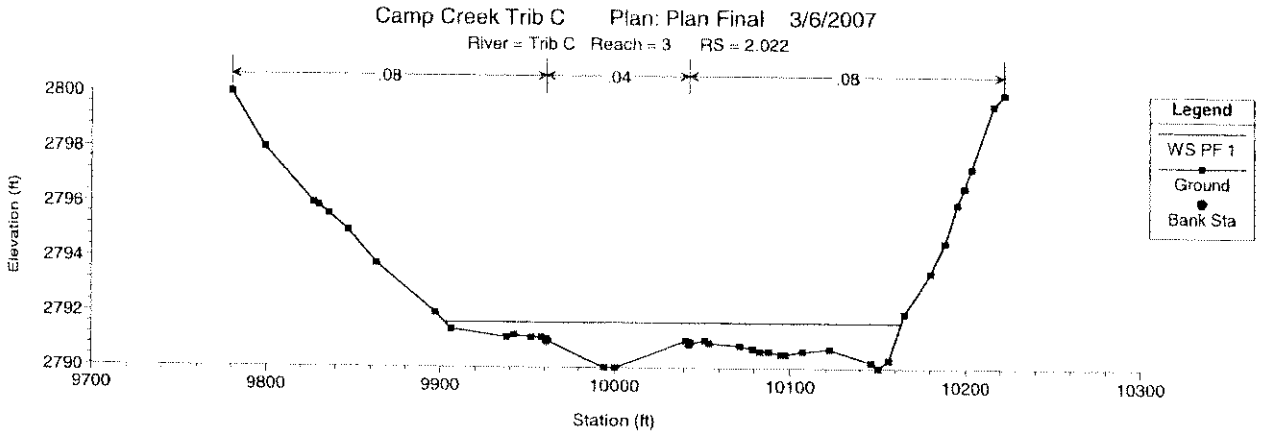
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Ineff
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 3 RS = 2.128
.08
.04
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 3 RS = 2.065
.08
.04
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 3 RS = 2.022
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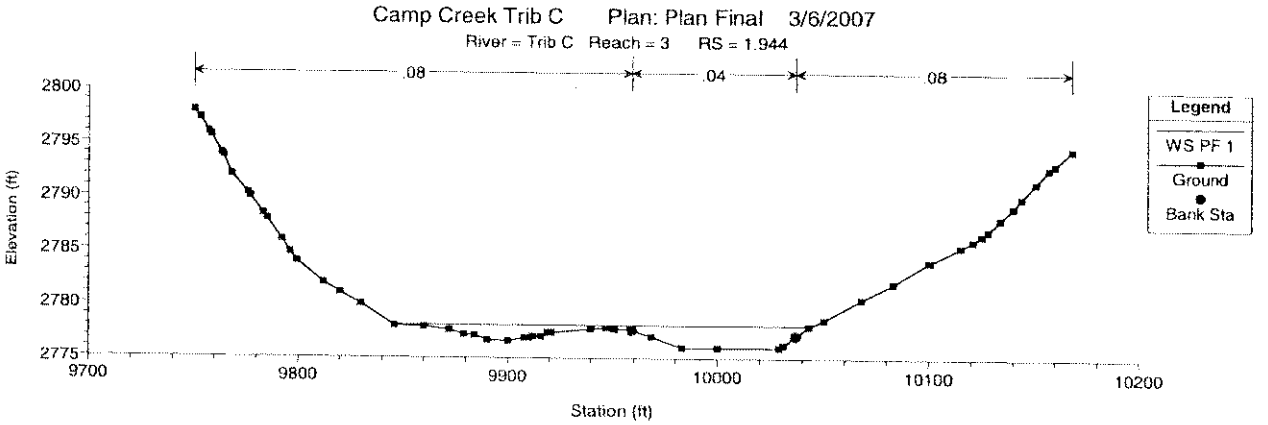
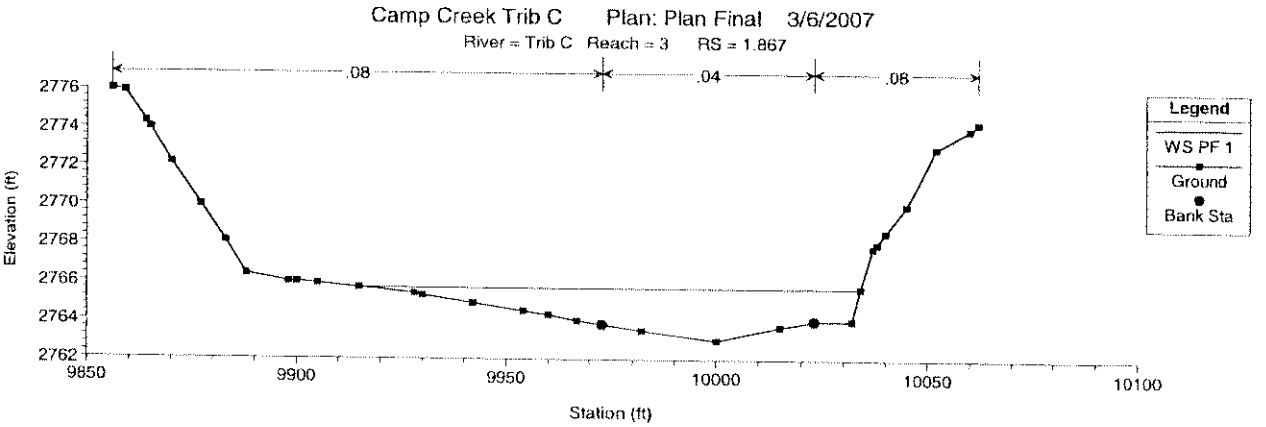
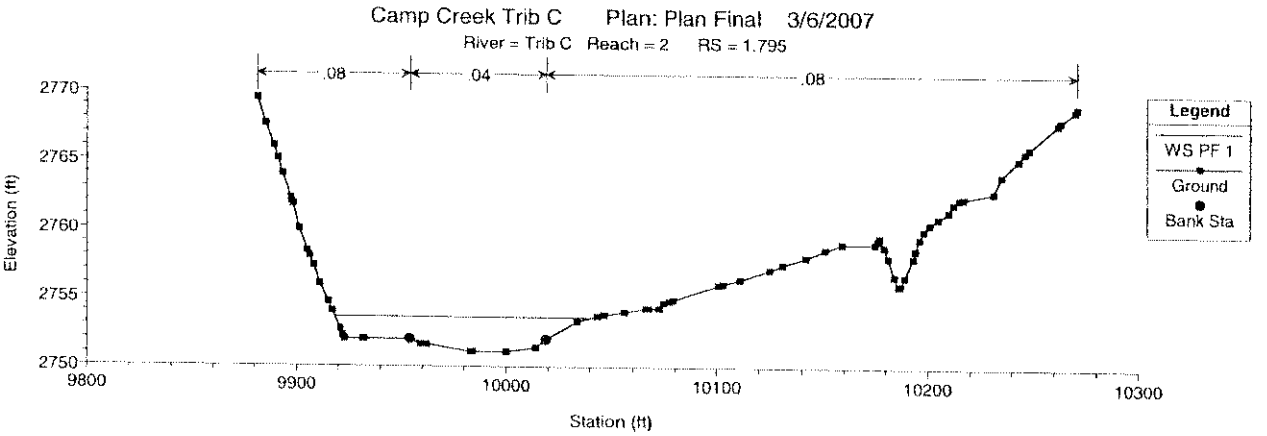
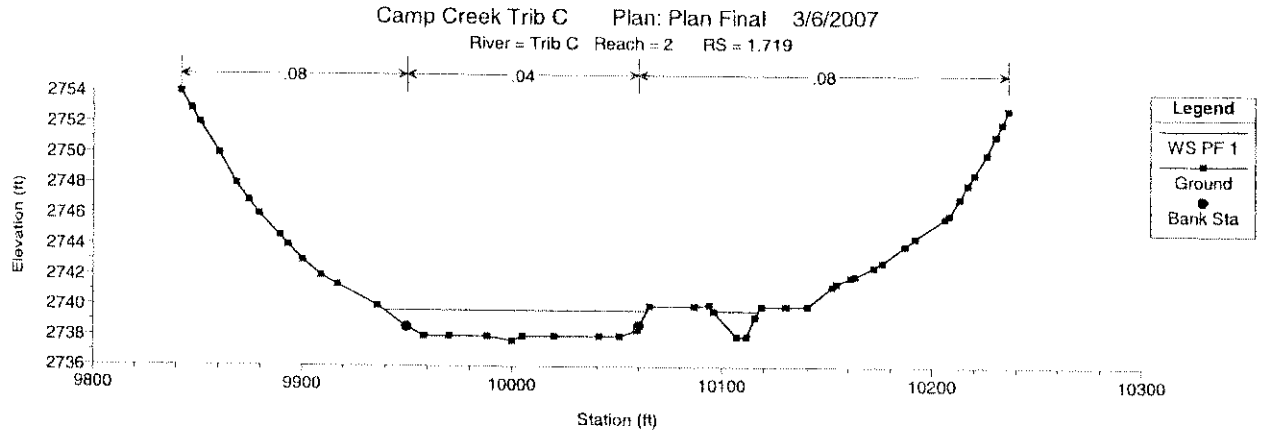
.04
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 3 RS = 1.944
.08
.04
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 3 RS = 1.867
.08
.04
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 2 RS = 1.795
.08
.04
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 2 RS = 1.719
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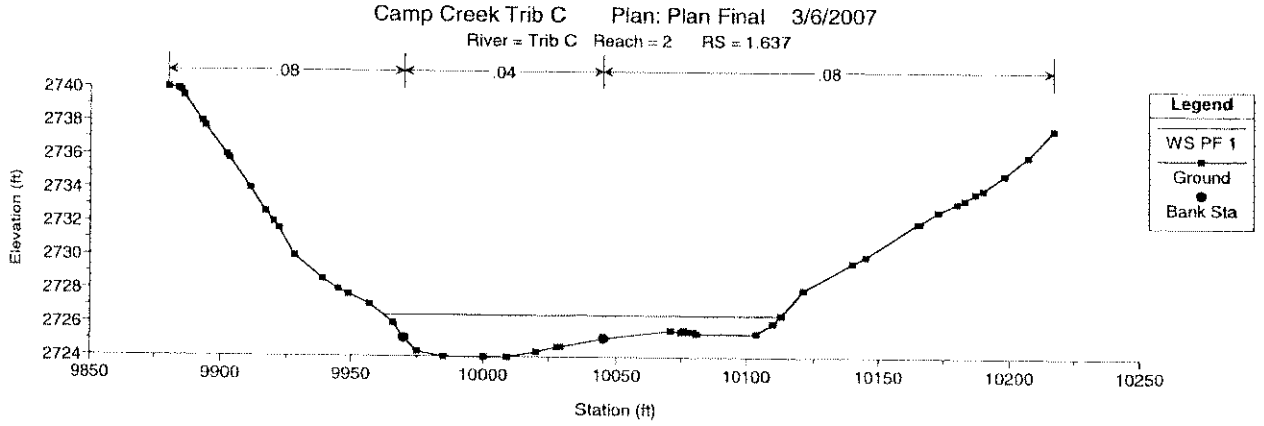
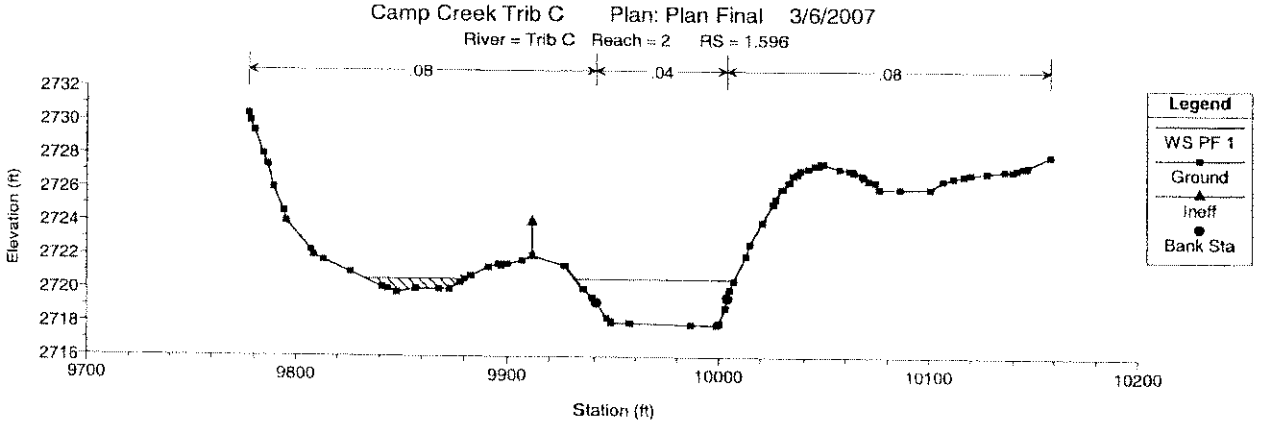
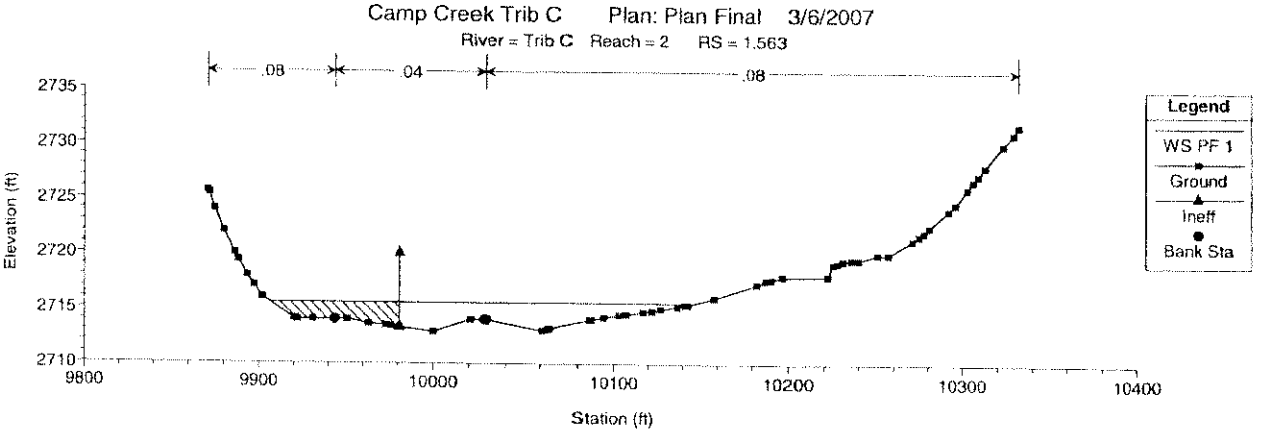
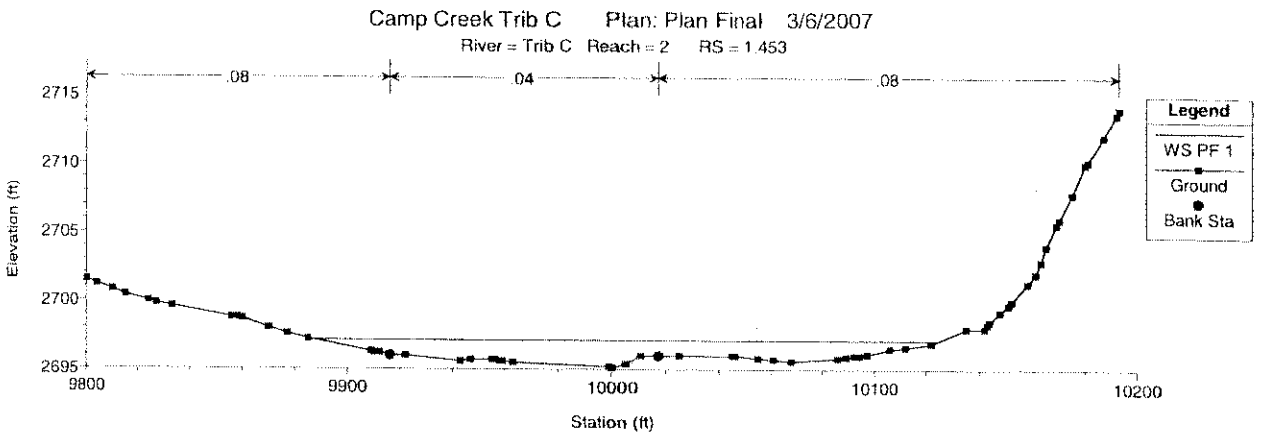
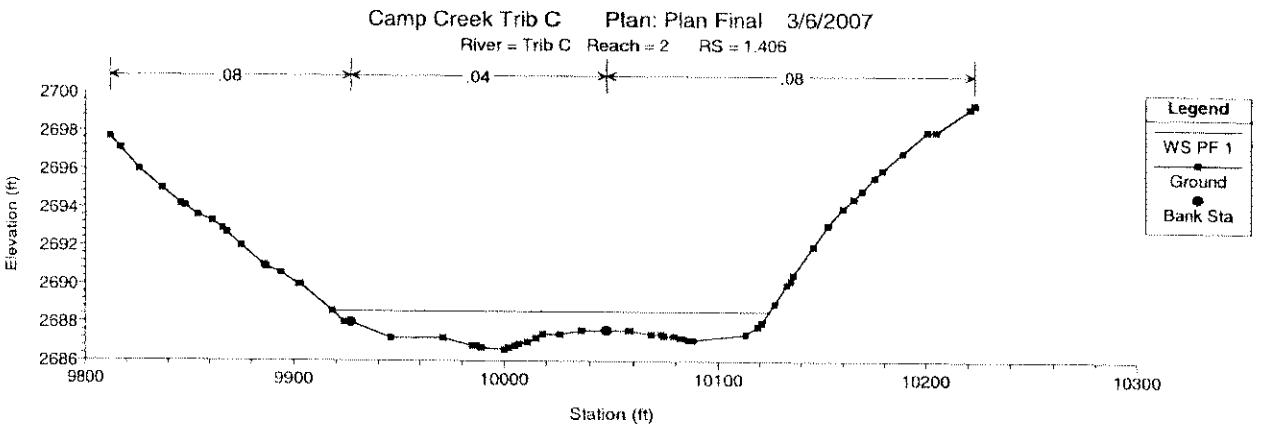
.04
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

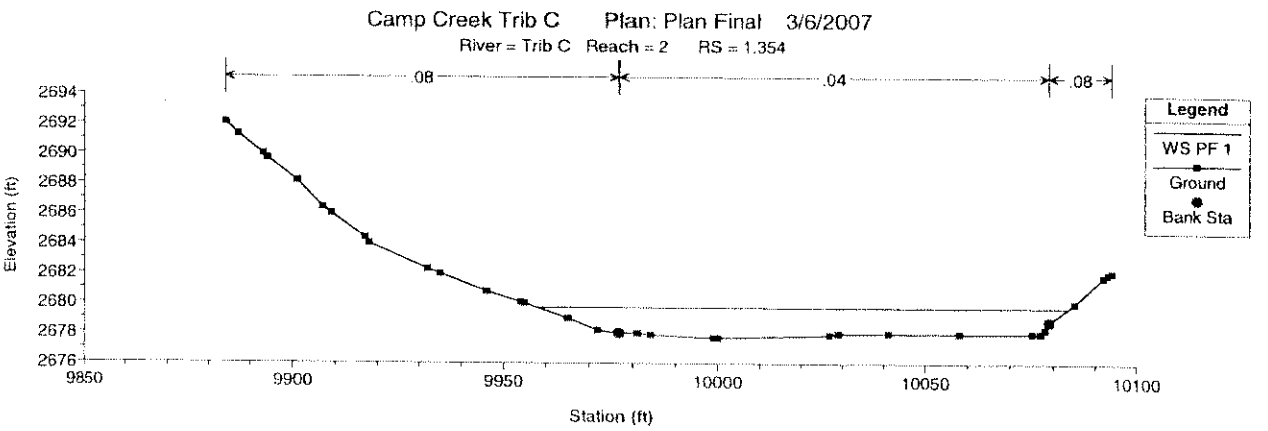

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 2 RS = 1.637
.08
.04
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

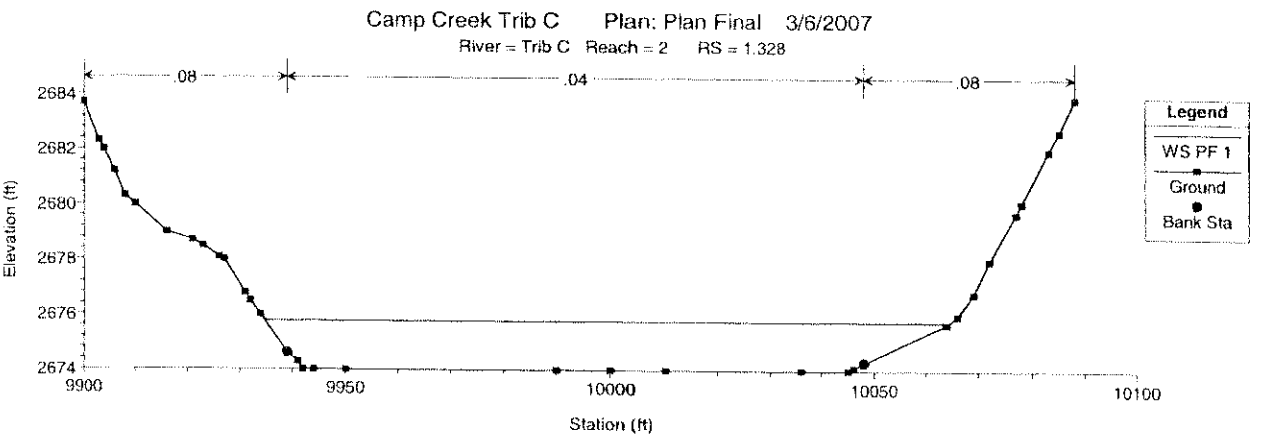

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 2 RS = 1.596
.08
.04
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Ineff
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 2 RS = 1.563
.08
.04
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Ineff
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 2 RS = 1.453
.08
.04
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 2 RS = 1.406
.08
.04
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 2 RS = 1.354
.08
.04
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 2 RS = 1.328
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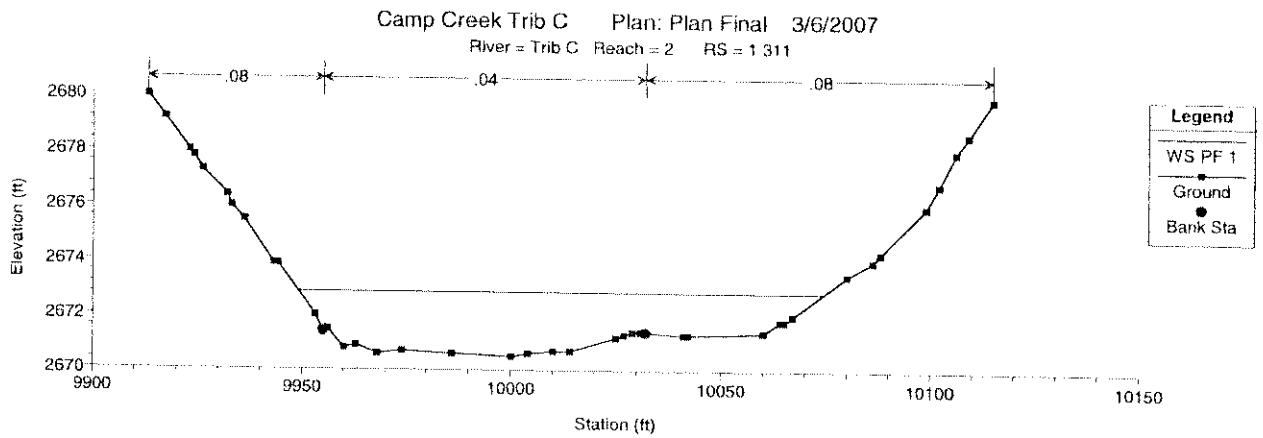
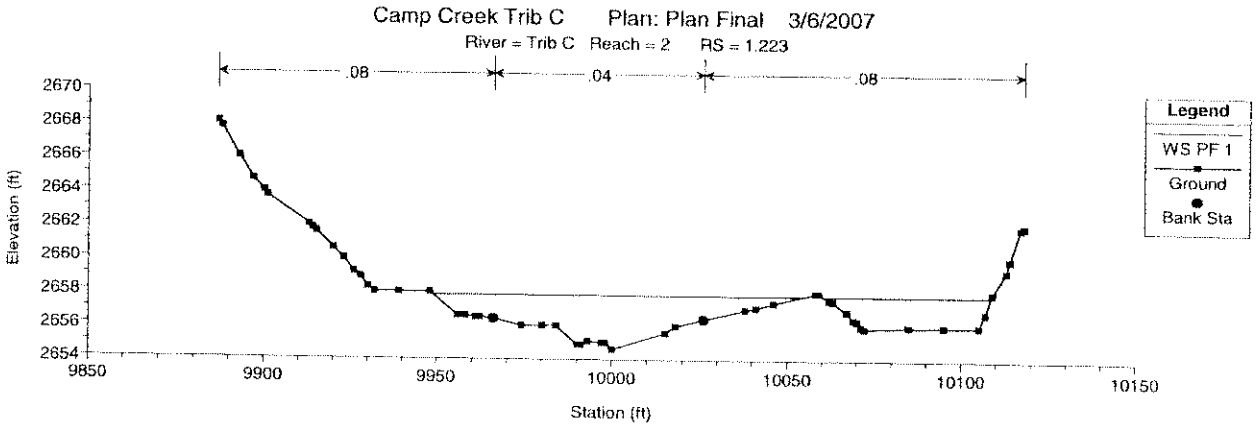
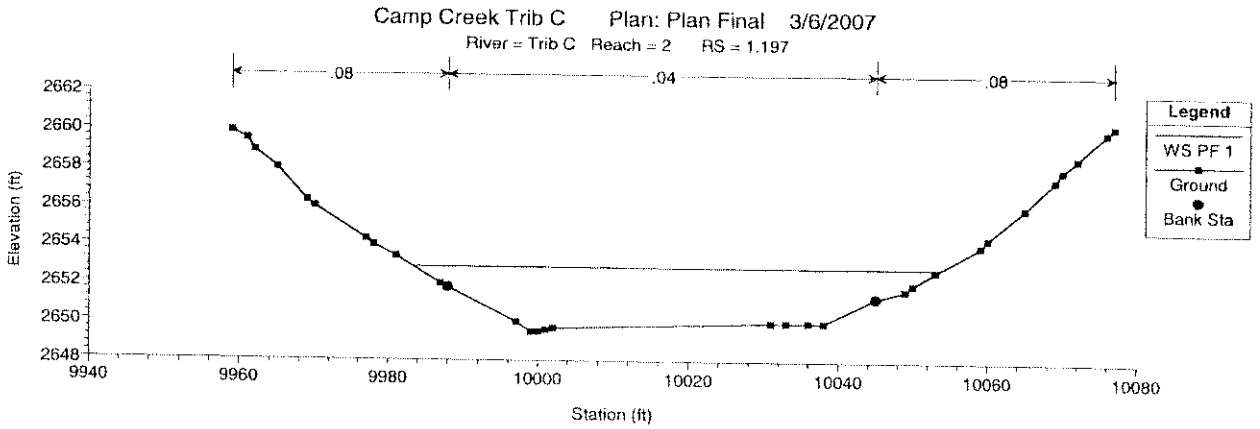
.04
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 2 RS = 1 311
.08
.04
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 2 RS = 1.223
.08
.04
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 2 RS = 1.197
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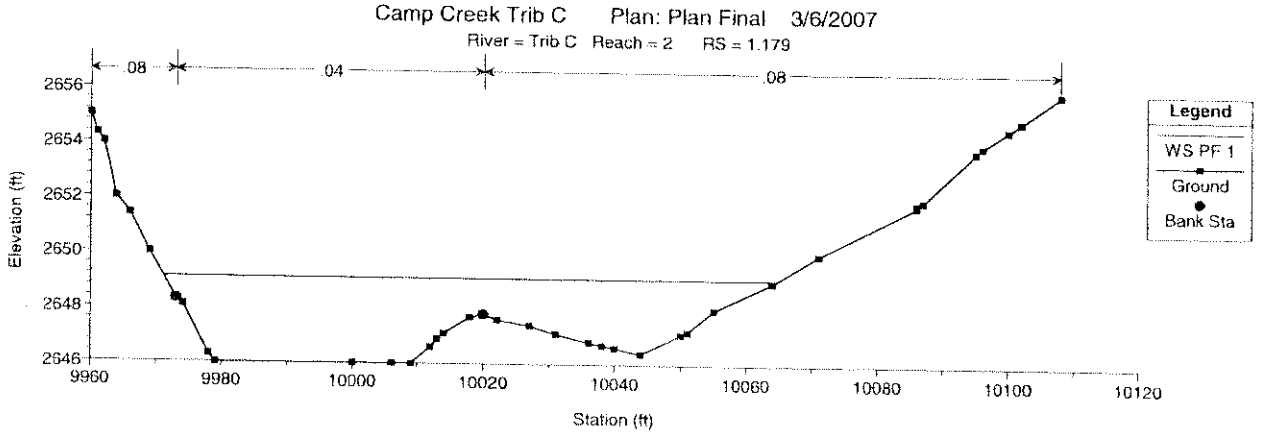
.04
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 2 RS = 1.179
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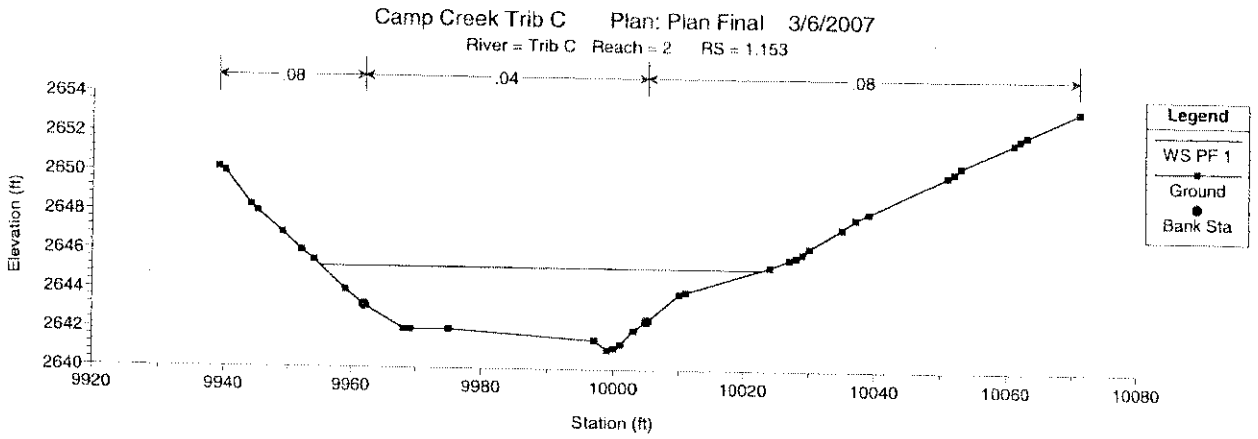
.04
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 2 RS = 1.153
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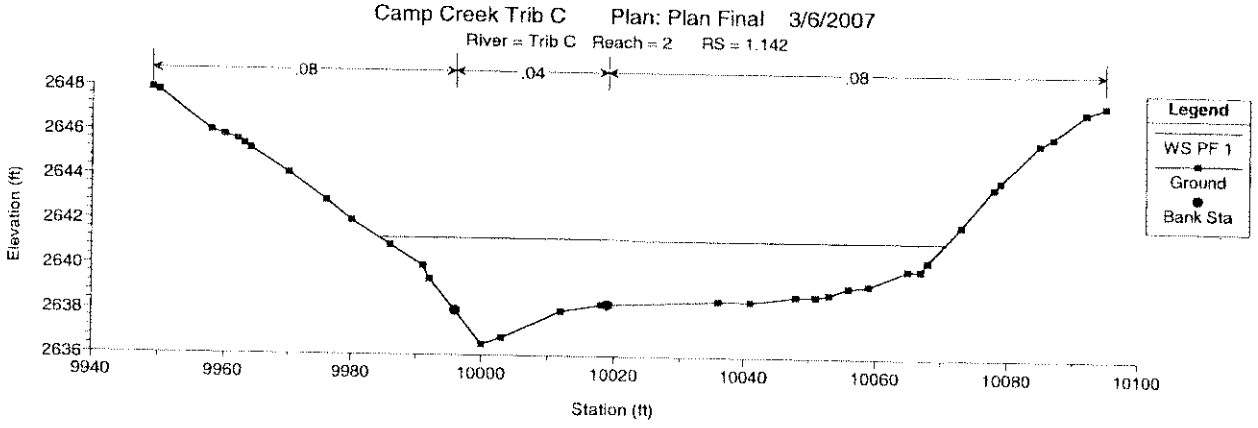
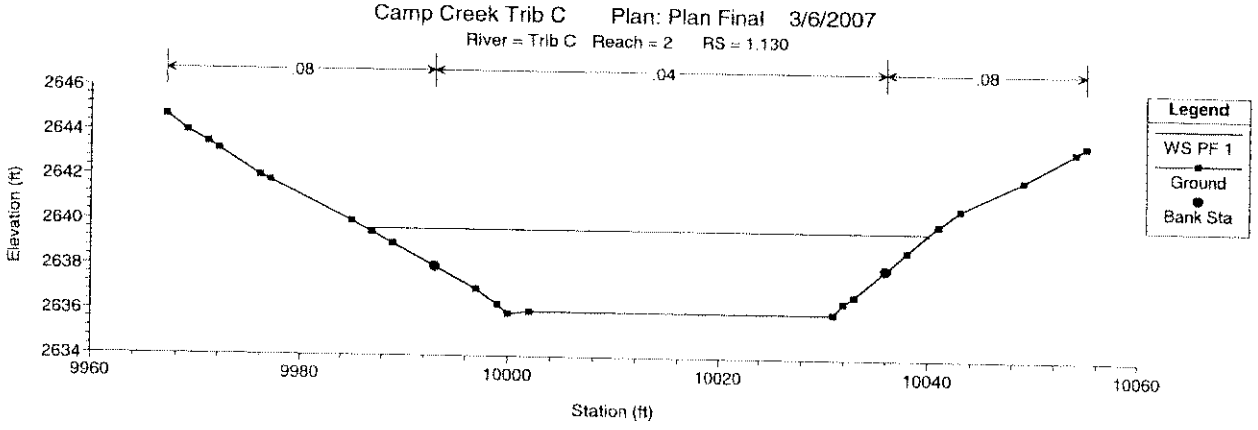
.04
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 2 RS = 1.142
.08
.04
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 2 RS = 1.130
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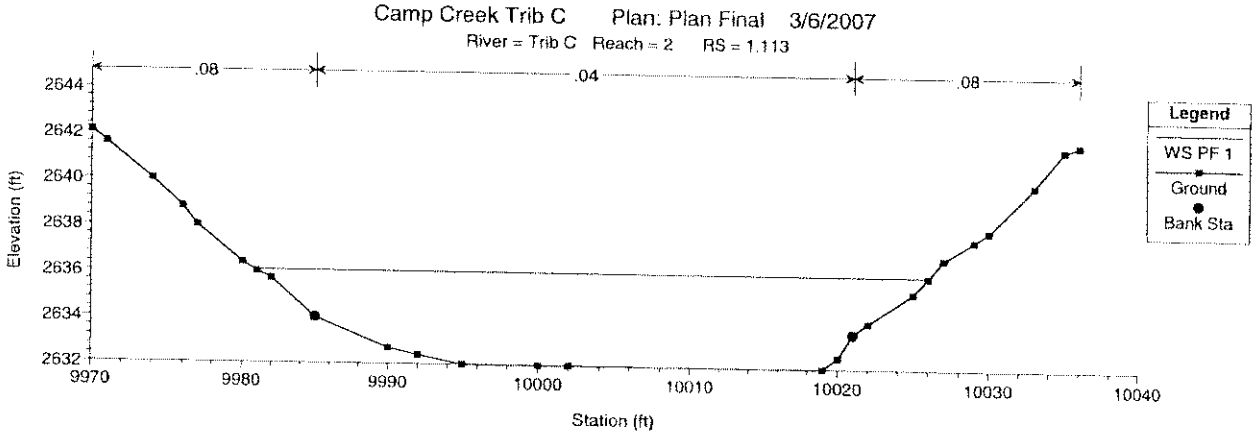
.04
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 2 RS = 1.113
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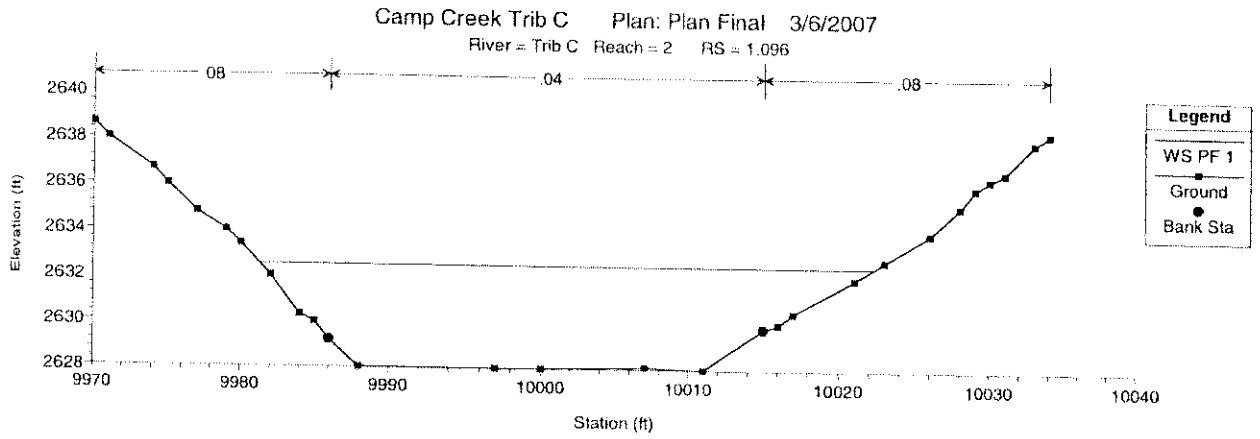
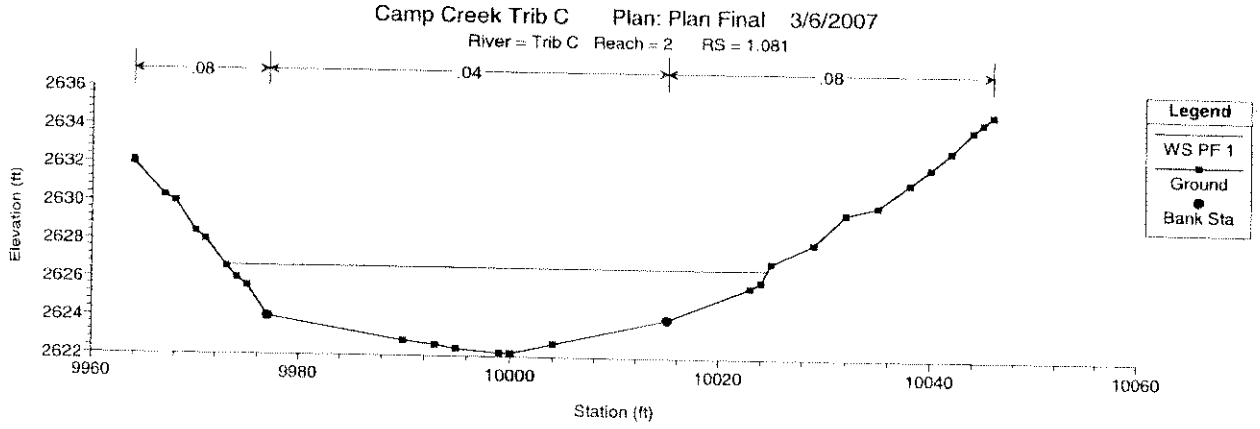
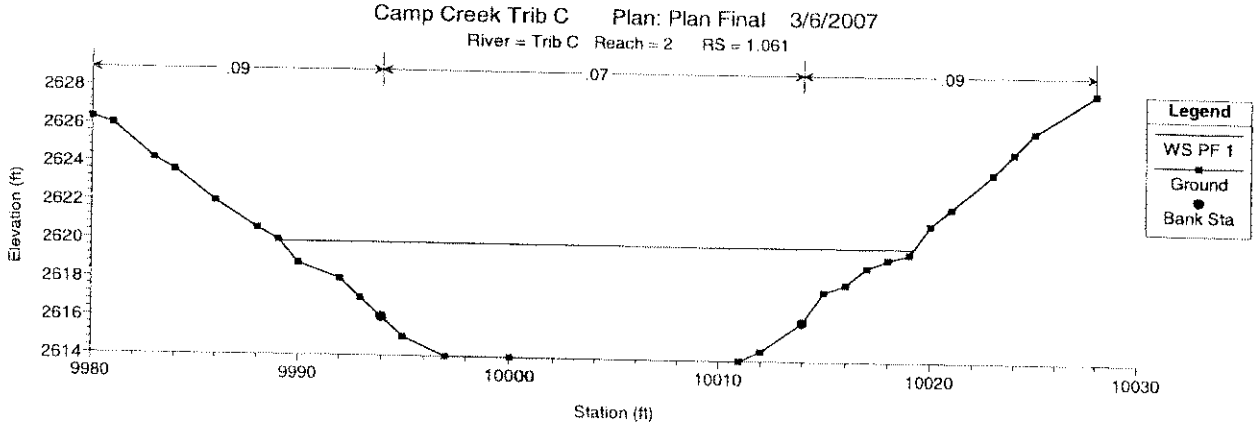
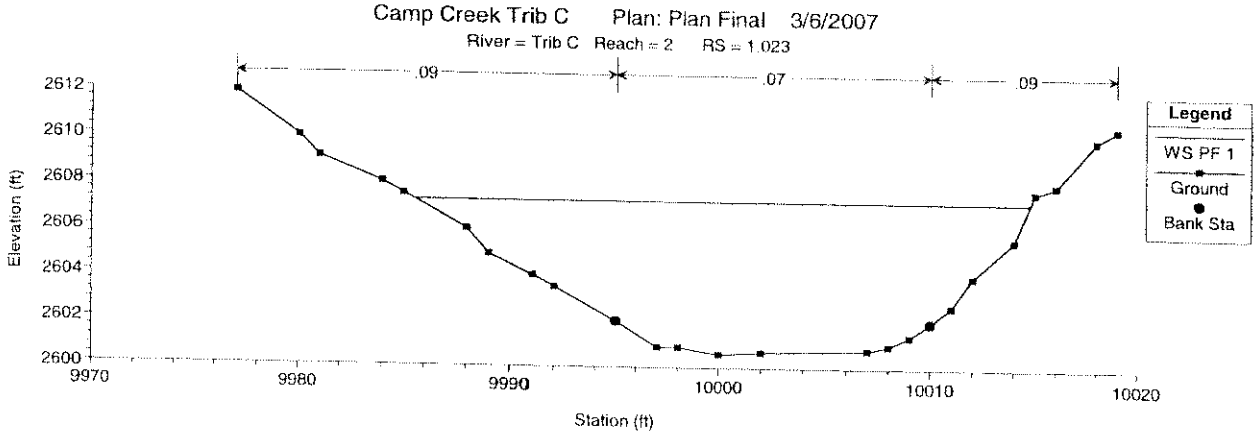
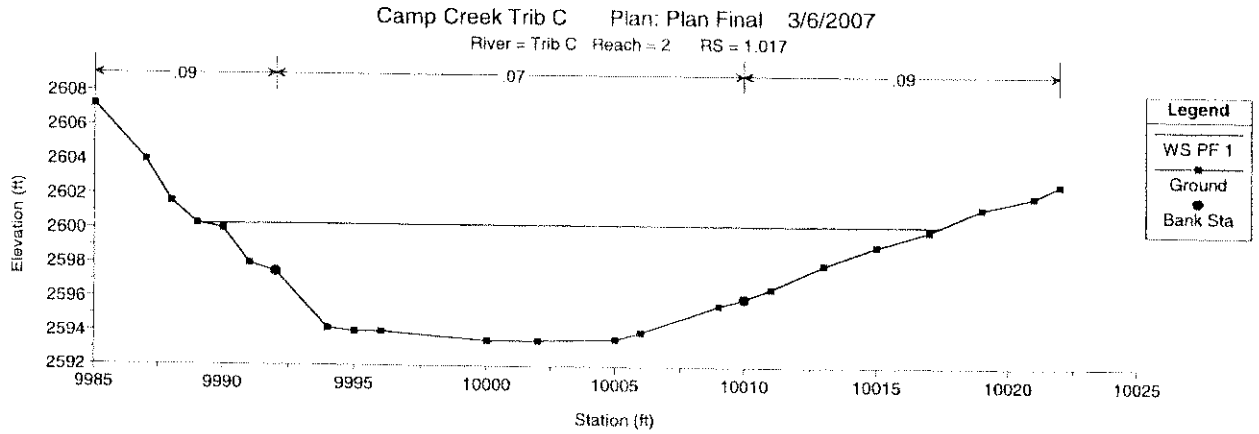
.04
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

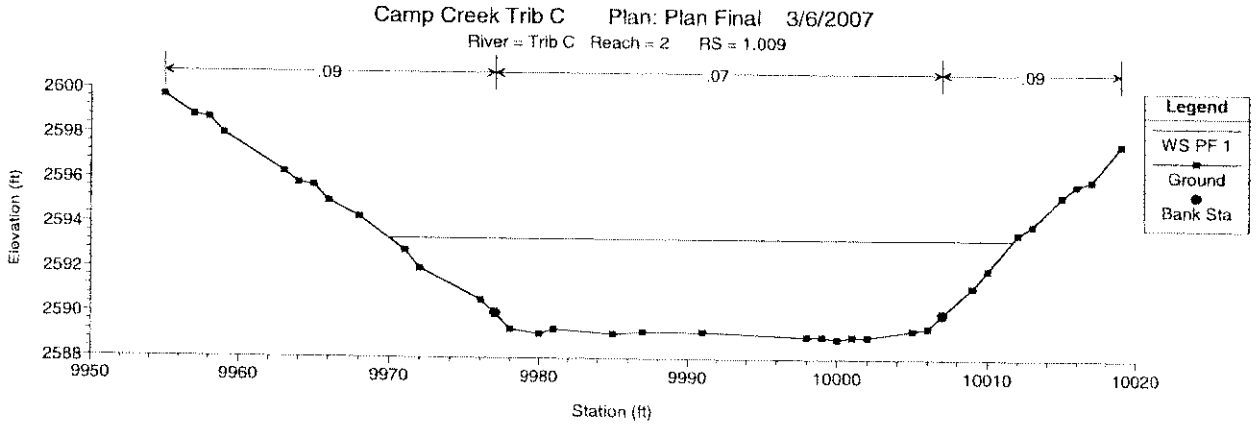

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 2 RS = 1.096
.08
.04
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

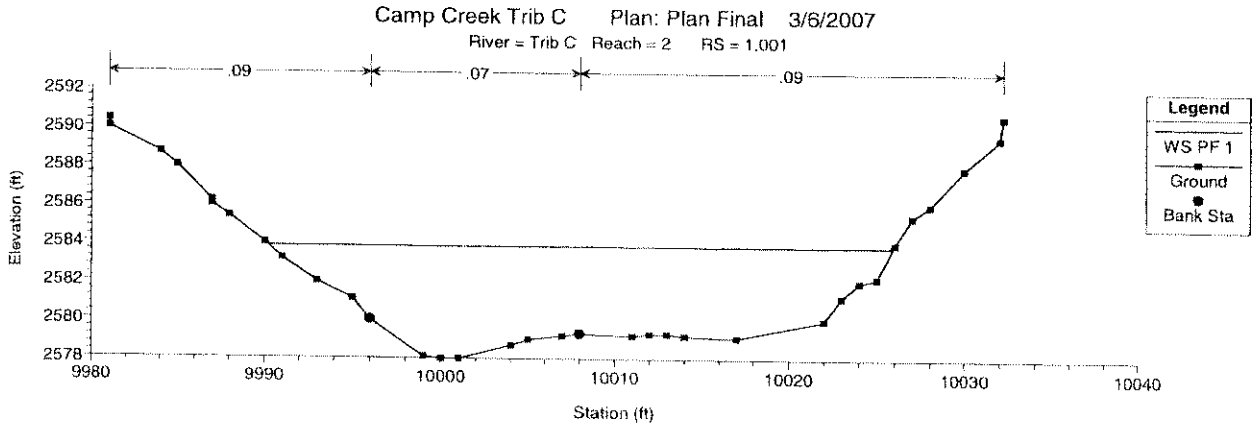

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 2 RS = 1.081
.08
.04
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

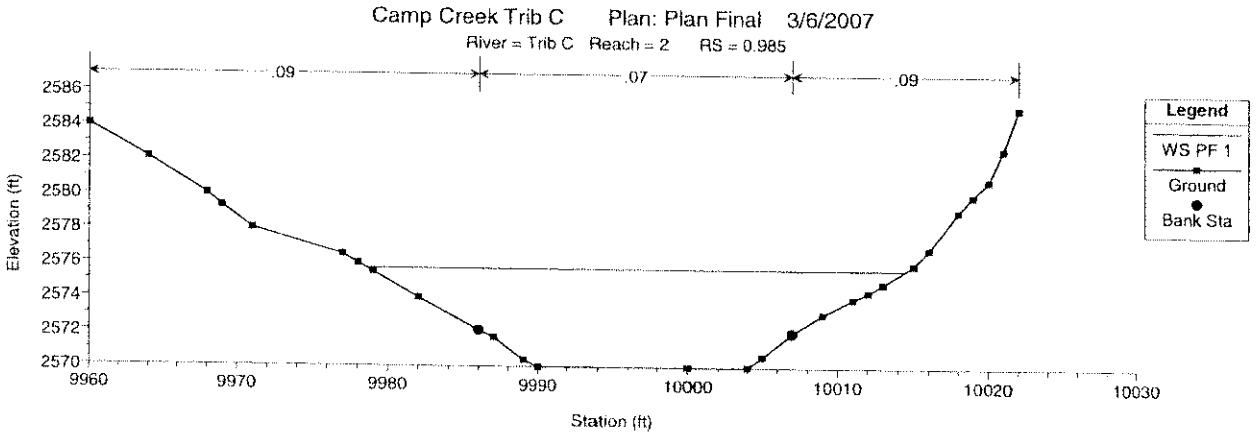

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 2 RS = 1.061
.09
.07
.09
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

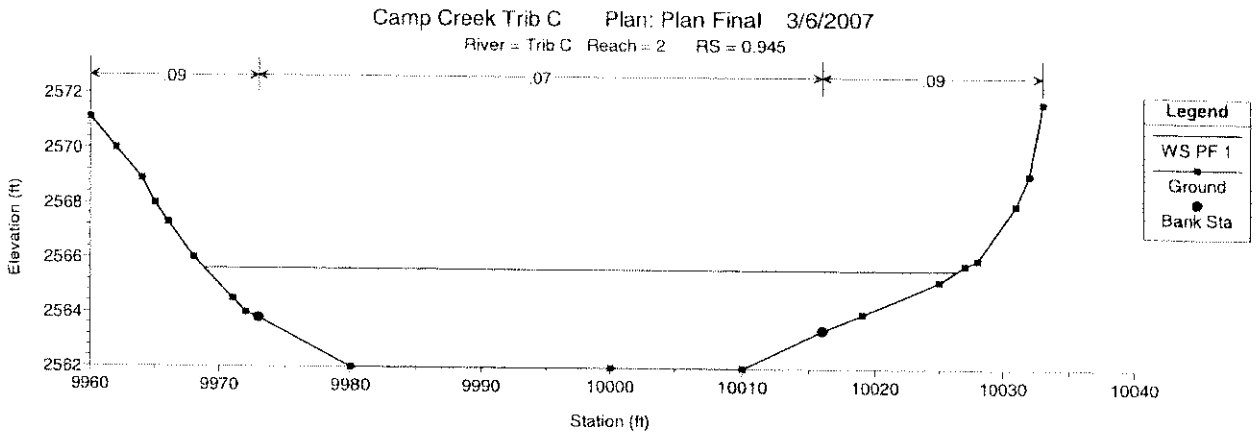

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 2 RS = 1.023
.09
.07
.09
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

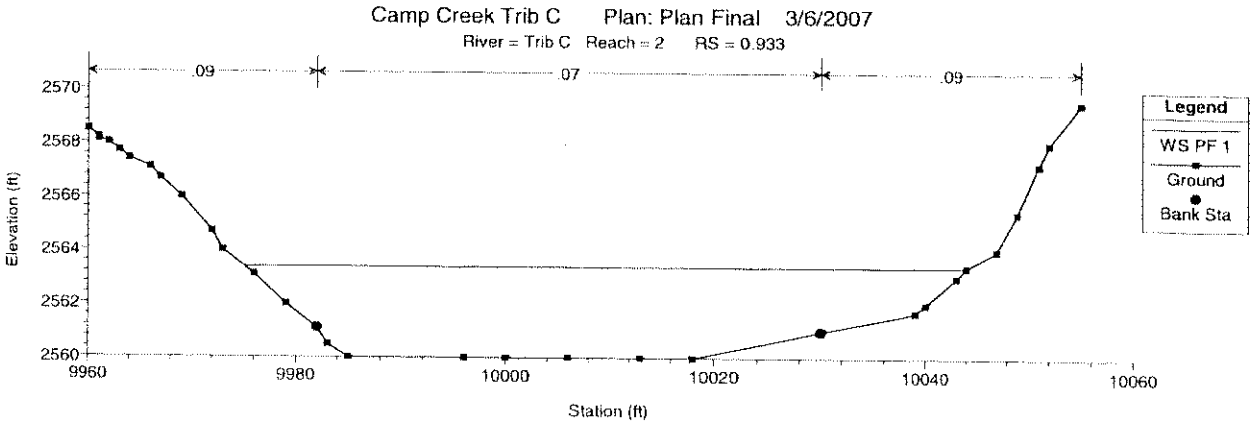

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 2 RS = 1.017
.09
.07
.09
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

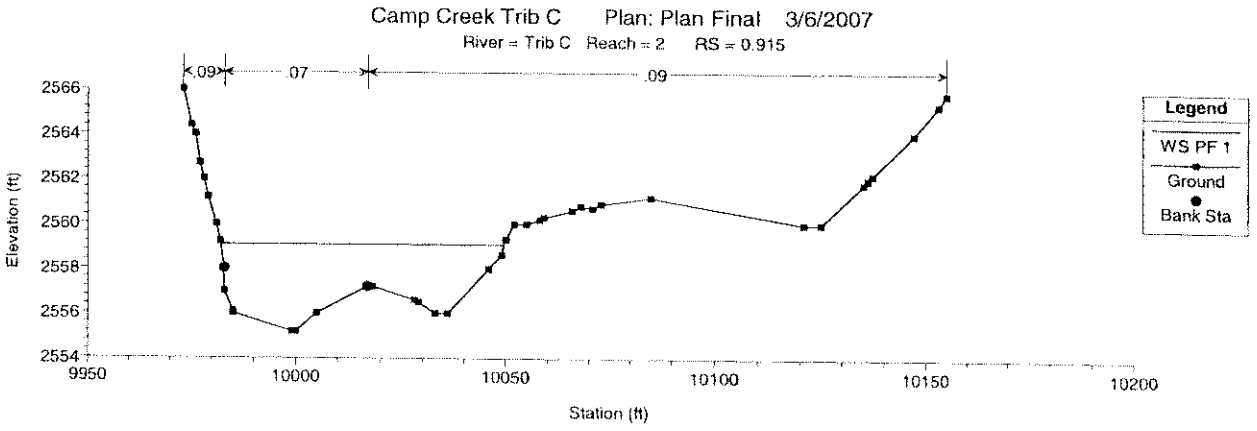

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 2 RS = 1.009
.09
.07
.09
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

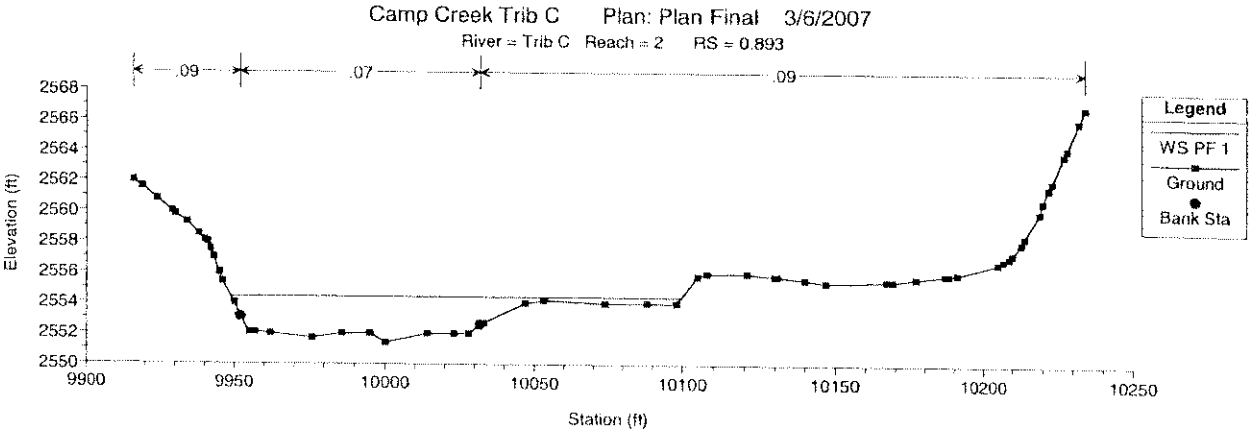

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 2 RS = 1.001
.09
.07
.09
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

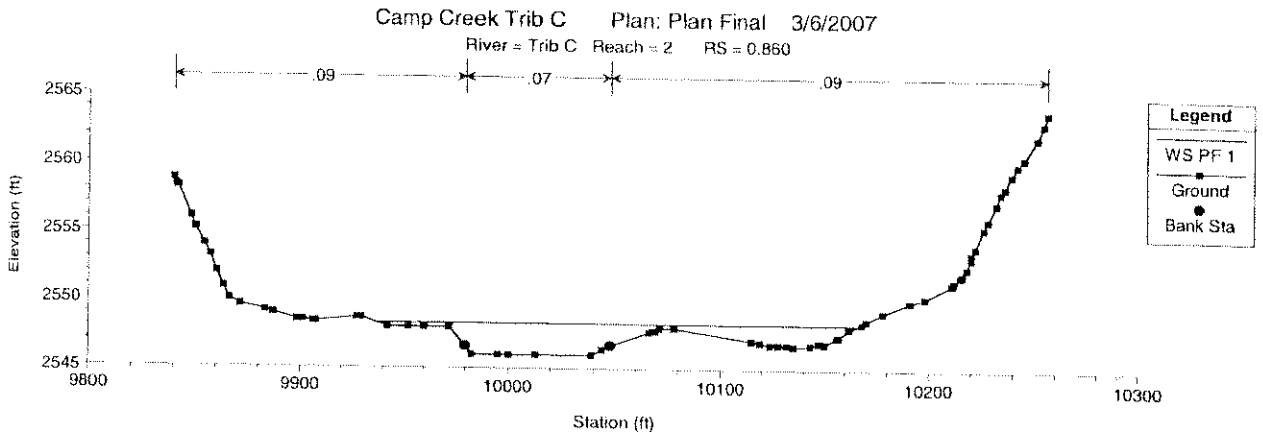

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 2 RS = 0.985
.09
.07
.09
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

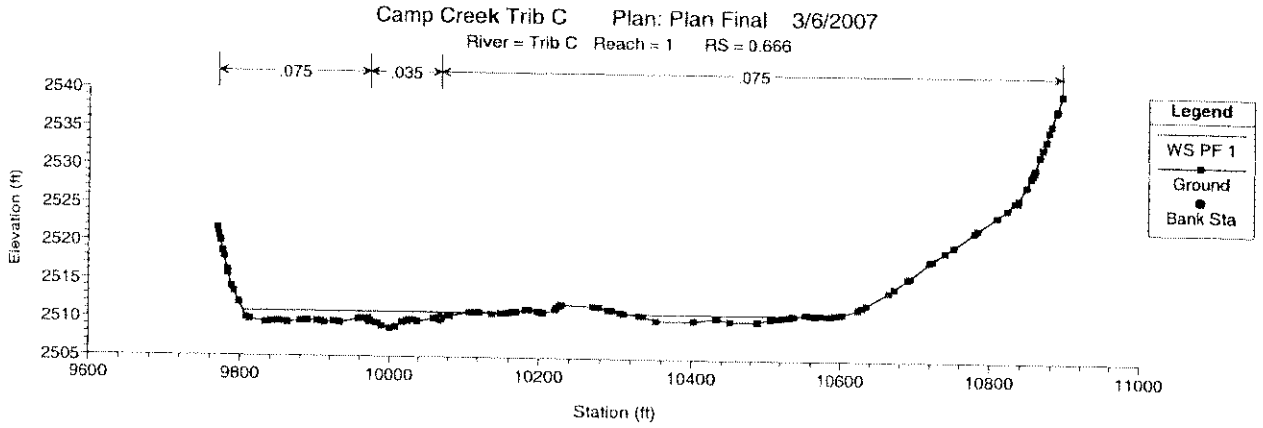

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 2 RS = 0.945
.09
.07
.09
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

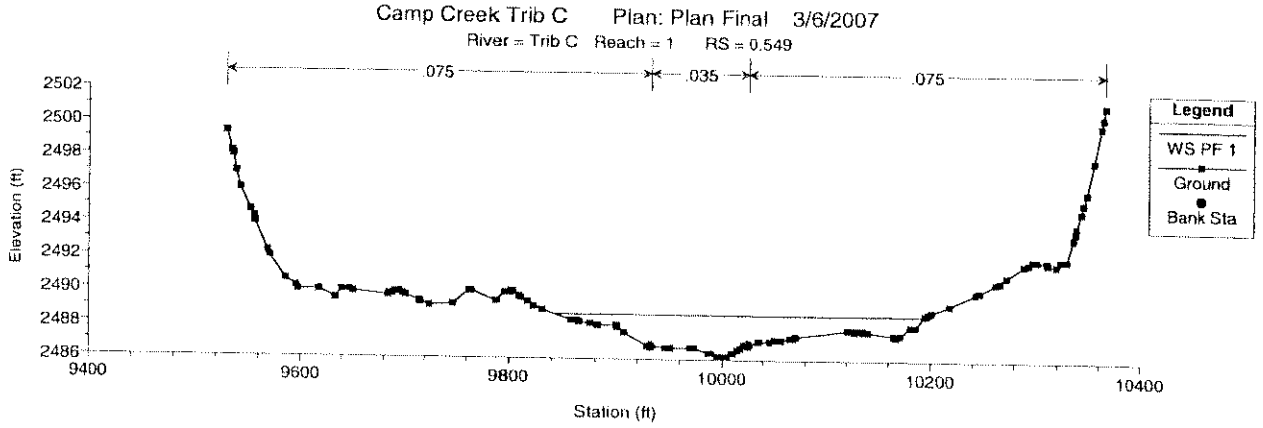

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 2 RS = 0.933
.09
.07
.09
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

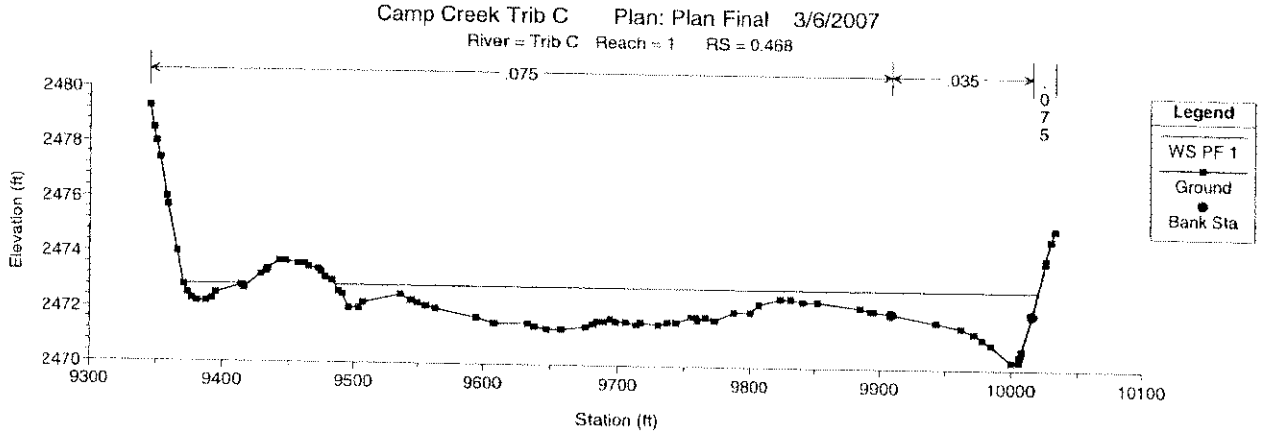

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 2 RS = 0.915
.09
.07
.09
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

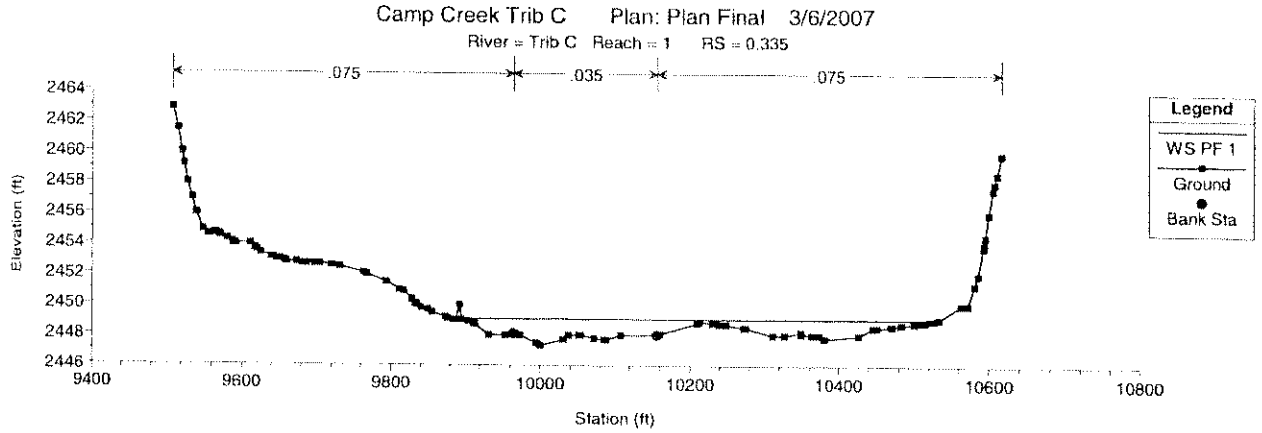

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 2 RS = 0.893
.09
.07
.09
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

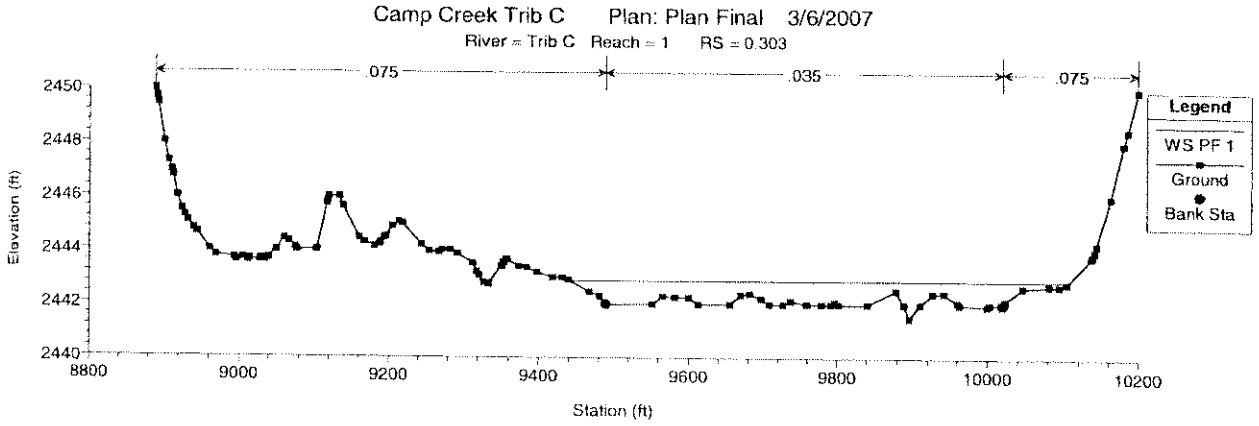

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 2 RS = 0.860
.09
.07
.09
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

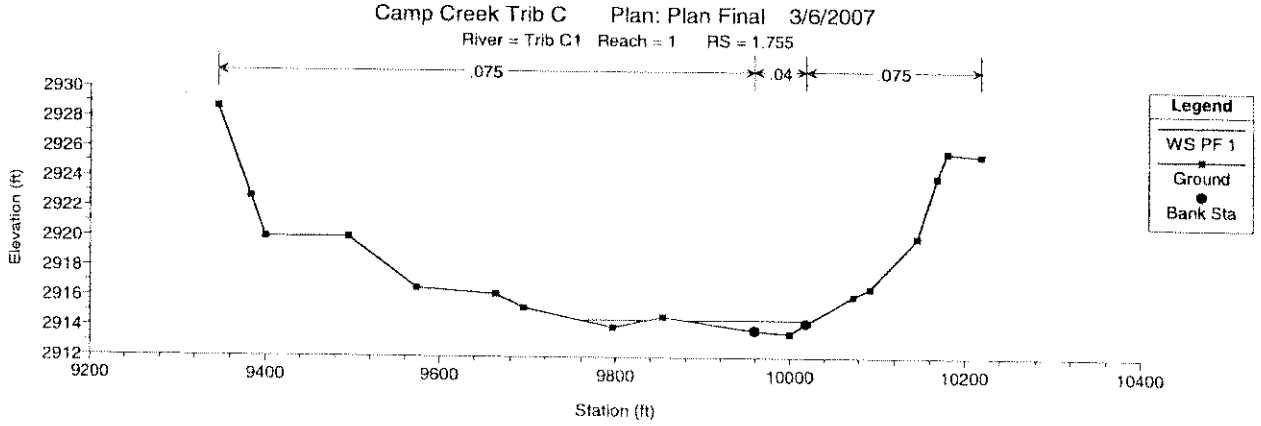

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 1 RS = 0.666
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

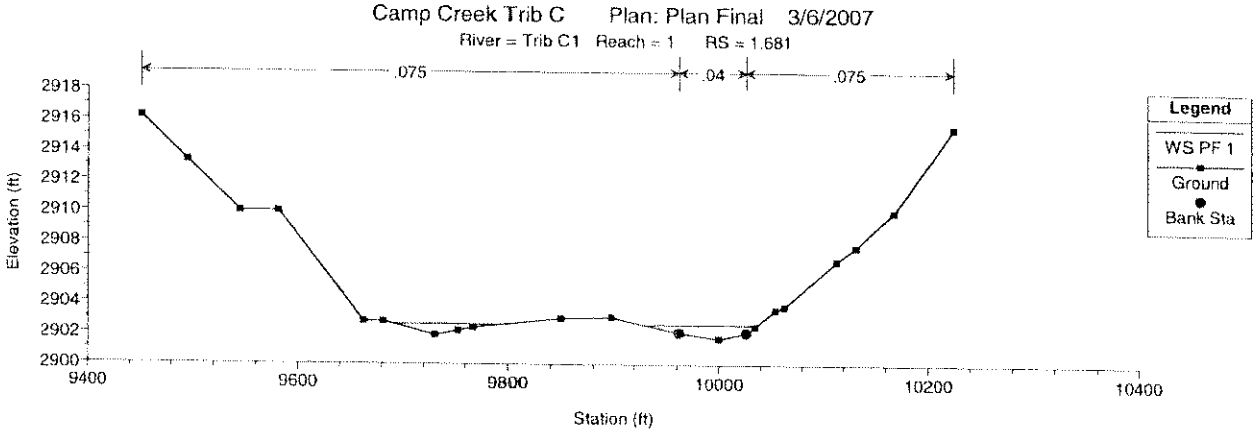

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 1 RS = 0.549
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

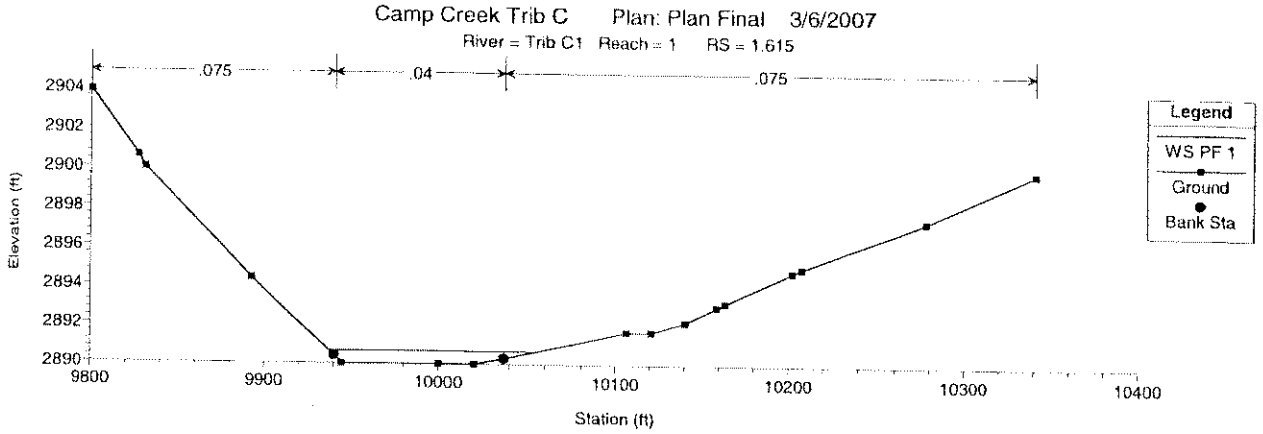

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 1 RS = 0.468
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

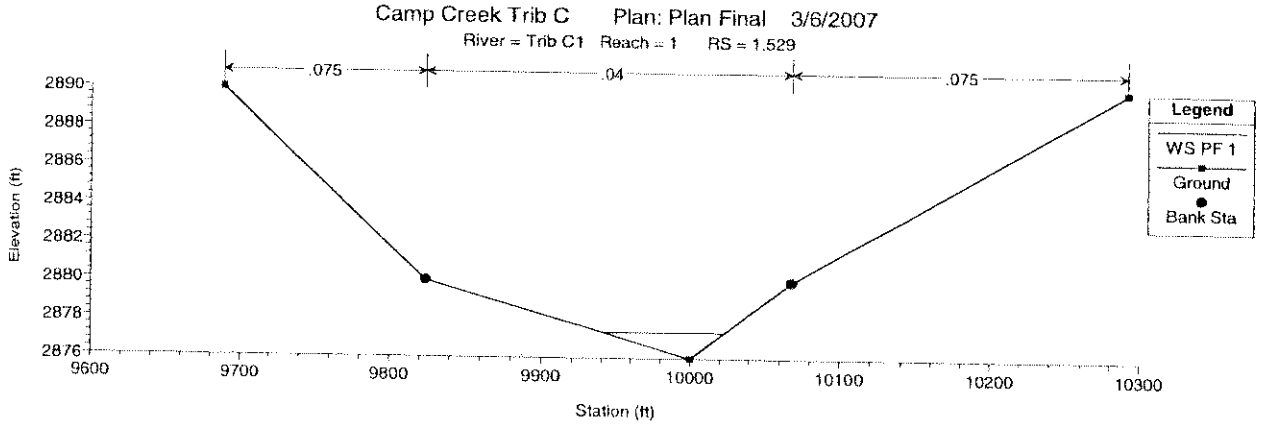

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 1 RS = 0.335
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

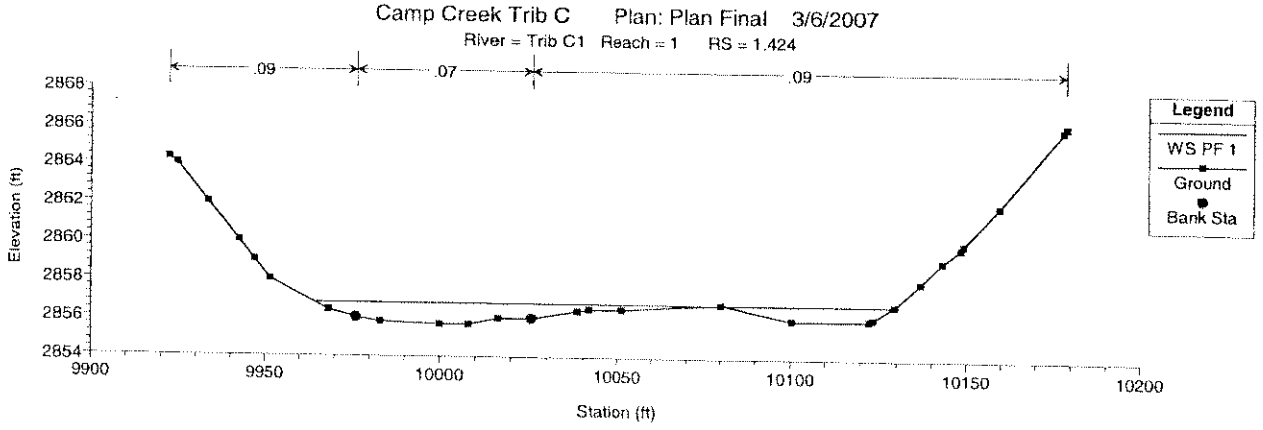

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C Reach = 1 RS = 0.303
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

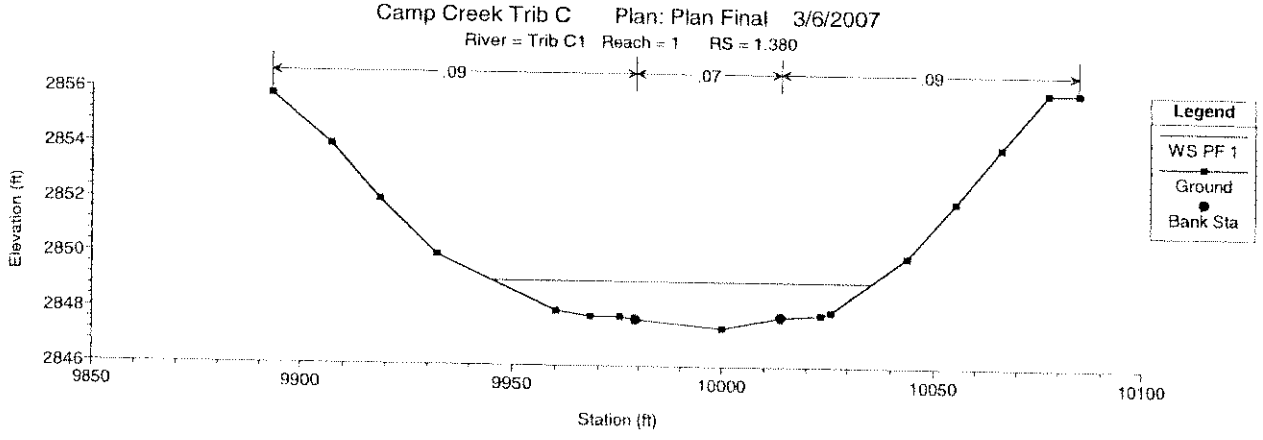

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 1.755
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

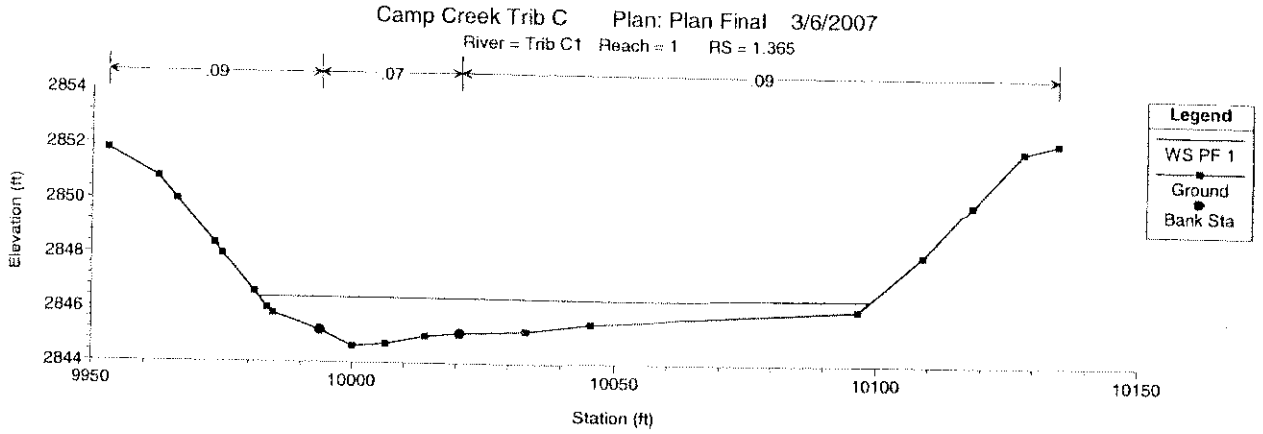

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 1.681
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

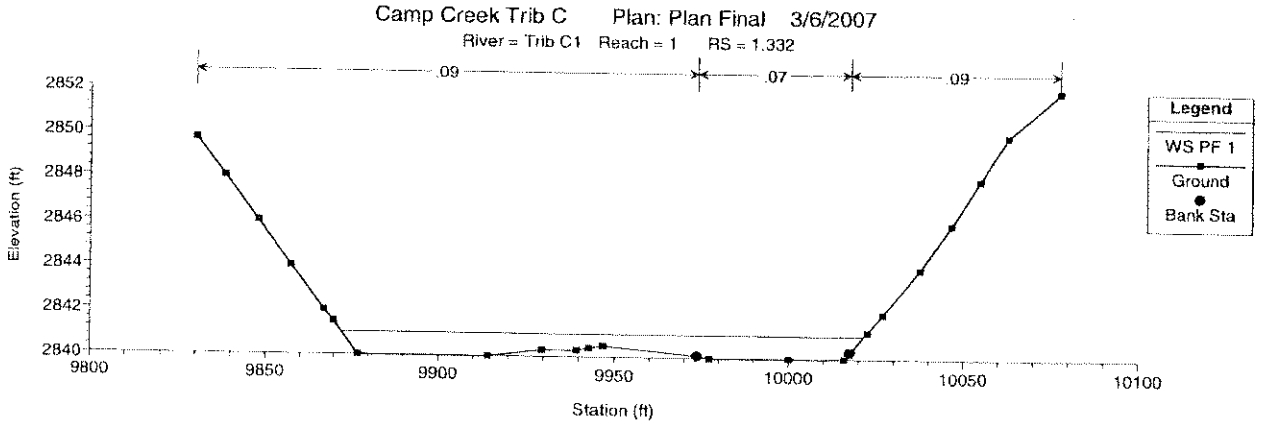

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 1.615
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

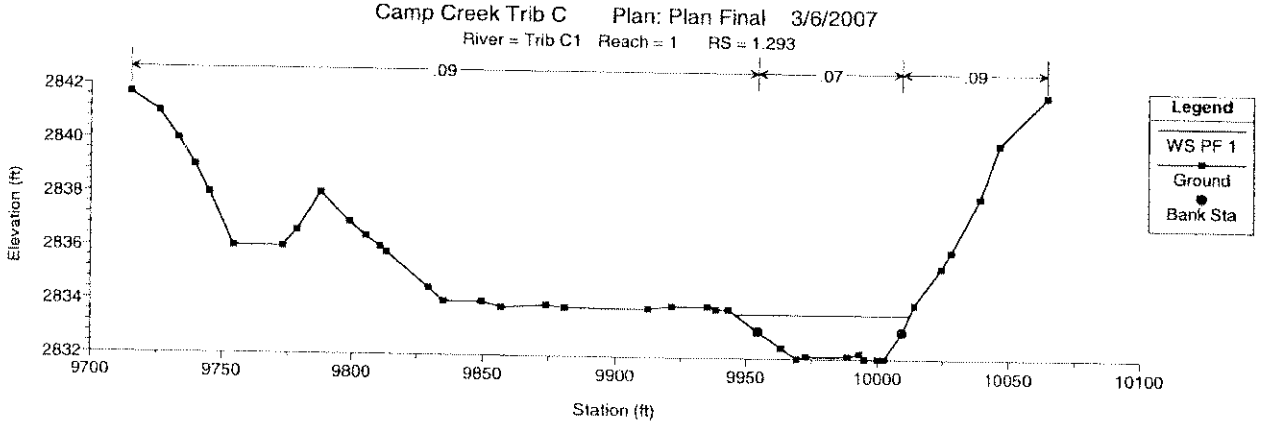

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 1.529
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

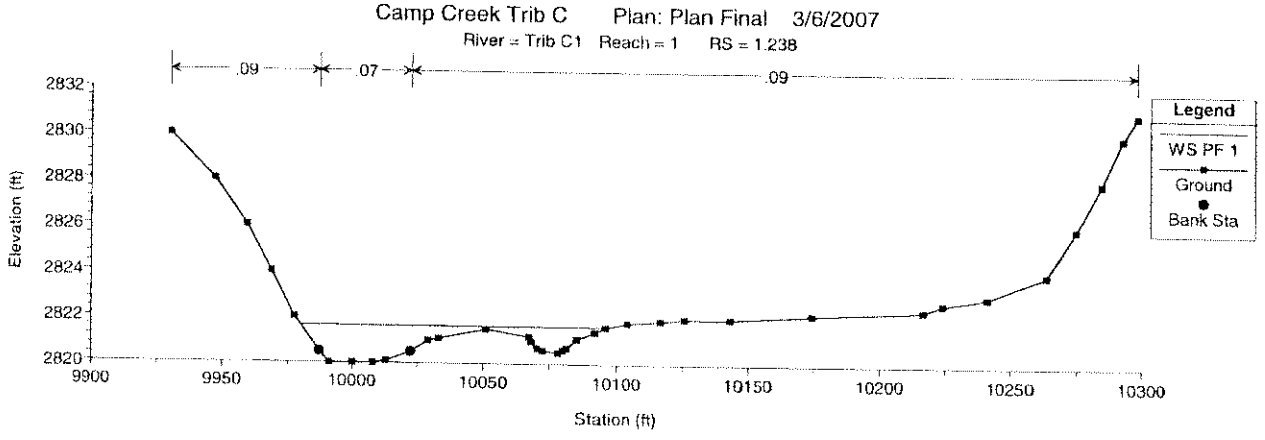

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 1.424
.09
.07
.09
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

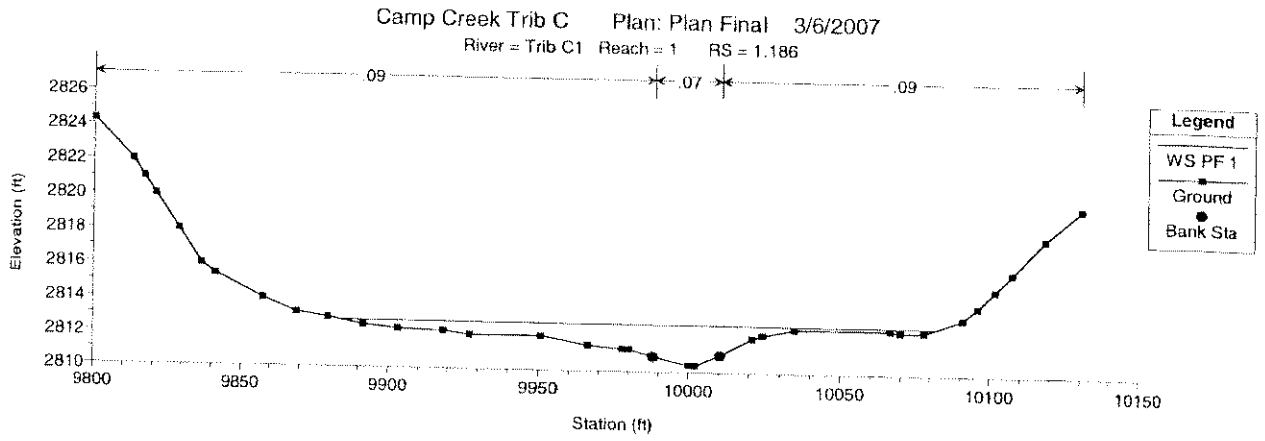

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 1.380
.09
.07
.09
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

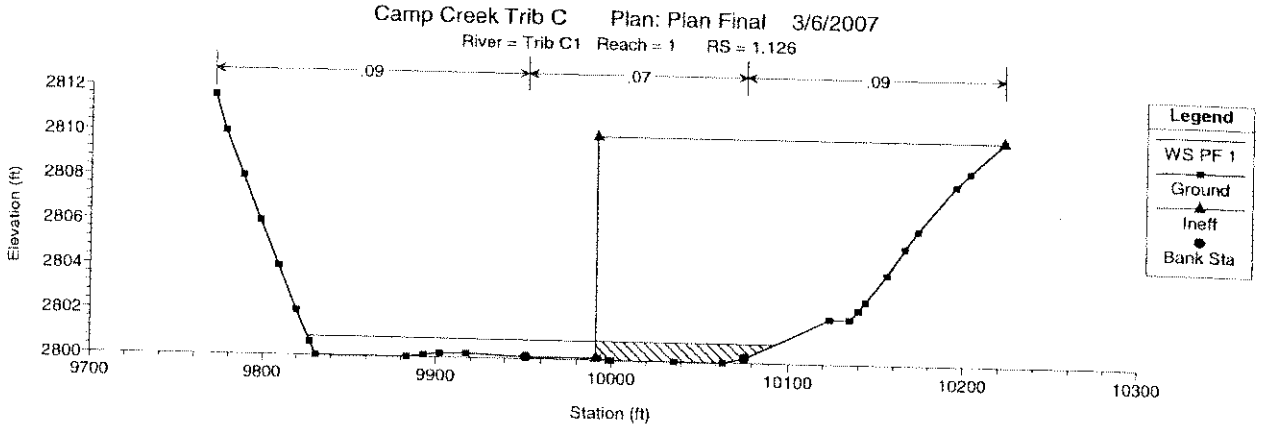

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 1.365
.09
.07
.09
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

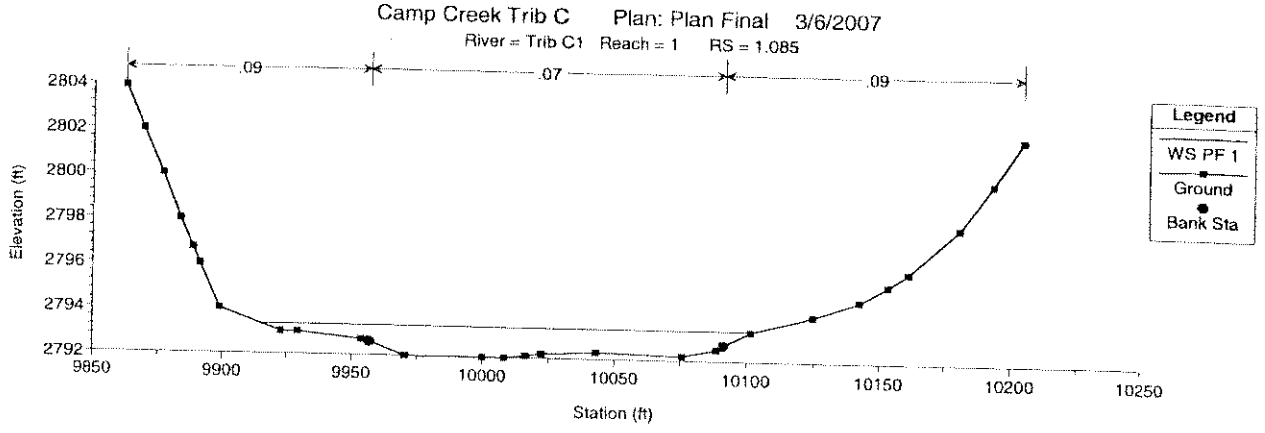

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 1.332
.09
.07
.09
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

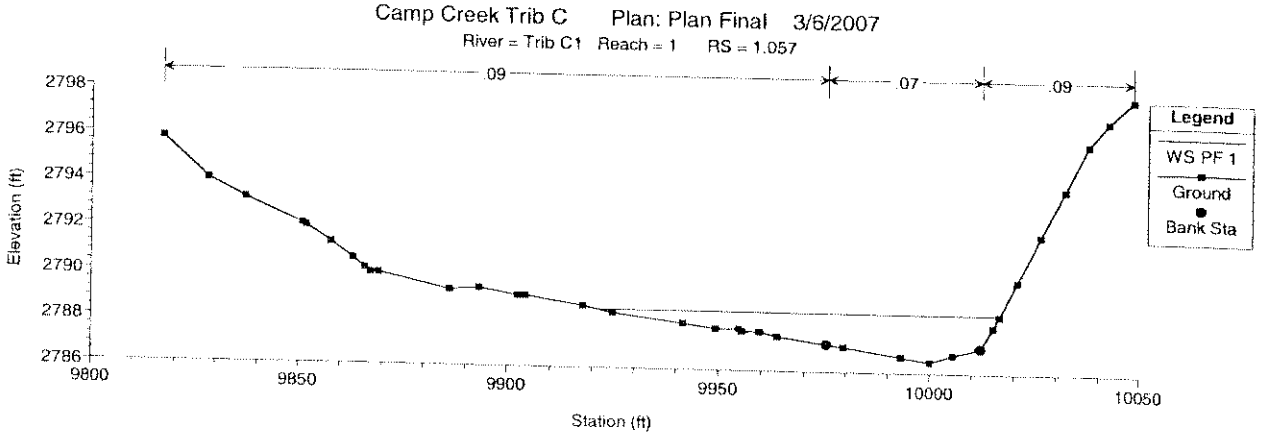

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 1.293
.09
.07
.09
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

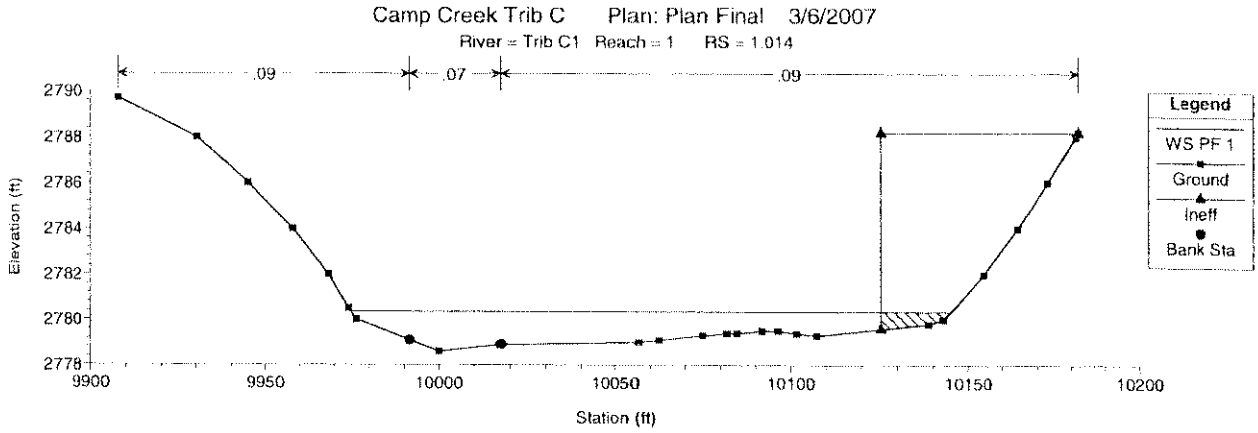

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 1.238
.09
.07
.09
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

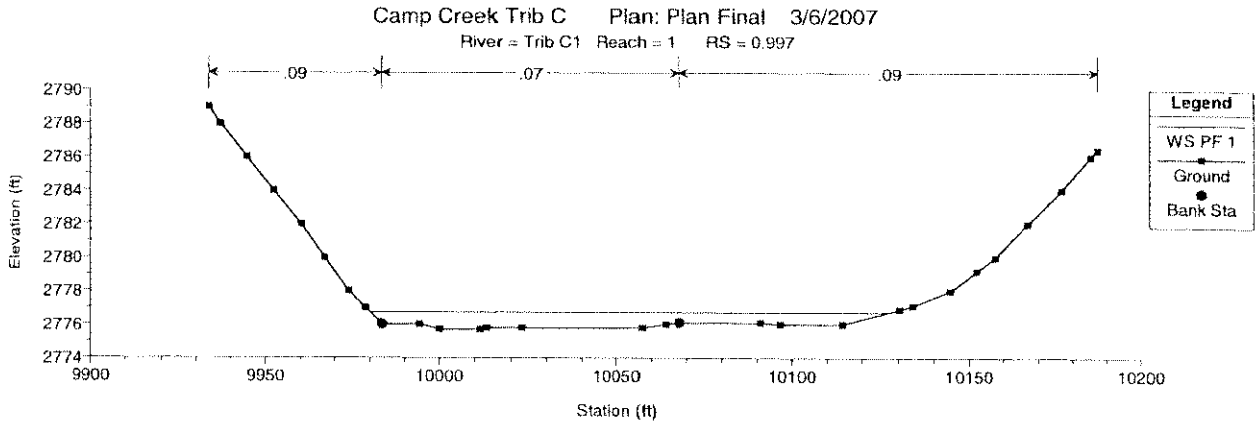

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 1.186
.09
.07
.09
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

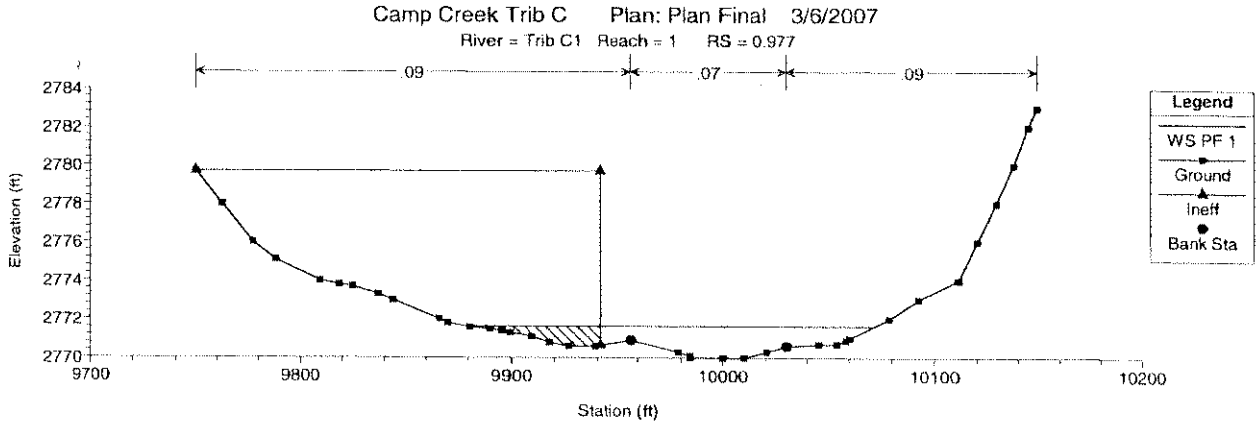

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 1.126
.09
.07
.09
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Ineff
Bank Sta

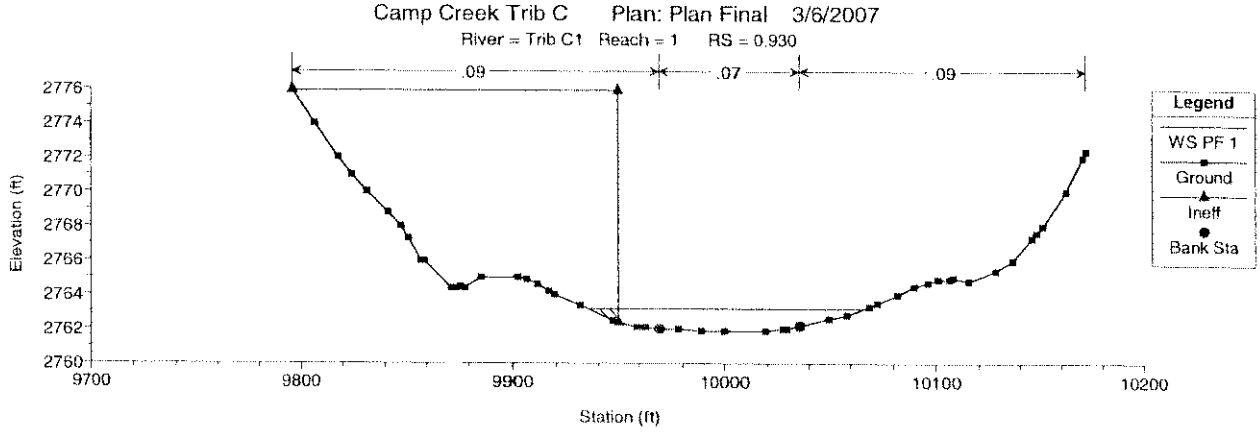

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 1.085
.09
.07
.09
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

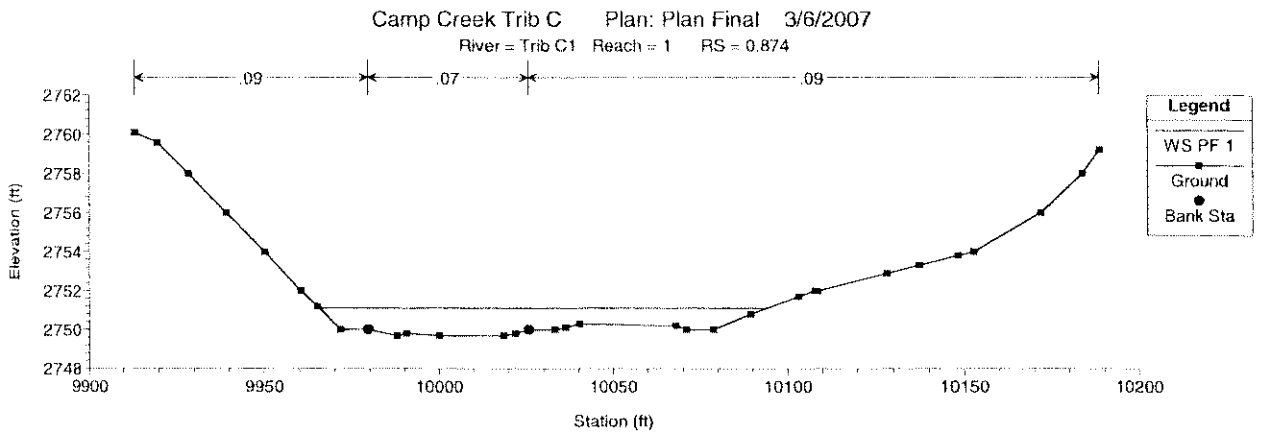

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 1.057
.09
.07
.09
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

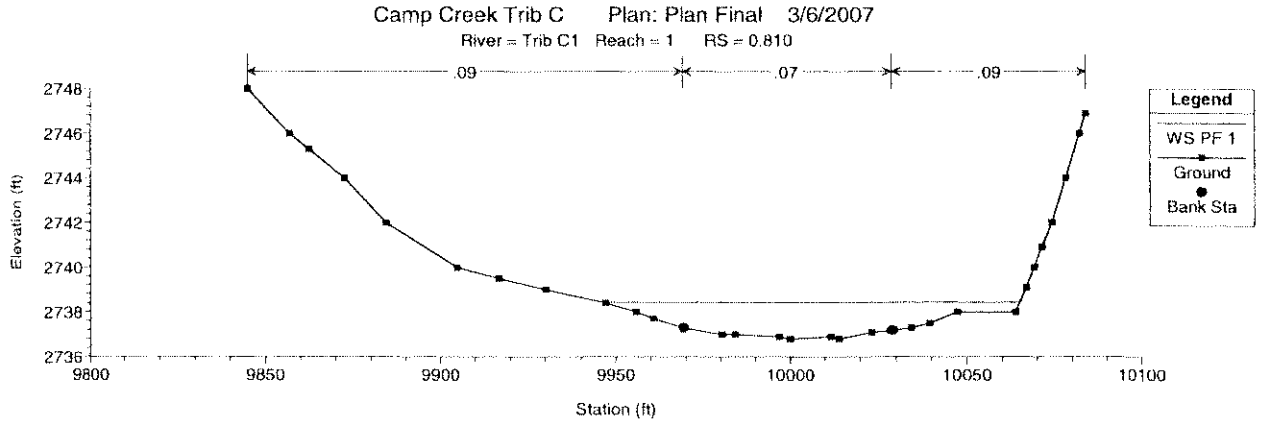

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 1.014
.09
.07
.09
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Ineff
Bank Sta

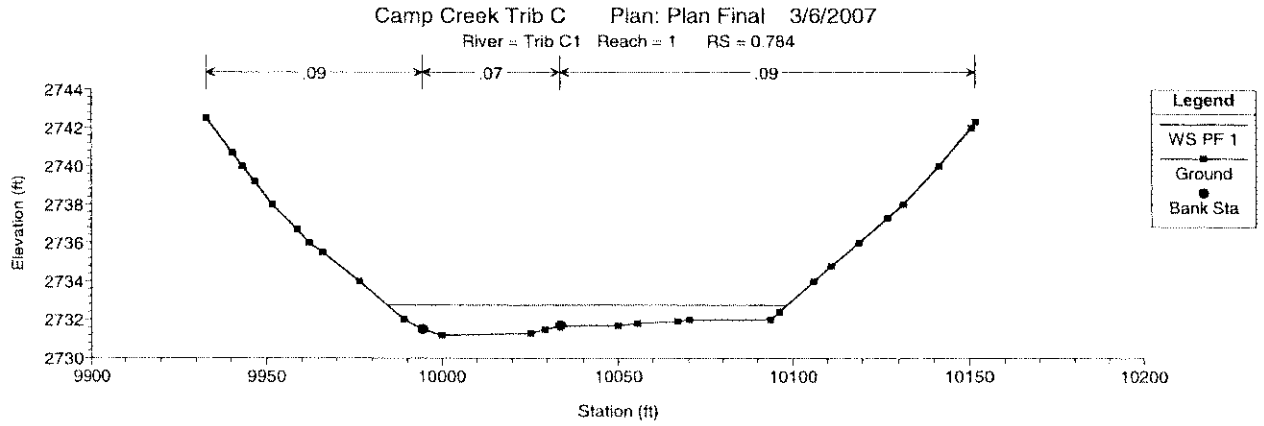

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 0.997
.09
.07
.09
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

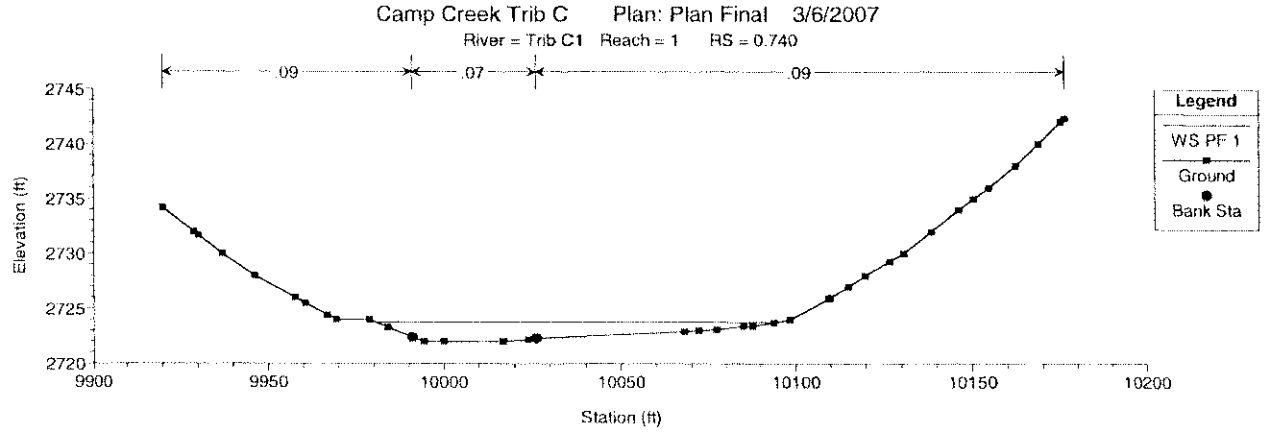

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 0.977
.09
.07
.09
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Ineff
Bank Sta

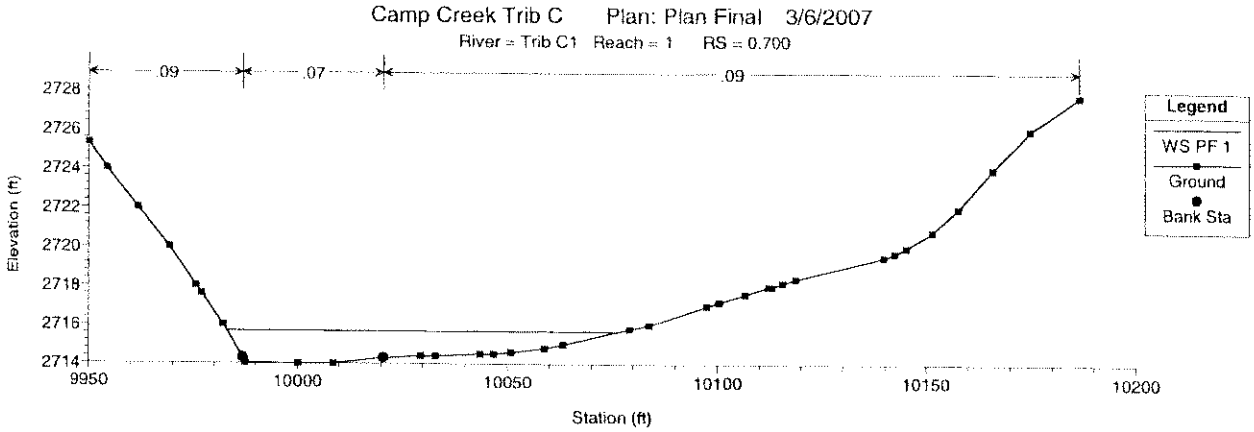

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 0.930
.09
.07
.09
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Ineff
Bank Sta

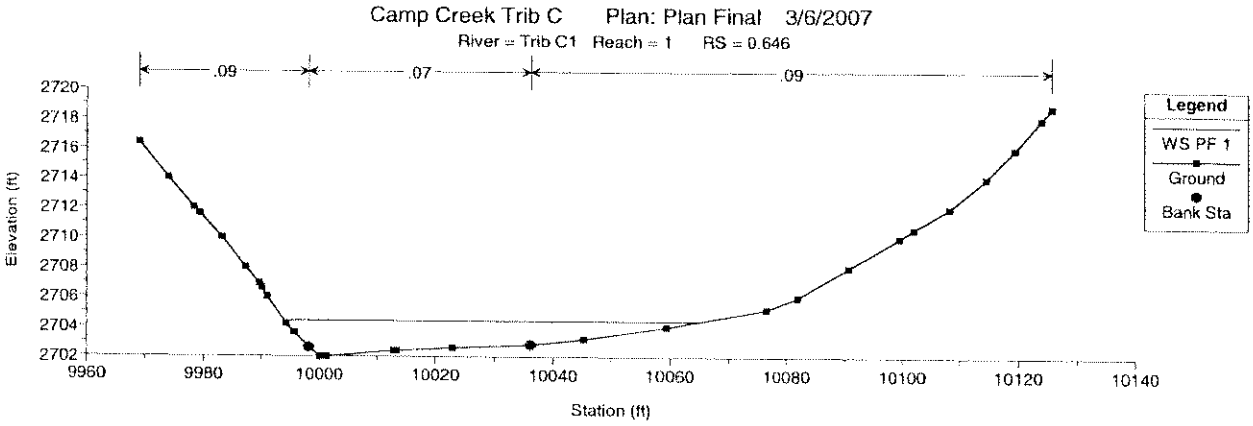

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 0.874
.09
.07
.09
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

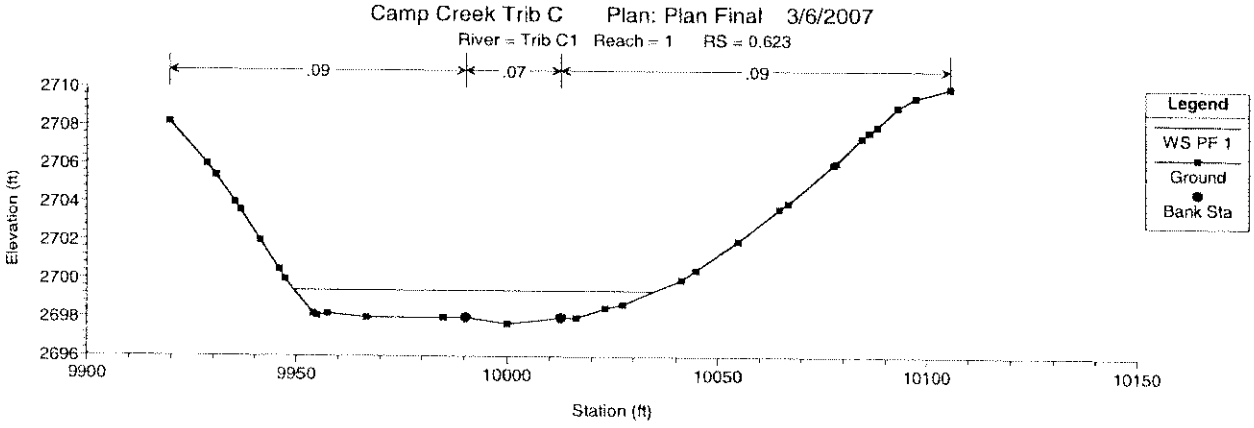

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 0.810
.09
.07
.09
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

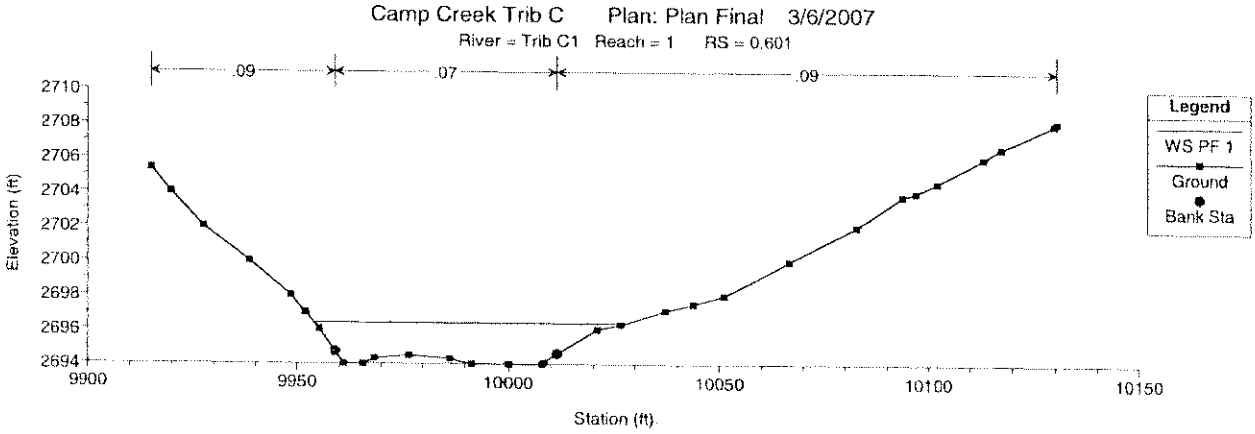

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 0.784
.09
.07
.09
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

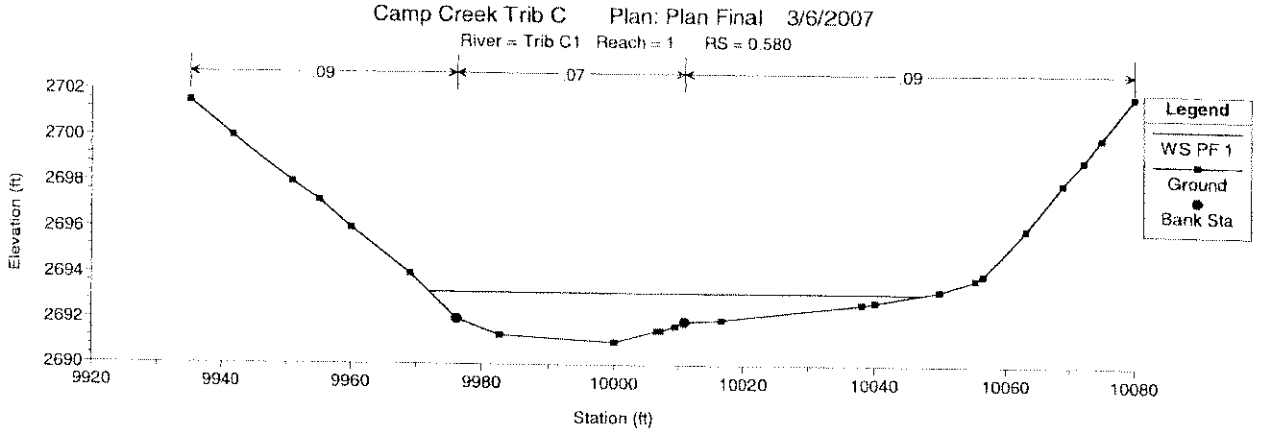

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 0.740
.09
.07
.09
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

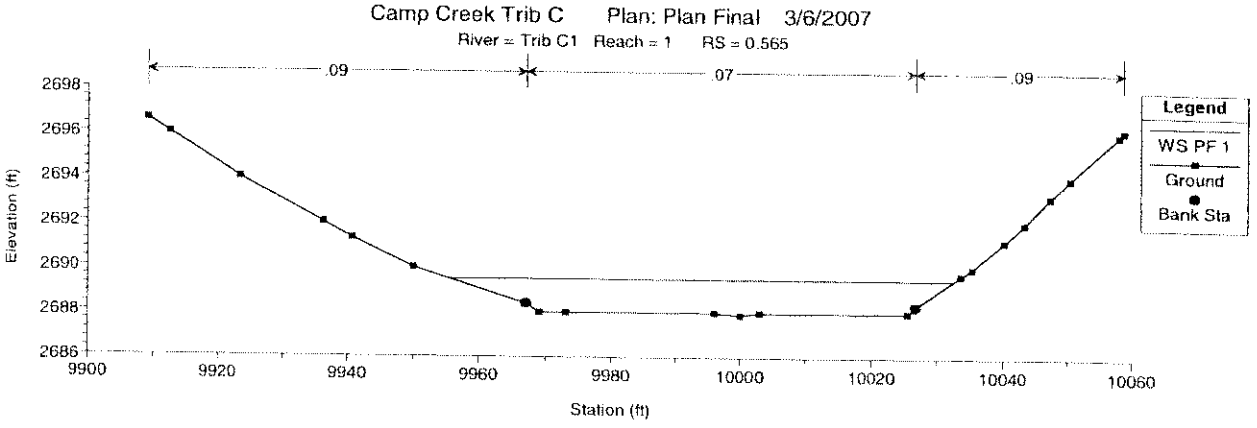

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 0.700
.09
.07
.09
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

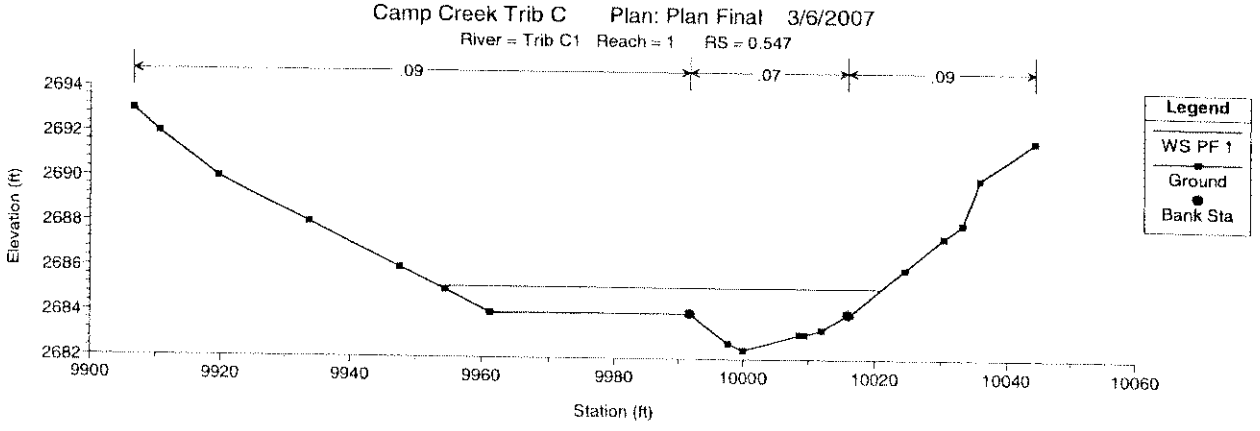

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 0.646
.09
.07
.09
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

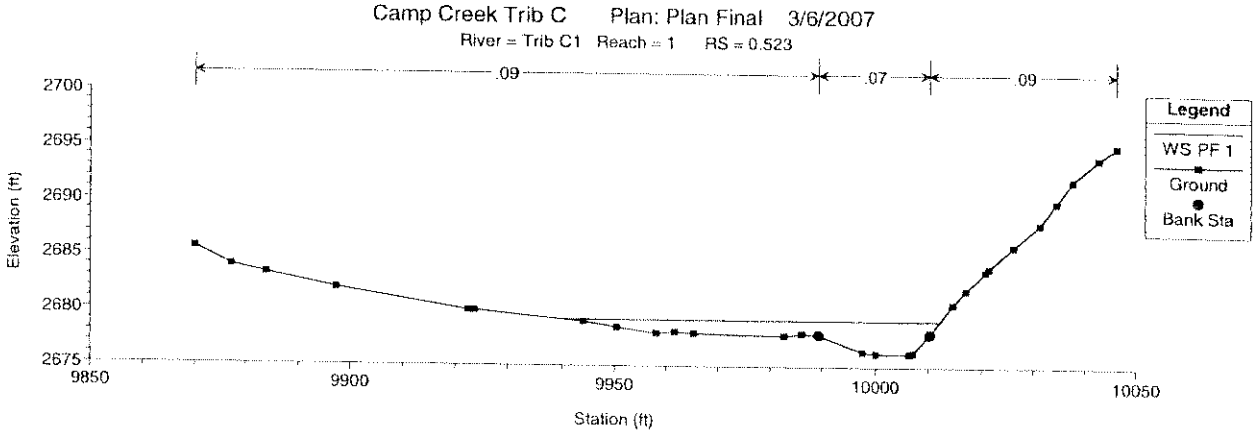

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 0.623
.09
.07
.09
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

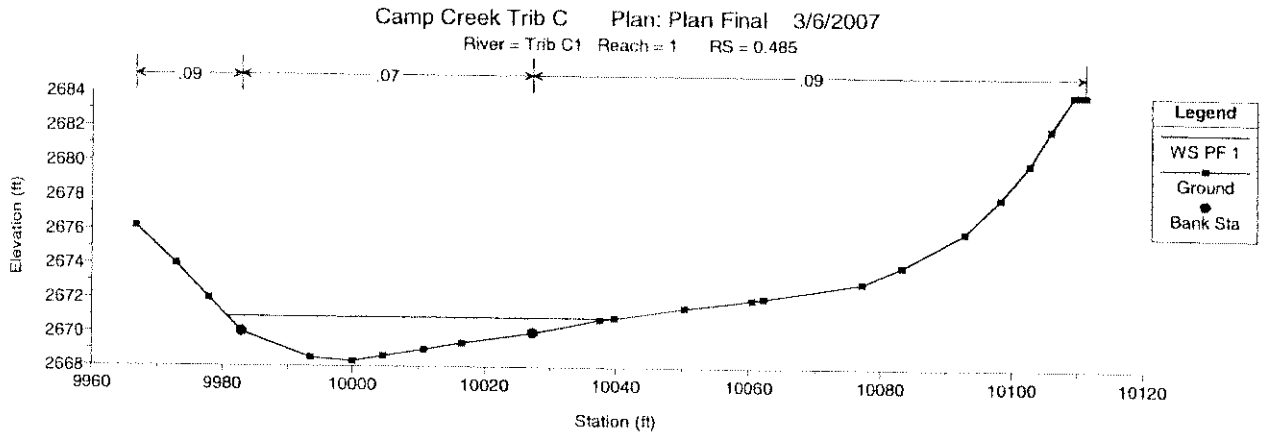

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 0.601
.09
.07
.09
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 0.580
.09
.07
.09
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 0.565
.09
.07
.09
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 0.547
.09
.07
.09
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 0.523
.09
.07
.09
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 0.485
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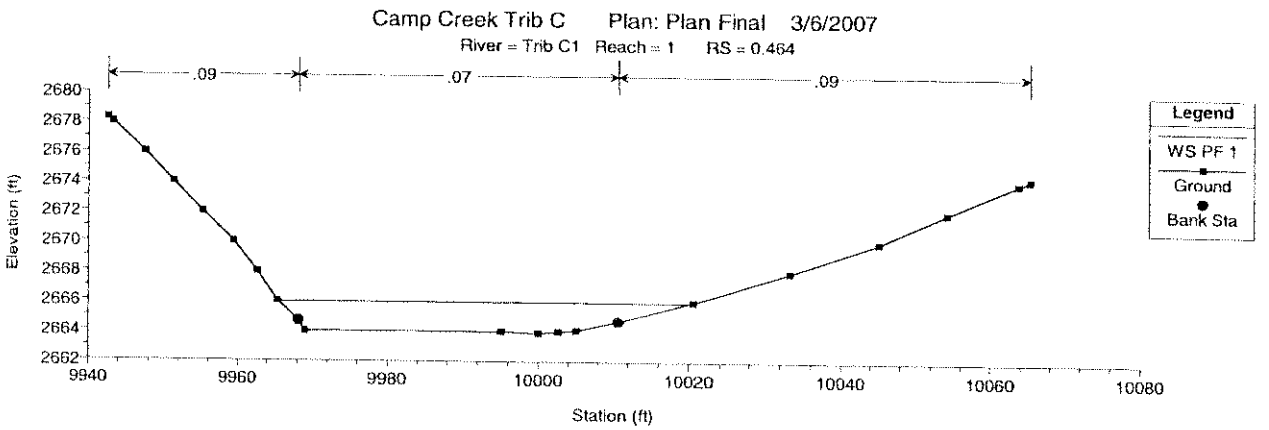
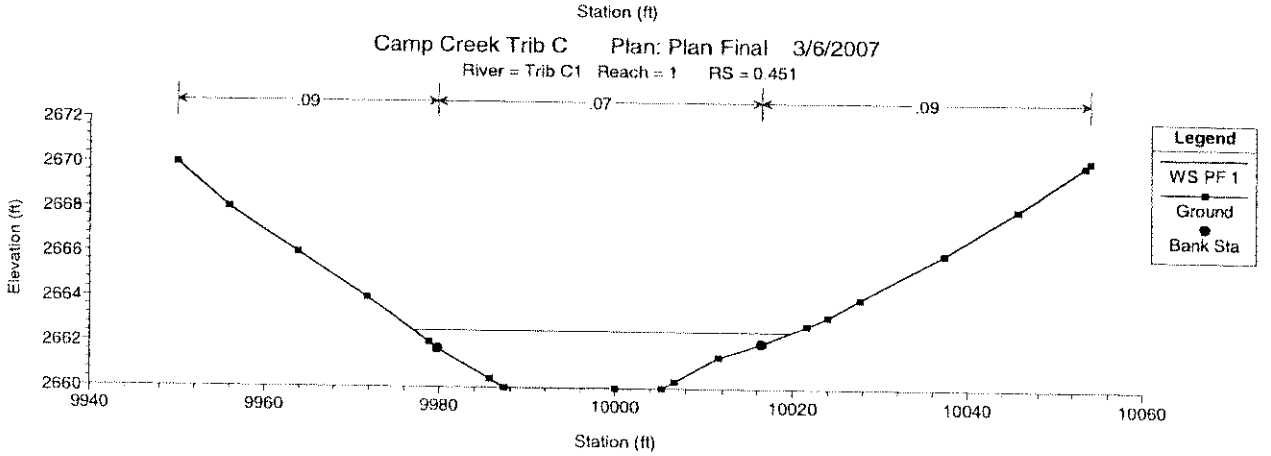
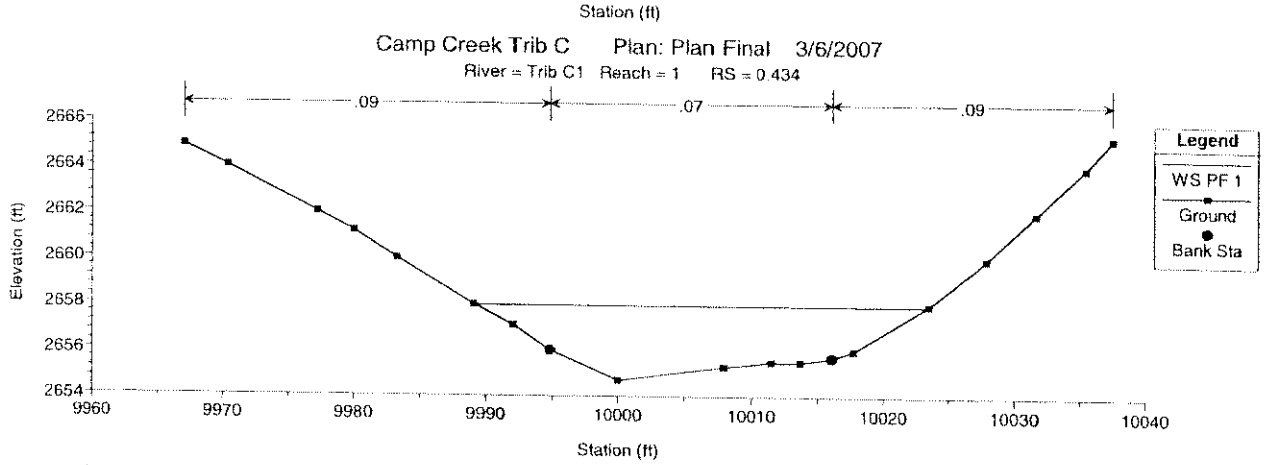
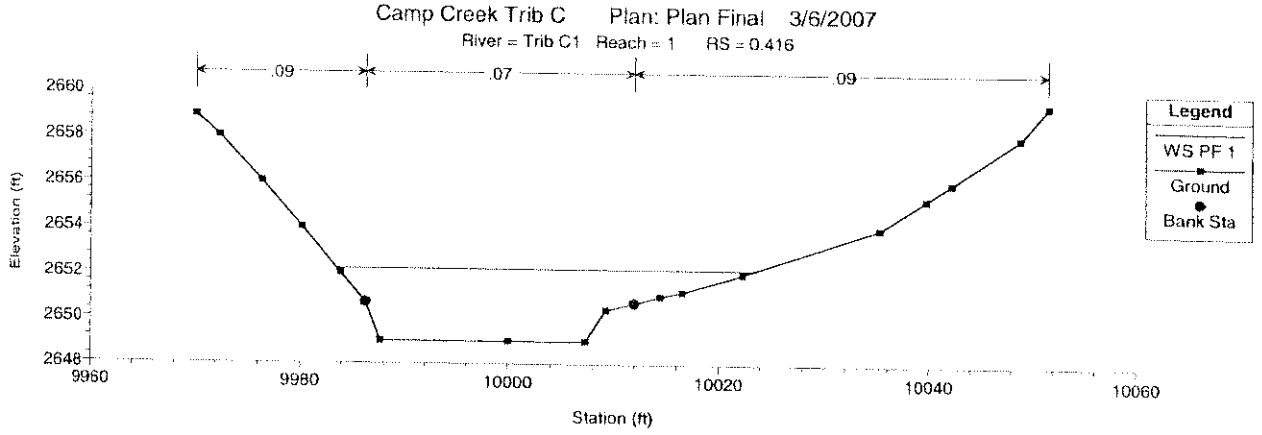
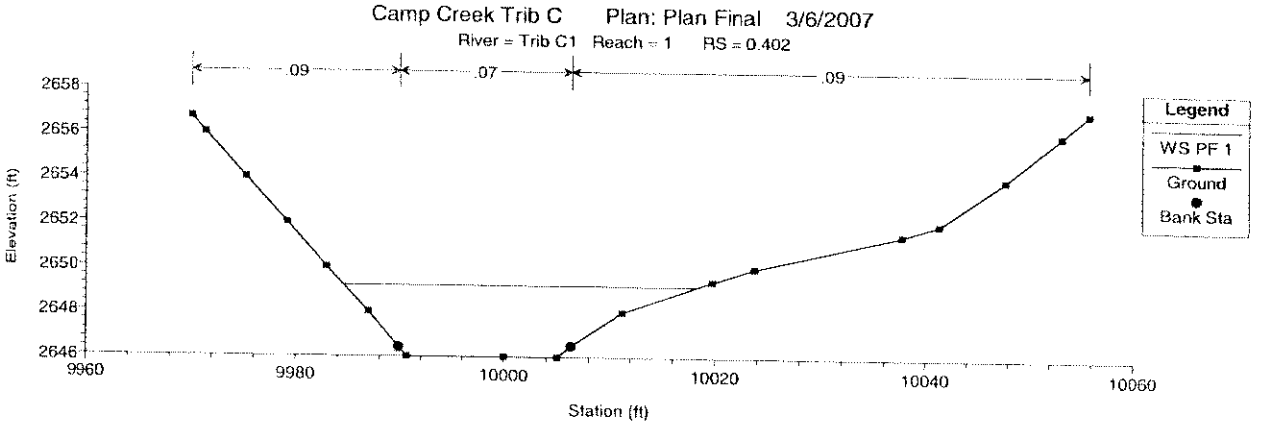
.07
.09
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 0.464
.09
.07
.09
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 0.451
.09
.07
.09
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 0.434
.09
.07
.09
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 0.416
.09
.07
.09
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 0.402
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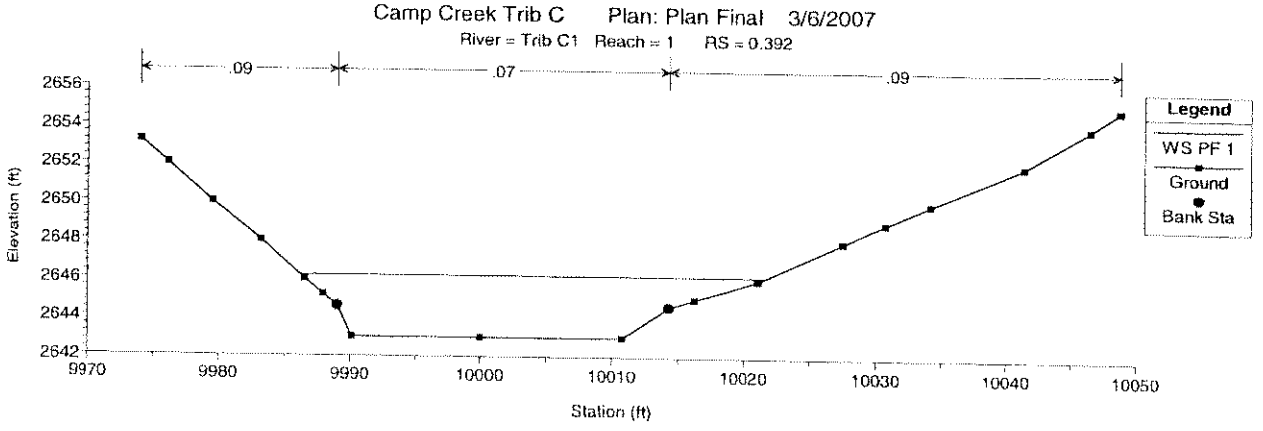
.07
.09
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 0.392
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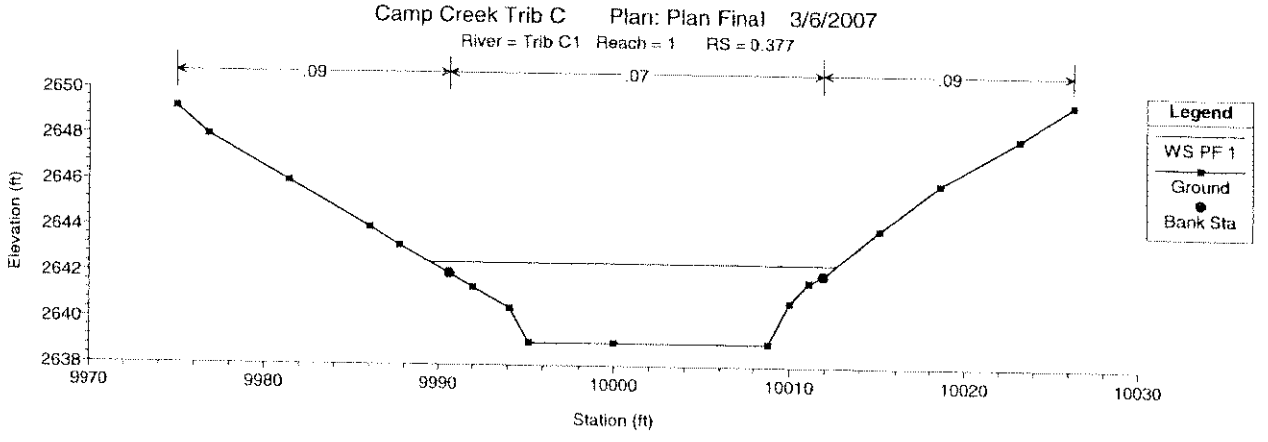
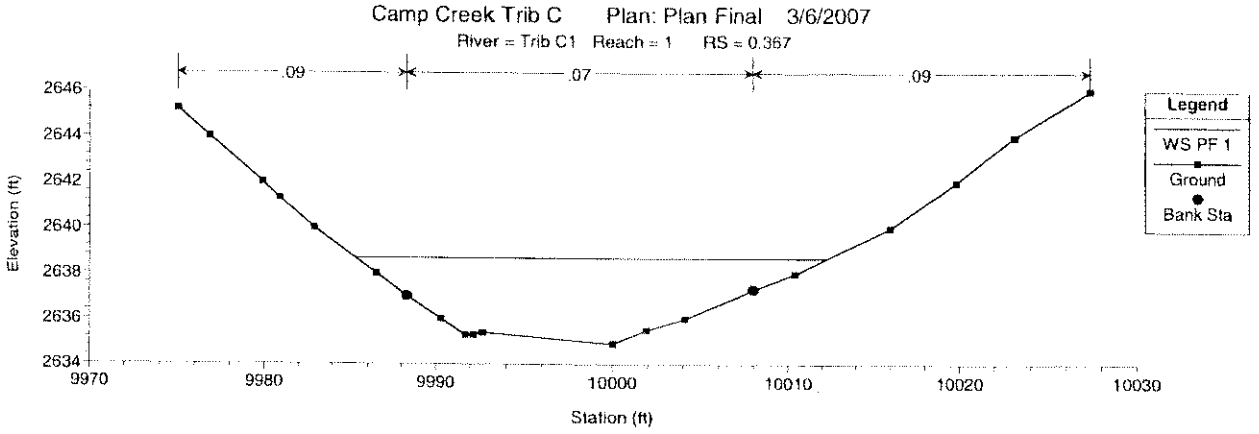
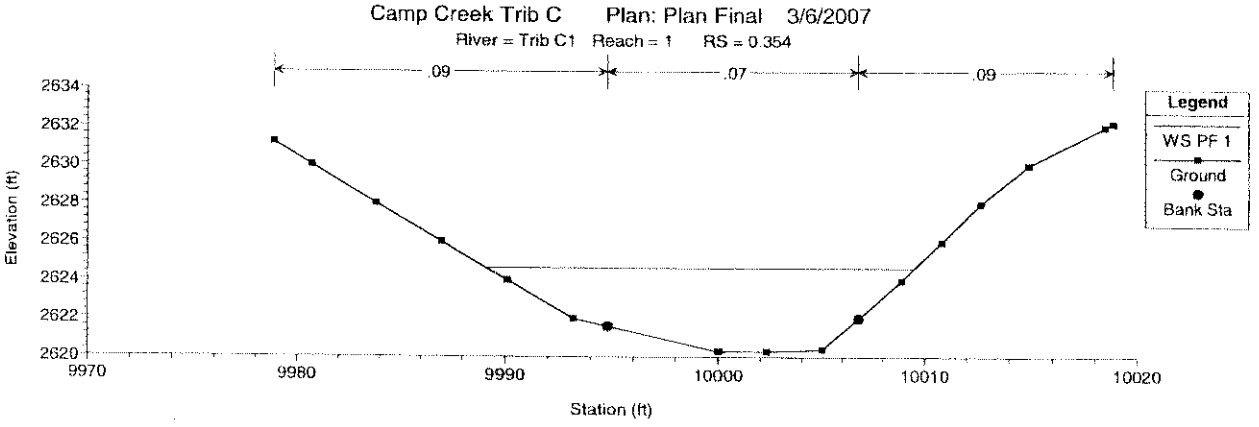
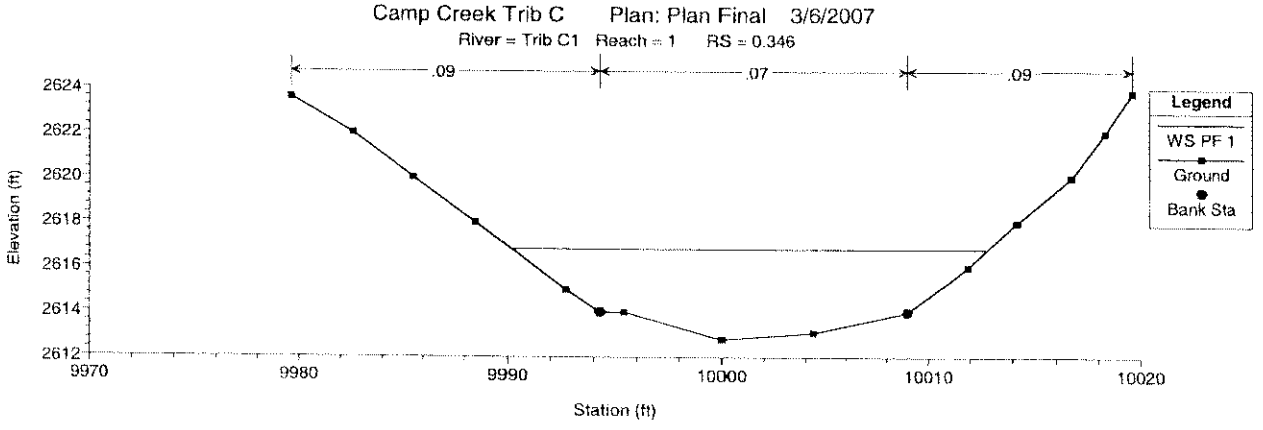
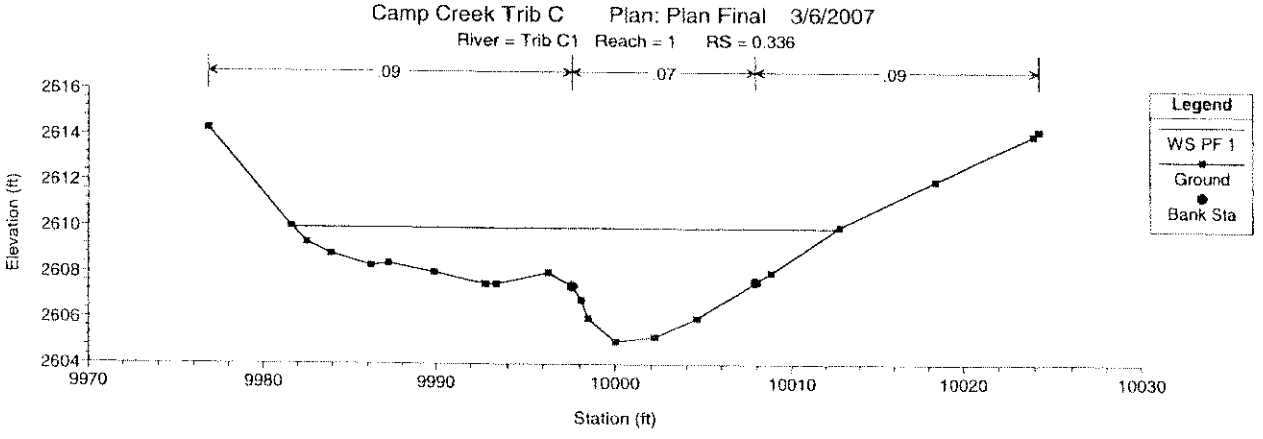
.07
.09
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

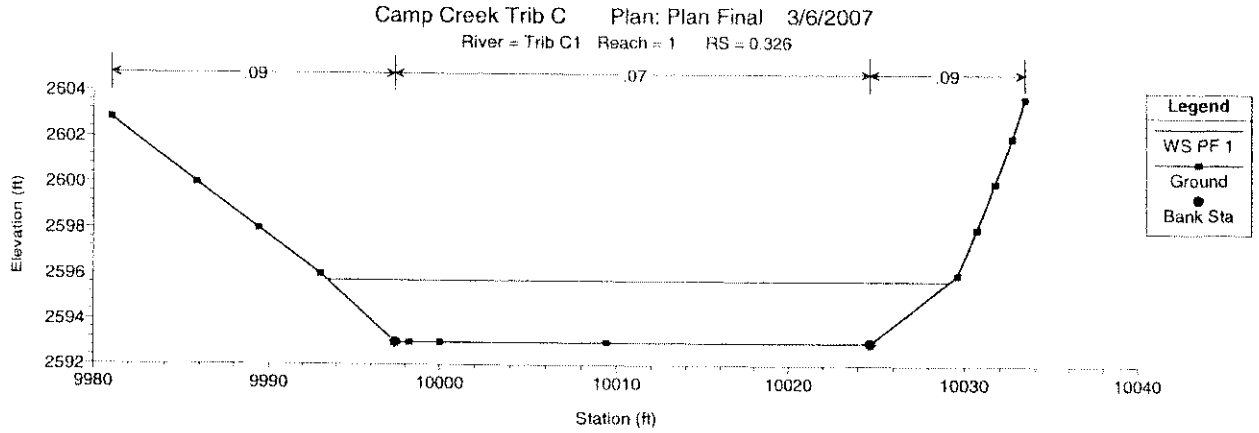

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 0.377
.09
.07
.09
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

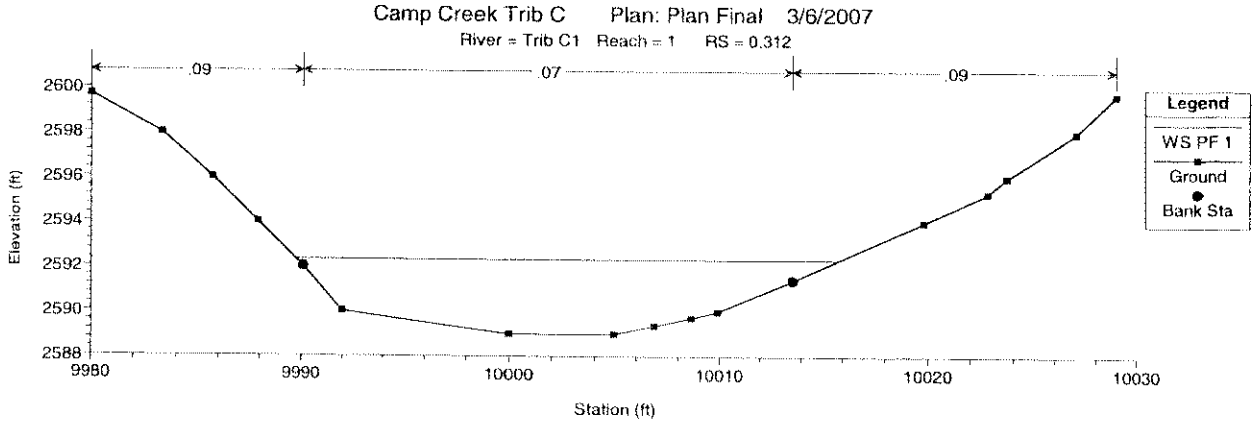

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 0.367
.09
.07
.09
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

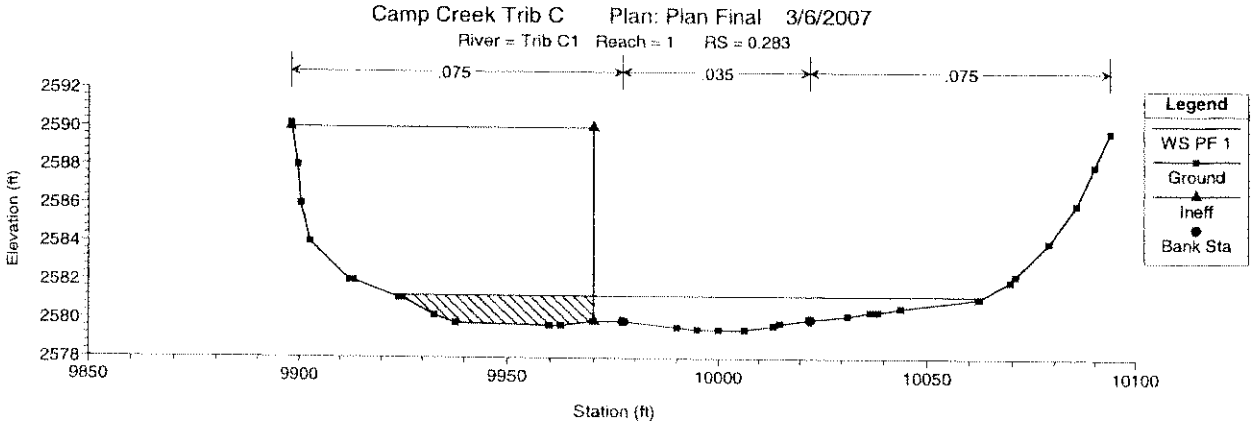

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 0.354
.09
.07
.09
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

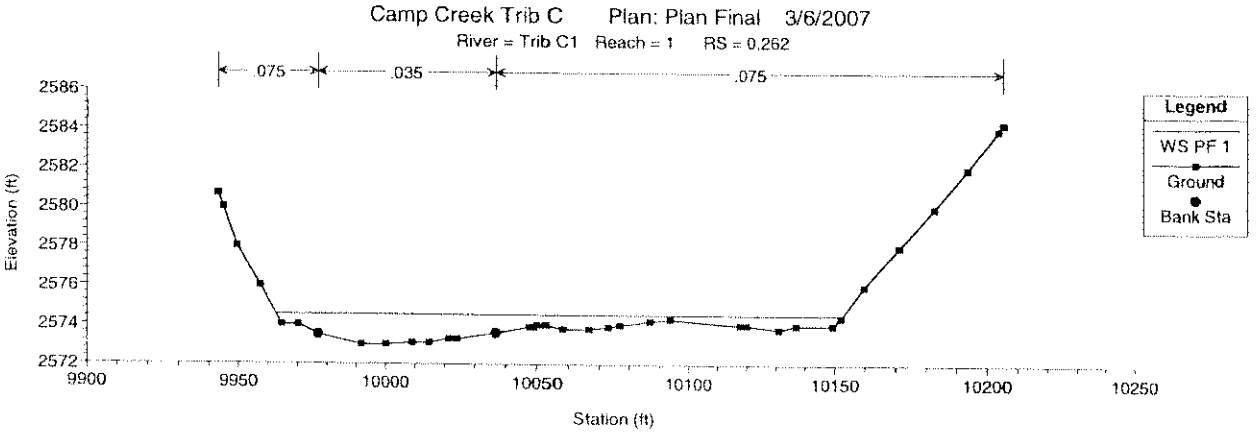

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 0.346
.09
.07
.09
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

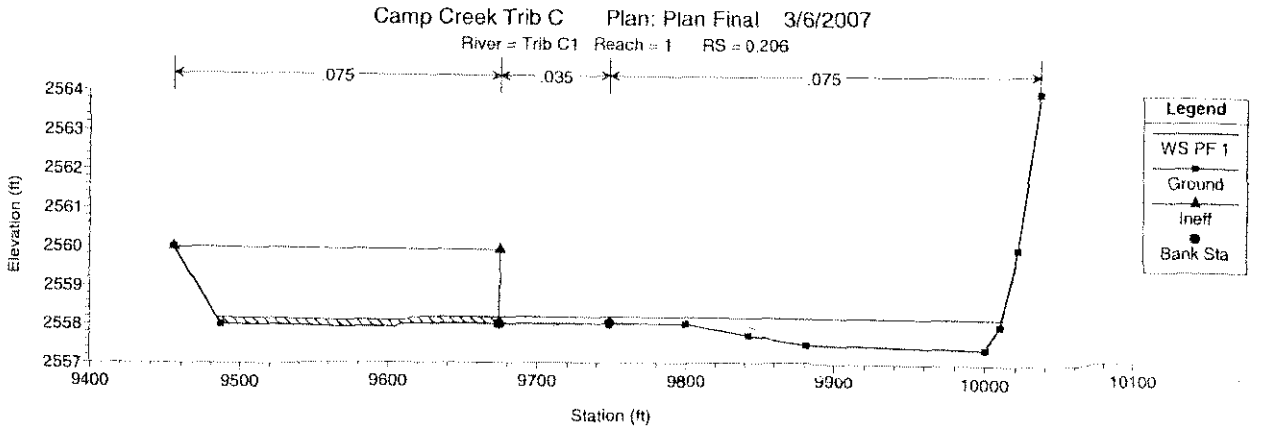

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 0.336
.09
.07
.09
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

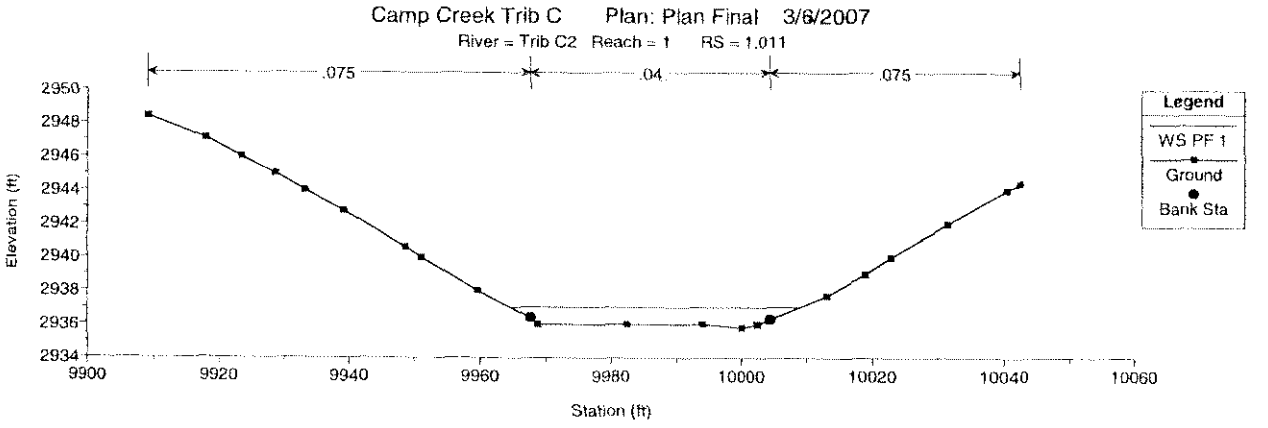

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 0.326
.09
.07
.09
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

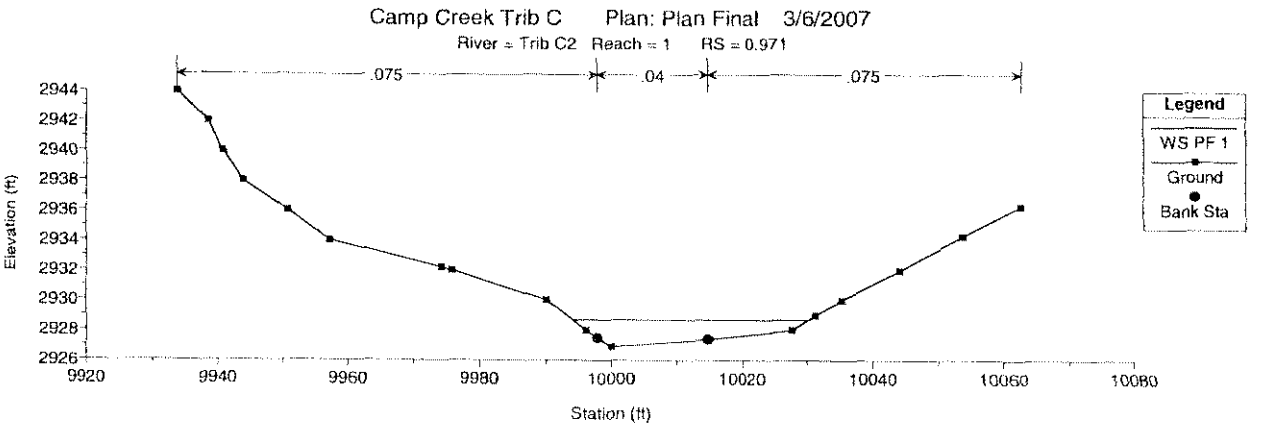

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 0.312
.09
.07
.09
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

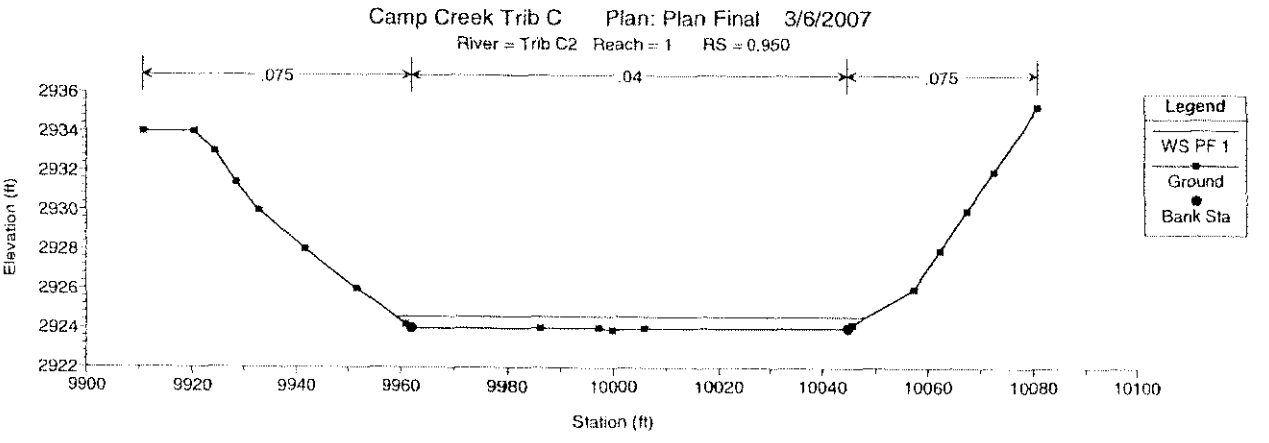

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 0.283
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Ineff
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 0.262
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C1 Reach = 1 RS = 0.206
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Ineff
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C2 Reach = 1 RS = 1.011
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C2 Reach = 1 RS = 0.971
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C2 Reach = 1 RS = 0.950
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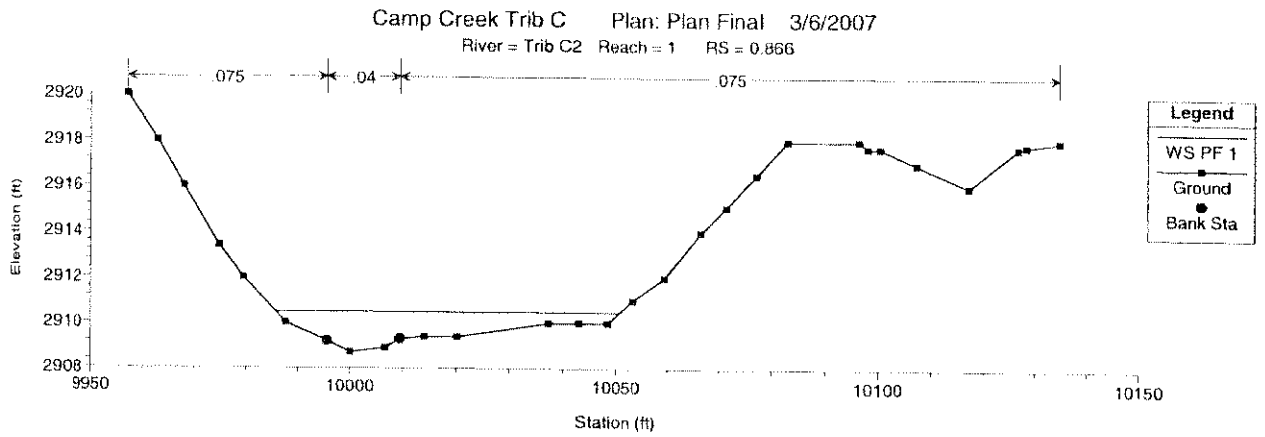
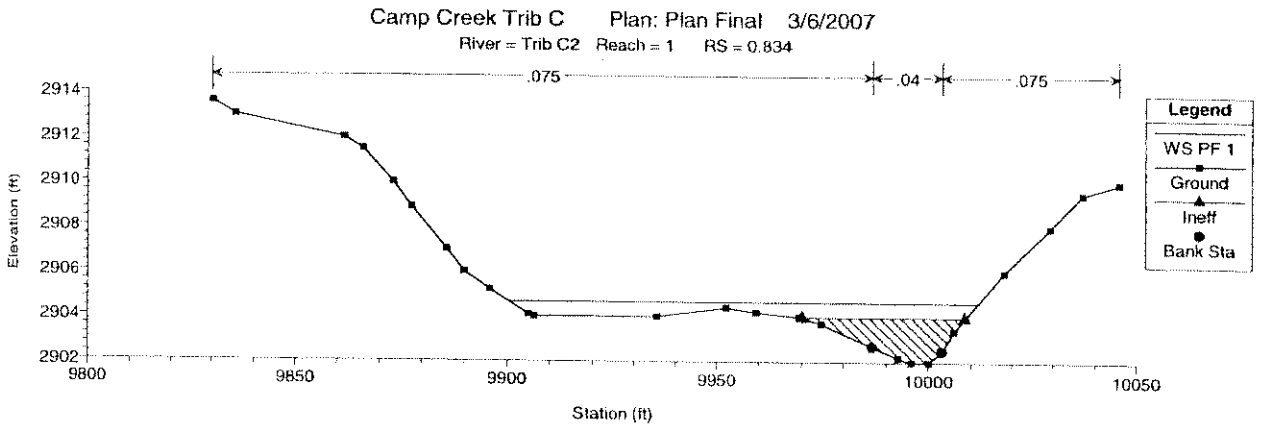
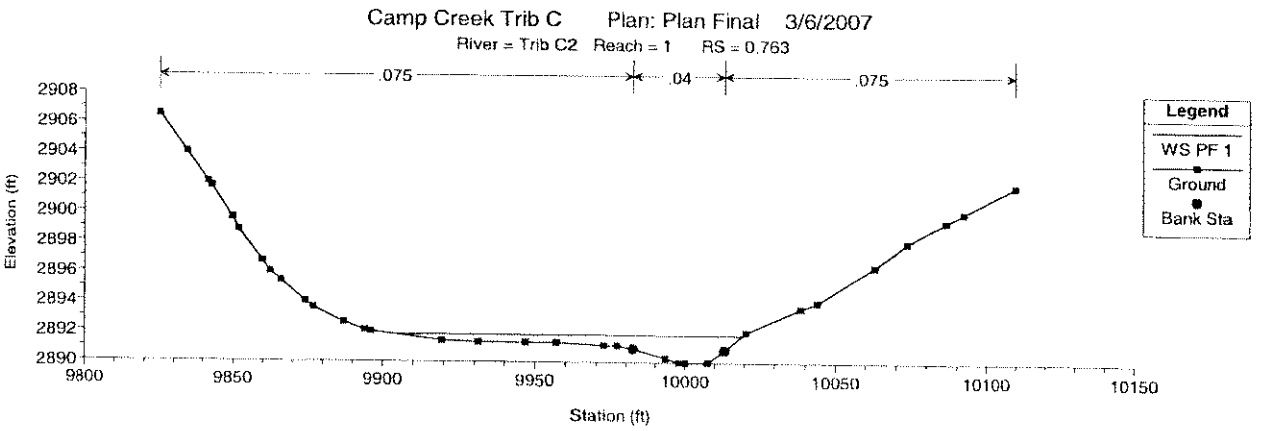
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C2 Reach = 1 RS = 0.866
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C2 Reach = 1 RS = 0.834
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Ineff
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C2 Reach = 1 RS = 0.763
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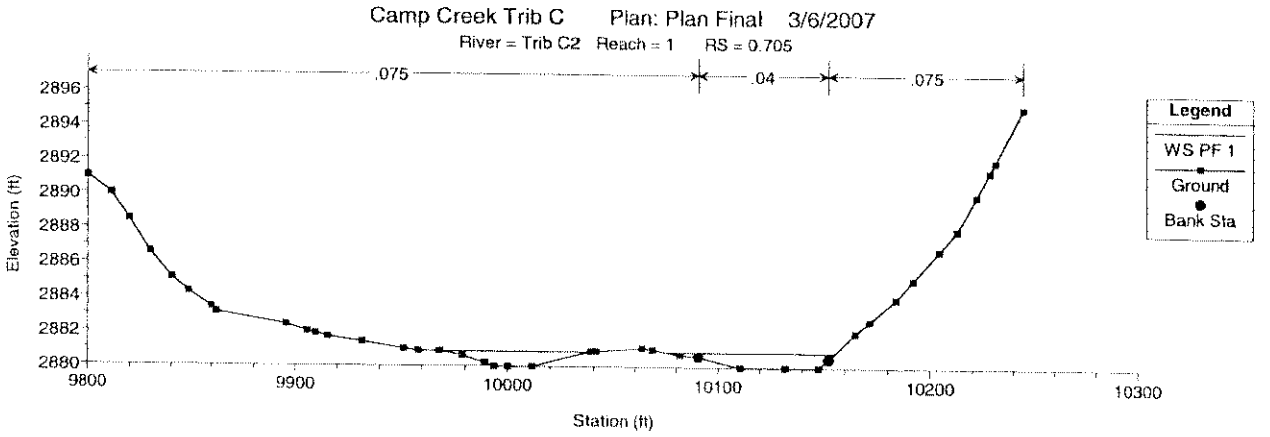
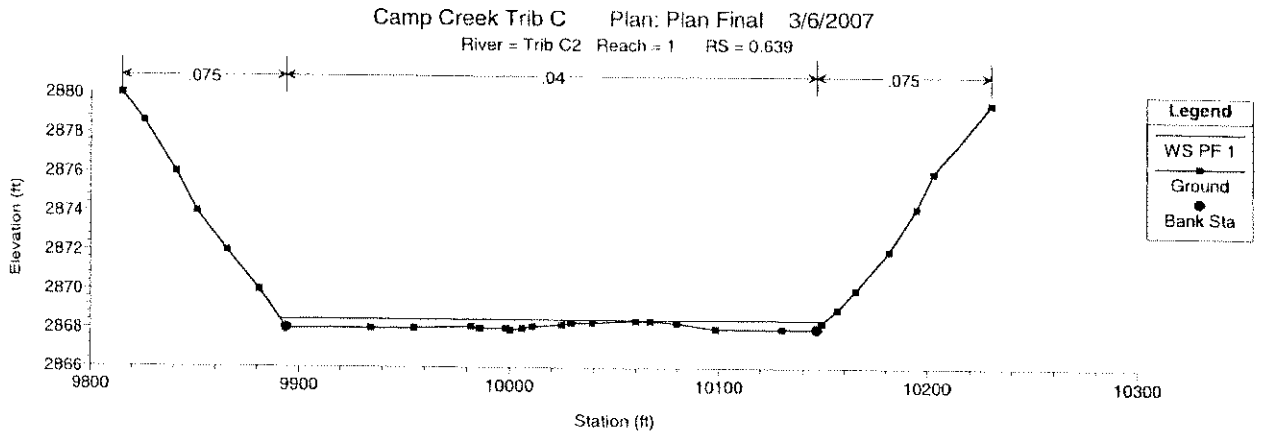
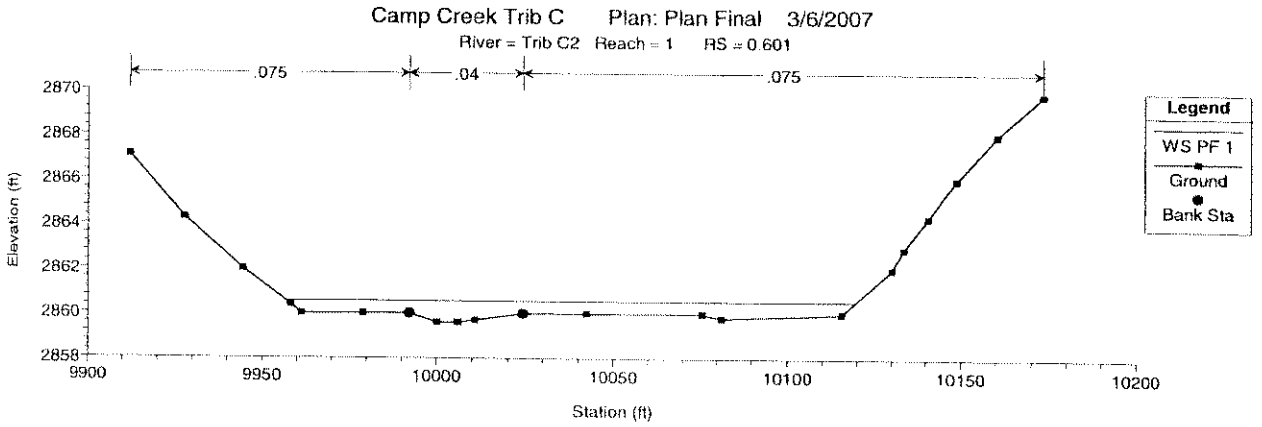
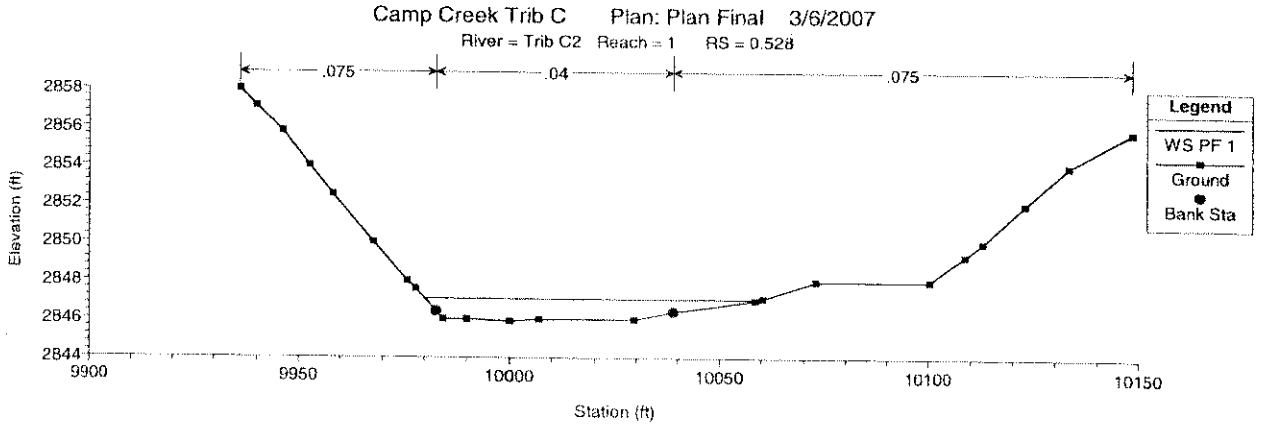
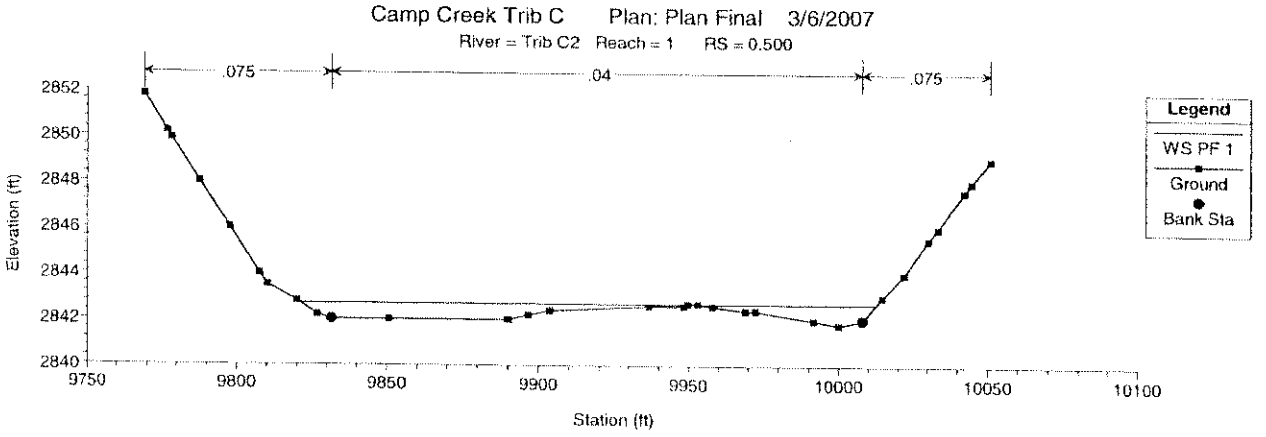
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

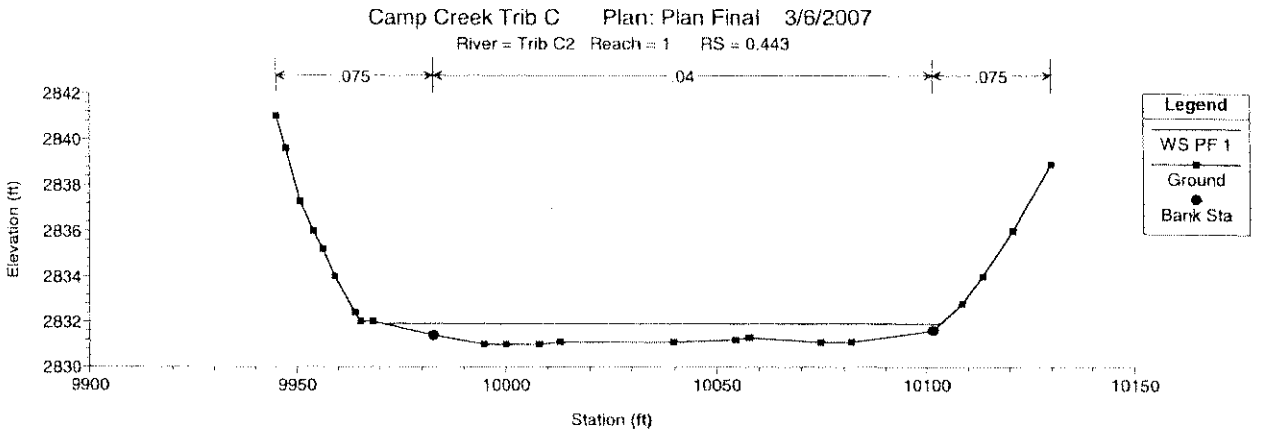

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C2 Reach = 1 RS = 0.705
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

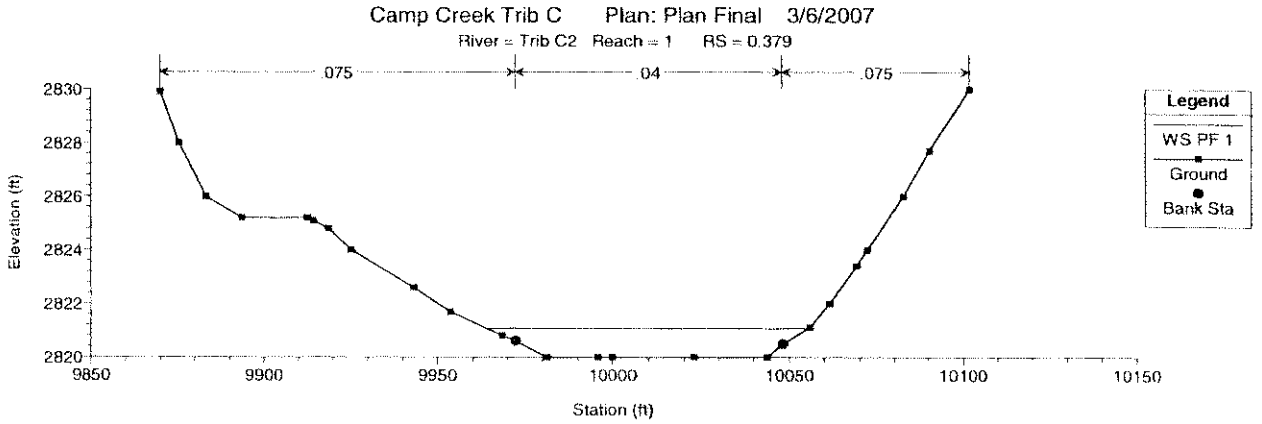

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C2 Reach = 1 RS = 0.639
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

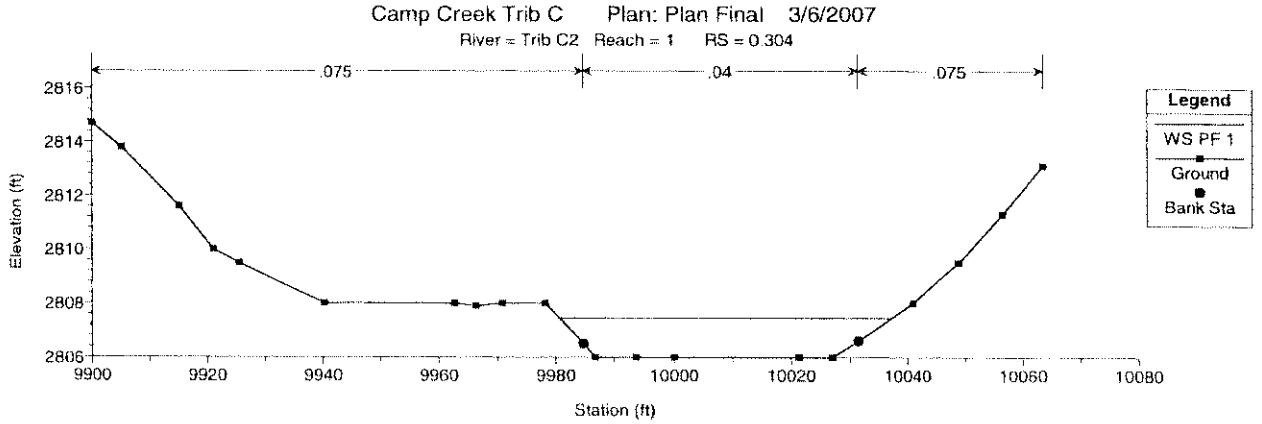

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C2 Reach = 1 RS = 0.601
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

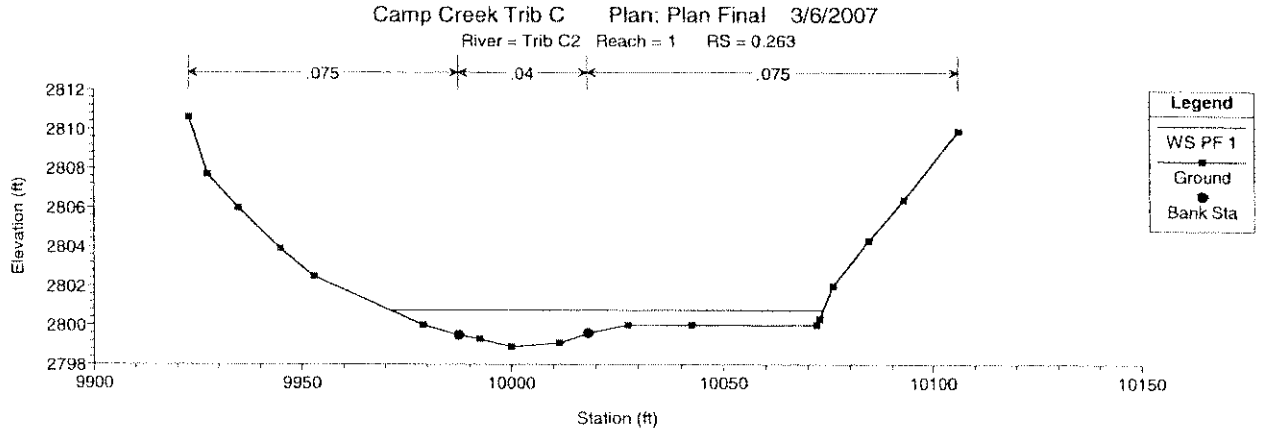

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C2 Reach = 1 RS = 0.528
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C2 Reach = 1 RS = 0.500
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

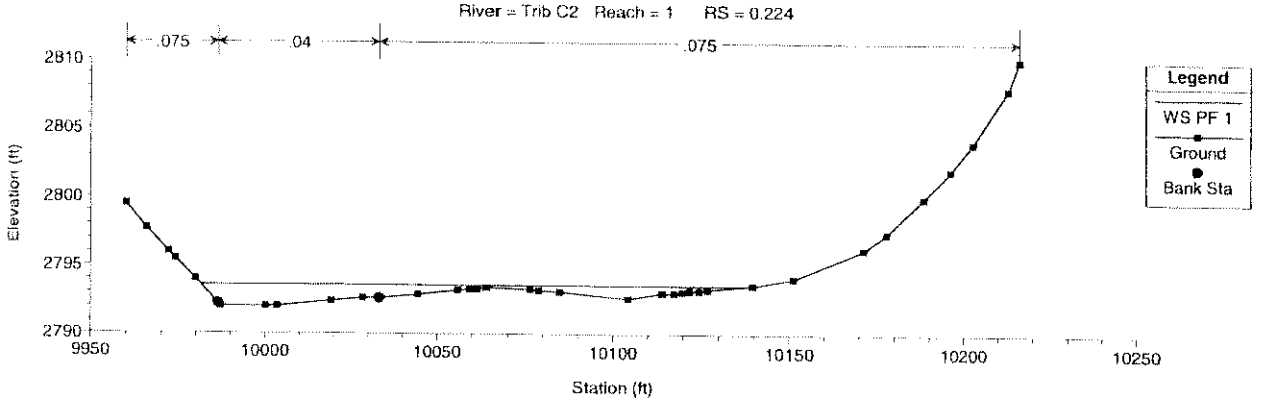

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C2 Reach = 1 RS = 0.443
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C2 Reach = 1 RS = 0.379
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

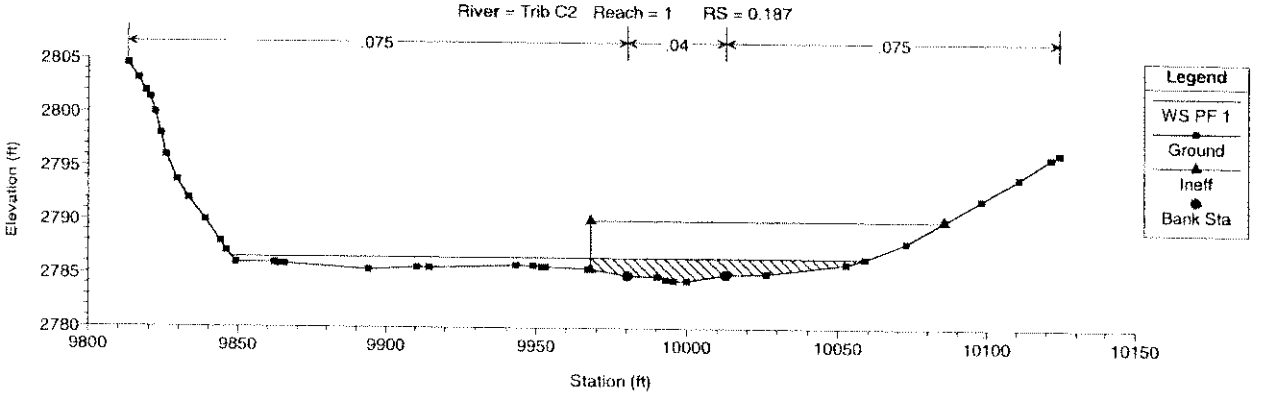

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C2 Reach = 1 RS = 0.304
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C2 Reach = 1 RS = 0.263
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

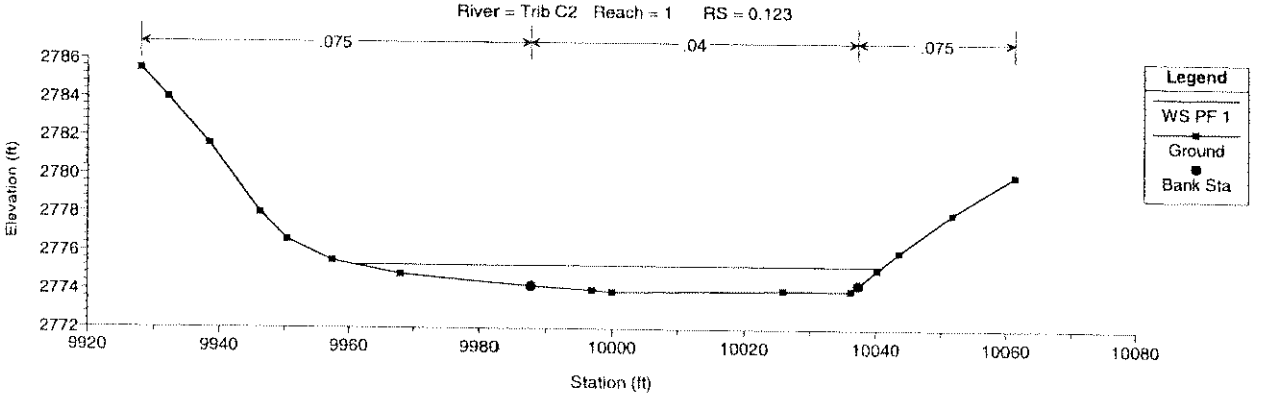
Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C2 Reach = 1 RS = 0.224



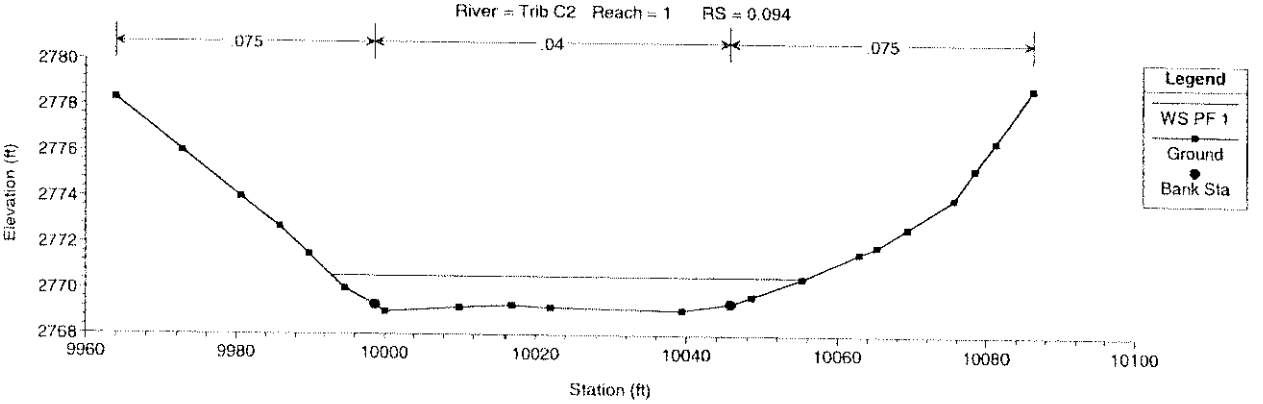
Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C2 Reach = 1 RS = 0.187



Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C2 Reach = 1 RS = 0.123

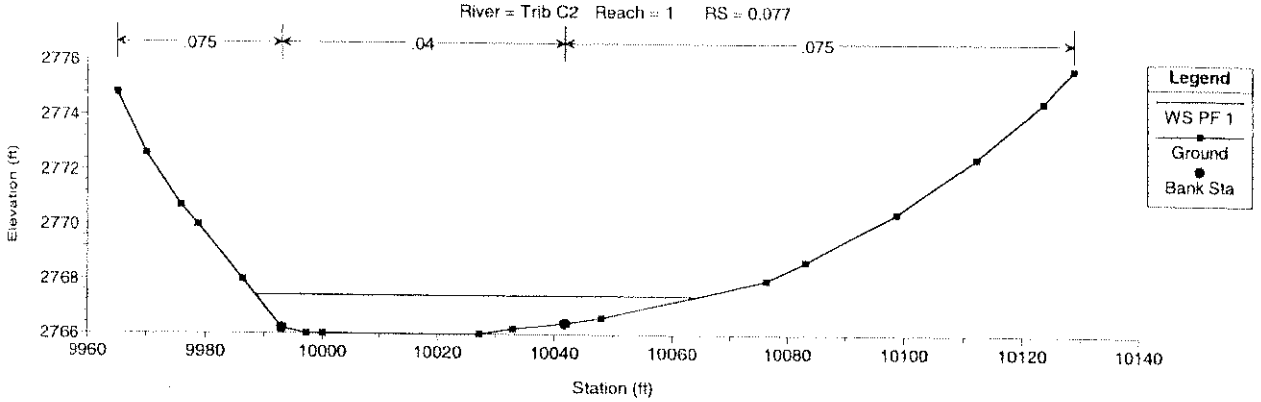


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C2 Reach = 1 RS = 0.094



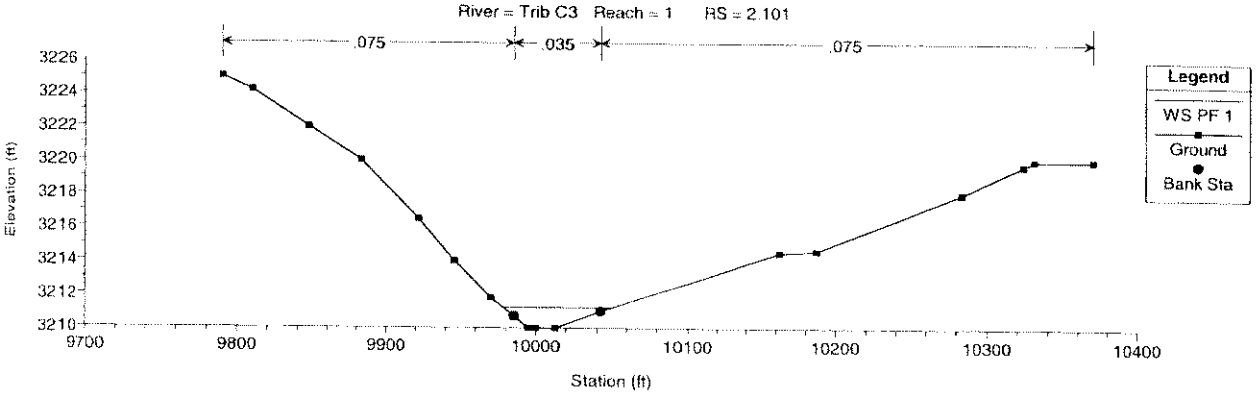
Camp Creek Trib C Plan: Plan Final 3/6/2007

River = Trib C2 Reach = 1 RS = 0.077



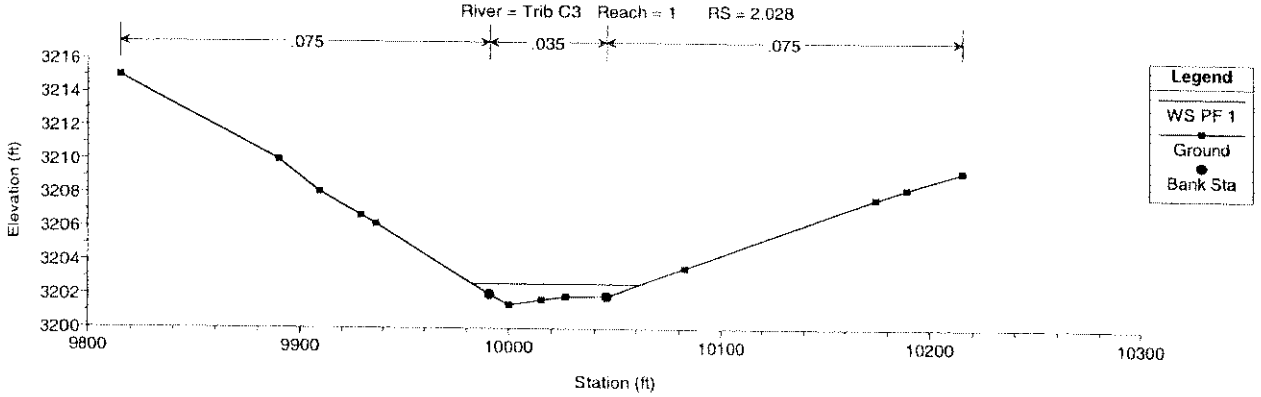
Camp Creek Trib C Plan: Plan Final 3/6/2007

River = Trib C3 Reach = 1 RS = 2.101



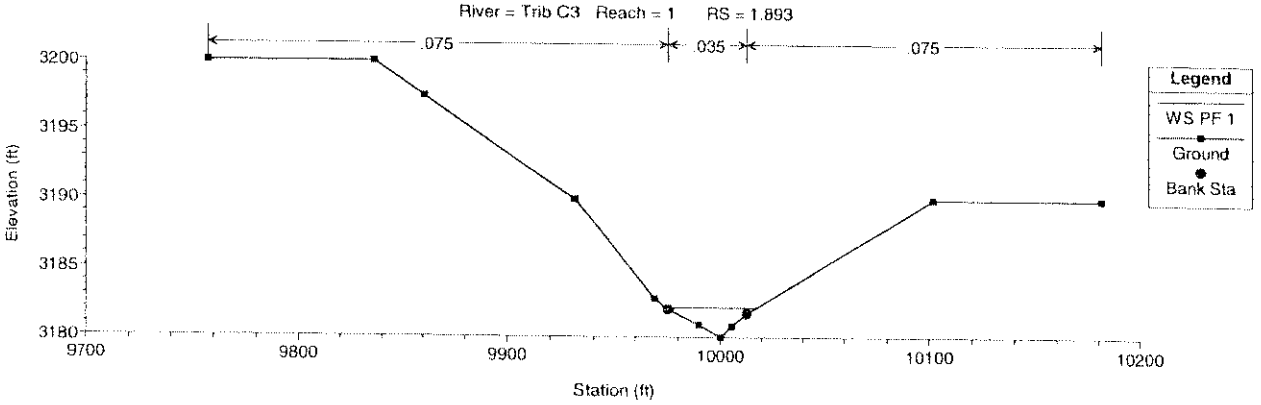
Camp Creek Trib C Plan: Plan Final 3/6/2007

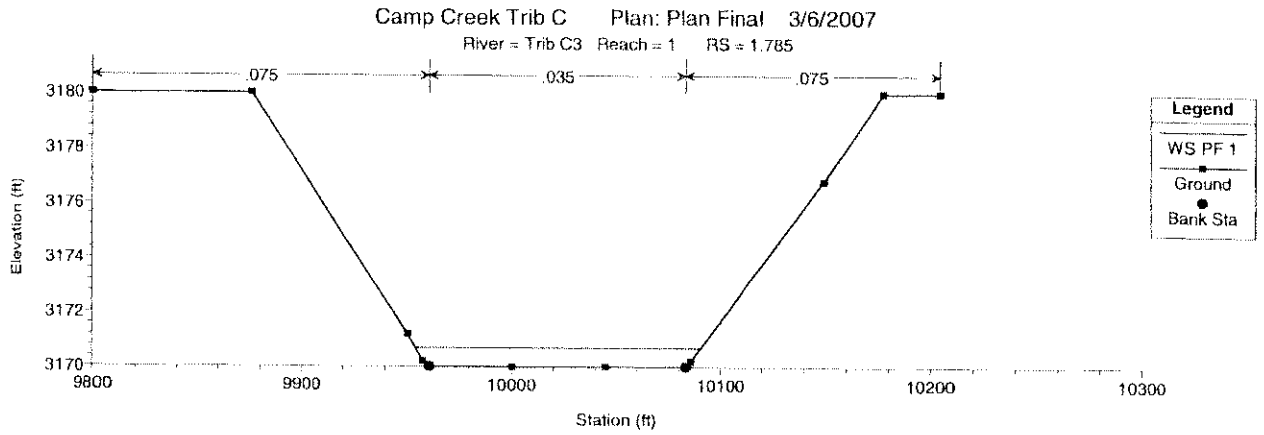
River = Trib C3 Reach = 1 RS = 2.028

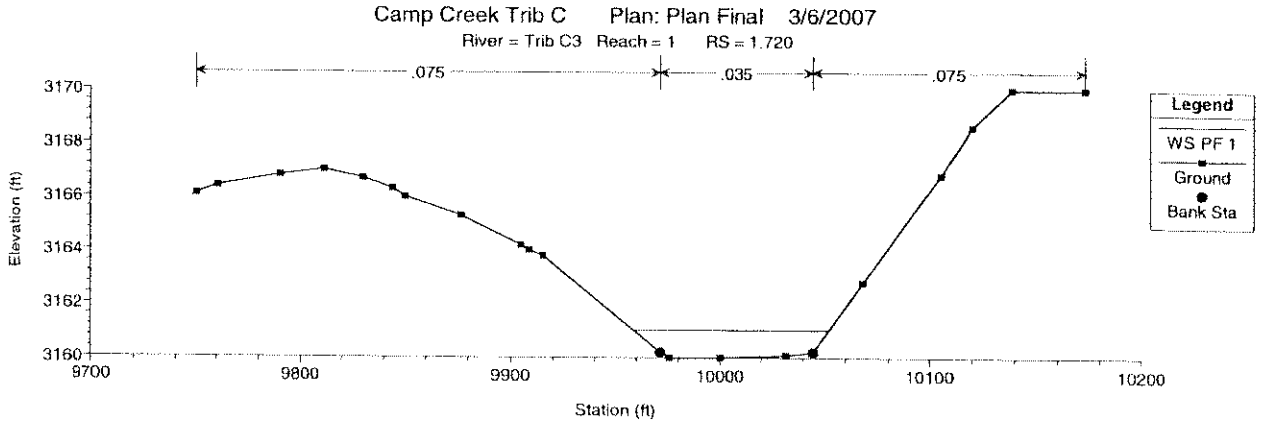


Camp Creek Trib C Plan: Plan Final 3/6/2007

River = Trib C3 Reach = 1 RS = 1.893




Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C3 Reach = 1 RS = 1.785
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C3 Reach = 1 RS = 1.720
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.035
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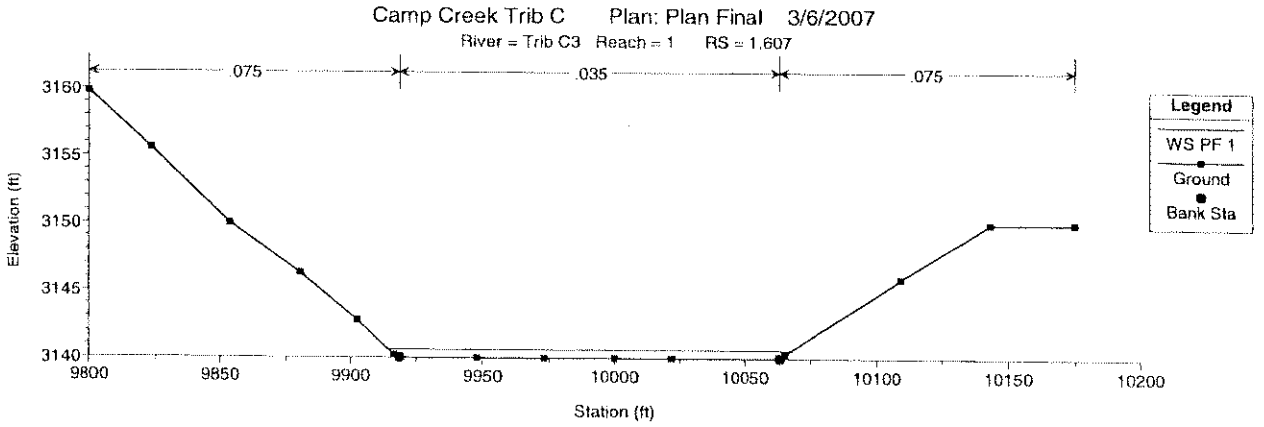
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C3 Reach = 1 RS = 1.607
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.035
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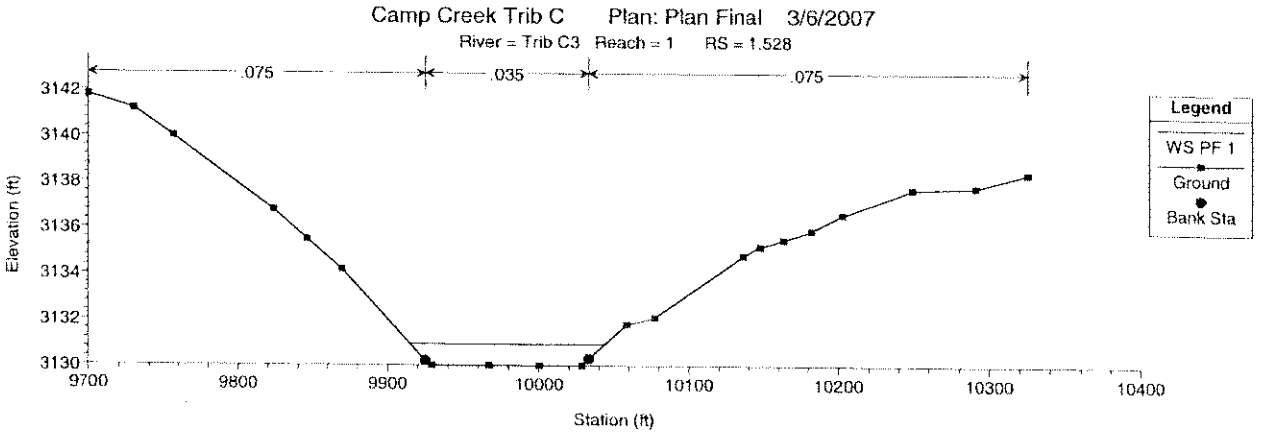
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C3 Reach = 1 RS = 1.528
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.035
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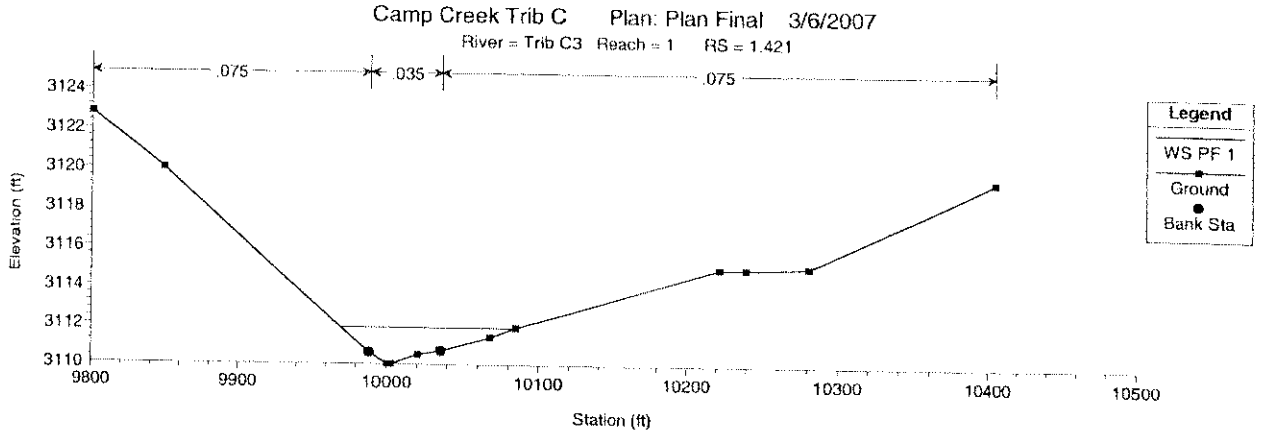
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C3 Reach = 1 RS = 1.421
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.035
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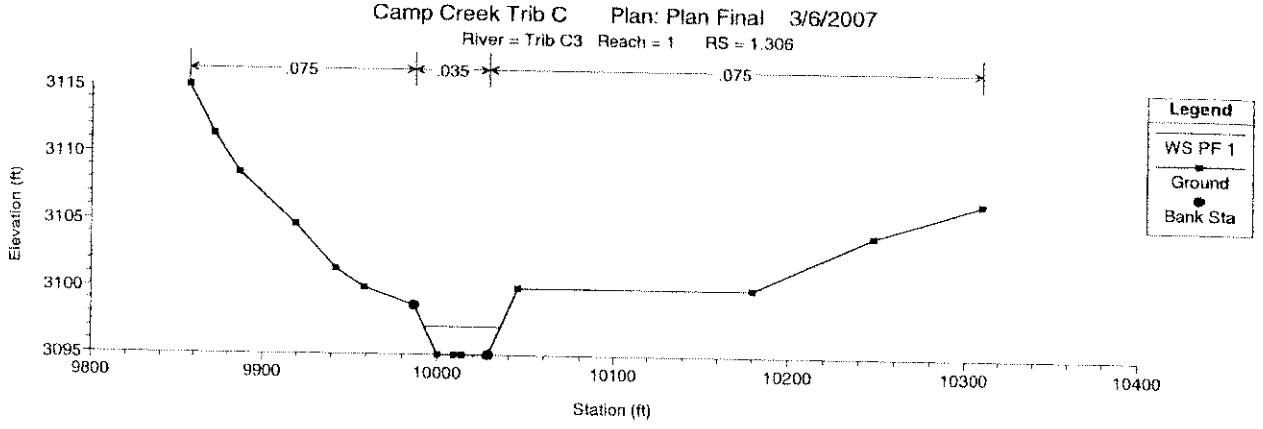
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C3 Reach = 1 RS = 1.306
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.035
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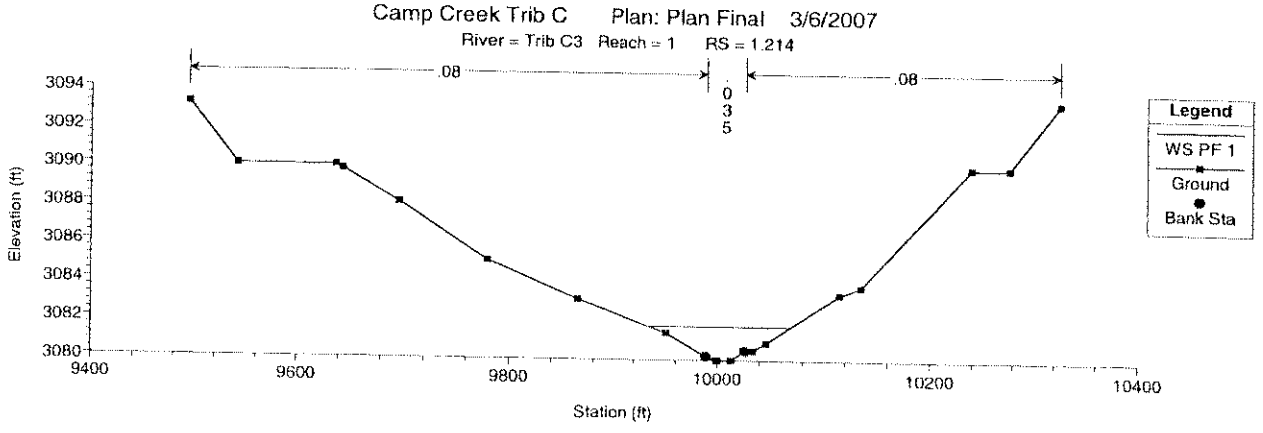
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C3 Reach = 1 RS = 1.214
.08
.035
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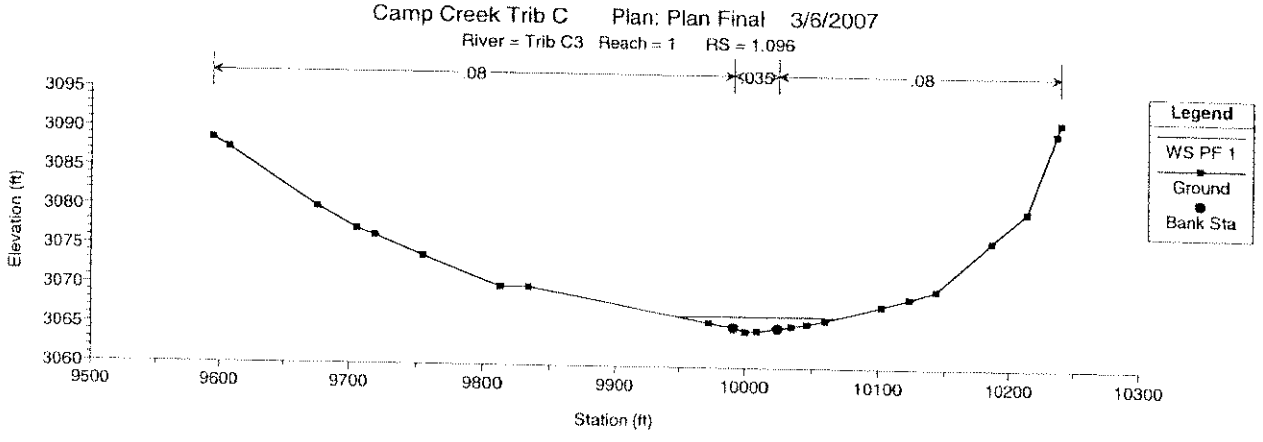
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C3 Reach = 1 RS = 1.096
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.035
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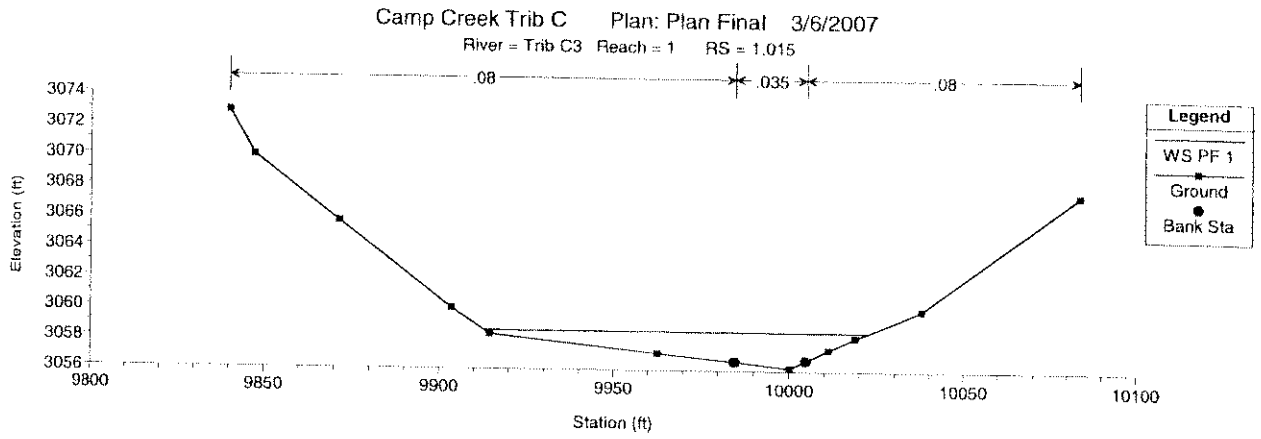
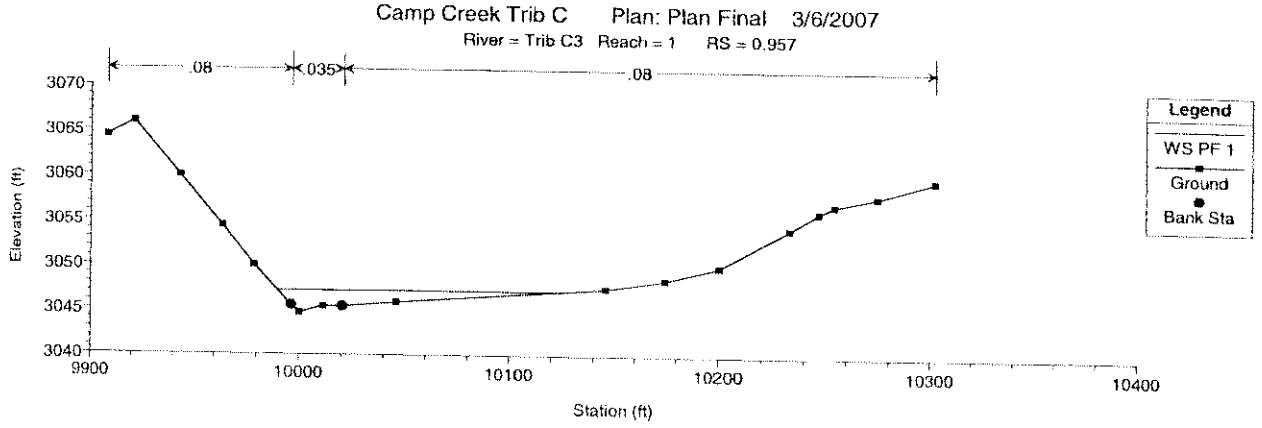
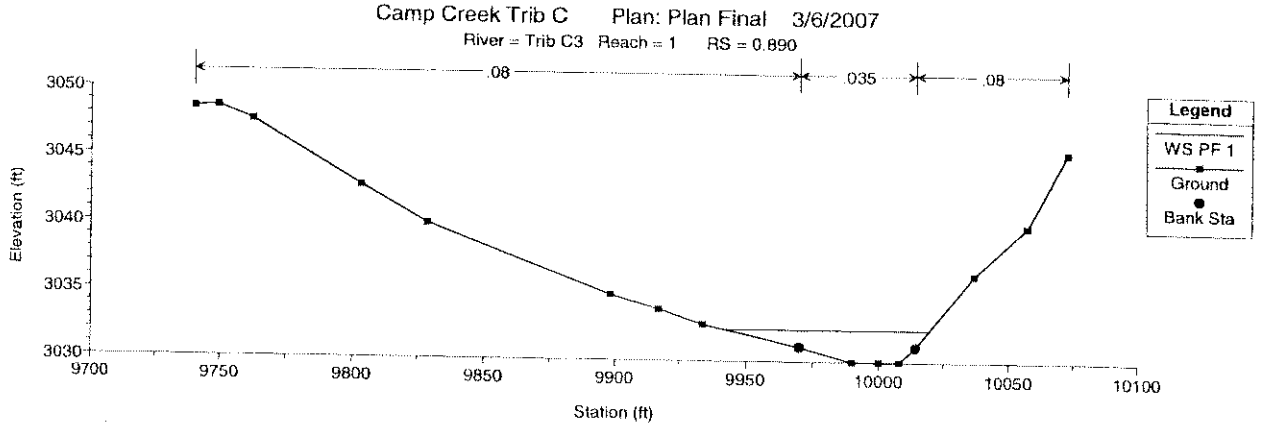
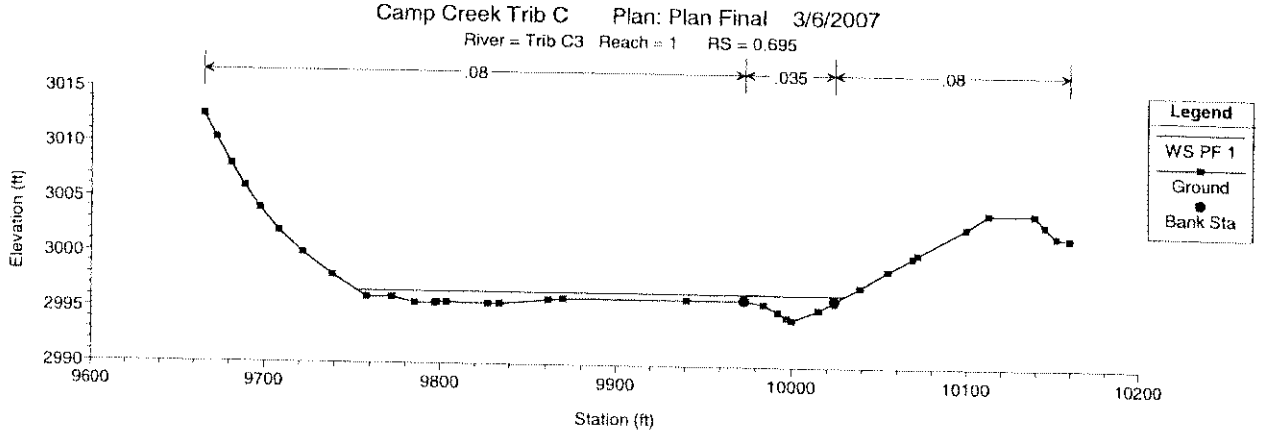
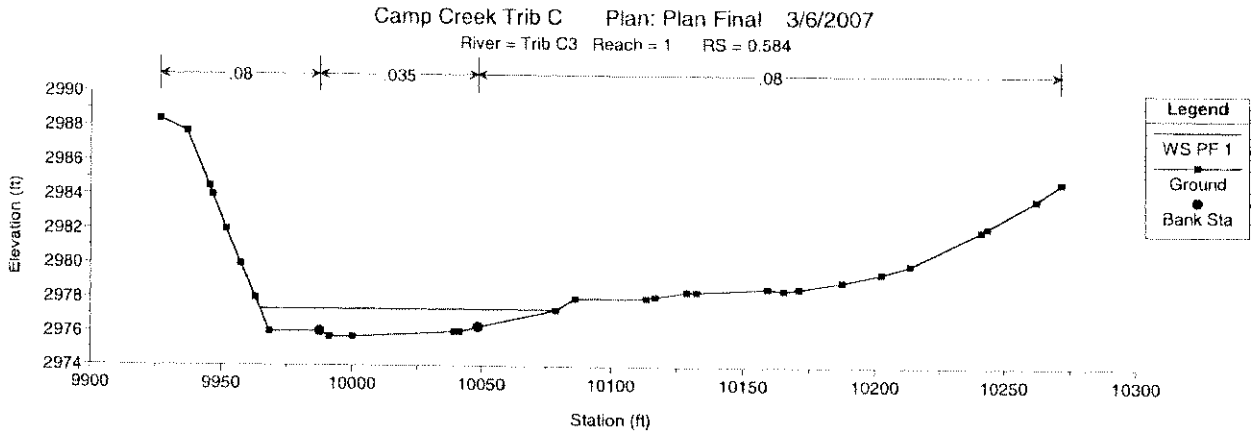
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

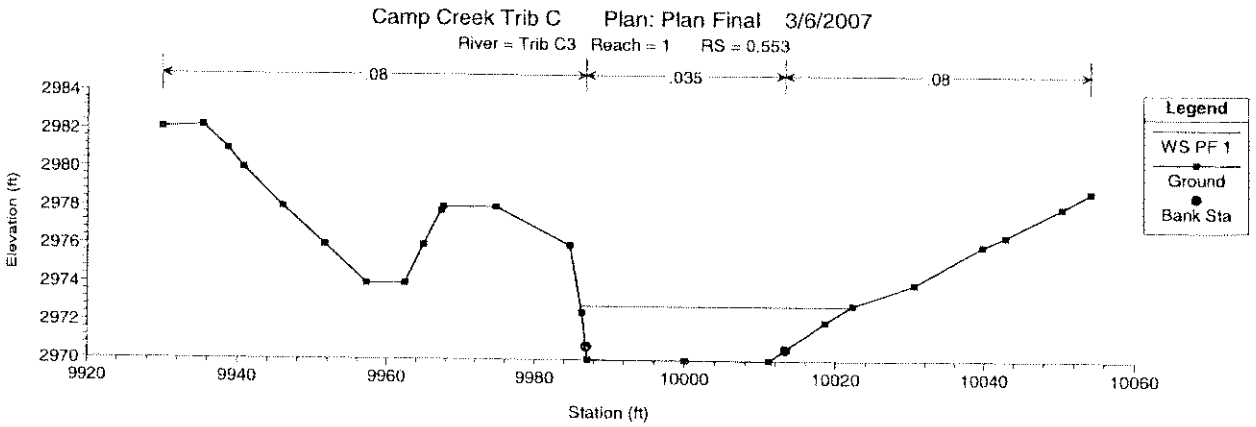

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C3 Reach = 1 RS = 1.015
.08
.035
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

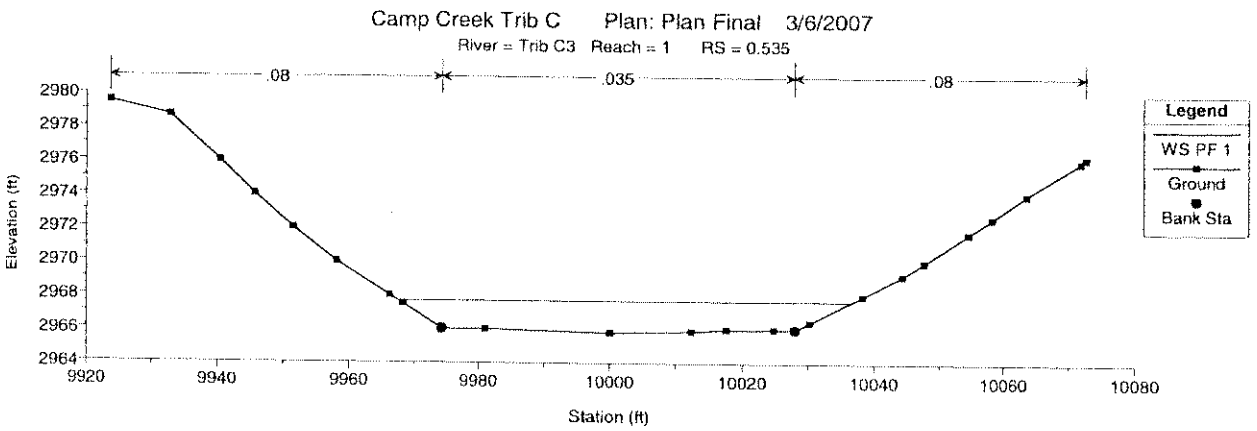

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C3 Reach = 1 RS = 0.957
.08
.035
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

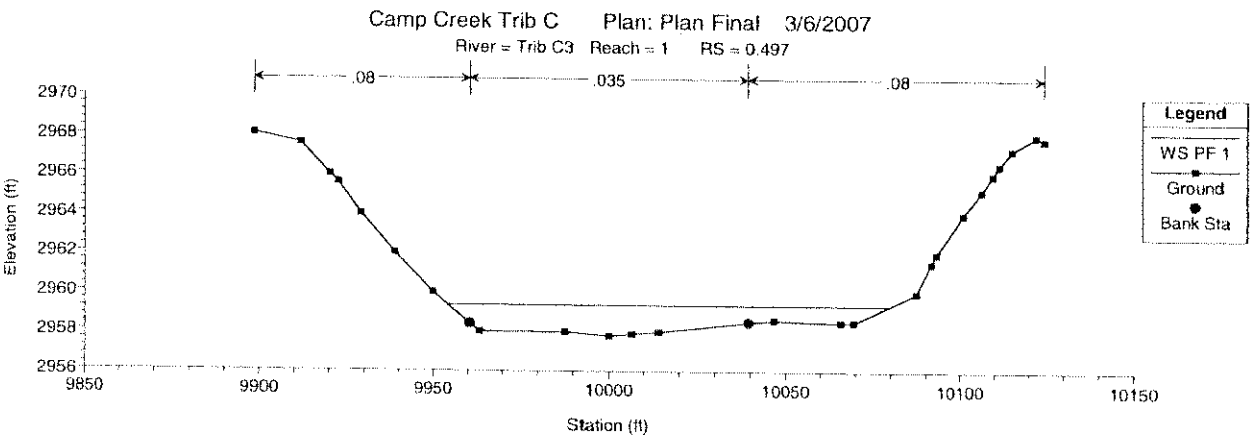

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C3 Reach = 1 RS = 0.890
.08
.035
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

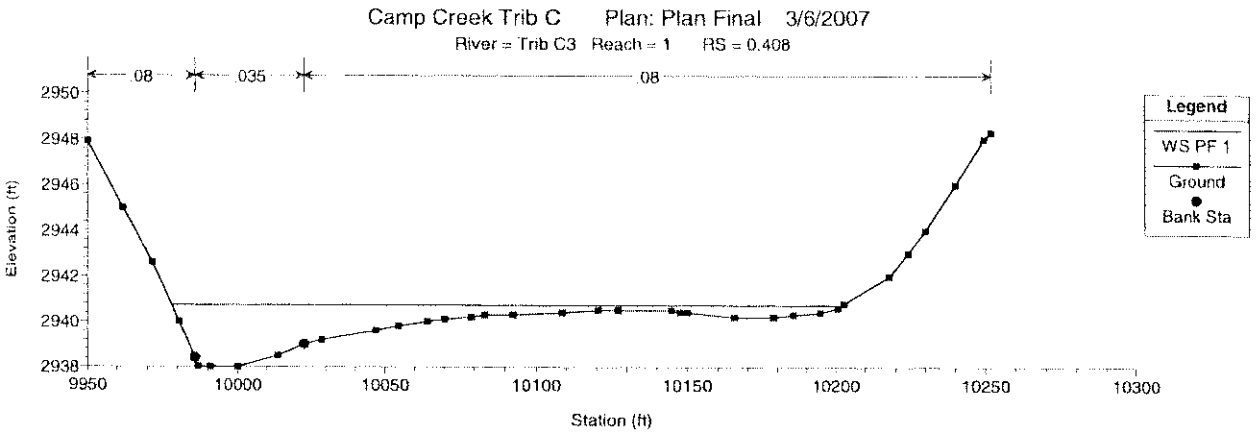

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C3 Reach = 1 RS = 0.695
.08
.035
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

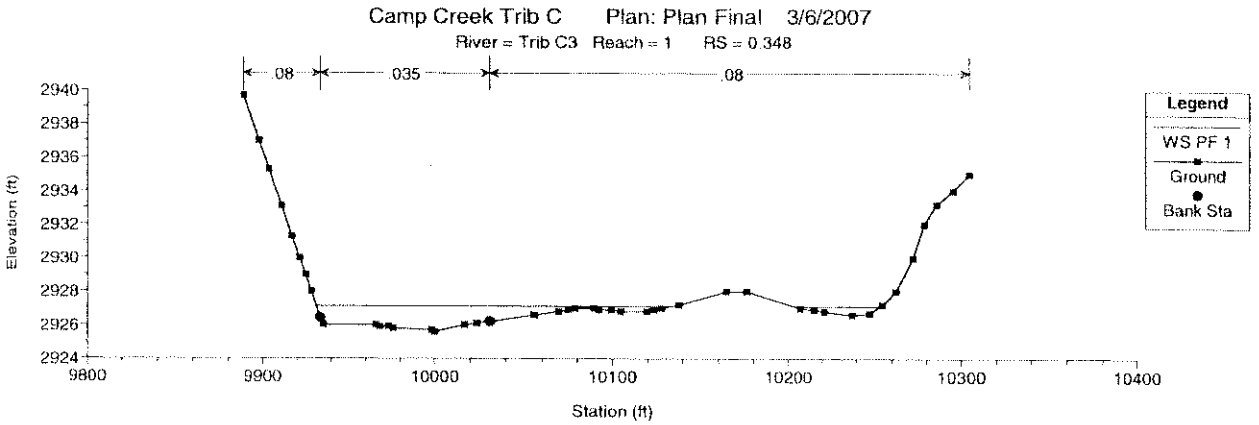

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C3 Reach = 1 RS = 0.584
.08
.035
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

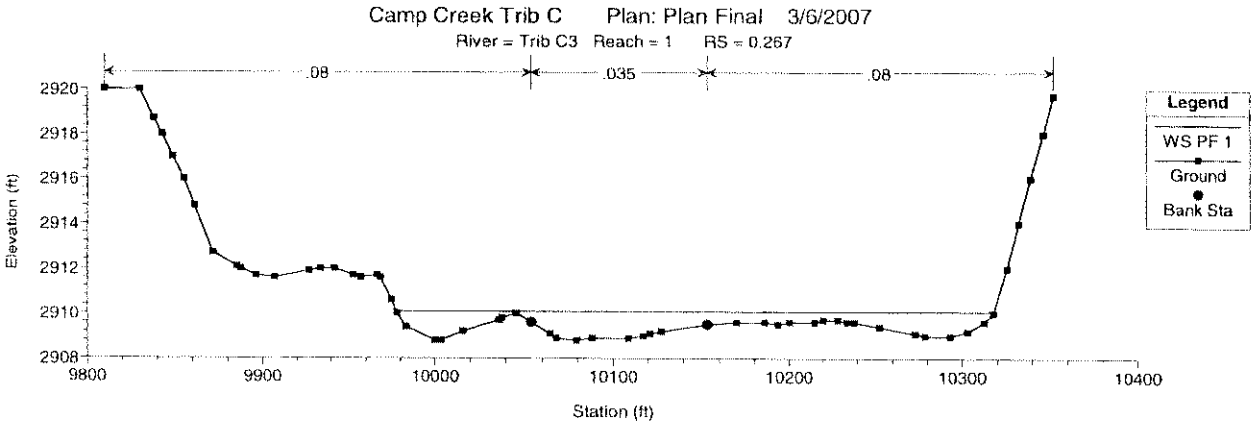

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C3 Reach = 1 RS = 0.553
.08
.035
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

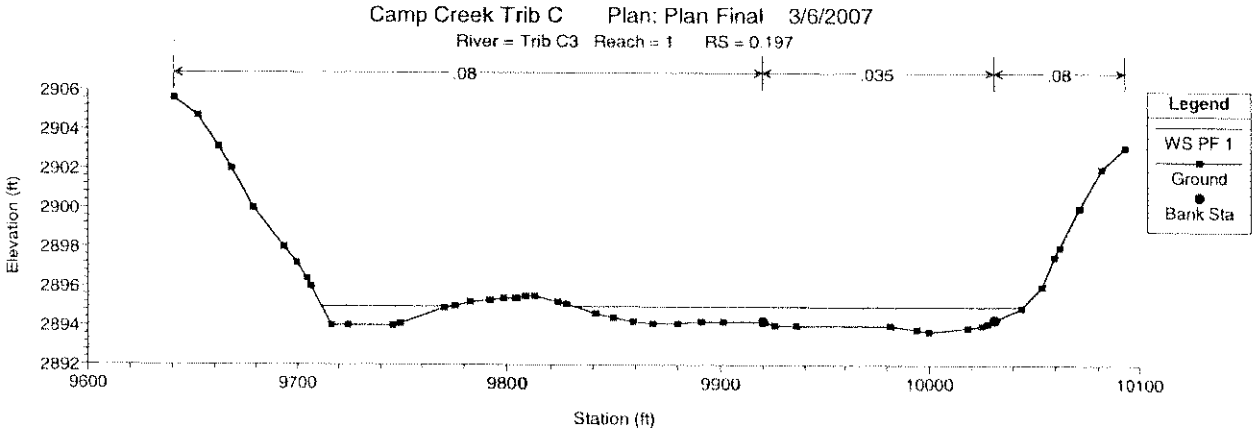

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C3 Reach = 1 RS = 0.535
.08
.035
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

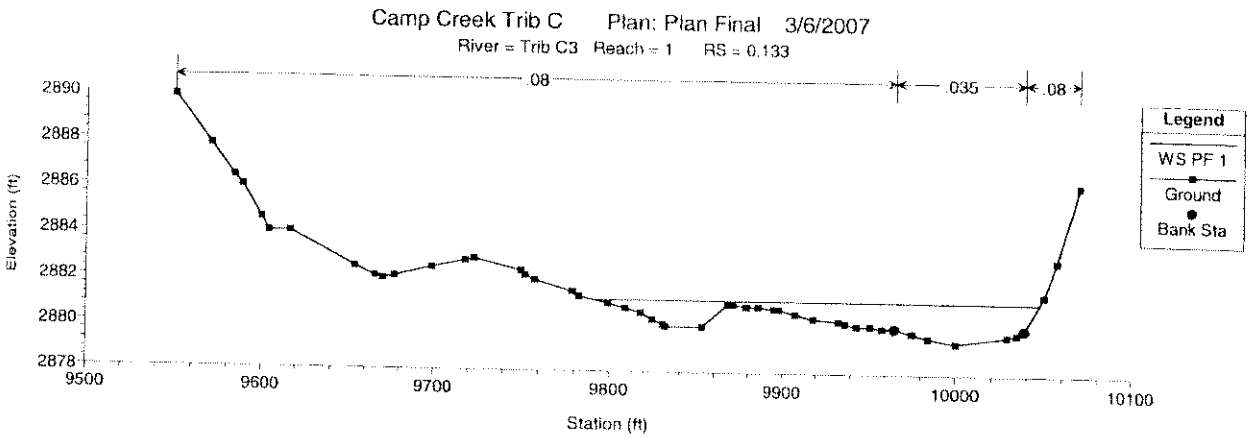

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C3 Reach = 1 RS = 0.497
.08
.035
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

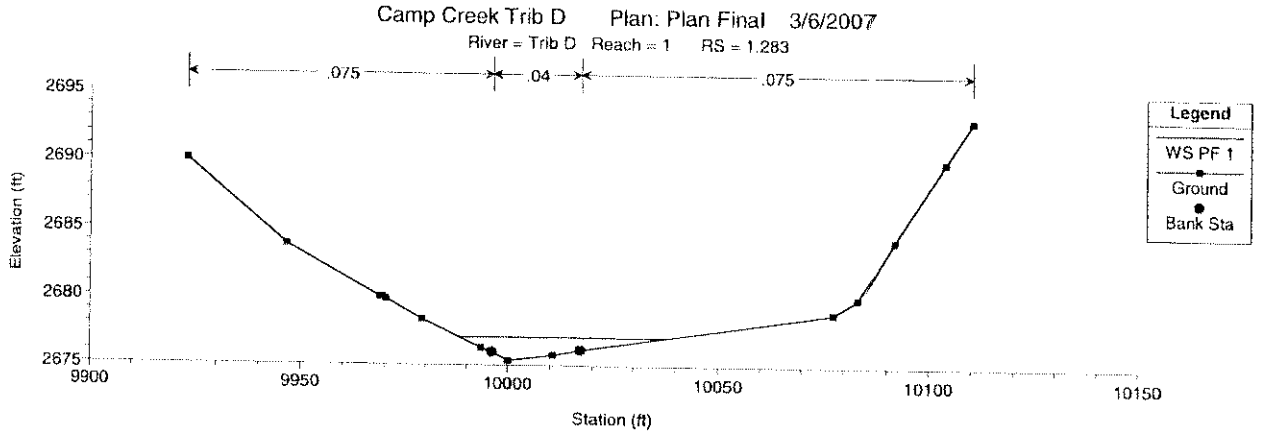

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C3 Reach = 1 RS = 0.408
.08
.035
.08
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

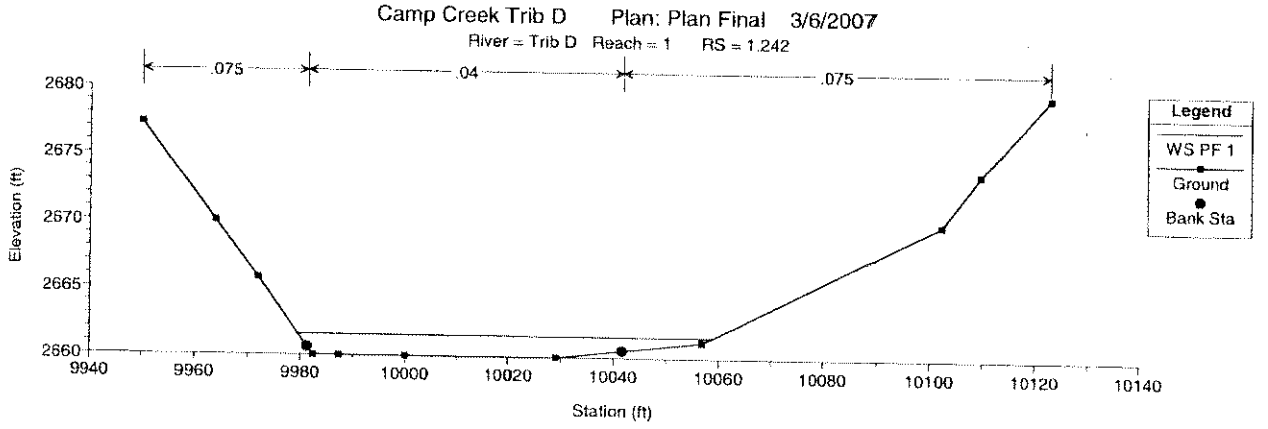

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C3 Reach = 1 RS = 0.348
.08
.035
.08
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

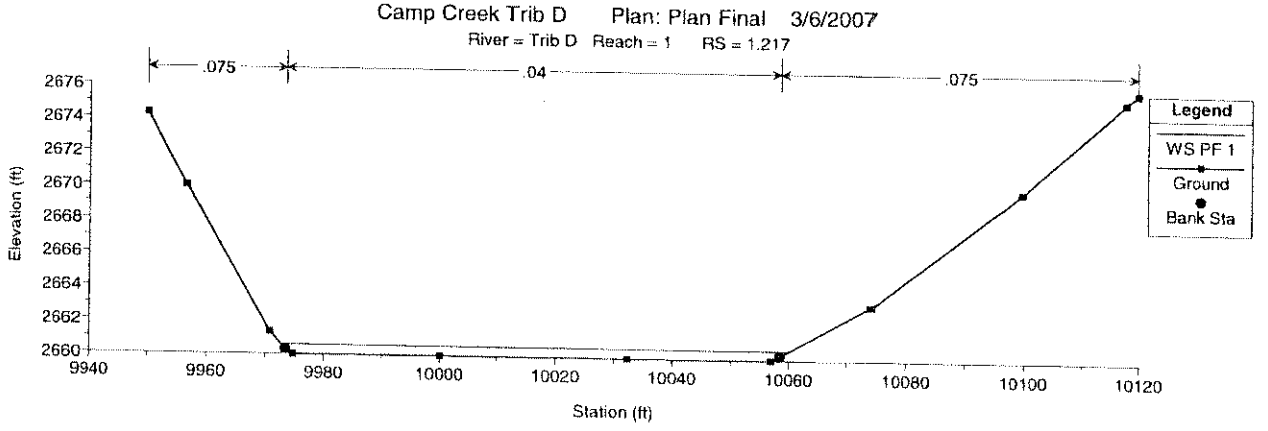

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C3 Reach = 1 RS = 0.267
.08
.035
.08
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

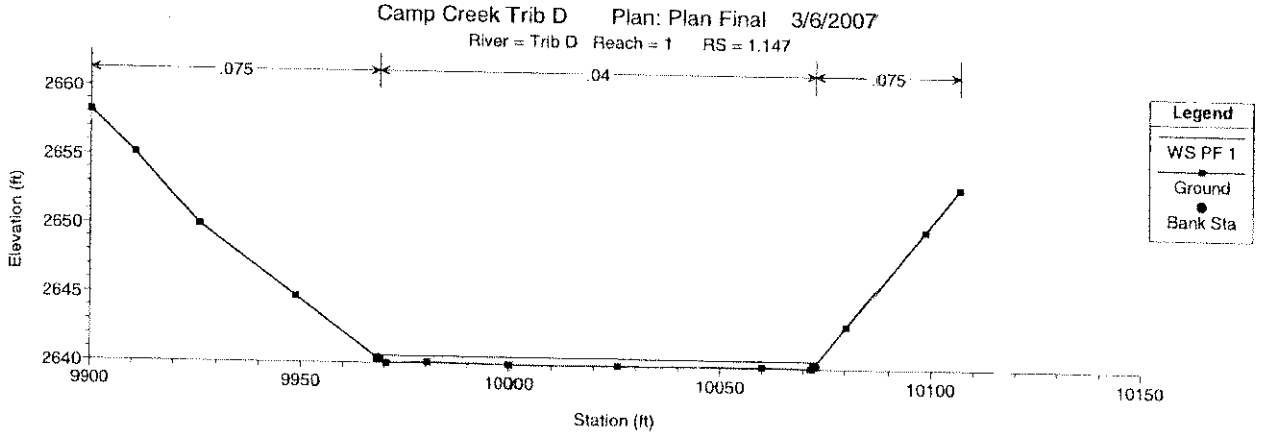

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C3 Reach = 1 RS = 0.197
.08
.035
.08
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

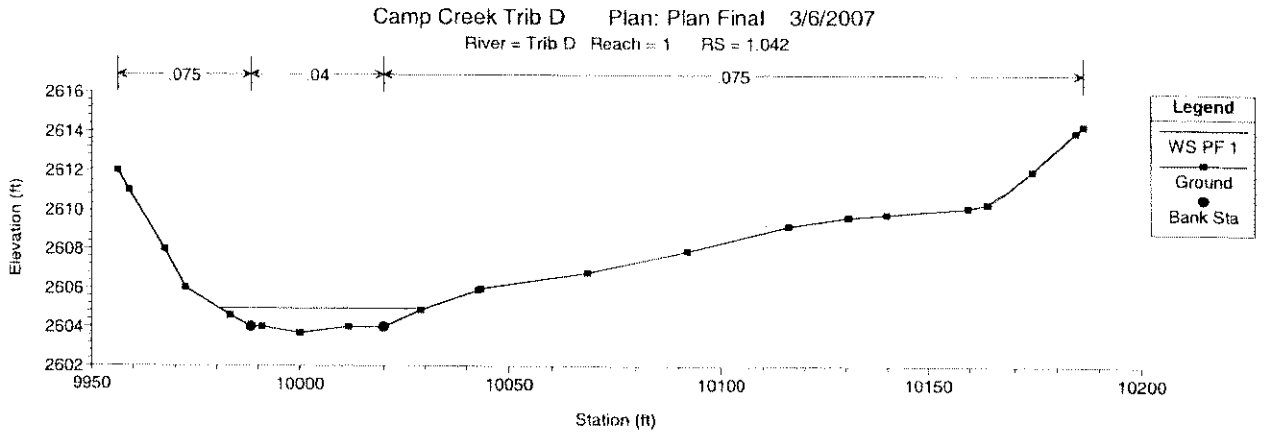

Camp Creek Trib C Plan: Plan Final 3/6/2007
River = Trib C3 Reach = 1 RS = 0.133
.08
.035
.08
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
2890
2888
2886
2884
2882
2880
2878
9500
9600
9700
9800
9900
10000
10100
Station (ft)

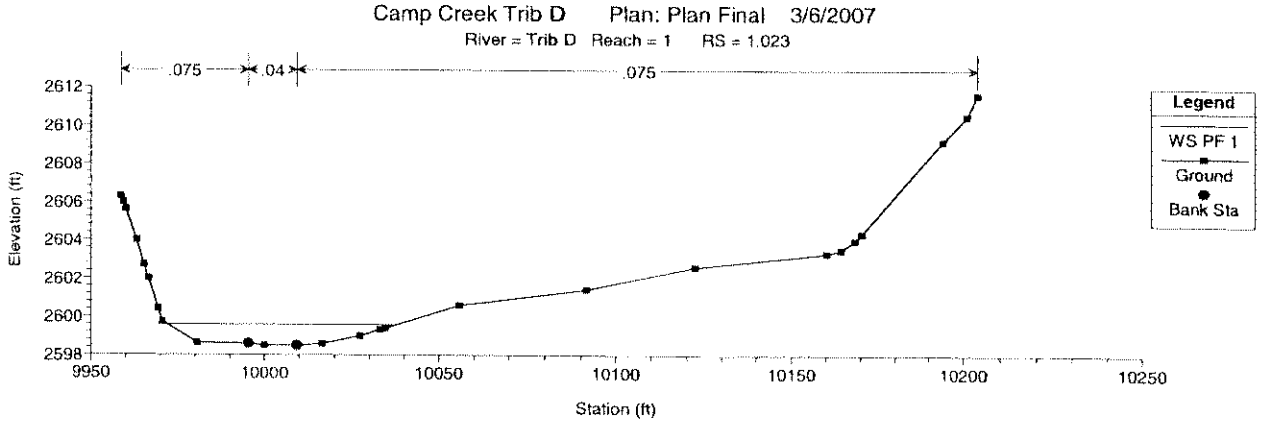

Camp Creek Trib D Plan: Plan Final 3/6/2007
River = Trib D Reach = 1 RS = 1.283
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

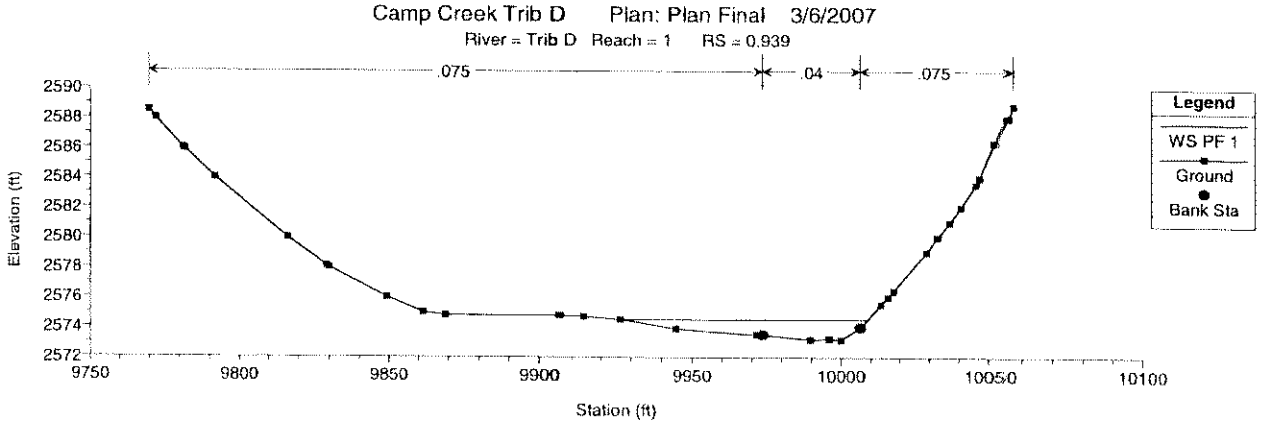

Camp Creek Trib D Plan: Plan Final 3/6/2007
River = Trib D Reach = 1 RS = 1.242
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

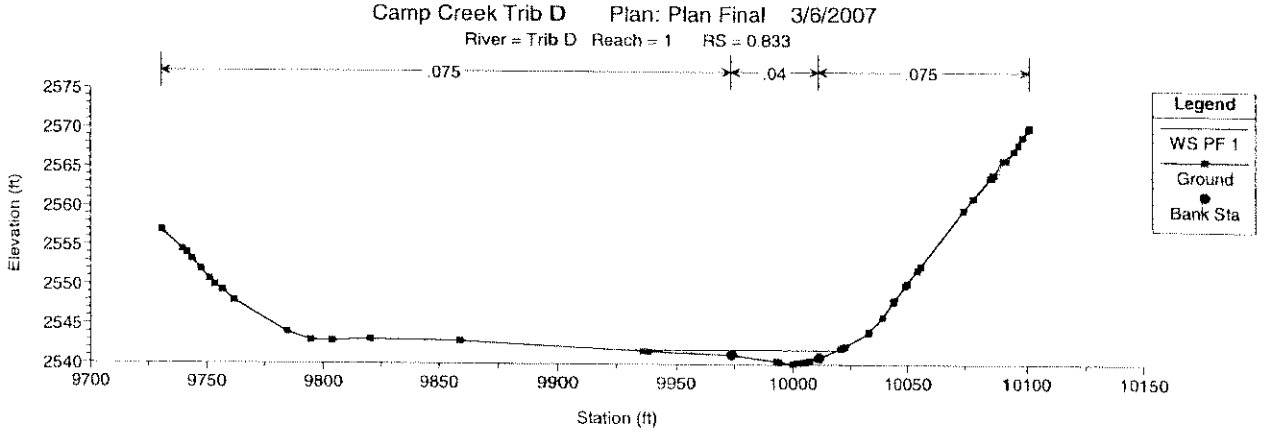

Camp Creek Trib D Plan: Plan Final 3/6/2007
River = Trib D Reach = 1 RS = 1.217
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

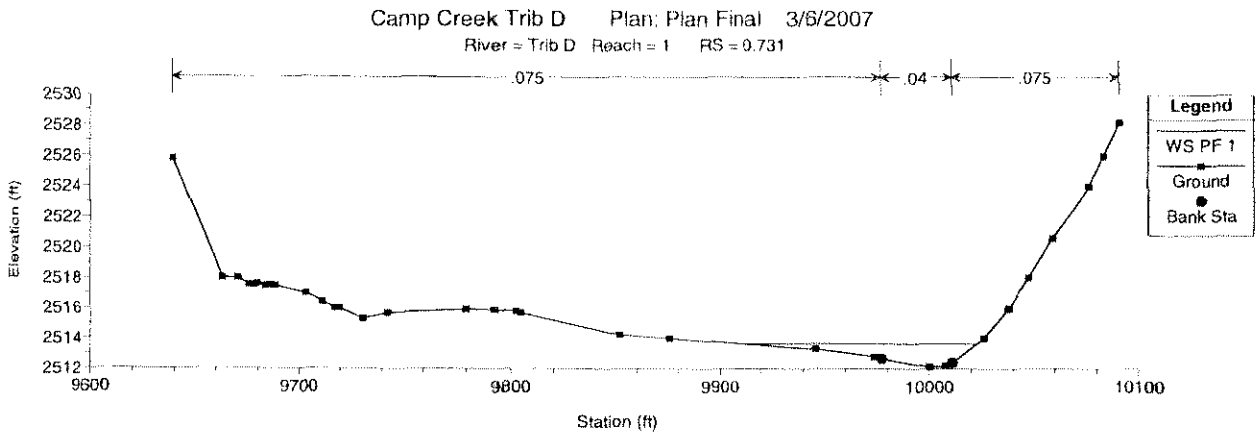

Camp Creek Trib D Plan: Plan Final 3/6/2007
River = Trib D Reach = 1 RS = 1.147
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

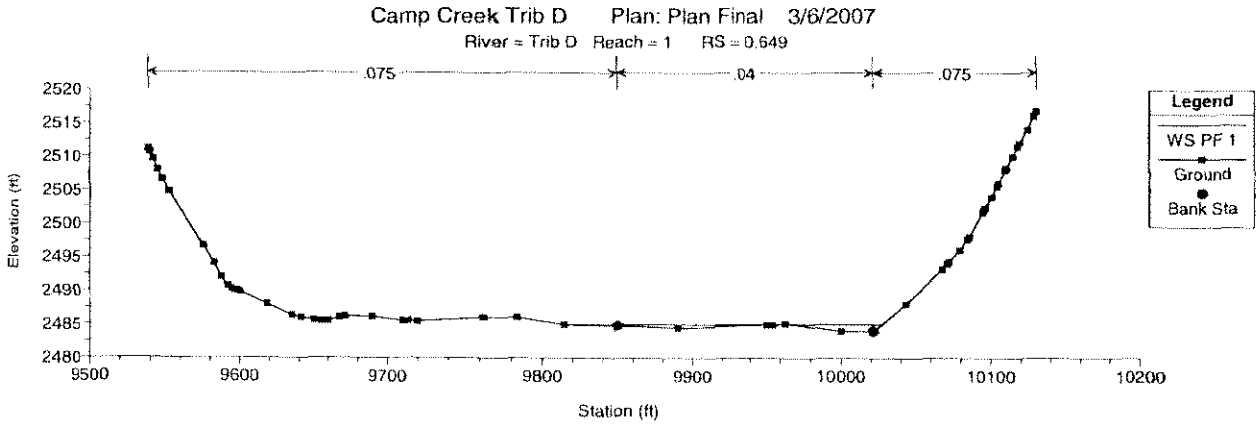

Camp Creek Trib D Plan: Plan Final 3/6/2007
River = Trib D Reach = 1 RS = 1.042
.075
.04
.075
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

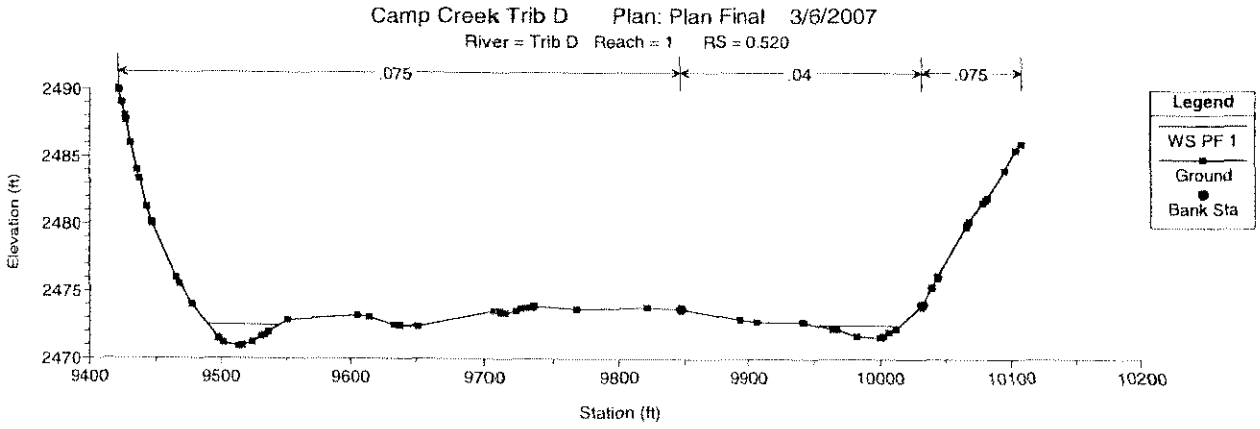

Camp Creek Trib D Plan: Plan Final 3/6/2007
River = Trib D Reach = 1 RS = 1.023
.075
.04
.075
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

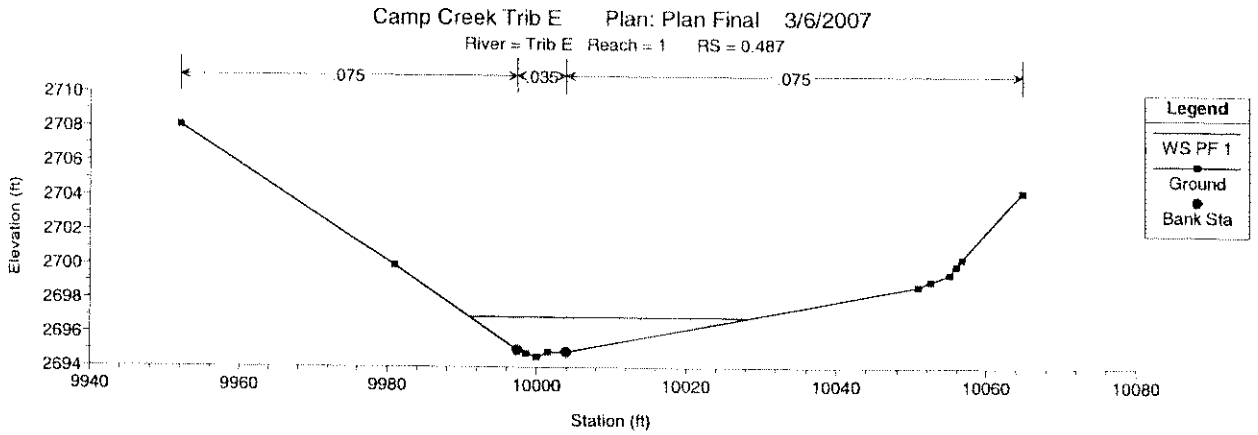

Camp Creek Trib D Plan: Plan Final 3/6/2007
River = Trib D Reach = 1 RS = 0.939
.075
.04
.075
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

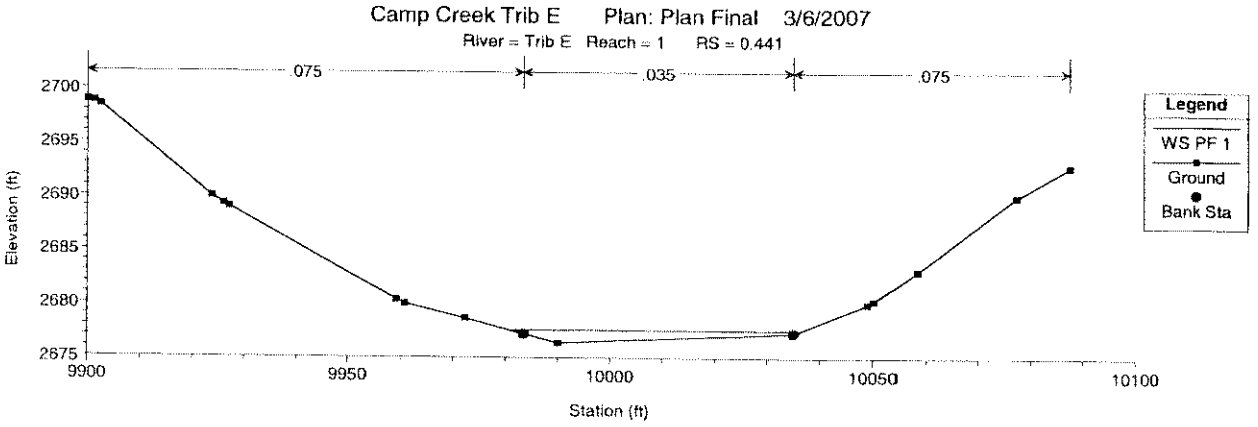

Camp Creek Trib D Plan: Plan Final 3/6/2007
River = Trib D Reach = 1 RS = 0.833
.075
.04
.075
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

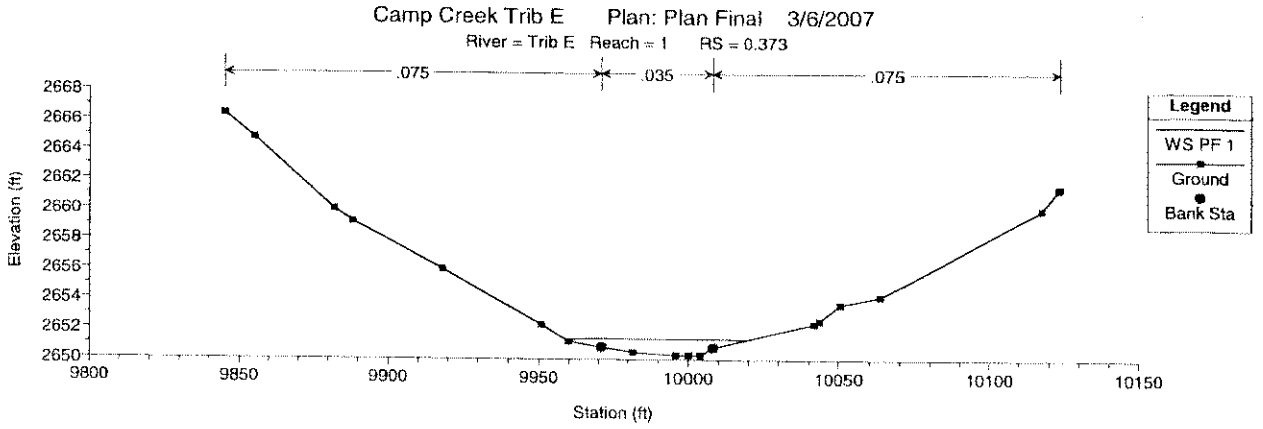

Camp Creek Trib D Plan: Plan Final 3/6/2007
River = Trib D Reach = 1 RS = 0.731
.075
.04
.075
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

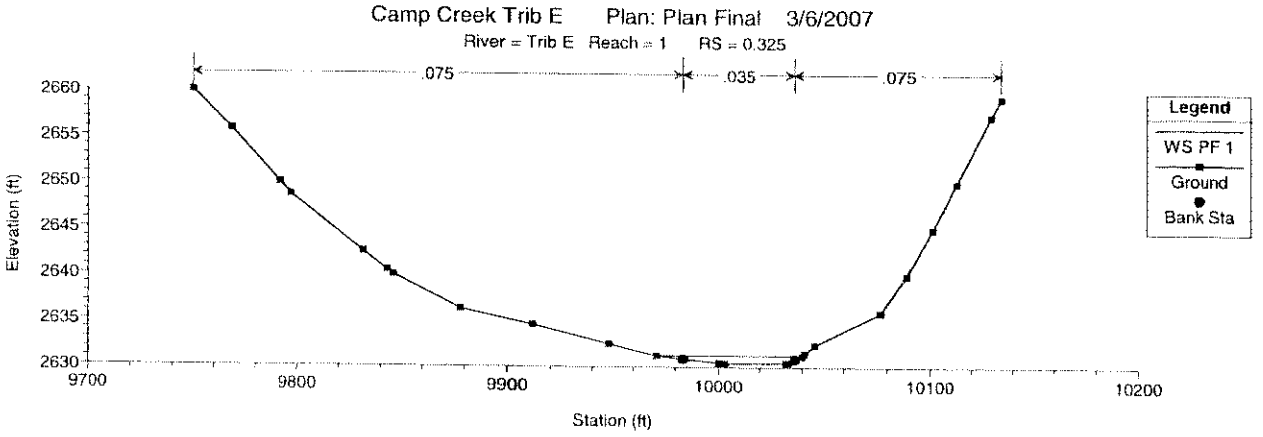

Camp Creek Trib D Plan: Plan Final 3/6/2007
River = Trib D Reach = 1 RS = 0.649
.075
.04
.075
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

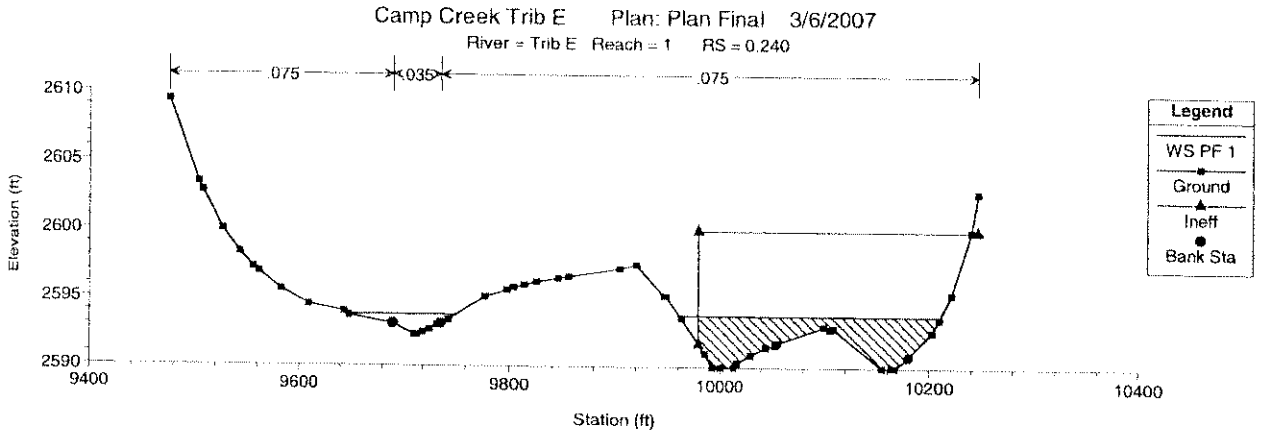

Camp Creek Trib D Plan: Plan Final 3/6/2007
River = Trib D Reach = 1 RS = 0.520
.075
.04
.075
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

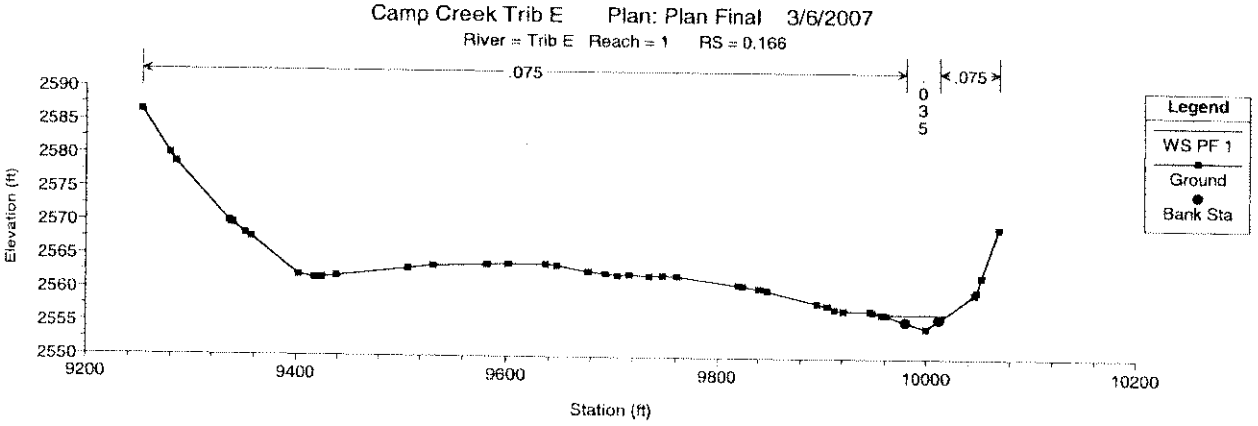

Camp Creek Trib E Plan: Plan Final 3/6/2007
River = Trib E Reach = 1 RS = 0.487
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

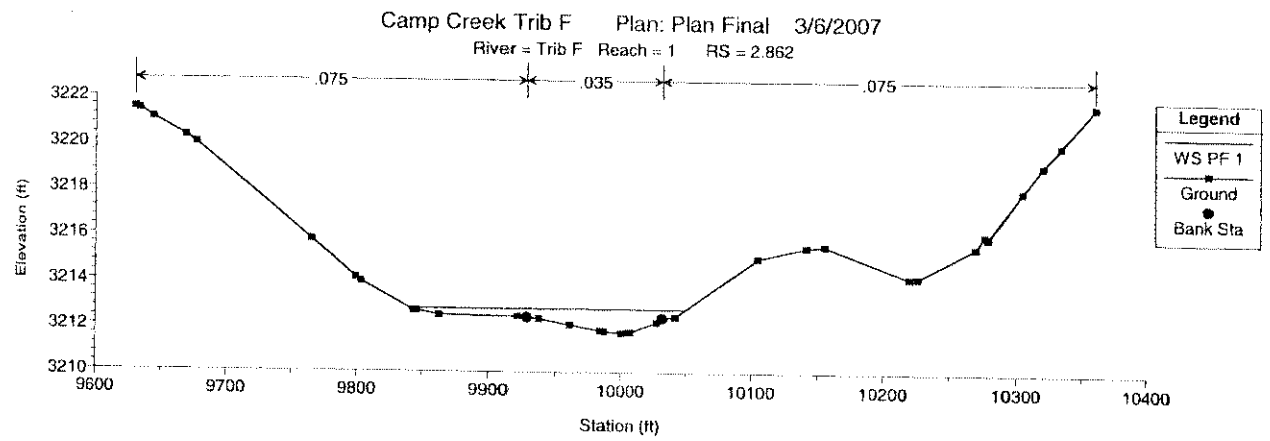

Camp Creek Trib E Plan: Plan Final 3/6/2007
River = Trib E Reach = 1 RS = 0.441
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

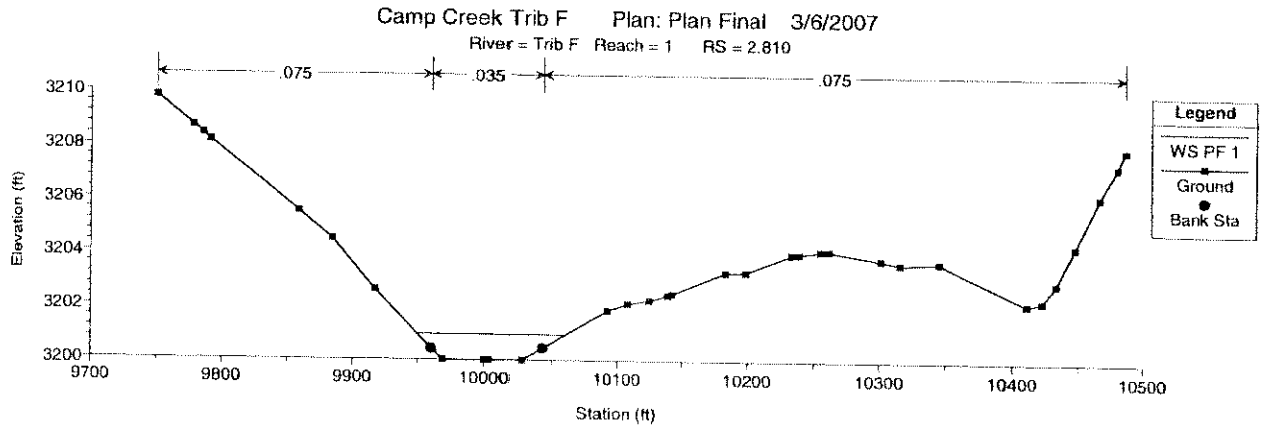

Camp Creek Trib E Plan: Plan Final 3/6/2007
River = Trib E Reach = 1 RS = 0.373
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

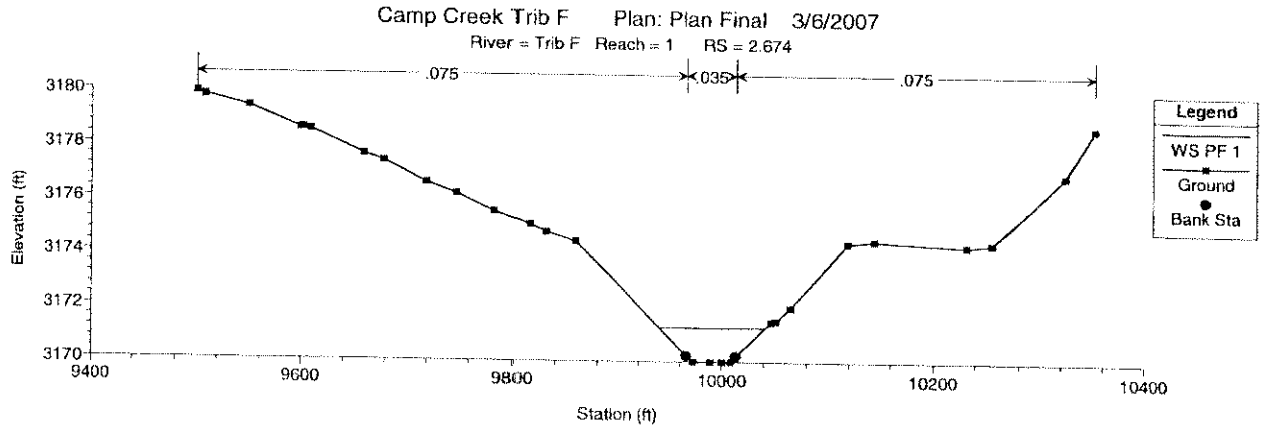

Camp Creek Trib E Plan: Plan Final 3/6/2007
River = Trib E Reach = 1 RS = 0.325
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

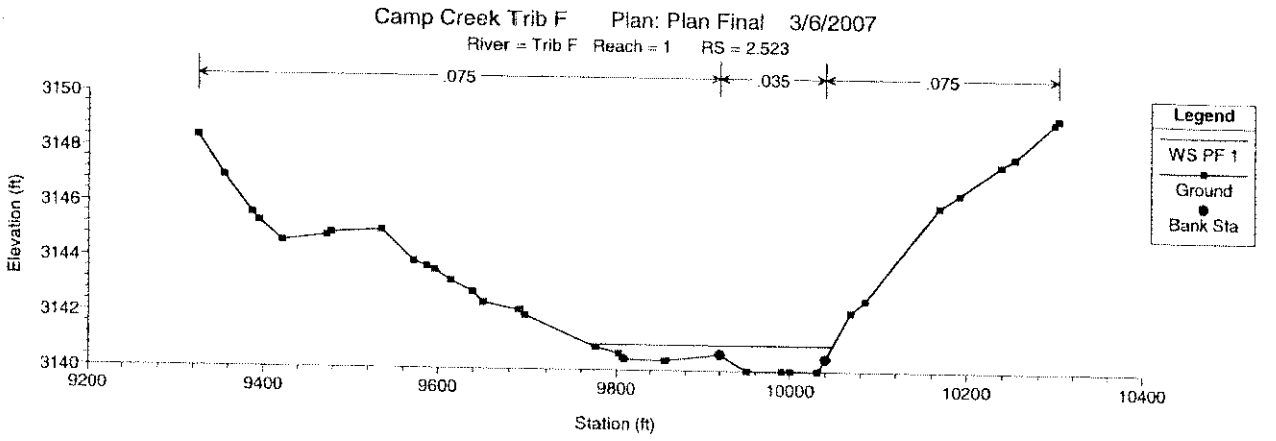

Camp Creek Trib E Plan: Plan Final 3/6/2007
River = Trib E Reach = 1 RS = 0.240
.075
.035
.075
Elevation (ft)
2610
2605
2600
2595
2590
9400
9600
9800
10000
10200
10400
Station (ft)
Legend
WS PF 1
Ground
Ineff
Bank Sta

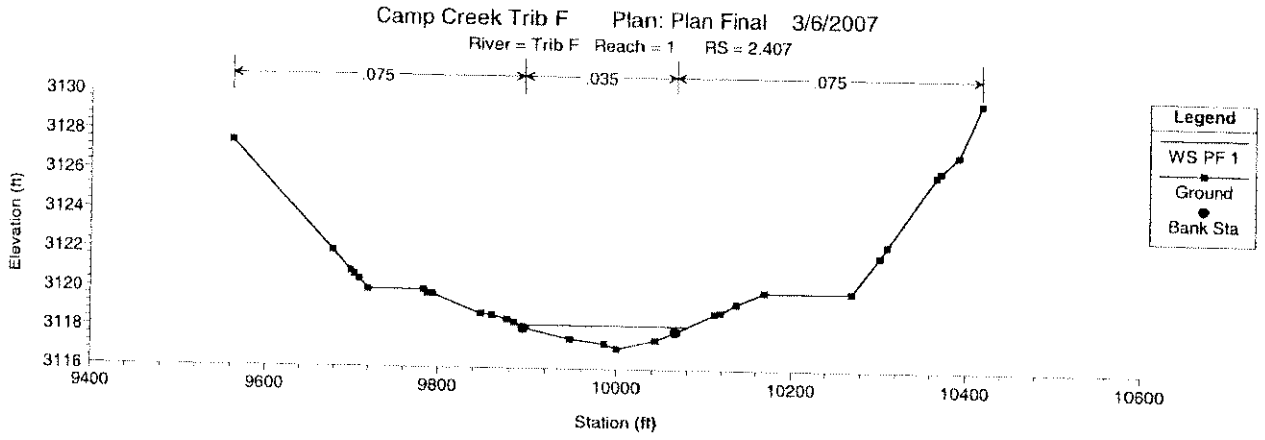

Camp Creek Trib E Plan: Plan Final 3/6/2007
River = Trib E Reach = 1 RS = 0.166
.075
.035
.075
Elevation (ft)
2590
2585
2580
2575
2570
2565
2560
2555
2550
9200
9400
9600
9800
10000
10200
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

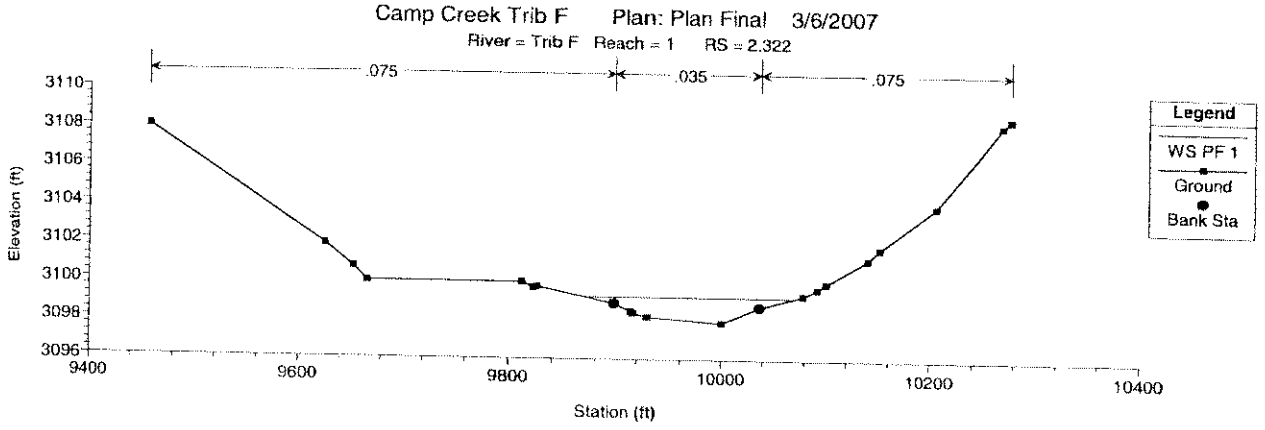

Camp Creek Trib F Plan: Plan Final 3/6/2007
River = Trib F Reach = 1 RS = 2.862
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

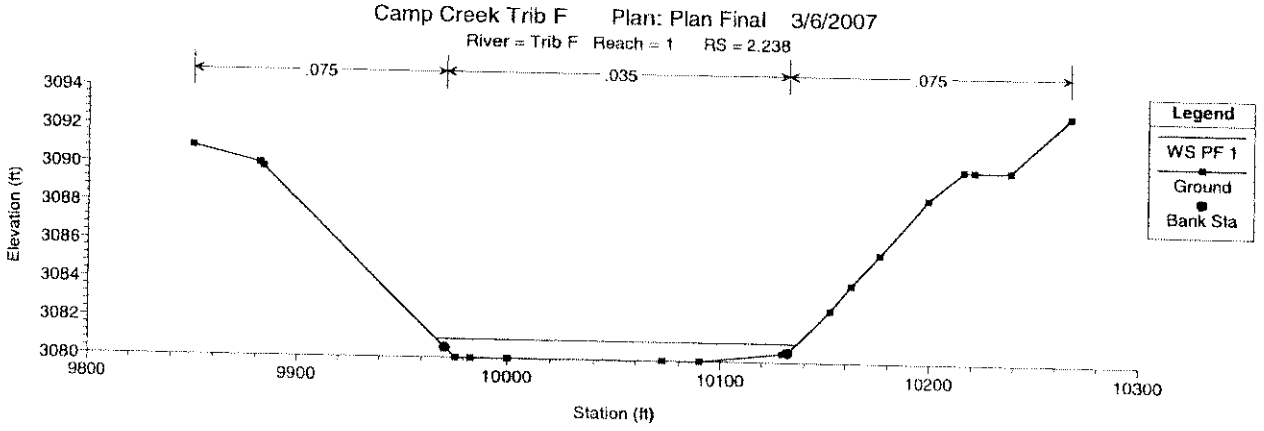

Camp Creek Trib F Plan: Plan Final 3/6/2007
River = Trib F Reach = 1 RS = 2.810
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

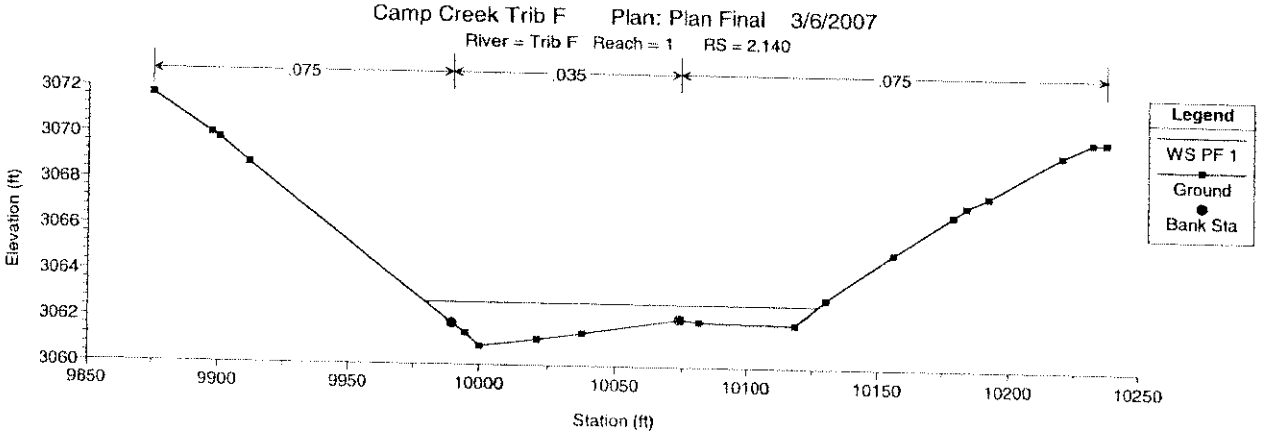

Camp Creek Trib F Plan: Plan Final 3/6/2007
River = Trib F Reach = 1 RS = 2.674
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

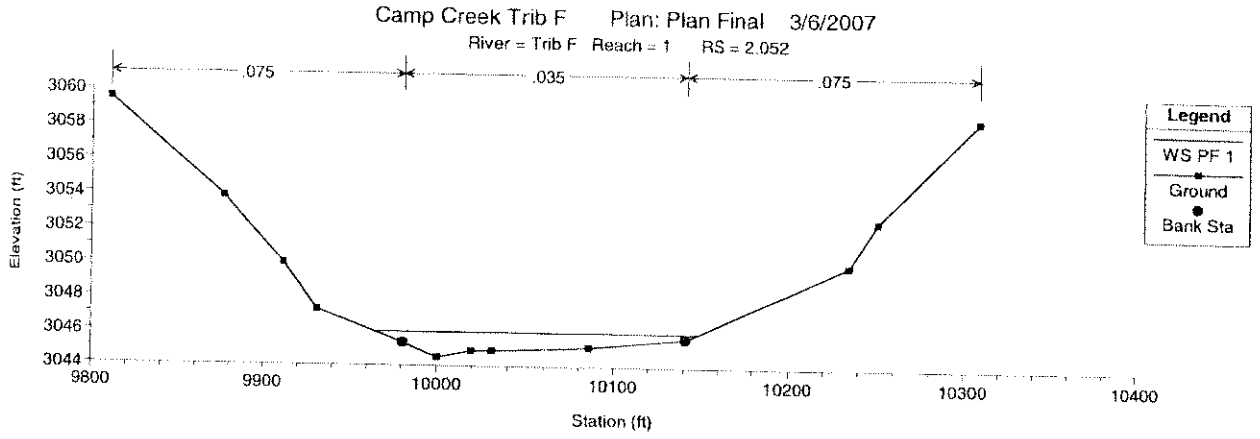

Camp Creek Trib F Plan: Plan Final 3/6/2007
River = Trib F Reach = 1 RS = 2.523
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

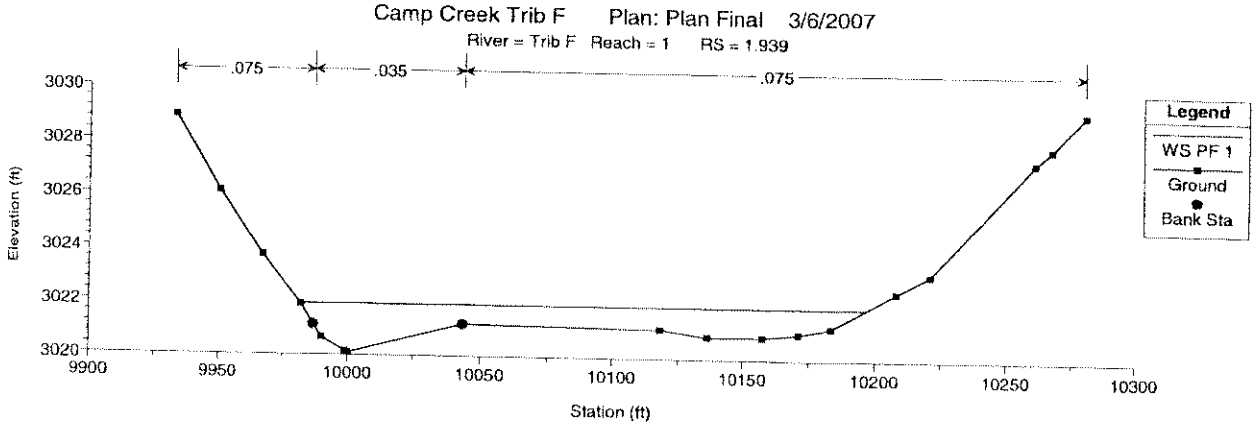

Camp Creek Trib F Plan: Plan Final 3/6/2007
River = Trib F Reach = 1 RS = 2.407
.075
.035
.075
Elevation (ft)
3130
3128
3126
3124
3122
3120
3118
3116
9400
9600
9800
10000
10200
10400
10600
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

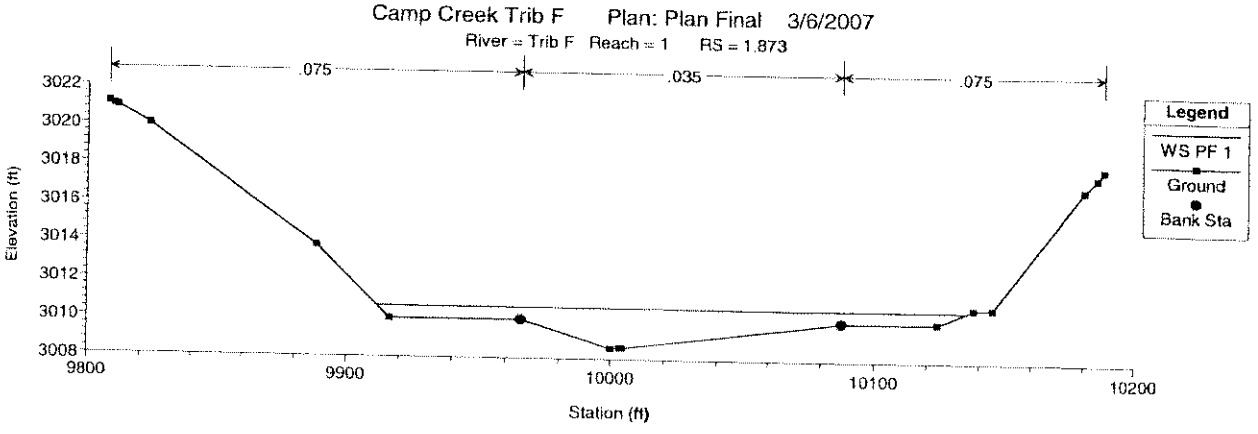

Camp Creek Trib F Plan: Plan Final 3/6/2007
River = Trib F Reach = 1 RS = 2.322
.075
.035
.075
Elevation (ft)
3110
3108
3106
3104
3102
3100
3098
3096
9400
9600
9800
10000
10200
10400
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

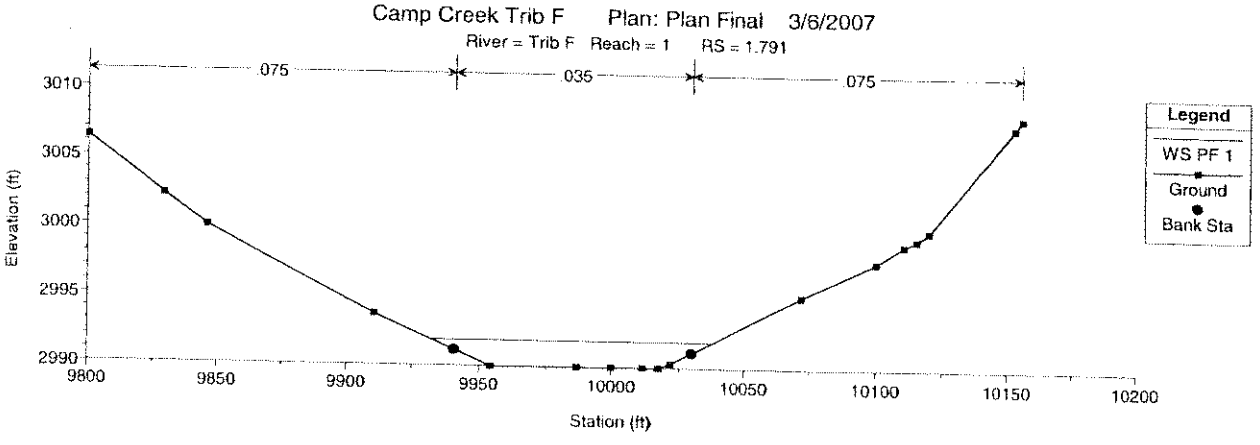

Camp Creek Trib F Plan: Plan Final 3/6/2007
River = Trib F Reach = 1 RS = 2.238
.075
.035
.075
Elevation (ft)
3094
3092
3090
3088
3086
3084
3082
3080
9800
9900
10000
10100
10200
10300
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

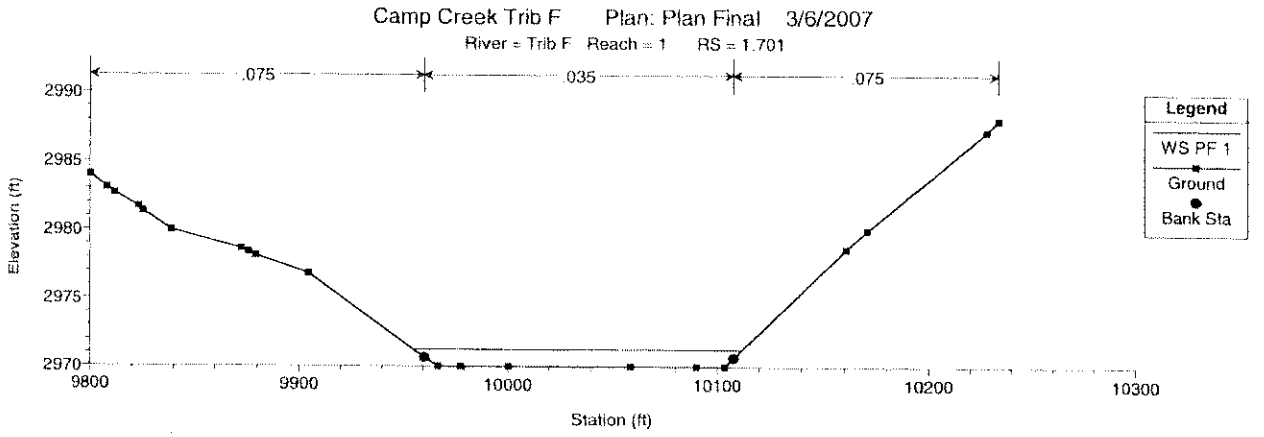

Camp Creek Trib F Plan: Plan Final 3/6/2007
River = Trib F Reach = 1 RS = 2.140
.075
.035
.075
Elevation (ft)
3072
3070
3068
3066
3064
3062
3060
9850
9900
9950
10000
10050
10100
10150
10200
10250
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

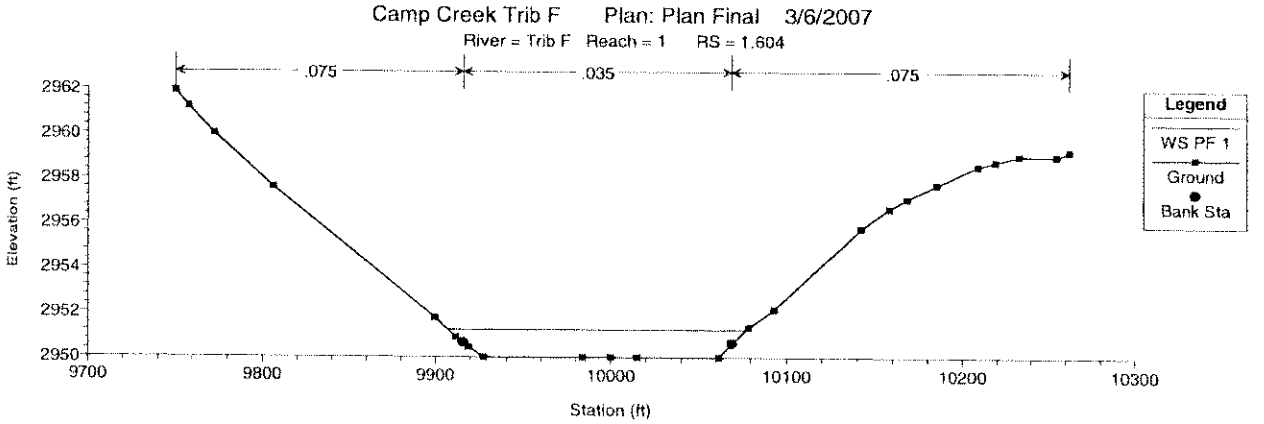

Camp Creek Trib F Plan: Plan Final 3/6/2007
River = Trib F Reach = 1 RS = 2.052
.075
.035
.075
Elevation (ft)
3060
3058
3056
3054
3052
3050
3048
3046
3044
9800
9900
10000
10100
10200
10300
10400
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

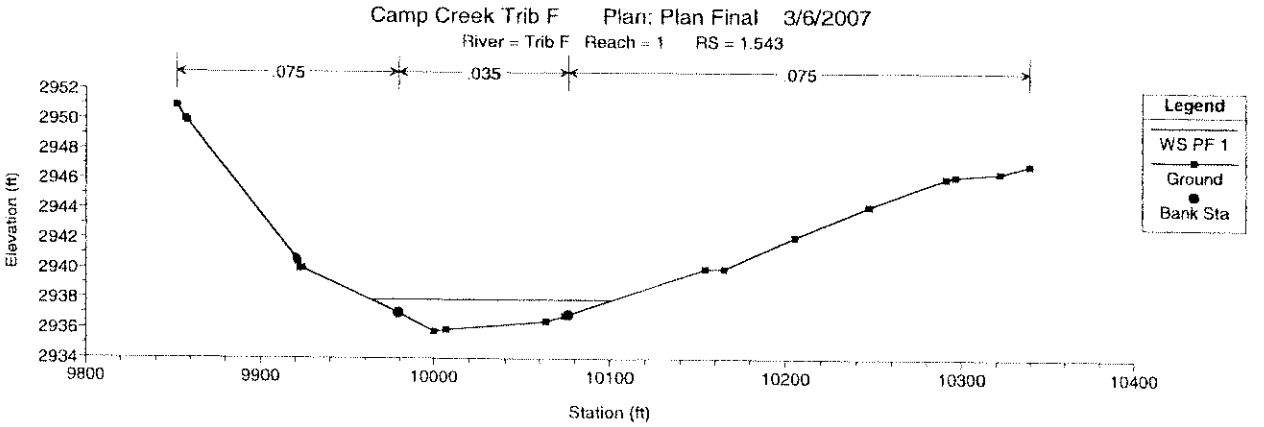

Camp Creek Trib F Plan: Plan Final 3/6/2007
River = Trib F Reach = 1 RS = 1.939
.075
.035
.075
Elevation (ft)
3030
3028
3026
3024
3022
3020
9900
9950
10000
10050
10100
10150
10200
10250
10300
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

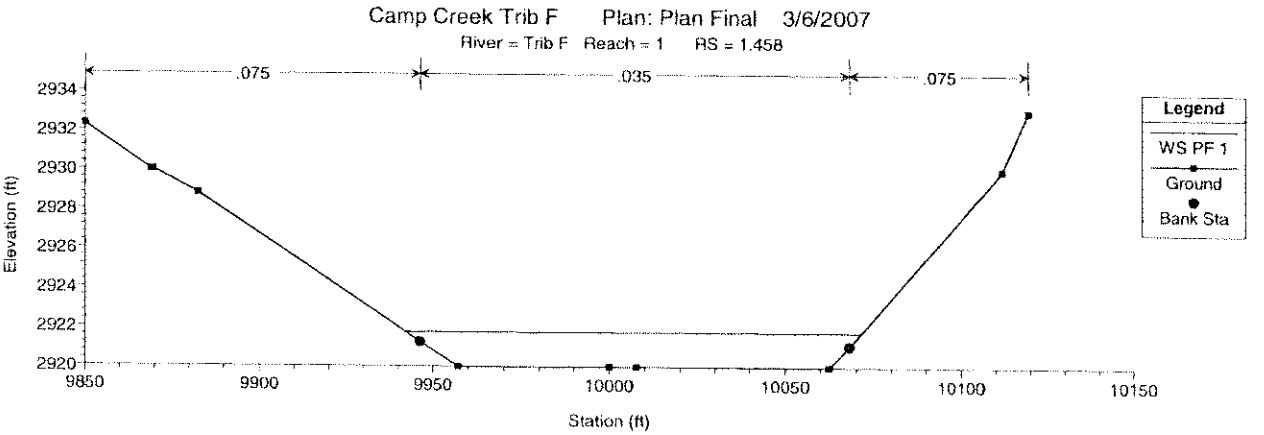

Camp Creek Trib F Plan: Plan Final 3/6/2007
River = Trib F Reach = 1 RS = 1.873
.075
.035
.075
Elevation (ft)
3022
3020
3018
3016
3014
3012
3010
3008
9800
9900
10000
10100
10200
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

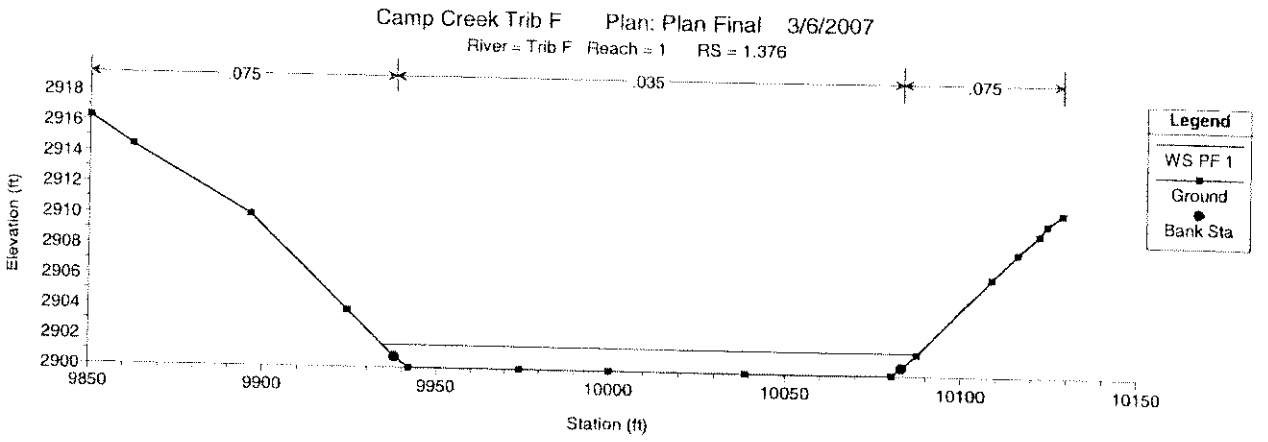

Camp Creek Trib F Plan: Plan Final 3/6/2007
River = Trib F Reach = 1 RS = 1.791
.075
.035
.075
Elevation (ft)
3010
3005
3000
2995
2990
9800
9850
9900
9950
10000
10050
10100
10150
10200
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

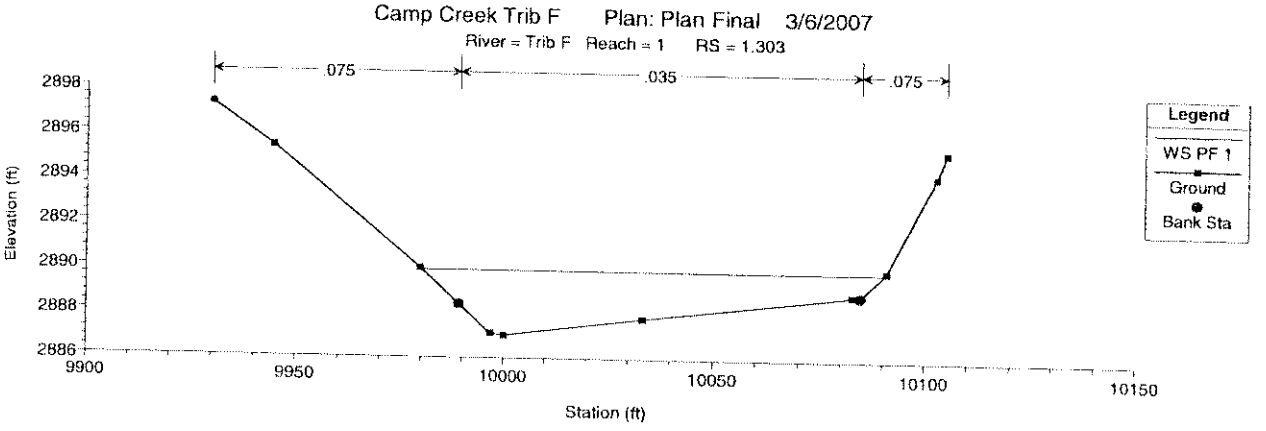

Camp Creek Trib F Plan: Plan Final 3/6/2007
River = Trib F Reach = 1 RS = 1.701
.075
.035
.075
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

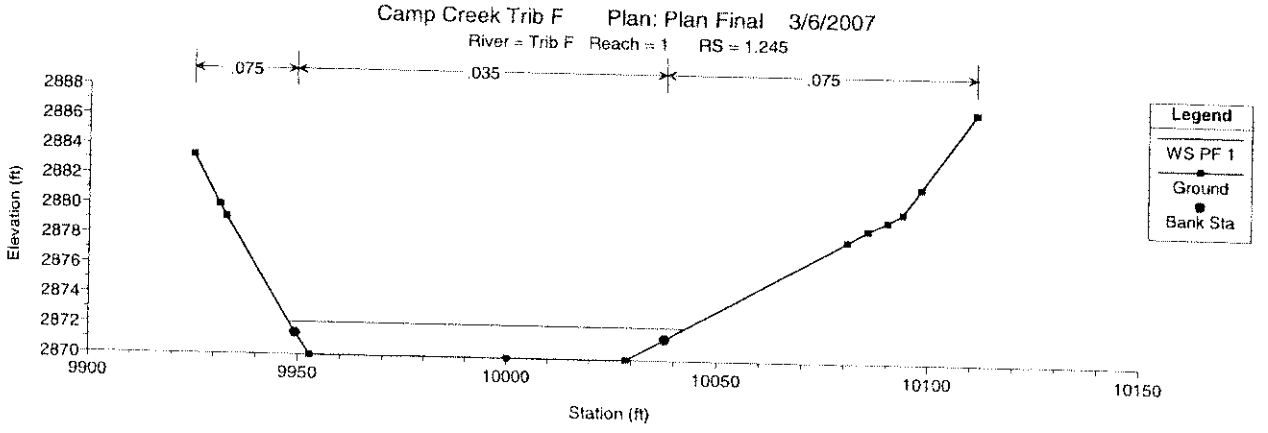

Camp Creek Trib F Plan: Plan Final 3/6/2007
River = Trib F Reach = 1 RS = 1.604
.075
.035
.075
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

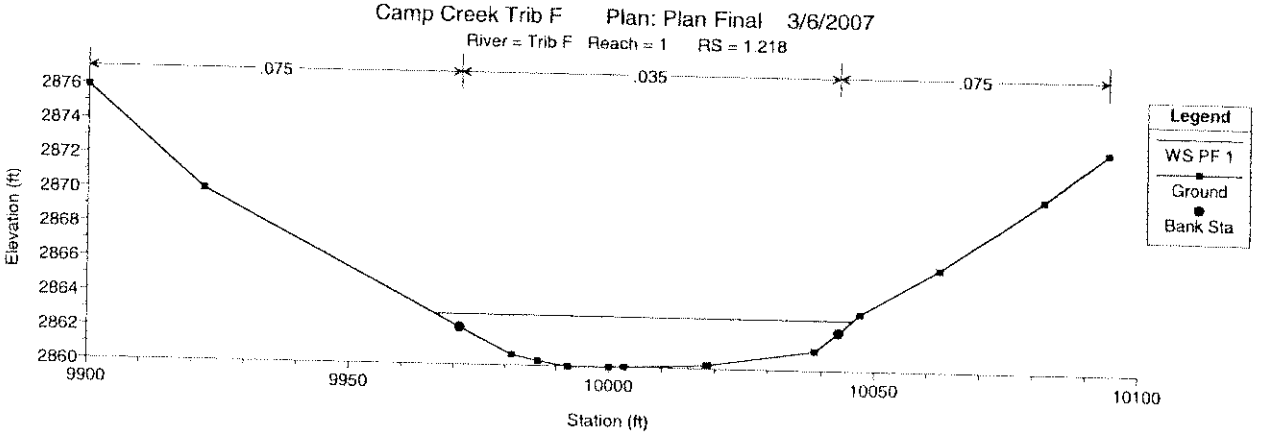

Camp Creek Trib F Plan: Plan Final 3/6/2007
River = Trib F Reach = 1 RS = 1.543
.075
.035
.075
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

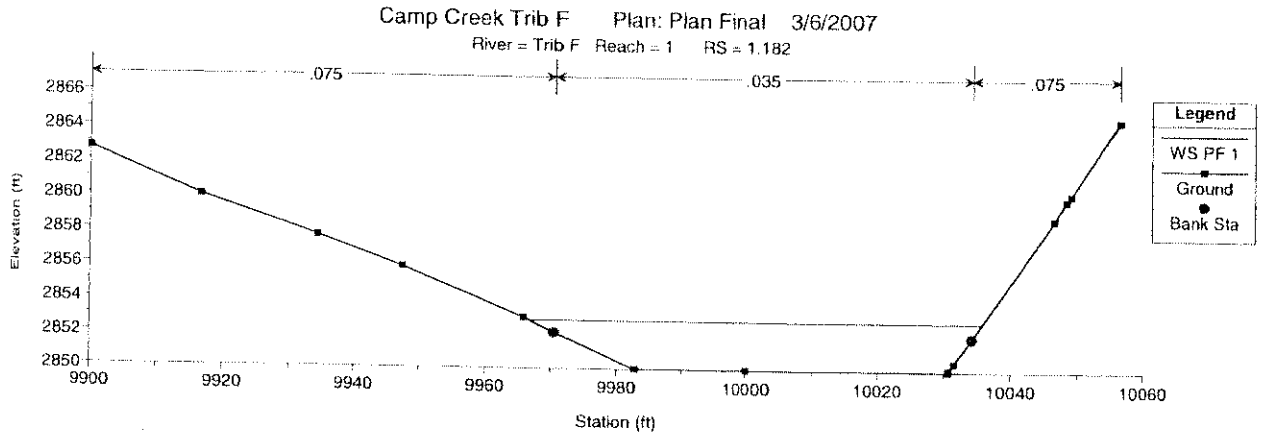

Camp Creek Trib F Plan: Plan Final 3/6/2007
River = Trib F Reach = 1 RS = 1.458
.075
.035
.075
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

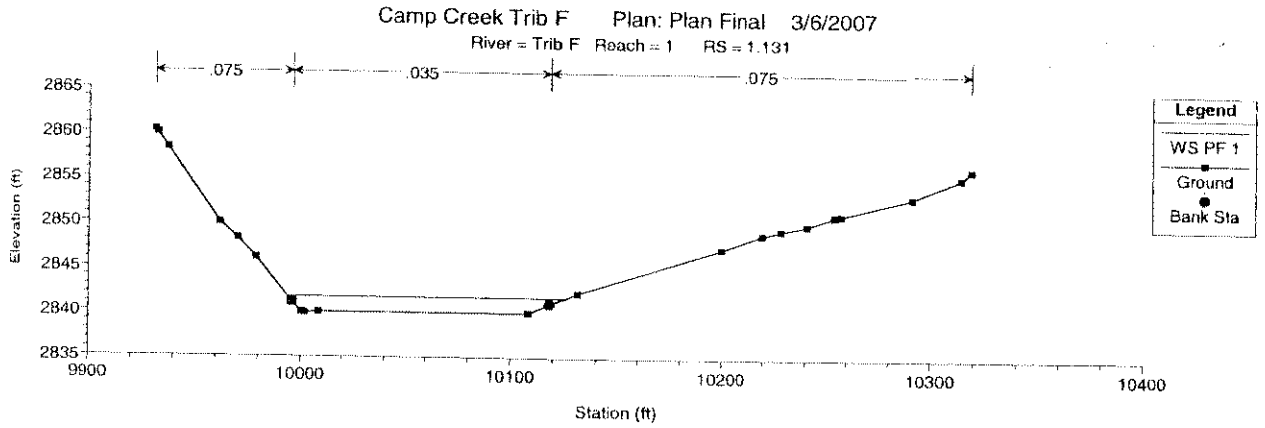

Camp Creek Trib F Plan: Plan Final 3/6/2007
River = Trib F Reach = 1 RS = 1.376
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

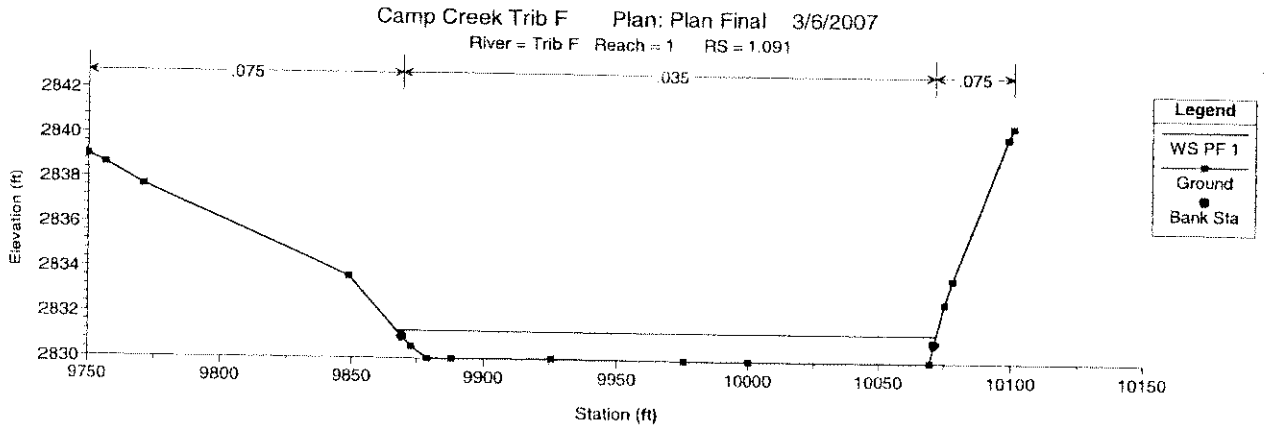

Camp Creek Trib F Plan: Plan Final 3/6/2007
River = Trib F Reach = 1 RS = 1.303
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

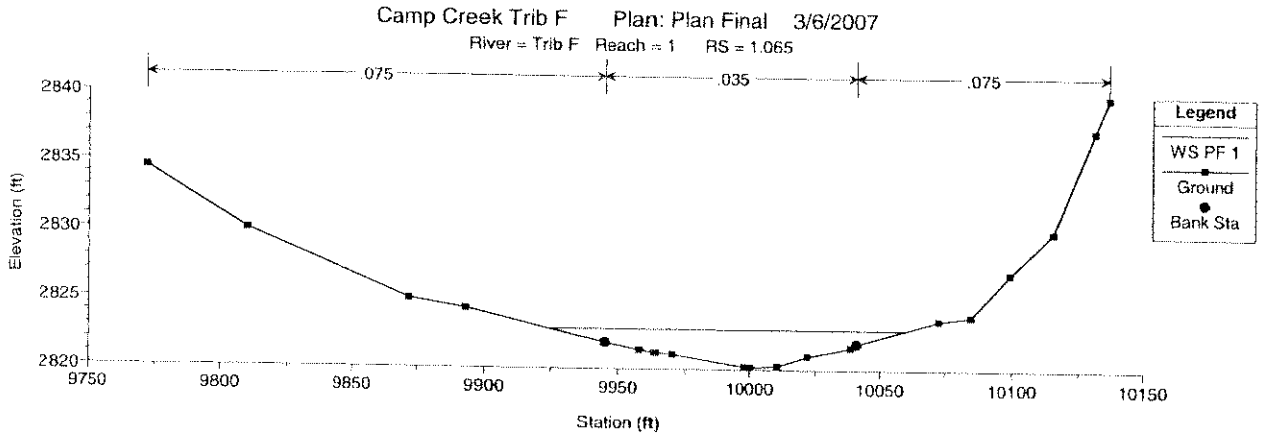

Camp Creek Trib F Plan: Plan Final 3/6/2007
River = Trib F Reach = 1 RS = 1.245
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

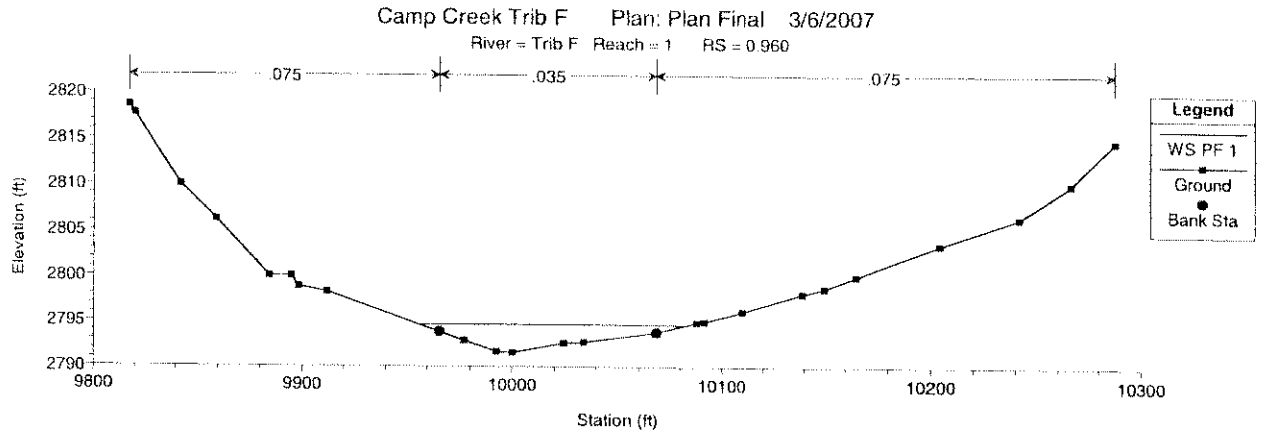

Camp Creek Trib F Plan: Plan Final 3/6/2007
River = Trib F Reach = 1 RS = 1.218
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

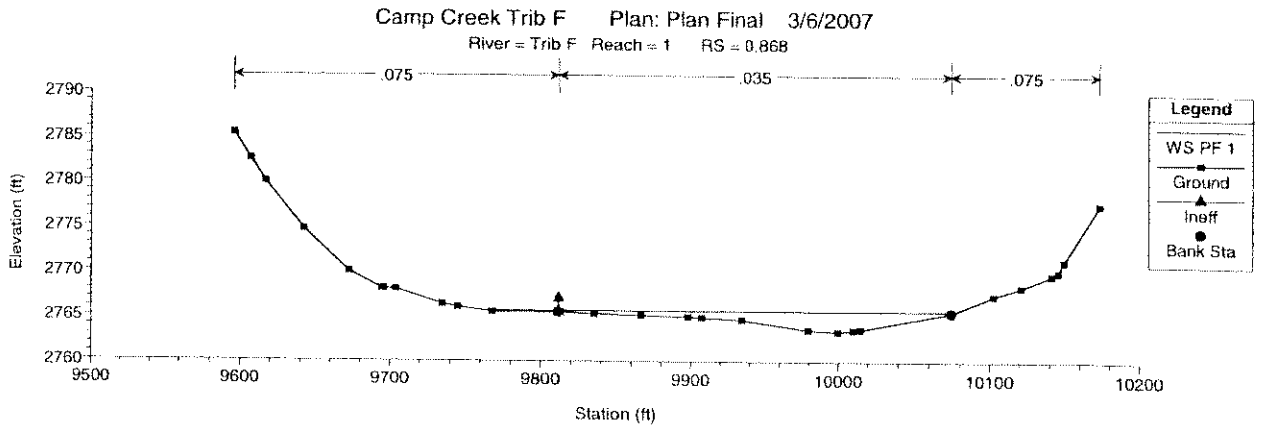

Camp Creek Trib F Plan: Plan Final 3/6/2007
River = Trib F Reach = 1 RS = 1.182
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

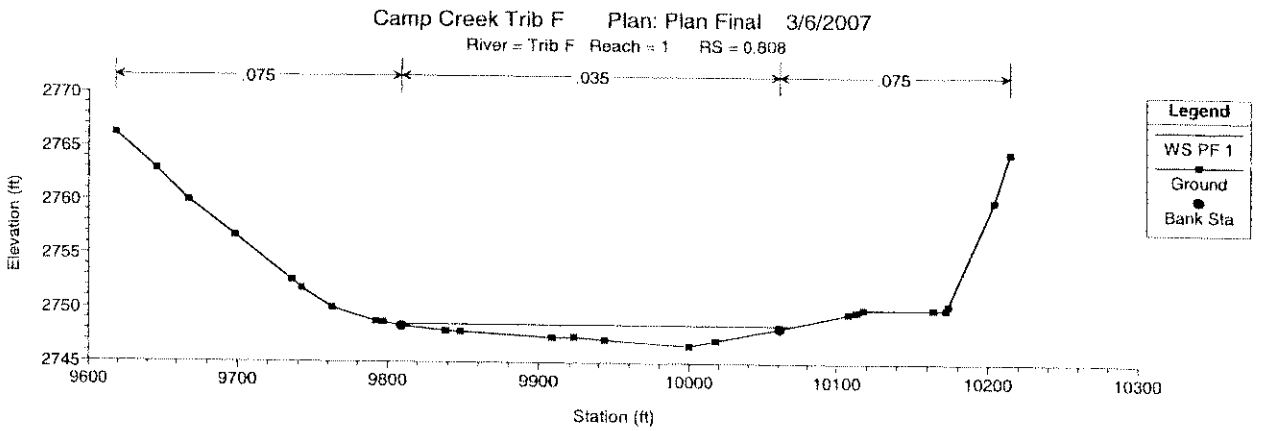

Camp Creek Trib F Plan: Plan Final 3/6/2007
River = Trib F Reach = 1 RS = 1.131
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

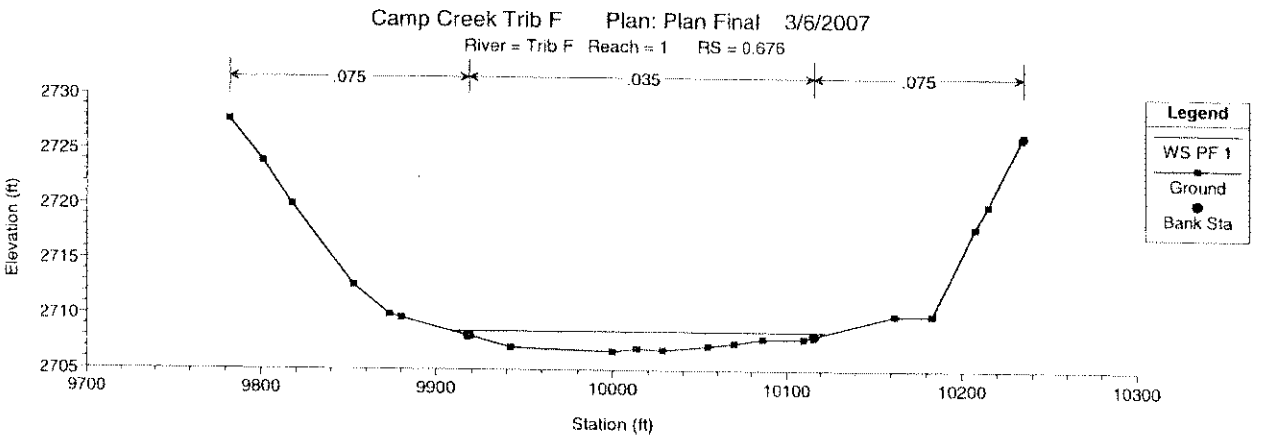

Camp Creek Trib F Plan: Plan Final 3/6/2007
River = Trib F Reach = 1 RS = 1.091
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

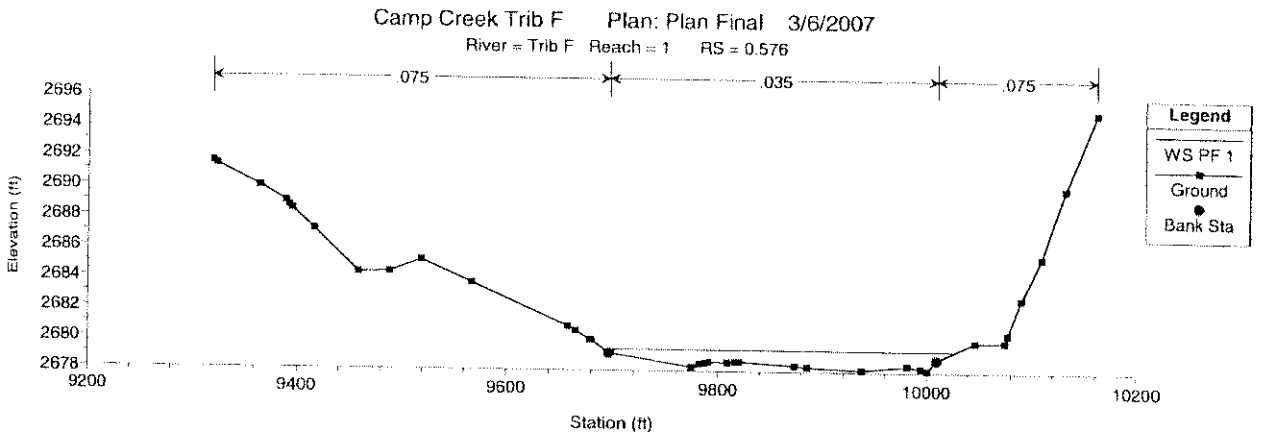

Camp Creek Trib F Plan: Plan Final 3/6/2007
River = Trib F Reach = 1 RS = 1.065
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

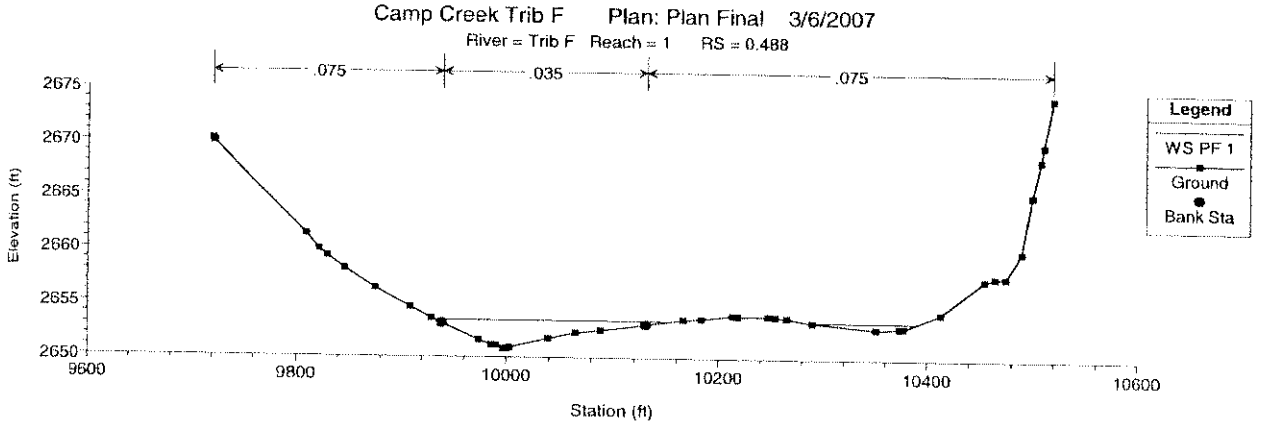

Camp Creek Trib F Plan: Plan Final 3/6/2007
River = Trib F Reach = 1 RS = 0.960
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

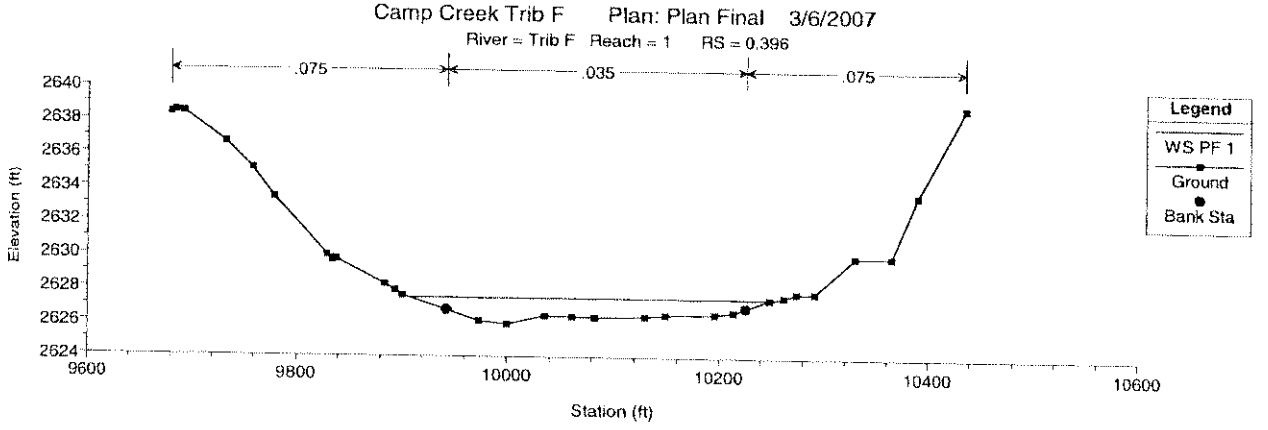

Camp Creek Trib F Plan: Plan Final 3/6/2007
River = Trib F Reach = 1 RS = 0.868
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Ineff
Bank Sta

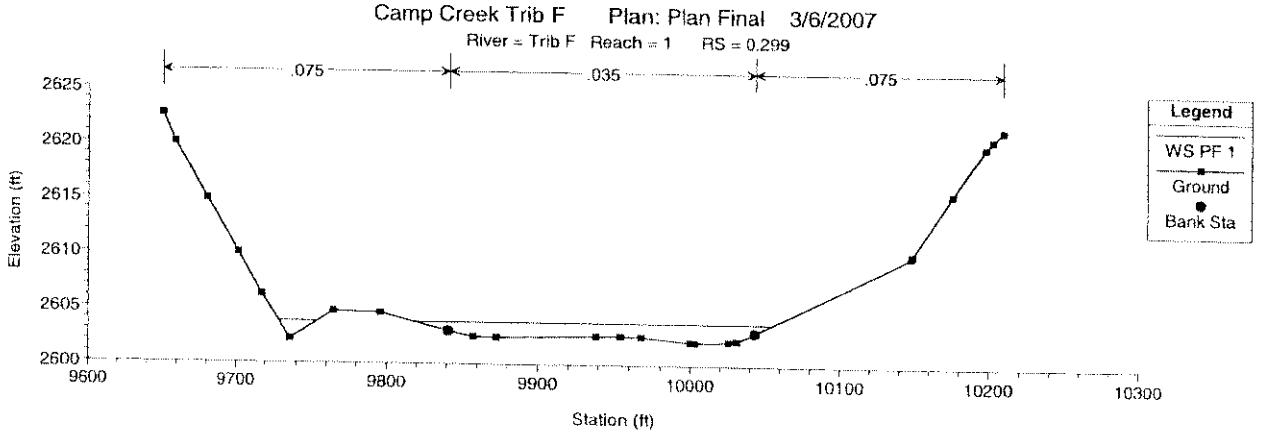

Camp Creek Trib F Plan: Plan Final 3/6/2007
River = Trib F Reach = 1 RS = 0.808
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

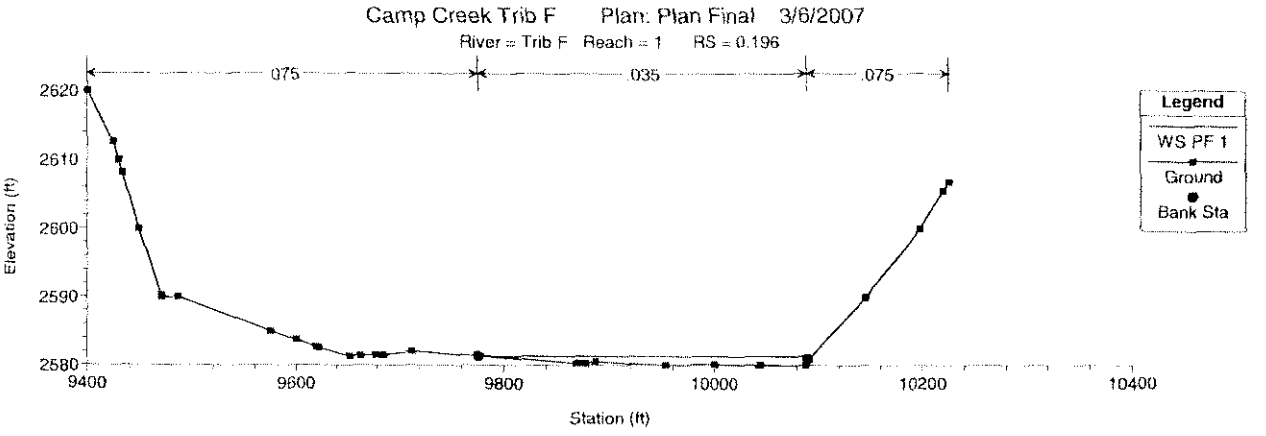

Camp Creek Trib F Plan: Plan Final 3/6/2007
River = Trib F Reach = 1 RS = 0.676
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib F Plan: Plan Final 3/6/2007
River = Trib F Reach = 1 RS = 0.576
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib F Plan: Plan Final 3/6/2007
River = Trib F Reach = 1 RS = 0.488
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

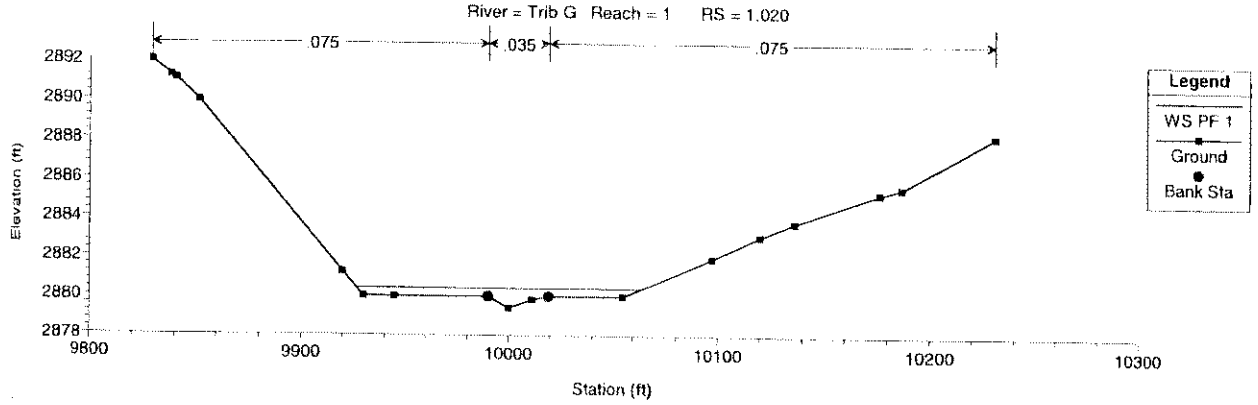

Camp Creek Trib F Plan: Plan Final 3/6/2007
River = Trib F Reach = 1 RS = 0.396
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib F Plan: Plan Final 3/6/2007
River = Trib F Reach = 1 RS = 0.299
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib F Plan: Plan Final 3/6/2007
River = Trib F Reach = 1 RS = 0.196
.075
.035
.075
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
2620
2610
2600
2590
2580
9400
9600
9800
10000
10200
10400
Station (ft)

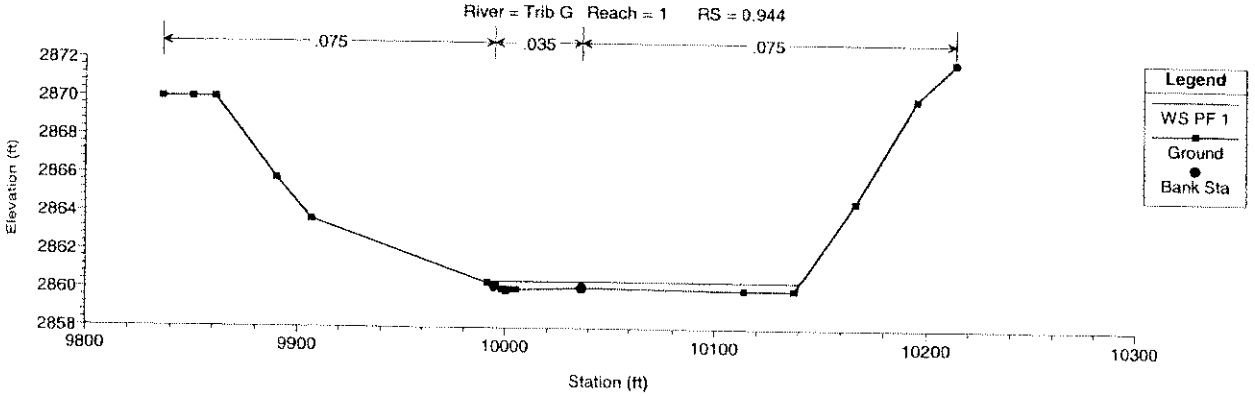
Camp Creek Trib G Plan: Plan Final 3/6/2007

River = Trib G Reach = 1 RS = 1.020



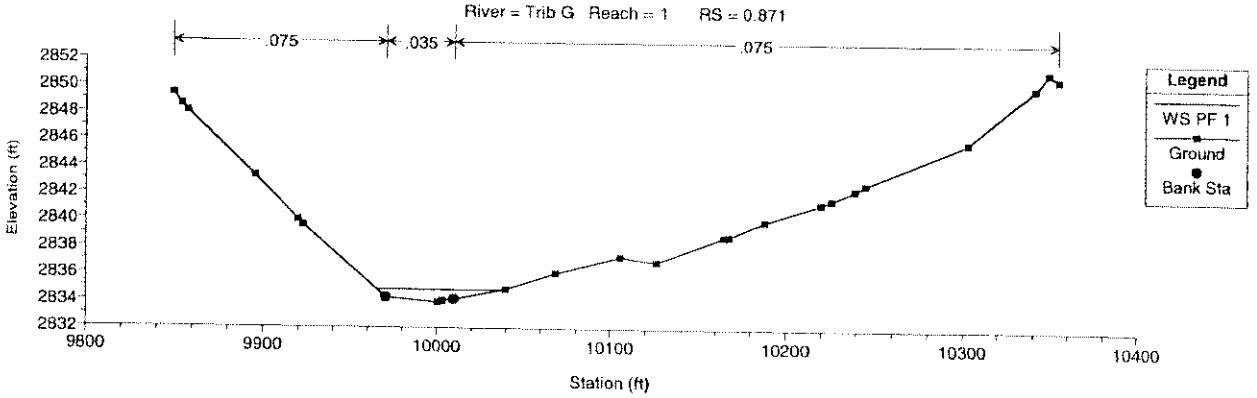
Camp Creek Trib G Plan: Plan Final 3/6/2007

River = Trib G Reach = 1 RS = 0.944



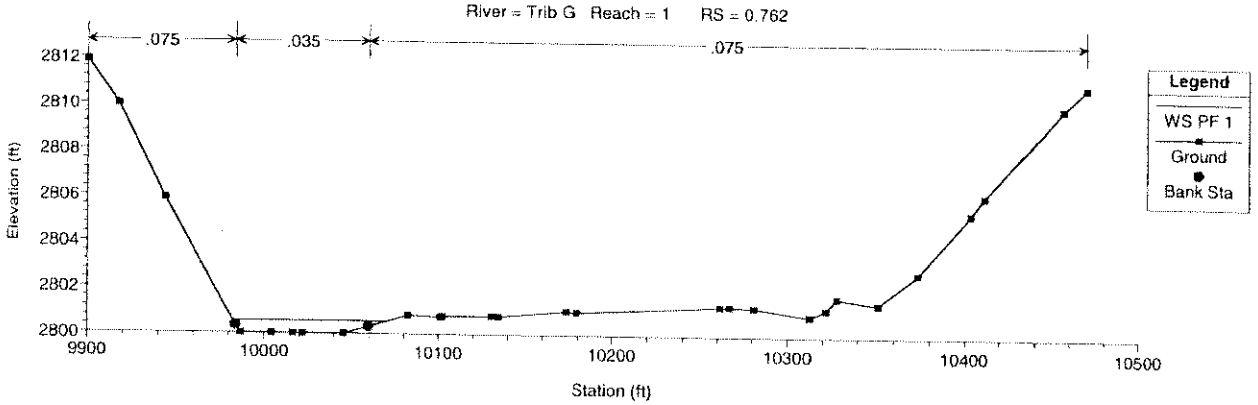
Camp Creek Trib G Plan: Plan Final 3/6/2007

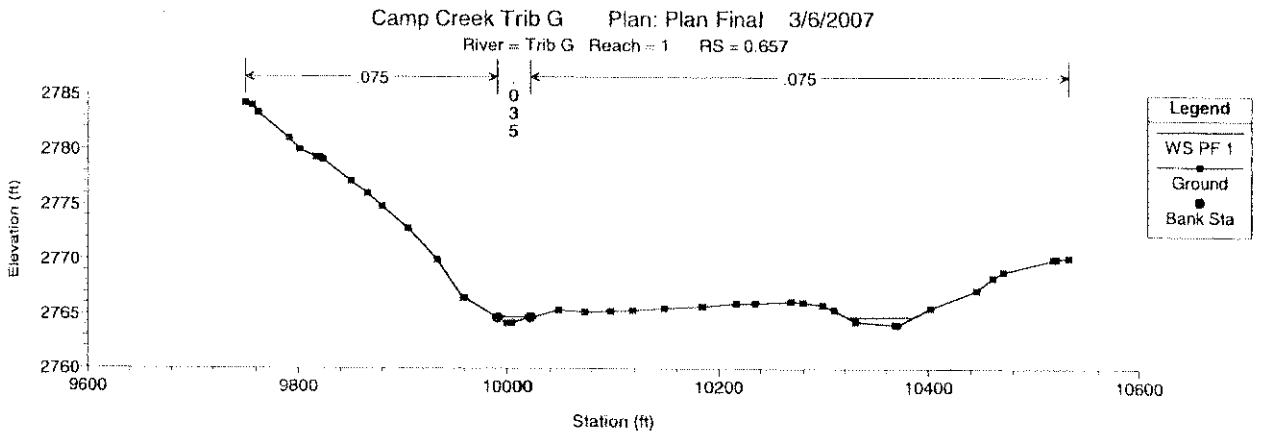
River = Trib G Reach = 1 RS = 0.871

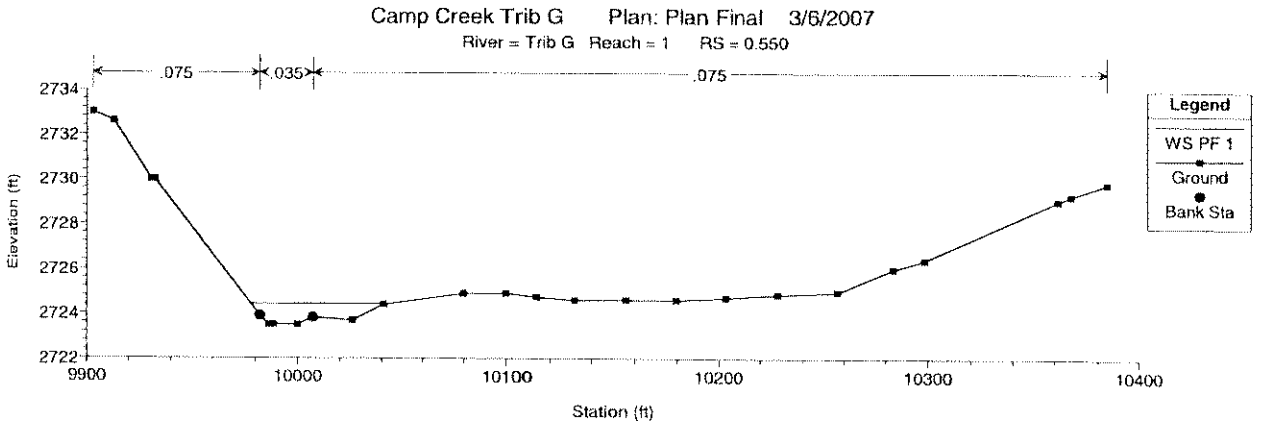


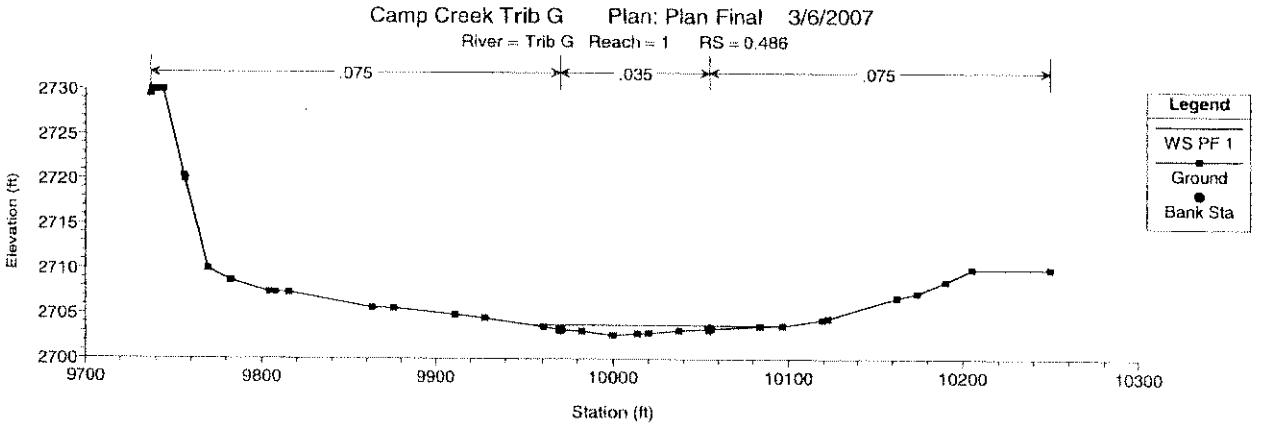
Camp Creek Trib G Plan: Plan Final 3/6/2007

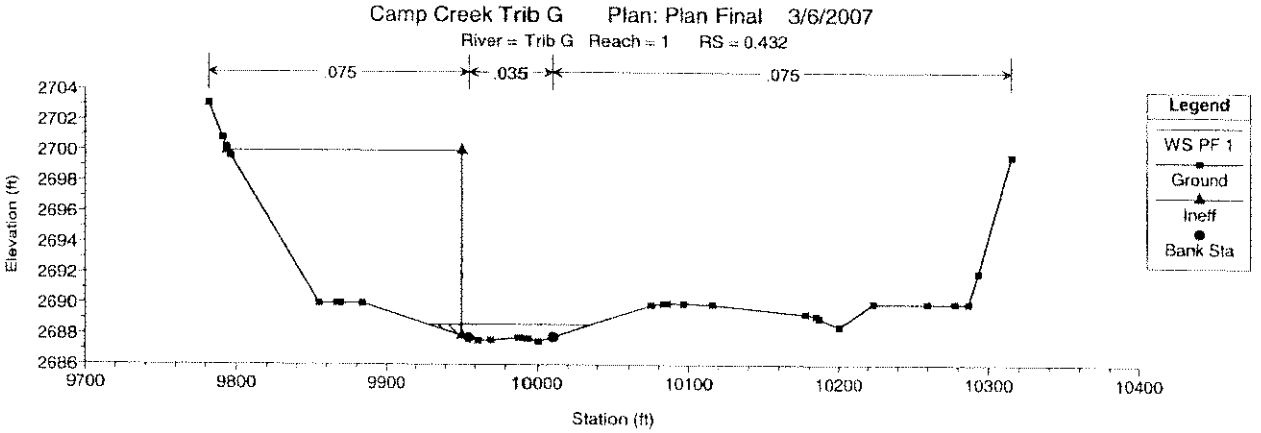
River = Trib G Reach = 1 RS = 0.762

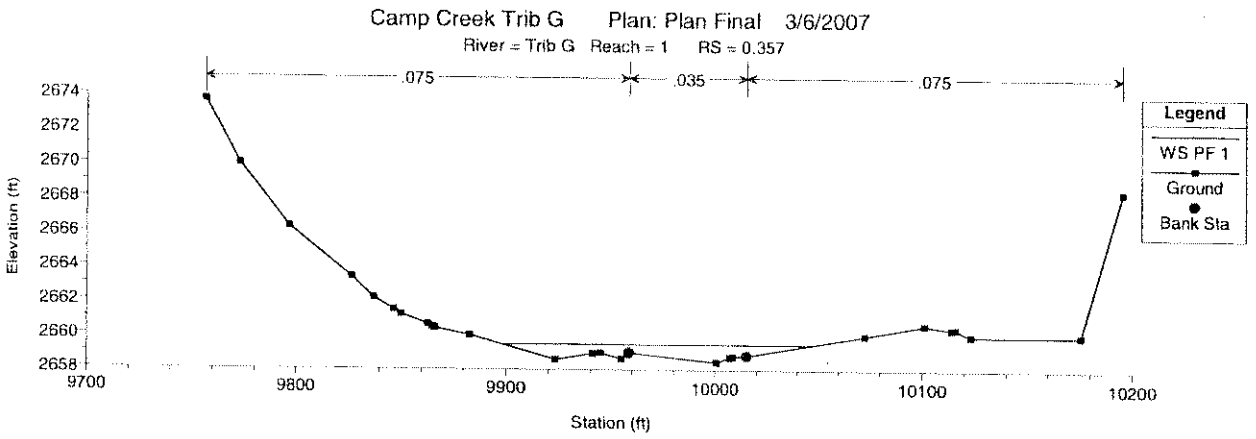


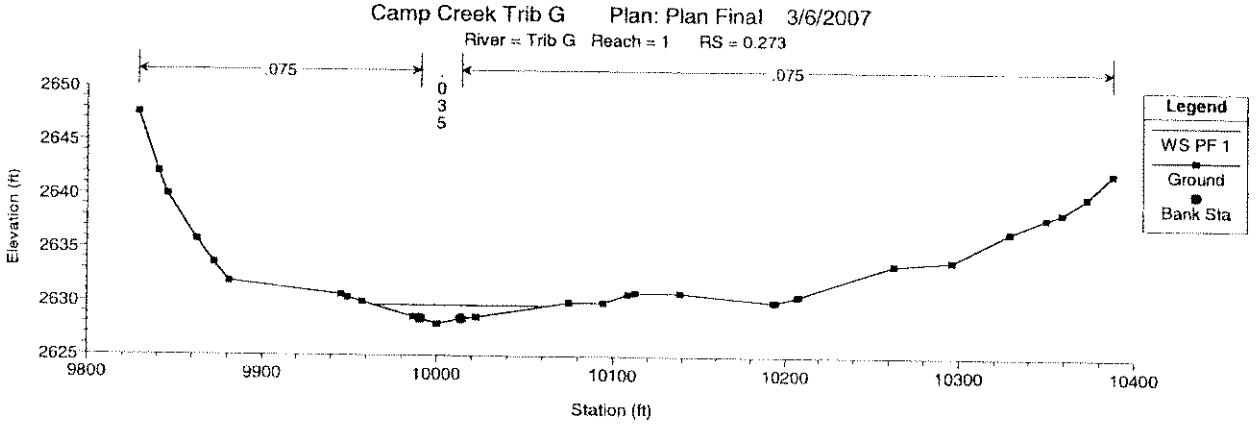

Camp Creek Trib G Plan: Plan Final 3/6/2007
River = Trib G Reach = 1 RS = 0.657
.075
.035
.075
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

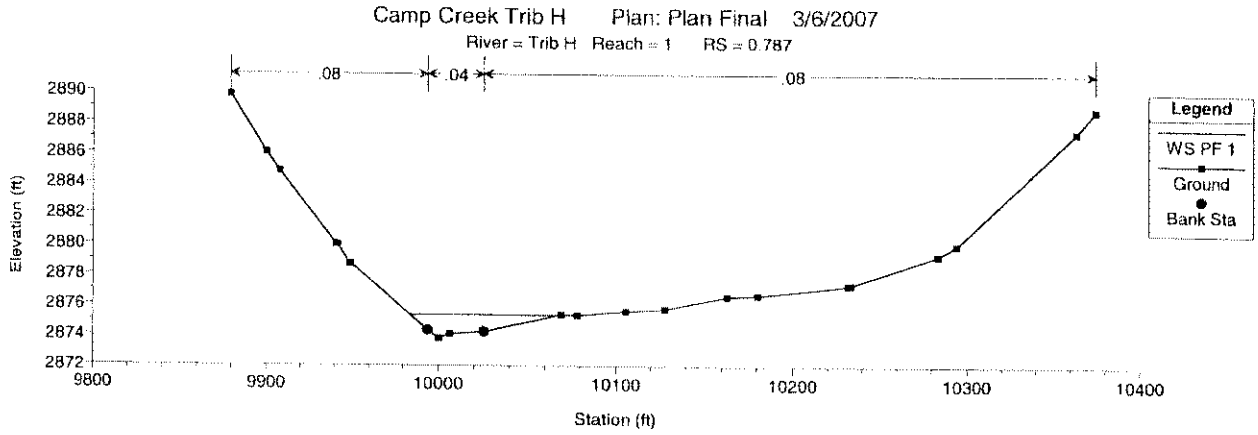

Camp Creek Trib G Plan: Plan Final 3/6/2007
River = Trib G Reach = 1 RS = 0.550
.075
.035
.075
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

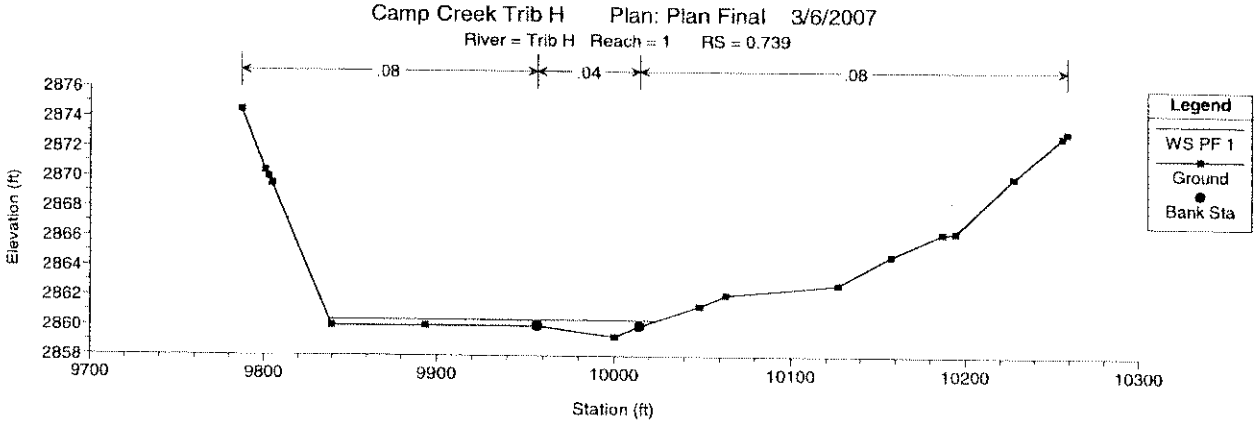

Camp Creek Trib G Plan: Plan Final 3/6/2007
River = Trib G Reach = 1 RS = 0.486
.075
.035
.075
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

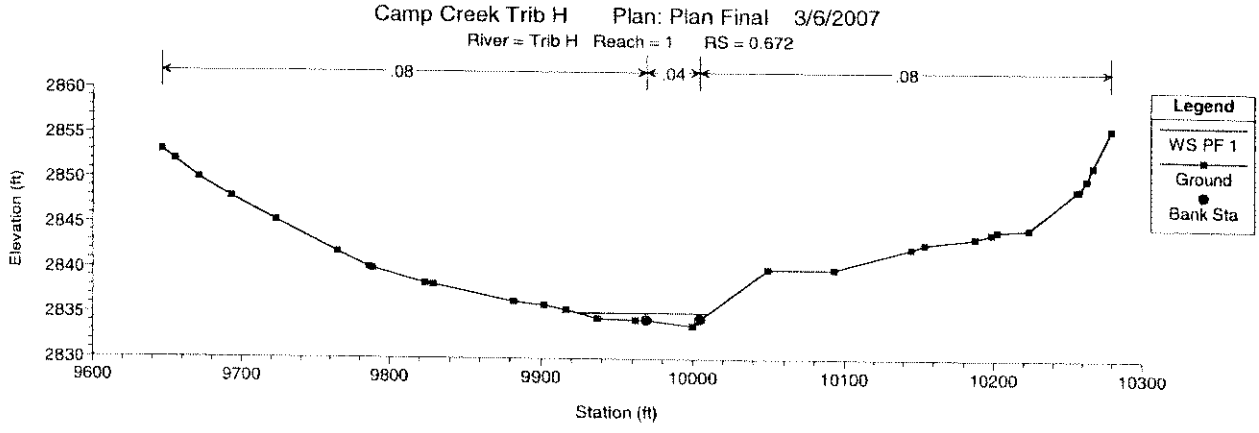

Camp Creek Trib G Plan: Plan Final 3/6/2007
River = Trib G Reach = 1 RS = 0.432
.075
.035
.075
Legend
WS PF 1
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)

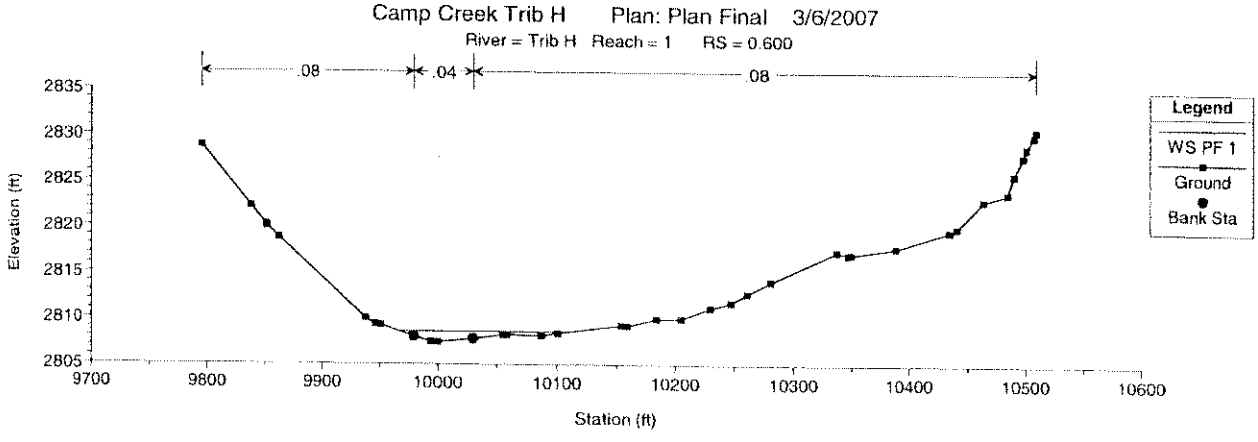

Camp Creek Trib G Plan: Plan Final 3/6/2007
River = Trib G Reach = 1 RS = 0.357
.075
.035
.075
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
2674
2672
2670
2668
2666
2664
2662
2660
2658
9700
9800
9900
10000
10100
10200
Station (ft)

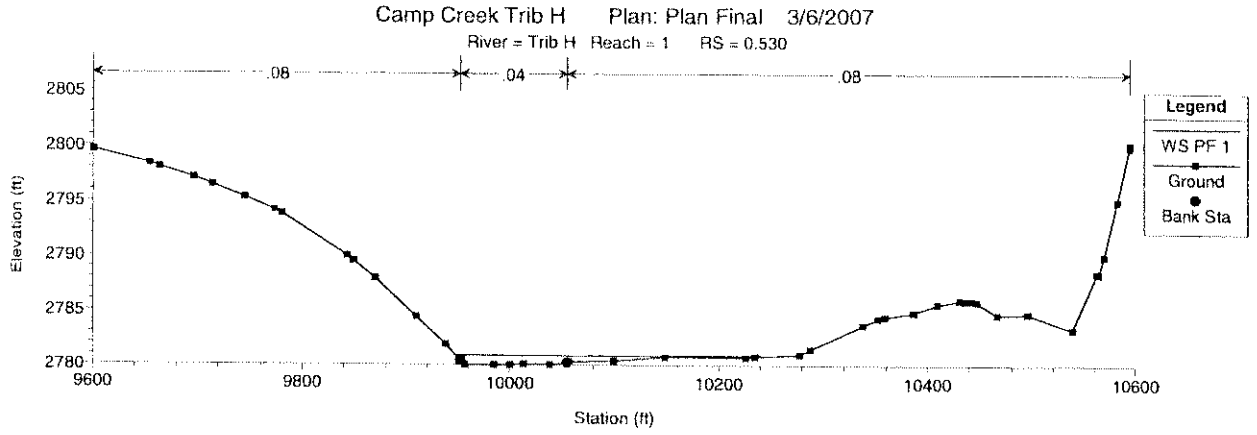

Camp Creek Trib G Plan: Plan Final 3/6/2007
River = Trib G Reach = 1 RS = 0.273
.075
.035
.075
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
2650
2645
2640
2635
2630
2625
9800
9900
10000
10100
10200
10300
10400
Station (ft)

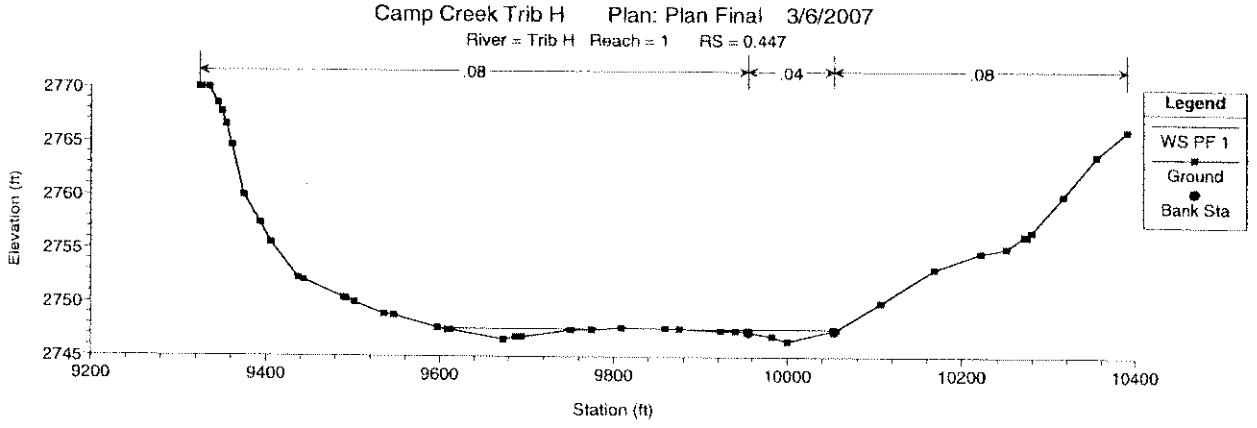

Camp Creek Trib H Plan: Plan Final 3/6/2007
River = Trib H Reach = 1 RS = 0.787
.08
.04
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

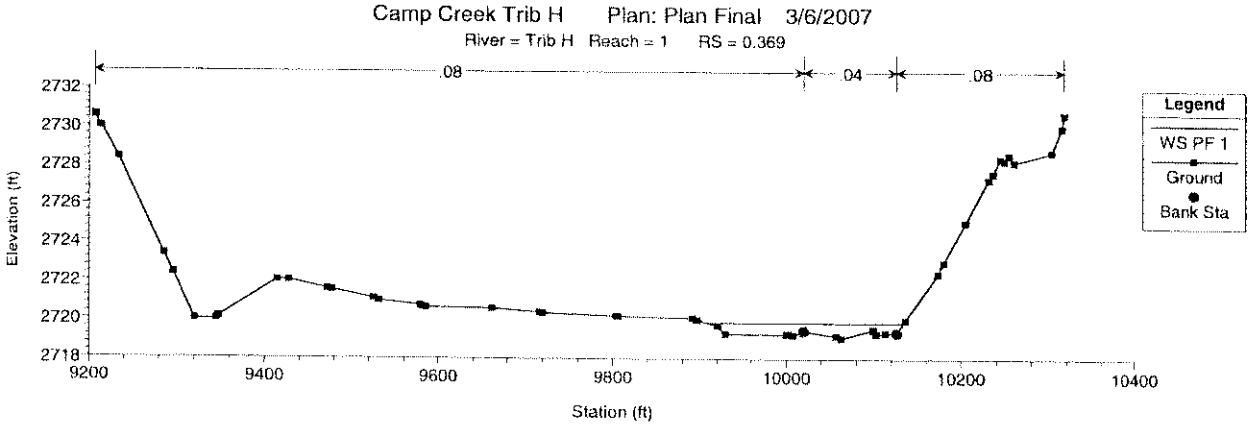

Camp Creek Trib H Plan: Plan Final 3/6/2007
River = Trib H Reach = 1 RS = 0.739
.08
.04
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

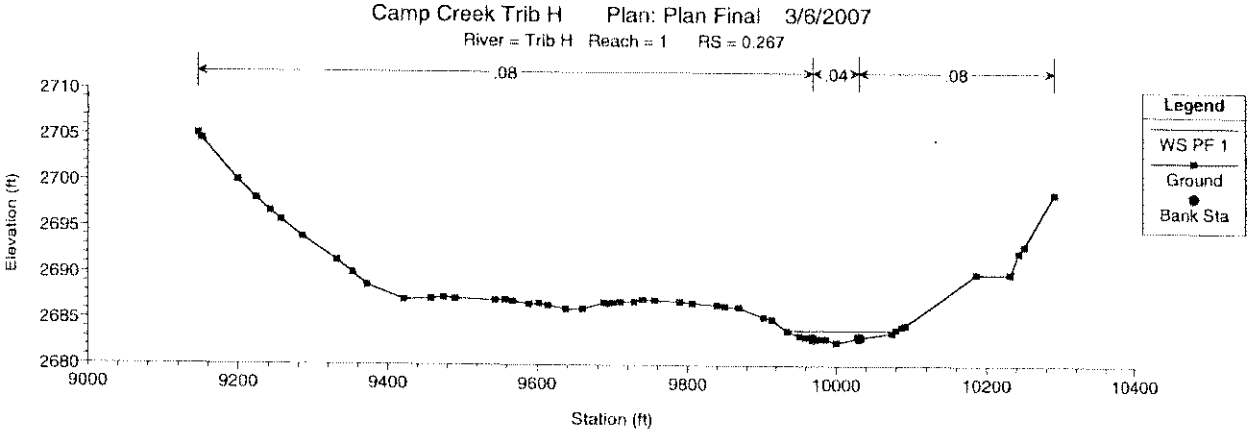

Camp Creek Trib H Plan: Plan Final 3/6/2007
River = Trib H Reach = 1 RS = 0.672
.08
.04
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

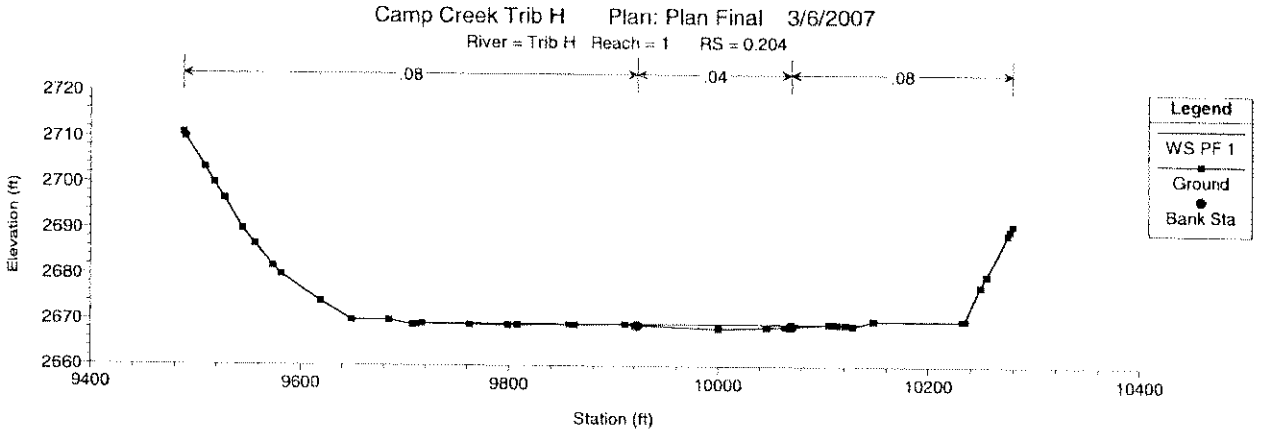

Camp Creek Trib H Plan: Plan Final 3/6/2007
River = Trib H Reach = 1 RS = 0.600
.08
.04
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

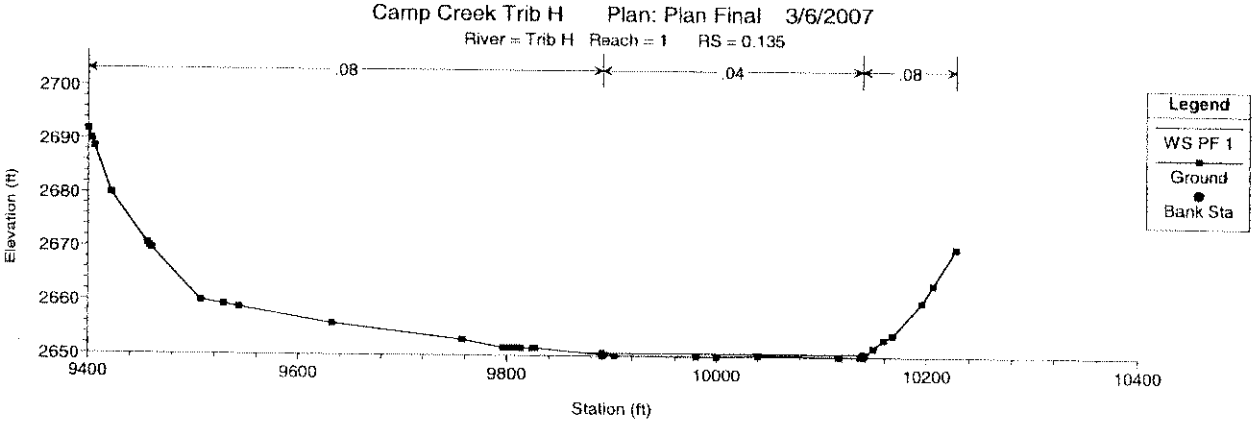

Camp Creek Trib H Plan: Plan Final 3/6/2007
River = Trib H Reach = 1 RS = 0.530
.08
.04
.08
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

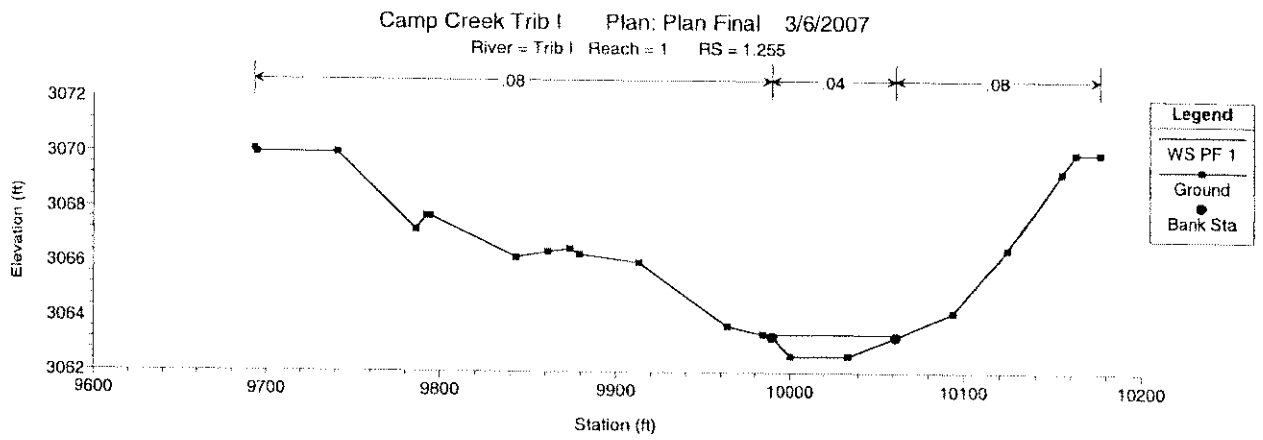

Camp Creek Trib H Plan: Plan Final 3/6/2007
River = Trib H Reach = 1 RS = 0.447
.08
.04
.08
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

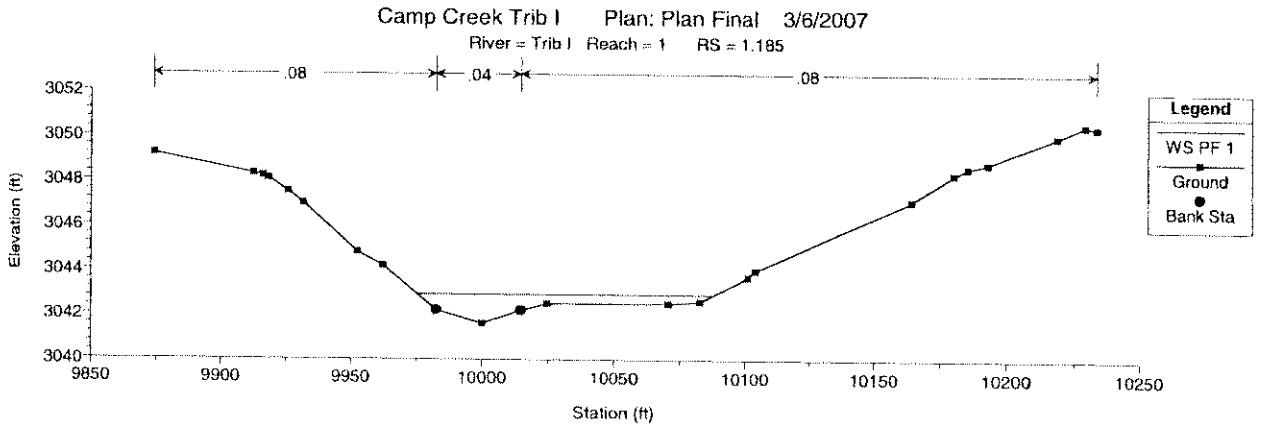

Camp Creek Trib H Plan: Plan Final 3/6/2007
River = Trib H Reach = 1 RS = 0.369
.08
.04
.08
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

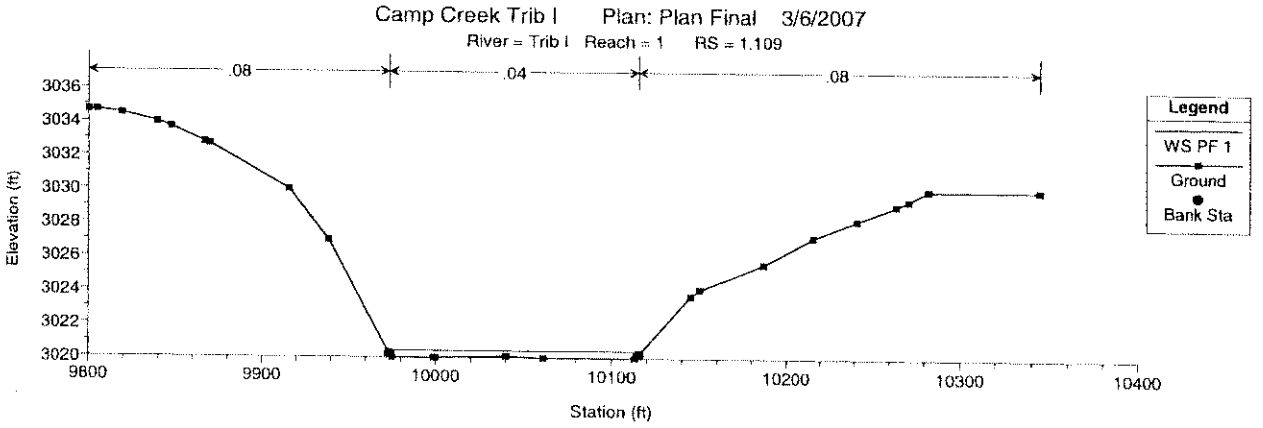

Camp Creek Trib H Plan: Plan Final 3/6/2007
River = Trib H Reach = 1 RS = 0.267
.08
.04
.08
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

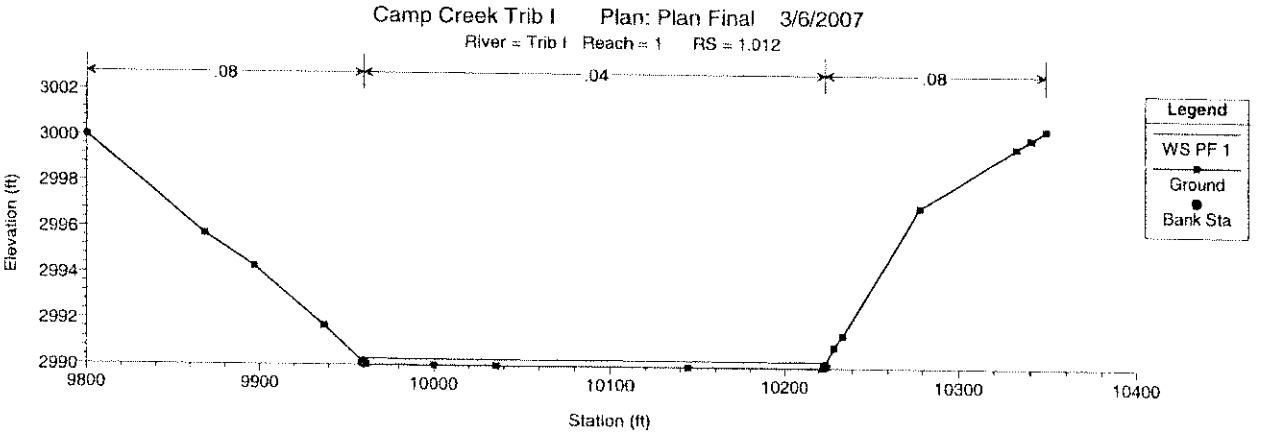

Camp Creek Trib H Plan: Plan Final 3/6/2007
River = Trib H Reach = 1 RS = 0.204
.08
.04
.08
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
2720
2710
2700
2690
2680
2670
2660
9400
9600
9800
10000
10200
10400
Station (ft)

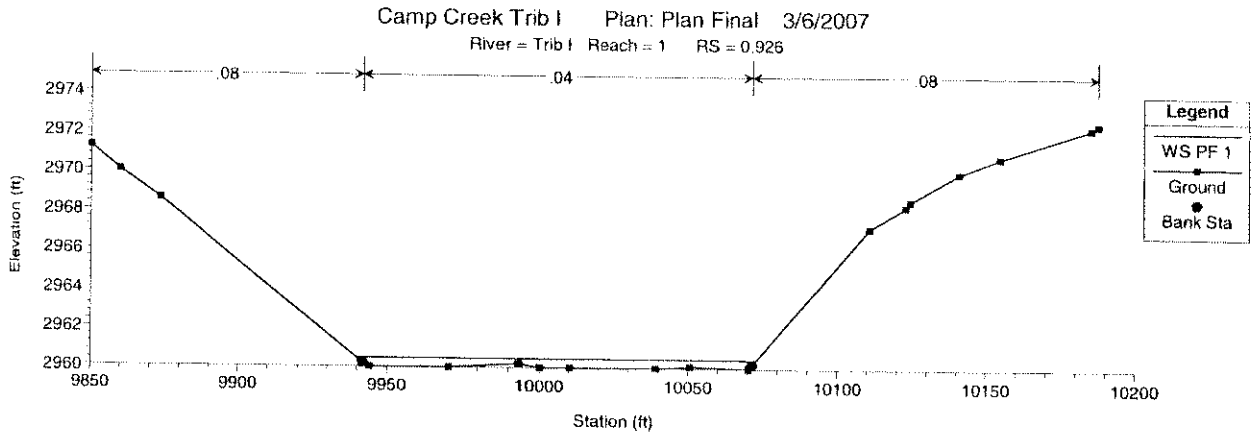

Camp Creek Trib H Plan: Plan Final 3/6/2007
River = Trib H Reach = 1 RS = 0.135
.08
.04
.08
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
2700
2690
2680
2670
2660
2650
9400
9600
9800
10000
10200
10400
Station (ft)

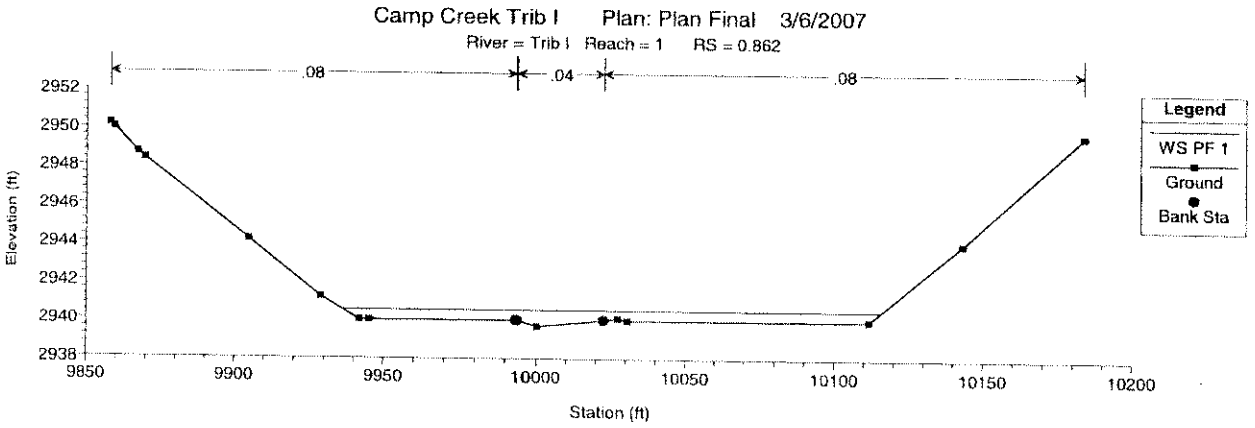

Camp Creek Trib I Plan: Plan Final 3/6/2007
River = Trib I Reach = 1 RS = 1.255
.08
.04
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

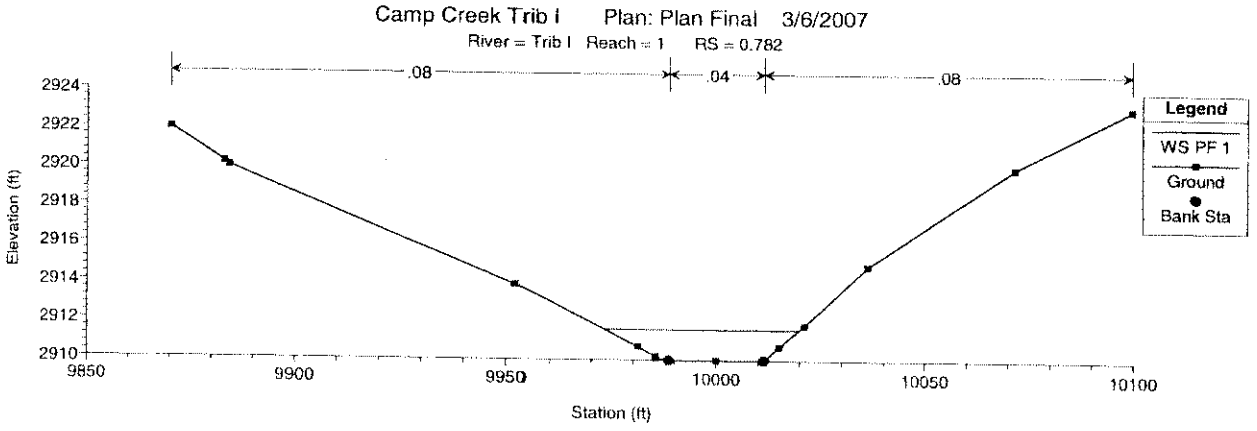

Camp Creek Trib I Plan: Plan Final 3/6/2007
River = Trib I Reach = 1 RS = 1.185
.08
.04
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

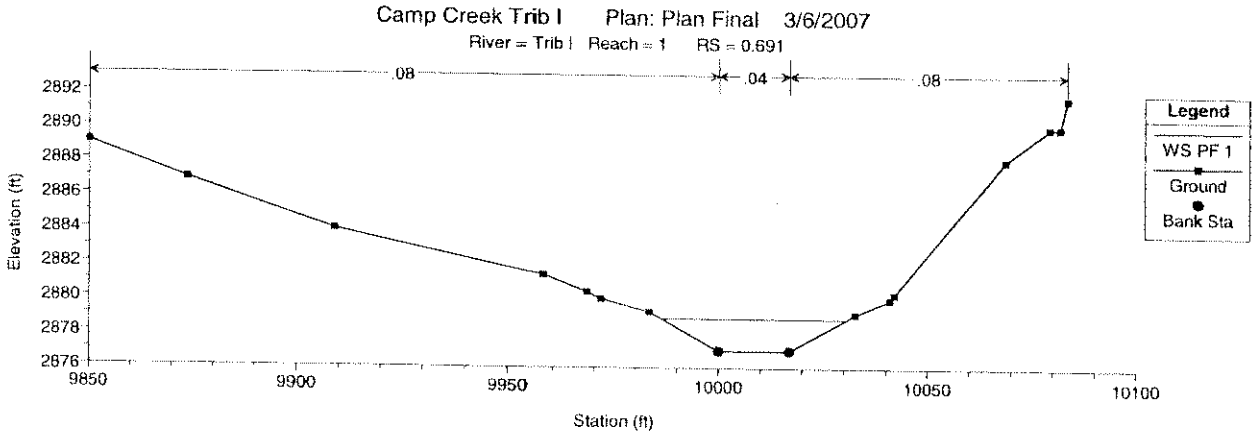

Camp Creek Trib I Plan: Plan Final 3/6/2007
River = Trib I Reach = 1 RS = 1.109
.08
.04
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

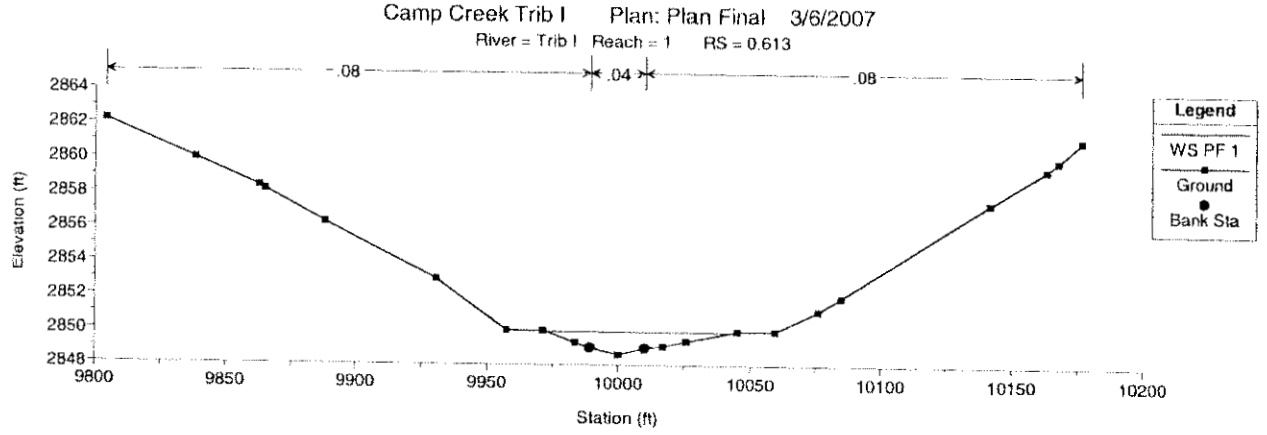

Camp Creek Trib I Plan: Plan Final 3/6/2007
River = Trib I Reach = 1 RS = 1.012
.08
.04
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

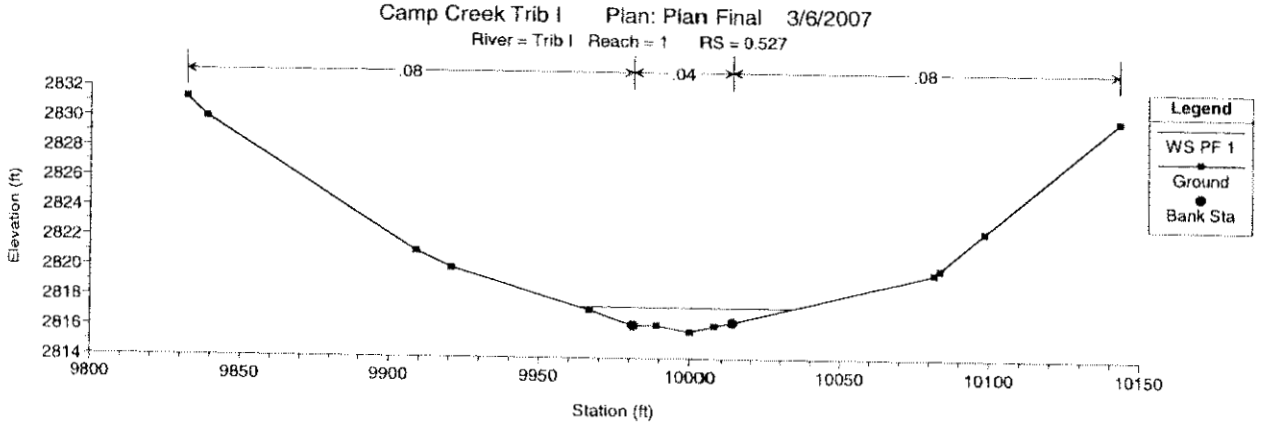

Camp Creek Trib I Plan: Plan Final 3/6/2007
River = Trib I Reach = 1 RS = 0.926
.08
.04
.08
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

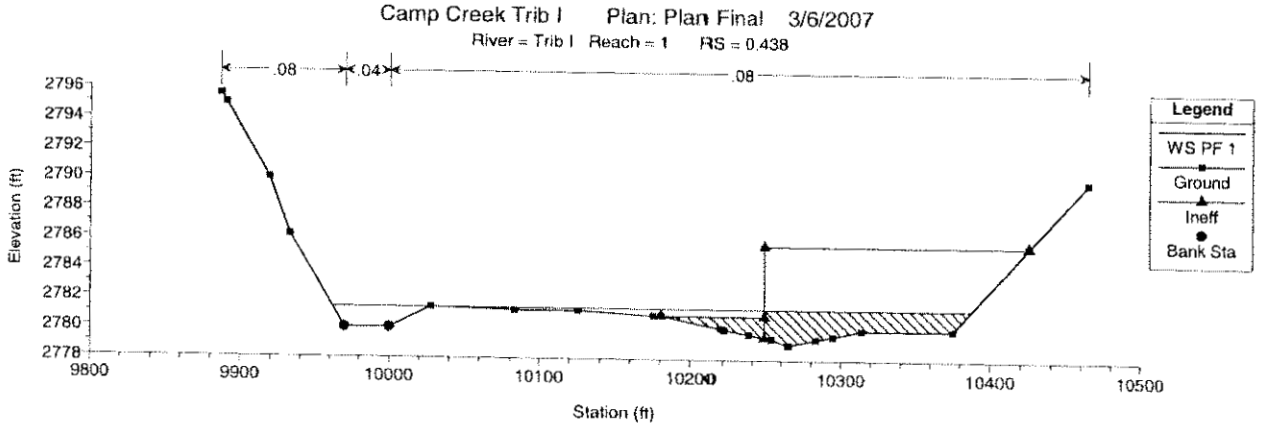

Camp Creek Trib I Plan: Plan Final 3/6/2007
River = Trib I Reach = 1 RS = 0.862
.08
.04
.08
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

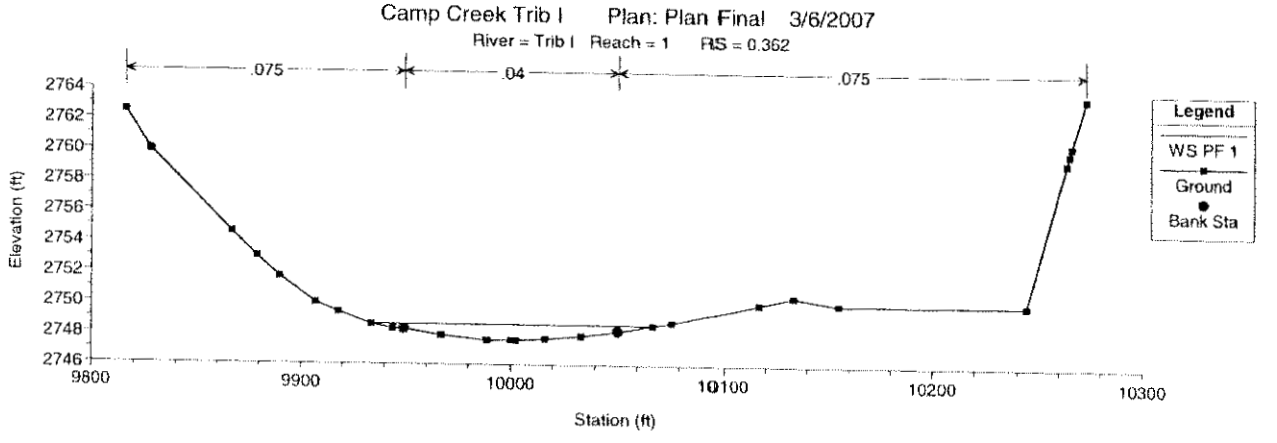

Camp Creek Trib I Plan: Plan Final 3/6/2007
River = Trib I Reach = 1 RS = 0.782
.08
.04
.08
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

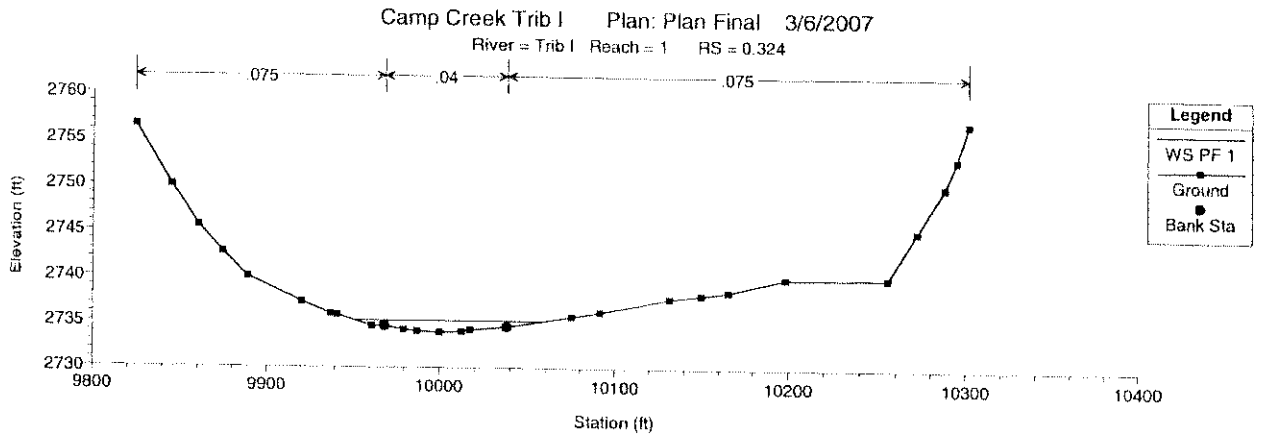

Camp Creek Trib I Plan: Plan Final 3/6/2007
River = Trib I Reach = 1 RS = 0.691
.08
.04
.08
Legend
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

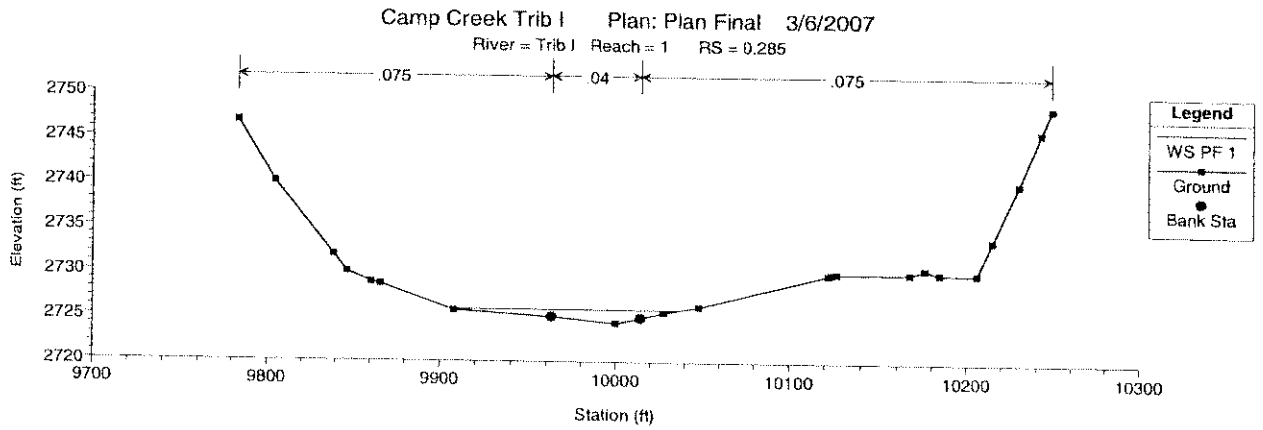

Camp Creek Trib I Plan: Plan Final 3/6/2007
River = Trib I Reach = 1 RS = 0.613
.08
.04
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

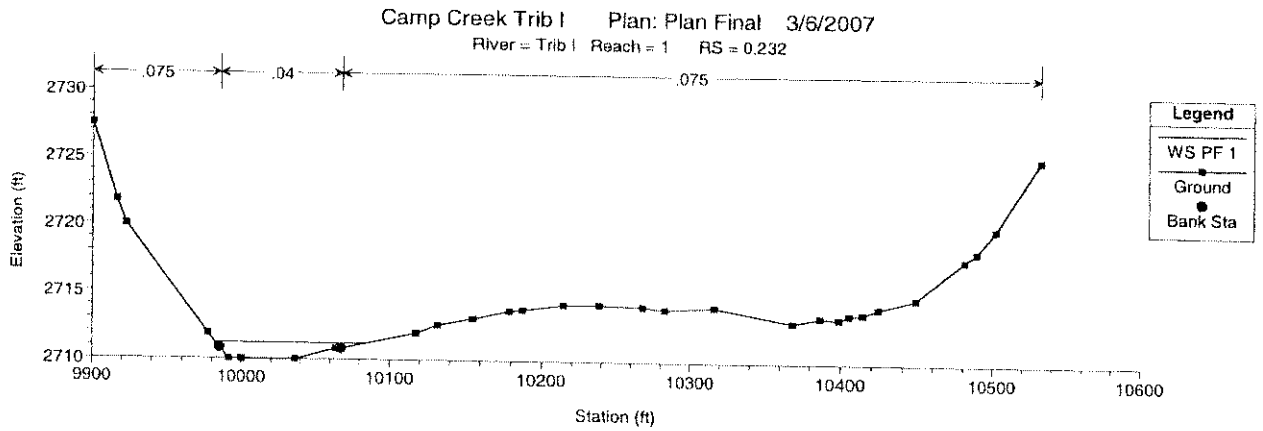

Camp Creek Trib I Plan: Plan Final 3/6/2007
River = Trib I Reach = 1 RS = 0.527
.08
.04
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

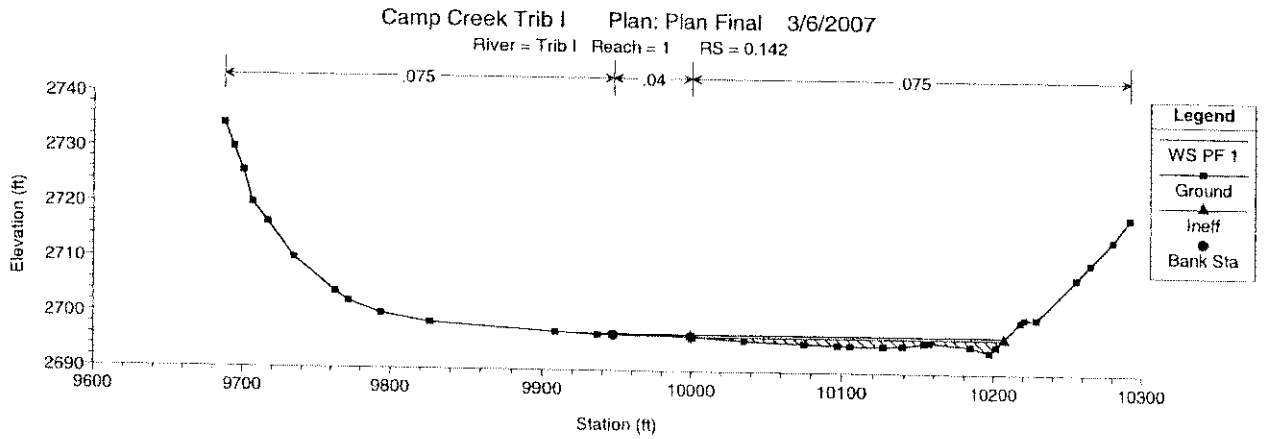

Camp Creek Trib I Plan: Plan Final 3/6/2007
River = Trib I Reach = 1 RS = 0.438
.08
.04
.08
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Ineff
Bank Sta

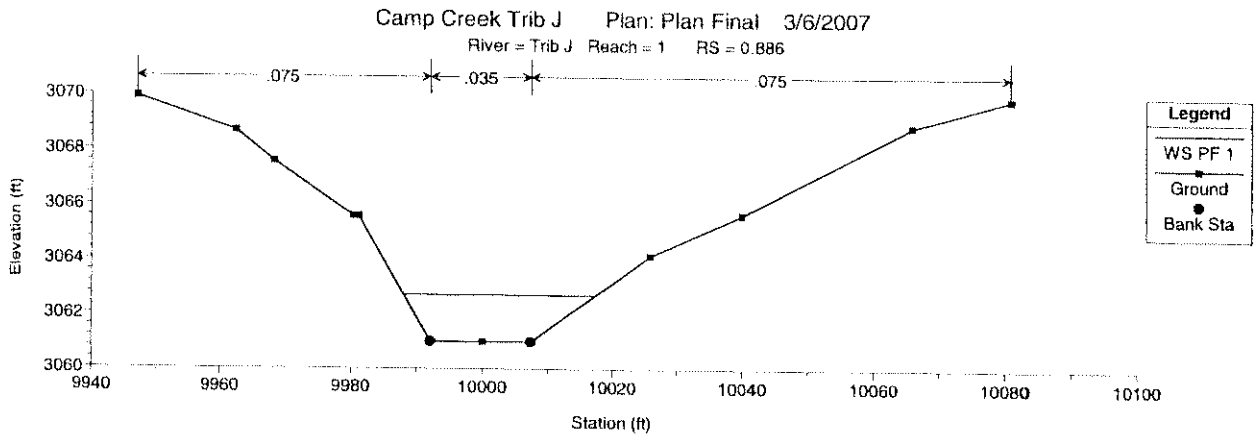

Camp Creek Trib I Plan: Plan Final 3/6/2007
River = Trib I Reach = 1 RS = 0.362
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

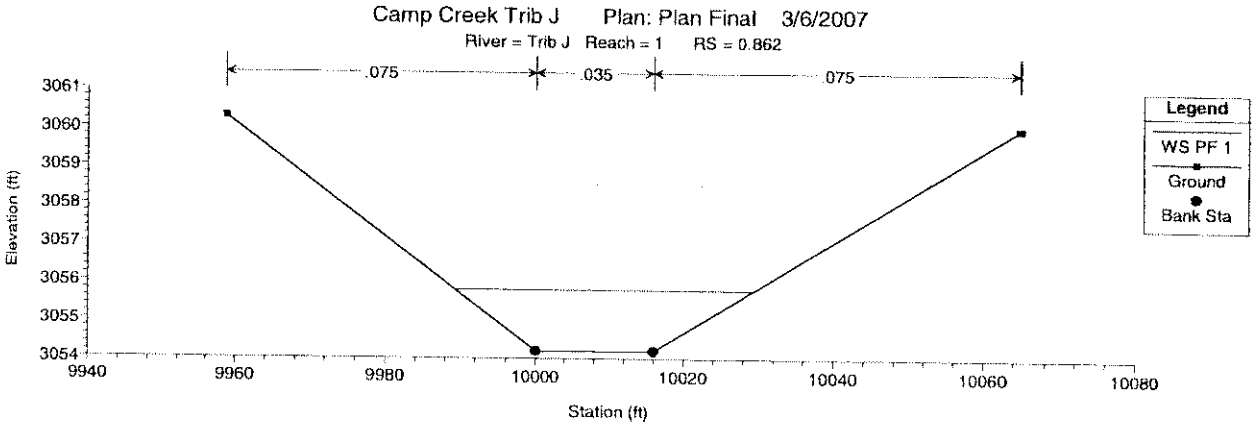

Camp Creek Trib I Plan: Plan Final 3/6/2007
River = Trib I Reach = 1 RS = 0.324
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

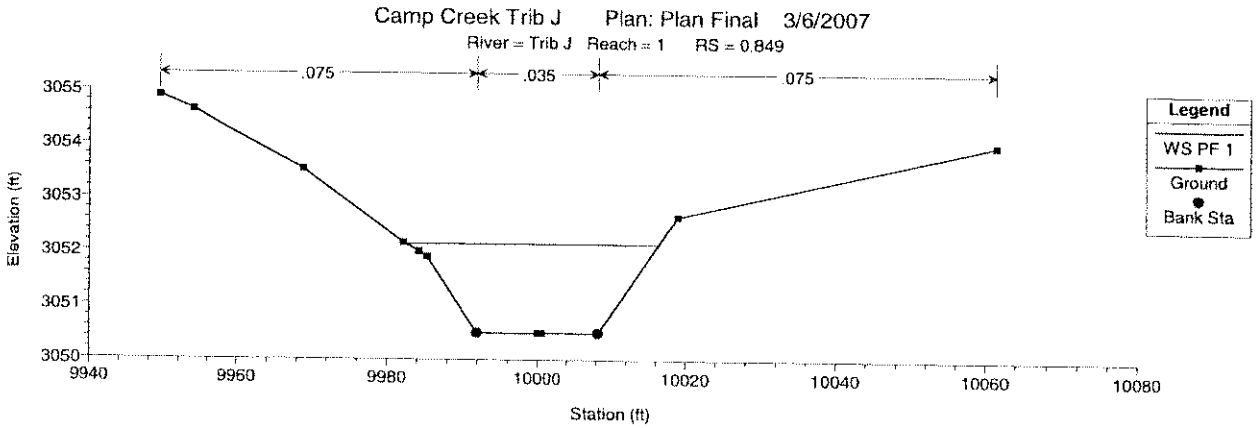

Camp Creek Trib I Plan: Plan Final 3/6/2007
River = Trib I Reach = 1 RS = 0.285
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

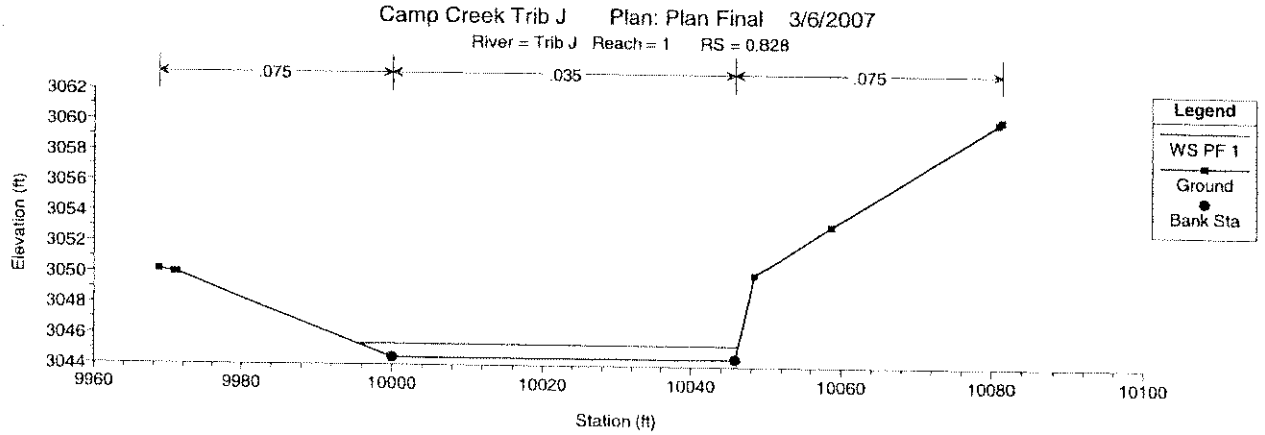

Camp Creek Trib I Plan: Plan Final 3/6/2007
River = Trib I Reach = 1 RS = 0.232
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

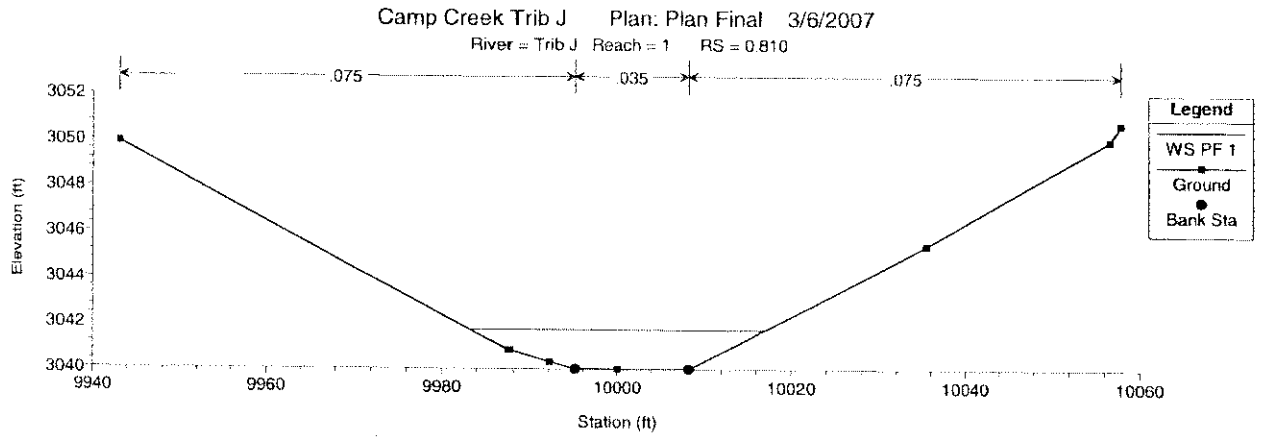

Camp Creek Trib I Plan: Plan Final 3/6/2007
River = Trib I Reach = 1 RS = 0.142
.075
.04
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Ineff
Bank Sta

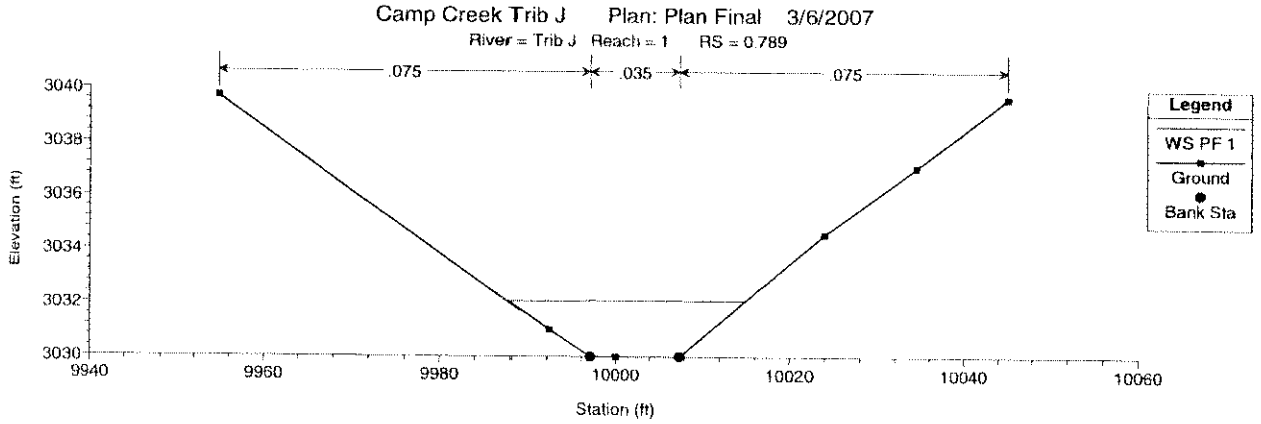

Camp Creek Trib J Plan: Plan Final 3/6/2007
River = Trib J Reach = 1 RS = 0.886
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

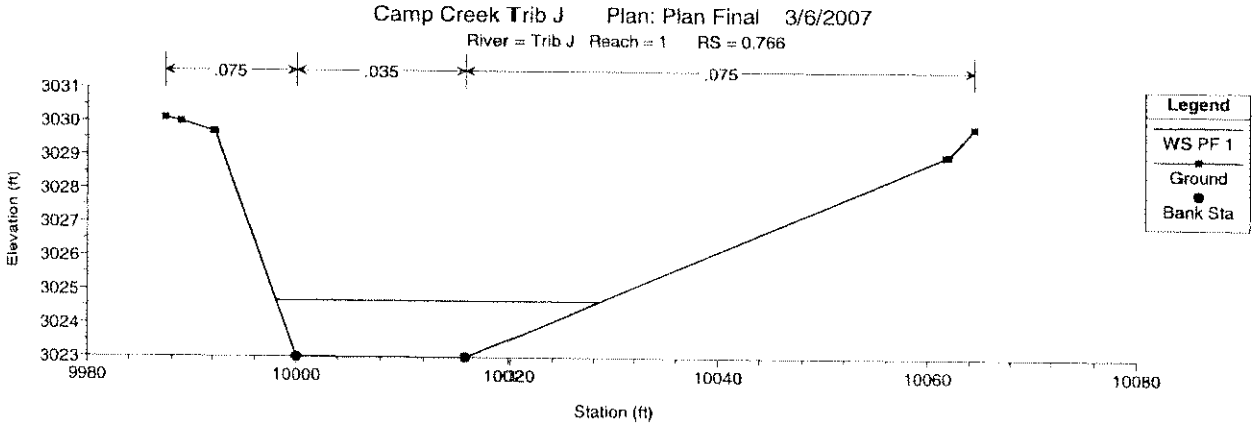

Camp Creek Trib J Plan: Plan Final 3/6/2007
River = Trib J Reach = 1 RS = 0.862
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

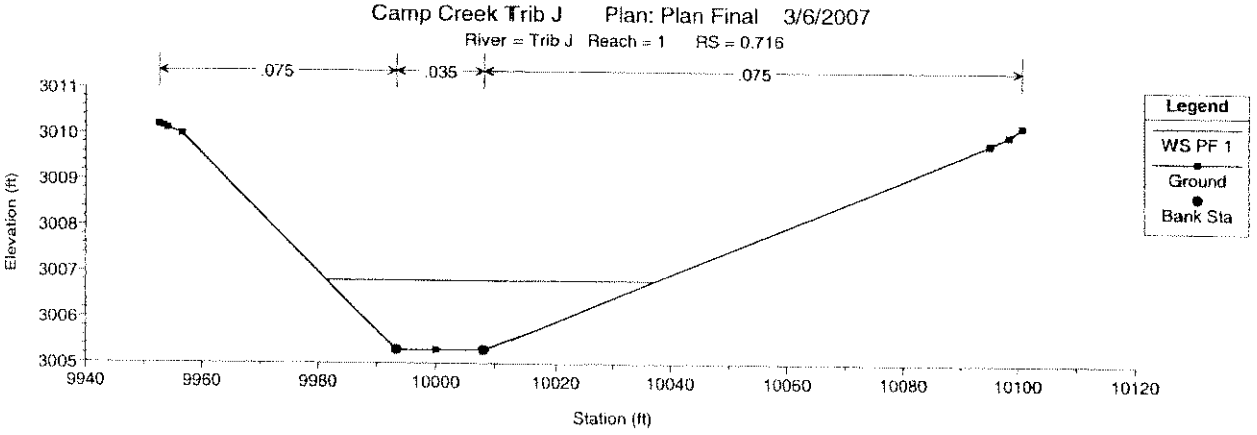

Camp Creek Trib J Plan: Plan Final 3/6/2007
River = Trib J Reach = 1 RS = 0.849
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

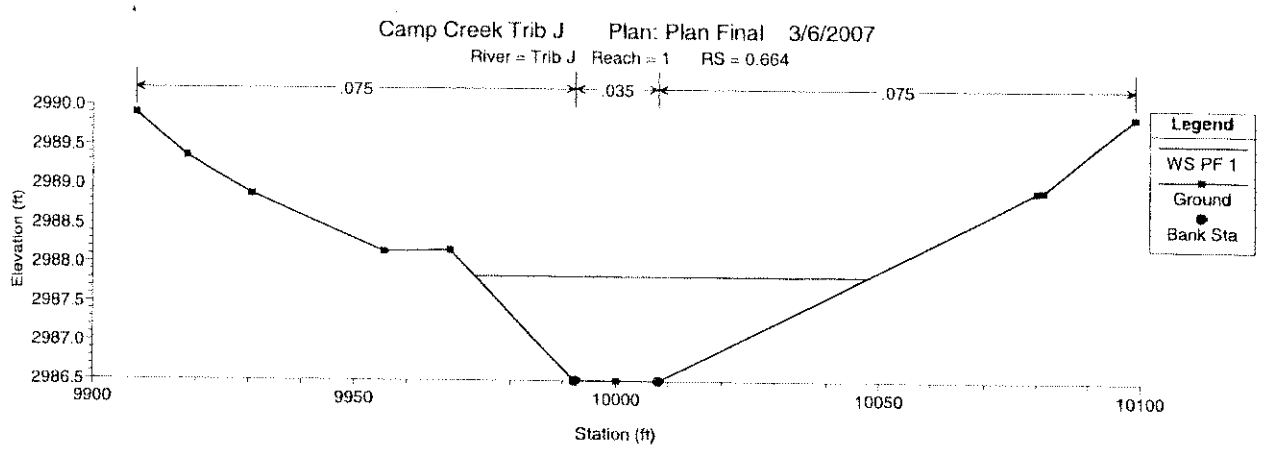

Camp Creek Trib J Plan: Plan Final 3/6/2007
River = Trib J Reach = 1 RS = 0.828
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

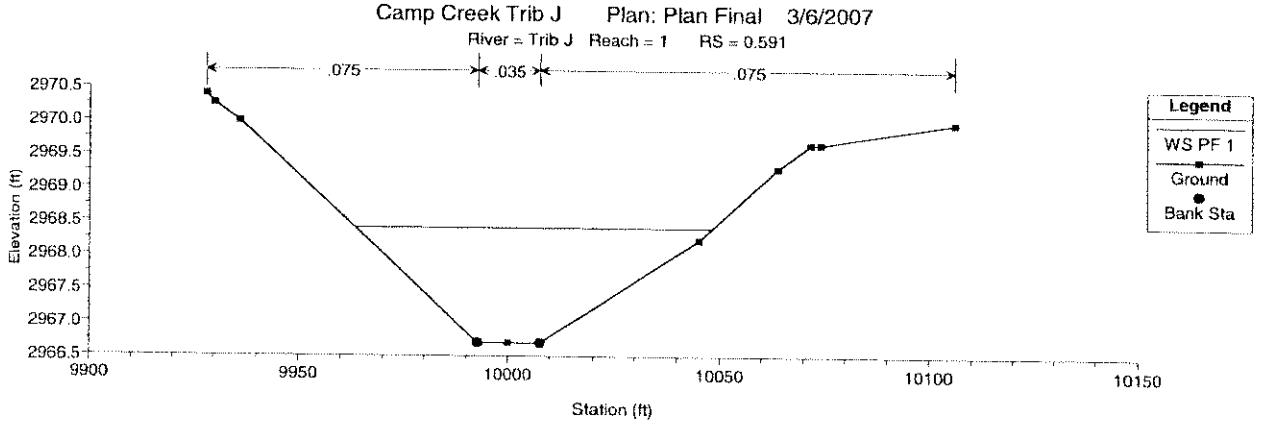

Camp Creek Trib J Plan: Plan Final 3/6/2007
River = Trib J Reach = 1 RS = 0.810
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

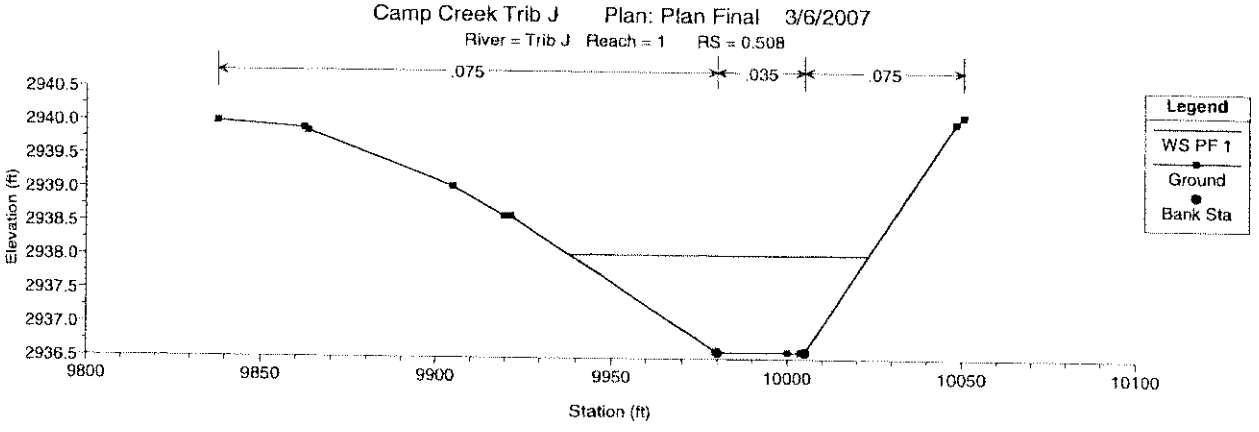

Camp Creek Trib J Plan: Plan Final 3/6/2007
River = Trib J Reach = 1 RS = 0.789
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

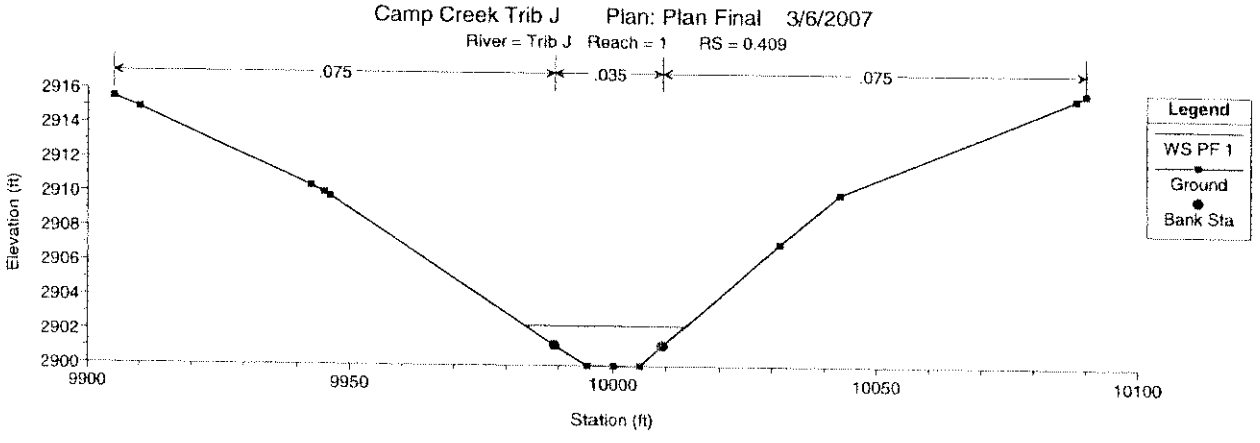

Camp Creek Trib J Plan: Plan Final 3/6/2007
River = Trib J Reach = 1 RS = 0.766
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

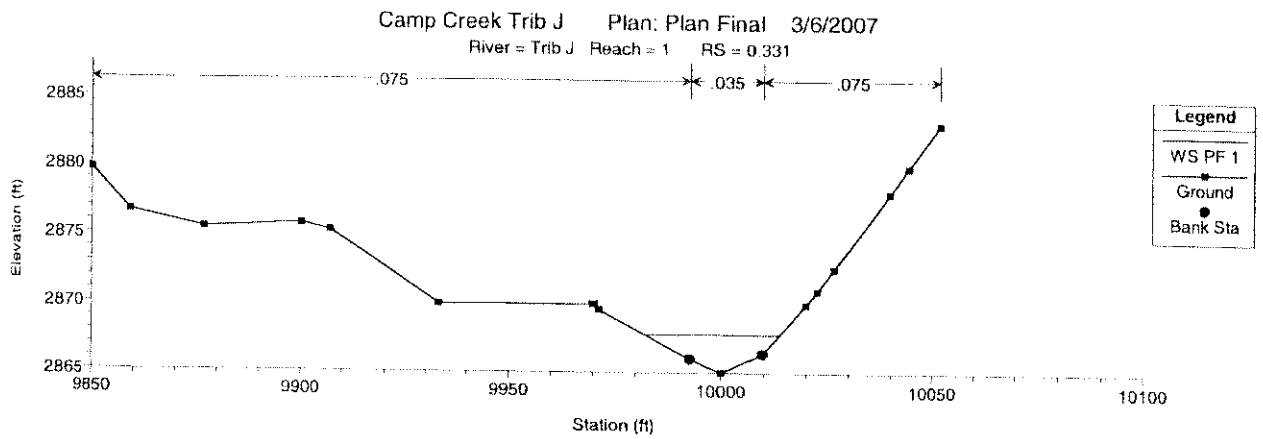

Camp Creek Trib J Plan: Plan Final 3/6/2007
River = Trib J Reach = 1 RS = 0.716
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

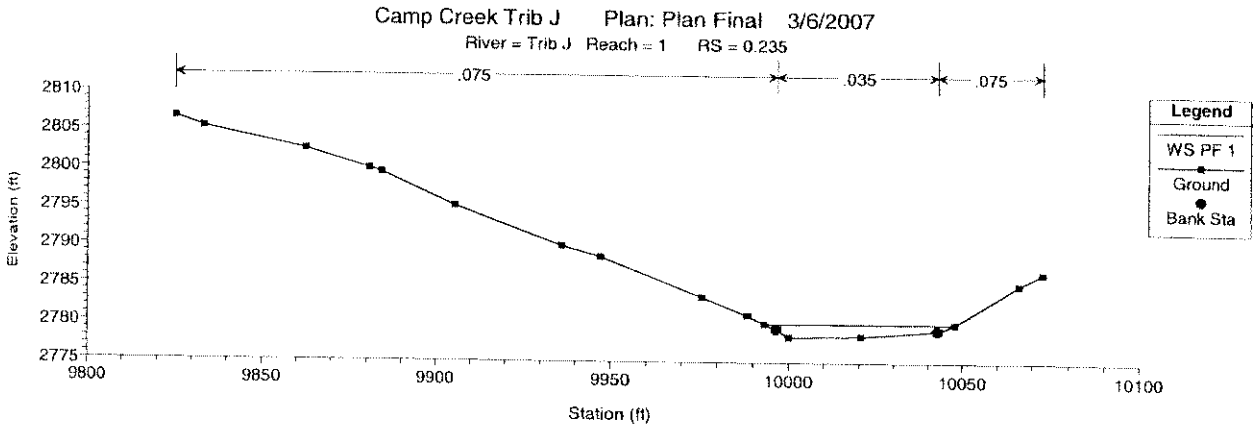

Camp Creek Trib J Plan: Plan Final 3/6/2007
River = Trib J Reach = 1 RS = 0.664
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

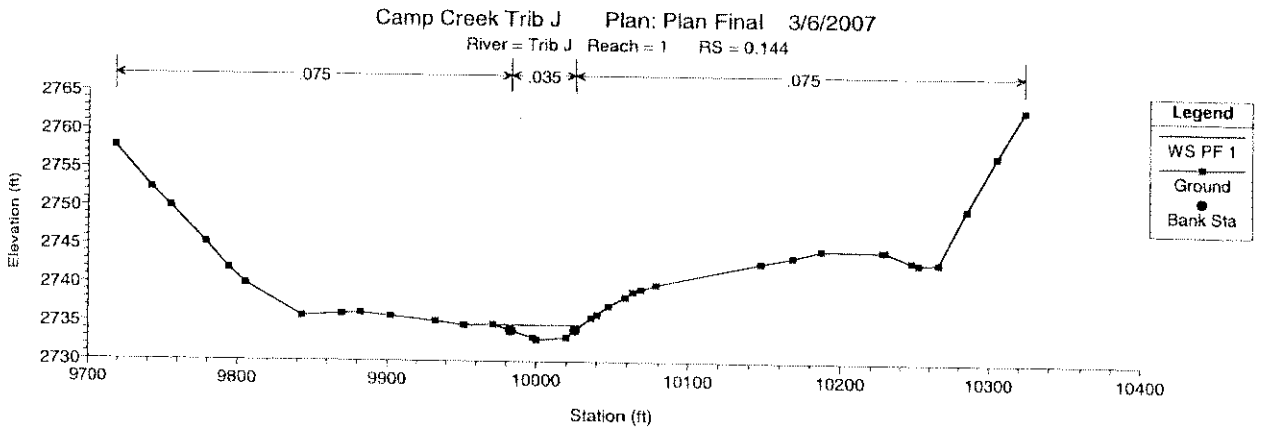

Camp Creek Trib J Plan: Plan Final 3/6/2007
River = Trib J Reach = 1 RS = 0.591
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib J Plan: Plan Final 3/6/2007
River = Trib J Reach = 1 RS = 0.508
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib J Plan: Plan Final 3/6/2007
River = Trib J Reach = 1 RS = 0.409
.075
.035
.075
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib J Plan: Plan Final 3/6/2007
River = Trib J Reach = 1 RS = 0.331
.075
.035
.075
Elevation (ft)
2885
2880
2875
2870
2865
9850
9900
9950
10000
10050
10100
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib J Plan: Plan Final 3/6/2007
River = Trib J Reach = 1 RS = 0.235
.075
.035
.075
Elevation (ft)
2810
2805
2800
2795
2790
2785
2780
2775
9800
9850
9900
9950
10000
10050
10100
Station (ft)
Legend
WS PF 1
Ground
Bank Sta


Camp Creek Trib J Plan: Plan Final 3/6/2007
River = Trib J Reach = 1 RS = 0.144
.075
.035
.075
Elevation (ft)
2765
2760
2755
2750
2745
2740
2735
2730
9700
9800
9900
10000
10100
10200
10300
10400
Station (ft)
Legend
WS PF 1
Ground
Bank Sta

E.3 Expansion and Contraction Coefficients

The expansion and contraction coefficients used for the study reaches are the default values of 0.3 and 0.1 respectively.

E.4 Analysis of Structures

There was no analysis of structures conducted for this study.

E.5 Hydraulic Calculations

The hydraulic calculations are located on the following pages.

TABLE 1		HEC-RAS Plan: Plan Final Profile: PF 1											
River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Trib A2	1	0.673	PF 1	143	2598	2599.06	2599.06	2599.51	0.023168	5.6	29.64	37.89	0.99
Trib A2	1	0.561	PF 1	143	2584	2585.01	2585.01	2585.46	0.022786	5.43	28.21	36.5	0.98
Trib A2	1	0.466	PF 1	143	2570.2	2571.93	2571.9	2572.28	0.025196	4.73	30.24	41.72	0.98
Trib A2	1	0.392	PF 1	214	2561.3	2562.43	2562.43	2562.74	0.023631	4.78	57.06	98.51	0.96
Trib A2	1	0.337	PF 1	214	2554	2554.79	2554.79	2555.13	0.023927	4.75	47.15	79.42	0.97
Trib A2	1	0.291	PF 1	214	2548	2549.04	2548.98	2549.42	0.018195	5.03	46.13	54.43	0.88
Trib A2	1	0.232	PF 1	214	2540	2540.82	2540.82	2541.12	0.041597	6.1	61.13	103.74	1.26
Trib A2	1	0.143	PF 1	285	2526.7	2528.17	2528.17	2528.49	0.017123	5.12	87.5	139.64	0.87
Trib A2	1	0.061	PF 1	285	2515.7	2516.81	2516.81	2517.14	0.021414	5.03	78.67	137.52	0.94
Trib A1	1	0.999	PF 1	182	2490	2491.53	2491.53	2492.17	0.019437	6.52	30.76	27.33	0.96
Trib A1	1	0.956	PF 1	182	2482	2483.63	2483.63	2484.31	0.01935	6.67	29.5	24.68	0.97
Trib A1	1	0.904	PF 1	182	2474	2476.27	2476.27	2477.1	0.016349	8.11	33.28	24.14	0.96
Trib A1	1	0.814	PF 1	182	2462	2463.71	2463.71	2464.41	0.01815	7.03	31.73	25.66	0.96
Trib A1	1	0.743	PF 1	182	2450	2451.46	2451.46	2451.96	0.025269	6.66	41.36	49.09	1.07
Trib A1	1	0.696	PF 1	182	2444	2444.68	2444.68	2444.98	0.026651	4.44	44.26	83.14	0.99
Trib A1	1	0.637	PF 1	182	2434	2434.91	2434.91	2435.32	0.02401	5.2	36.76	48.36	0.99
Trib A1	1	0.581	PF 1	273	2424	2424.82	2424.82	2425.22	0.024561	5.06	55.2	72.62	0.99
Trib A1	1	0.529	PF 1	273	2414	2415.33	2415.33	2415.81	0.016484	5.8	58.29	70.5	0.98
Trib A1	1	0.469	PF 1	273	2403.4	2404.25	2404.25	2404.52	0.024631	4.97	85.74	159.39	1.09
Trib A1	1	0.4	PF 1	273	2388	2389.94	2389.94	2391.23	0.026456	10.5	43.59	37.14	1.35
Trib A1	1	0.34	PF 1	273	2377	2378.07	2378.07	2378.3	0.014962	4.92	111.24	207.79	0.9
Trib A1	1	0.267	PF 1	273	2362	2362.55	2362.55	2362.75	0.028465	4.5	99.01	226.62	1.12
Trib A1	1	0.186	PF 1	364	2345	2345.73	2345.73	2346.03	0.022654	4.67	92.76	159.46	1.04
Trib A1	1	0.094	PF 1	364	2323.8	2324.54	2324.54	2324.8	0.034595	5.4	112.5	213.54	1.27
Trib A	3	3.05	PF 1	386	2715.7	2716.98	2716.98	2717.33	0.019822	5.67	116.69	185.1	0.94
Trib A	3	2.975	PF 1	386	2704.47	2705.91	2705.91	2706.32	0.022726	7.01	116.46	162.87	1.04
Trib A	3	2.903	PF 1	386	2693.9	2695.07	2695.07	2695.45	0.019097	5.42	101.75	165.96	0.92
Trib A	3	2.862	PF 1	386	2688	2689.13	2689.13	2689.57	0.020671	5.8	89.69	108.24	0.96
Trib A	3	2.79	PF 1	386	2678.2	2679.82	2679.82	2680.32	0.021393	6.02	79.45	92.33	0.98
Trib A	3	2.672	PF 1	386	2662	2663.32	2663.32	2663.64	0.025391	5.93	114.83	296.05	1.04
Trib A	3	2.583	PF 1	386	2650	2650.87	2650.74	2651.05	0.014599	3.64	129.06	208.46	0.75
Trib A	3	2.532	PF 1	578	2644	2645.09	2645.05	2645.43	0.027939	5.28	143.64	221.37	1.05
Trib A	3	2.461	PF 1	578	2634	2635.73	2635.73	2636.27	0.021781	7.09	129.49	124.82	1.03
Trib A	3	2.376	PF 1	578	2624	2625.91	2625.91	2626.69	0.019087	7.7	100.22	75.57	1

TABLE 1		HEC-RAS Plan: Plan Final Profile: PF 1											
River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Trib A	3	2.27	PF 1	578	2610	2611.65	2611.65	2612.22	0.030587	6.87	109.82	106.96	1.16
Trib A	3	2.153	PF 1	578	2594	2595.4	2595.4	2595.98	0.018655	6.34	112.37	130.95	0.95
Trib A	3	2.035	PF 1	771	2578	2578.94	2578.94	2579.45	0.026086	5.76	138.61	155.95	1.05
Trib A	3	1.924	PF 1	771	2562	2563.44	2563.44	2563.99	0.020165	6.67	165.16	160.7	0.99
Trib A	3	1.823	PF 1	771	2547.1	2548.73	2548.73	2549.22	0.022351	6.37	171.25	180.68	1.01
Trib A	3	1.732	PF 1	771	2532	2533.85	2533.85	2534.36	0.021693	6.37	158.66	244.06	1
Trib A	3	1.648	PF 1	771	2518	2519.3	2519.3	2519.83	0.019057	6.11	153.04	157.06	0.94
Trib A	2	1.593	PF 1	1030	2506.8	2508.38	2508.38	2508.82	0.017017	5.64	239.67	314.97	0.98
Trib A	2	1.505	PF 1	1030	2493.1	2494.74	2494.74	2495.34	0.015388	6.6	198.31	175.38	0.98
Trib A	2	1.443	PF 1	1030	2482.5	2485.08	2485.08	2485.6	0.014017	6.48	239.77	234.87	0.94
Trib A	2	1.379	PF 1	1030	2473.4	2475.15	2475.15	2475.71	0.014225	6.07	188.84	230.47	0.93
Trib A	2	1.306	PF 1	1030	2460.7	2462.66	2462.66	2463.27	0.014132	6.39	179.76	176.56	0.94
Trib A	2	1.248	PF 1	1080	2450.7	2453.21	2453.21	2453.85	0.013833	7.66	240.44	182.5	0.98
Trib A	2	1.165	PF 1	1080	2436.4	2437.89	2437.89	2438.46	0.016274	6.09	184.35	176.18	0.98
Trib A	2	1.086	PF 1	1080	2422.8	2425.1	2425.1	2425.77	0.014294	6.88	193	179.26	0.96
Trib A	2	1.021	PF 1	1080	2411.3	2413.13	2413.13	2413.74	0.01633	7.67	237.66	237.02	1.04
Trib A	2	0.951	PF 1	1080	2398	2399.72	2399.72	2400.31	0.019286	6.76	208.72	198.98	1.07
Trib A	2	0.859	PF 1	1080	2380	2381.52	2381.52	2382.12	0.015807	6.4	198.67	199.49	0.98
Trib A	2	0.778	PF 1	1133	2361.6	2363.87	2363.87	2364.28	0.010537	5.96	352.3	433.61	0.83
Trib A	2	0.678	PF 1	1133	2341.3	2343.17	2343.17	2343.72	0.012834	6.51	262.77	268.55	0.91
Trib A	2	0.584	PF 1	1133	2320.1	2321.91	2321.91	2322.31	0.014208	6.02	327.49	403.57	0.93
Trib A	1	0.499	PF 1	1423	2301.8	2303.89	2303.89	2304.64	0.013783	7.05	221.04	170.54	0.96
Trib A	1	0.416	PF 1	1423	2283	2284.89	2284.89	2285.29	0.016234	6.63	413.78	450.76	1
Trib A	1	0.33	PF 1	1423	2261.8	2263.94	2263.94	2265.07	0.026292	9.58	237.92	297.43	1.31
Trib A	1	0.281	PF 1	1423	2247	2249.03	2249.03	2249.45	0.023631	5.67	312.64	381.09	1.11

TABLE 2		HEC-RAS Plan: Plan Final Profile: PF 1												
River	Reach	River Sta	Profile	W.S. El	Prof Delta	E.G. Elev	Top Wdth	Q Left	Q Channel	Q Right	Enc Sta L	Ch Sta L	Ch Sta R	Enc Sta R
				(ft)	(ft)	(ft)	(ft)	(cfs)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)
Trib A2	1	0.673	PF 1	2599.1		2599.51	37.89	10.13	132.82	0.05		9993	10017	
Trib A2	1	0.561	PF 1	2585		2585.46	36.5	1.83	140.16	1.02		9988	10015	
Trib A2	1	0.466	PF 1	2571.9		2572.28	41.72		143			9962	10009	
Trib A2	1	0.392	PF 1	2562.4		2562.74	98.51	1.81	183.01	29.18		9975	10025	
Trib A2	1	0.337	PF 1	2554.8		2555.13	72.68	0.35	211.13	2.52		9957	10016	
Trib A2	1	0.291	PF 1	2549		2549.42	54.43	5.71	207.39	0.9		9988	10029	
Trib A2	1	0.232	PF 1	2540.8		2541.12	103.74	130.93	79.44	3.64		9989	10007	
Trib A2	1	0.143	PF 1	2528.2		2528.49	139.64	67.94	216.1	0.96		9977	10016	
Trib A2	1	0.061	PF 1	2516.8		2517.14	137.52	2.19	237.47	45.34		9962	10015	
Trib A1	1	0.999	PF 1	2491.5		2492.17	27.33	3.05	175.95	3		9993	10012	
Trib A1	1	0.956	PF 1	2483.6		2484.31	24.68	2.07	177.63	2.3		9992	10010	
Trib A1	1	0.904	PF 1	2476.3		2477.1	24.14	19.22	144.81	17.97		9996	10004	
Trib A1	1	0.814	PF 1	2463.7		2464.41	25.66	8.26	164.62	9.12		9992	10006	
Trib A1	1	0.743	PF 1	2451.5		2451.96	49.09	55.24	120.56	6.2		9997	10012	
Trib A1	1	0.696	PF 1	2444.7		2444.98	83.14	6.29	175.24	0.47		9965	10028	
Trib A1	1	0.637	PF 1	2434.9		2435.32	48.36	1.26	178.93	1.81		9985	10025	
Trib A1	1	0.581	PF 1	2424.8		2425.22	72.62	0.24	271.07	1.7		9960	10026	
Trib A1	1	0.529	PF 1	2415.3		2415.81	70.5	6.35	248.23	18.42		9967	10006	
Trib A1	1	0.469	PF 1	2404.3		2404.52	159.39	96.04	176.55	0.4		9960	10015	
Trib A1	1	0.4	PF 1	2389.9		2391.23	37.14	59.24	198.61	15.16		9997	10007	
Trib A1	1	0.34	PF 1	2378.1		2378.3	207.79	66.93	158.6	47.47		9977	10012	
Trib A1	1	0.267	PF 1	2362.6		2362.75	226.62	120.23	152.29	0.48		10135	10203	
Trib A1	1	0.186	PF 1	2345.7		2346.03	159.46	0.78	315.92	47.3		9948	10056	
Trib A1	1	0.094	PF 1	2324.5		2324.8	213.54	189.56	174.37	0.07		9977	10034	
Trib A	3	3.05	PF 1	2717		2717.33	185.1	70.58	262.66	52.76		9989	10030	
Trib A	3	2.975	PF 1	2705.9		2706.32	162.87	100.52	187.72	97.76		9992.85	10011.95	
Trib A	3	2.903	PF 1	2695.1		2695.45	165.96	32.45	317.69	35.86		9997	10051	
Trib A	3	2.862	PF 1	2689.1		2689.57	108.24	13.2	315.58	57.21		9982	10030	
Trib A	3	2.79	PF 1	2679.8		2680.32	92.33	2.87	338.1	45.03		9985	10033	
Trib A	3	2.672	PF 1	2663.3		2663.64	167.89	3.62	203.51	178.87		9993.71	10027.9	
Trib A	3	2.583	PF 1	2650.9		2651.05	208.46	58.09	327.26	0.65		9902	10025	
Trib A	3	2.532	PF 1	2645.1		2645.43	221.37	157.93	418.37	1.7		9954	10055	
Trib A	3	2.461	PF 1	2635.7		2636.27	124.82	183.31	364.71	29.98		9980	10015	
Trib A	3	2.376	PF 1	2625.9		2626.69	75.57	23.94	481.44	72.62		9992	10026	
Trib A	3	2.27	PF 1	2611.7		2612.22	106.96	0.04	404.38	173.57		9989	10043	
Trib A	3	2.153	PF 1	2595.4		2595.98	130.95	33.1	531.91	12.99		9974	10034	
Trib A	3	2.035	PF 1	2578.9		2579.45	155.95	3.5	758.29	9.21		9929	10069	

TABLE 2		HEC-RAS Plan: Plan Final Profile: PF 1												
River	Reach	River Sta	Profile	W.S. Ele	Prof Delta	E.G. Elev	Top Wdth	Q Left	Q Channel	Q Right	Enc Sta L	Ch Sta L	Ch Sta R	Enc Sta R
				(ft)	(ft)	(ft)	(ft)	(cfs)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)
Trib A	3	1.924	PF 1	2563.4		2563.99	160.7	40.84	587.17	142.99		9968	10030	
Trib A	3	1.823	PF 1	2548.7		2549.22	180.68	11.49	563.81	195.69		9972	10044	
Trib A	3	1.732	PF 1	2533.9		2534.36	154.71	163.9	601.04	6.06		9948	10023	
Trib A	3	1.648	PF 1	2519.3		2519.83	157.06	53.72	699.48	17.8		9976	10064	
Trib A	2	1.593	PF 1	2508.4		2508.82	314.97	6.56	893.07	130.36		9956	10110	
Trib A	2	1.505	PF 1	2494.7		2495.34	175.38	101.85	897.27	30.88		9957	10054	
Trib A	2	1.443	PF 1	2485.1		2485.6	234.87	12.15	799.73	218.12		9986	10070	
Trib A	2	1.379	PF 1	2475.2		2475.71	230.47	2.48	1004.11	23.41		9923	10049	
Trib A	2	1.306	PF 1	2462.7		2463.27	176.56	1.42	1003.9	24.67		9914	10024	
Trib A	2	1.248	PF 1	2453.2		2453.85	182.5	351.79	714.86	13.34		9970	10019	
Trib A	2	1.165	PF 1	2437.9		2438.46	176.18	2.84	1069.96	7.2		9901	10048	
Trib A	2	1.086	PF 1	2425.1		2425.77	158.52	7.48	977.02	95.5		9958	10048	
Trib A	2	1.021	PF 1	2413.1		2413.74	187.11	4.28	670.94	404.78		9990	10042	
Trib A	2	0.951	PF 1	2399.7		2400.31	198.98	168.43	864.54	47.03		9987	10091	
Trib A	2	0.859	PF 1	2381.5		2382.12	199.49	0.16	1003.41	76.44		9955	10074	
Trib A	2	0.778	PF 1	2363.9		2364.28	433.61	0.02	814.42	318.56		9973	10058	
Trib A	2	0.678	PF 1	2343.2		2343.72	268.55	58.57	922.69	151.74		9967	10057	
Trib A	2	0.584	PF 1	2321.9		2322.31	403.57	345.39	764.54	23.07		9920	10018	
Trib A	1	0.499	PF 1	2303.9		2304.64	170.54	6.95	1389.37	26.68		9951	10068	
Trib A	1	0.416	PF 1	2284.9		2285.29	450.76	658.91	756.51	7.59		9948	10032	
Trib A	1	0.33	PF 1	2263.9		2265.07	297.43	0.64	1106.42	315.93		9966	10036	
Trib A	1	0.281	PF 1	2249		2249.45	381.09	2.98	1098.39	321.63		9431	10031	

TABLE 1		HEC-RAS Plan: Plan Final Profile: PF 1											
River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Trib B2	1	1.036	PF 1	163	2744.3	2745.85	2745.81	2746.32	0.017767	5.87	35.76	38.01	0.91
Trib B2	1	0.971	PF 1	163	2737	2738.35	2738.35	2738.69	0.027797	4.71	34.7	53.59	1.02
Trib B2	1	0.919	PF 1	163	2729.4	2730.71	2730.71	2731.2	0.022727	5.61	30.01	33.94	0.99
Trib B2	1	0.841	PF 1	163	2718.9	2720.21	2720.21	2720.59	0.025683	4.97	32.94	45.65	1
Trib B2	1	0.757	PF 1	163	2708	2708.75	2708.75	2709.11	0.025548	4.86	34.94	51.82	0.99
Trib B2	1	0.672	PF 1	163	2695.51	2696.73	2696.73	2697.16	0.022824	5.31	32.43	43.04	0.97
Trib B2	1	0.618	PF 1	245	2687.5	2689.1	2689.1	2689.69	0.021335	6.15	41.27	39.69	0.98
Trib B2	1	0.594	PF 1	245	2684.1	2685.82	2685.82	2686.45	0.017635	7.01	49.56	90.46	0.95
Trib B2	1	0.56	PF 1	245	2678.7	2681.16	2681.16	2681.75	0.023662	6.13	39.95	35.46	1.02
Trib B2	1	0.532	PF 1	245	2676	2677.29	2677.29	2677.74	0.023975	5.39	46.02	55.73	1
Trib B2	1	0.49	PF 1	245	2669.2	2670.72	2670.72	2671.23	0.022994	5.77	43.01	44.06	1
Trib B2	1	0.434	PF 1	245	2661.5	2663.49	2663.49	2663.94	0.017513	5.79	58.01	76.56	0.9
Trib B2	1	0.344	PF 1	245	2648.3	2650.37	2650.37	2650.58	0.00904	5.08	134.41	284.44	0.68
Trib B2	1	0.284	PF 1	245	2639.8	2640.48	2640.48	2640.72	0.038422	4.79	76.56	256.63	1.16
Trib B2	1	0.236	PF 1	326	2630	2631.47	2631.47	2631.88	0.020206	5.48	80.36	127.9	0.94
Trib B2	1	0.179	PF 1	326	2620.3	2621.57	2621.57	2621.93	0.024812	5.75	89.51	139.21	1.03
Trib B2	1	0.121	PF 1	326	2611.1	2612.04	2611.97	2612.23	0.023264	4.92	126.55	227.2	0.96
Trib B1	1	1.446	PF 1	294	2596	2598.35	2598.35	2599.16	0.020723	7.24	40.96	26.39	1
Trib B1	1	1.423	PF 1	294	2592	2593.84	2593.84	2594.54	0.018294	6.95	48.91	38.97	0.96
Trib B1	1	1.405	PF 1	294	2588.6	2591.42	2591.42	2592.3	0.018904	7.56	40.37	26.58	0.98
Trib B1	1	1.382	PF 1	294	2583.3	2585.53	2585.53	2586.31	0.019252	7.14	42.9	31.06	0.98
Trib B1	1	1.37	PF 1	294	2581	2583.42	2583.42	2584.12	0.020263	6.71	44.72	35.41	0.98
Trib B1	1	1.327	PF 1	294	2572	2574.03	2574.03	2574.88	0.017884	7.54	43.55	29.52	0.97
Trib B1	1	1.28	PF 1	294	2562	2564.22	2564.22	2564.91	0.017408	6.82	50.22	41.7	0.93
Trib B1	1	1.234	PF 1	441	2552	2554.23	2554.23	2555.19	0.017354	8.08	62.86	37.15	0.97
Trib B1	1	1.156	PF 1	441	2538	2541.48	2541.48	2542.29	0.013617	8.63	87.79	54.05	0.9
Trib B1	1	1.109	PF 1	441	2531.2	2533.61	2533.61	2534.45	0.018788	8.37	79.36	57.26	1.01
Trib B1	1	1.06	PF 1	441	2521	2524.13	2524.13	2525.43	0.012736	9.24	51.53	23.17	0.97
Trib B1	1	1.032	PF 1	441	2518	2520.25	2520.25	2520.7	0.01854	5.37	83.01	136.21	1
Trib B1	1	1.013	PF 1	441	2514	2516.89	2516.89	2517.52	0.013053	6.75	86.18	108.71	0.92
Trib B1	1	0.985	PF 1	588	2511	2513.29	2513.29	2514.01	0.01384	6.9	95.63	81.01	0.95
Trib B1	1	0.921	PF 1	588	2502	2504.84	2504.84	2505.51	0.007707	7.37	145.56	120.05	0.78
Trib B1	1	0.854	PF 1	588	2493	2495.53	2495.53	2496.27	0.012238	7.45	114.79	96.88	0.93
Trib B1	1	0.807	PF 1	588	2487.2	2489.18	2489.18	2489.75	0.01988	7.9	137.55	123.37	1.13

TABLE 1		HEC-RAS Plan: Plan Final Profile: PF 1											
River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Trib B1	1	0.763	PF 1	588	2482	2482.81	2482.81	2483.21	0.019154	5.11	117.75	152.32	1
Trib B1	1	0.697	PF 1	588	2470.6	2472.21	2472.21	2472.61	0.012943	5.27	144.34	228.1	0.87
Trib B1	1	0.622	PF 1	588	2458	2459.96	2459.96	2460.43	0.016445	6.28	143.75	158.7	0.99
Trib B1	1	0.542	PF 1	588	2444.3	2446.47	2446.47	2447.03	0.012116	6.16	119.25	150.24	0.88
Trib B1	1	0.478	PF 1	647	2435	2436.42	2436.42	2436.8	0.019585	6.28	186.71	239.07	1.06
Trib B1	1	0.408	PF 1	647	2422	2423.47	2423.47	2423.86	0.026852	5.41	140.86	195.82	1.15
Trib B1	1	0.341	PF 1	647	2410	2411.76	2411.76	2412.14	0.015555	6.54	202.64	240.08	0.98
Trib B1	1	0.26	PF 1	647	2394	2396.35	2396.35	2396.79	0.0095	6.44	208.01	225.62	0.81
Trib B1	1	0.188	PF 1	705	2380	2381.29	2381.29	2381.82	0.015547	5.94	134.01	157.16	0.96
Trib B1	1	0.108	PF 1	705	2364.8	2366.18	2366.18	2366.57	0.017243	6.45	210.54	292.46	1.02
Trib B	3	3.59	PF 1	257	2815	2815.76	2815.76	2816	0.026611	4.29	81.51	225.48	0.98
Trib B	3	3.502	PF 1	257	2802.3	2803.74	2803.74	2804.06	0.017822	4.75	71.73	157.17	0.86
Trib B	3	3.437	PF 1	257	2794	2795.42	2795.42	2795.83	0.02355	5.21	52.22	71.68	0.98
Trib B	3	3.365	PF 1	257	2785.5	2786.39	2786.36	2786.63	0.022758	4.11	73.06	135.93	0.91
Trib B	3	3.319	PF 1	257	2779.3	2780.1	2779.99	2780.35	0.02921	4.29	77.37	252.75	1.01
Trib B	3	3.268	PF 1	257	2772	2772.79	2772.79	2773.14	0.024026	4.84	57.78	88.77	0.97
Trib B	3	3.242	PF 1	257	2768	2768.79	2768.73	2769.09	0.019382	4.38	60.45	84.02	0.87
Trib B	3	3.2	PF 1	257	2762	2762.9	2762.9	2763.22	0.038306	5.49	67.7	113.15	1.19
Trib B	3	3.175	PF 1	257	2758	2758.91	2758.85	2759.23	0.019109	4.54	58.34	78.65	0.88
Trib B	3	3.131	PF 1	257	2752.8	2753.96	2753.96	2754.39	0.022444	5.26	51.75	69.39	0.97
Trib B	3	3.079	PF 1	386	2744.9	2746.24	2746.24	2746.61	0.018177	5.35	99.31	139.54	0.9
Trib B	3	3.038	PF 1	386	2738	2739.25	2739.25	2739.73	0.023425	6.07	82.9	92.8	1.02
Trib B	3	3.003	PF 1	386	2733.4	2734.28	2734.28	2734.6	0.023323	4.69	97.42	168.29	0.95
Trib B	3	2.967	PF 1	386	2728	2729.2	2729.2	2729.64	0.02141	5.48	81.09	101.48	0.96
Trib B	3	2.899	PF 1	386	2718	2719.49	2719.49	2719.93	0.017087	5.75	94.33	120.81	0.89
Trib B	3	2.869	PF 1	386	2713.7	2714.9	2714.9	2715.24	0.019908	5.24	106.75	162.67	0.92
Trib B	3	2.838	PF 1	386	2708.8	2710.15	2710.15	2710.64	0.023344	5.65	69.28	76.41	1
Trib B	3	2.783	PF 1	386	2700.1	2702.42	2702.42	2702.9	0.011439	6.36	105.06	111.8	0.79
Trib B	3	2.726	PF 1	386	2692	2693.57	2693.57	2694.13	0.017912	6.51	81	83	0.94
Trib B	3	2.666	PF 1	386	2682.1	2684.37	2684.37	2684.96	0.015748	6.4	74.78	77.05	0.89
Trib B	3	2.639	PF 1	386	2679.9	2681.37	2681.37	2681.82	0.024025	5.39	73.26	90.03	1
Trib B	3	2.606	PF 1	386	2675.3	2676.57	2676.57	2676.94	0.022151	5.39	99.15	141	0.97
Trib B	3	2.577	PF 1	386	2670	2671.05	2671.05	2671.55	0.02324	5.64	69.82	75.38	1
Trib B	3	2.536	PF 1	514	2664	2665.32	2665.32	2665.71	0.02498	5.48	120.91	160.75	1.02

TABLE 1		HEC-RAS Plan: Plan Final Profile: PF 1											
River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Trib B	3	2.47	PF 1	514	2654	2655.29	2655.29	2655.78	0.027132	6.37	108.78	118.22	1.09
Trib B	3	2.408	PF 1	514	2643.7	2644.8	2644.8	2645.19	0.021616	5.24	118.22	160.75	0.95
Trib B	3	2.371	PF 1	514	2638.2	2639.25	2639.25	2639.63	0.022628	5.03	111.36	167.2	0.96
Trib B	3	2.318	PF 1	514	2630	2632.08	2632.08	2632.59	0.013321	6.23	123.22	142.13	0.83
Trib B	3	2.272	PF 1	514	2624	2625.2	2625.2	2625.65	0.021876	5.42	99.47	137.98	0.96
Trib B	3	2.192	PF 1	514	2612	2612.67	2612.66	2612.92	0.024451	4.32	147.36	266.68	0.95
Trib B	2	2.063	PF 1	749	2588.5	2590.01	2589.94	2590.76	0.040324	7.16	136.75	334.28	1.3
Trib B	2	1.977	PF 1	749	2573.9	2574.87	2574.87	2575.28	0.029196	5.51	167.72	257.6	1.08
Trib B	2	1.918	PF 1	749	2562.4	2564.45	2564.45	2564.95	0.013962	6.05	173.45	275.2	0.84
Trib B	2	1.849	PF 1	749	2550	2552.35	2552.35	2552.65	0.015578	5.29	255.2	409.81	0.84
Trib B	2	1.784	PF 1	749	2538	2540.37	2540.37	2540.76	0.012995	6.02	226.5	276.42	0.81
Trib B	2	1.724	PF 1	842	2528.3	2529.64	2529.64	2530.1	0.019226	5.74	181.87	224.78	0.93
Trib B	2	1.653	PF 1	842	2515.3	2516.92	2516.92	2517.5	0.022216	6.87	169.94	156.96	1.03
Trib B	2	1.59	PF 1	842	2504	2505.4	2505.4	2505.96	0.022037	6	144.48	137.64	0.99
Trib B	2	1.533	PF 1	842	2492.7	2495.04	2495.04	2495.46	0.01591	6.74	241.81	252.46	0.9
Trib B	2	1.49	PF 1	842	2485.5	2487.04	2487.04	2487.46	0.026857	8.46	225.02	238.12	1.29
Trib B	2	1.394	PF 1	842	2467.2	2468.75	2468.75	2469.22	0.016673	6.48	207.62	217.27	1.01
Trib B	2	1.329	PF 1	842	2455.9	2457.5	2457.5	2458.02	0.01495	6.13	177.73	181.63	0.95
Trib B	2	1.276	PF 1	842	2446	2447.19	2447.19	2447.72	0.01564	5.93	156.47	163.71	0.96
Trib B	2	1.192	PF 1	935	2430	2432.54	2432.54	2433.14	0.011413	6.59	200.79	203.3	0.88
Trib B	2	1.129	PF 1	935	2418	2420.49	2420.49	2420.91	0.017843	7.28	274.54	300.6	1.06
Trib B	2	1.06	PF 1	935	2404	2406.29	2406.29	2406.83	0.013889	7.39	237.05	204.45	0.97
Trib B	2	1.01	PF 1	935	2394	2395.94	2395.94	2396.96	0.02726	9.79	171.92	270.74	1.34
Trib B	2	0.936	PF 1	935	2379.7	2380.98	2380.98	2381.4	0.017543	5.88	231.15	278.55	1
Trib B	2	0.845	PF 1	935	2360.3	2362.55	2362.55	2362.99	0.00891	6.28	291.21	318.52	0.79
Trib B	1	0.751	PF 1	1641	2341.7	2344.2	2344.2	2345.04	0.011655	7.54	259.87	191.54	0.91
Trib B	1	0.688	PF 1	1641	2330	2332.2	2332.2	2332.89	0.015618	6.65	249.55	217.7	0.99
Trib B	1	0.611	PF 1	1641	2312.9	2315.17	2315.17	2315.84	0.014259	7.65	348.37	289.03	0.99
Trib B	1	0.531	PF 1	1681	2296	2298.14	2298.14	2298.71	0.012885	6.43	344.88	441.59	0.91
Trib B	1	0.46	PF 1	1681	2280.1	2281.7	2281.7	2282.17	0.019605	6.78	429.9	487.27	1.08
Trib B	1	0.377	PF 1	1681	2261.2	2262.69	2262.69	2263.16	0.015672	5.85	374.86	441.73	0.96

TABLE 2		HEC-RAS Plan: Plan Final Profile: PF 1												
River	Reach	River Sta	Profile	W.S. Ele	Prof Delta	E.G. Elev	Top Wdth	Q Left	Q Channel	Q Right	Enc Sta L	Ch Sta L	Ch Sta R	Enc Sta R
				(ft)	(ft)	(ft)	(ft)	(cfs)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)
Trib B2	1	1.036	PF 1	2745.9		2746.32	38.01	9.73	140.86	12.41		9989.1	10007.6	
Trib B2	1	0.971	PF 1	2738.4		2738.69	53.59	0.06	162.93	0.01		9969.6	10021.5	
Trib B2	1	0.919	PF 1	2730.7		2731.2	33.94	0.67	161.65	0.68		9985.7	10014.3	
Trib B2	1	0.841	PF 1	2720.2		2720.59	45.65	0.06	162.93	0.01		9980.7	10023.6	
Trib B2	1	0.757	PF 1	2708.8		2709.11	51.82	0.17	160.52	2.31		9981.9	10026.4	
Trib B2	1	0.672	PF 1	2696.7		2697.16	43.04	0.77	160.64	1.58		9983.2	10015.9	
Trib B2	1	0.618	PF 1	2689.1		2689.69	39.69	1.42	242.97	0.61		9984.6	10017.2	
Trib B2	1	0.594	PF 1	2685.8		2686.45	43.68	19.74	196.86	28.4		9993.7	10010.3	
Trib B2	1	0.56	PF 1	2681.2		2681.75	35.46		245			9987.2	10023.3	
Trib B2	1	0.532	PF 1	2677.3		2677.74	55.73	0.12	244.51	0.37		9983.1	10033	
Trib B2	1	0.49	PF 1	2670.7		2671.23	44.06	0.14	244.37	0.49		9989.1	10029.9	
Trib B2	1	0.434	PF 1	2663.5		2663.94	76.56	32.25	211.26	1.5		9991.1	10019.4	
Trib B2	1	0.344	PF 1	2650.4		2650.58	255.43	100.96	120.2	23.84		9992.5	10006.1	
Trib B2	1	0.284	PF 1	2640.5		2640.72	162.93	73.46	137.92	33.62		9988.8	10042.8	
Trib B2	1	0.236	PF 1	2631.5		2631.88	127.9	42.77	282.66	0.57		9976.1	10024.8	
Trib B2	1	0.179	PF 1	2621.6		2621.93	139.21	1.48	212.06	112.46		9823	9860.8	
Trib B2	1	0.121	PF 1	2612		2612.23	227.2	13.74	131.98	180.28		9932.3	9965.4	
Trib B1	1	1.446	PF 1	2598.4		2599.16	26.39		293.46	0.54		9975.4	10004.9	
Trib B1	1	1.423	PF 1	2593.8		2594.54	38.97	4.59	275.96	13.46		9993.3	10017.6	
Trib B1	1	1.405	PF 1	2591.4		2592.3	26.58	1.17	291.74	1.09		9986.3	10007.2	
Trib B1	1	1.382	PF 1	2585.5		2586.31	31.06	1.39	291.18	1.43		9981.6	10006.3	
Trib B1	1	1.37	PF 1	2583.4		2584.12	35.41	0.51	292.93	0.56		9978.8	10009	
Trib B1	1	1.327	PF 1	2574		2574.88	29.52	8.26	282.6	3.14		9992	10011.8	
Trib B1	1	1.28	PF 1	2564.2		2564.91	41.7	6.4	277.14	10.46		9994.7	10019.3	
Trib B1	1	1.234	PF 1	2554.2		2555.19	37.15	5.52	413.41	22.07		9988.6	10012.6	
Trib B1	1	1.156	PF 1	2541.5		2542.29	54.05	46.54	298.37	96.09		9992.8	10004.8	
Trib B1	1	1.109	PF 1	2533.6		2534.45	57.26	106.14	331.11	3.75		9986.4	10005.1	
Trib B1	1	1.06	PF 1	2524.1		2525.43	23.17	1.68	433.18	6.15		9996.7	10013.4	
Trib B1	1	1.032	PF 1	2520.3		2520.7	92.81		438.6	2.4		9886.4	10015	
Trib B1	1	1.013	PF 1	2516.9		2517.52	75.69		391.33	49.67		9947.7	10024.4	
Trib B1	1	0.985	PF 1	2513.3		2514.01	81.01	7.52	570.79	9.7		9959.2	10009.9	
Trib B1	1	0.921	PF 1	2504.8		2505.51	120.05	69.75	458.05	60.19		9988.2	10010.4	
Trib B1	1	0.854	PF 1	2495.5		2496.27	96.88	54.3	498.03	35.67		9974.1	10007.4	
Trib B1	1	0.807	PF 1	2489.2		2489.75	123.37	10.78	308.56	268.65		9992.8	10018.5	
Trib B1	1	0.763	PF 1	2482.8		2483.21	152.32	1	583.7	3.3		9873.2	10014.2	
Trib B1	1	0.697	PF 1	2472.2		2472.61	228.1	33.37	547.44	7.19		9923	10014.1	
Trib B1	1	0.622	PF 1	2460		2460.43	158.7	150.75	434.16	3.09		9952.6	10008.4	

TABLE 2		HEC-RAS Plan: Plan Final Profile: PF 1												
River	Reach	River Sta	Profile	W.S. Ele	Prof Delta	E.G. Elev	Top Wdth	Q Left	Q Channel	Q Right	Enc Sta L	Ch Sta L	Ch Sta R	Enc Sta R
				(ft)	(ft)	(ft)	(ft)	(cfs)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)
Trib B1	1	0.542	PF 1	2446.5		2447.03	150.24	26.01	559.03	2.97		9964.3	10024	
Trib B1	1	0.478	PF 1	2436.4		2436.8	239.07	278.96	366.38	1.66		9977.8	10031.5	
Trib B1	1	0.408	PF 1	2423.5		2423.86	195.82	1.31	517.18	128.51		9828	9967.4	
Trib B1	1	0.341	PF 1	2411.8		2412.14	240.08	304.16	340.35	2.49		9977.6	10015.4	
Trib B1	1	0.26	PF 1	2396.4		2396.79	225.62	77.47	421.16	148.37		9987.7	10021.3	
Trib B1	1	0.188	PF 1	2381.3		2381.82	157.16	21.92	682.81	0.27		9980.4	10077.2	
Trib B1	1	0.108	PF 1	2366.2		2366.57	292.46	246.73	392.19	66.07		9972.3	10021.1	
Trib B	3	3.59	PF 1	2815.8		2816	192.7	0.09	208.08	48.84		9973.3	10054.6	
Trib B	3	3.502	PF 1	2803.7		2804.06	157.17	6.95	233.27	16.78		9977	10029.2	
Trib B	3	3.437	PF 1	2795.4		2795.83	71.68	3.36	252.82	0.82		9984.2	10039.7	
Trib B	3	3.365	PF 1	2786.4		2786.63	135.93	18.58	231.64	6.78		9956.5	10046.2	
Trib B	3	3.319	PF 1	2780.1		2780.35	195.81	0.63	221.6	34.77		9987.9	10080.9	
Trib B	3	3.268	PF 1	2772.8		2773.14	88.77	2.3	248.27	6.43		9972.3	10038.9	
Trib B	3	3.242	PF 1	2768.8		2769.09	84.02	2.25	254.51	0.23		9951.5	10026	
Trib B	3	3.2	PF 1	2762.9		2763.22	113.15	106.92	149.76	0.31		10044.1	10085.7	
Trib B	3	3.175	PF 1	2758.9		2759.23	78.65	0.94	254.78	1.28		9956.2	10023.6	
Trib B	3	3.131	PF 1	2754		2754.39	69.39	2.53	253.21	1.26		9983.2	10035.6	
Trib B	3	3.079	PF 1	2746.2		2746.61	139.54	0.93	324.93	60.13		9967.9	10022.9	
Trib B	3	3.038	PF 1	2739.3		2739.73	92.8	7.41	307.08	71.51		9991	10036.8	
Trib B	3	3.003	PF 1	2734.3		2734.6	168.29	19.07	354.67	12.26		9920.4	10021.2	
Trib B	3	2.967	PF 1	2729.2		2729.64	101.48	2.71	361.46	21.83		9986.1	10051.2	
Trib B	3	2.899	PF 1	2719.5		2719.93	120.81	60.62	325.12	0.26		9968	10011.7	
Trib B	3	2.869	PF 1	2714.9		2715.24	162.67	48.27	303.94	33.8		9991	10049.1	
Trib B	3	2.838	PF 1	2710.2		2710.64	76.41	0.05	384.99	0.96		9950.8	10019.3	
Trib B	3	2.783	PF 1	2702.4		2702.9	111.8	63.72	287.18	35.1		9991.6	10013.8	
Trib B	3	2.726	PF 1	2693.6		2694.13	83	46.98	326.21	12.82		9982.9	10016.3	
Trib B	3	2.666	PF 1	2684.4		2684.96	77.05	19.36	356.65	9.99		9982.7	10017.2	
Trib B	3	2.639	PF 1	2681.4		2681.82	90.03	1.4	383.97	0.63		9938.8	10017.3	
Trib B	3	2.606	PF 1	2676.6		2676.94	141	3.6	302.25	80.15		9969.8	10028	
Trib B	3	2.577	PF 1	2671.1		2671.55	75.38	1.2	383.91	0.89		9948.1	10016.5	
Trib B	3	2.536	PF 1	2665.3		2665.71	160.75	1.67	411.76	100.57		9988.5	10071.7	
Trib B	3	2.47	PF 1	2655.3		2655.78	118.22	5.5	367.35	141.15		9980.4	10034.7	
Trib B	3	2.408	PF 1	2644.8		2645.19	160.75	2.6	462.95	48.45		9968.6	10062.5	
Trib B	3	2.371	PF 1	2639.3		2639.63	167.2	10.93	499.23	3.84		9937	10053.2	
Trib B	3	2.318	PF 1	2632.1		2632.59	142.13	18.63	434.21	61.16		9978.8	10018.6	
Trib B	3	2.272	PF 1	2625.2		2625.65	137.98	1.29	509.41	3.31		9976.3	10072.3	
Trib B	3	2.192	PF 1	2612.7		2612.92	266.68	0.07	429.58	84.36		9944.5	10099.7	

TABLE 2		HEC-RAS Plan: Plan Final Profile: PF 1												
River	Reach	River Sta	Profile	W.S. El	Prof Delta	E.G. Elev	Top Wdth	Q Left	Q Channel	Q Right	Enc Sta L	Ch Sta L	Ch Sta R	Enc Sta R
				(ft)	(ft)	(ft)	(ft)	(cfs)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)
Trib B	2	2.063	PF 1	2590		2590.76	334.28	40	701.57	7.43		9955.3	10059.4	
Trib B	2	1.977	PF 1	2574.9		2575.28	257.6	116.19	632.33	0.48		9908.2	10050	
Trib B	2	1.918	PF 1	2564.5		2564.95	200.45	69.96	654.23	24.81		9960.2	10027.1	
Trib B	2	1.849	PF 1	2552.4		2552.65	409.81	188.16	496.57	64.27		9952.7	10029.5	
Trib B	2	1.784	PF 1	2540.4		2540.76	276.42	26.08	503.24	219.69		9980.7	10029.9	
Trib B	2	1.724	PF 1	2529.6		2530.1	224.78	84.85	749.46	7.69		9925.5	10036.4	
Trib B	2	1.653	PF 1	2516.9		2517.5	156.96	7.27	629.57	205.16		9983	10049.3	
Trib B	2	1.59	PF 1	2505.4		2505.96	137.64	0.74	833.85	7.42		9925.4	10047.6	
Trib B	2	1.533	PF 1	2495		2495.46	252.46	107.99	466.64	267.37		9986.9	10027	
Trib B	2	1.49	PF 1	2487		2487.46	238.12	45.95	247.94	548.12		9987.7	10009.5	
Trib B	2	1.394	PF 1	2468.8		2469.22	217.27	66.16	583.06	192.78		9966	10036	
Trib B	2	1.329	PF 1	2457.5		2458.02	181.63	0.74	736.7	104.57		9960.8	10054.5	
Trib B	2	1.276	PF 1	2447.2		2447.72	163.71	0.16	817.08	24.76		9920.9	10037.5	
Trib B	2	1.192	PF 1	2432.5		2433.14	203.3	116.16	817.23	1.61		9936.4	10006.8	
Trib B	2	1.129	PF 1	2420.5		2420.91	300.6	95.57	422.09	417.34		9981.9	10021.5	
Trib B	2	1.06	PF 1	2406.3		2406.83	204.45	5.1	559.53	370.38		9988.1	10030.2	
Trib B	2	1.01	PF 1	2395.9		2396.96	171.72	1.72	608.3	324.98		9990.3	10027.7	
Trib B	2	0.936	PF 1	2381		2381.4	278.55	5.57	714.62	214.81		9932.3	10046.1	
Trib B	2	0.845	PF 1	2362.6		2362.99	318.52	269.41	660.52	5.07		9977.8	10031.4	
Trib B	1	0.751	PF 1	2344.2		2345.04	191.54	33.12	1564.43	43.45		9947.2	10045.6	
Trib B	1	0.688	PF 1	2332.2		2332.89	217.7	1.11	1639.84	0.05		9835.5	10017.1	
Trib B	1	0.611	PF 1	2315.2		2315.84	264.01	137.64	1144.96	358.41		9964.1	10044.7	
Trib B	1	0.531	PF 1	2298.1		2298.71	328.92	3.31	1495.22	182.47		9997.2	10147.7	
Trib B	1	0.46	PF 1	2281.7		2282.17	487.27	173.27	1025.48	482.24		9955.6	10079.8	
Trib B	1	0.377	PF 1	2262.7		2263.16	441.73	215.1	1464.41	1.49		9817	10033.4	

TABLE 1		HEC-RAS Plan: Plan Final Profile: PF 1											
River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Trib C3	1	2.101	PF 1	273	3210	3211.23	3211.23	3211.65	0.017677	5.27	54.05	71.73	0.98
Trib C3	1	2.028	PF 1	273	3201.4	3202.65	3202.65	3203.07	0.01778	5.29	58.25	79.42	0.98
Trib C3	1	1.893	PF 1	273	3180	3182.15	3182.15	3182.74	0.017192	6.16	45.31	43.74	1
Trib C3	1	1.785	PF 1	409	3170	3170.69	3170.69	3171.03	0.020159	4.72	90.16	136.1	1
Trib C3	1	1.72	PF 1	409	3160	3161.03	3161.03	3161.49	0.017683	5.54	79.95	93.79	0.99
Trib C3	1	1.607	PF 1	409	3140	3140.62	3140.62	3140.93	0.021027	4.49	93.19	153.9	1
Trib C3	1	1.528	PF 1	545	3130	3130.93	3130.93	3131.38	0.017987	5.39	106.52	128.84	0.99
Trib C3	1	1.421	PF 1	545	3110	3111.89	3111.89	3112.47	0.01379	6.58	114.69	115.07	0.94
Trib C3	1	1.306	PF 1	545	3095	3097.11	3097.11	3098.02	0.014641	7.78	75.17	43.11	1
Trib C3	1	1.214	PF 1	545	3080	3081.75	3081.75	3082.33	0.013811	6.91	132.34	136.35	0.95
Trib C3	1	1.096	PF 1	545	3064.6	3066.54	3066.54	3067.15	0.013247	7.08	129.73	125.08	0.94
Trib C3	1	1.015	PF 1	545	3056.2	3058.56	3058.56	3059.18	0.012395	7.86	138.49	109.78	0.95
Trib C3	1	0.957	PF 1	545	3044.7	3047.19	3047.19	3047.79	0.012295	7.46	145.79	137	0.93
Trib C3	1	0.89	PF 1	724	3030	3032.37	3032.37	3033.24	0.012674	7.66	111.71	78.33	0.95
Trib C3	1	0.695	PF 1	724	2994.3	2996.57	2996.57	2996.96	0.014685	6.31	229.63	278.11	0.95
Trib C3	1	0.584	PF 1	724	2975.7	2977.35	2977.35	2977.99	0.015641	6.88	135.13	114.52	1
Trib C3	1	0.553	PF 1	724	2970	2972.86	2972.86	2974.19	0.012617	9.4	85.2	35.89	0.98
Trib C3	1	0.535	PF 1	724	2965.8	2967.67	2967.67	2968.51	0.014597	7.44	106.8	69.07	0.99
Trib C3	1	0.497	PF 1	724	2957.8	2959.37	2959.37	2959.96	0.015782	6.4	136.19	125.73	0.98
Trib C3	1	0.408	PF 1	724	2938	2940.73	2940.73	2941.29	0.007366	6.6	202.4	224.16	0.74
Trib C3	1	0.348	PF 1	724	2925.6	2927.14	2927.14	2927.58	0.01302	5.55	176.12	254.4	0.88
Trib C3	1	0.267	PF 1	904	2908.8	2910.09	2910.09	2910.46	0.018851	5.86	261.78	340.65	1.03
Trib C3	1	0.197	PF 1	904	2893.7	2894.97	2894.97	2895.41	0.019591	6.02	223.98	276.63	1.05
Trib C3	1	0.133	PF 1	904	2879.4	2881.17	2881.17	2881.65	0.012487	6.28	236.95	257.3	0.9
Trib C2	1	1.011	PF 1	224	2935.8	2937.03	2937.03	2937.53	0.022462	5.72	41.18	44.62	0.99
Trib C2	1	0.971	PF 1	224	2926.9	2928.71	2928.71	2929.34	0.019463	6.94	42.9	36.31	0.98
Trib C2	1	0.95	PF 1	224	2923.9	2924.6	2924.6	2924.9	0.02711	4.39	52.3	89.43	0.99
Trib C2	1	0.866	PF 1	224	2908.7	2910.48	2910.48	2910.92	0.01671	6.48	60.58	65.06	0.91
Trib C2	1	0.834	PF 1	224	2902	2904.65	2904.65	2904.93	0.04961	6.22	63.55	111.34	1.35
Trib C2	1	0.763	PF 1	335	2890	2891.81	2891.81	2892.25	0.014439	5.84	88.8	116.21	0.84
Trib C2	1	0.705	PF 1	335	2880	2880.87	2880.87	2881.22	0.030607	5.38	85.91	149.5	1.09
Trib C2	1	0.639	PF 1	335	2867.9	2868.47	2868.47	2868.66	0.033131	3.51	96.36	260.16	1.01
Trib C2	1	0.601	PF 1	335	2859.6	2860.56	2860.56	2860.85	0.033451	5.83	100.02	162.88	1.15
Trib C2	1	0.528	PF 1	335	2845.9	2847.06	2847.06	2847.53	0.021323	5.55	66.33	79.65	0.96

TABLE 1		HEC-RAS Plan: Plan Final Profile: PF 1											
River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Trib C2	1	0.5	PF 1	335	2841.8	2842.7	2842.7	2842.94	0.031652	3.99	87.03	187.82	1.03
Trib C2	1	0.443	PF 1	447	2831	2831.93	2831.93	2832.29	0.024905	4.89	94.13	133.36	0.99
Trib C2	1	0.379	PF 1	447	2820	2821.08	2821.08	2821.57	0.022292	5.66	82.43	91.83	0.98
Trib C2	1	0.304	PF 1	447	2806	2807.46	2807.46	2808.13	0.020229	6.65	70.56	56.64	0.99
Trib C2	1	0.263	PF 1	447	2798.9	2800.77	2800.77	2801.29	0.016946	6.63	105.03	102.75	0.92
Trib C2	1	0.224	PF 1	447	2792	2793.58	2793.58	2793.98	0.015612	5.66	119.65	157.38	0.86
Trib C2	1	0.187	PF 1	447	2784.4	2786.55	2786.44	2786.84	0.059182		103	211.83	0
Trib C2	1	0.123	PF 1	447	2773.9	2775.29	2775.29	2775.86	0.020435	6.32	83.7	80.4	0.98
Trib C2	1	0.094	PF 1	447	2769	2770.56	2770.56	2771.2	0.020412	6.57	74.95	62.86	0.99
Trib C2	1	0.077	PF 1	447	2766	2767.42	2767.42	2768.01	0.019623	6.35	81.17	76.23	0.96
Trib C1	1	1.755	PF 1	270	2913.6	2914.52	2914.52	2914.76	0.022277	4.52	95.95	232.33	0.93
Trib C1	1	1.681	PF 1	270	2901.7	2902.61	2902.61	2902.87	0.023384	4.54	91.15	212.96	0.95
Trib C1	1	1.615	PF 1	270	2890	2890.66	2890.66	2890.96	0.026012	4.39	64.35	117.89	0.98
Trib C1	1	1.529	PF 1	270	2876	2877.37	2877.37	2877.72	0.027247	4.75	56.83	83.26	1.01
Trib C1	1	1.424	PF 1	270	2855.7	2856.79	2856.64	2856.96	0.033003	3.77	97.46	164.72	0.68
Trib C1	1	1.38	PF 1	404	2847.4	2849.08		2849.37	0.031652	4.96	103.96	90.42	0.71
Trib C1	1	1.365	PF 1	404	2844.6	2846.39	2846.27	2846.68	0.035407	5.3	111.73	117.11	0.75
Trib C1	1	1.332	PF 1	404	2840	2841.02	2840.78	2841.19	0.033394	3.91	130.99	149.48	0.68
Trib C1	1	1.293	PF 1	404	2832	2833.63		2834.05	0.039368	5.23	79.91	66.88	0.78
Trib C1	1	1.238	PF 1	404	2820	2821.63	2821.63	2822.05	0.043274	5.82	95.72	116.97	0.83
Trib C1	1	1.186	PF 1	404	2810.4	2812.77		2812.96	0.016269	4.48	162.32	198.99	0.54
Trib C1	1	1.126	PF 1	539	2800	2800.86	2800.8	2801.16	0.084893	5.15	125.84	267.52	1.04
Trib C1	1	1.085	PF 1	539	2792	2793.34	2792.98	2793.5	0.01986	3.29	176.76	188.39	0.54
Trib C1	1	1.057	PF 1	539	2786.5	2788.57	2788.57	2789.13	0.047461	6.64	104.98	95.96	0.89
Trib C1	1	1.014	PF 1	539	2778.6	2780.36	2779.99	2780.53	0.022215	4.29	178.38	170.37	0.6
Trib C1	1	0.997	PF 1	539	2775.7	2776.74	2776.74	2777.13	0.075089	5.44	114.39	147.6	1.01
Trib C1	1	0.977	PF 1	539	2770	2771.65	2771.37	2771.9	0.026807	4.29	146.2	193.89	0.65
Trib C1	1	0.93	PF 1	539	2761.9	2763.2	2763.07	2763.56	0.042847	5.11	121.05	132.17	0.8
Trib C1	1	0.874	PF 1	539	2749.7	2751.12	2750.95	2751.42	0.03912	5.15	134.98	128.82	0.78
Trib C1	1	0.81	PF 1	539	2736.8	2738.44		2738.81	0.03586	5.18	125.01	119.12	0.75
Trib C1	1	0.784	PF 1	539	2731.2	2732.77	2732.69	2733.17	0.047394	5.91	120.07	114.24	0.87
Trib C1	1	0.74	PF 1	539	2722	2723.79	2723.6	2724.14	0.032568	5.53	132.93	115	0.74
Trib C1	1	0.7	PF 1	539	2714	2715.67	2715.57	2716.14	0.048	6.39	110.02	93.62	0.89
Trib C1	1	0.646	PF 1	539	2702	2704.41	2704.19	2704.92	0.034195	6.13	103.87	71.32	0.77

TABLE 1		HEC-RAS Plan: Plan Final Profile: PF 1											
River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Trib C1	1	0.623	PF 1	539	2697.7	2699.41	2699.28	2699.88	0.054094	6.65	107.03	85.59	0.94
Trib C1	1	0.601	PF 1	539	2694	2696.38	2695.67	2696.68	0.015688	4.47	130.49	73.86	0.53
Trib C1	1	0.58	PF 1	539	2691	2693.18	2693.18	2693.85	0.048068	7.02	94.13	75.66	0.91
Trib C1	1	0.565	PF 1	539	2687.9	2689.49	2689.36	2690	0.044118	5.81	98.63	77.08	0.84
Trib C1	1	0.547	PF 1	539	2682.4	2685.16	2685.16	2685.86	0.04876	7.58	93.39	67.7	0.93
Trib C1	1	0.523	PF 1	539	2676.2	2679.19	2679.1	2679.82	0.036939	7.31	102.57	72.24	0.82
Trib C1	1	0.485	PF 1	563	2668.3	2670.91	2670.8	2671.61	0.046263	6.8	87.33	59.31	0.89
Trib C1	1	0.464	PF 1	563	2663.9	2665.97	2665.82	2666.64	0.04179	6.66	89.47	55.01	0.85
Trib C1	1	0.451	PF 1	563	2660	2662.53	2662.48	2663.42	0.051584	7.61	75.56	42.9	0.95
Trib C1	1	0.434	PF 1	563	2654.7	2657.97	2657.97	2659.1	0.046983	8.87	71.75	34.23	0.95
Trib C1	1	0.416	PF 1	563	2649	2652.18		2652.94	0.028919	7.14	86.25	40	0.74
Trib C1	1	0.402	PF 1	563	2646	2649.18	2649.18	2650.38	0.042364	9.33	72.95	33.86	0.93
Trib C1	1	0.392	PF 1	563	2643	2646.19		2646.94	0.026635	7.06	85.42	35.53	0.71
Trib C1	1	0.377	PF 1	563	2639	2642.48	2642.48	2643.86	0.057746	9.43	60.08	23.23	0.99
Trib C1	1	0.367	PF 1	563	2634.9	2638.68	2638.68	2639.99	0.047449	9.32	64.3	27.02	0.95
Trib C1	1	0.354	PF 1	563	2620.3	2624.65	2624.65	2626.28	0.044751	10.71	60.72	20.42	0.95
Trib C1	1	0.346	PF 1	563	2612.8	2616.82	2616.82	2618.31	0.044902	10.17	62.5	22.68	0.96
Trib C1	1	0.336	PF 1	563	2605	2609.94	2609.94	2611.15	0.042264	9.95	74.68	31	0.88
Trib C1	1	0.326	PF 1	563	2593	2595.73		2596.47	0.029265	7.09	85.94	35.75	0.76
Trib C1	1	0.312	PF 1	563	2589	2592.32	2592.32	2593.61	0.054772	9.11	62.61	26.05	0.99
Trib C1	1	0.283	PF 1	563	2579.5	2581.24	2581.24	2581.87	0.013929	6.78	109.01	140.89	0.95
Trib C1	1	0.262	PF 1	563	2573	2574.54	2574.54	2574.96	0.012558	5.74	151.21	190.11	0.88
Trib C1	1	0.206	PF 1	563	2558	2558.18	2558.18	2558.4	0.08735	3.92	148.6	526.76	1.65
Trib C	4	3.191	PF 1	180	2994.5	2995.6	2995.6	2995.97	0.021934	5.05	42.49	67.56	0.95
Trib C	4	3.12	PF 1	180	2982.9	2984.08	2984.08	2984.45	0.026535	4.87	36.97	52.07	1.01
Trib C	4	3.085	PF 1	180	2978	2978.83	2978.83	2979.22	0.025511	5.01	36.51	49.84	1
Trib C	4	3.05	PF 1	180	2972	2973.45	2973.45	2974.03	0.021195	6.13	30.59	29.89	0.98
Trib C	4	2.983	PF 1	180	2962	2963.19	2963.19	2963.72	0.022733	5.88	30.86	29.98	0.99
Trib C	4	2.955	PF 1	180	2958	2959.58	2959.58	2960.28	0.019641	6.81	28.6	23.14	0.97
Trib C	4	2.916	PF 1	269	2951.5	2953.08	2953.08	2953.58	0.023934	6.54	60.75	65.59	1.05
Trib C	4	2.844	PF 1	269	2940	2940.55	2940.55	2940.82	0.028693	4.11	65.95	128.26	1
Trib C	4	2.776	PF 1	269	2928	2928.82	2928.82	2929.11	0.027916	4.59	73.62	137.38	1.01
Trib C	4	2.721	PF 1	269	2917.8	2918.84	2918.84	2919.21	0.023543	4.96	59.02	90.08	0.97
Trib C	4	2.644	PF 1	269	2904	2904.78	2904.78	2904.99	0.023638	3.77	87.87	243.81	0.91

TABLE 1		HEC-RAS Plan: Plan Final Profile: PF 1											
River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Trib C	4	2.553	PF 1	359	2886.7	2887.85	2887.85	2888.24	0.025835	5.04	71.28	91.92	1.01
Trib C	4	2.51	PF 1	359	2880.1	2881.21	2881.21	2881.68	0.022201	5.69	72.11	84.34	0.98
Trib C	4	2.485	PF 1	359	2875.5	2876.56	2876.56	2876.98	0.027099	5.73	87.92	133.98	1.06
Trib C	3	2.344	PF 1	904	2850	2853.08	2853.08	2853.5	0.015709	7.06	287.61	312.45	0.91
Trib C	3	2.253	PF 1	904	2834.6	2836.6	2836.6	2837.14	0.019013	7.13	211.93	188.85	0.98
Trib C	3	2.226	PF 1	904	2829.4	2831.06	2831.06	2831.63	0.022669	7.58	198.87	216.27	1.06
Trib C	3	2.171	PF 1	904	2819	2820.55	2820.55	2821.02	0.031489	7.81	220.2	283.81	1.21
Trib C	3	2.128	PF 1	1083	2810.3	2812.64	2812.64	2813.05	0.01253	6.24	346.26	396.63	0.81
Trib C	3	2.065	PF 1	1083	2798	2800.56	2800.56	2801.01	0.015913	6.91	314.56	317.54	0.91
Trib C	3	2.022	PF 1	1083	2790	2791.66	2791.66	2792.15	0.026507	6.77	246.57	261.08	1.1
Trib C	3	1.944	PF 1	1083	2776	2778.09	2778.09	2778.71	0.015163	6.74	220.74	198.74	0.89
Trib C	3	1.867	PF 1	1083	2763	2765.69	2765.69	2766.59	0.016663	8.21	179.56	118.5	0.97
Trib C	2	1.795	PF 1	1432	2751.1	2753.59	2753.59	2754.56	0.01735	8.41	215.16	123.07	0.99
Trib C	2	1.719	PF 1	1432	2737.7	2739.7	2739.7	2740.5	0.019535	7.34	215.57	146.59	1
Trib C	2	1.637	PF 1	1432	2724	2726.48	2726.48	2727.32	0.015795	7.79	235.86	150.86	0.93
Trib C	2	1.596	PF 1	1432	2717.9	2720.61	2720.61	2721.81	0.016458	8.84	168.88	123.45	0.98
Trib C	2	1.563	PF 1	1465	2712.9	2715.55	2715.55	2716.36	0.020401	8.82	269.51	240.43	1.06
Trib C	2	1.453	PF 1	1465	2695.1	2697.13	2697.13	2697.76	0.021093	7.16	286.54	237.77	1.02
Trib C	2	1.406	PF 1	1465	2686.6	2688.59	2688.59	2689.25	0.023693	7.07	259.29	206.5	1.06
Trib C	2	1.354	PF 1	1465	2677.7	2679.74	2679.74	2680.61	0.018997	7.62	206.64	126.07	1
Trib C	2	1.328	PF 1	1465	2674	2675.78	2675.78	2676.63	0.018909	7.46	207.32	129.73	0.99
Trib C	2	1.311	PF 1	1465	2670.5	2672.86	2672.86	2673.79	0.018115	8.13	217.7	125.56	0.99
Trib C	2	1.223	PF 1	1465	2654.6	2657.83	2657.83	2658.72	0.017788	8.45	247.2	153.98	1
Trib C	2	1.197	PF 1	1465	2649.5	2652.85	2652.85	2654.16	0.016315	9.25	166.58	70.36	0.98
Trib C	2	1.179	PF 1	1465	2646	2649.1	2649.1	2650.26	0.017431	9.43	204.2	93.6	1.01
Trib C	2	1.153	PF 1	1465	2641	2645.19	2645.19	2646.65	0.014503	9.88	167.87	67.86	0.96
Trib C	2	1.142	PF 1	1465	2636.5	2641.25	2641.25	2642.54	0.015375	10.97	221.26	86.54	1
Trib C	2	1.13	PF 1	1497	2635.9	2639.66	2639.66	2641.26	0.015288	10.21	153.83	53.78	0.98
Trib C	2	1.113	PF 1	1497	2632	2636.05	2636.05	2637.84	0.014803	10.82	146.75	45.18	0.98
Trib C	2	1.096	PF 1	1497	2628	2632.52	2632.52	2634.51	0.014032	11.51	144.25	41.04	0.97
Trib C	2	1.081	PF 1	1497	2622.2	2626.65	2626.65	2628.3	0.014499	10.5	157.53	51.71	0.97
Trib C	2	1.061	PF 1	1497	2614	2619.91	2619.91	2622.3	0.038394	12.66	130.25	30.13	0.94
Trib C	2	1.023	PF 1	1497	2600.6	2607.25	2607.25	2609.75	0.03662	13.53	134.93	29.29	0.95
Trib C	2	1.017	PF 1	1497	2593.5	2600.28	2600.28	2602.78	0.040567	13.01	127.49	28.37	0.93

TABLE 1		HEC-RAS Plan: Plan Final Profile: PF 1											
River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Trib C	2	1.009	PF 1	1497	2588.9	2593.34	2593.34	2595.2	0.042641	11.23	145.7	41.75	0.97
Trib C	2	1.001	PF 1	1497	2578	2583.84	2583.84	2585.91	0.049899	13.57	142.95	35.7	1.06
Trib C	2	0.985	PF 1	1497	2570	2575.7	2575.7	2577.85	0.037929	12.22	139.73	35.84	0.93
Trib C	2	0.945	PF 1	1497	2562	2565.61	2565.6	2567.09	0.043886	9.93	161.14	57.59	0.95
Trib C	2	0.933	PF 1	1497	2560	2563.39	2563.18	2564.52	0.036434	8.83	186.22	68.93	0.87
Trib C	2	0.915	PF 1	1497	2555.2	2559.08	2559.08	2560.37	0.053145	10.08	175.37	67.58	1.01
Trib C	2	0.893	PF 1	1497	2551.4	2554.41	2554.18	2555.17	0.033821	7.15	236.4	150.79	0.8
Trib C	2	0.86	PF 1	1497	2546	2548.32	2548.32	2548.93	0.038035	7.12	288.65	230.71	0.83
Trib C	1	0.666	PF 1	2060	2508.7	2510.9	2510.9	2511.4	0.01968	7.51	519.73	587.6	1.11
Trib C	1	0.549	PF 1	2060	2486.2	2488.66	2488.66	2489.34	0.012355	7.68	452.25	352.7	0.94
Trib C	1	0.468	PF 1	2100	2470.3	2472.84	2472.84	2473.3	0.016636	7.12	567.47	584.03	1.03
Trib C	1	0.335	PF 1	2100	2447.3	2449.08	2449.08	2449.52	0.015516	6.16	555.4	647.76	0.97
Trib C	1	0.303	PF 1	2100	2441.49	2442.88	2442.88	2443.24	0.018652	4.92	459.55	677.77	0.98

TABLE 2		HEC-RAS Plan: Plan Final Profile: PF 1												
River	Reach	River Sta	Profile	W.S. Ele	Prof Delta	E.G. Elev	Top Wdth	Q Left	Q Channel	Q Right	Enc Sta L	Ch Sta L	Ch Sta R	Enc Sta R
				(ft)	(ft)	(ft)	(ft)	(cfs)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)
Trib C3	1	2.101	PF 1	3211.2		3211.65	71.73	2.08	270.39	0.53		9985.6	10042.3	
Trib C3	1	2.028	PF 1	3202.7		3203.07	79.42	3.44	261.18	8.39		9990.9	10045.6	
Trib C3	1	1.893	PF 1	3182.2		3182.74	43.74	0.04	271.92	1.04		9975.4	10013.1	
Trib C3	1	1.785	PF 1	3170.7		3171.03	136.1	4.29	401.31	3.4		9960.9	10083.4	
Trib C3	1	1.72	PF 1	3161		3161.49	93.79	7.85	396.74	4.42		9971.4	10044.9	
Trib C3	1	1.607	PF 1	3140.6		3140.93	153.9	2.37	404.9	1.73		9918.5	10063.4	
Trib C3	1	1.528	PF 1	3130.9		3131.38	128.84	5.04	535.77	4.19		9925.1	10033	
Trib C3	1	1.421	PF 1	3111.9		3112.47	115.07	21.21	470.8	52.99		9988.5	10035.6	
Trib C3	1	1.306	PF 1	3097.1		3098.02	43.11		527.05	17.95		9986.4	10028.3	
Trib C3	1	1.214	PF 1	3081.8		3082.33	136.35	68.64	418.71	57.65		9989.1	10026.2	
Trib C3	1	1.096	PF 1	3066.5		3067.15	125.08	55.43	416.59	72.98		9991.1	10024.8	
Trib C3	1	1.015	PF 1	3058.6		3059.18	109.78	174.71	339.23	31.06		9984.6	10004.7	
Trib C3	1	0.957	PF 1	3047.2		3047.79	137	10.12	364.66	170.23		9996.2	10020.6	
Trib C3	1	0.89	PF 1	3032.4		3033.24	78.33	27.91	690.92	5.17		9969.9	10014.2	
Trib C3	1	0.695	PF 1	2996.6		2996.96	278.11	286.49	435.75	1.75		9973.4	10024.2	
Trib C3	1	0.584	PF 1	2977.4		2977.99	114.52	74.84	624.13	25.03		9987.3	10048.7	
Trib C3	1	0.553	PF 1	2972.9		2974.19	35.89	0.8	701.87	21.33		9986.9	10013.3	
Trib C3	1	0.535	PF 1	2967.7		2968.51	69.07	10.91	698.49	14.6		9974.3	10028	
Trib C3	1	0.497	PF 1	2959.4		2959.96	125.73	4.49	664.56	54.96		9960.5	10039.5	
Trib C3	1	0.408	PF 1	2940.7		2941.29	224.16	15.67	594.58	113.75		9985.8	10022.6	
Trib C3	1	0.348	PF 1	2927.1		2927.58	254.4	0.95	663.18	59.87		9933.7	10031.2	
Trib C3	1	0.267	PF 1	2910.1		2910.46	340.65	109.97	589.28	204.75		10053.7	10153.5	
Trib C3	1	0.197	PF 1	2895		2895.41	276.63	216.48	681.26	6.26		9920.3	10031.3	
Trib C3	1	0.133	PF 1	2881.2		2881.65	257.3	193.46	703.32	7.23		9965	10038.4	
Trib C2	1	1.011	PF 1	2937		2937.53	44.62	1.39	220.11	2.5		9967.7	10004.6	
Trib C2	1	0.971	PF 1	2928.7		2929.34	36.31	4.94	182.74	36.33		9997.8	10014.7	
Trib C2	1	0.95	PF 1	2924.6		2924.9	89.43	1.43	221.31	1.26		9962.1	10044.9	
Trib C2	1	0.866	PF 1	2910.5		2910.92	65.06	15.75	141.94	66.31		9995.5	10009.4	
Trib C2	1	0.834	PF 1	2904.7		2904.93	111.34	144.08	66.73	13.19		9986.7	10003.1	
Trib C2	1	0.763	PF 1	2891.8		2892.25	116.21	58.29	272.03	4.67		9982.4	10013.4	
Trib C2	1	0.705	PF 1	2880.9		2881.22	149.5	85.66	248.69	0.65		10090.6	10152	
Trib C2	1	0.639	PF 1	2868.5		2868.66	260.16	0.98	332.9	1.12		9893.6	10146.7	
Trib C2	1	0.601	PF 1	2860.6		2860.85	162.88	43.16	149.79	142.06		9992.1	10024.4	
Trib C2	1	0.528	PF 1	2847.1		2847.53	79.65	1.21	323.6	10.19		9982.8	10039	
Trib C2	1	0.5	PF 1	2842.7		2842.94	187.82	8.43	323.8	2.77		9831.7	10008	
Trib C2	1	0.443	PF 1	2831.9		2832.29	133.36	4.27	442.45	0.28		9982.8	10101.6	
Trib C2	1	0.379	PF 1	2821.1		2821.57	91.83	2.61	441.64	2.76		9972.4	10048.2	

TABLE 2		HEC-RAS Plan: Plan Final Profile: PF 1												
River	Reach	River Sta	Profile	W.S. El	Prof Delta	E.G. Elev	Top Wdth	Q Left	Q Channel	Q Right	Enc Sta L	Ch Sta L	Ch Sta R	Enc Sta R
				(ft)	(ft)	(ft)	(ft)	(cfs)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)
Trib C2	1	0.304	PF 1	2807.5		2808.13	56.64	3.34	439.73	3.93		9984.7	10031.4	
Trib C2	1	0.263	PF 1	2800.8		2801.29	102.75	24.37	325.51	97.12		9987.6	10018.2	
Trib C2	1	0.224	PF 1	2793.6		2793.98	157.38	6.56	357.41	83.04		9986.3	10033.1	
Trib C2	1	0.187	PF 1	2786.6		2786.84	120.45	447				9980.3	10012.8	
Trib C2	1	0.123	PF 1	2775.3		2775.86	80.4	36.9	407.02	3.08		9987.7	10037.3	
Trib C2	1	0.094	PF 1	2770.6		2771.2	62.86	9.37	425.92	11.71		9998.7	10045.8	
Trib C2	1	0.077	PF 1	2767.4		2768.01	76.23	5.45	418.23	23.32		9993	10041.8	
Trib C1	1	1.755	PF 1	2914.5		2914.76	232.33	69.91	199.63	0.47		9959	10019	
Trib C1	1	1.681	PF 1	2902.6		2902.87	212.96	59.38	207.15	3.47		9961.8	10025.7	
Trib C1	1	1.615	PF 1	2890.7		2890.96	117.89	0.34	266.32	3.34		9940.1	10036.8	
Trib C1	1	1.529	PF 1	2877.4		2877.72	83.26		270			9824	10068	
Trib C1	1	1.424	PF 1	2856.8		2856.96	164.72	9.91	180.86	79.22		9976.1	10025.7	
Trib C1	1	1.38	PF 1	2849.1		2849.37	90.42	89.53	260.46	54.01		9979.2	10014	
Trib C1	1	1.365	PF 1	2846.4		2846.68	117.11	23.62	217.91	162.47		9993.8	10020.7	
Trib C1	1	1.332	PF 1	2841		2841.19	149.48	227.93	173.88	2.19		9973.6	10017.5	
Trib C1	1	1.293	PF 1	2833.6		2834.05	66.88	4.36	398.2	1.45		9954.5	10009.3	
Trib C1	1	1.238	PF 1	2821.6		2822.05	116.97	9.57	310.02	84.4		9987.1	10022.3	
Trib C1	1	1.186	PF 1	2812.8		2812.96	198.99	159.54	211.57	32.89		9988.1	10010.3	
Trib C1	1	1.126	PF 1	2800.9		2801.16	165.22	384.7	154.3			9951.5	10075.9	
Trib C1	1	1.085	PF 1	2793.3		2793.5	188.39	23.1	512.19	3.71		9956.8	10091.4	
Trib C1	1	1.057	PF 1	2788.6		2789.13	95.96	107.48	421.01	10.52		9975.3	10012.1	
Trib C1	1	1.014	PF 1	2780.4		2780.53	150.89	25.76	175.23	338.01		9991.5	10017.4	
Trib C1	1	0.997	PF 1	2776.7		2777.13	147.6	2.95	416.57	119.48		9983.5	10068	
Trib C1	1	0.977	PF 1	2771.7		2771.9	130.28	32.25	434.27	72.47		9956.9	10030.5	
Trib C1	1	0.93	PF 1	2763.2		2763.56	116.79	70.93	428.73	39.34		9969.1	10036	
Trib C1	1	0.874	PF 1	2751.1		2751.42	128.82	36.89	324.57	177.54		9979.6	10025.9	
Trib C1	1	0.81	PF 1	2738.4		2738.81	119.12	27.86	450.98	60.15		9969.4	10029	
Trib C1	1	0.784	PF 1	2732.8		2733.17	114.24	21.4	335.96	181.64		9994.6	10033.9	
Trib C1	1	0.74	PF 1	2723.8		2724.14	115	17.61	340.37	181.02		9990.9	10026.3	
Trib C1	1	0.7	PF 1	2715.7		2716.14	93.62	7.3	347.21	184.48		9986.8	10020.5	
Trib C1	1	0.646	PF 1	2704.4		2704.92	71.32	10.7	457.59	70.71		9998.1	10036.2	
Trib C1	1	0.623	PF 1	2699.4		2699.88	85.59	239.89	231.97	67.14		9990.4	10012.7	
Trib C1	1	0.601	PF 1	2696.4		2696.68	73.86	7.51	512.84	18.66		9959	10011.5	
Trib C1	1	0.58	PF 1	2693.2		2693.85	75.66	6.27	452.16	80.57		9976.2	10010.9	
Trib C1	1	0.565	PF 1	2689.5		2690	77.08	14.76	515.86	8.38		9967.1	10026.7	
Trib C1	1	0.547	PF 1	2685.2		2685.86	67.7	149.1	381.66	8.23		9991.7	10015.9	
Trib C1	1	0.523	PF 1	2679.2		2679.82	72.24	158.27	378.44	2.29		9989.3	10010.3	

TABLE 2		HEC-RAS Plan: Plan Final Profile: PF 1												
River	Reach	River Sta	Profile	W.S. El	Prof Delta	E.G. Elev	Top Wdth	Q Left	Q Channel	Q Right	Enc Sta L	Ch Sta L	Ch Sta R	Enc Sta R
				(ft)	(ft)	(ft)	(ft)	(cfs)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)
Trib C1	1	0.485	PF 1	2670.9		2671.61	59.31	2.09	550.26	10.65		9982.9	10027.3	
Trib C1	1	0.464	PF 1	2666		2666.64	55.01	4.06	543.71	15.23		9968.1	10010.7	
Trib C1	1	0.451	PF 1	2662.5		2663.42	42.9	2.34	559.31	1.35		9979.8	10016.5	
Trib C1	1	0.434	PF 1	2658		2659.1	34.23	17.05	509.91	36.05		9994.8	10016.1	
Trib C1	1	0.416	PF 1	2652.2		2652.94	40	4.27	537.6	21.13		9986.2	10012	
Trib C1	1	0.402	PF 1	2649.2		2650.38	33.86	27.47	485.58	49.95		9989.8	10006.3	
Trib C1	1	0.392	PF 1	2646.2		2646.94	35.53	4.86	543.97	14.17		9989	10014.3	
Trib C1	1	0.377	PF 1	2642.5		2643.86	23.23	0.41	562.34	0.25		9990.6	10011.9	
Trib C1	1	0.367	PF 1	2638.7		2639.99	27.02	7.41	546.87	8.72		9988.3	10008	
Trib C1	1	0.354	PF 1	2624.7		2626.28	20.42	46.36	504.13	12.5		9994.8	10006.8	
Trib C1	1	0.346	PF 1	2616.8		2618.31	22.68	23.75	517.12	22.13		9994.3	10009	
Trib C1	1	0.336	PF 1	2609.9		2611.15	31	135.59	407.23	20.18		9997.6	10007.9	
Trib C1	1	0.326	PF 1	2595.7		2596.47	35.75	16.67	527.39	18.95		9997.4	10024.7	
Trib C1	1	0.312	PF 1	2592.3		2593.61	26.05	0.05	560.74	2.21		9990.1	10013.6	
Trib C1	1	0.283	PF 1	2581.2		2581.87	93.44	26.73	485.31	50.96		9977	10022.4	
Trib C1	1	0.262	PF 1	2574.5		2574.96	190.11	14.37	455.77	92.86		9977	10036.9	
Trib C1	1	0.206	PF 1	2558.2		2558.4	335.96		50.74	512.26		9675	9749	
Trib C	4	3.191	PF 1	2995.6		2995.97	67.56	6.29	168.63	5.08		9984	10022	
Trib C	4	3.12	PF 1	2984.1		2984.45	52.07	0	179.98	0.01		9968	10019	
Trib C	4	3.085	PF 1	2978.8		2979.22	49.84	0.25	179.25	0.5		9977	10023	
Trib C	4	3.05	PF 1	2973.5		2974.03	29.89	0.85	178.45	0.7		9987	10011	
Trib C	4	2.983	PF 1	2963.2		2963.72	29.98	0.15	179.76	0.09		9985	10013	
Trib C	4	2.955	PF 1	2959.6		2960.28	23.14	2.27	175.93	1.79		9993	10010	
Trib C	4	2.916	PF 1	2953.1		2953.58	65.59	54.2	190.6	24.19		9995	10019	
Trib C	4	2.844	PF 1	2940.6		2940.82	128.26	0.2	268.57	0.23		9964	10088	
Trib C	4	2.776	PF 1	2928.8		2929.11	137.38	41.23	227.75	0.03		10097	10175	
Trib C	4	2.721	PF 1	2918.8		2919.21	90.08	0.24	262.05	6.71		9969	10034	
Trib C	4	2.644	PF 1	2904.8		2904.99	243.81	3.79	248.85	16.36		9969	10092	
Trib C	4	2.553	PF 1	2887.9		2888.24	91.92		359			9951	10050	
Trib C	4	2.51	PF 1	2881.2		2881.68	84.34	14.02	337.93	7.04		9952	10009	
Trib C	4	2.485	PF 1	2876.6		2876.98	133.98	29.72	286.48	42.8		9978	10033	
Trib C	3	2.344	PF 1	2853.1		2853.5	312.45	11.49	453.59	438.91		9990	10024	
Trib C	3	2.253	PF 1	2836.6		2837.14	188.85	130.09	586.45	187.47		9978	10028	
Trib C	3	2.226	PF 1	2831.1		2831.63	162.22	94.05	513.69	296.26		9997	10040	
Trib C	3	2.171	PF 1	2820.6		2821.02	248.69	510.16	373.01	20.83		9985	10022	
Trib C	3	2.128	PF 1	2812.6		2813.05	396.63	347.67	700.11	35.22		9970	10031	
Trib C	3	2.065	PF 1	2800.6		2801.01	317.54	470.9	608.5	3.6		9962	10011	

TABLE 2		HEC-RAS Plan: Plan Final Profile: PF 1												
River	Reach	River Sta	Profile	W.S. Ele	Prof Delta	E.G. Elev	Top Wdth	Q Left	Q Channel	Q Right	Enc Sta L	Ch Sta L	Ch Sta R	Enc Sta R
				(ft)	(ft)	(ft)	(ft)	(cfs)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)
Trib C	3	2.022	PF 1	2791.7		2792.15	261.08	45.27	657.52	380.21		9961	10043	
Trib C	3	1.944	PF 1	2778.1		2778.71	198.74	138.31	940.22	4.47		9959	10037	
Trib C	3	1.867	PF 1	2765.7		2766.59	118.5	111.53	919.54	51.93		9973	10023	
Trib C	2	1.795	PF 1	2753.6		2754.56	123.07	169.03	1234.19	28.78		9954	10019	
Trib C	2	1.719	PF 1	2739.7		2740.5	146.59	10.54	1359.61	61.85		9950	10060	
Trib C	2	1.637	PF 1	2726.5		2727.32	150.86	7.61	1260.27	164.12		9970	10045	
Trib C	2	1.596	PF 1	2720.6		2721.81	75.9	13.52	1416.28	2.2		9941	10004	
Trib C	2	1.563	PF 1	2715.6		2716.36	165.71		908.37	556.63		9944	10029	
Trib C	2	1.453	PF 1	2697.1		2697.76	237.77	28.92	1107.64	328.44		9916	10017	
Trib C	2	1.406	PF 1	2688.6		2689.25	206.5	5.46	1176.86	282.69		9927	10048	
Trib C	2	1.354	PF 1	2679.7		2680.61	126.07	47.37	1414.27	3.36		9977	10079	
Trib C	2	1.328	PF 1	2675.8		2676.63	129.73	4.34	1434.3	26.36		9939	10048	
Trib C	2	1.311	PF 1	2672.9		2673.79	125.56	7.69	1300.68	156.63		9955	10032	
Trib C	2	1.223	PF 1	2657.8		2658.72	153.98	43.68	1133.43	287.89		9966	10026	
Trib C	2	1.197	PF 1	2652.9		2654.16	70.36	3.88	1443.49	17.63		9988	10045	
Trib C	2	1.179	PF 1	2649.1		2650.26	93.6	0.96	1196.41	267.64		9973	10020	
Trib C	2	1.153	PF 1	2645.2		2646.65	67.86	15.76	1408.24	41		9962	10005	
Trib C	2	1.142	PF 1	2641.3		2642.54	86.54	43.88	942.86	478.26		9996	10019	
Trib C	2	1.13	PF 1	2639.7		2641.26	53.78	10.92	1479.45	6.63		9993	10036	
Trib C	2	1.113	PF 1	2636.1		2637.84	45.18	7.53	1471.75	17.72		9985	10021	
Trib C	2	1.096	PF 1	2632.5		2634.51	41.04	22.68	1447.03	27.28		9986	10015	
Trib C	2	1.081	PF 1	2626.7		2628.3	51.71	10.95	1440.61	45.45		9977	10015	
Trib C	2	1.061	PF 1	2619.9		2622.3	30.13	38.82	1429.49	28.69		9994	10014	
Trib C	2	1.023	PF 1	2607.3		2609.75	29.29	145.91	1279.61	71.47		9995	10010	
Trib C	2	1.017	PF 1	2600.3		2602.78	28.37	12.32	1412.95	71.73		9992	10010	
Trib C	2	1.009	PF 1	2593.3		2595.2	41.75	57.35	1403.25	36.4		9977	10007	
Trib C	2	1.001	PF 1	2583.8		2585.91	35.7	51.24	834.34	611.41		9996	10008	
Trib C	2	0.985	PF 1	2575.7		2577.85	35.84	60.19	1375.31	61.5		9986	10007	
Trib C	2	0.945	PF 1	2565.6		2567.09	57.59	14.2	1437.25	45.55		9973	10016	
Trib C	2	0.933	PF 1	2563.4		2564.52	68.93	27.65	1371.67	97.67		9982	10030	
Trib C	2	0.915	PF 1	2559.1		2560.37	67.58	0.91	1056.84	439.25		9983	10017	
Trib C	2	0.893	PF 1	2554.4		2555.17	150.79	4.13	1423.03	69.84		9952	10032	
Trib C	2	0.86	PF 1	2548.3		2548.93	230.71	33.89	1093.57	369.54		9980	10048	
Trib C	1	0.666	PF 1	2510.9		2511.4	587.6	698.87	1032.44	328.69		9972	10069	
Trib C	1	0.549	PF 1	2488.7		2489.34	352.7	132.21	1482.14	445.64		9932	10025	
Trib C	1	0.468	PF 1	2472.8		2473.3	584.03	963.15	1134.26	2.6		9909	10016	
Trib C	1	0.335	PF 1	2449.1		2449.52	647.76	105.14	1487.75	507.12		9964	10156	

TABLE 2		HEC-RAS Plan: Plan Final Profile: PF 1												
River	Reach	River Sta	Profile	W.S. Ele	Prof Delta	E.G. Elev	Top Wdth	Q Left	Q Channel	Q Right	Enc Sta L	Ch Sta L	Ch Sta R	Enc Sta R
				(ft)	(ft)	(ft)	(ft)	(cfs)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)
Trib C	1	0.303	PF 1	2442.9		2443.24	677.77	27.09	2044.11	28.8		9489.4	10020.42	

TABLE 1		HEC-RAS Plan: Plan Final River: Trib D Reach: 1 Profile: PF 1											
Reach	River Sta	Profile	Q Total	Min Ch I	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)		
1	1.283	PF 1	208	2675.4	2677.1	2677.1	2677.63	0.017999	6.22	44.35	50.35	0.93	
1	1.242	PF 1	208	2660	2661.57		2661.64	0.002042	2.2	102.93	79.39	0.32	
1	1.217	PF 1	208	2660	2660.58	2660.58	2660.86	0.027984	4.28	48.96	87.55	1	
1	1.147	PF 1	208	2640	2640.54	2640.54	2640.79	0.029445	4	52.15	106.07	1	
1	1.042	PF 1	208	2603.7	2604.96	2604.96	2605.43	0.021871	5.71	42.29	49.57	0.98	
1	1.023	PF 1	208	2598.5	2599.59	2599.59	2600.01	0.030098	6.78	53.02	66.22	1.15	
1	0.939	PF 1	312	2573.2	2574.53	2574.53	2575.04	0.023677	6.36	69.29	83.71	1.03	
1	0.833	PF 1	312	2540.1	2541.87	2541.87	2542.34	0.01722	5.78	70.92	95.42	0.9	
1	0.731	PF 1	312	2512.1	2513.66	2513.66	2514.1	0.016576	5.81	78.94	112.65	0.88	
1	0.649	PF 1	312	2484	2485.04	2485.04	2485.27	0.029701	3.86	86.36	208.94	0.99	
1	0.52	PF 1	416	2471.6	2472.5	2472.5	2472.85	0.048461	5.34	89.75	139.3	1.29	

TABLE 2		HEC-RAS Plan: Plan Final River: Trib D Reach: 1 Profile: PF 1											
Reach	River Sta	Profile	W.S. E	Prof Del	E.G. Elev	Top Wdth /	Q Left	Q Channe	Q Right	Enc Sta L	Ch Sta L	Ch Sta R	Enc Sta R
			(ft)	(ft)	(ft)	(ft)	(cfs)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)
1	1.283	PF 1	2677		2677.63	50.35	9.34	182.45	16.22		9996.18	10017.18	
1	1.242	PF 1	2662		2661.64	79.39	0.42	200.12	7.46		9981.23	10041.67	
1	1.217	PF 1	2661		2660.86	87.55	0.1	207.6	0.3		9973.46	10058.47	
1	1.147	PF 1	2641		2640.79	106.07	0.1	207.77	0.13		9968.5	10072.69	
1	1.042	PF 1	2605		2605.43	49.57	7.24	192.61	8.15		9988.26	10020.03	
1	1.023	PF 1	2600		2600.01	66.22	54.87	102.42	50.71		9995.37	10009.35	
1	0.939	PF 1	2575		2575.04	83.71	67.39	243.8	0.81		9973.8	10006.38	
1	0.833	PF 1	2542		2542.34	95.42	24.37	281.1	6.53		9973.76	10011.35	
1	0.731	PF 1	2514		2514.1	112.65	36.17	261.83	14		9977.2	10010.8	
1	0.649	PF 1	2485		2485.27	208.94	5.55	300.11	6.33		9850.09	10021.63	
1	0.52	PF 1	2473		2472.85	139.3	236.2	179.8			9847.05	10031.96	

TABLE 1		HEC-RAS Plan: Plan Final River: Trib E Reach: 1 Profile: PF 1											
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)		
1	0.487	PF 1	189	2694.6	2696.96	2696.96	2697.63	0.013742	8.22	45.82	37.76	0.99	
1	0.441	PF 1	189	2676.4	2677.59	2677.59	2677.96	0.019952	4.92	39.1	56.03	1.01	
1	0.373	PF 1	189	2650.3	2651.4	2651.4	2651.79	0.01662	5.2	42.68	62.37	0.95	
1	0.325	PF 1	189	2630.4	2631.28	2631.28	2631.62	0.018471	4.72	43	70.49	0.97	
1	0.24	PF 1	378	2592.3	2593.79	2593.79	2594.22	0.016393	5.84	92.11	354.08	0.97	
1	0.166	PF 1	378	2554.5	2556.7	2556.7	2557.36	0.013148	6.72	69.39	65.36	0.93	

TABLE 2		HEC-RAS Plan: Plan Final River: Trib E Reach: 1 Profile: PF 1											
Reach	River Sta	Profile	W.S. E	Prof Del	E.G. Elev	Top Wdth /	Q Left	Q Channel	Q Right	Enc Sta L	Ch Sta L	Ch Sta R	Enc Sta R
			(ft)	(ft)	(ft)	(ft)	(cfs)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)
1	0.487	PF 1	2697		2697.63	37.76	14.13	114.45	60.42		9997.4	10003.9	
1	0.441	PF 1	2678		2677.96	56.03	0.57	188.27	0.16		9983.5	10035	
1	0.373	PF 1	2651		2651.79	62.37	5.84	178.91	4.25		9971	10008.1	
1	0.325	PF 1	2631		2631.62	70.49	2.81	185.42	0.77		9983.7	10036.6	
1	0.24	PF 1	2594		2594.22	122.59	21.91	300.05	56.04		9690.1	9736.3	
1	0.166	PF 1	2557		2557.36	65.36	20.81	353.57	3.62		9980	10012.3	

TABLE 1		HEC-RAS Plan: Plan Final River: Trib F Reach: 1 Profile: PF 1										
Reach	River Sta	Profile	Q Tota	Min Ch E	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
1	2.862	PF 1	395	3211.7	3212.79	3212.79	3213.09	0.016832	4.58	108.88	210.1	0.93
1	2.81	PF 1	395	3200	3200.96	3200.96	3201.37	0.017711	5.23	81.35	111.39	0.98
1	2.674	PF 1	395	3170	3171.27	3171.27	3171.77	0.015041	6.01	86.77	101.52	0.95
1	2.523	PF 1	592	3140	3140.93	3140.93	3141.26	0.01712	4.94	166.14	278.52	0.95
1	2.407	PF 1	592	3117	3118.23	3118.23	3118.59	0.020194	4.83	124.79	190.61	1.01
1	2.322	PF 1	789	3097.9	3099.25	3099.25	3099.71	0.016578	5.51	154.29	201.33	0.97
1	2.238	PF 1	789	3080	3080.98	3080.98	3081.43	0.018393	5.39	148.12	170.12	1
1	2.14	PF 1	789	3060.8	3062.73	3062.73	3063.3	0.015624	6.36	154.23	148.18	0.98
1	2.052	PF 1	789	3044.5	3046	3046	3046.44	0.018263	5.37	152.24	184.78	0.99
1	1.939	PF 1	789	3020.1	3021.92	3021.92	3022.38	0.017599	6.7	201.95	215.19	1.04
1	1.873	PF 1	1150	3008.6	3010.65	3010.65	3011.2	0.014084	6.24	228.96	224.11	0.94
1	1.791	PF 1	1150	2990	2991.9	2991.9	2992.74	0.014535	7.38	161.01	105.93	0.99
1	1.701	PF 1	1150	2970	2971.26	2971.26	2971.87	0.016507	6.28	185.51	157.28	1
1	1.604	PF 1	1150	2950	2951.24	2951.24	2951.84	0.016656	6.2	189.86	170.64	1
1	1.543	PF 1	1150	2935.8	2937.92	2937.92	2938.67	0.014304	7.04	179.28	139.32	0.97
1	1.458	PF 1	1510	2920	2921.76	2921.76	2922.6	0.015007	7.35	207.38	129.64	1
1	1.376	PF 1	1510	2900	2901.51	2901.51	2902.25	0.015677	6.94	220.73	153.77	1
1	1.303	PF 1	1510	2887	2889.92	2889.92	2890.88	0.014078	7.91	198.35	110.31	0.99
1	1.245	PF 1	1510	2870	2872.18	2872.18	2873.22	0.01407	8.18	186.71	95.11	1
1	1.218	PF 1	1510	2860	2862.95	2862.95	2864.13	0.01332	8.74	175.33	79.75	1
1	1.182	PF 1	1510	2850	2852.85	2852.85	2854.14	0.01315	9.12	167.36	69.16	1
1	1.131	PF 1	1510	2839.9	2841.73	2841.73	2842.56	0.015032	7.33	208.86	132.39	1
1	1.091	PF 1	1510	2830	2831.23	2831.23	2831.83	0.016893	6.22	243.04	205.28	1
1	1.065	PF 1	1510	2820.2	2822.93	2822.93	2823.84	0.01343	7.76	211.06	136.47	0.97
1	0.96	PF 1	1670	2791.5	2794.67	2794.67	2795.64	0.01374	7.96	219.34	128.85	0.99
1	0.868	PF 1	1670	2763.4	2765.66	2765.66	2766.2	0.017516	5.9	283.06	315.64	1
1	0.808	PF 1	1670	2746.6	2748.51	2748.51	2749.08	0.017738	6.02	278.86	267.04	1.01
1	0.676	PF 1	1670	2706.7	2708.53	2708.53	2709.18	0.016393	6.48	261.66	218.34	1
1	0.576	PF 1	1670	2678.1	2679.41	2679.41	2679.89	0.018264	5.57	305.07	336.4	1
1	0.488	PF 1	1826	2650.8	2653.48	2653.48	2654.1	0.014423	6.46	321.85	333.45	0.95
1	0.396	PF 1	1826	2625.9	2627.48	2627.48	2628.01	0.017137	5.87	326.07	344.01	0.99
1	0.299	PF 1	1826	2602.1	2603.82	2603.82	2604.46	0.016018	6.52	304.94	262.45	0.99
1	0.196	PF 1	1826	2580	2581.35	2581.35	2581.86	0.018081	5.75	318.73	326.72	1.01

TABLE 2		HEC-RAS Plan: Plan Final River: Trib F Reach: 1 Profile: PF 1											
Reach	River Sta	Profile	W.S. E	Prof Del	E.G. Elev	Top Wdth /	Q Left	Q Channel	Q Right	Enc Sta L	Ch Sta L	Ch Sta R	Enc Sta R
			(ft)	(ft)	(ft)	(ft)	(cfs)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)
1	2.862	PF 1	3213		3213.09	210.1	27.67	362.09	5.24		9927.79	10032.14	
1	2.81	PF 1	3201		3201.37	111.39	3.11	387.19	4.71		9960.09	10043.26	
1	2.674	PF 1	3171		3171.77	101.52	21.14	350.14	23.72		9965.64	10012.7	
1	2.523	PF 1	3141		3141.26	278.52	92.82	497.2	1.98		9919.73	10039.47	
1	2.407	PF 1	3118		3118.59	190.61	0.21	590.03	1.76		9895.5	10066.08	
1	2.322	PF 1	3099		3099.71	201.33	3.79	776.39	8.82		9898.1	10037.17	
1	2.238	PF 1	3081		3081.43	170.12	1.03	786.88	1.09		9970.92	10132.24	
1	2.14	PF 1	3063		3063.3	148.18	7.28	704.86	76.86		9989.67	10073.93	
1	2.052	PF 1	3046		3046.44	184.78	7.1	780.89	1.01		9980.53	10141.17	
1	1.939	PF 1	3022		3022.38	215.19	2.67	495.34	290.99		9986.64	10043.5	
1	1.873	PF 1	3011		3011.2	224.11	57.33	1048.4	44.28		9965.85	10087.65	
1	1.791	PF 1	2992		2992.74	105.93	3.85	1142.11	4.04		9940.62	10029.79	
1	1.701	PF 1	2971		2971.87	157.28	1.96	1146.52	1.53		9960.35	10107.93	
1	1.604	PF 1	2951		2951.84	170.64	3.11	1143.78	3.12		9915.69	10068.99	
1	1.543	PF 1	2938		2938.67	139.32	10.53	1120.61	18.86		9979.2	10076.52	
1	1.458	PF 1	2922		2922.6	129.64	1.14	1507.41	1.45		9946.21	10067.99	
1	1.376	PF 1	2902		2902.25	153.77	1.87	1504.32	3.81		9937.75	10083.13	
1	1.303	PF 1	2890		2890.88	110.31	12.97	1492.64	4.39		9989.05	10084.81	
1	1.245	PF 1	2872		2873.22	95.11	0.64	1506.93	2.43		9949.34	10037.89	
1	1.218	PF 1	2863		2864.13	79.75	2.35	1506.45	1.2		9971.19	10043.26	
1	1.182	PF 1	2853		2854.14	69.16	1.65	1507.5	0.85		9970.48	10034.2	
1	1.131	PF 1	2842		2842.56	132.39	0.66	1506.07	3.28		9995.59	10118.5	
1	1.091	PF 1	2831		2831.83	205.28	0.21	1509.66	0.13		9869.12	10071.41	
1	1.065	PF 1	2823		2823.84	136.47	15.35	1480.43	14.22		9944.89	10041.05	
1	0.96	PF 1	2795		2795.64	128.85	6.15	1654.91	8.94		9965.64	10068.4	
1	0.868	PF 1	2766		2766.2	265.15		1669.88	0.12		9811.8	10074.34	
1	0.808	PF 1	2749		2749.08	267.04	0.22	1668.89	0.9		9809.21	10061.32	
1	0.676	PF 1	2709		2709.18	218.34	2.36	1665.94	1.71		9918.33	10116.04	
1	0.576	PF 1	2679		2679.89	336.4	0.52	1662.55	6.93		9697.31	10009.73	
1	0.488	PF 1	2653		2654.1	333.45	0.97	1767.74	57.29		9938.92	10130.63	
1	0.396	PF 1	2627		2628.01	344.01	16.56	1802.97	6.47		9942.92	10225.55	
1	0.299	PF 1	2604		2604.46	262.45	57.45	1762.33	6.22		9841.15	10043.44	
1	0.196	PF 1	2581		2581.86	326.72	0.03	1824.45	1.52		9776.21	10089.87	

TABLE 1		HEC-RAS Plan: Plan Final River: Trib G Reach: 1 Profile: PF 1										
Reach	River Sta	Profile	Q Total	Min Ch I	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
1	1.02	PF 1	161	2879.4	2880.42	2880.42	2880.64	0.020253	4.71	63.39	137.9	1
1	0.944	PF 1	161	2859.9	2860.43	2860.43	2860.62	0.042004	4.61	56.8	151.43	1.31
1	0.871	PF 1	161	2833.9	2834.84	2834.84	2835.17	0.018472	4.83	41.54	72.42	0.97
1	0.762	PF 1	161	2800	2800.55	2800.55	2800.81	0.022218	4.07	40.75	88.33	1
1	0.657	PF 1	161	2764.2	2764.78	2764.78	2765.05	0.063808	5.49	43.32	99.8	1.6
1	0.55	PF 1	161	2723.5	2724.43	2724.43	2724.84	0.023204	5.79	40.76	64.42	1.11
1	0.486	PF 1	322	2702.6	2703.76	2703.76	2704.08	0.01688	4.68	79.17	144.4	0.93
1	0.432	PF 1	322	2687.5	2688.65	2688.65	2689.09	0.017075	5.51	69.36	115.85	0.98
1	0.357	PF 1	322	2658.5	2659.5	2659.5	2659.83	0.021892	5.29	90.83	150.65	1.06
1	0.273	PF 1	322	2628	2629.72	2629.72	2630.22	0.013739	6.57	86.53	101	0.94

TABLE 2		HEC-RAS Plan: Plan Final River: Trib G Reach: 1 Profile: PF 1											
Reach	River Sta	Profile	W.S. E	Prof Del	E.G. Elev	Top Wdth /	Q Left	Q Channe	Q Right	Enc Sta L	Ch Sta L	Ch Sta R	Enc Sta R
			(ft)	(ft)	(ft)	(ft)	(cfs)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)
1	1.02	PF 1	2880		2880.64	137.9	40.65	95.03	25.32		9989.88	10019.12	
1	0.944	PF 1	2860		2860.62	151.43	0.65	74.67	85.68		9994.71	10036.73	
1	0.871	PF 1	2835		2835.17	72.42	1.73	146.11	13.16		9970.32	10009.87	
1	0.762	PF 1	2801		2800.81	88.33	0.11	159.96	0.93		9983.52	10059.65	
1	0.657	PF 1	2765		2765.05	99.8	0.07	60.35	100.58		9991.19	10021.15	
1	0.55	PF 1	2724		2724.84	64.42	1.32	123.95	35.73		9981.94	10007.19	
1	0.486	PF 1	2704		2704.08	144.4	4.18	309.98	7.84		9970.18	10055.11	
1	0.432	PF 1	2689		2689.09	91.78	9.46	296.39	16.15		9955.95	10010.22	
1	0.357	PF 1	2660		2659.83	150.65	73.95	232.69	15.36		9958.18	10015.15	
1	0.273	PF 1	2630		2630.22	101	30.67	232.02	59.31		9990.59	10013.88	

TABLE 1		HEC-RAS Plan: Plan Final River: Trib H Reach: 1 Profile: PF 1										
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
1	0.787	PF 1	293	2873.8	2875.36	2875.36	2875.85	0.02037	6.16	68.12	88.16	0.97
1	0.739	PF 1	293	2859.3	2860.42	2860.42	2860.68	0.022559	4.74	96.68	187.01	0.94
1	0.672	PF 1	293	2833.7	2835.11	2835.11	2835.55	0.021308	5.88	70.49	87.28	0.97
1	0.6	PF 1	293	2807.4	2808.58	2808.58	2808.91	0.019547	5.05	84.52	144.52	0.91
1	0.53	PF 1	439	2780	2780.87	2780.87	2781.15	0.018608	4.48	138.96	302.61	0.87
1	0.447	PF 1	439	2746.5	2747.6	2747.6	2747.83	0.028332	4.62	152.72	366	1.02
1	0.369	PF 1	439	2719.1	2719.88	2719.88	2720.17	0.038143	4.98	120.84	228.19	1.16
1	0.267	PF 1	439	2682.5	2683.87	2683.87	2684.27	0.020584	5.54	109.68	145.9	0.95
1	0.204	PF 1	585	2668.3	2669.34	2669.34	2669.59	0.017999	4.31	192.79	437.26	0.85
1	0.135	PF 1	585	2650	2650.61	2650.61	2650.88	0.028247	4.21	142.31	272.06	1

TABLE 2		HEC-RAS Plan: Plan Final River: Trib H Reach: 1 Profile: PF 1											
Reach	River Sta	Profile	W.S. E	Prof Del	E.G. Elev	Top Wdth /	Q Left	Q Channe	Q Right	Enc Sta L	Ch Sta L	Ch Sta R	Enc Sta R
			(ft)	(ft)	(ft)	(ft)	(cfs)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)
1	0.787	PF 1	2875		2875.85	88.16	8.67	241.88	42.45		9994.01	10025.38	
1	0.739	PF 1	2860		2860.68	187.01	76.3	214.55	2.15		9956.61	10014.5	
1	0.672	PF 1	2835		2835.55	87.28	56.01	233.95	3.04		9969.35	10004.58	
1	0.6	PF 1	2809		2808.91	144.52	4.06	242.22	46.72		9979.91	10029.87	
1	0.53	PF 1	2781		2781.15	302.61	1.3	382.61	55.08		9951.79	10054.52	
1	0.447	PF 1	2748		2747.83	366	148.27	290.57	0.15		9955.01	10053.9	
1	0.369	PF 1	2720		2720.17	228.19	135.37	300.31	3.32		10020.4	10126.34	
1	0.267	PF 1	2684		2684.27	145.9	35.35	361.96	41.7		9969.39	10031.05	
1	0.204	PF 1	2669		2669.59	437.26	57.62	510.23	17.16		9922.89	10070.29	
1	0.135	PF 1	2651		2650.88	272.06	4.45	580.13	0.42		9890.88	10139.14	

TABLE 1		HEC-RAS Plan: Plan Final River: Trib I Reach: 1 Profile: PF 1											
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)		
1	1.255	PF 1	203	3062.6	3063.41	3063.41	3063.72	0.02724	4.49	45.73	82.25	1	
1	1.185	PF 1	203	3041.6	3042.91	3042.91	3043.22	0.017688	4.97	64.28	112.41	0.87	
1	1.109	PF 1	203	3020	3020.43	3020.43	3020.62	0.031259	3.57	57.14	144.77	0.99	
1	1.012	PF 1	203	2990	2990.27	2990.27	2990.4	0.033192	2.83	71.89	267.89	0.96	
1	0.926	PF 1	203	2960	2960.46	2960.46	2960.67	0.030952	3.69	55.4	133.1	1	
1	0.862	PF 1	304	2939.7	2940.54	2940.54	2940.8	0.040857	5.84	97.66	179.75	1.24	
1	0.782	PF 1	304	2910	2911.59	2911.59	2912.27	0.019654	7.11	56.53	46.99	0.99	
1	0.691	PF 1	304	2877	2878.88	2878.88	2879.62	0.018045	7.61	57.84	44.56	0.98	
1	0.613	PF 1	304	2848.6	2849.96	2849.96	2851.09	0.055419	9.64	49.93	71.19	1.58	
1	0.527	PF 1	304	2815.8	2817.42	2817.42	2817.95	0.01945	6.21	64.42	71.72	0.96	
1	0.438	PF 1	304	2780	2781.36	2781.36	2781.65	0.012665	5.14	125.06	415.02	0.78	
1	0.362	PF 1	405	2747.6	2748.63	2748.63	2749	0.023652	4.91	88.31	135.52	0.97	
1	0.324	PF 1	405	2733.9	2735.17	2735.17	2735.62	0.021609	5.49	83.9	107.11	0.96	
1	0.285	PF 1	405	2724.3	2725.84	2725.84	2726.26	0.017541	5.58	99.67	131.94	0.89	
1	0.232	PF 1	405	2710	2711.22	2711.11	2711.57	0.016215	4.79	88.14	102.9	0.84	
1	0.142	PF 1	405	2696.3	2696.75	2696.75	2696.97	0.077789	5.17	116.24	285.73	1.53	

TABLE 2		HEC-RAS Plan: Plan Final River: Trib I Reach: 1 Profile: PF 1											
Reach	River Sta	Profile	W.S. E	Prof Del	E.G. Elev	Top Wdth /	Q Left	Q Channe	Q Right	Enc Sta L	Ch Sta L	Ch Sta R	Enc Sta R
			(ft)	(ft)	(ft)	(ft)	(cfs)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)
1	1.255	PF 1	3063		3063.72	82.25	0.15	202.75	0.1		9989.4	10061.5	
1	1.185	PF 1	3043		3043.22	112.41	3.17	160.18	39.65		9982.7	10014.7	
1	1.109	PF 1	3020		3020.62	144.77	0.1	202.74	0.16		9973.4	10115.1	
1	1.012	PF 1	2990		2990.4	267.89	0.14	202.8	0.06		9959.6	10224	
1	0.926	PF 1	2960		2960.67	133.1	0.23	202.61	0.16		9941.9	10071.4	
1	0.862	PF 1	2941		2940.8	179.75	70.1	116.28	117.62		9993.6	10022.6	
1	0.782	PF 1	2912		2912.27	46.99	31.81	257.21	14.98		9988.6	10011.3	
1	0.691	PF 1	2879		2879.62	44.56	31.1	242.01	30.9		10000	10016.9	
1	0.613	PF 1	2850		2851.09	71.19	22.6	231.2	50.2		9989.2	10009.9	
1	0.527	PF 1	2817		2817.95	71.72	19.92	266.36	17.72		9981.1	10013.7	

TABLE 1		HEC-RAS Plan: Plan Final River: Trib J Reach: 1 Profile: PF 1										
Reach	River Sta	Profile	Q Total	Min Ch I	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
1	0.886	PF 1	218	3061	3062.72	3062.72	3063.46	0.014513	7.33	38.39	29.44	0.99
1	0.862	PF 1	218	3054.2	3055.79	3055.79	3056.43	0.014665	7.01	44.72	40.18	0.98
1	0.849	PF 1	218	3050.5	3052.15	3052.15	3052.85	0.014497	7.14	40.31	34.04	0.98
1	0.828	PF 1	218	3044.5	3045.38	3045.38	3045.81	0.018727	5.33	42.51	50.92	1
1	0.81	PF 1	218	3040	3041.74	3041.74	3042.44	0.014921	7.5	42.71	34	1
1	0.789	PF 1	218	3030	3032.1	3032.1	3032.93	0.013499	8.08	39.79	27.39	0.98
1	0.766	PF 1	218	3023	3024.67	3024.67	3025.4	0.014563	7.22	38.98	30.66	0.98
1	0.716	PF 1	218	3005.3	3006.82	3006.82	3007.35	0.014997	6.86	53.77	56.01	0.98
1	0.664	PF 1	218	2986.5	2987.84	2987.84	2988.3	0.016297	6.6	61.03	74.94	1
1	0.591	PF 1	327	2966.7	2968.41	2968.41	2968.95	0.01517	7.48	86.34	84.85	1.01
1	0.508	PF 1	327	2936.6	2938.04	2938.04	2938.57	0.015285	6.68	79.45	85.4	0.98
1	0.409	PF 1	327	2900	2902.33	2902.33	2903.25	0.013352	7.78	46.52	30.1	0.96
1	0.331	PF 1	327	2865	2867.83	2867.83	2868.76	0.01263	8.05	50.26	31.81	0.95
1	0.235	PF 1	436	2778.3	2780.05	2780.05	2780.73	0.015626	6.64	68.74	55.11	0.99
1	0.144	PF 1	436	2732.8	2734.75	2734.75	2735.44	0.014674	6.73	69.68	69.76	0.97

TABLE 2		HEC-RAS Plan: Plan Final River: Trib J Reach: 1 Profile: PF 1												
Reach	River Sta	Profile	W.S. E	Prof Del	E.G. Elev	Top Wdth /	Q Left	Q Channel	Q Right	Enc Sta L	Ch Sta L	Ch Sta R	Enc Sta R
			(ft)	(ft)	(ft)	(ft)	(cfs)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)
1	0.886	PF 1	3063		3063.46	29.44	7.18	192.4	18.42		9992.06	10007.35	
1	0.862	PF 1	3056		3056.43	40.18	17.54	178.56	21.9		10000	10016	
1	0.849	PF 1	3052		3052.85	34.04	12.44	191.46	14.11		9991.92	10008.17	
1	0.828	PF 1	3045		3045.81	50.92	3.14	214.7	0.16		10000	10045.89	
1	0.81	PF 1	3042		3042.44	34	29.37	172.08	16.55		9995.05	10008.26	
1	0.789	PF 1	3032		3032.93	27.39	24.05	175.63	18.32		9997.02	10007.4	
1	0.766	PF 1	3025		3025.4	30.66	2.88	192.6	22.53		10000	10015.95	
1	0.716	PF 1	3007		3007.35	56.01	18	155.4	44.6		9993.24	10008.19	
1	0.664	PF 1	2988		2988.3	74.94	24.93	141.18	51.88		9992.15	10008.08	
1	0.591	PF 1	2968		2968.95	84.85	55.14	192.6	79.26		9992.72	10007.79	
1	0.508	PF 1	2938		2938.57	85.4	59.06	242.22	25.73		9979.86	10005.1	
1	0.409	PF 1	2902		2903.25	30.1	4.95	318.38	3.67		9989.2	10009.4	
1	0.331	PF 1	2868		2868.76	31.81	20.64	301.41	4.95		9992.7	10009.6	
1	0.235	PF 1	2780		2780.73	55.11	1.81	430.34	3.85		9996.5	10042.6	
1	0.144	PF 1	2735		2735.44	69.76	5.28	429.13	1.59		9983.1	10025.6	

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

CAMP CREEK TRIBUTARIES FLOOD DELINEATION STUDY

CONTRACT NO. F.C.D. 2004-C023

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

ASPEN CONSULTING ENGINEERS

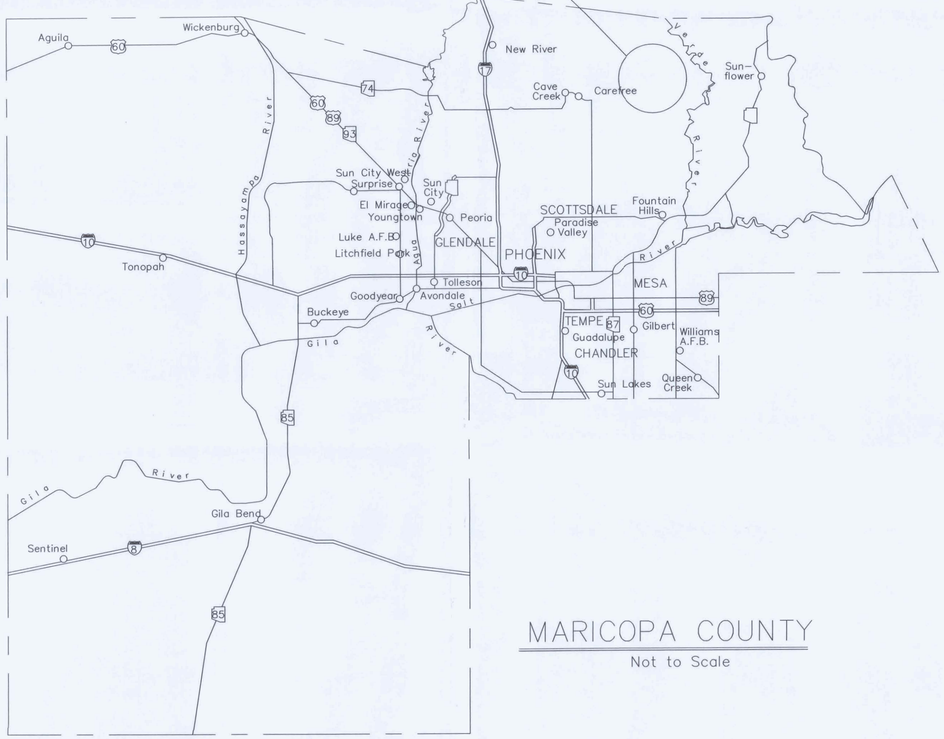
	BY	DATE
DESIGN	JCS	02-06-07
DESIGN CHK.	POL	02-06-07
PLANS	JCS	02-06-07
PLANS CHK.	POL	02-06-07

Registered Professional Engineer (Civil) CERTIFICATE NO. 21699 PHILIP O. LOWE Date Signed 2/6/07 ARIZONA, U.S.A.

FLIGHT DATES

WILSON AND COMPANY	04/27/03
PROJECT ID: 1071, TOPO ID: 401 PROJ: SCOTTSDALE MAPPING, IGA 93-07	09/01/93
COOPER AERIAL	12/04/98
PROJECT ID: 1208, TOPO ID: 650 PROJ: COUNTYWIDE 10-FOOT COUNTOUR MAPPING	01/04/01

PROJECT LOCATION



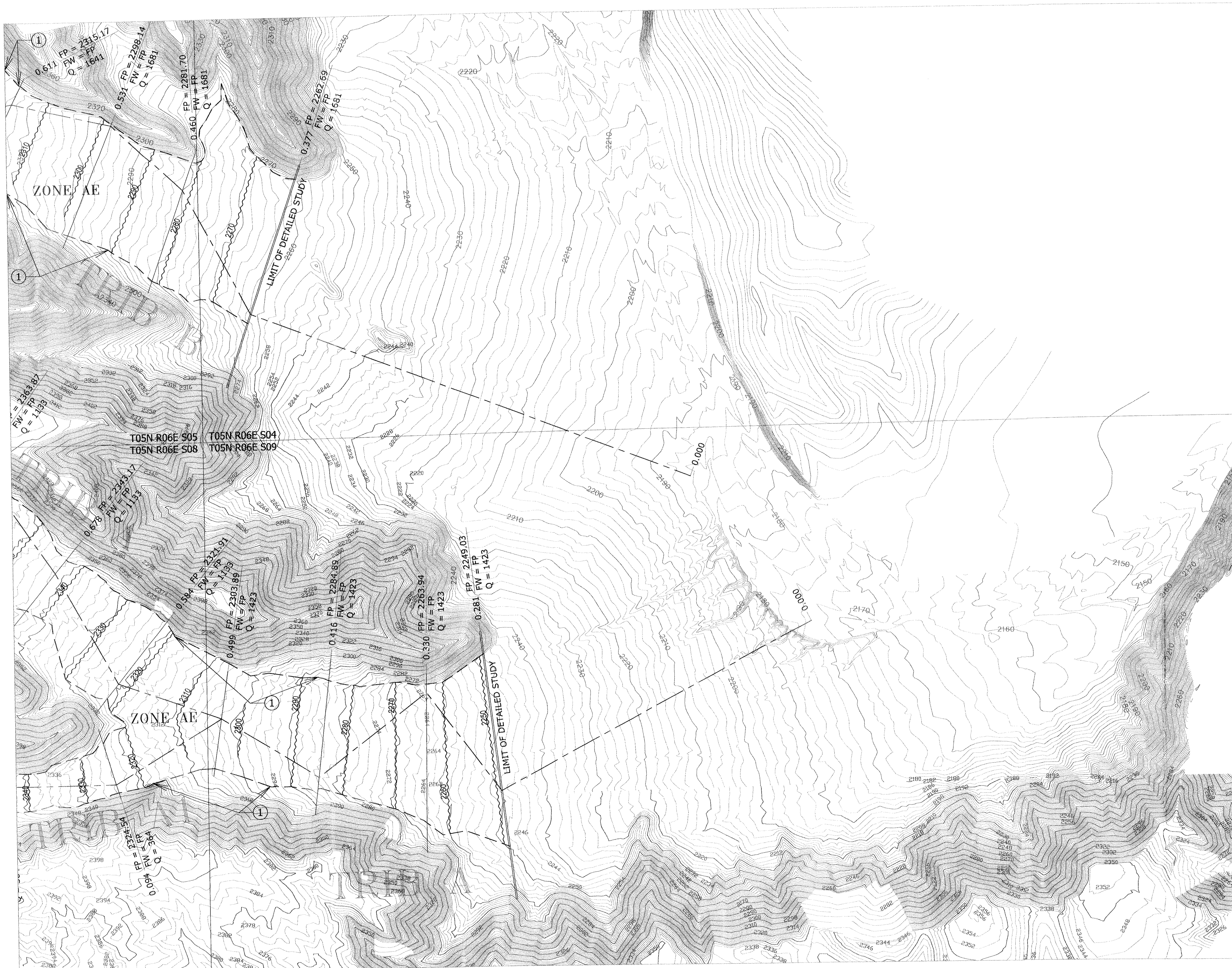
MARICOPA COUNTY

Not to Scale

SHEET INDEX MAP

NOT TO SCALE

BASEMAP SOURCE: USGS



200' 0' 200' 400'

SCALE: 1"= 200 FT
CONTOUR INTERVAL = 2 FT AND 10 FT

LEGEND

100-YR FLOODPLAIN BOUNDARY

FLOODWAY BOUNDARY

HYDRAULIC BASE LINE AT CROSS SECTION STATION 10,000

CROSS SECTION CALLOUT — 0.281 FP = 2249.03 FW = FP Q = 1423 (CROSS SECTION RIVER MILE DESIGNATION; FLOODPLAIN WATER SURFACE ELEVATION; ENCROACHED WATER SURFACE ELEVATION; 100 YEAR DISCHARGE)

BASE FLOOD ELEVATIONS — 2250

ZONE DESIGNATIONS — ZONE A AND AE

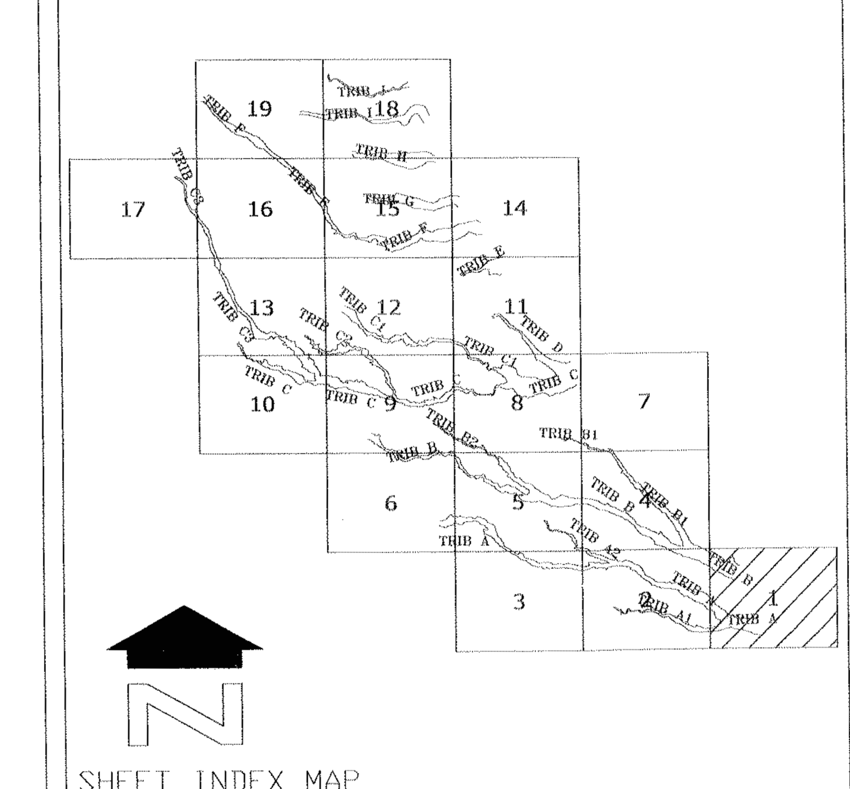
NOTES

1– THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS NOTED OTHERWISE.

2– VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). NGVD29 = NAVD88 – 2.05

KEY NOTE

(1) ENGINEERING JUDGMENT USED TO DELINEATE THE FLOODPLAIN/FLOODWAY BOUNDARY IN THIS AREA.



NO.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

CAMP CREEK TRIBUTARIES

FLOOD DELINEATION STUDY

CONTRACT NO. F.C.D. 2004–C023

Registered Professional Engineer (Civil) CERTIFICATE NO. 21699 PHILIP O. LOWE Date Signed 4/26/07 ARIZONA, U.S.A.

ASPEN CONSULTING ENGINEERS

	BY	DATE
DESIGN	JCS	02/06/07
DESIGN CHK.	POL	02/06/07
PLANS	JCS	02/06/07
PLANS CHK.	POL	02/06/07

SHEET 1 OF 19

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS FOR 1 INCH = 200 FEET HORIZONTAL SCALE AND 2 AND 10 FOOT CONTOUR INTERVALS.

AERIAL MAPPING PROVIDED BY COOPER AERIAL, WILSON AND COMPANY, AND LANDATA AIRBORNE SYSTEMS.

GROUND CONTROL SURVEY DATA PROVIDED BY FLOOD CONTROL DISTRICT OF MARICOPA COUNTY.

LEGEND

100-YR FLOODPLAIN BOUNDARY

FLOODWAY BOUNDARY

HYDRAULIC BASE LINE AT CROSS SECTION STATION 10,000

CROSS SECTION CALLOUT — 0.281 (CROSS SECTION RIVER MILE DESIGNATION) — FP = 2249.03 (FLOODPLAIN WATER SURFACE ELEVATION), FW = FP (ENCROACHED WATER SURFACE ELEVATION), Q = 1423 (100 YEAR DISCHARGE)

BASE FLOOD ELEVATIONS — 2250

ZONE DESIGNATIONS — ZONE A AND AE

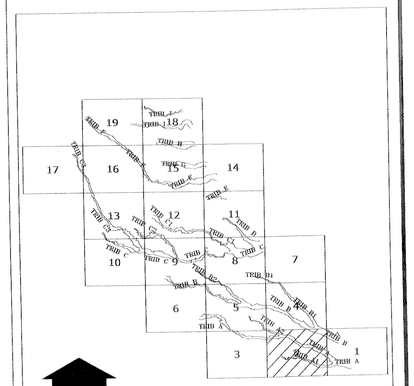
NOTES

1– THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS NOTED OTHERWISE.

2– VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). NGVD29 = NAVD88 – 2.05

KEY NOTE

(1) ENGINEERING JUDGMENT USED TO DELINEATE THE FLOODPLAIN/FLOODWAY BOUNDARY IN THIS AREA.



SHEET INDEX MAP

NO.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

CAMP CREEK TRIBUTARIES

FLOOD DELINEATION STUDY

CONTRACT NO. F.C.D. 2004-C023

Registered Professional Engineer (Civil) CERTIFICATE NO. 21699 PHILIP O. LOWE Date Signed 1/26/07 ARIZONA, U.S.A.

ASPEN CONSULTING ENGINEERS

	BY	DATE
DESIGN	JCS	02/06/07
DESIGN CHK.	POL	02/06/07
PLANS	JCS	02/06/07
PLANS CHK.	POL	02/06/07

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS FOR 1 INCH = 200 FEET HORIZONTAL SCALE AND 2 FOOT CONTOUR INTERVALS.

AERIAL MAPPING PROVIDED BY COOPER AERIAL, WILSON AND COMPANY, AND LANDATA AIRBORNE SYSTEMS.

GROUND CONTROL SURVEY DATA PROVIDED BY FLOOD CONTROL DISTRICT OF MARICOPA COUNTY.

200' 0' 200' 400'

SCALE: 1"= 200 FT
CONTOUR INTERVAL = 2 FT

LEGEND

100-YR FLOODPLAIN BOUNDARY

FLOODWAY BOUNDARY

HYDRAULIC BASE LINE AT CROSS SECTION STATION 10,000

CROSS SECTION CALLOUT — 0.281 (CROSS SECTION RIVER MILE DESIGNATION); FP = 2249.03 (FLOODPLAIN WATER SURFACE ELEVATION); FW = FP (ENCROACHED WATER SURFACE ELEVATION); Q = 1423 (100 YEAR DISCHARGE)

BASE FLOOD ELEVATIONS — 2250

ZONE DESIGNATIONS — ZONE A AND AE

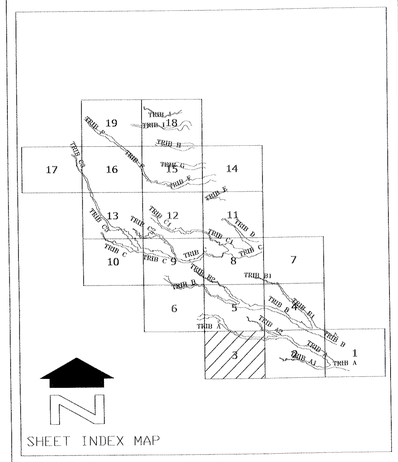
NOTES

1- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS NOTED OTHERWISE.

2- VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). NGVD29 = NAVD88 - 2.05

KEY NOTE

(1) ENGINEERING JUDGMENT USED TO DELINEATE THE FLOODPLAIN/FLOODWAY BOUNDARY IN THIS AREA.



NO.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

CAMP CREEK TRIBUTARIES

FLOOD DELINEATION STUDY

CONTRACT NO. F.C.D. 2004-C023

ASPEN CONSULTING ENGINEERS

	BY	DATE
DESIGN	JCS	02/06/07
DESIGN CHK.	POL	02/06/07
PLANS	JCS	02/06/07
PLANS CHK.	POL	02/06/07

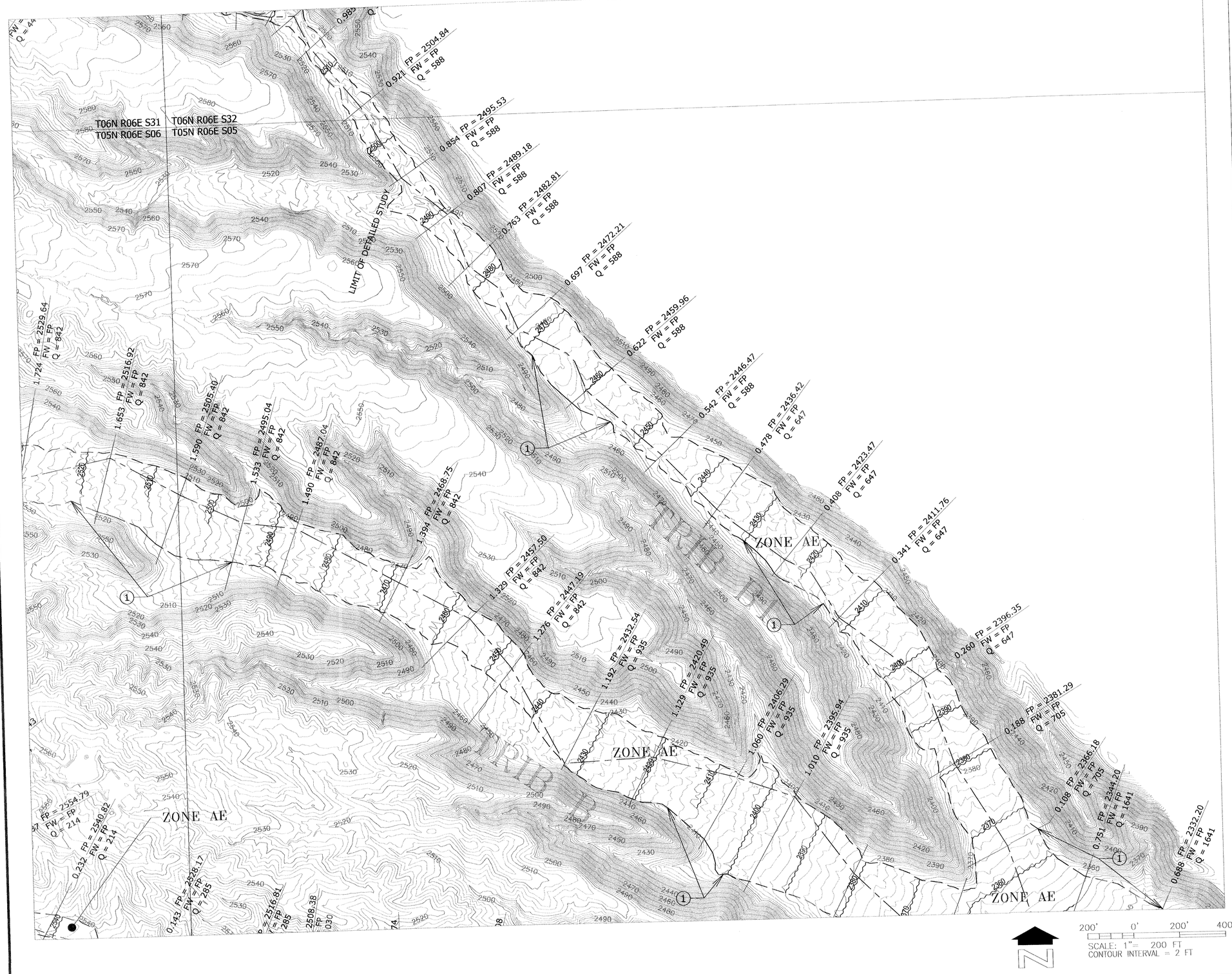
REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 21699 PHILIP O. LOWE Date Signed 1/30/07 ARIZONA, U.S.A.

SHEET 3 OF 19

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS FOR 1 INCH = 200 FEET HORIZONTAL SCALE AND 2 FOOT CONTOUR INTERVALS.

AERIAL MAPPING PROVIDED BY COOPER AERIAL, WILSON AND COMPANY, AND LANDATA AIRBORNE SYSTEMS.

GROUND CONTROL SURVEY DATA PROVIDED BY FLOOD CONTROL DISTRICT OF MARICOPA COUNTY.



200' 0' 200' 400'

SCALE: 1" = 200 FT
CONTOUR INTERVAL = 2 FT

LEGEND

100-YR FLOODPLAIN BOUNDARY

FLOODWAY BOUNDARY

HYDRAULIC BASE LINE AT CROSS SECTION STATION 10,000

CROSS SECTION CALLOUT — CROSS SECTION RIVER MILE DESIGNATION: 0.281 — FLOODPLAIN WATER SURFACE ELEVATION: FP = 2249.03 — ENCROACHED WATER SURFACE ELEVATION: FW = FP — 100 YEAR DISCHARGE: Q = 1423

BASE FLOOD ELEVATIONS — 2250

ZONE DESIGNATIONS — ZONE A AND AE

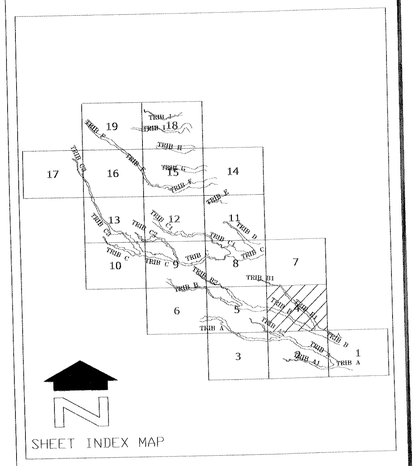
NOTES

1- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS NOTED OTHERWISE.

2- VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). NGVD29 = NAVD88 - 2.05

KEY NOTE

(1) ENGINEERING JUDGMENT USED TO DELINEATE THE FLOODPLAIN/FLOODWAY BOUNDARY IN THIS AREA.



NO.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

CAMP CREEK TRIBUTARIES

FLOOD DELINEATION STUDY

CONTRACT NO. F.C.D. 2004-C023

ASPEN CONSULTING ENGINEERS

Registered Professional Engineer (Civil) CERTIFICATE NO. 21699 PHILIP O. LOWE Date Signed 11/20/07 ARIZONA, U.S.A.

	BY	DATE
DESIGN	JCS	02/06/07
DESIGN CHK.	POL	02/06/07
PLANS	JCS	02/06/07
PLANS CHK.	POL	02/06/07

SHEET 4 OF 19

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS FOR 1 INCH = 200 FEET HORIZONTAL SCALE AND 2 FOOT CONTOUR INTERVALS.

AERIAL MAPPING PROVIDED BY COOPER AERIAL, WILSON AND COMPANY, AND LANDATA AIRBORNE SYSTEMS.

GROUND CONTROL SURVEY DATA PROVIDED BY FLOOD CONTROL DISTRICT OF MARICOPA COUNTY.

LEGEND

100-YR FLOODPLAIN BOUNDARY

FLOODWAY BOUNDARY

HYDRAULIC BASE LINE AT CROSS SECTION STATION 10,000

CROSS SECTION CALLOUT — 0.281 (CROSS SECTION RIVER MILE DESIGNATION); FP = 2249.03 (FLOODPLAIN WATER SURFACE ELEVATION); FW = FP (ENCROACHED WATER SURFACE ELEVATION); Q = 1423 (100 YEAR DISCHARGE)

BASE FLOOD ELEVATIONS — 2250

ZONE DESIGNATIONS — ZONE A AND AE

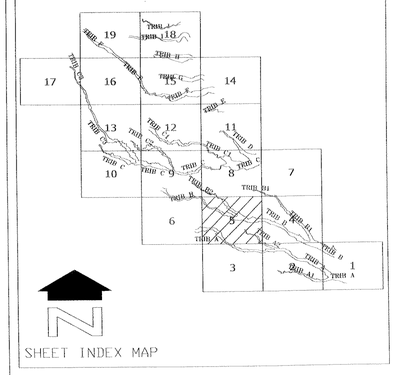
NOTES

1- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS NOTED OTHERWISE.

2- VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). NGVD29 = NAVD88 - 2.05

KEY NOTE

(1) ENGINEERING JUDGMENT USED TO DELINEATE THE FLOODPLAIN/FLOODWAY BOUNDARY IN THIS AREA.



NO.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

CAMP CREEK TRIBUTARIES

FLOOD DELINEATION STUDY

CONTRACT NO. F.C.D. 2004-C023

Registered Professional Engineer (Civil) 21699 PHILIP O. LOWE Date Signed 2/6/07 ARIZONA, U.S.A.

ASPEN CONSULTING ENGINEERS

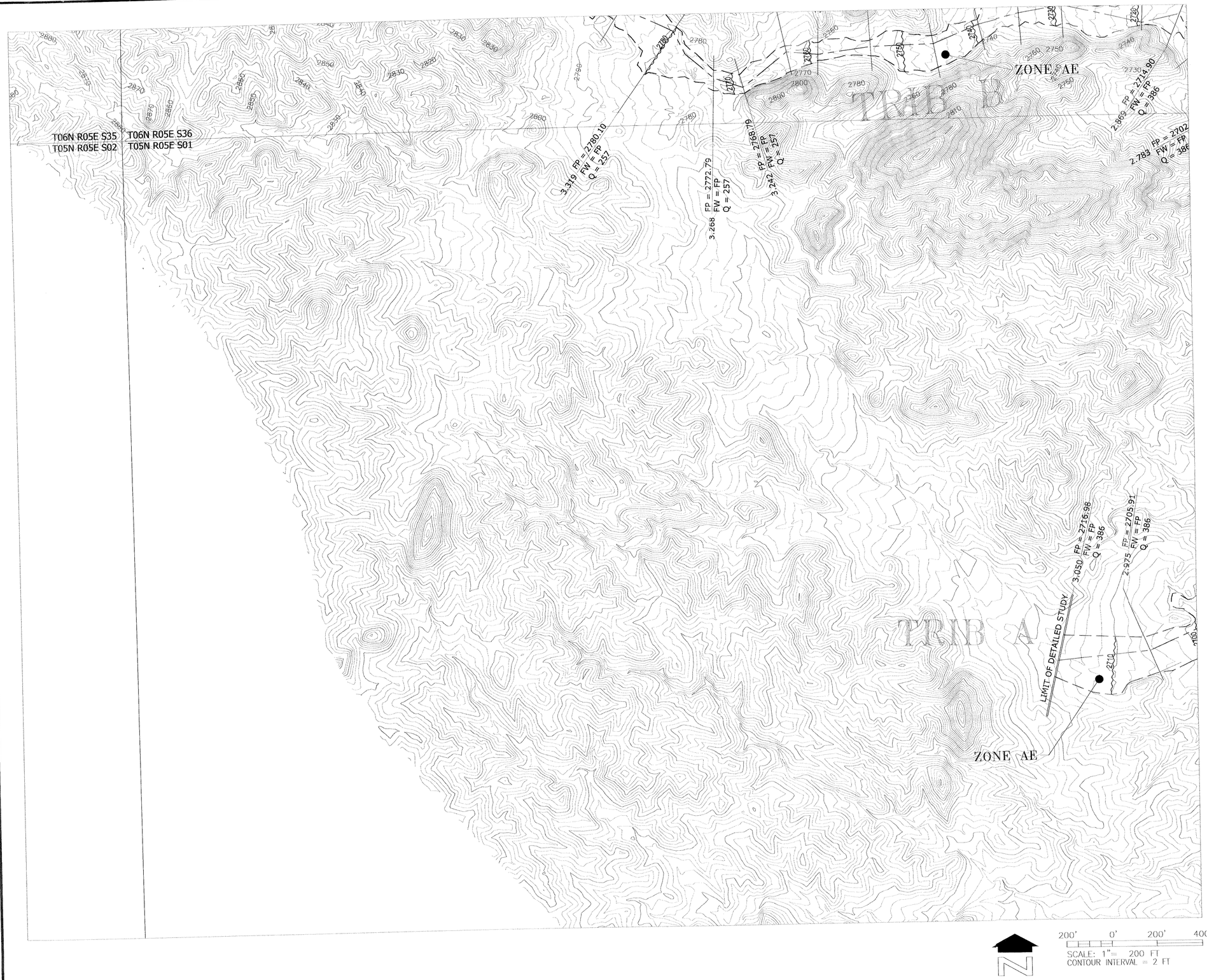
	BY	DATE
DESIGN	JCS	02/06/07
DESIGN CHK.	POL	02/06/07
PLANS	JCS	02/06/07
PLANS CHK.	POL	02/06/07

SHEET 5 OF 19

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS FOR 1 INCH = 200 FEET HORIZONTAL SCALE AND 2 FOOT CONTOUR INTERVALS.

AERIAL MAPPING PROVIDED BY COOPER AERIAL, WILSON AND COMPANY, AND LANDATA AIRBORNE SYSTEMS.

GROUND CONTROL SURVEY DATA PROVIDED BY FLOOD CONTROL DISTRICT OF MARICOPA COUNTY.



LEGEND

100-YR FLOODPLAIN BOUNDARY

FLOODWAY BOUNDARY

HYDRAULIC BASE LINE AT CROSS SECTION STATION 10,000

CROSS SECTION CALLOUT — 0.281 (CROSS SECTION RIVER MILE DESIGNATION) — FP = 2249.03 (FLOODPLAIN WATER SURFACE ELEVATION) — FW = FP (ENCROACHED WATER SURFACE ELEVATION) — Q = 1423 (100 YEAR DISCHARGE)

BASE FLOOD ELEVATIONS — 2250

ZONE DESIGNATIONS — ZONE A AND AE

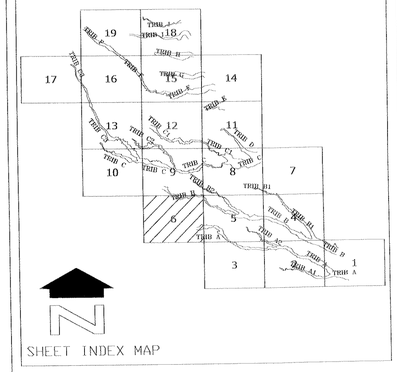
NOTES

1- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS NOTED OTHERWISE.

2- VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). NGVD29 = NAVD88 - 2.05

KEY NOTE

(1) ENGINEERING JUDGMENT USED TO DELINEATE THE FLOODPLAIN/FLOODWAY BOUNDARY IN THIS AREA.



NO.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

CAMP CREEK TRIBUTARIES

FLOOD DELINEATION STUDY

CONTRACT NO. F.C.D. 2004-C023

Registered Professional Engineer (Civil) CERTIFICATE NO. 21699 PHILIP O. LOWE Date Signed 4/20/07 ARIZONA, U.S.A.

ASPEN CONSULTING ENGINEERS

	BY	DATE
DESIGN	JCS	02/06/07
DESIGN CHK.	POL	02/06/07
PLANS	JCS	02/06/07
PLANS CHK.	POL	02/06/07

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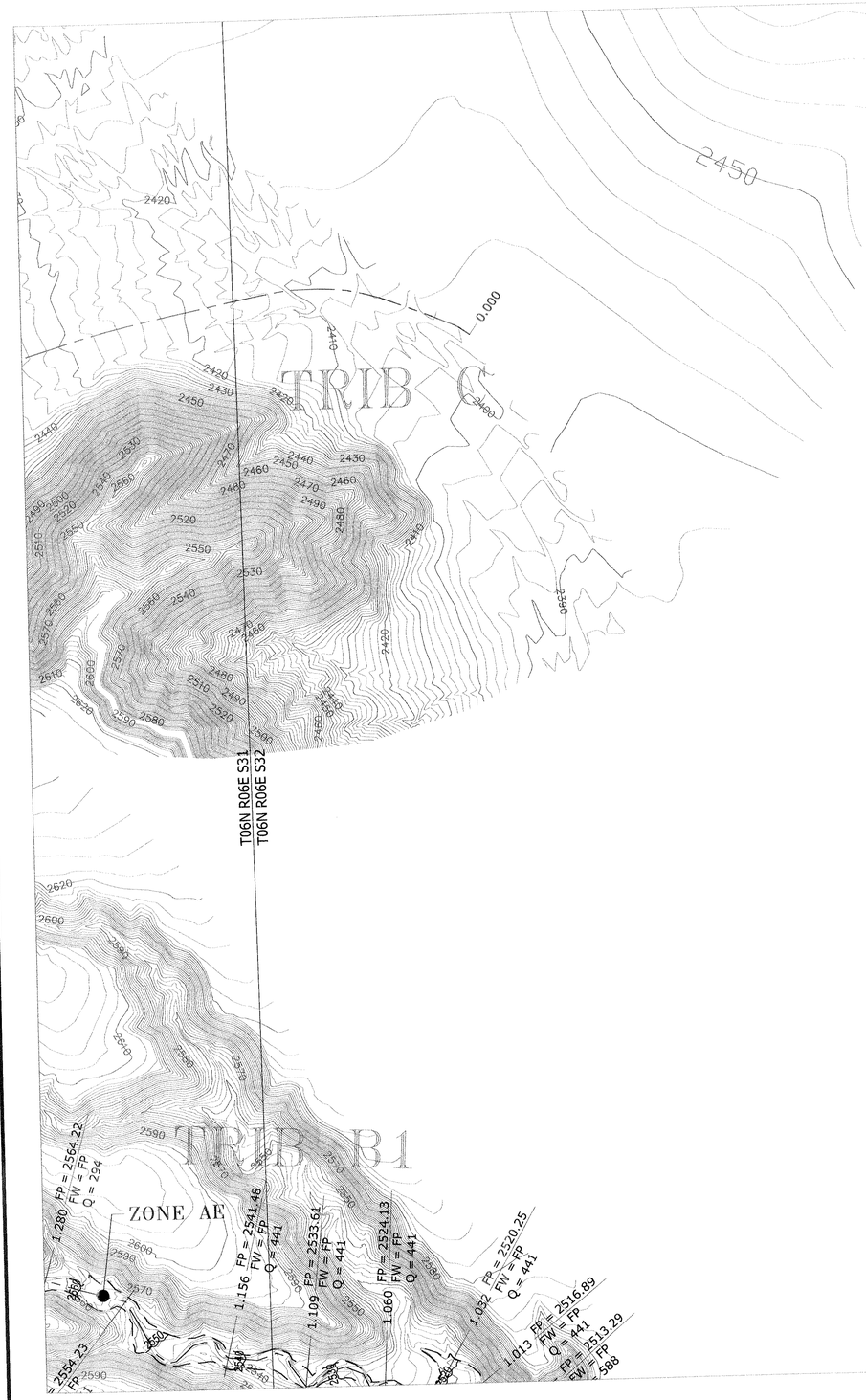
AERIAL MAPPING PROVIDED BY COOPER AERIAL, WILSON AND COMPANY, AND LANDATA AIRBORNE SYSTEMS.

GROUND CONTROL SURVEY DATA PROVIDED BY FLOOD CONTROL DISTRICT OF MARICOPA COUNTY.



LEGEND

100-YR FLOODPLAIN BOUNDARY

FLOODWAY BOUNDARY

HYDRAULIC BASE LINE AT CROSS SECTION STATION 10,000

CROSS SECTION CALLOUT — 0.281 (CROSS SECTION RIVER MILE DESIGNATION) — FP = 2249.03 (FLOODPLAIN WATER SURFACE ELEVATION) — FW = FP (ENCROACHED WATER SURFACE ELEVATION) — Q = 1423 (100 YEAR DISCHARGE)

BASE FLOOD ELEVATIONS — 2250

ZONE DESIGNATIONS — ZONE A AND AE

NOTES

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KEY NOTE

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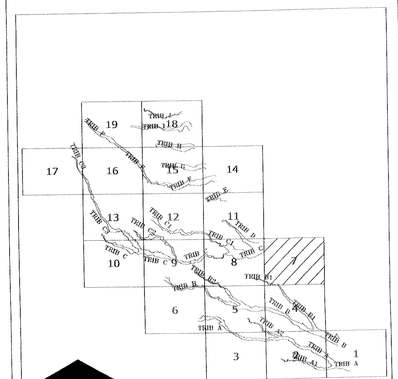


SHEET INDEX MAP

NO.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

CAMP CREEK TRIBUTARIES

FLOOD DELINEATION STUDY

CONTRACT NO. F.C.D. 2004-C023

Registered Professional Engineer (Civil) CERTIFICATE NO. 21699 PHILIP O. LOWE Date Signed 4/26/06 ARIZONA, U.S.A.

ASPEN CONSULTING ENGINEERS

	BY	DATE
DESIGN	JCS	02/06/07
DESIGN CHK.	POL	02/06/07
PLANS	JCS	02/06/07
PLANS CHK.	POL	02/06/07

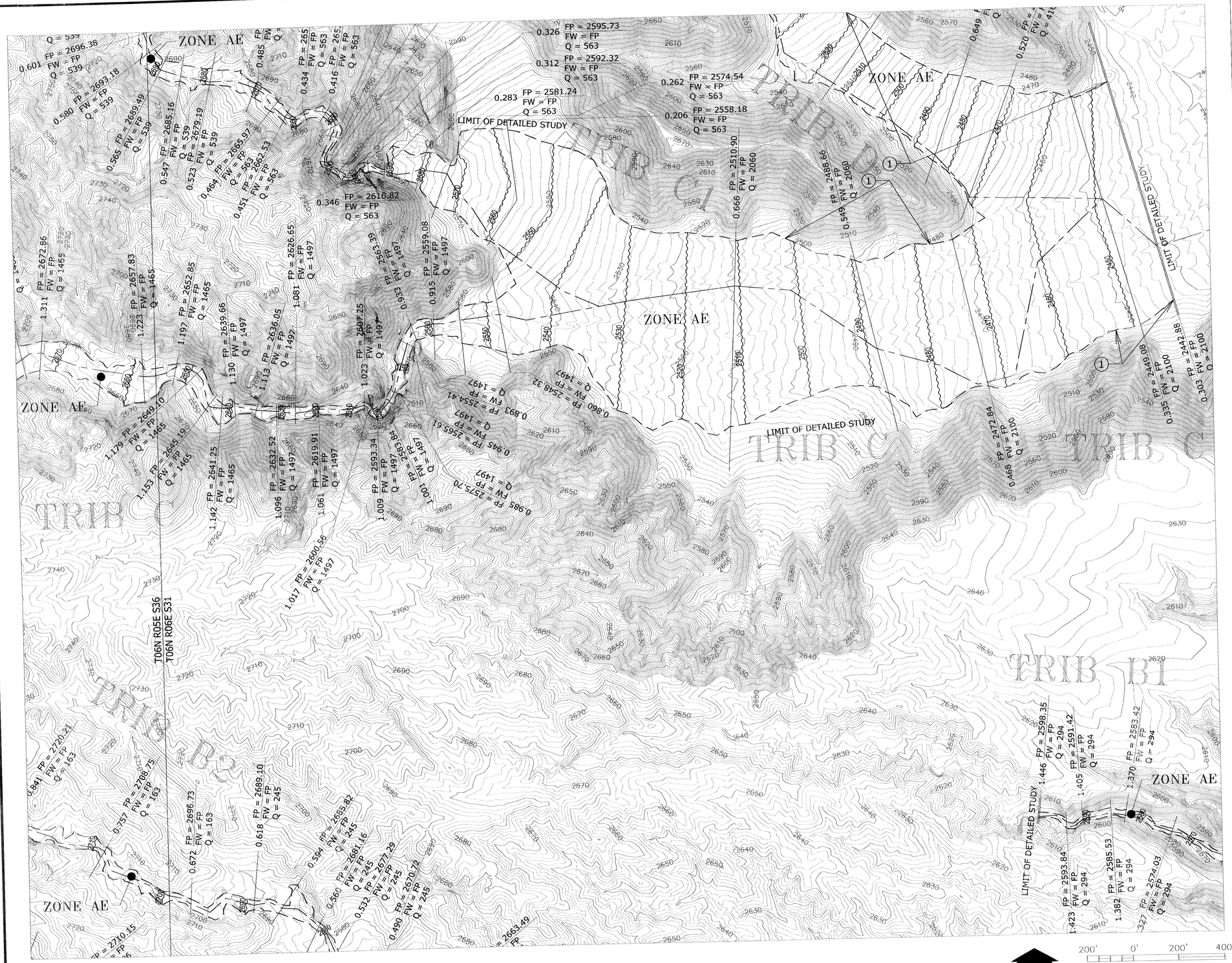
200' 0' 200' 400'

SCALE: 1"= 200 FT
CONTOUR INTERVAL = 2 FT AND 10 FT

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS FOR 1 INCH = 200 FEET HORIZONTAL SCALE AND 2 AND 10 FOOT CONTOUR INTERVALS.

AERIAL MAPPING PROVIDED BY COOPER AERIAL, WILSON AND COMPANY, AND LANDATA AIRBORNE SYSTEMS.

GROUND CONTROL SURVEY DATA PROVIDED BY FLOOD CONTROL DISTRICT OF MARICOPA COUNTY.



LEGEND

100-YR FLOODPLAIN BOUNDARY

FLOODWAY BOUNDARY

HYDRAULIC BASE LINE AT CROSS SECTION STATION 10,000

CROSS SECTION CALLOUT — 0.281 (CROSS SECTION RIVER MILE DESIGNATION); FP = 2249.03 (FLOODPLAIN WATER SURFACE ELEVATION); FW = FP (ENCROACHED WATER SURFACE ELEVATION); Q = 1423 (100 YEAR DISCHARGE)

BASE FLOOD ELEVATIONS — 2250

ZONE DESIGNATIONS — ZONE A AND AE

NOTES

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KEY NOTE

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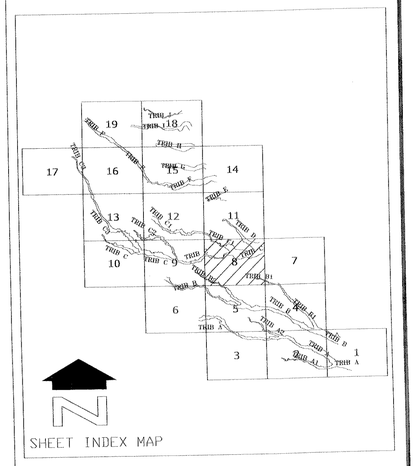

NO.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

CAMP CREEK TRIBUTARIES

FLOOD DELINEATION STUDY

CONTRACT NO. F.C.D. 2004-C023

ASPEN CONSULTING ENGINEERS

Registered Professional Engineer (Civil) 21699 PHILIP O. LOWE Date Signed 11-6-07 ARIZONA, U.S.A.

	BY	DATE
DESIGN	JCS	02/06/07
DESIGN CHK.	POL	02/06/07
PLANS	JCS	02/06/07
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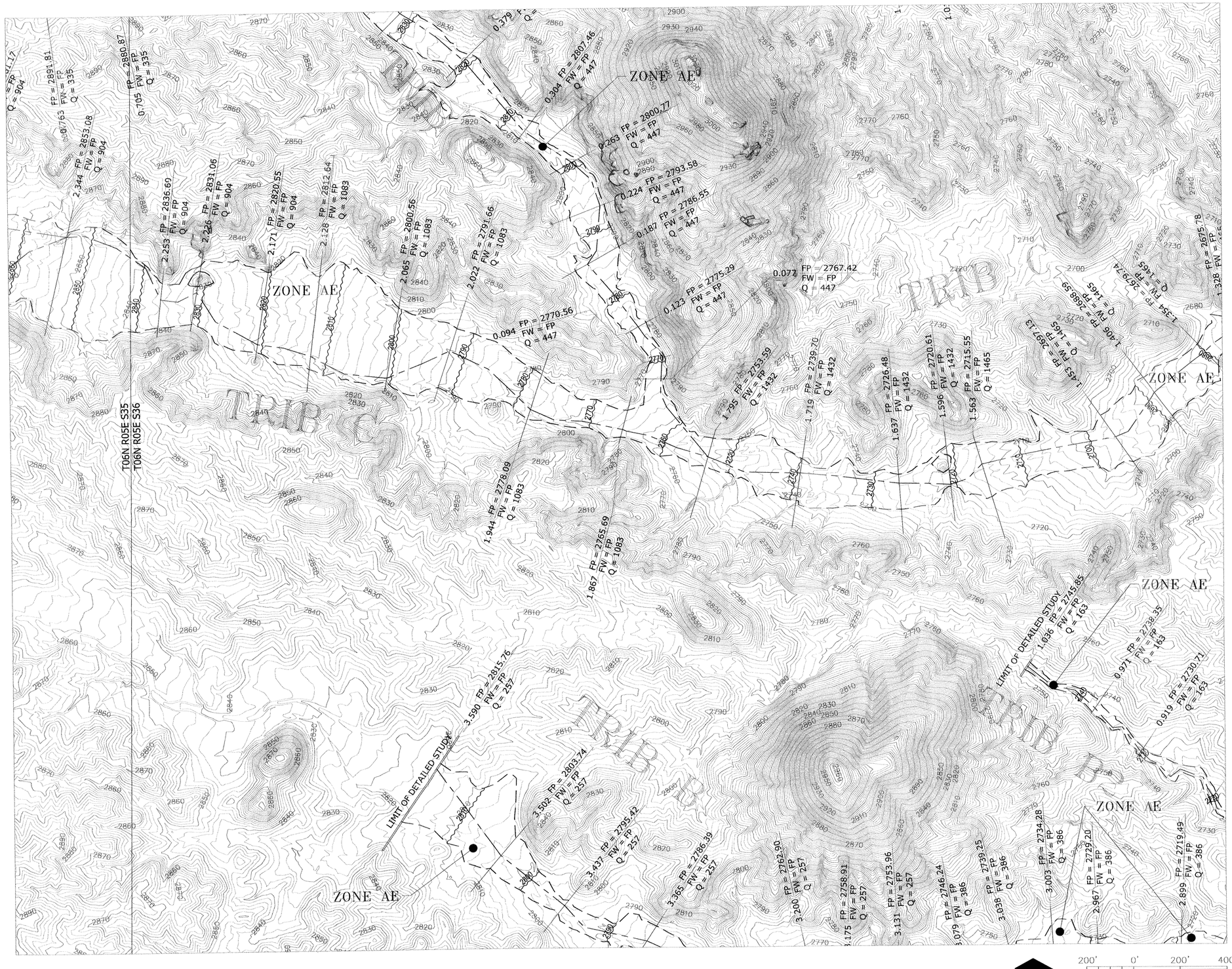
AERIAL MAPPING PROVIDED BY COOPER AERIAL, WILSON AND COMPANY, AND LANDATA AIRBORNE SYSTEMS.

GROUND CONTROL SURVEY DATA PROVIDED BY FLOOD CONTROL DISTRICT OF MARICOPA COUNTY.



200' 0' 200' 400'

SCALE: 1" = 200 FT
CONTOUR INTERVAL = 2 FT

LEGEND

100-YR FLOODPLAIN BOUNDARY

FLOODWAY BOUNDARY

HYDRAULIC BASE LINE AT CROSS SECTION STATION 10,000

CROSS SECTION CALLOUT — 0.281 (CROSS SECTION RIVER MILE DESIGNATION); FP = 2249.03 (FLOODPLAIN WATER SURFACE ELEVATION); FW = FP (ENCROACHED WATER SURFACE ELEVATION); Q = 1423 (100 YEAR DISCHARGE)

BASE FLOOD ELEVATIONS — 2250

ZONE DESIGNATIONS — ZONE A AND AE

NOTES

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KEY NOTE

(1) ENGINEERING JUDGMENT USED TO DELINEATE THE FLOODPLAIN/FLOODWAY BOUNDARY IN THIS AREA.

SHEET INDEX MAP

NO.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

CAMP CREEK TRIBUTARIES

FLOOD DELINEATION STUDY

CONTRACT NO. F.C.D. 2004-C023

Registered Professional Engineer (Civil) CERTIFICATE NO. 21699 PHILIP O. LOWE Date Signed 4/4/07 ARIZONA, U.S.A.

ASPEN CONSULTING ENGINEERS

	BY	DATE
DESIGN	JCS	02/06/07
DESIGN CHK.	POL	02/06/07
PLANS	JCS	02/06/07
PLANS CHK.	POL	02/06/07

SHEET 9 OF 19

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS FOR 1 INCH = 200 FEET HORIZONTAL SCALE AND 2 FOOT CONTOUR INTERVALS.

AERIAL MAPPING PROVIDED BY COOPER AERIAL, WILSON AND COMPANY, AND LANDATA AIRBORNE SYSTEMS.

GROUND CONTROL SURVEY DATA PROVIDED BY FLOOD CONTROL DISTRICT OF MARICOPA COUNTY.

LEGEND

100-YR FLOODPLAIN BOUNDARY

FLOODWAY BOUNDARY

HYDRAULIC BASE LINE AT CROSS SECTION STATION 10,000

CROSS SECTION CALLOUT — CROSS SECTION RIVER MILE DESIGNATION: 0.281 — FLOODPLAIN WATER SURFACE ELEVATION: FP = 2249.03; ENCROACHED WATER SURFACE ELEVATION: FW = FP; 100 YEAR DISCHARGE: Q = 1423

BASE FLOOD ELEVATIONS — 2250

ZONE DESIGNATIONS — ZONE A AND AE

NOTES

1- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS NOTED OTHERWISE.

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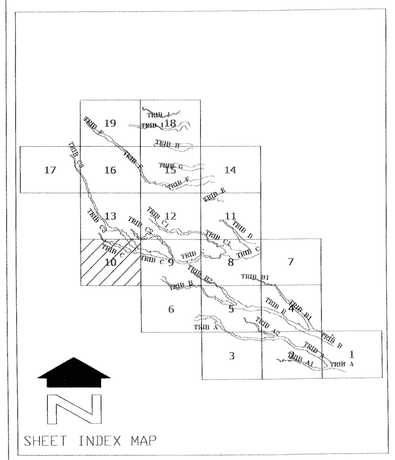
KEY NOTE

(1) ENGINEERING JUDGMENT USED TO DELINEATE THE FLOODPLAIN/FLOODWAY BOUNDARY IN THIS AREA.



NO.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

CAMP CREEK TRIBUTARIES FLOOD DELINEATION STUDY

CONTRACT NO. F.C.D. 2004-C023

200' 0' 200' 400'

SCALE: 1"= 200 FT

CONTOUR INTERVAL = 2 FT

Registered Professional Engineer (Civil) CERTIFICATE NO. 21699 PHILIP O. LOWE Date Signed 11/26/07 ARIZONA, U.S.A.

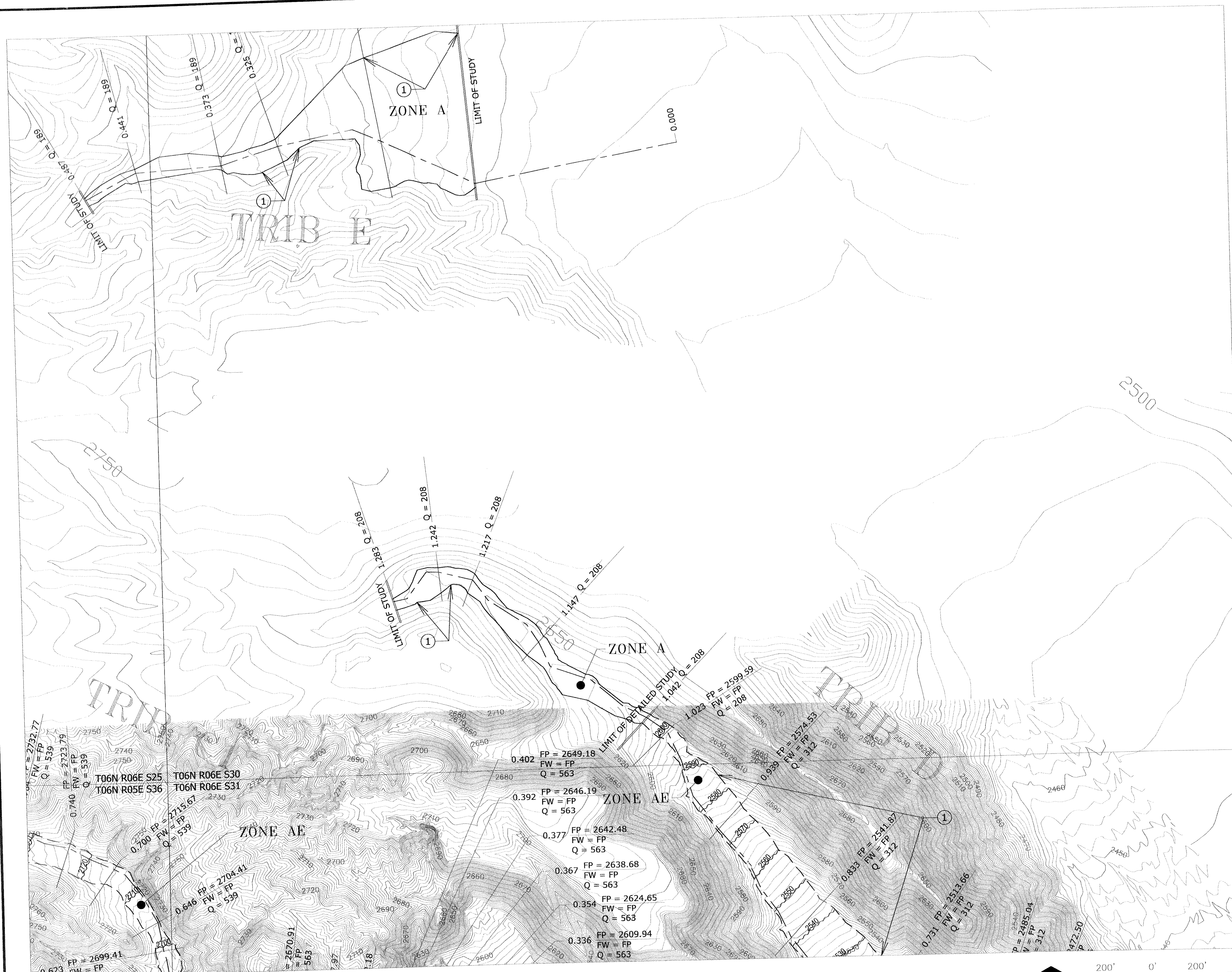
ASPEN CONSULTING ENGINEERS

	BY	DATE
DESIGN	JCS	02/06/07
DESIGN CHK.	POL	02/06/07
PLANS	JCS	02/06/07
PLANS CHK.	POL	02/06/07

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS FOR 1 INCH = 200 FEET HORIZONTAL SCALE AND 2 FOOT CONTOUR INTERVALS.

AERIAL MAPPING PROVIDED BY COOPER AERIAL, WILSON AND COMPANY, AND LANDATA AIRBORNE SYSTEMS.

GROUND CONTROL SURVEY DATA PROVIDED BY FLOOD CONTROL DISTRICT OF MARICOPA COUNTY.



200' 0' 200' 400'
SCALE: 1"= 200 FT
CONTOUR INTERVAL = 2 FT AND 10 FT

LEGEND

100-YR FLOODPLAIN BOUNDARY

FLOODWAY BOUNDARY

HYDRAULIC BASE LINE AT CROSS SECTION STATION 10,000

CROSS SECTION CALLOUT — 0.281 FP = 2249.03 FW = FP Q = 1423 (CROSS SECTION RIVER MILE DESIGNATION; FLOODPLAIN WATER SURFACE ELEVATION; ENCROACHED WATER SURFACE ELEVATION; 100 YEAR DISCHARGE)

BASE FLOOD ELEVATIONS — 2250

ZONE DESIGNATIONS — ZONE A AND AE

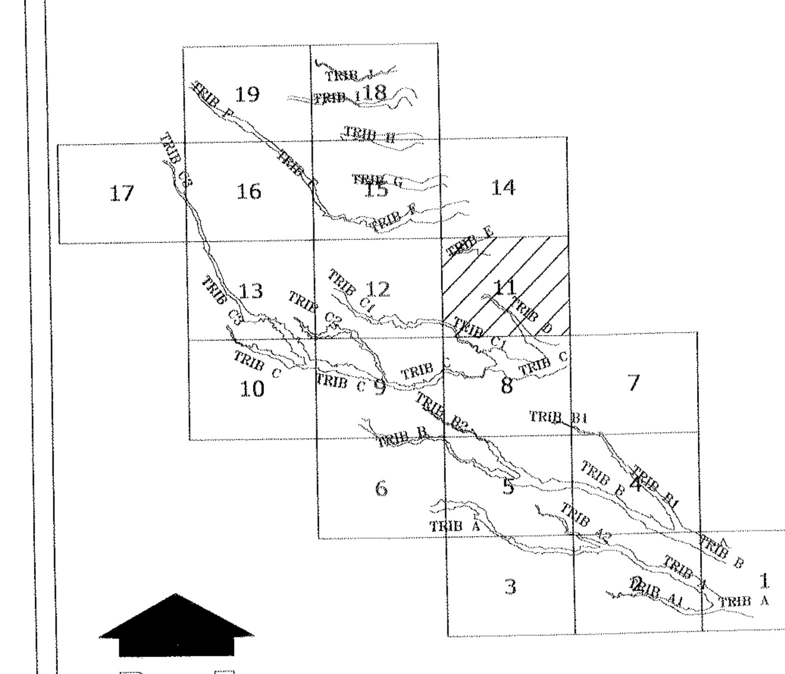
NOTES

1– THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS NOTED OTHERWISE.

2– VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). NGVD29 = NAVD88 – 2.05

KEY NOTE

(1) ENGINEERING JUDGMENT USED TO DELINEATE THE FLOODPLAIN BOUNDARY IN THIS AREA.



SHEET INDEX MAP

NO.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

CAMP CREEK TRIBUTARIES

FLOOD DELINEATION STUDY

CONTRACT NO. F.C.D. 2004–C023

ASPEN CONSULTING ENGINEERS

Registered Professional Engineer (Civil) Certificate No. 21699 PHILIP O. LOWE ARIZONA, U.S.A. Date Signed 4/10/07

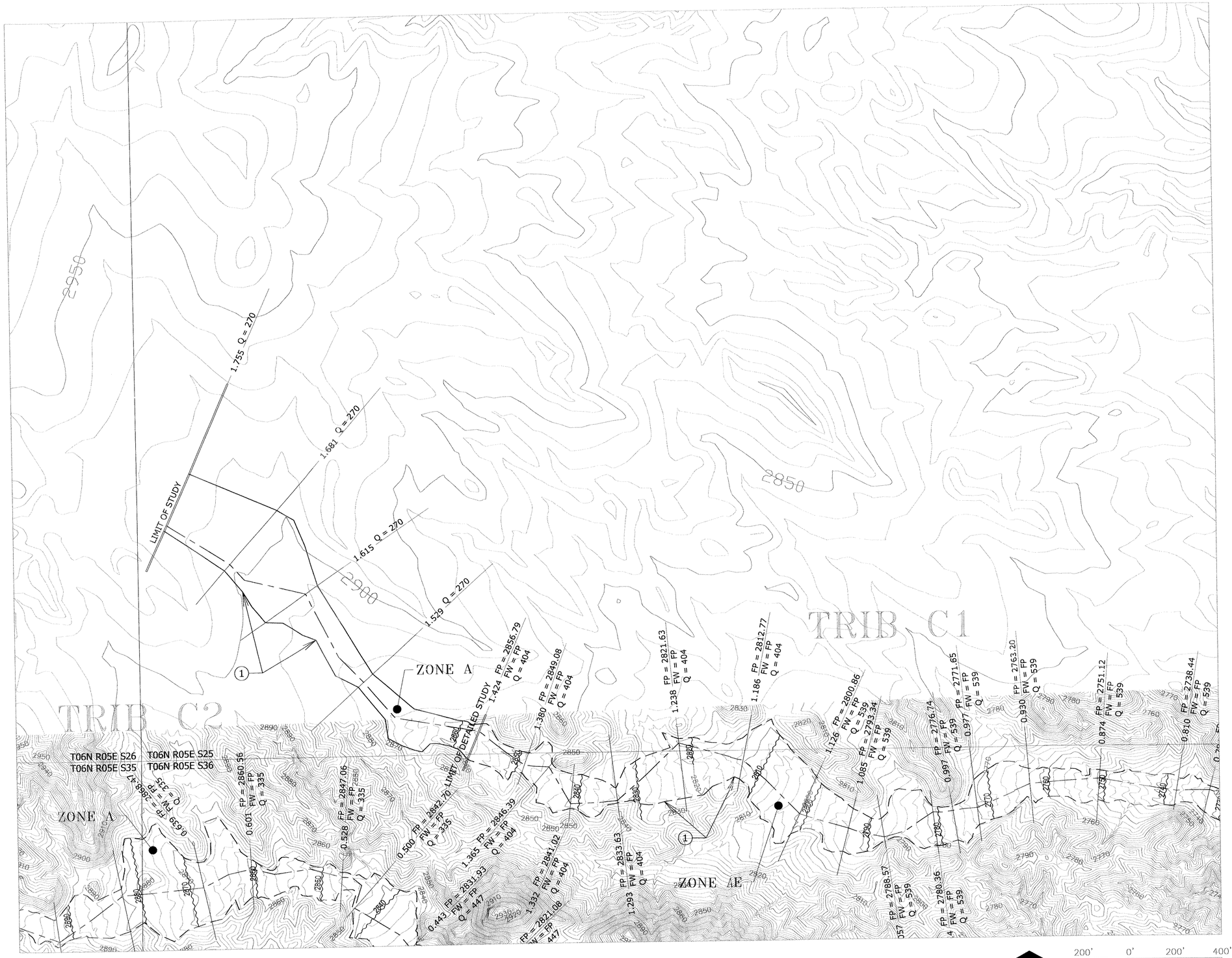
	BY	DATE
DESIGN	JCS	02/06/07
DESIGN CHK.	POL	02/06/07
PLANS	JCS	02/06/07
PLANS CHK.	POL	02/06/07

SHEET 11 OF 19

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS FOR 1 INCH = 200 FEET HORIZONTAL SCALE AND 2 AND 10 FOOT CONTOUR INTERVALS.

AERIAL MAPPING PROVIDED BY COOPER AERIAL, WILSON AND COMPANY, AND LANDATA AIRBORNE SYSTEMS.

GROUND CONTROL SURVEY DATA PROVIDED BY FLOOD CONTROL DISTRICT OF MARICOPA COUNTY.



LEGEND

100-YR FLOODPLAIN BOUNDARY

FLOODWAY BOUNDARY

HYDRAULIC BASE LINE AT CROSS SECTION STATION 10,000

CROSS SECTION CALLOUT — 0.281 (CROSS SECTION RIVER MILE DESIGNATION) — FP = 2249.03 (FLOODPLAIN WATER SURFACE ELEVATION) — FW = FP (ENCROACHED WATER SURFACE ELEVATION) — Q = 1423 (100 YEAR DISCHARGE)

BASE FLOOD ELEVATIONS — 2250

ZONE DESIGNATIONS — ZONE A AND AE

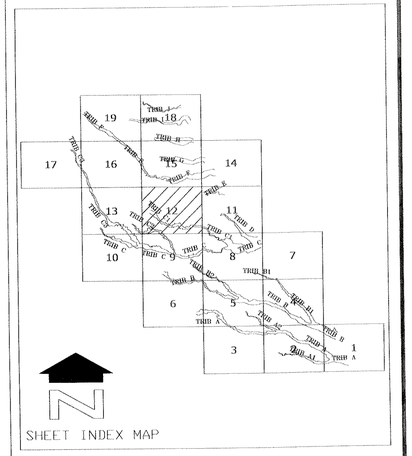
NOTES

1- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS NOTED OTHERWISE.

2- VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). NGVD29 = NAVD88 - 2.05

KEY NOTE

(1) ENGINEERING JUDGMENT USED TO DELINEATE THE FLOODPLAIN BOUNDARY IN THIS AREA.



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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

CAMP CREEK TRIBUTARIES

FLOOD DELINEATION STUDY

CONTRACT NO. F.C.D. 2004-C023

ASPEN CONSULTING ENGINEERS

Registered Professional Engineer (Civil) CERTIFICATE NO. 21699 PHILIP O. LOWE Date Signed 4/2/07 ARIZONA, U.S.A.

	BY	DATE
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PLANS	JCS	02/06/07
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AERIAL MAPPING PROVIDED BY COOPER AERIAL, WILSON AND COMPANY, AND LANDATA AIRBORNE SYSTEMS.

GROUND CONTROL SURVEY DATA PROVIDED BY FLOOD CONTROL DISTRICT OF MARICOPA COUNTY.

LEGEND

100-YR FLOODPLAIN BOUNDARY

FLOODWAY BOUNDARY

HYDRAULIC BASE LINE AT CROSS SECTION STATION 10,000

CROSS SECTION CALLOUT — 0.281 — CROSS SECTION RIVER MILE DESIGNATION; FP = 2249.03 — FLOODPLAIN WATER SURFACE ELEVATION; FW = FP — ENCROACHED WATER SURFACE ELEVATION; Q = 1423 — 100 YEAR DISCHARGE

BASE FLOOD ELEVATIONS — 2250

ZONE DESIGNATIONS — ZONE A AND AE

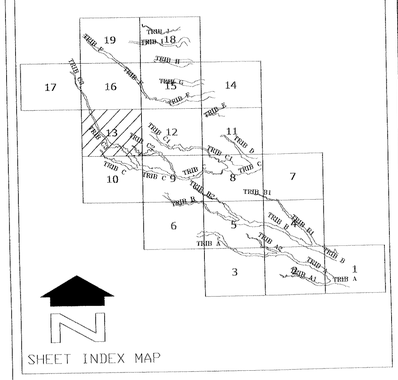
NOTES

1- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS NOTED OTHERWISE.

2- VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). NGVD29 = NAVD88 - 2.05

KEY NOTE

(1) ENGINEERING JUDGMENT USED TO DELINEATE THE FLOODPLAIN BOUNDARY IN THIS AREA.



SHEET INDEX MAP

NO.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

CAMP CREEK TRIBUTARIES FLOOD DELINEATION STUDY

CONTRACT NO. F.C.D. 2004-C023

Registered Professional Engineer (Civil) CERTIFICATE NO. 21699 PHILIP O. LOWE Date Signed 1/31/07 ARIZONA, U.S.A.

ASPEN CONSULTING ENGINEERS

	BY	DATE
DESIGN	JCS	02/06/07
DESIGN CHK.	POL	02/06/07
PLANS	JCS	02/06/07
PLANS CHK.	POL	02/06/07

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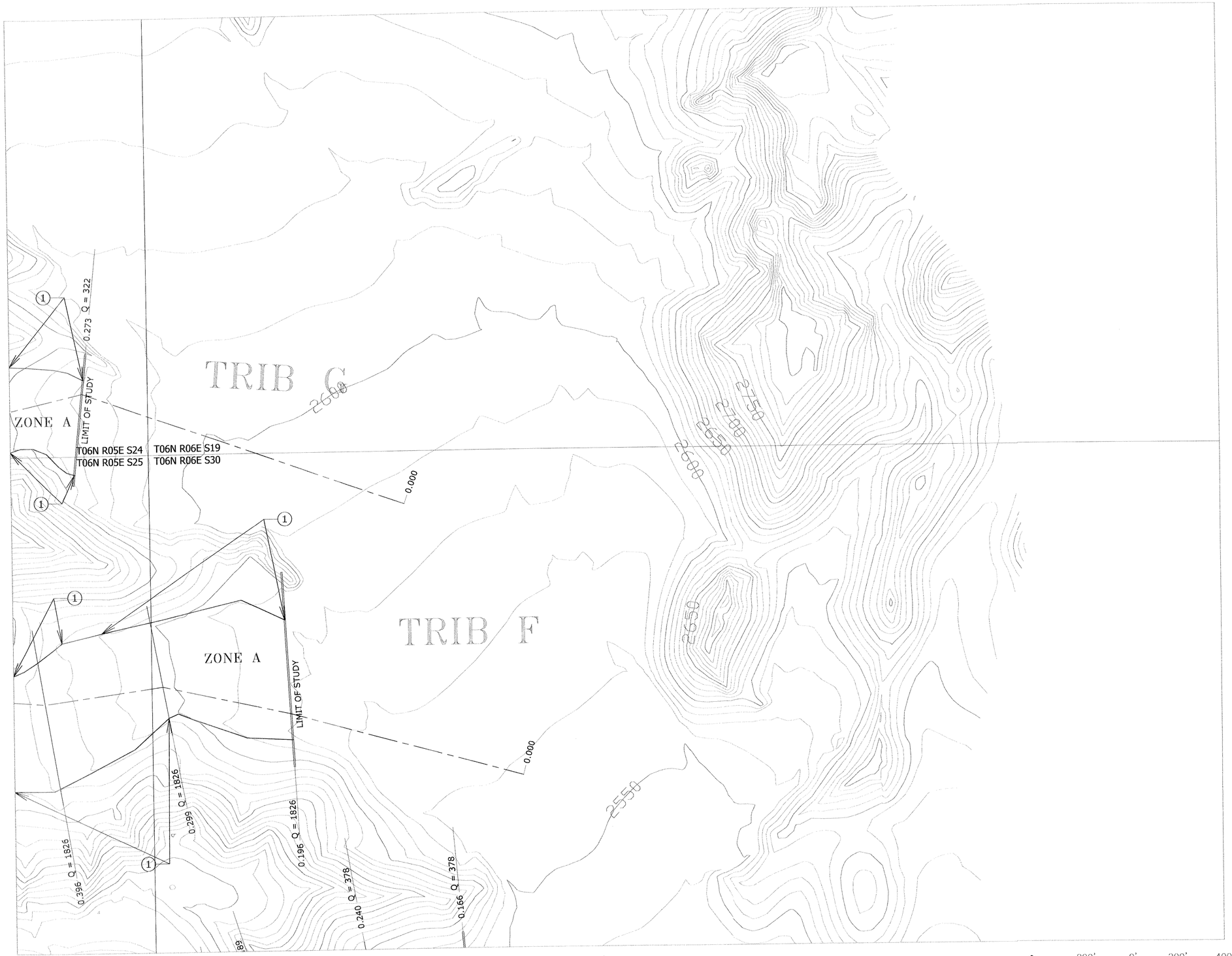
AERIAL MAPPING PROVIDED BY COOPER AERIAL, WILSON AND COMPANY, AND LANDATA AIRBORNE SYSTEMS.

GROUND CONTROL SURVEY DATA PROVIDED BY FLOOD CONTROL DISTRICT OF MARICOPA COUNTY.



LEGEND

100-YR FLOODPLAIN BOUNDARY

FLOODWAY BOUNDARY

HYDRAULIC BASE LINE AT CROSS SECTION STATION 10,000

CROSS SECTION CALLOUT — 0.281 — CROSS SECTION RIVER MILE DESIGNATION; FP = 2249.03 — FLOODPLAIN WATER SURFACE ELEVATION; FW = FP — ENCROACHED WATER SURFACE ELEVATION; Q = 1423 — 100 YEAR DISCHARGE

BASE FLOOD ELEVATIONS — 2250

ZONE DESIGNATIONS — ZONE A AND AE

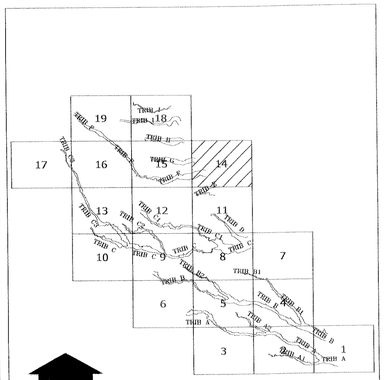
NOTES

1- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS NOTED OTHERWISE.

2- VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). NGVD29 = NAVD88 - 2.05

KEY NOTE

(1) ENGINEERING JUDGMENT USED TO DELINEATE THE FLOODPLAIN BOUNDARY IN THIS AREA.



SHEET INDEX MAP

NO.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

CAMP CREEK TRIBUTARIES

FLOOD DELINEATION STUDY

CONTRACT NO. F.C.D. 2004-C023

200' 0' 200' 400'

SCALE: 1"= 200 FT

CONTOUR INTERVAL = 10 FT

Registered Professional Engineer (Civil) CERTIFICATE NO. 21699 PHILIP O. LOWE Date Signed 1/30/07 ARIZONA, U.S.A.

ASPEN CONSULTING ENGINEERS

	BY	DATE
DESIGN	JCS	02/06/07
DESIGN CHK.	POL	02/06/07
PLANS	JCS	02/06/07
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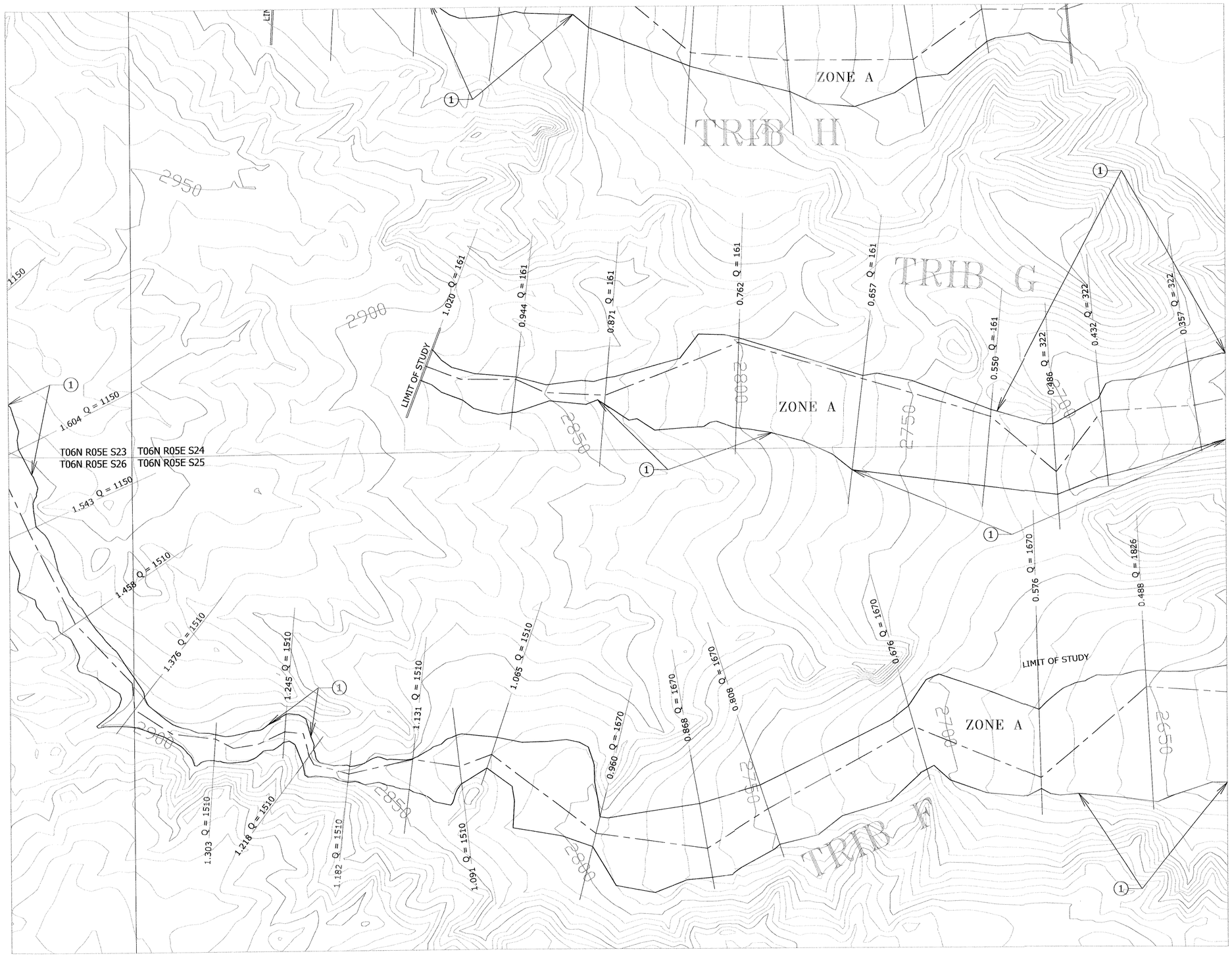
AERIAL MAPPING PROVIDED BY COOPER AERIAL, WILSON AND COMPANY, AND LANDATA AIRBORNE SYSTEMS.

GROUND CONTROL SURVEY DATA PROVIDED BY FLOOD CONTROL DISTRICT OF MARICOPA COUNTY.



LEGEND

100-YR FLOODPLAIN BOUNDARY

FLOODWAY BOUNDARY

HYDRAULIC BASE LINE AT CROSS SECTION STATION 10,000

CROSS SECTION CALLOUT — 0.281 (CROSS SECTION RIVER MILE DESIGNATION); FP = 2249.03 (FLOODPLAIN WATER SURFACE ELEVATION); FW = FP (ENCROACHED WATER SURFACE ELEVATION); Q = 1423 (100 YEAR DISCHARGE)

BASE FLOOD ELEVATIONS — 2250

ZONE DESIGNATIONS — ZONE A AND AE

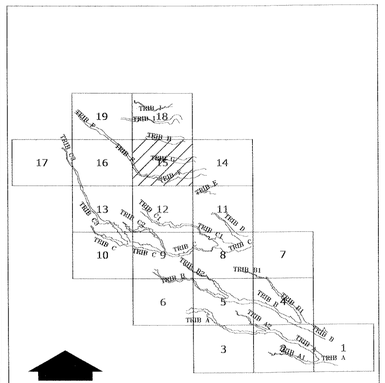
NOTES

1- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS NOTED OTHERWISE.

2- VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). NGVD29 = NAVD88 – 2.05

KEY NOTE

(1) ENGINEERING JUDGMENT USED TO DELINEATE THE FLOODPLAIN BOUNDARY IN THIS AREA.



SHEET INDEX MAP

NO.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

CAMP CREEK TRIBUTARIES

FLOOD DELINEATION STUDY

CONTRACT NO. F.C.D. 2004-C023

200' 0' 200' 400'

SCALE: 1"= 200 FT

CONTOUR INTERVAL = 10 FT

Registered Professional Engineer (Civil) CERTIFICATE NO. 21699 PHILIP O. LOWE Date Signed 4/4/07 ARIZONA, U.S.A.

ASPEN CONSULTING ENGINEERS

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AERIAL MAPPING PROVIDED BY COOPER AERIAL, WILSON AND COMPANY, AND LANDATA AIRBORNE SYSTEMS.

GROUND CONTROL SURVEY DATA PROVIDED BY FLOOD CONTROL DISTRICT OF MARICOPA COUNTY.

LEGEND

100-YR FLOODPLAIN BOUNDARY

FLOODWAY BOUNDARY

HYDRAULIC BASE LINE AT CROSS SECTION STATION 10,000

CROSS SECTION CALLOUT — 0.281 (CROSS SECTION RIVER MILE DESIGNATION) — FP = 2249.03 (FLOODPLAIN WATER SURFACE ELEVATION) — FW = FP (ENCROACHED WATER SURFACE ELEVATION) — Q = 1423 (100 YEAR DISCHARGE)

BASE FLOOD ELEVATIONS — 2250

ZONE DESIGNATIONS — ZONE A AND AE

NOTES

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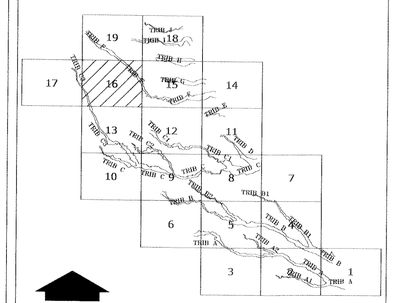
2- VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). NGVD29 = NAVD88 - 2.05

KEY NOTE

(1) ENGINEERING JUDGMENT USED TO DELINEATE THE FLOODPLAIN BOUNDARY IN THIS AREA.



SHEET INDEX MAP

NO.	REVISION	BY	DATE
2			
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

CAMP CREEK TRIBUTARIES

FLOOD DELINEATION STUDY

CONTRACT NO. F.C.D. 2004-C023

Registered Professional Engineer (Civil) 21699 PHILIP O. LOWE Date Signed 11-06-07 ARIZONA, U.S.A.

ASPEN CONSULTING ENGINEERS

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AERIAL MAPPING PROVIDED BY COOPER AERIAL, WILSON AND COMPANY, AND LANDATA AIRBORNE SYSTEMS.

GROUND CONTROL SURVEY DATA PROVIDED BY FLOOD CONTROL DISTRICT OF MARICOPA COUNTY.

LEGEND

100-YR FLOODPLAIN BOUNDARY

FLOODWAY BOUNDARY

HYDRAULIC BASE LINE AT CROSS SECTION STATION 10,000

CROSS SECTION CALLOUT — 0.281 — FP = 2249.03 / FW = FP / Q = 1423

CROSS SECTION RIVER MILE DESIGNATION

FLOODPLAIN WATER SURFACE ELEVATION

ENCROACHED WATER SURFACE ELEVATION

100 YEAR DISCHARGE

BASE FLOOD ELEVATIONS — 2250

ZONE DESIGNATIONS — ZONE A AND AE

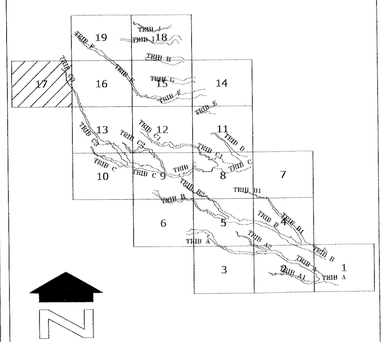
NOTES

1- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS NOTED OTHERWISE.

2- VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). NGVD29 = NAVD88 - 2.05

KEY NOTE

(1) ENGINEERING JUDGMENT USED TO DELINEATE THE FLOODPLAIN BOUNDARY IN THIS AREA.



SHEET INDEX MAP

NO.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

CAMP CREEK TRIBUTARIES

FLOOD DELINEATION STUDY

CONTRACT NO. F.C.D. 2004-C023

Registered Professional Engineer (Civil) CERTIFICATE NO. 21699 PHILIP O. LOWE Date Signed 1/30/07 ARIZONA, U.S.A.

ASPEN CONSULTING ENGINEERS

	BY	DATE
DESIGN	JCS	02/06/07
DESIGN CHK.	POL	02/06/07
PLANS	JCS	02/06/07
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AERIAL MAPPING PROVIDED BY COOPER AERIAL, WILSON AND COMPANY, AND LANDATA AIRBORNE SYSTEMS.

GROUND CONTROL SURVEY DATA PROVIDED BY FLOOD CONTROL DISTRICT OF MARICOPA COUNTY.

LEGEND

100-YR FLOODPLAIN BOUNDARY

FLOODWAY BOUNDARY

HYDRAULIC BASE LINE AT CROSS SECTION STATION 10,000

CROSS SECTION CALLOUT — CROSS SECTION RIVER MILE DESIGNATION: 0.281 — FLOODPLAIN WATER SURFACE ELEVATION: FP = 2249.03 — ENCROACHED WATER SURFACE ELEVATION: FW = FP — 100 YEAR DISCHARGE: Q = 1423

BASE FLOOD ELEVATIONS: 2250

ZONE DESIGNATIONS: ZONE A AND AE

NOTES

1- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS NOTED OTHERWISE.

2- VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). NGVD29 = NAVD88 - 2.05

KEY NOTE

(1) ENGINEERING JUDGMENT USED TO DELINEATE THE FLOODPLAIN BOUNDARY IN THIS AREA.

SHEET INDEX MAP

NO.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

CAMP CREEK TRIBUTARIES FLOOD DELINEATION STUDY

CONTRACT NO. F.C.D. 2004-C023

Registered Professional Engineer (Civil) 21699 PHILIP O. LOWE Date Signed 11/06/07 ARIZONA, U.S.A.

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AERIAL MAPPING PROVIDED BY COOPER AERIAL, WILSON AND COMPANY, AND LANDATA AIRBORNE SYSTEMS.

GROUND CONTROL SURVEY DATA PROVIDED BY FLOOD CONTROL DISTRICT OF MARICOPA COUNTY.

LEGEND

100-YR FLOODPLAIN BOUNDARY

FLOODWAY BOUNDARY

HYDRAULIC BASE LINE AT CROSS SECTION STATION 10,000

CROSS SECTION CALLOUT — CROSS SECTION RIVER MILE DESIGNATION: 0.281 — FLOODPLAIN WATER SURFACE ELEVATION: FP = 2249.03 — ENCROACHED WATER SURFACE ELEVATION: FW = FP — 100 YEAR DISCHARGE: Q = 1423

BASE FLOOD ELEVATIONS — 2250

ZONE DESIGNATIONS — ZONE A AND AE

NOTES

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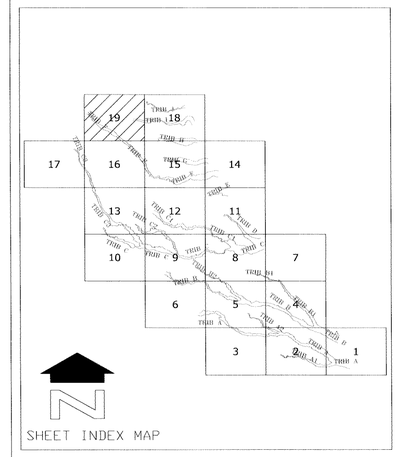

SHEET INDEX MAP

NO.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

CAMP CREEK TRIBUTARIES
FLOOD DELINEATION STUDY
CONTRACT NO. F.C.D. 2004-C023

200' 0' 200' 400'

SCALE: 1" = 200 FT
CONTOUR INTERVAL = 10 FT

Registered Professional Engineer (Civil) CERTIFICATE NO. 21699 PHILIP O. LOWE Date Signed 11-06-07 ARIZONA, U.S.A.

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