

Blackwood Creek

(Floodway)

 HEC2 VERSION UPDATED JAN 1976
 ERROR CORRECTION 01,02,03,04,05,06,07,08,09
 MODIFICATIONS 52,53,54,55,56,57,58

T1 GASTONIA N C
 T2 FLOOD INSURANCE
 T3 BLACKWOOD CR 100-YR Q

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	0.	4.	0.	0.	0.	0.	0.	0.	662.900	0.
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	1.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
J3	1.000	34.000	3.000	4.000	27.000	28.000	26.000	0.	0.	0.
NC	0.100	0.100	0.070	0.100	0.300	0.	0.	0.	0.	0.
QT	5.000	920.000	1750.000	2300.000	2300.000	4100.000	0.	0.	0.	0.
ET	0.	0.	0.	0.	10.400	0.	0.	0.	0.	0.
A X1	12.300	20.000	82.000	119.000	0.	0.	0.	0.	0.	0.
GR	683.500	0.	667.700	50.000	662.000	63.000	661.100	82.000	654.300	90.000
GR	653.900	100.000	654.300	110.000	662.800	119.000	662.400	150.000	661.500	200.000
GR	661.500	227.000	659.600	229.000	660.300	231.000	663.900	250.000	661.500	300.000
GR	663.400	350.000	665.300	400.000	668.800	450.000	670.000	470.000	680.000	530.000
X1	17.700	28.000	635.000	669.000	540.000	540.000	540.000	0.	0.	0.
GR	676.200	0.	669.900	50.000	666.200	100.000	664.600	112.000	663.200	150.000
GR	663.000	200.000	662.700	243.000	662.800	250.000	662.500	261.000	660.000	267.000
GR	662.800	273.000	662.000	300.000	663.500	350.000	663.700	400.000	663.600	450.000
GR	663.800	500.000	664.100	550.000	664.600	600.000	664.800	635.000	656.800	637.000
GR	656.700	650.000	656.400	663.000	664.600	669.000	664.000	700.000	663.500	750.000
GR	667.900	782.000	666.600	800.000	676.100	834.000	0.	0.	0.	0.
B X1	21.000	21.000	279.000	317.000	330.000	330.000	330.000	0.	0.	0.
GR	677.800	0.	665.800	41.000	665.600	50.000	665.700	95.000	663.800	98.000
GR	605.600	101.000	666.000	150.000	665.800	200.000	666.100	250.000	666.900	279.000
GR	658.500	289.000	658.300	300.000	658.600	311.000	667.000	317.000	666.800	350.000
GR	665.700	400.000	666.600	450.000	666.500	476.000	669.000	500.000	674.500	524.000
GR	680.000	560.000	0.	0.	0.	0.	0.	0.	0.	0.
NC	0.090	0.090	0.050	0.100	0.300	0.	0.	0.	0.	0.
QT	5.000	880.000	1700.000	2200.000	2200.000	3850.000	0.	0.	0.	0.
X1	30.000	20.000	361.000	400.000	900.000	900.000	900.000	0.	0.	0.
GR	685.000	70.000	665.500	130.000	665.900	150.000	665.300	200.000	665.100	250.000
GR	665.500	300.000	666.500	350.000	665.500	361.000	659.100	375.000	658.000	380.000
GR	659.200	389.000	666.400	400.000	665.500	450.000	666.000	500.000	669.400	550.000
GR	670.700	600.000	672.400	641.000	675.000	660.000	680.000	740.000	685.000	790.000
X1	32.200	20.000	421.000	446.000	220.000	220.000	220.000	0.	0.	0.
GR	685.000	50.000	680.000	115.000	675.000	200.000	671.500	250.000	668.700	300.000
GR	666.500	350.000	664.200	400.000	663.500	421.000	657.800	427.000	658.800	434.000
GR	659.600	443.000	664.000	446.000	666.800	500.000	667.400	550.000	668.400	600.000
GR	669.700	650.000	672.100	697.000	675.000	730.000	680.000	800.000	685.000	850.000
C X1	35.000	30.000	529.000	564.000	4020.000	280.000	280.000	0.	0.	0.
GR	685.000	65.000	677.500	100.000	675.900	125.000	675.000	126.000	671.800	134.000

GR	671.800	150.000	671.500	200.000	669.900	250.000	669.500	300.000	668.500	350.000
GR	667.700	363.000	665.700	365.000	665.800	373.000	668.200	387.000	668.100	393.000
GR	664.800	397.000	667.900	401.000	667.900	450.000	668.400	500.000	668.600	529.000
GR	660.900	534.000	660.400	544.000	661.100	555.000	668.700	564.000	668.000	600.000
GR	667.800	650.000	668.100	700.000	675.000	730.000	680.000	770.000	685.000	810.000
X1	41.500	0.	0.	0.	650.000	650.000	650.000	0.	2.000	0.
X1	46.500	0.	0.	0.	500.000	500.000	500.000	0.	1.600	0.
D X1	55.600	20.000	379.000	404.000	910.000	910.000	910.000	0.	0.	0.
GR	700.000	0.	694.800	50.000	691.100	100.000	683.200	150.000	676.400	250.000
GR	676.400	300.000	676.200	350.000	673.400	379.000	668.000	383.000	667.300	393.000
GR	668.200	401.000	672.400	404.000	675.800	450.000	676.400	500.000	675.200	580.000
GR	680.200	600.000	688.600	650.000	689.000	665.000	695.000	700.000	700.000	785.000
E X1	68.000	15.000	160.000	200.000	1240.000	1240.000	1240.000	0.	0.	0.
GR	700.800	0.	698.400	20.000	691.200	35.000	688.600	50.000	681.700	100.000
GR	676.200	150.000	678.000	160.000	671.100	177.000	670.400	187.000	671.200	193.000
GR	676.700	200.000	679.900	210.000	680.100	250.000	681.700	300.000	700.000	370.000
X1	69.000	0.	0.	0.	100.000	100.000	100.000	1.000	0.	0.
X3	10.000	0.	0.	0.	0.	0.	0.	688.500	688.500	0.
SB	0.100	2.040	3.100	0.	30.200	0.	420.000	0.	0.	0.
F X1	69.100	0.	0.	0.	10.000	10.000	10.000	0.	0.	0.
X2	0.	0.	1.000	688.000	688.500	0.	0.	0.	0.	0.
X3	10.000	0.	0.	0.	0.	0.	0.	688.500	688.500	0.
BT	10.000	0.	700.000	688.000	150.000	691.000	688.000	161.000	690.400	688.000
BT	175.000	689.600	688.000	192.000	689.400	688.000	200.000	689.000	688.000	250.000
BT	688.500	688.000	273.000	688.500	688.000	300.000	688.800	688.000	400.000	691.300
BT	688.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
X1	70.100	15.000	119.000	161.000	100.000	100.000	100.000	0.	0.	0.
GR	700.000	0.	693.000	50.000	698.700	70.000	683.000	100.000	679.200	119.000
GR	678.200	121.000	677.800	138.000	678.000	158.000	678.500	161.000	684.200	200.000
GR	690.200	215.000	689.500	225.000	692.800	250.000	695.000	270.000	700.000	290.000
NC	0.090	0.090	0.050	0.100	0.300	0.	0.	0.	0.	0.
QT	5.000	780.000	1490.000	1900.000	1900.000	3100.000	0.	0.	0.	0.
X1	76.100	10.000	115.000	155.000	600.000	600.000	600.000	0.	0.	0.
GR	700.000	0.	690.600	58.000	688.000	100.000	686.500	115.000	681.700	130.000
GR	681.100	140.000	681.700	152.000	687.900	155.000	689.300	200.000	700.000	243.000
X1	80.100	0.	0.	0.	400.000	400.000	400.000	0.	0.	0.
X1	82.600	0.	0.	0.	250.000	250.000	250.000	1.000	1.000	0.
G X1	85.700	0.	0.	0.	25310.000	310.000	310.000	1.000	1.100	0.
NC	0.090	0.090	0.050	0.100	0.300	0.	0.	0.	0.	0.
QT	5.000	720.000	1310.000	1650.000	1650.000	2420.000	0.	0.	0.	0.
X1	90.700	0.	0.	0.	500.000	500.000	500.000	1.000	2.100	0.
X1	101.000	19.000	535.000	552.000	1030.000	1030.000	1030.000	0.	0.	0.
GR	710.000	80.000	705.000	145.000	700.000	200.000	697.200	250.000	696.400	300.000
GR	696.500	350.000	695.200	400.000	694.900	450.000	695.400	500.000	695.900	535.000
GR	691.200	539.000	690.600	544.000	690.400	548.000	696.400	552.000	695.500	600.000
GR	696.000	650.000	700.000	685.000	705.000	865.000	710.000	925.000	0.	0.
H X1	107.250	14.000	1050.000	1150.000	55625.000	625.000	625.000	0.	0.	0.
GR	710.400	600.000	708.900	650.000	707.000	700.000	702.000	750.000	698.400	800.000
GR	696.000	850.000	695.800	900.000	695.600	1000.000	696.500	1050.000	689.700	1100.000
GR	697.000	1150.000	701.300	1200.000	706.700	1250.000	709.800	1300.000	0.	0.
I X1	108.600	24.000	1090.400	1109.600	135.000	135.000	135.000	0.	0.	0.

BT	10,000	1096,400	707,600	694,100	1092,000	707,600	698,100	1094,000	707,600	700,200
BT	1096,000	707,600	701,400	1098,000	707,600	702,100	1102,000	707,700	702,100	1104,000
BT	707,700	701,400	1106,000	707,700	700,200	1108,000	707,700	698,100	1109,600	707,800
BT	694,100	0.	0.	0.	0.	0.	0.	0.	0.	0.
GR	710,400	600,000	708,900	650,000	707,000	700,000	702,000	750,000	698,400	800,000
GR	696,000	850,000	695,800	900,000	695,600	1000,000	696,500	1050,000	694,000	1090,400
GR	691,600	1092,000	690,900	1094,000	690,400	1096,000	690,200	1098,000	690,000	1100,000
GR	690,200	1102,000	690,400	1104,000	690,900	1106,000	691,600	1108,000	694,000	1109,600
GR	697,000	1150,000	701,300	1200,000	706,700	1250,000	709,800	1300,000	0.	0.
X1	108,900	14,000	1050,000	1150,000	30,000	30,000	30,000	0.	0.	0.
GR	710,400	600,000	708,900	650,000	707,000	700,000	702,000	750,000	698,400	800,000
GR	696,000	850,000	695,800	900,000	695,600	1000,000	696,500	1050,000	689,700	1100,000
GR	697,000	1150,000	701,300	1200,000	706,700	1250,000	709,800	1300,000	0.	0.
NC	0.060	0.060	0.050	0.100	0.300	0.	0.	0.	0.	0.
QT	5,000	700,000	1250,000	1580,000	1580,000	2200,000	0.	0.	0.	0.
J X1	115,000	15,000	400,000	500,000	610,000	610,000	610,000	0.	0.	0.
GR	715,000	75,000	710,000	160,000	705,000	210,000	703,100	300,000	702,700	350,000
GR	701,700	400,000	700,200	450,000	699,600	464,000	695,700	472,000	695,600	476,000
GR	696,100	483,000	701,100	487,000	702,200	500,000	702,900	550,000	714,000	655,000
X1	120,700	0.	0.	0.	570,000	570,000	570,000	1,000	3,400	0.
K X1	121,400	0.	0.	0.	70,000	70,000	70,000	1,000	0,600	0.
X1	122,000	15,000	500,000	700,000	80,000	80,000	80,000	0.	0,300	0.
GR	720,000	60,000	715,000	140,000	710,000	500,000	707,200	550,000	707,100	600,000
GR	707,000	650,000	704,900	666,000	702,100	669,000	700,300	674,000	702,000	679,000
GR	707,300	665,000	708,400	700,000	712,300	763,000	715,000	793,000	720,000	865,000
L X1	122,800	13,000	300,000	323,000	60,000	60,000	60,000	0.	0.	0.
X3	10,000	0.	0.	0.	0.	0.	0.	708,300	708,400	0.
GR	711,800	0.	711,300	50,000	710,400	100,000	709,300	200,000	709,000	250,000
GR	708,300	300,000	705,500	302,000	702,500	312,000	702,000	320,000	703,000	322,000
GR	708,400	323,000	712,400	400,000	719,000	500,000	0.	0.	0.	0.
SB	1,250	2,040	2,600	0.	22,100	1,200	109,000	0.	0.	0.
X1	123,200	0.	0.	0.	40,000	40,000	40,000	0.	0.	0.
X2	0.	0.	1,000	707,400	708,300	0.	0.	0.	0.	0.
X3	10,000	0.	0.	0.	0.	0.	0.	708,300	708,400	0.
BT	7,000	200,000	709,300	707,400	250,000	709,000	707,400	300,000	708,300	707,400
BT	312,000	708,300	707,400	323,000	708,400	707,400	400,000	712,400	707,400	500,000
BT	719,000	707,400	0.	0.	0.	0.	0.	0.	0.	0.
NC	0.060	0.060	0.050	0.100	0.300	0.	0.	0.	0.	0.
X1	123,500	15,000	550,000	570,000	30,000	30,000	30,000	0.	0.	0.
GR	720,000	50,000	715,000	150,000	710,000	400,000	709,000	450,000	708,100	500,000
GR	706,300	550,000	703,000	555,000	702,500	559,000	703,000	545,000	710,600	570,000
GR	708,500	600,000	710,000	638,000	712,600	688,000	715,000	705,000	720,000	775,000
X1	125,300	0.	0.	0.	180,000	180,000	180,000	1,000	0,700	0.
M X1	130,000	0.	0.	0.	500,000	500,000	500,000	1,000	2,200	0.
X1	134,700	0.	0.	0.	470,000	470,000	470,000	1,000	2,000	0.
N X1	136,100	18,000	535,000	555,000	15140,000	140,000	140,000	1,000	0,500	0.
GR	730,000	0.	725,000	260,000	723,900	300,000	715,900	350,000	713,900	400,000
GR	712,400	450,000	712,400	500,000	711,600	535,000	708,100	538,000	708,400	550,000
GR	712,500	555,000	712,900	574,000	723,000	600,000	720,000	685,000	720,500	700,000
GR	720,000	715,000	725,000	825,000	730,000	935,000	0.	0.	0.	0.
X1	136,800	14,000	374,000	394,000	70,000	70,000	70,000	0.	0.	0.
X3	10,000	0.	0.	0.	0.	0.	0.	724,100	724,000	0.
GR	730,000	0.	727,000	150,000	725,000	250,000	724,500	300,000	724,200	350,000

GR	724.000	394.000	724.000	450.000	725.000	550.000	732.000	388.000	703.000	392.000
SB	0.100	2.040	3.100	770.000	19.400	0.	350.000	750.000	0.	0.
X1	137.200	0.	0.	0.	40.000	40.000	40.000	0.	0.	0.
X2	0.	0.	1.000	721.800	724.000	0.	0.	0.	0.	0.
X3	10.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
BT	10.000	0.	732.200	732.200	150.000	727.000	727.000	724.100	724.000	0.
BT	300.000	724.500	724.500	350.000	724.200	724.200	374.000	250.000	725.000	725.000
BT	724.000	721.800	450.000	724.000	724.000	550.000	725.000	724.100	721.800	394.000
BT	732.000	0.	0.	0.	0.	0.	0.	725.000	750.000	732.000
NC	0.050	0.050	0.060	0.100	0.300	0.	0.	0.	0.	0.
O X1	137.600	14.000	350.000	364.000	40.000	40.000	40.000	0.	0.	0.
GR	730.000	40.000	725.000	185.000	720.000	200.000	715.300	250.000	713.500	300.000
GR	713.500	350.000	708.700	352.000	708.100	357.000	708.400	363.000	711.300	300.000
GR	715.200	400.000	720.500	450.000	725.000	570.000	730.000	620.000	0.	0.
X1	137.900	0.	0.	0.	30.000	30.000	30.000	0.	0.	0.
X1	139.400	0.	0.	0.	150.000	150.000	150.000	1.000	0.500	0.
X1	148.000	0.	0.	0.	860.000	860.000	860.000	1.000	4.300	0.
NC	0.080	0.080	0.050	0.100	0.300	0.	0.	0.	0.	0.
QT	5.000	610.000	1080.000	1260.000	1260.000	1630.000	0.	0.	0.	0.
P X1	156.300	15.000	451.000	462.000	830.000	830.000	830.000	0.	0.	0.
GR	735.000	0.	730.000	115.000	729.600	200.000	730.600	295.000	730.000	335.000
GR	721.700	400.000	721.800	451.000	717.500	453.000	716.900	457.000	717.400	460.000
GR	721.800	462.000	722.800	500.000	725.000	670.000	730.000	720.000	735.000	815.000
X1	163.300	0.	0.	0.	700.000	700.000	700.000	1.000	3.500	0.
X1	170.500	0.	0.	0.	570.000	570.000	570.000	1.000	2.800	0.
X1	170.500	10.000	350.000	358.000	150.000	150.000	150.000	0.	0.500	0.
GR	740.000	80.000	735.000	150.000	730.000	240.000	729.600	300.000	729.200	350.000
GR	724.900	354.000	729.200	356.000	725.000	358.000	729.600	360.000	740.300	400.000
Q X1	170.900	0.	0.	0.	40.000	40.000	40.000	1.000	0.100	0.
X1	171.200	0.	0.	0.	30.000	30.000	30.000	1.000	0.100	0.
X1	171.200	15.000	430.000	455.000	30.000	30.000	30.000	0.	0.100	0.
X3	10.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
GR	745.000	0.	739.000	150.000	737.000	250.000	736.200	300.000	737.500	350.000
GR	739.200	430.000	724.800	431.000	724.800	440.000	725.000	445.000	726.500	447.000
GR	727.000	452.000	739.000	455.000	740.000	500.000	743.600	600.000	744.500	650.000
SB	0.100	2.040	3.100	0.	23.000	0.	260.000	0.	0.	0.
X1	171.600	0.	0.	0.	40.000	40.000	40.000	0.	0.	0.
X2	0.	0.	1.000	737.000	736.200	0.	0.	0.	0.	0.
X3	10.000	0.	0.	0.	0.	0.	0.	0.	0.	0.
BT	10.000	0.	745.000	745.000	150.000	739.000	739.000	736.200	739.000	0.
BT	300.000	736.200	736.200	350.000	737.500	737.500	430.000	250.000	737.000	737.000
BT	739.000	737.000	500.000	740.000	740.000	600.000	743.600	739.200	737.000	455.000
BT	744.500	0.	0.	0.	0.	0.	0.	743.600	650.000	744.500
NC	0.150	0.150	0.060	0.100	0.300	0.	0.	0.	0.	0.
QT	5.000	530.000	940.000	1100.000	1100.000	1420.000	0.	0.	0.	0.
R X1	172.250	13.000	288.000	298.000	65.000	65.000	65.000	0.	0.	0.
GR	745.000	20.000	740.000	130.000	736.200	235.000	730.000	250.000	729.300	288.000
GR	725.500	290.000	725.000	293.000	725.400	295.000	729.400	298.000	732.800	350.000
GR	734.400	370.000	743.500	400.000	749.500	455.000	0.	0.	0.	0.
X1	174.050	0.	0.	0.	180.000	180.000	180.000	0.	0.	0.

SUMMARY PRINTOUT FOR MULTIPLE PROFILES

BLACKWOOD CR FLOODWAY

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL OF GROUND	DISCHARGE (CFS)	CWSEL	TO	EG	TOPWID	STENCL	STENCR	VCH	
A	12.30	0.	0.	0.	653.90	2300.00	662.90	210.15	663.69	249.78	0.	0.	7.66
	12.30	0.	0.	0.	653.90	2300.00	663.90	215.61	664.85	37.00	82.00	119.00	7.83
	17.70	540.00	0.	0.	656.40	2300.00	665.70	544.00	665.77	690.27	0.	0.	3.04
	17.70	540.00	0.	0.	656.40	2300.00	666.78	554.83	666.86	374.21	294.79	669.00	3.13
B	21.00	330.00	0.	0.	658.30	2300.00	666.30	161.45	667.51	316.93	0.	0.	9.19
	21.00	330.00	0.	0.	658.30	2300.00	667.32	185.85	668.45	38.00	279.00	317.00	8.55
	30.00	900.00	0.	0.	658.00	2200.00	669.30	862.77	669.37	430.28	0.	0.	2.90
	30.00	900.00	0.	0.	658.00	2200.00	670.21	837.43	670.30	233.53	203.57	437.10	3.20
	32.20	220.00	0.	0.	658.80	2200.00	669.44	596.88	669.60	353.50	0.	0.	4.45
	32.20	220.00	0.	0.	658.80	2200.00	670.33	595.89	670.54	121.06	377.38	498.45	4.73
C	35.00	280.00	0.	0.	660.40	2200.00	674.10	1994.09	674.11	597.82	0.	0.	1.50
	35.00	280.00	0.	0.	660.40	2200.00	675.03	1966.58	675.05	361.66	284.06	645.72	1.60
	41.50	650.00	0.	0.	662.40	2200.00	674.21	1129.46	674.25	584.89	0.	0.	2.36
	41.50	650.00	0.	0.	661.40	2200.00	675.14	1110.29	675.19	278.38	347.37	625.75	2.55
	46.50	500.00	0.	0.	664.00	2200.00	674.46	679.34	674.56	491.98	0.	0.	3.55
	46.50	500.00	0.	0.	664.00	2200.00	675.38	660.90	675.53	224.04	382.02	606.06	3.91
D	55.60	910.00	0.	0.	667.30	2200.00	676.04	228.20	677.38	186.71	0.	0.	9.82
	55.60	910.00	0.	0.	667.30	2200.00	676.57	200.71	678.41	25.00	379.00	404.00	10.88
E	68.00	1240.00	0.	0.	670.40	2200.00	681.59	504.73	681.94	195.74	0.	0.	5.18
	68.00	1240.00	0.	0.	670.40	2200.00	683.05	497.09	683.48	43.81	156.19	200.00	5.32
	69.00	100.00	0.	0.	670.40	2200.00	681.64	405.03	682.26	40.00	0.	0.	6.32
	69.00	100.00	0.	0.	670.40	2200.00	683.23	509.34	683.67	40.00	160.00	200.00	5.34
F	69.10	10.00	0.	0.	670.40	2200.00	681.87	407.46	682.29	40.00	0.	0.	6.29
	69.10	10.00	0.	0.	670.40	2200.00	683.27	511.90	683.71	40.00	160.00	200.00	5.32
	70.10	100.00	0.	0.	677.80	2200.00	682.24	154.54	683.94	82.76	0.	0.	11.02
	70.10	100.00	0.	0.	677.80	2200.00	682.61	150.50	684.62	42.00	119.00	161.00	11.37
	76.10	600.00	0.	0.	681.10	1900.00	689.15	260.77	689.88	114.00	0.	0.	7.00
	76.10	600.00	0.	0.	681.10	1900.00	689.69	271.78	690.40	40.00	115.00	155.00	6.76
	80.10	400.00	0.	0.	681.10	1900.00	690.81	427.45	691.14	149.42	0.	0.	4.97
	80.10	400.00	0.	0.	681.10	1900.00	691.33	377.05	691.80	40.00	115.00	155.00	5.48
	82.60	250.00	0.	0.	682.10	1900.00	691.32	370.48	691.74	141.53	0.	0.	5.50
	82.60	250.00	0.	0.	682.10	1900.00	691.98	353.54	692.49	40.00	115.00	155.00	5.71
G	85.70	310.00	0.	0.	683.20	1900.00	695.08	741.36	695.21	171.40	0.	0.	3.35
	85.70	310.00	0.	0.	683.20	1900.00	694.50	564.35	694.74	74.96	96.31	171.26	4.24
	90.70	500.00	0.	0.	685.30	1650.00	695.45	482.65	695.66	153.87	0.	0.	3.96
	90.70	500.00	0.	0.	685.30	1650.00	695.14	361.85	695.52	42.09	112.91	155.00	4.93

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL OF GROUND	DISCHARGE (CFS)	CWSEL	TQ	EG	TOPWID	STENCL	STENCR	VCH	
	101.00	1030.00	0.	0.	690.40	1650.00	697.60	248.58	697.76	421.31	0.	0.	5.17
	101.00	1030.00	0.	0.	690.40	1650.00	698.46	230.32	698.73	139.39	412.61	552.00	5.78
H	107.25	625.00	0.	0.	689.70	1650.00	702.53	2231.86	702.54	466.68	0.	0.	0.97
	107.25	625.00	0.	0.	689.70	1650.00	703.49	2237.23	703.70	259.41	890.59	1150.00	1.00
							5						
I	108.60	135.00	707.60	702.10	690.00	1650.00	702.54	1222.45	702.55	466.89	0.	0.	1.06
	108.60	135.00	707.60	702.10	690.00	1650.00	703.70	1255.28	703.71	275.51	834.09	1109.60	0.89
							5						
	108.90	30.00	0.	0.	689.70	1650.00	702.54	2239.22	702.55	466.96	0.	0.	0.96
	108.90	30.00	0.	0.	689.70	1650.00	703.70	2242.36	703.71	259.66	890.34	1150.00	1.00
							5						
J	115.00	610.00	0.	0.	695.60	1580.00	702.65	100.74	702.93	116.15	0.	0.	7.54
	115.00	610.00	0.	0.	695.60	1580.00	703.61	247.33	703.90	100.00	400.00	500.00	4.34
							5						
	120.70	570.00	0.	0.	699.00	1580.00	706.88	271.98	707.09	273.79	0.	0.	3.91
	120.70	570.00	0.	0.	699.00	1580.00	706.48	191.74	706.88	100.00	400.00	500.00	5.07
							5						
K	121.40	70.00	0.	0.	699.60	1580.00	707.11	212.26	707.42	252.47	0.	0.	4.64
	121.40	70.00	0.	0.	699.60	1580.00	706.97	180.67	707.40	100.00	400.00	500.00	5.25
							7.1						
	122.00	80.00	0.	0.	700.60	1580.00	708.29	87.76	709.01	158.60	0.	0.	6.79
	122.00	80.00	0.	0.	700.60	1580.00	708.26	85.10	709.01	157.64	500.00	700.00	6.94
							5						
L	122.80	60.00	0.	0.	702.00	1580.00	709.96	161.82	710.84	212.95	0.	0.	8.43
	122.80	60.00	0.	0.	702.00	1580.00	708.87	91.80	711.48	23.56	299.44	323.00	12.98
							18.0						
	123.20	40.00	0.	0.	702.00	1580.00	710.15	181.16	710.84	234.29	0.	0.	7.68
	123.20	40.00	0.	0.	702.00	1580.00	709.18	102.10	711.39	34.44	288.56	323.00	12.04
							5						
	123.50	30.00	0.	0.	702.50	1580.00	710.86	333.59	711.01	297.58	0.	0.	4.26
	123.50	30.00	0.	0.	702.50	1580.00	711.50	299.05	711.77	82.02	487.98	570.00	4.94
							5						
	125.30	180.00	0.	0.	703.20	1580.00	711.30	285.25	711.49	278.59	0.	0.	4.85
	125.30	180.00	0.	0.	703.20	1580.00	712.02	259.99	712.38	69.05	500.95	570.00	5.61
							5						
M	130.00	500.00	0.	0.	705.40	1580.00	713.11	228.99	713.41	246.90	0.	0.	5.87
	130.00	500.00	0.	0.	705.40	1580.00	714.03	229.15	714.50	59.64	510.36	570.00	6.28
							5						
	134.70	470.00	0.	0.	707.40	1580.00	715.23	246.38	715.49	257.29	0.	0.	5.51
	134.70	470.00	0.	0.	707.40	1580.00	716.17	245.50	716.59	62.84	507.16	570.00	5.92
							5						
N	136.10	140.00	0.	0.	708.60	1580.00	719.52	1266.26	719.54	259.28	0.	0.	1.56
	136.10	140.00	0.	0.	708.60	1580.00	720.76	1282.48	720.78	160.66	394.34	555.00	1.37
							5						
	136.80	70.00	0.	0.	703.60	1580.00	719.18	258.53	719.73	19.21	0.	0.	5.94
	136.80	70.00	0.	0.	703.60	1580.00	720.48	289.37	720.94	19.42	374.00	394.00	5.43
							5						
	137.20	40.00	0.	0.	703.60	1580.00	719.34	262.29	719.88	19.24	0.	0.	5.87
	137.20	40.00	0.	0.	703.60	1580.00	720.64	293.25	721.09	19.45	374.00	394.00	5.37
							39						
O	137.60	40.00	0.	0.	708.10	1580.00	719.92	1107.50	719.95	243.77	0.	0.	1.42
	137.60	40.00	0.	0.	708.10	1580.00	721.12	1192.59	721.15	130.93	260.11	391.05	1.41
							0.9						

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL OF GROUND	DISCHARGE (CFS)	CWSEL	TO	EG	TOPWID	STENCL	STENCR	VCH	
	137.90	30.00	0.	0.	708.10	1580.00	719.93	1109.42	719.96	243.90	0.	0.	1.42
	137.90	30.00	0.	0.	708.10	1580.00	721.12	1194.29	721.16	130.99	260.08	391.07	1.41
	139.40	150.00	0.	0.	708.60	1580.00	719.96	967.06	719.99	234.47	0.	0.	1.58
	139.40	150.00	0.	0.	708.60	1580.00	721.15	1051.21	721.19	126.26	262.89	389.15	1.56
	148.00	860.00	0.	0.	712.90	1580.00	720.37	180.43	720.75	156.43	0.	0.	5.25
	148.00	860.00	0.	0.	712.90	1580.00	721.33	190.00	721.90	63.00	306.59	369.59	6.49
P	156.30	830.00	0.	0.	716.90	1260.00	724.97	212.22	725.12	293.97	0.	0.	4.85
	156.30	830.00	0.	0.	716.90	1260.00	725.79	216.16	726.00	114.19	428.45	542.64	5.13
	163.30	700.00	0.	0.	720.40	1260.00	728.05	163.44	728.30	257.61	0.	0.	6.04
	163.30	700.00	0.	0.	720.40	1260.00	728.85	156.85	729.25	82.96	429.62	512.57	6.80
	170.50	570.00	0.	0.	723.20	1260.00	731.07	186.80	731.26	275.88	0.	0.	5.40
	170.50	570.00	0.	0.	723.20	1260.00	731.96	193.16	732.22	99.98	429.21	529.19	5.68
	170.50	150.00	0.	0.	725.40	1260.00	732.16	95.60	732.49	157.76	0.	0.	7.05
	170.50	150.00	0.	0.	725.40	1260.00	732.97	81.84	733.59	59.64	298.36	358.00	7.03
Q	170.90	40.00	0.	0.	725.50	1260.00	732.79	136.36	732.98	169.04	0.	0.	5.31
	170.90	40.00	0.	0.	725.50	1260.00	733.88	134.46	734.16	71.53	286.47	358.00	4.58
	171.20	30.00	0.	0.	725.60	1260.00	733.05	150.50	733.21	172.55	0.	0.	4.91
	171.20	30.00	0.	0.	725.60	1260.00	734.16	150.24	734.40	74.84	283.16	358.	4.16
	171.20	30.00	0.	0.	724.90	1260.00	732.72	128.21	733.70	22.95	0.	0.	7.96
	171.20	30.00	0.	0.	724.90	1260.00	734.04	163.64	734.73	23.37	430.00	455.00	6.68
	171.60	40.00	0.	0.	724.90	1260.00	733.21	141.17	734.07	23.11	0.	0.	7.43
	171.60	40.00	0.	0.	724.90	1260.00	734.53	177.46	735.14	23.53	430.00	455.00	6.30
R	172.25	65.00	0.	0.	725.00	1100.00	734.32	152.84	734.55	129.61	0.	0.	5.61
	172.25	65.00	0.	0.	725.00	1100.00	735.22	160.18	735.49	64.64	262.98	327.62	5.74
	174.05	180.00	0.	0.	725.00	1100.00	735.12	198.78	735.26	134.76	0.	0.	4.59
	174.05	180.00	0.	0.	725.00	1100.00	735.99	203.39	736.16	72.32	261.13	333.45	4.77
S	188.20	1595.00	0.	0.	735.60	1100.00	741.72	141.32	741.97	178.54	0.	0.	4.85
	188.20	1595.00	0.	0.	735.60	1100.00	742.58	134.14	743.62	49.82	330.18	380.00	5.59
	194.80	660.00	0.	0.	738.80	1100.00	746.21	119.64	746.75	354.55	0.	0.	7.44
	194.80	660.00	0.	0.	738.80	1100.00	747.55	116.21	748.17	51.22	358.78	410.00	7.31
T	200.00	520.00	0.	0.	743.00	780.00	750.90	75.57	751.62	29.17	0.	0.	7.00
	200.00	520.00	0.	0.	743.00	780.00	752.29	82.86	752.82	21.73	294.00	328.00	5.80
	200.70	70.00	0.	0.	744.60	780.00	751.63	50.93	752.83	18.71	0.	0.	8.81
	200.70	70.00	0.	0.	744.60	780.00	752.92	66.20	753.64	20.42	294.00	328.00	6.86
	201.40	70.00	0.	0.	741.40	780.00	759.04	106.62	759.66	7.00	0.	0.	6.32
	201.40	70.00	0.	0.	741.40	780.00	760.33	97.37	760.87	7.00	346.50	353.50	5.89

107.25
52.70
21.55

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL OF GROUND	DISCHARGE (CFS)	CWSEL	TQ	EG	TOPWID	STENCL	STENCR	VCH
U 202.90	150.00	0.	0.	747.80	780.00	759.88	290.61	759.95	67.10	0.	0.	2.37
202.90	150.00	0.	0.	747.80	780.00	761.05	295.47	761.15	36.35	320.00	356.35	2.53
210.40	750.00	0.	0.	756.50	620.00	761.32	39.66	762.21	86.52	0.	0.	8.98
210.40	750.00	0.	0.	756.50	620.00	761.63	27.82	763.83	12.00	144.00	156.00	11.91
V 218.20	780.00	0.	0.	763.00	620.00	770.27	79.50	770.71	76.19	0.	0.	5.63
218.20	780.00	0.	0.	763.00	620.00	772.15	90.87	772.52	16.00	92.00	108.00	4.90

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
12.300	2300.000	662.900	0.	0.	0.	249.784	0.	0.
12.300	2300.000	663.900	1.000	0.	0.	37.001	212.783	0.
17.700	2300.000	665.703	0.	2.803	0.	690.269	0.	540.000
17.700	2300.000	666.784	1.081	2.884	0.	374.207	316.061	540.000
21.000	2300.000	666.302	0.	0.599	0.	316.926	0.	330.000
21.000	2300.000	667.318	1.016	0.534	0.	38.001	278.925	330.000
30.000	2200.000	669.303	0.	3.001	0.	430.284	0.	900.000
30.000	2200.000	670.205	0.902	2.887	0.	233.528	196.756	900.000
32.200	2200.000	669.436	0.	0.132	0.	353.407	0.	220.000
32.200	2200.000	670.326	0.891	0.121	0.	121.065	232.432	220.000
35.000	2200.000	674.097	0.	4.661	0.	597.817	0.	280.000
35.000	2200.000	675.031	0.934	4.704	0.	361.659	236.158	280.000
41.500	2200.000	674.209	0.	0.112	0.	584.887	0.	650.000
41.500	2200.000	675.139	0.931	0.109	0.	278.382	306.505	650.000
46.500	2200.000	674.459	0.	0.250	0.	491.978	0.	500.000
46.500	2200.000	675.380	0.920	0.240	0.	224.036	267.982	500.000
55.600	2200.000	676.095	0.	1.636	0.	186.712	0.	910.000
55.600	2200.000	676.571	0.476	1.191	0.	25.001	161.711	910.000
68.000	2200.000	681.595	0.	5.500	0.	195.741	0.	1240.000
68.000	2200.000	683.047	1.453	6.476	0.	43.813	151.928	1240.000
69.000	2200.000	681.636	0.	0.042	0.	40.000	0.	100.000
69.000	2200.000	683.231	1.595	0.184	0.	40.000	0.	100.000
69.100	2200.000	681.671	0.	0.034	0.	40.000	0.	10.000
69.100	2200.000	683.266	1.595	0.034	0.	40.000	0.	10.000
70.100	2200.000	682.237	0.	0.566	0.	82.757	0.	100.000
70.100	2200.000	682.609	0.372	-0.656	0.	42.001	40.756	100.000
76.100	1900.000	689.154	0.	6.917	0.	114.002	0.	600.000
76.100	1900.000	689.693	0.538	7.084	0.	40.001	74.001	600.000
80.100	1900.000	690.811	0.	1.657	0.	149.425	0.	400.000
80.100	1900.000	691.333	0.521	1.640	0.	40.001	109.424	400.000
82.600	1900.000	691.317	0.	0.505	0.	141.534	0.	250.000
82.600	1900.000	691.981	0.664	0.648	0.	40.001	101.533	250.000
85.700	1900.000	695.081	0.	3.765	0.	171.398	0.	310.000

89,700	1600,000	694,897	-0.984	2.916	0.	74,948	98,420	310,000
90,700	1650,000	695,452	0.	0.370	0.	153,872	0.	500,000
90,700	1650,000	695,143	-0.309	0.646	0.	42,089	111,783	500,000
101,000	1650,000	697,604	0.	2.152	0.	421,310	0.	1030,000
101,000	1650,000	698,463	0.860	3.321	0.	139,363	281,917	1030,000
107,250	1650,000	702,528	0.	4.924	0.	466,679	0.	625,000
107,250	1650,000	703,686	1.158	5.223	0.	259,409	207,270	625,000
108,600	1650,000	702,540	0.	0.013	0.	466,887	0.	135,000
108,600	1650,000	703,699	1.158	0.013	0.	275,513	191,373	135,000
108,900	1650,000	702,543	0.	0.003	0.	466,955	0.	30,000
108,900	1650,000	703,701	1.158	0.002	0.	259,656	207,300	30,000
115,000	1580,000	702,049	0.	-0.493	0.	116,154	0.	610,000
115,000	1580,000	703,607	1.557	-0.094	0.	100,001	16,153	610,000
120,700	1580,000	706,883	0.	4.834	0.	273,786	0.	570,000
120,700	1580,000	706,485	-0.399	2.878	0.	100,001	173,785	570,000
121,400	1580,000	707,110	0.	0.227	0.	252,470	0.	70,000
121,400	1580,000	706,968	-0.143	0.483	0.	100,001	152,469	70,000
122,000	1580,000	708,293	0.	1.182	0.	158,598	0.	80,000
122,000	1580,000	708,262	-0.030	1.294	0.	157,643	0.954	80,000
122,800	1580,000	709,959	0.	1.667	0.	212,946	0.	60,000
122,800	1580,000	708,870	-1.089	0.608	0.	23,561	189,386	60,000
123,200	1580,000	710,147	0.	0.187	0.	234,260	0.	40,000
123,200	1580,000	709,184	-0.962	0.314	0.	34,439	199,852	40,000
123,500	1580,000	710,861	0.	0.714	0.	297,575	0.	30,000
123,500	1580,000	711,505	0.644	2.321	0.	82,017	215,558	30,000
125,300	1580,000	711,295	0.	0.434	0.	278,594	0.	180,000
125,300	1580,000	712,015	0.720	0.510	0.	69,046	209,547	180,000
130,000	1580,000	713,107	0.	1.812	0.	246,900	0.	500,000
130,000	1580,000	714,026	0.919	2.011	0.	59,643	187,257	500,000
134,700	1580,000	715,230	0.	2.123	0.	257,260	0.	470,000
134,700	1580,000	716,171	0.941	2.146	0.	62,841	194,449	470,000
136,100	1580,000	719,522	0.	4.292	0.	259,279	0.	140,000
136,100	1580,000	720,758	1.236	4.587	0.	160,658	98,621	140,000
136,800	1580,000	719,182	0.	-0.340	0.	19,213	0.	70,000
136,800	1580,000	720,482	1.300	-0.276	0.	19,424	-0.210	70,000
137,200	1580,000	719,343	0.	0.161	0.	19,239	0.	40,000
137,200	1580,000	720,643	1.300	0.161	0.	19,450	-0.211	40,000
137,600	1580,000	719,925	0.	0.581	0.	243,775	0.	40,000
137,600	1580,000	721,115	1.191	0.472	0.	130,933	112,842	40,000
137,900	1580,000	719,931	0.	0.006	0.	243,897	0.	30,000
137,900	1580,000	721,121	1.190	0.005	0.	130,990	112,907	30,000
139,400	1580,000	719,962	0.	0.031	0.	234,473	0.	150,000
139,400	1580,000	721,146	1.184	0.025	0.	126,262	108,211	150,000
148,000	1580,000	720,366	0.	0.404	0.	156,425	0.	860,000

148.000	1580.000	721.335	0.969	0.189	0.	62.998	93.427	860.000
156.300	1260.000	724.971	0.	4.606	0.	293.974	0.	830.000
156.300	1260.000	725.795	0.824	4.460	0.	114.191	179.783	830.000
163.300	1260.000	728.051	0.	3.079	0.	257.606	0.	700.000
163.300	1260.000	728.850	0.800	3.055	0.	82.955	174.650	700.000
170.500	1260.000	731.066	0.	3.015	0.	275.880	0.	570.000
170.500	1260.000	731.961	0.895	3.111	0.	99.985	175.895	570.000
170.500	1260.000	732.160	0.	1.094	0.	157.757	0.	150.000
170.500	1260.000	732.973	0.813	1.012	0.	59.636	98.121	150.000
170.900	1260.000	732.787	0.	0.627	0.	169.045	0.	40.000
170.900	1260.000	733.873	1.086	0.901	0.	71.533	97.512	40.000
171.200	1260.000	733.048	0.	0.261	0.	172.547	0.	30.000
171.200	1260.000	734.158	1.110	0.285	0.	74.838	97.709	30.000
171.200	1260.000	732.720	0.	-0.328	0.	22.950	0.	30.000
171.200	1260.000	734.037	1.317	-0.121	0.	23.369	-0.419	30.000
171.600	1260.000	733.210	0.	0.489	0.	23.107	0.	40.000
171.600	1260.000	734.527	1.317	0.489	0.	23.525	-0.419	40.000
172.250	1100.000	734.322	0.	1.112	0.	129.613	0.	65.000
172.250	1100.000	735.221	0.899	0.694	0.	64.636	64.977	65.000
174.050	1100.000	735.121	0.	0.799	0.	134.758	0.	180.000
174.050	1100.000	735.987	0.866	0.766	0.	72.317	62.402	180.000
188.200	1100.000	741.724	0.	6.604	0.	178.538	0.	1595.000
188.200	1100.000	742.580	0.856	6.593	0.	49.818	128.721	1595.000
194.800	1100.000	746.209	0.	4.485	0.	354.554	0.	660.000
194.800	1100.000	747.549	1.340	4.969	0.	51.217	303.337	660.000
200.000	780.000	750.903	0.	4.694	0.	29.166	0.	520.000
200.000	780.000	752.293	1.390	4.744	0.	21.727	7.439	520.000
200.700	780.000	751.629	0.	0.726	0.	18.706	0.	70.000
200.700	780.000	752.915	1.286	0.622	0.	20.424	-1.718	70.000
201.400	780.000	759.043	0.	7.414	0.	7.000	0.	70.000
201.400	780.000	760.329	1.286	7.414	0.	7.000	0.	70.000
202.900	780.000	759.876	0.	0.832	0.	67.103	0.	150.000
202.900	780.000	761.049	1.173	0.720	0.	36.347	30.756	150.000
210.400	620.000	761.318	0.	1.402	0.	86.518	0.	750.000
210.400	620.000	761.625	0.307	0.576	0.	12.001	74.517	750.000
218.200	620.000	770.272	0.	8.954	0.	76.194	0.	780.000
218.200	620.000	772.152	1.879	10.527	0.	16.001	60.193	780.000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.	0.	804.166	0.
2	4.000	0.208	395.029	-409.137