

Plan: Default Scenario Reach B Reach B RS: 203 Profile: 1

E.G. Elev (ft)	2483.46	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.23	Wt. n-Val.	0.045	0.030	0.045
W.S. Elev (ft)	2483.23	Reach Len. (ft)	286.26	286.26	286.26
Crit W.S. (ft)	2483.23	Flow Area (sq ft)	15.83	30.55	39.77
E.G. Slope (ft/ft)	0.018145	Area (sq ft)	15.83	30.55	39.77
Q Total (cfs)	284.10	Flow (cfs)	32.30	143.96	107.84
Top Width (ft)	185.83	Top Width (ft)	50.95	51.44	83.44
Vel Total (ft/s)	3.30	Avg. Vel. (ft/s)	2.04	4.71	2.71
Max Chl Dpth (ft)	1.31	Hydr. Depth (ft)	0.31	0.59	0.48
Conv. Total (cfs)	2109.1	Conv. (cfs)	239.8	1068.7	800.5
Length Wtd. (ft)	286.26	Wetted Per. (ft)	50.97	51.45	83.54
Min Ch El (ft)	2482.51	Shear (lb/sq ft)	0.35	0.67	0.54
Alpha	1.34	Stream Power (lb/ft s)	356.12	0.00	0.00
Frctn Loss (ft)		Cum Volume (acre-ft)	0.54	0.39	0.15
C & E Loss (ft)		Cum SA (acres)	1.43	0.52	0.35

Plan: Default Scenario Reach B Reach B RS: 202 Profile: 1

E.G. Elev (ft)	2478.35	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.45	Wt. n-Val.	0.045	0.030	
W.S. Elev (ft)	2477.90	Reach Len. (ft)	122.29	122.29	122.29
Crit W.S. (ft)	2478.04	Flow Area (sq ft)	45.96	28.62	
E.G. Slope (ft/ft)	0.017381	Area (sq ft)	45.96	28.62	
Q Total (cfs)	284.10	Flow (cfs)	98.16	185.94	
Top Width (ft)	162.24	Top Width (ft)	133.69	28.55	
Vel Total (ft/s)	3.81	Avg. Vel. (ft/s)	2.14	6.50	
Max Chl Dpth (ft)	1.58	Hydr. Depth (ft)	0.34	1.00	
Conv. Total (cfs)	2154.9	Conv. (cfs)	744.5	1410.4	
Length Wtd. (ft)	122.29	Wetted Per. (ft)	133.79	28.84	
Min Ch El (ft)	2476.32	Shear (lb/sq ft)	0.37	1.08	
Alpha	2.01	Stream Power (lb/ft s)	331.63	0.00	0.00
Frctn Loss (ft)	5.08	Cum Volume (acre-ft)	0.34	0.20	0.02
C & E Loss (ft)	0.02	Cum SA (acres)	0.82	0.25	0.08

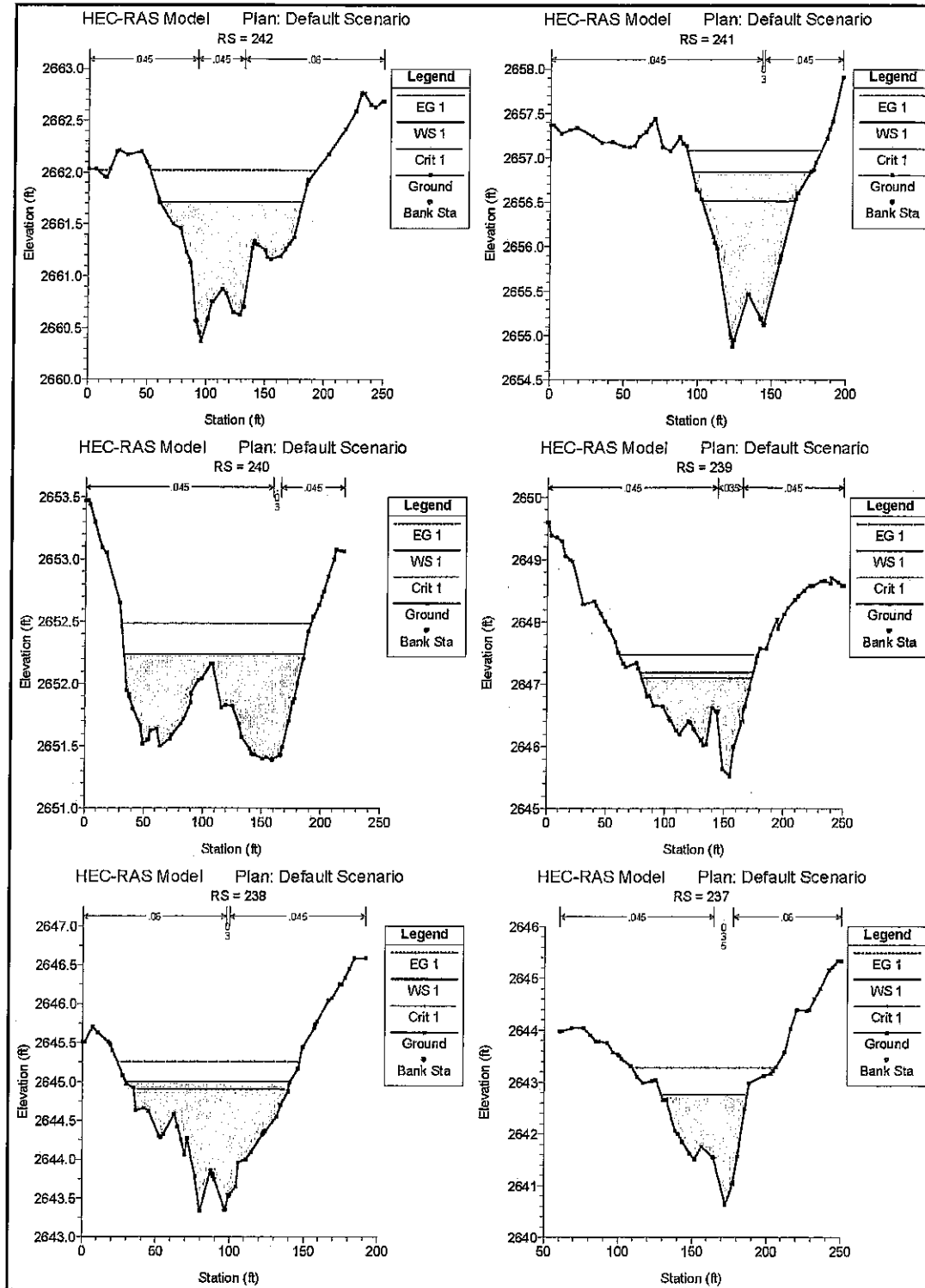
Plan: Default Scenario Reach B Reach B RS: 201 Profile: 1

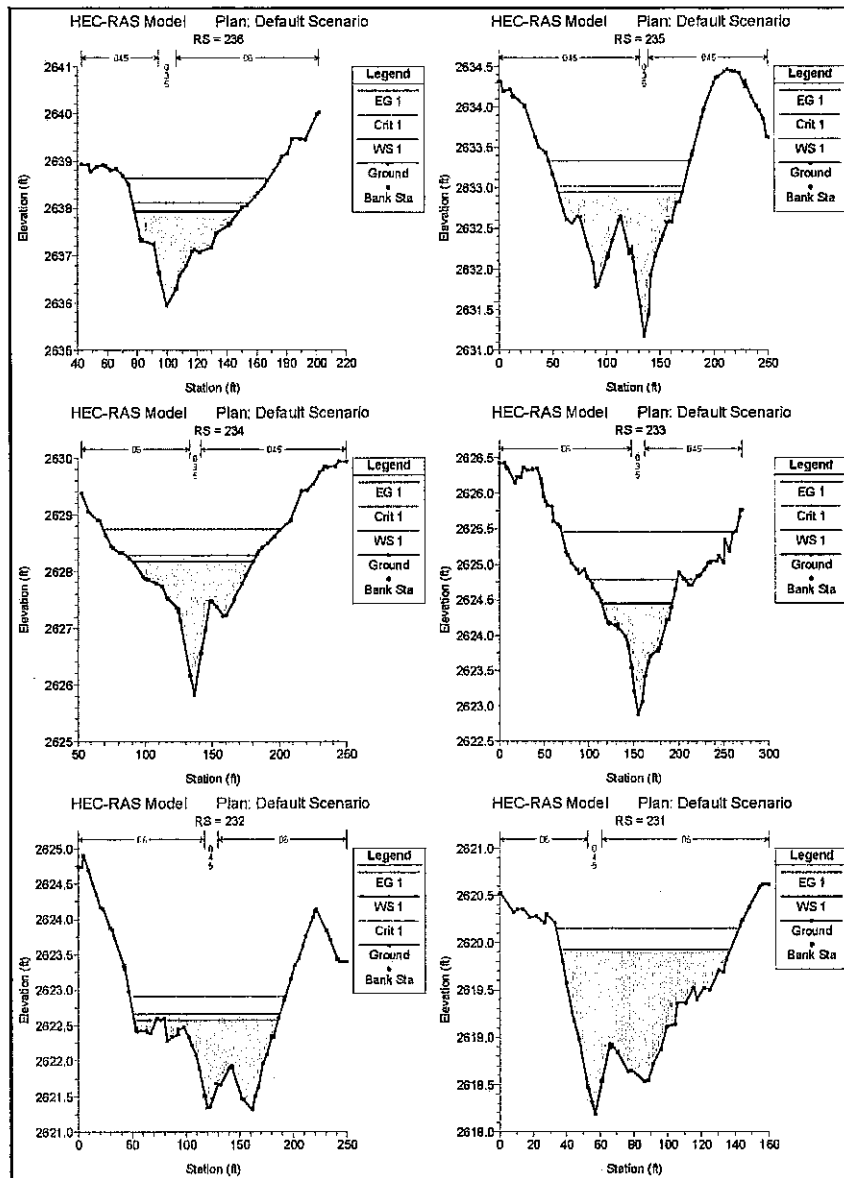
E.G. Elev (ft)	2475.68	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.49	Wt. n-Val.	0.045	0.030	0.045
W.S. Elev (ft)	2475.19	Reach Len. (ft)	194.59	194.59	194.59
Crit W.S. (ft)	2475.33	Flow Area (sq ft)	37.80	21.71	1.91
E.G. Slope (ft/ft)	0.028082	Area (sq ft)	37.80	21.71	1.91
Q Total (cfs)	284.10	Flow (cfs)	126.43	152.89	4.78
Top Width (ft)	116.97	Top Width (ft)	82.95	27.78	6.24
Vel Total (ft/s)	4.63	Avg. Vel. (ft/s)	3.34	7.04	2.51
Max Chl Dpth (ft)	0.86	Hydr. Depth (ft)	0.46	0.78	0.31
Conv. Total (cfs)	1695.3	Conv. (cfs)	754.5	912.3	28.5
Length Wtd. (ft)	194.59	Wetted Per. (ft)	83.02	27.79	6.27
Min Ch El (ft)	2474.33	Shear (lb/sq ft)	0.80	1.37	0.53
Alpha	1.48	Stream Power (lb/ft s)	161.20	0.00	0.00
Frctn Loss (ft)	2.66	Cum Volume (acre-ft)	0.22	0.13	0.01
C & E Loss (ft)	0.00	Cum SA (acres)	0.52	0.18	0.07

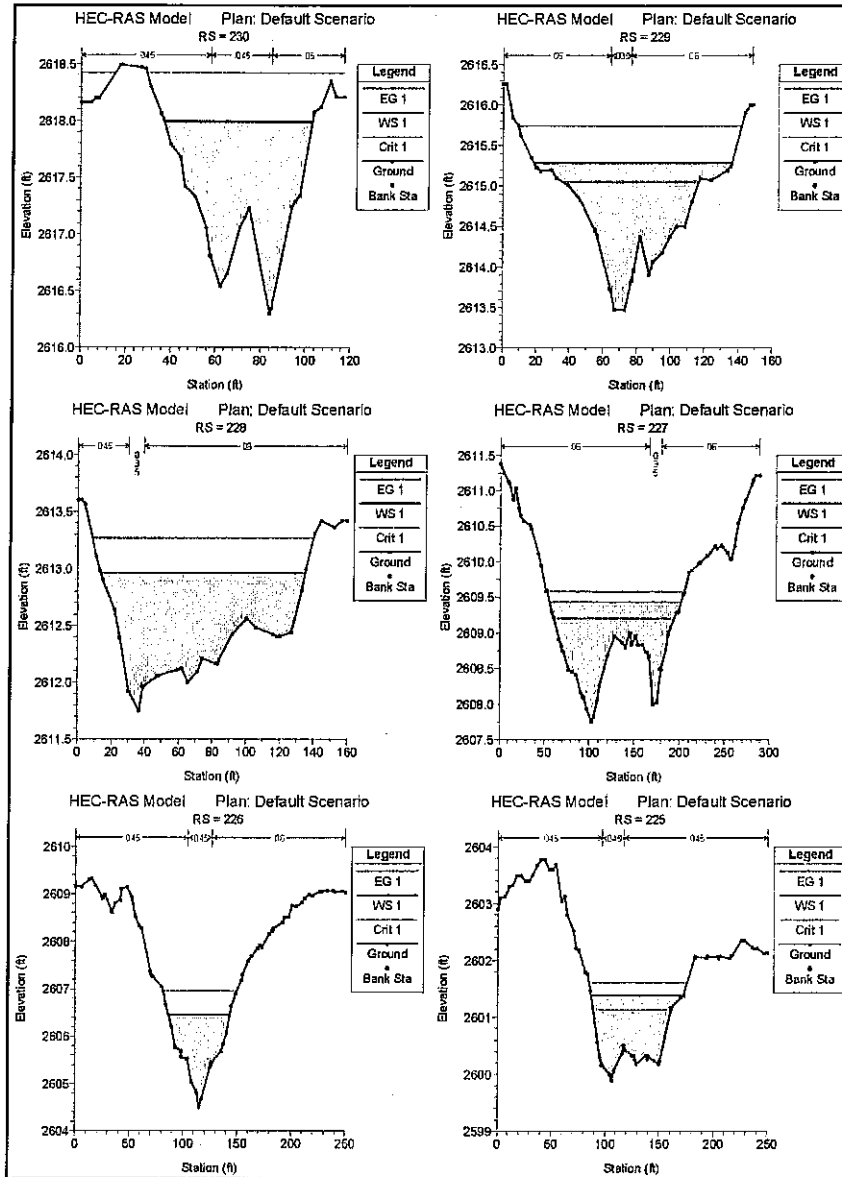
Plan: Default Scenario Reach B Reach B RS: 200 Profile: 1

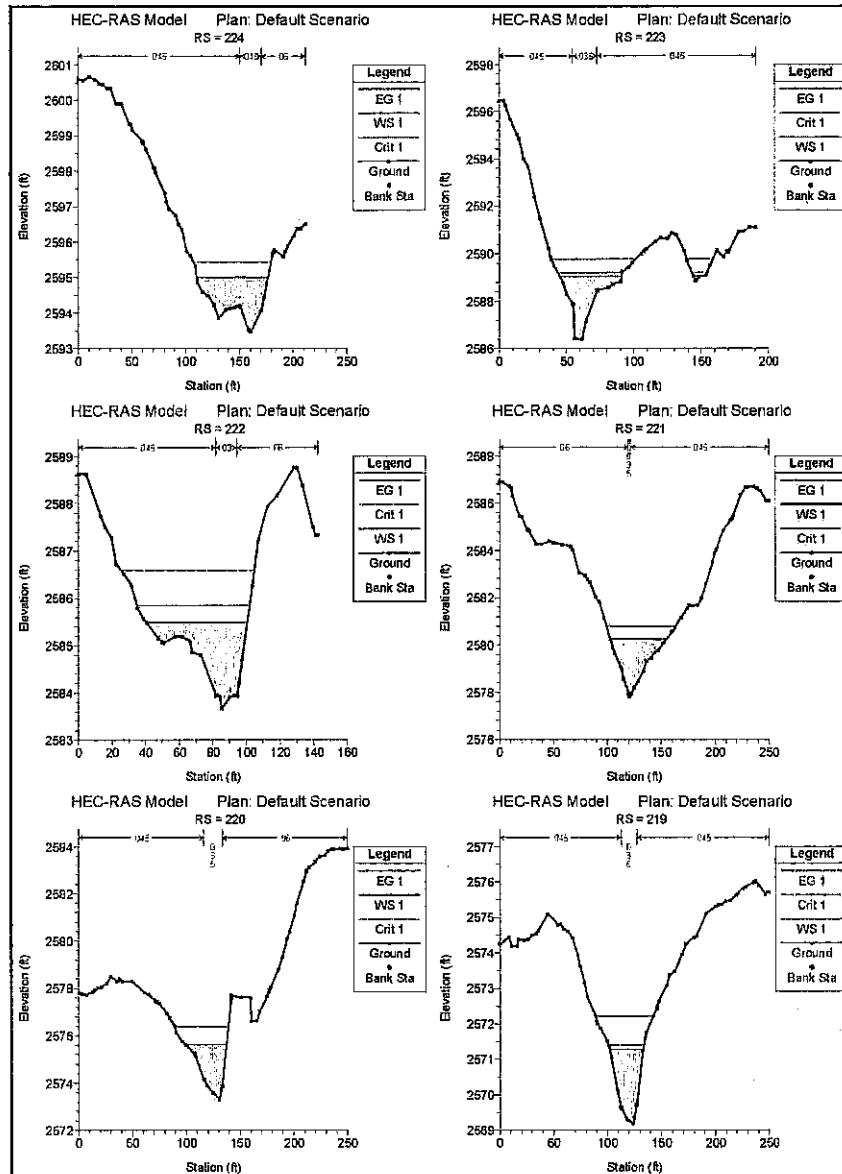
E.G. Elev (ft)	2471.94	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.14	Wt. n-Val.	0.045	0.045	0.045
W.S. Elev (ft)	2471.80	Reach Len. (ft)			
Crit W.S. (ft)	2471.69	Flow Area (sq ft)	60.33	34.78	4.51
E.G. Slope (ft/ft)	0.018296	Area (sq ft)	60.33	34.78	4.51
Q Total (cfs)	284.10	Flow (cfs)	154.44	120.66	9.00
Top Width (ft)	226.14	Top Width (ft)	149.86	50.78	25.50
Vel Total (ft/s)	2.85	Avg. Vel. (ft/s)	2.56	3.47	1.99
Max Chl Dpth (ft)	1.63	Hydr. Depth (ft)	0.40	0.68	0.18
Conv. Total (cfs)	2100.3	Conv. (cfs)	1141.8	892.1	66.5
Length Wtd. (ft)		Wetted Per. (ft)	150.27	50.79	25.53
Min Ch El (ft)	2470.96	Shear (lb/sq ft)	0.46	0.78	0.20
Alpha	1.08	Stream Power (lb/ft s)	350.00	0.00	0.00
Frctn Loss (ft)		Cum Volume (acre-ft)			
C & E Loss (ft)		Cum SA (acres)			

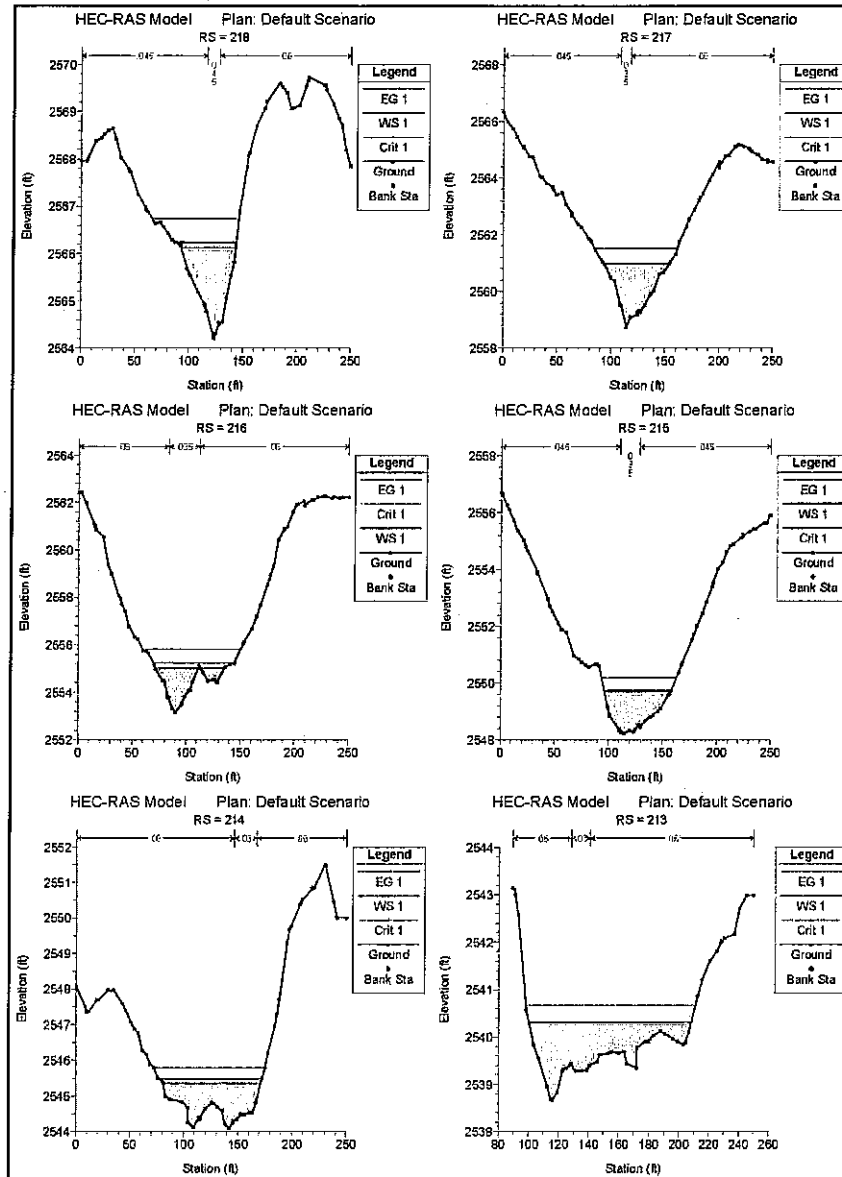
CROSS SECTION PLOTS

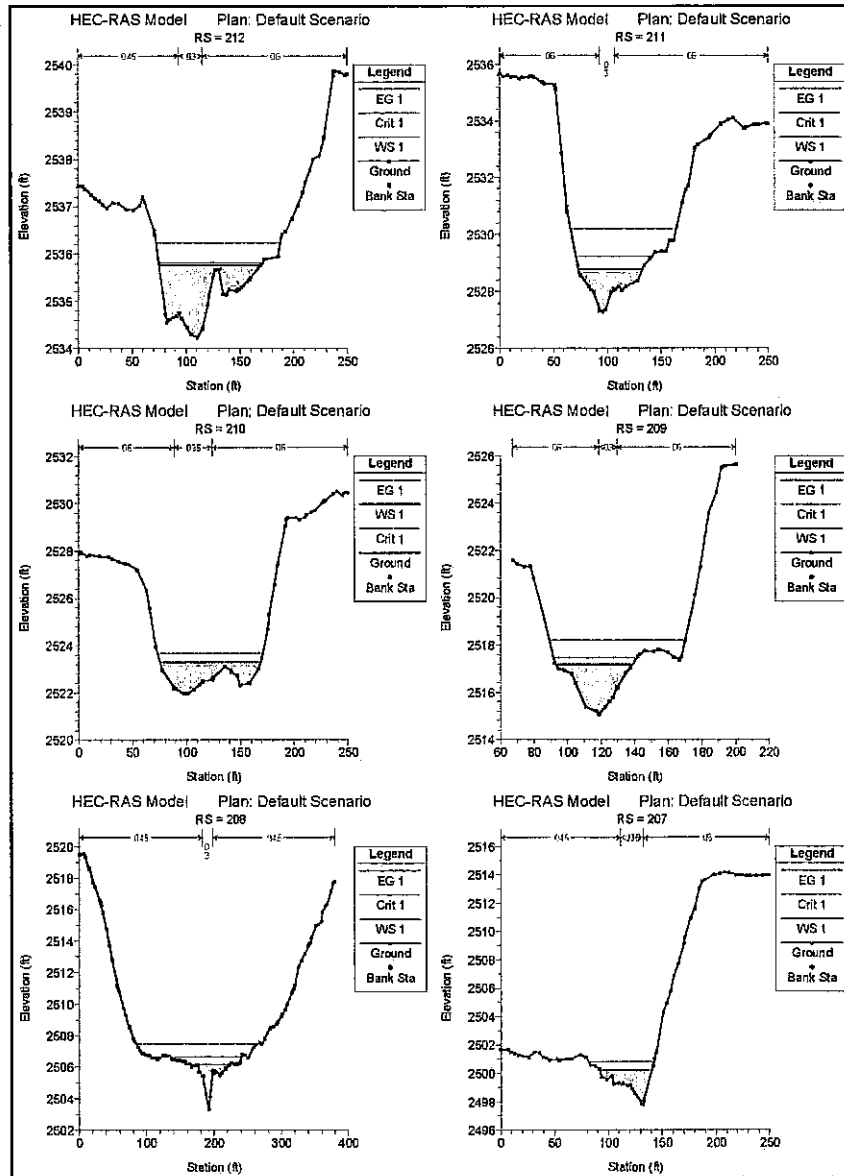


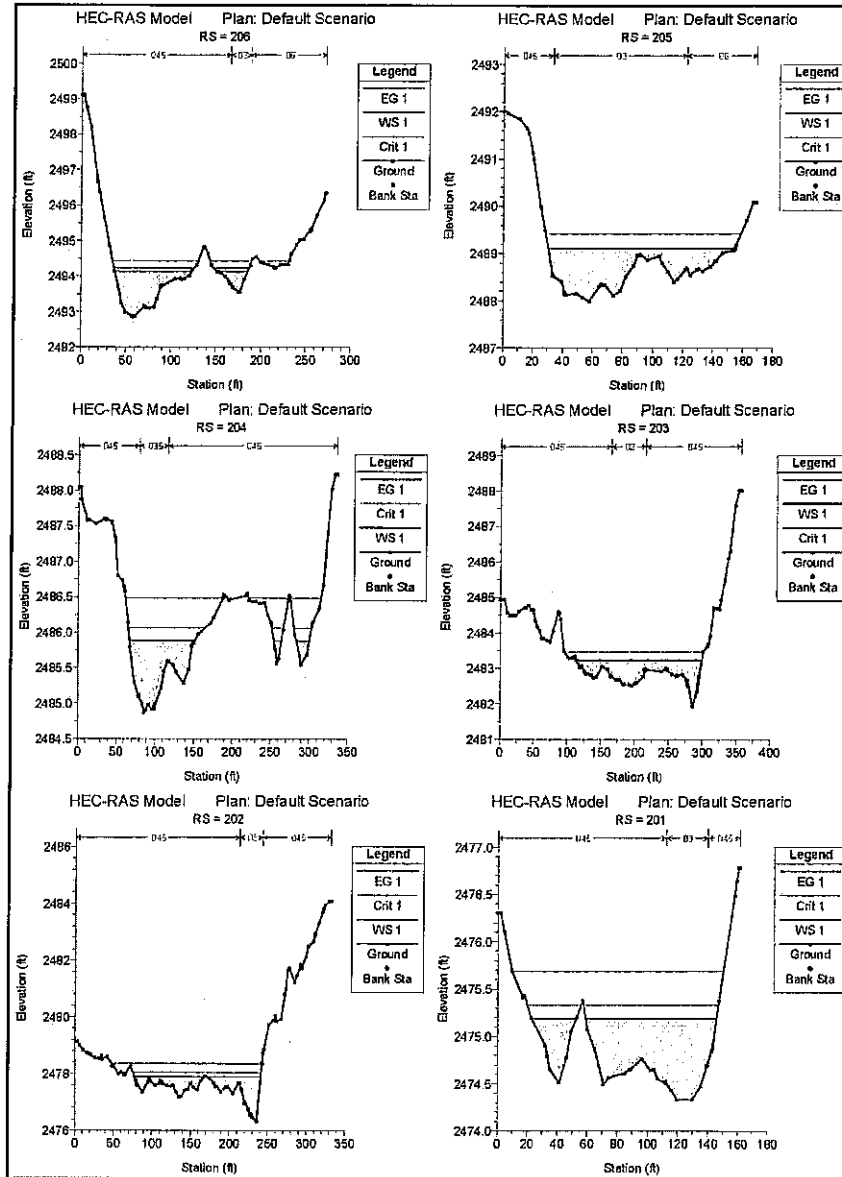


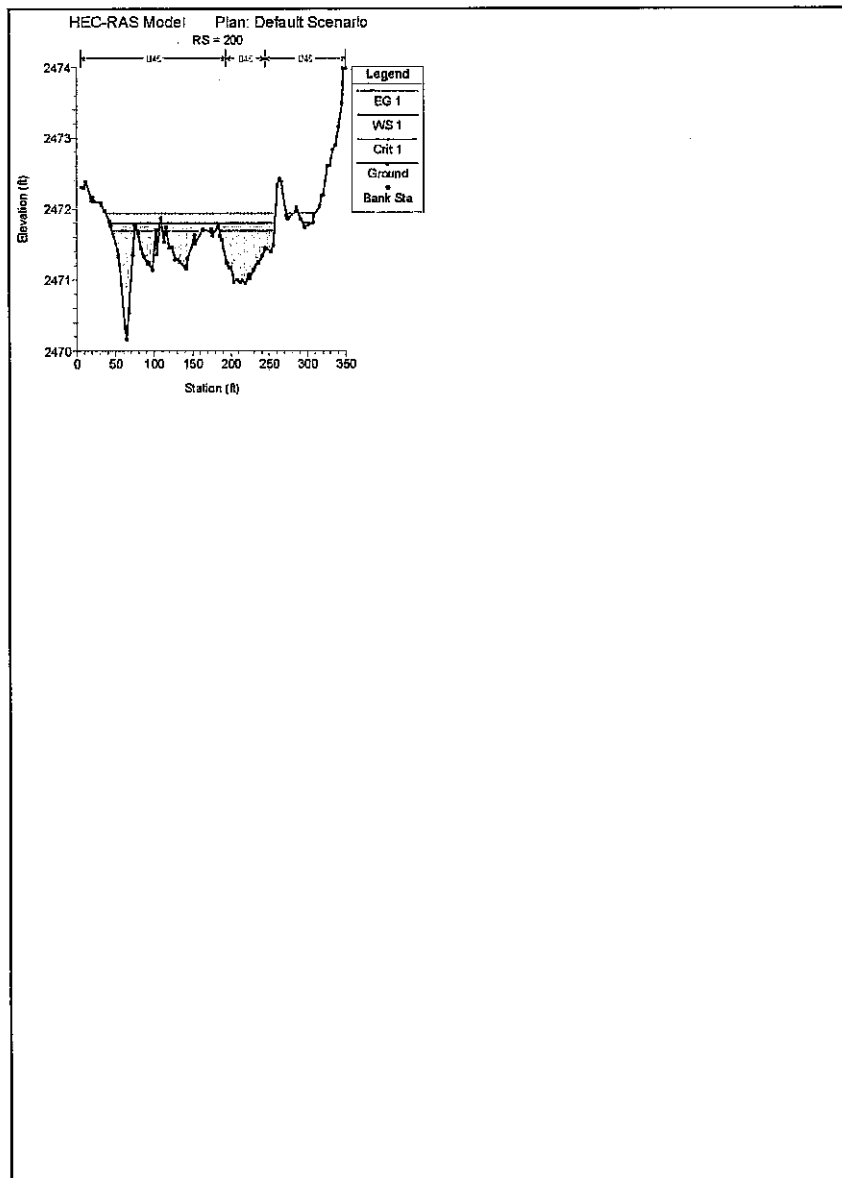




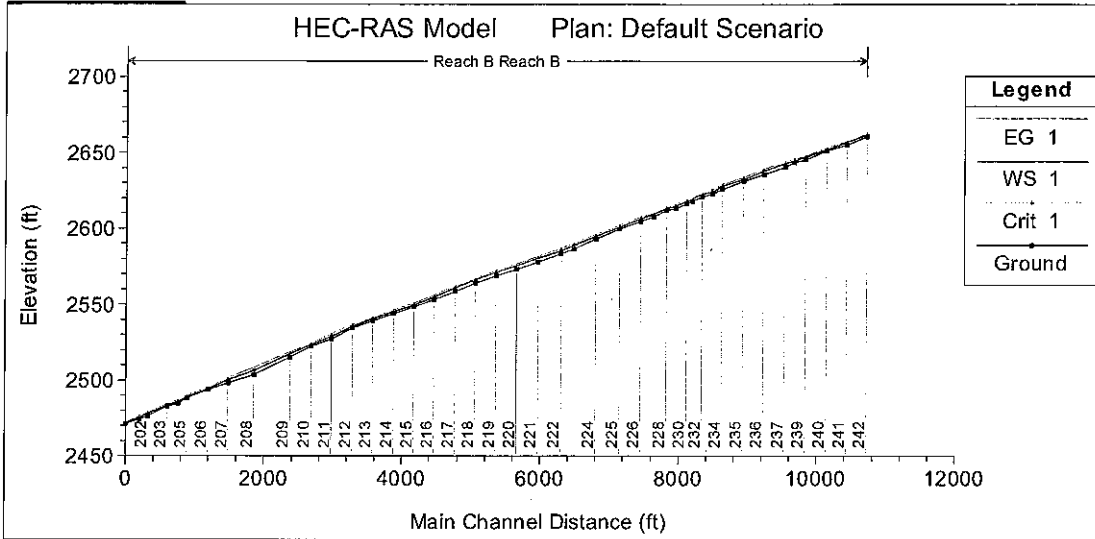








PROFILE PLOT



STANDARD TABLE 1

HEC-RAS Plan: Default Scenario River: Reach B Reach: Reach B Profile: 1

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	WS Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Reach B	242	1	284.10	2800.37	2801.71	2801.71	2802.02	0.021897	5.00	75.52	121.15	0.88
Reach B	241	1	284.10	2655.12	2858.94	2858.51	2857.09	0.010889	7.25	79.22	79.99	0.98
Reach B	240	1	284.10	2651.39	2852.24	2852.24	2852.48	0.024346	6.83	80.02	152.35	1.32
Reach B	239	1	284.10	2645.52	2847.18	2847.10	2847.48	0.011888	5.36	76.87	85.66	0.84
Reach B	238	1	284.10	2643.35	2845.00	2844.80	2845.25	0.016781	8.37	88.23	111.72	1.19
Reach B	237	1	284.10	2640.63	2842.75	2842.75	2843.28	0.018334	7.12	60.67	67.91	0.95
Reach B	236	1	284.10	2835.64	2837.94	2838.12	2839.83	0.016328	8.30	60.72	70.32	1.11
Reach B	235	1	284.10	2831.18	2832.94	2833.01	2833.33	0.018743	7.52	75.81	115.50	1.05
Reach B	234	1	284.10	2825.83	2828.18	2828.29	2828.74	0.014124	9.12	71.77	80.06	1.00
Reach B	233	1	284.10	2822.88	2824.44	2824.78	2825.45	0.035271	8.58	48.24	79.12	1.47
Reach B	232	1	284.10	2821.34	2822.66	2822.57	2822.81	0.022620	5.80	85.20	136.91	0.90
Reach B	231	1	284.10	2818.18	2819.93		2820.16	0.018378	5.72	88.82	101.18	0.80
Reach B	230	1	284.10	2815.20	2818.00	2817.88	2818.42	0.024615	5.86	58.28	66.10	0.84
Reach B	229	1	284.10	2813.47	2815.28	2815.05	2815.74	0.013398	7.07	84.81	117.81	0.95
Reach B	228	1	284.10	2811.75	2812.98	2812.98	2813.27	0.024874	7.23	81.18	121.21	1.20
Reach B	227	1	284.10	2808.00	2809.44	2809.21	2809.58	0.009474	4.74	117.09	146.57	0.75
Reach B	226	1	284.10	2804.50	2806.48	2806.48	2808.99	0.021811	6.32	56.33	57.36	0.92
Reach B	225	1	284.10	2809.80	2801.39	2801.14	2801.82	0.013309	4.44	77.58	85.44	0.70
Reach B	224	1	284.10	2803.48	2805.01	2805.01	2805.43	0.024668	6.00	57.98	68.80	0.95
Reach B	223	1	284.10	2808.39	2809.05	2809.18	2809.77	0.013223	7.21	48.27	53.49	0.93
Reach B	222	1	284.10	2803.66	2805.48	2805.85	2806.58	0.020305	9.78	47.52	80.17	1.35
Reach B	221	1	284.10	2807.78	2808.27	2808.26	2808.78	0.018428	10.28	58.68	52.38	1.17
Reach B	220	1	284.10	2878.28	2875.83	2875.83	2876.37	0.012051	7.39	47.77	38.74	0.92
Reach B	219	1	284.10	2869.18	2871.28	2871.41	2872.21	0.018308	8.33	41.88	31.25	1.08
Reach B	218	1	284.10	2864.21	2868.24	2868.12	2868.74	0.020881	7.05	57.73	56.66	0.93
Reach B	217	1	284.10	2858.75	2860.98	2860.98	2861.52	0.014811	7.90	65.18	81.04	1.01
Reach B	216	1	284.10	2853.17	2855.03	2855.28	2855.82	0.026347	7.53	49.02	83.28	1.22
Reach B	215	1	284.10	2848.24	2849.73	2849.71	2850.18	0.014811	6.50	60.05	81.82	0.88
Reach B	214	1	284.10	2844.27	2845.48	2845.35	2845.79	0.014408	5.86	81.53	95.83	1.05
Reach B	213	1	284.10	2839.28	2840.32	2840.32	2840.87	0.020788	7.17	78.52	108.21	1.26
Reach B	212	1	284.10	2834.23	2835.78	2835.81	2836.23	0.011181	8.42	70.75	94.67	0.87
Reach B	211	1	284.10	2827.30	2828.78	2828.23	2829.20	0.045055	11.80	43.09	58.38	1.80
Reach B	210	1	284.10	2821.85	2823.29	2823.28	2823.87	0.015655	5.58	71.80	93.55	0.95
Reach B	209	1	284.10	2815.08	2817.18	2817.46	2818.20	0.021287	9.97	49.01	46.04	1.38
Reach B	208	1	284.10	2803.35	2808.18	2808.64	2807.46	0.018277	9.71	41.21	68.28	1.29
Reach B	207	1	284.10	2487.80	2800.20	2800.22	2800.81	0.018343	6.97	57.48	48.15	1.02
Reach B	206	1	284.10	2483.55	2484.24	2484.14	2484.44	0.018350	3.99	79.04	130.84	1.04
Reach B	205	1	284.10	2487.88	2488.11	2488.11	2488.42	0.014523	4.55	68.98	124.24	0.98
Reach B	204	1	284.10	2484.87	2485.88	2486.08	2486.48	0.037205	7.02	53.71	111.36	1.39
Reach B	203	1	284.10	2482.51	2483.23	2483.23	2483.48	0.018145	4.71	88.15	185.83	1.08
Reach B	202	1	284.10	2478.32	2477.90	2478.04	2478.35	0.017381	8.50	74.58	182.24	1.14
Reach B	201	1	284.10	2474.33	2475.19	2475.38	2475.88	0.028082	7.04	81.42	118.97	1.40
Reach B	200	1	284.10	2470.86	2471.80	2471.89	2471.94	0.018288	3.47	98.82	226.14	0.74

STANDARD TABLE 2

HEC-RAS Plan: Default Scenario River: Reach B Reach: Reach B Profile: 1

Reach	River Sta	Profile	E.G. Elev (ft)	W.S. Elev (ft)	Vel Head (ft)	Frctn Loss (ft)	C & E Loss (ft)	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Top Width (ft)
Reach B	242	1	2662.02	2661.71	0.30	4.39	0.02	25.95	207.74	50.40	121.15
Reach B	241	1	2657.09	2656.84	0.24	4.60	0.00	186.71	24.09	63.30	79.99
Reach B	240	1	2652.49	2652.24	0.25	4.90	0.00	221.81	38.53	23.76	152.35
Reach B	239	1	2647.48	2647.19	0.29	2.21	0.01	135.25	142.57	6.28	95.86
Reach B	238	1	2645.25	2645.00	0.25	1.96	0.03	145.20	32.34	106.56	111.72
Reach B	237	1	2643.28	2642.75	0.52	3.88	0.02	99.79	163.27	21.03	57.91
Reach B	236	1	2638.63	2637.94	0.69	4.62	0.02	34.15	171.08	78.87	70.32
Reach B	235	1	2633.33	2632.94	0.39	5.21	0.09	145.27	95.73	43.10	115.50
Reach B	234	1	2628.74	2628.18	0.56	4.57	0.02	57.95	139.77	86.39	90.08
Reach B	233	1	2625.45	2624.44	1.00	3.26	0.04	28.82	164.97	70.31	78.12
Reach B	232	1	2622.91	2622.66	0.25	2.75	0.01	37.15	84.14	162.81	136.91
Reach B	231	1	2620.15	2619.93	0.22	1.71	0.02	31.55	76.80	175.75	101.19
Reach B	230	1	2618.42	2618.00	0.42	2.69	0.00	37.70	194.52	51.88	66.10
Reach B	229	1	2615.74	2615.28	0.46	2.42	0.04	39.04	155.25	89.81	117.61
Reach B	228	1	2613.27	2612.96	0.31	2.71	0.05	21.54	70.95	191.61	121.21
Reach B	227	1	2609.58	2609.44	0.14	2.59	0.04	193.40	78.39	12.31	146.57
Reach B	226	1	2606.96	2606.46	0.50	5.00	0.06	40.63	209.55	33.72	57.35
Reach B	225	1	2601.82	2601.39	0.22	6.15	0.02	19.32	112.34	152.43	85.44
Reach B	224	1	2595.43	2595.01	0.42	4.65	0.01	130.04	146.62	7.45	66.60
Reach B	223	1	2589.77	2589.05	0.72	5.64	0.03	18.51	248.49	17.10	53.49
Reach B	222	1	2586.59	2585.49	1.10	3.14	0.04	69.60	201.51	13.78	60.17
Reach B	221	1	2580.79	2580.27	0.52	4.39	0.02	73.93	48.03	162.13	52.39
Reach B	220	1	2576.37	2575.63	0.75	3.70	0.00	24.85	250.84	8.41	38.74
Reach B	219	1	2572.21	2571.28	0.93	4.15	0.02	33.11	235.10	15.89	31.25
Reach B	218	1	2566.74	2566.24	0.50	5.22	0.00	77.57	147.10	59.43	56.58
Reach B	217	1	2561.52	2560.98	0.54	4.12	0.02	26.23	136.00	121.88	61.04
Reach B	216	1	2555.82	2555.03	0.79	5.69	0.02	15.50	251.50	17.09	63.28
Reach B	215	1	2550.18	2549.73	0.46	4.35	0.05	46.78	164.80	72.52	61.92
Reach B	214	1	2545.79	2545.49	0.30	5.11	0.01	155.42	126.30	2.38	95.63
Reach B	213	1	2540.67	2540.32	0.36	4.06	0.01	107.80	89.89	86.42	108.21
Reach B	212	1	2536.23	2535.76	0.47	4.43	0.01	54.65	192.94	36.50	94.67
Reach B	211	1	2530.20	2528.78	1.42	5.93	0.09	54.00	182.36	47.75	59.98
Reach B	210	1	2523.67	2523.29	0.38	3.92	0.03	19.04	210.53	54.53	93.56
Reach B	209	1	2518.20	2517.18	1.02	5.40	0.06	100.10	174.01	9.99	46.04
Reach B	208	1	2507.46	2506.18	1.29	10.71	0.03	9.14	247.08	27.90	59.28
Reach B	207	1	2500.81	2500.20	0.60	6.45	0.20	44.38	211.65	28.08	48.15
Reach B	206	1	2494.44	2494.24	0.20	5.02	0.01	244.60	39.50	0.00	130.94
Reach B	205	1	2489.42	2489.11	0.31	2.05	0.00	1.57	288.80	13.92	124.24
Reach B	204	1	2488.43	2485.88	0.60	2.91	0.03	23.43	204.58	56.08	111.36
Reach B	203	1	2483.46	2483.23	0.23			32.30	143.96	107.84	165.83
Reach B	202	1	2478.35	2477.90	0.45	5.08	0.02	98.16	185.94		162.24
Reach B	201	1	2475.68	2475.19	0.49	2.66	0.00	126.43	152.68	4.78	116.97
Reach B	200	1	2471.94	2471.80	0.14			154.44	120.68	9.00	226.14

HYDRAULIC DEPTH TABLE

HEC-RAS Plan: Default Scenario River: Reach B Reach: Reach B Profile: 1

Reach	River Sta	Profile	Q Total (cfs)	W.S. Elev (ft)	Hydr Depth L (ft)	Hydr Depth C (ft)	Hydr Depth R (ft)	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)
Reach B	242	1	284.10	2651.71	0.34	1.04	0.47	25.95	207.74	50.40
Reach B	241	1	284.10	2656.84	1.14	1.89	0.73	196.71	24.09	63.30
Reach B	240	1	284.10	2652.24	0.53	0.83	0.42	221.81	39.53	23.76
Reach B	239	1	284.10	2647.19	0.72	1.26	0.37	135.25	142.57	6.28
Reach B	238	1	284.10	2645.00	0.80	1.56	0.75	145.20	32.34	108.56
Reach B	237	1	284.10	2642.75	0.84	1.76	0.86	99.79	163.27	21.03
Reach B	236	1	284.10	2637.94	0.64	1.74	0.70	34.15	171.08	78.87
Reach B	235	1	284.10	2632.94	0.62	1.61	0.51	145.27	95.73	43.10
Reach B	234	1	284.10	2628.18	0.63	2.06	0.71	57.95	139.77	86.39
Reach B	233	1	284.10	2624.44	0.37	1.32	0.55	28.82	184.97	70.31
Reach B	232	1	284.10	2622.66	0.32	1.20	0.85	37.15	84.14	162.81
Reach B	231	1	284.10	2619.93	0.74	1.58	0.83	31.55	76.80	175.75
Reach B	230	1	284.10	2618.00	0.53	1.21	0.84	37.70	194.52	51.88
Reach B	229	1	284.10	2615.28	0.49	1.74	0.68	39.04	155.25	89.81
Reach B	228	1	284.10	2612.96	0.43	1.12	0.87	21.54	70.95	191.61
Reach B	227	1	284.10	2609.44	0.82	1.23	0.41	193.40	78.39	12.31
Reach B	226	1	284.10	2606.46	0.64	1.48	0.69	40.83	209.55	33.72
Reach B	225	1	284.10	2601.39	0.68	1.26	0.82	19.32	112.34	152.43
Reach B	224	1	284.10	2595.01	0.75	1.25	0.49	130.04	146.62	7.45
Reach B	223	1	284.10	2589.05	0.65	1.88	0.33	18.51	248.49	17.10
Reach B	222	1	284.10	2585.49	0.53	1.64	0.78	68.80	201.51	13.79
Reach B	221	1	284.10	2580.27	1.17	2.41	1.05	73.93	48.03	162.13
Reach B	220	1	284.10	2575.63	0.57	1.98	0.88	24.85	250.84	8.41
Reach B	219	1	284.10	2571.28	0.84	1.91	0.77	33.11	235.10	15.89
Reach B	218	1	284.10	2566.24	0.70	1.80	1.04	77.57	147.10	59.43
Reach B	217	1	284.10	2560.98	0.59	1.90	1.07	26.23	136.00	121.88
Reach B	216	1	284.10	2555.03	0.52	1.18	0.37	15.50	251.50	17.09
Reach B	215	1	284.10	2548.73	0.89	1.41	0.74	46.78	164.80	72.52
Reach B	214	1	284.10	2545.49	0.85	1.00	0.32	155.42	126.30	2.38
Reach B	213	1	284.10	2540.32	1.04	1.01	0.54	107.80	89.89	86.42
Reach B	212	1	284.10	2535.78	0.92	1.36	0.44	54.65	192.94	36.50
Reach B	211	1	284.10	2528.78	0.67	1.18	0.53	54.00	182.36	47.75
Reach B	210	1	284.10	2523.29	0.83	1.08	0.57	19.04	210.53	54.53
Reach B	209	1	284.10	2517.18	1.04	1.63	0.48	100.10	174.01	9.99
Reach B	208	1	284.10	2508.18	0.28	1.76	0.42	9.14	247.06	27.90
Reach B	207	1	284.10	2500.20	0.68	1.46	1.10	44.38	211.65	28.08
Reach B	206	1	284.10	2494.24	0.64	0.46	0.01	244.60	39.50	0.00
Reach B	205	1	284.10	2489.11	0.30	0.66	0.31	1.57	268.60	13.92
Reach B	204	1	284.10	2485.88	0.49	0.79	0.30	23.43	204.59	56.08
Reach B	203	1	284.10	2483.23	0.31	0.59	0.48	32.30	143.96	107.84
Reach B	202	1	284.10	2477.90	0.34	1.00		98.16	185.94	
Reach B	201	1	284.10	2475.19	0.46	0.78	0.31	126.43	152.89	4.78
Reach B	200	1	284.10	2471.80	0.40	0.68	0.18	154.44	120.86	9.00

MANNING'S N-VALUE TABLE

HEC-RAS Plan: Default Scenario River: Reach B Reach: Reach B Profile: 1

Reach	River Sta	Profile	Q Total (cfs)	Mann Wtd Left	Mann Wtd Chnl	Mann Wtd Right	Mann Wtd Total
Reach B	242	1	284.10	0.045	0.045	0.080	0.042
Reach B	241	1	284.10	0.045	0.030	0.045	0.043
Reach B	240	1	284.10	0.045	0.030	0.045	0.042
Reach B	239	1	284.10	0.045	0.035	0.045	0.038
Reach B	238	1	284.10	0.060	0.030	0.045	0.050
Reach B	237	1	284.10	0.045	0.035	0.060	0.038
Reach B	236	1	284.10	0.045	0.035	0.060	0.039
Reach B	235	1	284.10	0.045	0.035	0.045	0.039
Reach B	234	1	284.10	0.060	0.035	0.045	0.038
Reach B	233	1	284.10	0.060	0.035	0.045	0.034
Reach B	232	1	284.10	0.060	0.045	0.060	0.049
Reach B	231	1	284.10	0.060	0.045	0.060	0.054
Reach B	230	1	284.10	0.045	0.045	0.060	0.045
Reach B	229	1	284.10	0.060	0.036	0.060	0.041
Reach B	228	1	284.10	0.045	0.035	0.060	0.051
Reach B	227	1	284.10	0.060	0.035	0.060	0.051
Reach B	226	1	284.10	0.045	0.045	0.060	0.043
Reach B	225	1	284.10	0.045	0.045	0.045	0.044
Reach B	224	1	284.10	0.045	0.045	0.060	0.043
Reach B	223	1	284.10	0.045	0.035	0.045	0.028
Reach B	222	1	284.10	0.045	0.030	0.060	0.030
Reach B	221	1	284.10	0.060	0.035	0.045	0.046
Reach B	220	1	284.10	0.045	0.035	0.060	0.031
Reach B	219	1	284.10	0.045	0.035	0.045	0.033
Reach B	218	1	284.10	0.045	0.045	0.060	0.044
Reach B	217	1	284.10	0.045	0.035	0.060	0.043
Reach B	216	1	284.10	0.060	0.035	0.060	0.033
Reach B	215	1	284.10	0.045	0.035	0.045	0.037
Reach B	214	1	284.10	0.060	0.030	0.060	0.048
Reach B	213	1	284.10	0.060	0.030	0.060	0.048
Reach B	212	1	284.10	0.045	0.030	0.060	0.032
Reach B	211	1	284.10	0.060	0.030	0.060	0.038
Reach B	210	1	284.10	0.060	0.035	0.060	0.039
Reach B	209	1	284.10	0.060	0.030	0.060	0.039
Reach B	208	1	284.10	0.045	0.030	0.045	0.023
Reach B	207	1	284.10	0.045	0.035	0.060	0.037
Reach B	206	1	284.10	0.045	0.030	0.060	0.040
Reach B	205	1	284.10	0.045	0.030	0.060	0.030
Reach B	204	1	284.10	0.045	0.036	0.045	0.033
Reach B	203	1	284.10	0.045	0.030	0.045	0.036
Reach B	202	1	284.10	0.045	0.030		0.031
Reach B	201	1	284.10	0.045	0.030	0.045	0.035
Reach B	200	1	284.10	0.045	0.045	0.045	0.041

WATERHSED C

HEC-RAS OUTPUT

Plan: Default Scenario Reach C Reach C RS: 328 Profile: 1

E.G. Elev (ft)	2580.91	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.71	Wt. n-Val.	0.045	0.030	0.045
W.S. Elev (ft)	2580.20	Reach Len. (ft)	293.50	293.50	293.50
Crit W.S. (ft)	2580.32	Flow Area (sq ft)	1.20	53.11	0.96
E.G. Slope (ft/ft)	0.017316	Area (sq ft)	1.20	53.11	0.96
Q Total (cfs)	364.40	Flow (cfs)	2.00	360.60	1.80
Top Width (ft)	58.09	Top Width (ft)	5.02	49.76	3.31
Vel Total (ft/s)	6.59	Avg. Vel. (ft/s)	1.67	6.79	1.88
Max Chl Dpth (ft)	1.66	Hydr. Depth (ft)	0.24	1.07	0.29
Conv. Total (cfs)	2769.2	Conv. (cfs)	15.2	2740.4	13.7
Length Wtd. (ft)	293.50	Wetted Per. (ft)	5.04	49.95	3.36
Min Ch El (ft)	2578.54	Shear (lb/sq ft)	0.26	1.15	0.31
Alpha	1.05	Stream Power (lb/ft s)	250.00	0.00	0.00
Frctn Loss (ft)		Cum Volume (acre-ft)	2.83	5.57	1.24
C & E Loss (ft)		Cum SA (acres)	5.57	7.81	4.15

Plan: Default Scenario Reach C Reach C RS: 327 Profile: 1

E.G. Elev (ft)	2576.84	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.94	Wt. n-Val.	0.045	0.030	0.045
W.S. Elev (ft)	2575.90	Reach Len. (ft)	293.50	293.50	293.50
Crit W.S. (ft)	2575.95	Flow Area (sq ft)	3.74	42.51	4.02
E.G. Slope (ft/ft)	0.011241	Area (sq ft)	3.74	42.51	4.02
Q Total (cfs)	364.40	Flow (cfs)	11.22	340.49	12.69
Top Width (ft)	31.26	Top Width (ft)	4.42	22.54	4.30
Vel Total (ft/s)	7.25	Avg. Vel. (ft/s)	3.00	8.01	3.16
Max Chl Dpth (ft)	2.04	Hydr. Depth (ft)	0.85	1.89	0.93
Conv. Total (cfs)	3437.0	Conv. (cfs)	105.8	3211.5	119.7
Length Wtd. (ft)	293.50	Wetted Per. (ft)	4.71	22.57	4.69
Min Ch El (ft)	2573.86	Shear (lb/sq ft)	0.56	1.32	0.60
Alpha	1.15	Stream Power (lb/ft s)	250.00	0.00	0.00
Frctn Loss (ft)	4.05	Cum Volume (acre-ft)	2.81	5.24	1.22
C & E Loss (ft)	0.02	Cum SA (acres)	5.54	7.57	4.12

Plan: Default Scenario Reach C Reach C RS: 326 Profile: 1

E.G. Elev (ft)	2572.03	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.58	Wt. n-Val.	0.045	0.030	
W.S. Elev (ft)	2571.46	Reach Len. (ft)	294.24	294.24	294.24
Crit W.S. (ft)	2571.58	Flow Area (sq ft)	0.27	59.63	
E.G. Slope (ft/ft)	0.024565	Area (sq ft)	0.27	59.63	
Q Total (cfs)	364.40	Flow (cfs)	0.44	363.96	
Top Width (ft)	87.04	Top Width (ft)	1.59	85.46	
Vel Total (ft/s)	6.08	Avg. Vel. (ft/s)	1.58	6.10	
Max Chl Dpth (ft)	1.06	Hydr. Depth (ft)	0.17	0.70	
Conv. Total (cfs)	2325.0	Conv. (cfs)	2.8	2322.2	
Length Wtd. (ft)	294.24	Wetted Per. (ft)	1.63	85.53	
Min Ch El (ft)	2570.40	Shear (lb/sq ft)	0.26	1.07	
Alpha	1.01	Stream Power (lb/ft s)	250.00	0.00	0.00
Frctn Loss (ft)	4.70	Cum Volume (acre-ft)	2.80	4.90	1.21
C & E Loss (ft)	0.11	Cum SA (acres)	5.52	7.21	4.11

Plan: Default Scenario Reach C Reach C RS: 325 Profile: 1

E.G. Elev (ft)	2566.44	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.45	Wt. n-Val.	0.045	0.030	0.045
W.S. Elev (ft)	2565.99	Reach Len. (ft)	292.76	292.76	292.76
Crit W.S. (ft)	2566.05	Flow Area (sq ft)	0.42	63.54	4.75
E.G. Slope (ft/ft)	0.019778	Area (sq ft)	0.42	63.54	4.75
Q Total (cfs)	364.40	Flow (cfs)	0.80	347.52	16.07
Top Width (ft)	100.18	Top Width (ft)	1.43	91.19	7.56
Vel Total (ft/s)	5.30	Avg. Vel. (ft/s)	1.94	5.47	3.38
Max Chl Dpth (ft)	1.19	Hydr. Depth (ft)	0.29	0.70	0.63
Conv. Total (cfs)	2591.1	Conv. (cfs)	5.7	2471.1	114.3
Length Wtd. (ft)		Wetted Per. (ft)	1.54	91.32	7.64
Min Ch El (ft)	2564.80	Shear (lb/sq ft)	0.33	0.86	0.77
Alpha	1.03	Stream Power (lb/ft s)	291.34	0.00	0.00
Frctn Loss (ft)	5.60	Cum Volume (acre-ft)	2.80	4.48	1.19
C & E Loss (ft)	0.06	Cum SA (acres)	5.51	6.61	4.08

Plan: Default Scenario Reach C Reach C RS: 324 Profile: 1

E.G. Elev (ft)	2560.95	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.38	Wt. n-Val.	0.060	0.030	0.045
W.S. Elev (ft)	2560.57	Reach Len. (ft)	281.70	281.70	281.70
Crit W.S. (ft)	2560.57	Flow Area (sq ft)	42.18	31.85	1.25
E.G. Slope (ft/ft)	0.019597	Area (sq ft)	42.18	31.85	1.25
Q Total (cfs)	364.40	Flow (cfs)	223.09	140.16	1.15
Top Width (ft)	99.74	Top Width (ft)	21.99	62.58	15.18
Vel Total (ft/s)	4.84	Avg. Vel. (ft/s)	5.29	4.40	0.92
Max Chl Dpth (ft)	2.32	Hydr. Depth (ft)	1.92	0.51	0.08
Conv. Total (cfs)	2603.1	Conv. (cfs)	1593.6	1001.3	8.2
Length Wtd. (ft)	281.70	Wetted Per. (ft)	22.39	62.99	15.19
Min Ch El (ft)	2558.28	Shear (lb/sq ft)	2.30	0.62	0.10
Alpha	1.05	Stream Power (lb/ft s)	250.00	0.00	0.00
Frctn Loss (ft)		Cum Volume (acre-ft)	2.65	4.16	1.17
C & E Loss (ft)		Cum SA (acres)	5.43	6.09	4.01

Plan: Default Scenario Reach C Reach C RS: 323 Profile: 1

E.G. Elev (ft)	2555.02	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.42	Wt. n-Val.	0.045	0.030	0.045
W.S. Elev (ft)	2554.60	Reach Len. (ft)	290.84	290.84	290.84
Crit W.S. (ft)	2554.70	Flow Area (sq ft)	0.08	68.50	4.30
E.G. Slope (ft/ft)	0.022659	Area (sq ft)	0.08	68.50	4.30
Q Total (cfs)	364.40	Flow (cfs)	0.05	358.07	6.28
Top Width (ft)	149.10	Top Width (ft)	1.81	116.53	30.76
Vel Total (ft/s)	5.00	Avg. Vel. (ft/s)	0.62	5.23	1.46
Max Chl Dpth (ft)	1.34	Hydr. Depth (ft)	0.04	0.59	0.14
Conv. Total (cfs)	2420.8	Conv. (cfs)	0.3	2378.7	41.7
Length Wtd. (ft)	290.84	Wetted Per. (ft)	1.81	116.67	30.79
Min Ch El (ft)	2553.26	Shear (lb/sq ft)	0.06	0.83	0.20
Alpha	1.08	Stream Power (lb/ft s)	371.01	0.00	0.00
Frctn Loss (ft)	5.93	Cum Volume (acre-ft)	2.52	3.84	1.15
C & E Loss (ft)	0.00	Cum SA (acres)	5.35	5.51	3.86

Plan: Default Scenario Reach C Reach C RS: 322 Profile: 1

E.G. Elev (ft)	2549.13	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.50	Wt. n-Val.	0.060	0.030	0.045
W.S. Elev (ft)	2548.64	Reach Len. (ft)	131.40	131.40	131.40
Crit W.S. (ft)	2548.74	Flow Area (sq ft)	1.89	50.69	18.52
E.G. Slope (ft/ft)	0.018120	Area (sq ft)	1.89	50.69	18.52
Q Total (cfs)	364.40	Flow (cfs)	1.82	306.43	56.15
Top Width (ft)	104.47	Top Width (ft)	13.14	58.64	32.69
Vel Total (ft/s)	5.13	Avg. Vel. (ft/s)	0.97	6.04	3.03
Max Chl Dpth (ft)	1.26	Hydr. Depth (ft)	0.14	0.86	0.57
Conv. Total (cfs)	2707.1	Conv. (cfs)	13.5	2276.4	417.1
Length Wtd. (ft)	131.40	Wetted Per. (ft)	13.17	58.72	32.89
Min Ch El (ft)	2547.37	Shear (lb/sq ft)	0.16	0.98	0.64
Alpha	1.22	Stream Power (lb/ft s)	331.40	0.00	0.00
Frctn Loss (ft)	5.87	Cum Volume (acre-ft)	2.51	3.44	1.08
C & E Loss (ft)	0.01	Cum SA (acres)	5.30	4.93	3.65

Plan: Default Scenario Reach C Reach C RS: 321 Profile: 1

E.G. Elev (ft)	2546.60	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.47	Wt. n-Val.	0.060	0.030	0.045
W.S. Elev (ft)	2546.13	Reach Len. (ft)	316.08	316.08	316.08
Crit W.S. (ft)	2546.22	Flow Area (sq ft)	42.43	24.76	16.22
E.G. Slope (ft/ft)	0.020596	Area (sq ft)	42.43	24.76	16.22
Q Total (cfs)	364.40	Flow (cfs)	152.12	176.50	35.78
Top Width (ft)	121.17	Top Width (ft)	41.81	24.26	55.10
Vel Total (ft/s)	4.37	Avg. Vel. (ft/s)	3.59	7.13	2.21
Max Chl Dpth (ft)	1.42	Hydr. Depth (ft)	1.01	1.02	0.29
Conv. Total (cfs)	2539.1	Conv. (cfs)	1060.0	1229.8	249.3
Length Wtd. (ft)	316.08	Wetted Per. (ft)	41.87	24.66	55.21
Min Ch El (ft)	2544.77	Shear (lb/sq ft)	1.30	1.29	0.38
Alpha	1.60	Stream Power (lb/ft s)	404.97	0.00	0.00
Frctn Loss (ft)	2.54	Cum Volume (acre-ft)	2.44	3.33	1.02
C & E Loss (ft)	0.01	Cum SA (acres)	5.22	4.80	3.51

Plan: Default Scenario Reach C Reach C RS: 320 Profile: 1

E.G. Elev (ft)	2540.12	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.45	Wt. n-Val.	0.045	0.030	0.045
W.S. Elev (ft)	2539.67	Reach Len. (ft)	181.71	181.71	181.71
Crit W.S. (ft)	2539.77	Flow Area (sq ft)	22.56	36.72	10.32
E.G. Slope (ft/ft)	0.037522	Area (sq ft)	22.56	36.72	10.32
Q Total (cfs)	364.40	Flow (cfs)	128.79	199.23	36.38
Top Width (ft)	143.84	Top Width (ft)	26.62	86.31	30.91
Vel Total (ft/s)	5.24	Avg. Vel. (ft/s)	5.71	5.43	3.53
Max Chl Dpth (ft)	1.11	Hydr. Depth (ft)	0.85	0.43	0.33
Conv. Total (cfs)	1881.2	Conv. (cfs)	664.9	1028.5	187.8
Length Wtd. (ft)	181.71	Wetted Per. (ft)	26.76	86.34	31.13
Min Ch El (ft)	2538.95	Shear (lb/sq ft)	1.97	1.00	0.78
Alpha	1.05	Stream Power (lb/ft s)	218.93	0.00	0.00
Frctn Loss (ft)	6.57	Cum Volume (acre-ft)	2.21	3.10	0.93
C & E Loss (ft)	0.05	Cum SA (acres)	4.97	4.40	3.20

Plan: Default Scenario Reach C Reach C RS: 319 Profile: 1

E.G. Elev (ft)	2535.41	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.24	Wt. n-Val.	0.045	0.030	0.045
W.S. Elev (ft)	2535.17	Reach Len. (ft)	204.26	204.26	204.26
Crit W.S. (ft)	2535.22	Flow Area (sq ft)	17.63	25.47	69.92
E.G. Slope (ft/ft)	0.026585	Area (sq ft)	17.63	25.47	69.92
Q Total (cfs)	364.40	Flow (cfs)	38.15	137.25	189.00
Top Width (ft)	318.85	Top Width (ft)	73.36	46.70	198.80
Vel Total (ft/s)	3.22	Avg. Vel. (ft/s)	2.16	5.39	2.70
Max Chl Dpth (ft)	1.02	Hydr. Depth (ft)	0.24	0.55	0.35
Conv. Total (cfs)	2234.9	Conv. (cfs)	234.0	841.8	1159.2
Length Wtd. (ft)	204.26	Wetted Per. (ft)	73.37	46.71	198.96
Min Ch El (ft)	2534.53	Shear (lb/sq ft)	0.40	0.90	0.58
Alpha	1.46	Stream Power (lb/ft s)	467.71	0.00	0.00
Frctn Loss (ft)	4.69	Cum Volume (acre-ft)	2.12	2.97	0.76
C & E Loss (ft)	0.08	Cum SA (acres)	4.76	4.12	2.72

Plan: Default Scenario Reach C Reach C RS: 318 Profile: 1

E.G. Elev (ft)	2530.11	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.56	Wt. n-Val.	0.060	0.030	0.045
W.S. Elev (ft)	2529.55	Reach Len. (ft)	485.68	485.68	485.68
Crit W.S. (ft)	2529.68	Flow Area (sq ft)	36.76	25.26	12.49
E.G. Slope (ft/ft)	0.025038	Area (sq ft)	36.76	25.26	12.49
Q Total (cfs)	364.40	Flow (cfs)	154.12	187.36	22.92
Top Width (ft)	120.49	Top Width (ft)	33.10	27.40	59.98
Vel Total (ft/s)	4.89	Avg. Vel. (ft/s)	4.19	7.42	1.84
Max Chl Dpth (ft)	1.45	Hydr. Depth (ft)	1.11	0.92	0.21
Conv. Total (cfs)	2302.9	Conv. (cfs)	974.0	1184.1	144.9
Length Wtd. (ft)	485.68	Wetted Per. (ft)	33.22	27.43	60.01
Min Ch El (ft)	2528.18	Shear (lb/sq ft)	1.73	1.44	0.33
Alpha	1.50	Stream Power (lb/ft s)	218.87	0.00	0.00
Frctn Loss (ft)	5.27	Cum Volume (acre-ft)	2.00	2.86	0.57
C & E Loss (ft)	0.03	Cum SA (acres)	4.52	3.95	2.12

Plan: Default Scenario Reach C Reach C RS: 317 Profile: 1

E.G. Elev (ft)	2519.25	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.68	Wt. n-Val.	0.045	0.030	0.045
W.S. Elev (ft)	2518.58	Reach Len. (ft)	189.95	189.95	189.95
Crit W.S. (ft)	2518.83	Flow Area (sq ft)	43.42	30.28	14.22
E.G. Slope (ft/ft)	0.020025	Area (sq ft)	43.42	30.28	14.22
Q Total (cfs)	364.40	Flow (cfs)	98.07	241.32	25.01
Top Width (ft)	224.09	Top Width (ft)	129.46	24.98	69.65
Vel Total (ft/s)	4.14	Avg. Vel. (ft/s)	2.26	7.97	1.76
Max Chl Dpth (ft)	1.27	Hydr. Depth (ft)	0.34	1.21	0.20
Conv. Total (cfs)	2575.1	Conv. (cfs)	693.0	1705.3	176.7
Length Wtd. (ft)	189.95	Wetted Per. (ft)	129.53	24.98	69.72
Min Ch El (ft)	2517.31	Shear (lb/sq ft)	0.42	1.52	0.26
Alpha	2.54	Stream Power (lb/ft s)	458.16	0.00	0.00
Frctn Loss (ft)	10.84	Cum Volume (acre-ft)	1.55	2.55	0.42
C & E Loss (ft)	0.01	Cum SA (acres)	3.61	3.66	1.39

Plan: Default Scenario Reach C Reach C RS: 316 Profile: 1

E.G. Elev (ft)	2514.89	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.50	Wt. n-Val.	0.045	0.030	0.045
W.S. Elev (ft)	2514.39	Reach Len. (ft)	266.37	266.37	266.37
Crit W.S. (ft)	2514.51	Flow Area (sq ft)	43.60	39.70	0.52
E.G. Slope (ft/ft)	0.025990	Area (sq ft)	43.60	39.70	0.52
Q Total (cfs)	364.40	Flow (cfs)	103.23	260.79	0.38
Top Width (ft)	214.87	Top Width (ft)	151.60	53.10	10.18
Vel Total (ft/s)	4.35	Avg. Vel. (ft/s)	2.37	6.57	0.73
Max Chl Dpth (ft)	1.23	Hydr. Depth (ft)	0.29	0.75	0.05
Conv. Total (cfs)	2260.4	Conv. (cfs)	640.3	1617.7	2.4
Length Wtd. (ft)	266.37	Wetted Per. (ft)	151.74	53.19	10.18
Min Ch El (ft)	2513.16	Shear (lb/sq ft)	0.47	1.21	0.08
Alpha	1.72	Stream Power (lb/ft s)	426.54	0.00	0.00
Frctn Loss (ft)	4.32	Cum Volume (acre-ft)	1.36	2.39	0.39
C & E Loss (ft)	0.05	Cum SA (acres)	3.00	3.49	1.22

Plan: Default Scenario Reach C Reach C RS: 315 Profile: 1

E.G. Elev (ft)	2508.20	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.57	Wt. n-Val.	0.060	0.030	0.045
W.S. Elev (ft)	2507.62	Reach Len. (ft)	127.97	127.97	127.97
Crit W.S. (ft)	2507.73	Flow Area (sq ft)	26.22	38.89	2.55
E.G. Slope (ft/ft)	0.024257	Area (sq ft)	26.22	38.89	2.55
Q Total (cfs)	364.40	Flow (cfs)	98.42	263.02	2.97
Top Width (ft)	98.43	Top Width (ft)	27.20	47.34	23.89
Vel Total (ft/s)	5.39	Avg. Vel. (ft/s)	3.75	6.76	1.17
Max Chl Dpth (ft)	1.38	Hydr. Depth (ft)	0.96	0.82	0.11
Conv. Total (cfs)	2339.7	Conv. (cfs)	631.9	1688.7	19.0
Length Wtd. (ft)	127.97	Wetted Per. (ft)	27.31	47.38	23.90
Min Ch El (ft)	2506.24	Shear (lb/sq ft)	1.45	1.24	0.16
Alpha	1.27	Stream Power (lb/ft s)	250.00	0.00	0.00
Frctn Loss (ft)	6.69	Cum Volume (acre-ft)	1.14	2.15	0.38
C & E Loss (ft)	0.01	Cum SA (acres)	2.45	3.18	1.12

Plan: Default Scenario Reach C Reach C RS: 314 Profile: 1

E.G. Elev (ft)	2505.25	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.42	Wt. n-Val.	0.045	0.030	
W.S. Elev (ft)	2504.83	Reach Len. (ft)	100.41	100.41	100.41
Crit W.S. (ft)	2504.89	Flow Area (sq ft)	41.31	35.01	
E.G. Slope (ft/ft)	0.021156	Area (sq ft)	41.31	35.01	
Q Total (cfs)	364.40	Flow (cfs)	150.65	213.75	
Top Width (ft)	121.32	Top Width (ft)	76.49	44.83	
Vel Total (ft/s)	4.77	Avg. Vel. (ft/s)	3.65	6.11	
Max Chl Dpth (ft)	1.35	Hydr. Depth (ft)	0.54	0.78	
Conv. Total (cfs)	2505.3	Conv. (cfs)	1035.8	1469.6	
Length Wtd. (ft)	100.41	Wetted Per. (ft)	76.76	44.86	
Min Ch El (ft)	2503.48	Shear (lb/sq ft)	0.71	1.03	
Alpha	1.20	Stream Power (lb/ft s)	277.06	0.00	0.00
Frctn Loss (ft)	2.90	Cum Volume (acre-ft)	1.05	2.04	0.37
C & E Loss (ft)	0.04	Cum SA (acres)	2.30	3.05	1.08

Plan: Default Scenario Reach C Reach C RS: 313 Profile: 1

E.G. Elev (ft)	2503.29	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.54	Wt. n-Val.	0.045	0.030	
W.S. Elev (ft)	2502.75	Reach Len. (ft)	136.28	136.28	136.28
Crit W.S. (ft)	2502.84	Flow Area (sq ft)	7.91	56.56	
E.G. Slope (ft/ft)	0.018043	Area (sq ft)	7.91	56.56	
Q Total (cfs)	364.40	Flow (cfs)	22.76	341.64	
Top Width (ft)	80.45	Top Width (ft)	15.09	65.35	
Vel Total (ft/s)	5.65	Avg. Vel. (ft/s)	2.88	6.04	
Max Chl Dpth (ft)	1.16	Hydr. Depth (ft)	0.52	0.87	
Conv. Total (cfs)	2712.8	Conv. (cfs)	169.4	2543.4	
Length Wtd. (ft)	136.28	Wetted Per. (ft)	15.15	65.39	
Min Ch El (ft)	2501.59	Shear (lb/sq ft)	0.59	0.97	
Alpha	1.09	Stream Power (lb/ft s)	277.95	0.00	0.00
Frctn Loss (ft)	1.96	Cum Volume (acre-ft)	0.99	1.94	0.37
C & E Loss (ft)	0.01	Cum SA (acres)	2.19	2.92	1.08

Plan: Default Scenario Reach C Reach C RS: 312 Profile: 1

E.G. Elev (ft)	2500.48	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.52	Wt. n-Val.	0.045	0.030	
W.S. Elev (ft)	2499.96	Reach Len. (ft)	229.43	229.43	229.43
Crit W.S. (ft)	2500.07	Flow Area (sq ft)	19.14	45.46	
E.G. Slope (ft/ft)	0.023632	Area (sq ft)	19.14	45.46	
Q Total (cfs)	364.40	Flow (cfs)	83.86	280.54	
Top Width (ft)	85.99	Top Width (ft)	23.80	62.19	
Vel Total (ft/s)	5.64	Avg. Vel. (ft/s)	4.38	6.17	
Max Chl Dpth (ft)	1.14	Hydr. Depth (ft)	0.80	0.73	
Conv. Total (cfs)	2370.4	Conv. (cfs)	545.5	1824.9	
Length Wtd. (ft)		Wetted Per. (ft)	23.86	62.29	
Min Ch El (ft)	2498.82	Shear (lb/sq ft)	1.18	1.08	
Alpha	1.06	Stream Power (lb/ft s)	156.48	0.00	0.00
Frctn Loss (ft)	2.80	Cum Volume (acre-ft)	0.95	1.78	0.37
C & E Loss (ft)	0.00	Cum SA (acres)	2.13	2.72	1.08

Plan: Default Scenario Reach C Reach C RS: 311 Profile: 1

E.G. Elev (ft)	2495.30	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.25	Wt. n-Val.	0.045	0.035	0.045
W.S. Elev (ft)	2495.05	Reach Len. (ft)	286.41	286.41	286.41
Crit W.S. (ft)	2495.05	Flow Area (sq ft)	33.14	60.97	0.99
E.G. Slope (ft/ft)	0.023010	Area (sq ft)	33.14	60.97	0.99
Q Total (cfs)	364.40	Flow (cfs)	99.58	263.42	1.40
Top Width (ft)	188.82	Top Width (ft)	71.26	110.89	6.67
Vel Total (ft/s)	3.83	Avg. Vel. (ft/s)	3.01	4.32	1.41
Max Chl Dpth (ft)	1.14	Hydr. Depth (ft)	0.46	0.55	0.15
Conv. Total (cfs)	2402.3	Conv. (cfs)	656.5	1736.6	9.2
Length Wtd. (ft)	286.41	Wetted Per. (ft)	71.30	110.97	6.67
Min Ch El (ft)	2493.91	Shear (lb/sq ft)	0.67	0.79	0.21
Alpha	1.09	Stream Power (lb/ft s)	279.60	0.00	0.00
Frctn Loss (ft)		Cum Volume (acre-ft)	0.81	1.50	0.37
C & E Loss (ft)		Cum SA (acres)	1.88	2.26	1.06

Plan: Default Scenario Reach C Reach C RS: 310 Profile: 1

E.G. Elev (ft)	2487.87	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.38	Wt. n-Val.	0.045	0.030	0.045
W.S. Elev (ft)	2487.49	Reach Len. (ft)	137.17	137.17	137.17
Crit W.S. (ft)	2487.58	Flow Area (sq ft)	3.41	44.62	33.50
E.G. Slope (ft/ft)	0.029400	Area (sq ft)	3.41	44.62	33.50
Q Total (cfs)	364.40	Flow (cfs)	7.49	248.18	108.73
Top Width (ft)	175.43	Top Width (ft)	14.10	84.20	77.13
Vel Total (ft/s)	4.47	Avg. Vel. (ft/s)	2.20	5.56	3.25
Max Chl Dpth (ft)	0.79	Hydr. Depth (ft)	0.24	0.53	0.43
Conv. Total (cfs)	2125.2	Conv. (cfs)	43.7	1447.4	634.1
Length Wtd. (ft)	137.17	Wetted Per. (ft)	14.10	84.21	77.20
Min Ch El (ft)	2486.72	Shear (lb/sq ft)	0.44	0.97	0.80
Alpha	1.22	Stream Power (lb/ft s)	244.74	0.00	0.00
Frctn Loss (ft)	7.42	Cum Volume (acre-ft)	0.69	1.15	0.26
C & E Loss (ft)	0.01	Cum SA (acres)	1.60	1.62	0.79

Plan: Default Scenario Reach C Reach C RS: 309 Profile: 1

E.G. Elev (ft)	2484.39	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.70	Wt. n-Val.	0.045	0.030	0.045
W.S. Elev (ft)	2483.69	Reach Len. (ft)	108.70	108.70	108.70
Crit W.S. (ft)	2483.81	Flow Area (sq ft)	22.13	35.44	3.56
E.G. Slope (ft/ft)	0.021725	Area (sq ft)	22.13	35.44	3.56
Q Total (cfs)	364.40	Flow (cfs)	88.86	264.83	10.71
Top Width (ft)	70.97	Top Width (ft)	29.50	34.20	7.27
Vel Total (ft/s)	5.96	Avg. Vel. (ft/s)	4.01	7.47	3.01
Max Chl Dpth (ft)	1.11	Hydr. Depth (ft)	0.75	1.04	0.49
Conv. Total (cfs)	2472.3	Conv. (cfs)	602.9	1796.8	72.7
Length Wtd. (ft)	108.70	Wetted Per. (ft)	29.54	34.22	7.33
Min Ch El (ft)	2482.58	Shear (lb/sq ft)	1.02	1.40	0.66
Alpha	1.26	Stream Power (lb/ft s)	218.49	0.00	0.00
Frctn Loss (ft)	3.45	Cum Volume (acre-ft)	0.65	1.03	0.20
C & E Loss (ft)	0.03	Cum SA (acres)	1.53	1.44	0.65

Plan: Default Scenario Reach C Reach C RS: 308 Profile: 1

E.G. Elev (ft)	2481.97	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.73	Wt. n-Val.	0.045	0.030	0.045
W.S. Elev (ft)	2481.24	Reach Len. (ft)	57.60	57.60	57.60
Crit W.S. (ft)	2481.40	Flow Area (sq ft)	14.17	42.05	1.38
E.G. Slope (ft/ft)	0.022716	Area (sq ft)	14.17	42.05	1.38
Q Total (cfs)	364.40	Flow (cfs)	55.57	306.15	2.68
Top Width (ft)	71.58	Top Width (ft)	22.32	43.64	5.62
Vel Total (ft/s)	6.33	Avg. Vel. (ft/s)	3.92	7.28	1.95
Max Chl Dpth (ft)	1.20	Hydr. Depth (ft)	0.63	0.96	0.25
Conv. Total (cfs)	2417.8	Conv. (cfs)	368.7	2031.2	17.8
Length Wtd. (ft)	57.60	Wetted Per. (ft)	22.37	43.67	5.64
Min Ch El (ft)	2480.04	Shear (lb/sq ft)	0.90	1.37	0.35
Alpha	1.17	Stream Power (lb/ft s)	173.76	0.00	0.00
Frctn Loss (ft)	2.41	Cum Volume (acre-ft)	0.60	0.93	0.19
C & E Loss (ft)	0.00	Cum SA (acres)	1.47	1.34	0.64

Plan: Default Scenario Reach C Reach C RS: 307 Profile: 1

E.G. Elev (ft)	2480.65	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.69	Wt. n-Val.	0.045	0.030	0.045
W.S. Elev (ft)	2479.96	Reach Len. (ft)	54.61	54.61	54.61
Crit W.S. (ft)	2480.14	Flow Area (sq ft)	9.84	47.85	2.47
E.G. Slope (ft/ft)	0.022777	Area (sq ft)	9.84	47.85	2.47
Q Total (cfs)	364.40	Flow (cfs)	28.09	330.97	5.33
Top Width (ft)	85.02	Top Width (ft)	22.65	53.75	8.63
Vel Total (ft/s)	6.06	Avg. Vel. (ft/s)	2.86	6.92	2.16
Max Chl Dpth (ft)	1.02	Hydr. Depth (ft)	0.43	0.89	0.29
Conv. Total (cfs)	2414.5	Conv. (cfs)	186.2	2193.1	35.3
Length Wtd. (ft)	54.61	Wetted Per. (ft)	22.67	53.76	8.65
Min Ch El (ft)	2478.94	Shear (lb/sq ft)	0.62	1.27	0.41
Alpha	1.20	Stream Power (lb/ft s)	153.68	0.00	0.00
Frctn Loss (ft)	1.31	Cum Volume (acre-ft)	0.59	0.87	0.19
C & E Loss (ft)	0.01	Cum SA (acres)	1.44	1.27	0.63

Plan: Default Scenario Reach C Reach C RS: 306 Profile: 1

E.G. Elev (ft)	2479.46	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.66	Wt. n-Val.	0.045	0.030	0.045
W.S. Elev (ft)	2478.80	Reach Len. (ft)	56.01	56.01	56.01
Crit W.S. (ft)	2478.94	Flow Area (sq ft)	18.43	43.98	2.07
E.G. Slope (ft/ft)	0.020875	Area (sq ft)	18.43	43.98	2.07
Q Total (cfs)	364.40	Flow (cfs)	52.97	307.06	4.37
Top Width (ft)	92.08	Top Width (ft)	39.42	45.62	7.04
Vel Total (ft/s)	5.65	Avg. Vel. (ft/s)	2.87	6.98	2.11
Max Chl Dpth (ft)	1.20	Hydr. Depth (ft)	0.47	0.96	0.29
Conv. Total (cfs)	2522.1	Conv. (cfs)	366.6	2125.3	30.3
Length Wtd. (ft)	56.01	Wetted Per. (ft)	39.43	45.64	7.06
Min Ch El (ft)	2477.60	Shear (lb/sq ft)	0.61	1.26	0.38
Alpha	1.33	Stream Power (lb/ft s)	154.40	0.00	0.00
Frctn Loss (ft)	1.19	Cum Volume (acre-ft)	0.57	0.81	0.19
C & E Loss (ft)	0.01	Cum SA (acres)	1.40	1.21	0.62

Plan: Default Scenario Reach C Reach C RS: 305 Profile: 1

E.G. Elev (ft)	2478.41	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.49	Wt. n-Val.	0.045	0.030	0.045
W.S. Elev (ft)	2477.92	Reach Len. (ft)	61.74	61.74	61.74
Crit W.S. (ft)	2478.01	Flow Area (sq ft)	19.73	46.53	13.43
E.G. Slope (ft/ft)	0.015240	Area (sq ft)	19.73	46.53	13.43
Q Total (cfs)	364.40	Flow (cfs)	51.82	288.19	24.39
Top Width (ft)	128.48	Top Width (ft)	38.12	45.60	44.76
Vel Total (ft/s)	4.57	Avg. Vel. (ft/s)	2.63	6.19	1.82
Max Chl Dpth (ft)	1.29	Hydr. Depth (ft)	0.52	1.02	0.30
Conv. Total (cfs)	2951.8	Conv. (cfs)	419.8	2334.5	197.6
Length Wtd. (ft)	61.74	Wetted Per. (ft)	38.13	45.64	45.15
Min Ch El (ft)	2476.63	Shear (lb/sq ft)	0.49	0.97	0.28
Alpha	1.51	Stream Power (lb/ft s)	158.85	0.00	0.00
Frctn Loss (ft)	0.99	Cum Volume (acre-ft)	0.55	0.75	0.18
C & E Loss (ft)	0.05	Cum SA (acres)	1.35	1.15	0.59

Plan: Default Scenario Reach C Reach C RS: 304 Profile: 1

E.G. Elev (ft)	2477.35	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.61	Wt. n-Val.	0.045	0.030	0.045
W.S. Elev (ft)	2476.74	Reach Len. (ft)	83.11	83.11	83.11
Crit W.S. (ft)	2476.91	Flow Area (sq ft)	5.09	53.90	5.88
E.G. Slope (ft/ft)	0.019074	Area (sq ft)	5.09	53.90	5.88
Q Total (cfs)	364.40	Flow (cfs)	10.43	346.22	7.74
Top Width (ft)	113.92	Top Width (ft)	16.90	59.09	37.94
Vel Total (ft/s)	5.62	Avg. Vel. (ft/s)	2.05	6.42	1.32
Max Chl Dpth (ft)	1.20	Hydr. Depth (ft)	0.30	0.91	0.16
Conv. Total (cfs)	2638.5	Conv. (cfs)	75.5	2506.9	56.1
Length Wtd. (ft)	83.11	Wetted Per. (ft)	16.93	59.22	37.95
Min Ch El (ft)	2475.53	Shear (lb/sq ft)	0.36	1.08	0.18
Alpha	1.25	Stream Power (lb/ft s)	341.54	0.00	0.00
Frctn Loss (ft)	1.05	Cum Volume (acre-ft)	0.53	0.68	0.16
C & E Loss (ft)	0.01	Cum SA (acres)	1.31	1.08	0.53

Plan: Default Scenario Reach C Reach C RS: 303 Profile: 1

E.G. Elev (ft)	2475.59	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.62	Wt. n-Val.	0.045	0.030	0.045
W.S. Elev (ft)	2474.97	Reach Len. (ft)	312.65	312.65	312.65
Crit W.S. (ft)	2475.14	Flow Area (sq ft)	1.28	55.82	4.58
E.G. Slope (ft/ft)	0.023633	Area (sq ft)	1.28	55.82	4.58
Q Total (cfs)	364.40	Flow (cfs)	1.32	356.01	7.07
Top Width (ft)	118.70	Top Width (ft)	17.75	72.78	28.16
Vel Total (ft/s)	5.91	Avg. Vel. (ft/s)	1.03	6.38	1.54
Max Chl Dpth (ft)	1.12	Hydr. Depth (ft)	0.07	0.77	0.16
Conv. Total (cfs)	2370.4	Conv. (cfs)	8.6	2315.8	46.0
Length Wtd. (ft)	312.65	Wetted Per. (ft)	17.76	72.83	28.20
Min Ch El (ft)	2473.85	Shear (lb/sq ft)	0.11	1.13	0.24
Alpha	1.14	Stream Power (lb/ft s)	257.51	0.00	0.00
Frctn Loss (ft)	1.76	Cum Volume (acre-ft)	0.52	0.58	0.15
C & E Loss (ft)	0.00	Cum SA (acres)	1.28	0.95	0.46

Plan: Default Scenario Reach C Reach C RS: 302 Profile: 1

E.G. Elev (ft)	2468.70	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.26	Wt. n-Val.	0.045	0.030	0.045
W.S. Elev (ft)	2468.45	Reach Len. (ft)	158.41	158.41	158.41
Crit W.S. (ft)	2468.45	Flow Area (sq ft)	41.24	34.06	20.09
E.G. Slope (ft/ft)	0.027556	Area (sq ft)	41.24	34.06	20.09
Q Total (cfs)	364.40	Flow (cfs)	132.77	165.86	65.77
Top Width (ft)	213.52	Top Width (ft)	95.31	74.70	43.52
Vel Total (ft/s)	3.82	Avg. Vel. (ft/s)	3.22	4.87	3.27
Max Chl Dpth (ft)	0.93	Hydr. Depth (ft)	0.43	0.46	0.46
Conv. Total (cfs)	2195.2	Conv. (cfs)	799.8	999.2	396.2
Length Wtd. (ft)	158.41	Wetted Per. (ft)	95.46	74.73	43.55
Min Ch El (ft)	2467.70	Shear (lb/sq ft)	0.74	0.78	0.79
Alpha	1.13	Stream Power (lb/ft s)	346.08	0.00	0.00
Frctn Loss (ft)	7.97	Cum Volume (acre-ft)	0.37	0.26	0.06
C & E Loss (ft)	0.11	Cum SA (acres)	0.87	0.42	0.21

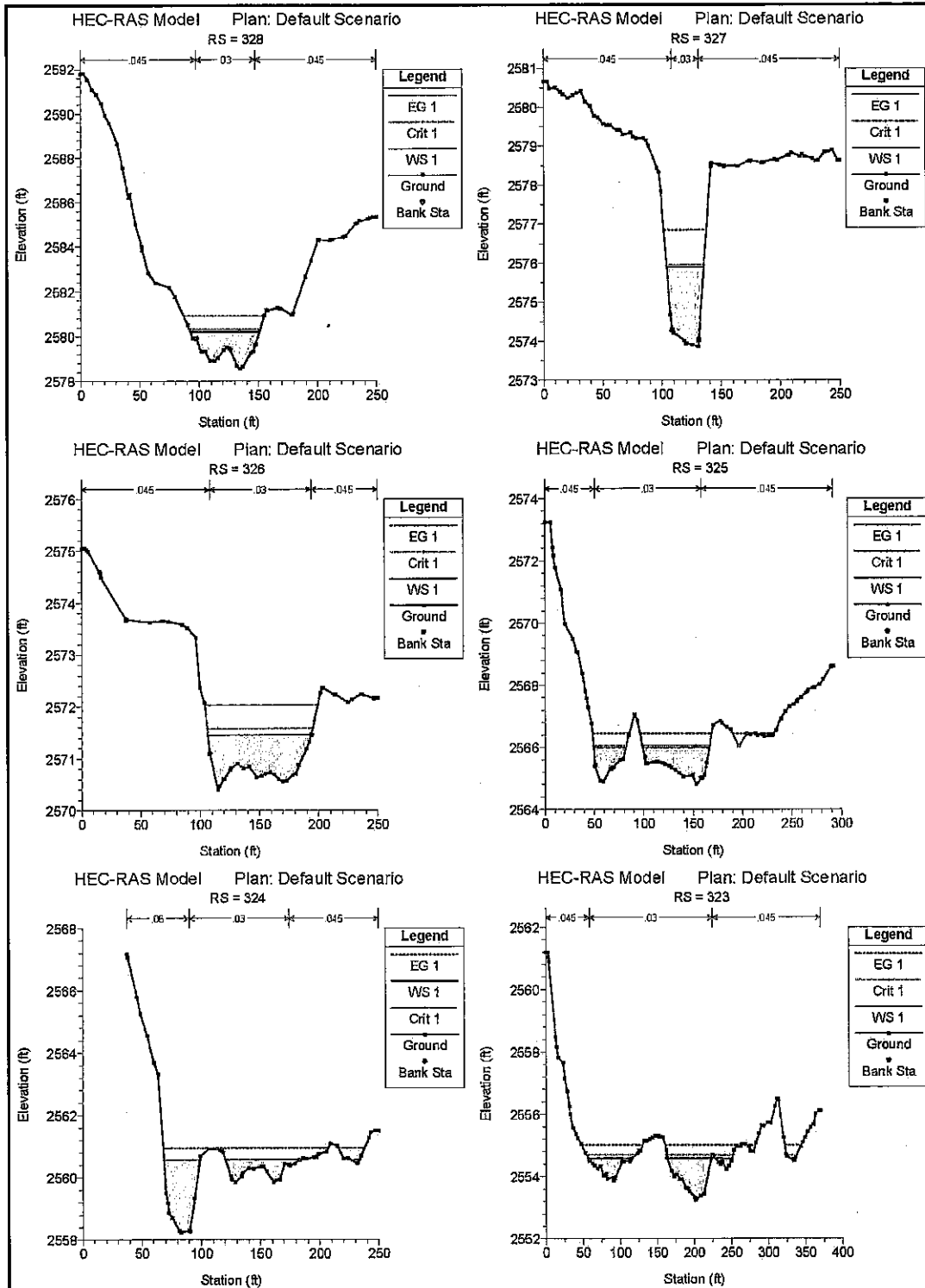
Plan: Default Scenario Reach C Reach C RS: 301 Profile: 1

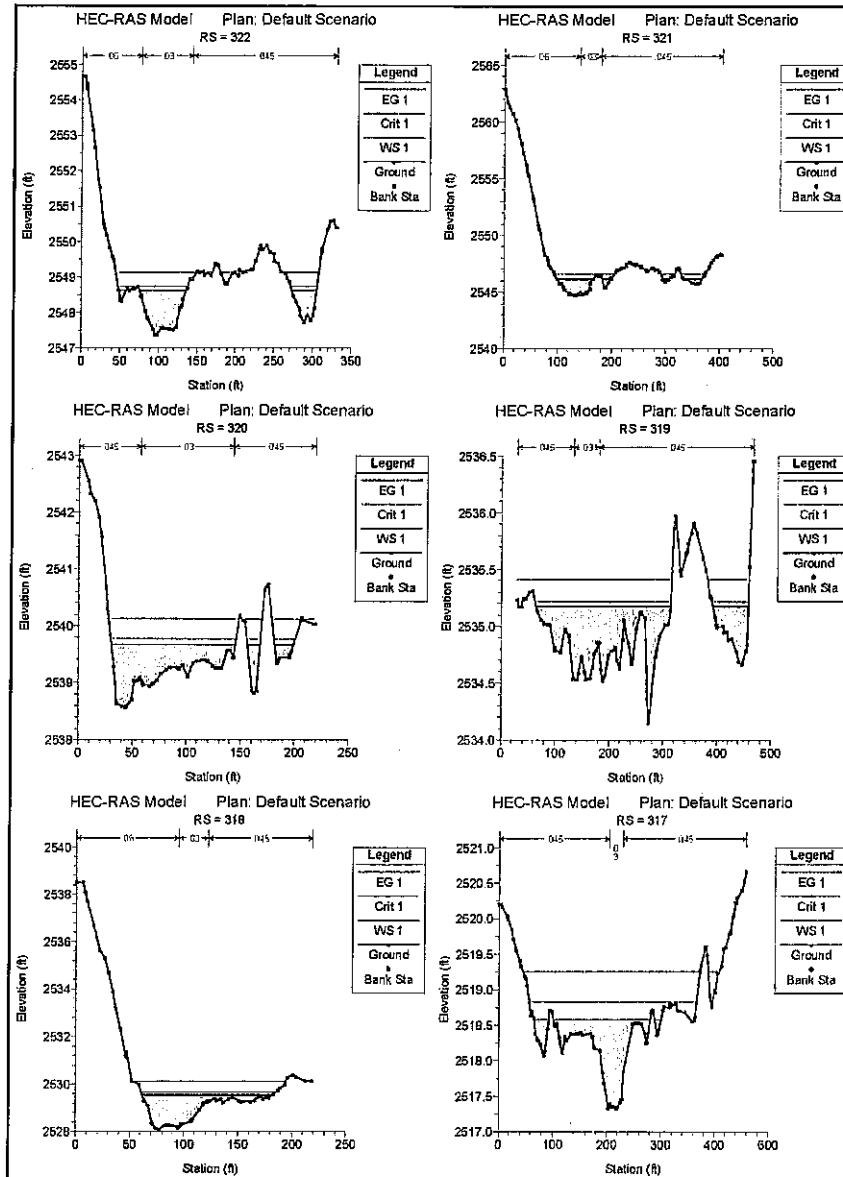
E.G. Elev (ft)	2465.31	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.21	Wt. n-Val.	0.045	0.030	0.045
W.S. Elev (ft)	2465.09	Reach Len. (ft)	143.99	143.99	143.99
Crit W.S. (ft)	2465.09	Flow Area (sq ft)	69.33	38.23	7.90
E.G. Slope (ft/ft)	0.017021	Area (sq ft)	69.33	38.23	7.90
Q Total (cfs)	364.40	Flow (cfs)	172.72	178.94	12.75
Top Width (ft)	256.53	Top Width (ft)	157.77	61.99	36.76
Vel Total (ft/s)	3.16	Avg. Vel. (ft/s)	2.49	4.68	1.61
Max Chl Dpth (ft)	1.03	Hydr. Depth (ft)	0.44	0.62	0.21
Conv. Total (cfs)	2793.1	Conv. (cfs)	1323.9	1371.5	97.7
Length Wtd. (ft)	143.99	Wetted Per. (ft)	157.93	62.02	36.79
Min Ch El (ft)	2464.06	Shear (lb/sq ft)	0.47	0.66	0.23
Alpha	1.38	Stream Power (lb/ft s)	309.21	0.00	0.00
Frctn Loss (ft)	3.38	Cum Volume (acre-ft)	0.17	0.12	0.01
C & E Loss (ft)	0.01	Cum SA (acres)	0.41	0.18	0.06

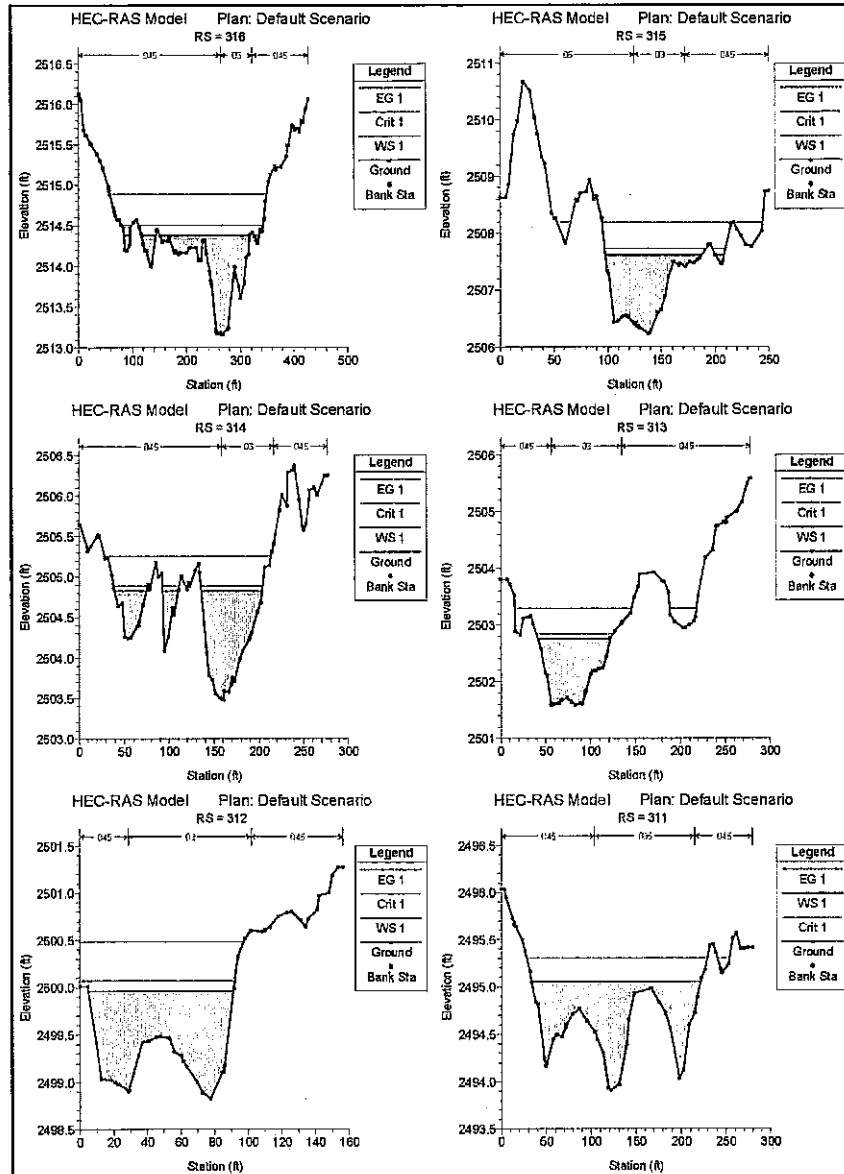
Plan: Default Scenario Reach C Reach C RS: 300 Profile: 1

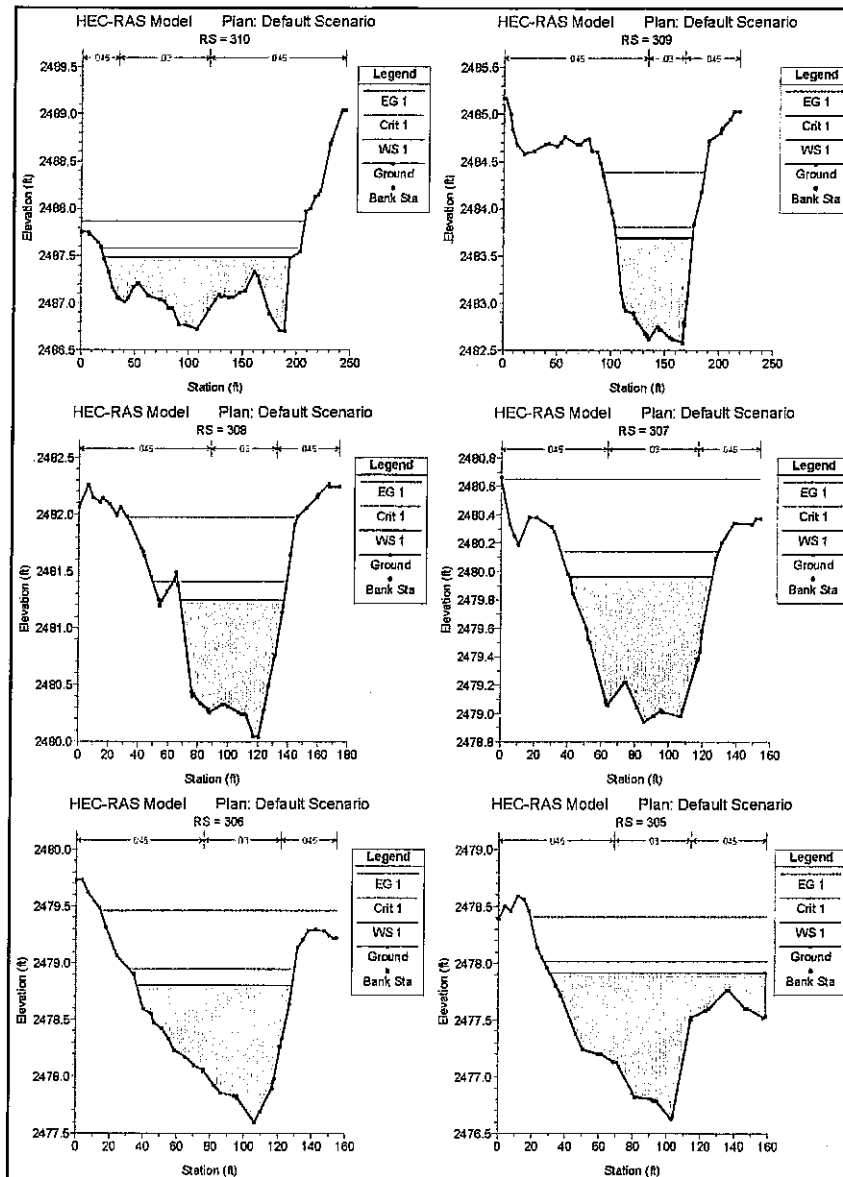
E.G. Elev (ft)	2462.15	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.67	Wt. n-Val.	0.045	0.030	
W.S. Elev (ft)	2461.48	Reach Len. (ft)			
Crit W.S. (ft)	2461.69	Flow Area (sq ft)	32.28	37.03	
E.G. Slope (ft/ft)	0.028304	Area (sq ft)	32.28	37.03	
Q Total (cfs)	364.40	Flow (cfs)	91.05	273.35	
Top Width (ft)	134.53	Top Width (ft)	90.20	44.33	
Vel Total (ft/s)	5.26	Avg. Vel. (ft/s)	2.82	7.38	
Max Chl Dpth (ft)	1.00	Hydr. Depth (ft)	0.36	0.84	
Conv. Total (cfs)	2166.0	Conv. (cfs)	541.2	1624.8	
Length Wtd. (ft)		Wetted Per. (ft)	90.77	44.40	
Min Ch El (ft)	2460.48	Shear (lb/sq ft)	0.63	1.47	
Alpha	1.55	Stream Power (lb/ft s)	279.89	0.00	0.00
Frctn Loss (ft)	3.11	Cum Volume (acre-ft)			
C & E Loss (ft)	0.05	Cum SA (acres)			

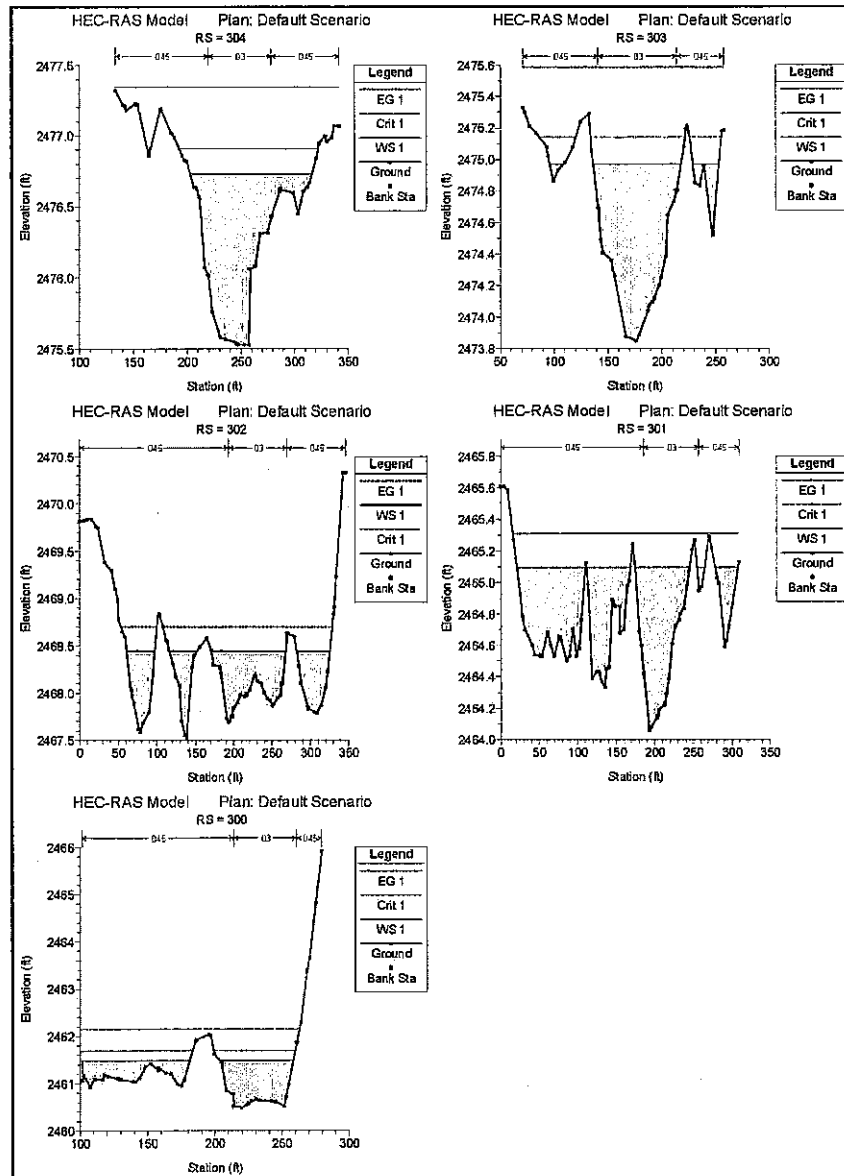
CROSS SECTION PLOTS



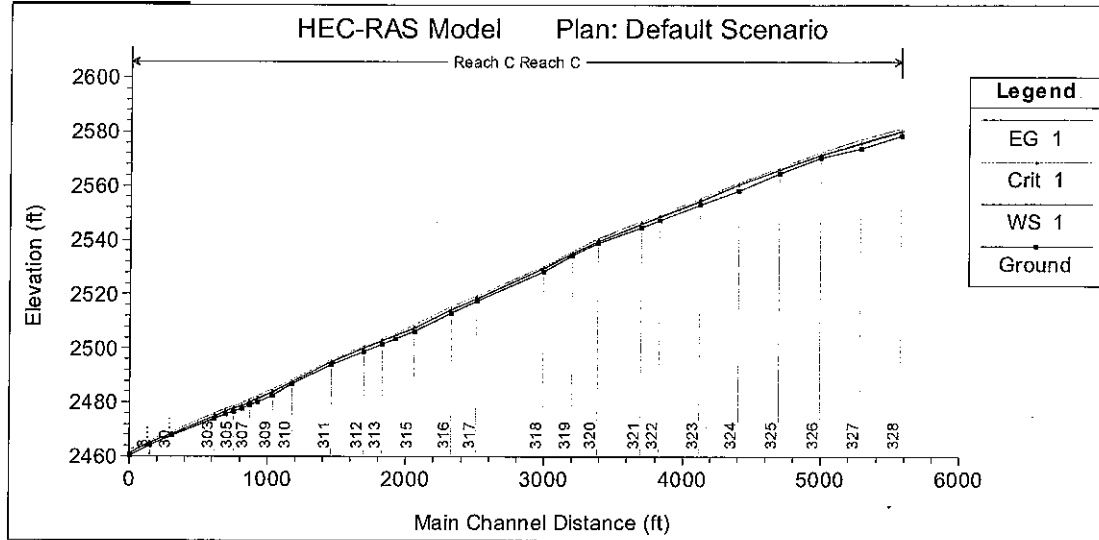








PROFILE PLOT



STANDARD TABLE 1

HEC-RAS Plan: Default Scenario River: Reach C Reach: Reach C Profile: 1

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	WS Elev (ft)	Crit W.S. (ft)	EG Elev (ft)	EG Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Reach C	328	1	384.40	2578.54	2580.20	2580.32	2580.91	0.017318	6.79	55.28	58.09	1.16
Reach C	327	1	384.40	2573.88	2575.80	2575.95	2576.84	0.011241	8.01	50.27	31.26	1.03
Reach C	326	1	384.40	2570.40	2571.48	2571.58	2572.03	0.024565	8.10	58.81	87.04	1.29
Reach C	325	1	384.40	2564.80	2565.88	2565.05	2566.44	0.018778	5.47	68.71	100.16	1.15
Reach C	324	1	384.40	2558.28	2560.57	2560.57	2560.86	0.018687	4.40	75.29	99.74	1.09
Reach C	323	1	384.40	2553.26	2554.60	2554.70	2555.02	0.022659	5.23	72.88	149.10	1.20
Reach C	322	1	384.40	2547.37	2548.84	2548.74	2549.13	0.018120	6.04	71.10	104.47	1.15
Reach C	321	1	384.40	2544.77	2546.13	2546.22	2546.80	0.028588	7.13	83.41	121.17	1.24
Reach C	320	1	384.40	2538.95	2539.87	2539.77	2540.12	0.037522	5.43	88.80	143.84	1.47
Reach C	318	1	384.40	2534.53	2535.17	2535.22	2535.41	0.028585	5.39	113.02	318.86	1.23
Reach C	318	1	384.40	2529.18	2529.55	2529.63	2530.11	0.025038	7.42	74.51	120.48	1.36
Reach C	317	1	384.40	2517.31	2518.58	2518.83	2519.25	0.020026	7.97	87.82	224.08	1.29
Reach C	316	1	384.40	2513.16	2514.38	2514.51	2514.88	0.025890	6.57	83.81	214.87	1.34
Reach C	315	1	384.40	2508.24	2507.82	2507.73	2508.20	0.024257	6.76	87.88	98.43	1.31
Reach C	314	1	384.40	2503.48	2504.83	2504.88	2505.25	0.021158	8.11	78.32	121.32	1.22
Reach C	313	1	384.40	2501.59	2502.75	2502.84	2503.28	0.018043	8.04	84.47	80.45	1.14
Reach C	312	1	384.40	2498.82	2499.88	2500.07	2500.48	0.023832	8.17	84.59	85.99	1.27
Reach C	311	1	384.40	2493.81	2495.05	2495.05	2495.30	0.023010	4.32	95.10	188.82	1.03
Reach C	310	1	384.40	2486.72	2487.48	2487.58	2487.67	0.029400	5.55	81.54	175.43	1.35
Reach C	308	1	384.40	2482.68	2483.68	2483.81	2484.38	0.021725	7.47	61.13	70.87	1.29
Reach C	308	1	384.40	2480.04	2481.24	2481.40	2481.87	0.022715	7.28	57.60	71.58	1.31
Reach C	307	1	384.40	2478.94	2479.86	2480.14	2480.65	0.022777	6.82	80.16	85.02	1.28
Reach C	306	1	384.40	2477.80	2478.60	2478.94	2479.48	0.020875	6.98	84.48	92.08	1.25
Reach C	305	1	384.40	2476.83	2477.82	2478.01	2478.41	0.015240	8.13	78.88	128.48	1.08
Reach C	304	1	384.40	2475.53	2476.74	2476.81	2477.35	0.018074	8.42	84.87	113.92	1.19
Reach C	303	1	384.40	2473.65	2474.87	2475.14	2475.68	0.023633	8.38	61.68	118.70	1.28
Reach C	302	1	384.40	2467.70	2468.45	2468.45	2468.70	0.027566	4.87	95.40	213.52	1.27
Reach C	301	1	384.40	2464.06	2465.08	2465.08	2465.31	0.017021	4.68	116.48	256.53	1.05
Reach C	300	1	384.40	2460.48	2461.48	2461.58	2462.15	0.028304	7.88	83.30	134.53	1.42

STANDARD TABLE 2

HEC-RAS Plan: Default Scenario River: Reach C Reach: Reach C Profile: 1

Reach	River Sta.	Profile	E.G. Elev (ft)	W.S. Elev (ft)	Vel Head (ft)	Frictn Loss (ft)	C & E Loss (ft)	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Top Width (ft)
Reach C	328	1	2580.91	2580.20	0.71			2.00	360.60	1.80	58.08
Reach C	327	1	2576.84	2575.90	0.94	4.05	0.02	11.22	340.49	12.69	51.26
Reach C	326	1	2572.03	2571.46	0.58	4.70	0.11	0.44	363.96		87.04
Reach C	325	1	2566.44	2565.99	0.45	5.60	0.06	0.80	347.52	16.07	100.18
Reach C	324	1	2560.95	2560.57	0.38			223.09	140.16	1.15	99.74
Reach C	323	1	2555.02	2554.80	0.42	5.93	0.00	0.05	358.07	6.28	149.10
Reach C	322	1	2549.13	2548.64	0.50	5.87	0.01	1.82	306.43	56.15	104.47
Reach C	321	1	2546.60	2546.13	0.47	2.54	0.01	152.12	176.50	35.78	121.17
Reach C	320	1	2540.12	2539.67	0.45	6.57	0.05	128.79	199.23	36.38	143.84
Reach C	319	1	2535.41	2535.17	0.24	4.69	0.08	38.15	137.25	189.00	318.85
Reach C	318	1	2530.11	2529.55	0.56	5.27	0.03	154.12	187.36	22.92	120.49
Reach C	317	1	2519.25	2518.58	0.88	10.84	0.01	98.07	241.32	25.01	224.09
Reach C	316	1	2514.89	2514.39	0.50	4.32	0.05	103.23	260.79	0.38	214.87
Reach C	315	1	2508.20	2507.82	0.57	6.69	0.01	98.42	263.02	2.97	98.43
Reach C	314	1	2505.25	2504.83	0.42	2.90	0.04	150.65	213.75		121.32
Reach C	313	1	2503.29	2502.75	0.54	1.96	0.01	22.76	341.64		80.45
Reach C	312	1	2500.48	2499.98	0.52	2.80	0.00	83.86	280.54		85.99
Reach C	311	1	2495.30	2495.05	0.25			99.58	263.42	1.40	188.82
Reach C	310	1	2487.87	2487.49	0.38	7.42	0.01	7.49	248.18	108.73	175.43
Reach C	309	1	2484.39	2483.69	0.70	3.45	0.03	88.86	264.83	10.71	70.97
Reach C	308	1	2481.97	2481.24	0.73	2.41	0.00	55.57	306.15	2.68	71.58
Reach C	307	1	2480.65	2479.96	0.69	1.31	0.01	28.09	330.97	5.33	85.02
Reach C	306	1	2479.46	2478.80	0.66	1.19	0.01	52.97	307.06	4.37	92.08
Reach C	305	1	2478.41	2477.92	0.48	0.99	0.05	51.82	288.19	24.39	128.48
Reach C	304	1	2477.35	2476.74	0.61	1.05	0.01	10.43	346.22	7.74	113.92
Reach C	303	1	2475.59	2474.97	0.62	1.76	0.00	1.32	356.01	7.07	118.70
Reach C	302	1	2468.70	2468.45	0.26	7.97	0.11	132.77	165.86	65.77	213.52
Reach C	301	1	2465.31	2465.09	0.21	3.38	0.01	172.72	178.94	12.75	256.53
Reach C	300	1	2462.15	2461.48	0.67	3.11	0.05	91.05	273.35		134.53

HYDRAULIC DEPTH TABLE

HEC-RAS Plan: Default Scenario River: Reach C Reach: Reach C Profile: 1

Reach	River Sta.	Profile	Q Total (cfs)	W.S. Elev (ft)	Hydr Depth L (ft)	Hydr Depth C (ft)	Hydr Depth R (ft)	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)
Reach C	328	1	364.40	2580.20	0.24	1.07	0.29	2.00	360.60	1.80
Reach C	327	1	364.40	2575.90	0.85	1.89	0.83	11.22	340.49	12.69
Reach C	326	1	364.40	2571.46	0.17	0.70		0.44	363.96	
Reach C	325	1	364.40	2565.99	0.29	0.70	0.83	0.80	347.52	16.07
Reach C	324	1	364.40	2560.57	1.92	0.51	0.08	223.09	140.16	1.15
Reach C	323	1	364.40	2554.80	0.04	0.59	0.14	0.05	358.07	6.28
Reach C	322	1	364.40	2548.64	0.14	0.86	0.57	1.82	306.43	56.15
Reach C	321	1	364.40	2546.13	1.01	1.02	0.29	152.12	176.50	35.78
Reach C	320	1	364.40	2539.67	0.85	0.43	0.33	128.79	199.23	36.38
Reach C	319	1	364.40	2535.17	0.24	0.55	0.35	38.15	137.25	189.00
Reach C	318	1	364.40	2529.55	1.11	0.92	0.21	154.12	187.36	22.92
Reach C	317	1	364.40	2518.58	0.34	1.21	0.20	98.07	241.32	25.01
Reach C	316	1	364.40	2514.39	0.29	0.75	0.05	103.23	260.79	0.38
Reach C	315	1	364.40	2507.82	0.96	0.62	0.11	98.42	263.02	2.97
Reach C	314	1	364.40	2504.83	0.54	0.78		150.65	213.75	
Reach C	313	1	364.40	2502.75	0.52	0.87		22.76	341.64	
Reach C	312	1	364.40	2499.98	0.80	0.73		83.86	280.54	
Reach C	311	1	364.40	2495.05	0.46	0.55	0.15	99.58	263.42	1.40
Reach C	310	1	364.40	2487.49	0.24	0.53	0.43	7.49	248.18	108.73
Reach C	309	1	364.40	2483.69	0.75	1.04	0.49	88.86	264.83	10.71
Reach C	308	1	364.40	2481.24	0.63	0.96	0.25	55.57	306.15	2.68
Reach C	307	1	364.40	2479.96	0.43	0.89	0.29	28.09	330.97	5.33
Reach C	306	1	364.40	2478.80	0.47	0.96	0.29	52.97	307.06	4.37
Reach C	305	1	364.40	2477.92	0.52	1.02	0.30	51.82	288.19	24.39
Reach C	304	1	364.40	2476.74	0.30	0.91	0.16	10.43	346.22	7.74
Reach C	303	1	364.40	2474.97	0.07	0.77	0.16	1.32	356.01	7.07
Reach C	302	1	364.40	2468.45	0.43	0.46	0.46	132.77	165.86	65.77
Reach C	301	1	364.40	2465.09	0.44	0.82	0.21	172.72	178.94	12.75
Reach C	300	1	364.40	2461.48	0.36	0.84		91.05	273.35	

MANNING'S N-VALUE TABLE

HEC-RAS Plan: Default Scenario River: Reach C Reach: Reach C Profile: 1

Reach	River Sta	Profile	Q Total (cfs)	Mann Wtd Left	Mann Wtd Chnl	Mann Wtd Rght	Mann Wtd Total
Reach C	328	1	364.40	0.045	0.030	0.045	0.029
Reach C	327	1	364.40	0.045	0.030	0.045	0.029
Reach C	326	1	364.40	0.045	0.030		0.030
Reach C	325	1	364.40	0.045	0.030	0.045	0.031
Reach C	324	1	364.40	0.060	0.030	0.045	0.035
Reach C	323	1	364.40	0.045	0.030	0.045	0.028
Reach C	322	1	364.40	0.060	0.030	0.045	0.030
Reach C	321	1	364.40	0.060	0.030	0.045	0.038
Reach C	320	1	364.40	0.045	0.030	0.045	0.034
Reach C	319	1	364.40	0.045	0.030	0.045	0.038
Reach C	318	1	364.40	0.060	0.030	0.045	0.035
Reach C	317	1	364.40	0.045	0.030	0.045	0.027
Reach C	316	1	364.40	0.045	0.030	0.045	0.029
Reach C	315	1	364.40	0.060	0.030	0.045	0.033
Reach C	314	1	364.40	0.045	0.030		0.033
Reach C	313	1	364.40	0.045	0.030		0.030
Reach C	312	1	364.40	0.045	0.030		0.033
Reach C	311	1	364.40	0.045	0.035	0.045	0.037
Reach C	310	1	364.40	0.045	0.030	0.045	0.034
Reach C	309	1	364.40	0.045	0.030	0.045	0.033
Reach C	308	1	364.40	0.045	0.030	0.045	0.031
Reach C	307	1	364.40	0.045	0.030	0.045	0.029
Reach C	306	1	364.40	0.045	0.030	0.045	0.030
Reach C	305	1	364.40	0.045	0.030	0.045	0.029
Reach C	304	1	364.40	0.045	0.030	0.045	0.025
Reach C	303	1	364.40	0.045	0.030	0.045	0.025
Reach C	302	1	364.40	0.045	0.030	0.045	0.038
Reach C	301	1	364.40	0.045	0.030	0.045	0.036
Reach C	300	1	364.40	0.045	0.030		0.030

WATERHSED D

HEC-RAS OUTPUT

Plan: Default Scenario Reach D Reach D RS: 407 Profile: 1

E.G. Elev (ft)	2610.75	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.32	Wt. n-Val.	0.045	0.030	0.060
W.S. Elev (ft)	2610.42	Reach Len. (ft)	256.12	256.12	256.12
Crit W.S. (ft)	2610.42	Flow Area (sq ft)	0.11	14.74	0.01
E.G. Slope (ft/ft)	0.014952	Area (sq ft)	0.11	14.74	0.01
Q Total (cfs)	67.60	Flow (cfs)	0.11	67.48	0.00
Top Width (ft)	23.54	Top Width (ft)	0.76	22.35	0.43
Vel Total (ft/s)	4.55	Avg. Vel. (ft/s)	1.05	4.58	0.27
Max Chl Dpth (ft)	0.82	Hydr. Depth (ft)	0.14	0.66	0.03
Conv. Total (cfs)	552.8	Conv. (cfs)	0.9	551.9	0.0
Length Wtd. (ft)	256.12	Wetted Per. (ft)	0.81	22.44	0.43
Min Ch El (ft)	2609.60	Shear (lb/sq ft)	0.12	0.61	0.02
Alpha	1.01	Stream Power (lb/ft s)	233.98	0.00	0.00
Frcn Loss (ft)	3.27	Cum Volume (acre-ft)	0.06	0.61	0.03
C & E Loss (ft)	0.02	Cum SA (acres)	0.16	0.93	0.10

Plan: Default Scenario Reach D Reach D RS: 406 Profile: 1

E.G. Elev (ft)	2607.22	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.27	Wt. n-Val.	0.060	0.030	
W.S. Elev (ft)	2606.95	Reach Len. (ft)	256.12	256.12	256.12
Crit W.S. (ft)	2606.88	Flow Area (sq ft)	0.15	16.14	
E.G. Slope (ft/ft)	0.011020	Area (sq ft)	0.15	16.14	
Q Total (cfs)	67.60	Flow (cfs)	0.13	67.47	
Top Width (ft)	22.94	Top Width (ft)	0.63	22.30	
Vel Total (ft/s)	4.15	Avg. Vel. (ft/s)	0.86	4.18	
Max Chl Dpth (ft)	0.88	Hydr. Depth (ft)	0.24	0.72	
Conv. Total (cfs)	643.9	Conv. (cfs)	1.2	642.7	
Length Wtd. (ft)	256.12	Wetted Per. (ft)	0.79	22.40	
Min Ch El (ft)	2606.07	Shear (lb/sq ft)	0.13	0.50	
Alpha	1.01	Stream Power (lb/ft s)	242.86	0.00	0.00
Frcn Loss (ft)	3.31	Cum Volume (acre-ft)	0.06	0.51	0.03
C & E Loss (ft)	0.01	Cum SA (acres)	0.16	0.80	0.10

Plan: Default Scenario Reach D Reach D RS: 405 Profile: 1

E.G. Elev (ft)	2603.91	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.35	Wt. n-Val.	0.060	0.030	
W.S. Elev (ft)	2603.56	Reach Len. (ft)	256.12	256.12	256.12
Crit W.S. (ft)	2603.56	Flow Area (sq ft)	4.83	11.62	
E.G. Slope (ft/ft)	0.015351	Area (sq ft)	4.83	11.62	
Q Total (cfs)	67.60	Flow (cfs)	9.24	58.36	
Top Width (ft)	25.38	Top Width (ft)	9.74	15.63	
Vel Total (ft/s)	4.11	Avg. Vel. (ft/s)	1.91	5.02	
Max Chl Dpth (ft)	0.99	Hydr. Depth (ft)	0.50	0.74	
Conv. Total (cfs)	545.6	Conv. (cfs)	74.6	471.0	
Length Wtd. (ft)	256.12	Wetted Per. (ft)	9.79	15.70	
Min Ch El (ft)	2602.57	Shear (lb/sq ft)	0.47	0.71	
Alpha	1.32	Stream Power (lb/ft s)	250.00	0.00	0.00
Frcn Loss (ft)	2.87	Cum Volume (acre-ft)	0.04	0.43	0.03
C & E Loss (ft)	0.04	Cum SA (acres)	0.13	0.69	0.10

Plan: Default Scenario Reach D Reach D RS: 404 Profile: 1

E.G. Elev (ft)	2599.87	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.20	Wt. n-Val.	0.060	0.030	0.060
W.S. Elev (ft)	2599.67	Reach Len. (ft)	256.12	256.12	256.12
Crit W.S. (ft)	2599.56	Flow Area (sq ft)	1.94	17.83	0.01
E.G. Slope (ft/ft)	0.008547	Area (sq ft)	1.94	17.83	0.01
Q Total (cfs)	67.60	Flow (cfs)	2.11	65.48	0.00
Top Width (ft)	30.74	Top Width (ft)	5.88	24.78	0.08
Vel Total (ft/s)	3.42	Avg. Vel. (ft/s)	1.09	3.67	0.27
Max Chl Dpth (ft)	0.87	Hydr. Depth (ft)	0.33	0.72	0.14
Conv. Total (cfs)	731.2	Conv. (cfs)	22.9	708.3	0.0
Length Wtd. (ft)	256.12	Wetted Per. (ft)	5.91	24.81	0.29
Min Ch El (ft)	2598.80	Shear (lb/sq ft)	0.18	0.38	0.02
Alpha	1.12	Stream Power (lb/ft s)	250.00	0.00	0.00
Frctn Loss (ft)	2.98	Cum Volume (acre-ft)	0.02	0.35	0.03
C & E Loss (ft)	0.01	Cum SA (acres)	0.08	0.57	0.10

Plan: Default Scenario Reach D Reach D RS: 403 Profile: 1

E.G. Elev (ft)	2596.88	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.26	Wt. n-Val.		0.030	
W.S. Elev (ft)	2596.63	Reach Len. (ft)	256.12	256.12	256.12
Crit W.S. (ft)	2596.63	Flow Area (sq ft)		16.58	
E.G. Slope (ft/ft)	0.016699	Area (sq ft)		16.58	
Q Total (cfs)	67.60	Flow (cfs)		67.60	
Top Width (ft)	32.46	Top Width (ft)		32.46	
Vel Total (ft/s)	4.08	Avg. Vel. (ft/s)		4.08	
Max Chl Dpth (ft)	0.84	Hydr. Depth (ft)		0.51	
Conv. Total (cfs)	523.1	Conv. (cfs)		523.1	
Length Wtd. (ft)	256.12	Wetted Per. (ft)		32.59	
Min Ch El (ft)	2595.79	Shear (lb/sq ft)		0.53	
Alpha	1.00	Stream Power (lb/ft s)	250.00	0.00	0.00
Frctn Loss (ft)	3.90	Cum Volume (acre-ft)	0.02	0.25	0.03
C & E Loss (ft)	0.00	Cum SA (acres)	0.07	0.40	0.10

Plan: Default Scenario Reach D Reach D RS: 402 Profile: 1

E.G. Elev (ft)	2592.86	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.31	Wt. n-Val.	0.060	0.030	0.045
W.S. Elev (ft)	2592.56	Reach Len. (ft)	256.12	256.12	256.12
Crit W.S. (ft)	2592.57	Flow Area (sq ft)	0.96	13.68	2.23
E.G. Slope (ft/ft)	0.014783	Area (sq ft)	0.96	13.68	2.23
Q Total (cfs)	67.60	Flow (cfs)	1.27	62.72	3.60
Top Width (ft)	32.51	Top Width (ft)	3.23	20.59	8.69
Vel Total (ft/s)	4.01	Avg. Vel. (ft/s)	1.33	4.58	1.62
Max Chl Dpth (ft)	0.76	Hydr. Depth (ft)	0.30	0.66	0.26
Conv. Total (cfs)	556.0	Conv. (cfs)	10.5	515.9	29.6
Length Wtd. (ft)	256.12	Wetted Per. (ft)	3.28	20.61	8.71
Min Ch El (ft)	2591.79	Shear (lb/sq ft)	0.27	0.61	0.24
Alpha	1.23	Stream Power (lb/ft s)	176.50	0.00	0.00
Frctn Loss (ft)	4.02	Cum Volume (acre-ft)	0.02	0.16	0.02
C & E Loss (ft)	0.00	Cum SA (acres)	0.06	0.25	0.07

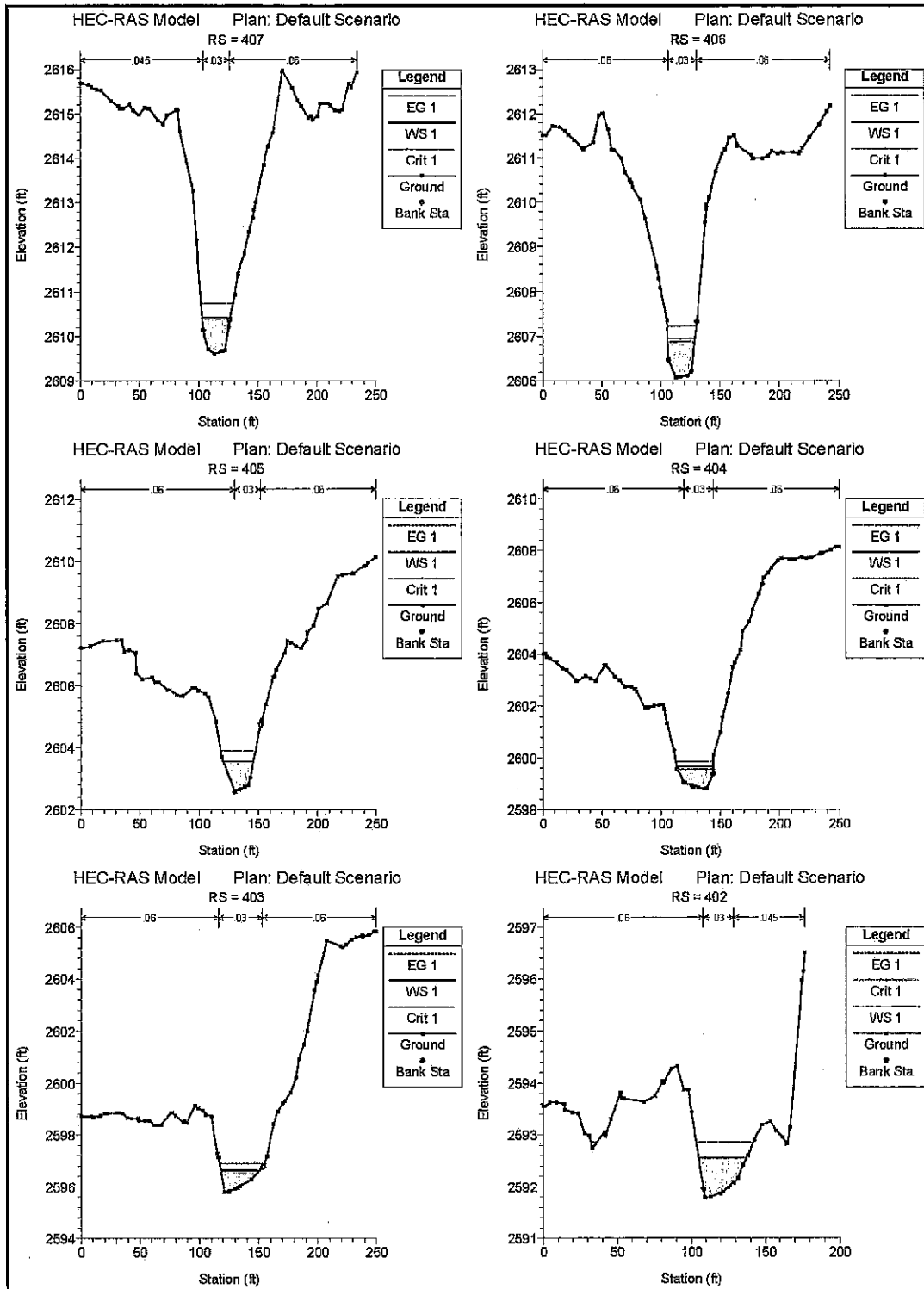
Plan: Default Scenario Reach D Reach D RS: 401 Profile: 1

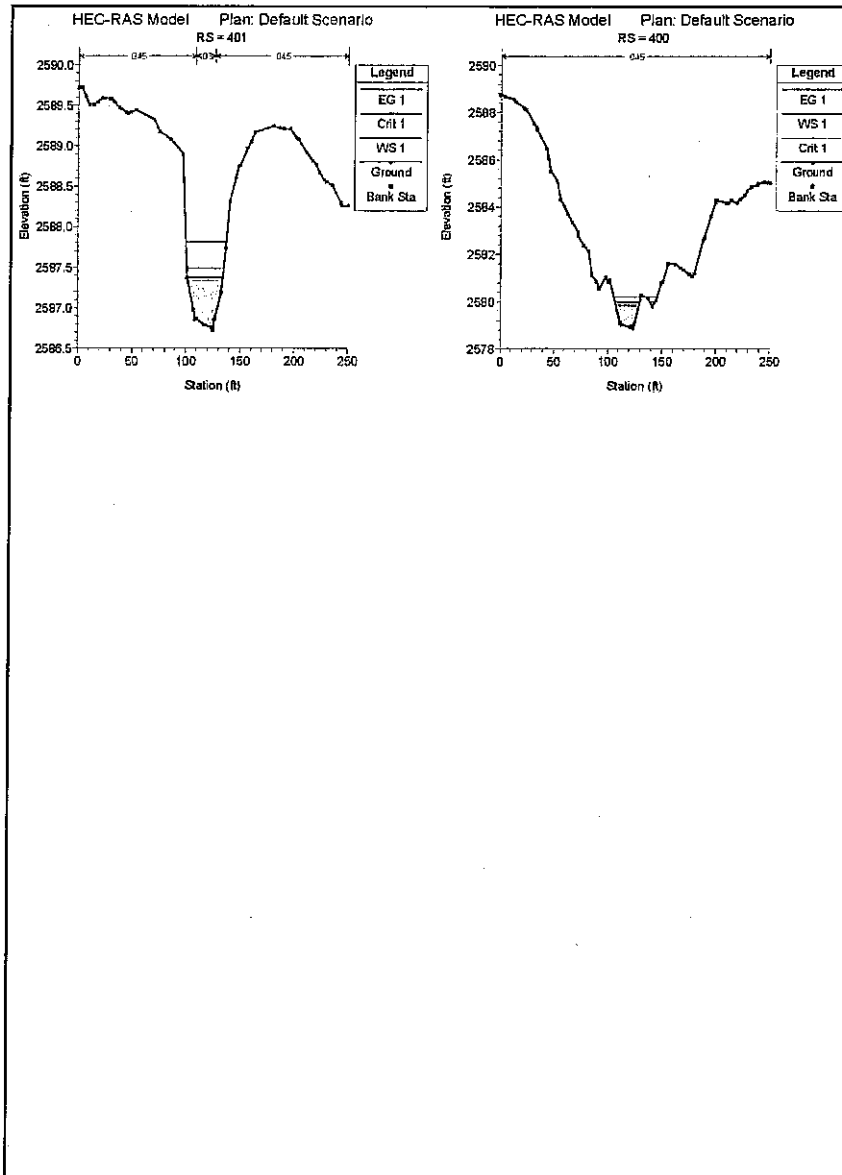
E.G. Elev (ft)	2587.81	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.44	Wt. n-Val.	0.045	0.030	0.045
W.S. Elev (ft)	2587.38	Reach Len. (ft)	256.12	256.12	256.12
Crit W.S. (ft)	2587.49	Flow Area (sq ft)	2.08	10.10	2.31
E.G. Slope (ft/ft)	0.027400	Area (sq ft)	2.08	10.10	2.31
Q Total (cfs)	67.60	Flow (cfs)	4.64	57.28	5.68
Top Width (ft)	33.09	Top Width (ft)	7.93	17.55	7.62
Vel Total (ft/s)	4.67	Avg. Vel. (ft/s)	2.23	5.67	2.46
Max Chl Dpth (ft)	0.65	Hydr. Depth (ft)	0.26	0.58	0.30
Conv. Total (cfs)	408.4	Conv. (cfs)	28.0	346.0	34.3
Length Wtd. (ft)	256.12	Wetted Per. (ft)	7.95	17.56	7.64
Min Ch El (ft)	2586.73	Shear (lb/sq ft)	0.45	0.98	0.52
Alpha	1.29	Stream Power (lb/ft s)	250.00	0.00	0.00
Frctn Loss (ft)	5.03	Cum Volume (acre-ft)	0.01	0.09	0.01
C & E Loss (ft)	0.01	Cum SA (acres)	0.02	0.14	0.02

Plan: Default Scenario Reach D Reach D RS: 400 Profile: 1

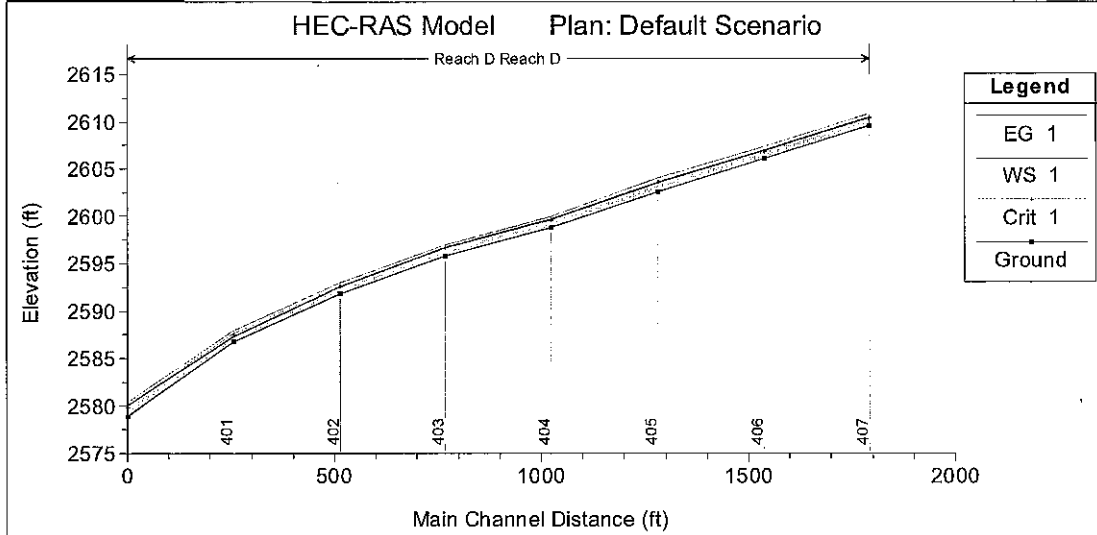
E.G. Elev (ft)	2580.20	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.19	Wt. n-Val.		0.045	
W.S. Elev (ft)	2580.01	Reach Len. (ft)			
Crit W.S. (ft)	2579.83	Flow Area (sq ft)		19.27	
E.G. Slope (ft/ft)	0.019493	Area (sq ft)		19.27	
Q Total (cfs)	67.60	Flow (cfs)		67.60	
Top Width (ft)	28.81	Top Width (ft)		28.81	
Vel Total (ft/s)	3.51	Avg. Vel. (ft/s)		3.51	
Max Chl Dpth (ft)	1.16	Hydr. Depth (ft)		0.67	
Conv. Total (cfs)	484.2	Conv. (cfs)		484.2	
Length Wtd. (ft)		Wetted Per. (ft)		29.04	
Min Ch El (ft)	2578.85	Shear (lb/sq ft)		0.81	
Alpha	1.00	Stream Power (lb/ft s)	250.00	0.00	0.00
Frctn Loss (ft)		Cum Volume (acre-ft)			
C & E Loss (ft)		Cum SA (acres)			

CROSS SECTION PLOTS





PROFILE PLOT



STANDARD TABLE 1

HEC-RAS Plan: Default Scenario River: Reach D Reach: Reach D Profile: 1

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Reach D	407	1	87.80	2609.80	2610.42	2610.42	2610.75	0.014852	4.58	14.88	23.54	0.99
Reach D	406	1	87.80	2606.07	2606.85	2606.88	2607.22	0.011020	4.18	16.29	22.94	0.87
Reach D	405	1	87.80	2602.57	2603.56	2603.58	2603.91	0.015351	5.02	16.45	26.38	1.03
Reach D	404	1	87.80	2598.80	2599.67	2599.58	2599.87	0.008547	3.87	18.78	36.74	0.76
Reach D	403	1	87.80	2595.79	2596.63	2596.63	2596.88	0.018889	4.08	16.59	32.48	1.01
Reach D	402	1	87.80	2591.79	2592.56	2592.57	2592.88	0.014783	4.58	16.87	32.51	0.99
Reach D	401	1	87.80	2586.73	2587.38	2587.49	2587.81	0.027400	5.87	14.48	33.09	1.32
Reach D	400	1	87.80	2576.85	2580.01	2579.83	2580.20	0.019493	3.51	19.27	28.81	0.78

STANDARD TABLE 2

HEC-RAS Plan: Default Scenario River: Reach D Reach: Reach D Profile: 1

Reach	River Sta	Profile	E.G. Elev (ft)	W.S. Elev (ft)	Vel Head (ft)	Fritn Loss (ft)	C & E Loss (ft)	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Top Width (ft)
Reach D	407	1	2610.75	2610.42	0.32	3.27	0.02	0.11	67.48	0.00	23.54
Reach D	406	1	2607.22	2606.85	0.27	3.31	0.01	0.13	67.47		22.94
Reach D	405	1	2603.91	2603.56	0.35	2.87	0.04	9.24	58.36		25.38
Reach D	404	1	2599.87	2599.67	0.20	2.98	0.01	2.11	65.48	0.00	30.74
Reach D	403	1	2596.88	2596.63	0.26	3.90	0.00		67.60		32.48
Reach D	402	1	2592.88	2592.56	0.31	4.02	0.00	1.27	62.72	3.60	32.51
Reach D	401	1	2587.81	2587.38	0.44	5.03	0.01	4.64	57.28	5.68	33.09
Reach D	400	1	2580.20	2580.01	0.19				67.60		28.81

HYDRAULIC DEPTH TABLE

HEC-RAS Plan: Default Scenario River: Reach D Reach: Reach D Profile: 1

Reach	River Sta	Profile	Q Total (cfs)	W.S. Elev (ft)	Hydr Depth L (ft)	Hydr Depth C (ft)	Hydr Depth R (ft)	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)
Reach D	407	1	67.80	2610.42	0.14	0.68	0.03	0.11	67.48	0.00
Reach D	406	1	67.80	2606.85	0.24	0.72		0.13	67.47	
Reach D	405	1	67.80	2603.56	0.50	0.74		9.24	58.36	
Reach D	404	1	67.80	2599.67	0.33	0.72	0.14	2.11	65.48	0.00
Reach D	403	1	67.80	2596.63		0.51			67.60	
Reach D	402	1	67.80	2592.56	0.30	0.66	0.26	1.27	62.72	3.60
Reach D	401	1	67.80	2587.38	0.28	0.58	0.30	4.64	57.28	5.68
Reach D	400	1	67.80	2580.01		0.87			67.60	

MANNING'S N-VALUE TABLE

HEC-RAS Plan: Default Scenario River: Reach D Reach: Reach D Profile: 1

Reach	River Sta	Profile	Q Total (cfs)	Mann Wtd Left	Mann Wtd Chnl	Mann Wtd Rght	Mann Wtd Total
Reach D	407	1	67.60	0.045	0.030	0.060	0.029
Reach D	406	1	67.60	0.060	0.030		0.030
Reach D	405	1	67.60	0.060	0.030		0.033
Reach D	404	1	67.60	0.060	0.030	0.060	0.030
Reach D	403	1	67.60		0.030		0.030
Reach D	402	1	67.60	0.060	0.030	0.045	0.029
Reach D	401	1	67.60	0.045	0.030	0.045	0.030
Reach D	400	1	67.60		0.045		0.045

WATERHSEDE

HEC-RAS OUTPUT

Plan: Default Scenario Reach E Reach E RS: 527 Profile: 1

E.G. Elev (ft)	2736.49	Element	Left OB	Channel	Right OB
Vel Head (ft)	1.18	Wt. n-Val.	0.045	0.030	0.060
W.S. Elev (ft)	2735.31	Reach Len. (ft)	260.84	260.84	260.84
Crit W.S. (ft)	2735.39	Flow Area (sq ft)	11.05	35.87	19.36
E.G. Slope (ft/ft)	0.011826	Area (sq ft)	11.05	35.87	19.36
Q Total (cfs)	442.30	Flow (cfs)	38.93	347.55	55.82
Top Width (ft)	43.31	Top Width (ft)	11.19	14.83	17.28
Vel Total (ft/s)	6.67	Avg. Vel. (ft/s)	3.52	9.69	2.88
Max Chl Dpth (ft)	2.58	Hydr. Depth (ft)	0.99	2.42	1.12
Conv. Total (cfs)	4067.3	Conv. (cfs)	358.0	3196.0	513.3
Length Wtd. (ft)	260.84	Wetted Per. (ft)	11.37	14.87	17.47
Min Ch El (ft)	2732.73	Shear (lb/sq ft)	0.72	1.78	0.82
Alpha	1.70	Stream Power (lb/ft s)	227.88	0.00	0.00
Frctn Loss (ft)		Cum Volume (acre-ft)	3.29	10.32	2.79
C & E Loss (ft)		Cum SA (acres)	5.68	7.64	5.32

Plan: Default Scenario Reach E Reach E RS: 526 Profile: 1

E.G. Elev (ft)	2733.64	Element	Left OB	Channel	Right OB
Vel Head (ft)	1.00	Wt. n-Val.	0.045	0.030	0.045
W.S. Elev (ft)	2732.64	Reach Len. (ft)	351.36	351.36	351.36
Crit W.S. (ft)	2732.74	Flow Area (sq ft)	11.81	38.67	17.89
E.G. Slope (ft/ft)	0.009751	Area (sq ft)	11.81	38.67	17.89
Q Total (cfs)	442.30	Flow (cfs)	38.10	344.71	59.49
Top Width (ft)	44.69	Top Width (ft)	11.84	15.65	17.20
Vel Total (ft/s)	6.47	Avg. Vel. (ft/s)	3.23	8.92	3.33
Max Chl Dpth (ft)	2.67	Hydr. Depth (ft)	1.00	2.47	1.04
Conv. Total (cfs)	4479.1	Conv. (cfs)	385.9	3490.8	602.4
Length Wtd. (ft)	351.36	Wetted Per. (ft)	12.01	15.71	17.37
Min Ch El (ft)	2729.97	Shear (lb/sq ft)	0.60	1.50	0.63
Alpha	1.54	Stream Power (lb/ft s)	400.00	0.00	0.00
Frctn Loss (ft)	2.79	Cum Volume (acre-ft)	3.22	10.09	2.68
C & E Loss (ft)	0.05	Cum SA (acres)	5.61	7.54	5.22

Plan: Default Scenario Reach E Reach E RS: 525 Profile: 1

E.G. Elev (ft)	2729.39	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.59	Wt. n-Val.	0.045	0.030	0.060
W.S. Elev (ft)	2728.80	Reach Len. (ft)	351.36	351.36	351.36
Crit W.S. (ft)	2728.87	Flow Area (sq ft)	36.65	47.70	0.60
E.G. Slope (ft/ft)	0.014424	Area (sq ft)	36.65	47.70	0.60
Q Total (cfs)	442.30	Flow (cfs)	112.73	328.73	0.84
Top Width (ft)	93.15	Top Width (ft)	53.55	37.90	1.70
Vel Total (ft/s)	5.21	Avg. Vel. (ft/s)	3.08	6.89	1.41
Max Chl Dpth (ft)	2.11	Hydr. Depth (ft)	0.68	1.26	0.35
Conv. Total (cfs)	3682.8	Conv. (cfs)	938.7	2737.1	7.0
Length Wtd. (ft)	351.36	Wetted Per. (ft)	53.66	38.25	1.84
Min Ch El (ft)	2726.69	Shear (lb/sq ft)	0.62	1.12	0.29
Alpha	1.39	Stream Power (lb/ft s)	400.00	0.00	0.00
Frctn Loss (ft)	4.13	Cum Volume (acre-ft)	3.02	9.75	2.60
C & E Loss (ft)	0.12	Cum SA (acres)	5.35	7.33	5.14

Plan: Default Scenario Reach E Reach E RS: 524 Profile: 1

E.G. Elev (ft)	2724.77	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.60	Wt. n-Val.	0.045	0.035	0.060
W.S. Elev (ft)	2724.18	Reach Len. (ft)	351.36	351.36	351.36
Crit W.S. (ft)	2724.21	Flow Area (sq ft)	32.79	46.98	13.54
E.G. Slope (ft/ft)	0.012044	Area (sq ft)	32.79	46.98	13.54
Q Total (cfs)	442.30	Flow (cfs)	84.40	330.14	27.76
Top Width (ft)	101.85	Top Width (ft)	56.10	25.12	20.63
Vel Total (ft/s)	4.74	Avg. Vel. (ft/s)	2.57	7.03	2.05
Max Chl Dpth (ft)	2.12	Hydr. Depth (ft)	0.58	1.87	0.66
Conv. Total (cfs)	4030.3	Conv. (cfs)	769.1	3008.2	253.0
Length Wtd. (ft)	351.36	Wetted Per. (ft)	56.24	25.37	20.68
Min Ch El (ft)	2722.06	Shear (lb/sq ft)	0.44	1.39	0.49
Alpha	1.71	Stream Power (lb/ft s)	400.00	0.00	0.00
Frctn Loss (ft)	4.62	Cum Volume (acre-ft)	2.74	9.36	2.54
C & E Loss (ft)	0.00	Cum SA (acres)	4.91	7.07	5.05

Plan: Default Scenario Reach E Reach E RS: 523 Profile: 1

E.G. Elev (ft)	2718.89	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.42	Wt. n-Val.	0.060	0.035	0.060
W.S. Elev (ft)	2718.48	Reach Len. (ft)	351.36	351.36	351.36
Crit W.S. (ft)	2718.48	Flow Area (sq ft)	31.17	51.10	14.06
E.G. Slope (ft/ft)	0.024250	Area (sq ft)	31.17	51.10	14.06
Q Total (cfs)	442.30	Flow (cfs)	108.19	301.02	33.09
Top Width (ft)	126.51	Top Width (ft)	36.45	60.58	29.48
Vel Total (ft/s)	4.59	Avg. Vel. (ft/s)	3.47	5.89	2.35
Max Chl Dpth (ft)	1.29	Hydr. Depth (ft)	0.86	0.84	0.48
Conv. Total (cfs)	2840.3	Conv. (cfs)	694.7	1933.1	212.5
Length Wtd. (ft)	351.36	Wetted Per. (ft)	36.51	60.75	29.51
Min Ch El (ft)	2717.18	Shear (lb/sq ft)	1.29	1.27	0.72
Alpha	1.28	Stream Power (lb/ft s)	400.00	0.00	0.00
Frctn Loss (ft)	5.82	Cum Volume (acre-ft)	2.49	8.97	2.43
C & E Loss (ft)	0.05	Cum SA (acres)	4.53	6.73	4.85

Plan: Default Scenario Reach E Reach E RS: 522 Profile: 1

E.G. Elev (ft)	2712.57	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.99	Wt. n-Val.	0.045	0.030	0.060
W.S. Elev (ft)	2711.58	Reach Len. (ft)	335.14	335.14	335.14
Crit W.S. (ft)	2711.73	Flow Area (sq ft)	2.26	53.63	2.80
E.G. Slope (ft/ft)	0.013681	Area (sq ft)	2.26	53.63	2.80
Q Total (cfs)	442.30	Flow (cfs)	6.39	432.99	2.92
Top Width (ft)	48.63	Top Width (ft)	3.36	32.35	12.92
Vel Total (ft/s)	7.54	Avg. Vel. (ft/s)	2.82	8.07	1.04
Max Chl Dpth (ft)	2.63	Hydr. Depth (ft)	0.67	1.66	0.22
Conv. Total (cfs)	3781.5	Conv. (cfs)	54.7	3701.9	24.9
Length Wtd. (ft)	335.14	Wetted Per. (ft)	3.62	32.60	12.93
Min Ch El (ft)	2708.95	Shear (lb/sq ft)	0.53	1.41	0.18
Alpha	1.13	Stream Power (lb/ft s)	400.00	0.00	0.00
Frctn Loss (ft)	6.27	Cum Volume (acre-ft)	2.35	8.55	2.36
C & E Loss (ft)	0.06	Cum SA (acres)	4.37	6.35	4.68

Plan: Default Scenario Reach E Reach E RS: 521 Profile: 1

E.G. Elev (ft)	2708.28	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.43	Wt. n-Val.	0.060	0.030	0.045
W.S. Elev (ft)	2707.85	Reach Len. (ft)	311.14	311.14	311.14
Crit W.S. (ft)	2707.88	Flow Area (sq ft)	3.53	75.85	14.34
E.G. Slope (ft/ft)	0.011108	Area (sq ft)	3.53	75.85	14.34
Q Total (cfs)	442.30	Flow (cfs)	7.15	411.93	23.22
Top Width (ft)	121.32	Top Width (ft)	4.91	71.27	45.14
Vel Total (ft/s)	4.72	Avg. Vel. (ft/s)	2.03	5.43	1.62
Max Chl Dpth (ft)	2.34	Hydr. Depth (ft)	0.72	1.06	0.32
Conv. Total (cfs)	4196.5	Conv. (cfs)	67.9	3908.4	220.3
Length Wtd. (ft)	311.14	Wetted Per. (ft)	5.15	71.49	45.17
Min Ch El (ft)	2705.51	Shear (lb/sq ft)	0.47	0.74	0.22
Alpha	1.24	Stream Power (lb/ft s)	306.58	0.00	0.00
Frctn Loss (ft)	4.12	Cum Volume (acre-ft)	2.33	8.05	2.30
C & E Loss (ft)	0.17	Cum SA (acres)	4.34	5.96	4.45

Plan: Default Scenario Reach E Reach E RS: 520 Profile: 1

E.G. Elev (ft)	2704.73	Element	Left OB	Channel	Right OB
Vel Head (ft)	1.03	Wt. n-Val.	0.045	0.030	0.045
W.S. Elev (ft)	2703.70	Reach Len. (ft)	457.92	457.92	457.92
Crit W.S. (ft)	2703.96	Flow Area (sq ft)	4.12	48.51	11.68
E.G. Slope (ft/ft)	0.011343	Area (sq ft)	4.12	48.51	11.68
Q Total (cfs)	442.30	Flow (cfs)	11.36	409.23	21.72
Top Width (ft)	59.79	Top Width (ft)	5.75	23.72	30.32
Vel Total (ft/s)	6.88	Avg. Vel. (ft/s)	2.76	8.44	1.86
Max Chl Dpth (ft)	2.72	Hydr. Depth (ft)	0.72	2.05	0.39
Conv. Total (cfs)	4152.9	Conv. (cfs)	106.6	3842.3	203.9
Length Wtd. (ft)	457.92	Wetted Per. (ft)	5.92	23.99	30.36
Min Ch El (ft)	2700.98	Shear (lb/sq ft)	0.49	1.43	0.27
Alpha	1.40	Stream Power (lb/ft s)	261.70	0.00	0.00
Frctn Loss (ft)	3.49	Cum Volume (acre-ft)	2.30	7.60	2.21
C & E Loss (ft)	0.06	Cum SA (acres)	4.30	5.62	4.18

Plan: Default Scenario Reach E Reach E RS: 519 Profile: 1

E.G. Elev (ft)	2698.29	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.72	Wt. n-Val.	0.060	0.030	0.045
W.S. Elev (ft)	2697.58	Reach Len. (ft)	338.08	338.08	338.08
Crit W.S. (ft)	2697.79	Flow Area (sq ft)	23.20	38.26	27.13
E.G. Slope (ft/ft)	0.017273	Area (sq ft)	23.20	38.26	27.13
Q Total (cfs)	442.30	Flow (cfs)	69.04	304.72	68.54
Top Width (ft)	116.08	Top Width (ft)	26.43	28.11	61.55
Vel Total (ft/s)	4.99	Avg. Vel. (ft/s)	2.98	7.96	2.53
Max Chl Dpth (ft)	1.89	Hydr. Depth (ft)	0.88	1.36	0.44
Conv. Total (cfs)	3365.4	Conv. (cfs)	525.3	2318.5	521.5
Length Wtd. (ft)	338.08	Wetted Per. (ft)	26.53	28.28	61.69
Min Ch El (ft)	2695.69	Shear (lb/sq ft)	0.94	1.46	0.47
Alpha	1.85	Stream Power (lb/ft s)	272.71	0.00	0.00
Frctn Loss (ft)	6.34	Cum Volume (acre-ft)	2.16	7.15	2.00
C & E Loss (ft)	0.09	Cum SA (acres)	4.13	5.34	3.70

Plan: Default Scenario Reach E Reach E RS: 518 Profile: 1

E.G. Elev (ft)	2690.85	Element	Left OB	Channel	Right OB
Vel Head (ft)	1.55	Wt. n-Val.	0.060	0.035	0.045
W.S. Elev (ft)	2689.31	Reach Len. (ft)	314.53	314.53	314.53
Crit W.S. (ft)	2689.78	Flow Area (sq ft)	1.08	41.26	5.32
E.G. Slope (ft/ft)	0.028243	Area (sq ft)	1.08	41.26	5.32
Q Total (cfs)	442.30	Flow (cfs)	2.91	420.97	18.42
Top Width (ft)	35.90	Top Width (ft)	1.59	23.67	10.65
Vel Total (ft/s)	9.28	Avg. Vel. (ft/s)	2.68	10.20	3.46
Max Chl Dpth (ft)	2.86	Hydr. Depth (ft)	0.68	1.74	0.50
Conv. Total (cfs)	2631.9	Conv. (cfs)	17.3	2504.9	109.6
Length Wtd. (ft)	314.53	Wetted Per. (ft)	2.09	24.12	10.81
Min Ch El (ft)	2686.45	Shear (lb/sq ft)	0.91	3.02	0.87
Alpha	1.16	Stream Power (lb/ft s)	221.93	0.00	0.00
Frctn Loss (ft)	7.36	Cum Volume (acre-ft)	2.06	6.84	1.88
C & E Loss (ft)	0.08	Cum SA (acres)	4.02	5.14	3.42

Plan: Default Scenario Reach E Reach E RS: 517 Profile: 1

E.G. Elev (ft)	2686.40	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.66	Wt. n-Val.	0.000	0.030	0.030
W.S. Elev (ft)	2685.73	Reach Len. (ft)	351.36	351.36	351.36
Crit W.S. (ft)	2685.68	Flow Area (sq ft)	0.00	67.49	0.54
E.G. Slope (ft/ft)	0.010325	Area (sq ft)	0.00	67.49	0.54
Q Total (cfs)	442.30	Flow (cfs)	0.00	441.32	0.98
Top Width (ft)	47.88	Top Width (ft)	0.13	45.32	2.43
Vel Total (ft/s)	6.50	Avg. Vel. (ft/s)	0.16	6.54	1.82
Max Chl Dpth (ft)	2.07	Hydr. Depth (ft)	0.02	1.49	0.22
Conv. Total (cfs)	4352.9	Conv. (cfs)	0.0	4343.2	9.6
Length Wtd. (ft)	351.36	Wetted Per. (ft)	0.14	45.56	2.47
Min Ch El (ft)	2683.66	Shear (lb/sq ft)		0.95	0.14
Alpha	1.01	Stream Power (lb/ft s)	349.70	0.00	0.00
Frctn Loss (ft)	3.97	Cum Volume (acre-ft)	2.06	6.45	1.85
C & E Loss (ft)	0.02	Cum SA (acres)	4.02	4.89	3.37

Plan: Default Scenario Reach E Reach E RS: 516 Profile: 1

E.G. Elev (ft)	2682.41	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.59	Wt. n-Val.	0.045	0.035	0.030
W.S. Elev (ft)	2681.82	Reach Len. (ft)	351.36	351.36	351.36
Crit W.S. (ft)	2681.82	Flow Area (sq ft)	10.65	54.89	12.13
E.G. Slope (ft/ft)	0.012405	Area (sq ft)	10.65	54.89	12.13
Q Total (cfs)	442.30	Flow (cfs)	37.58	361.19	43.53
Top Width (ft)	67.68	Top Width (ft)	11.19	33.40	23.09
Vel Total (ft/s)	5.70	Avg. Vel. (ft/s)	3.53	6.58	3.59
Max Chl Dpth (ft)	1.90	Hydr. Depth (ft)	0.95	1.64	0.53
Conv. Total (cfs)	3971.1	Conv. (cfs)	337.4	3242.9	390.8
Length Wtd. (ft)	351.36	Wetted Per. (ft)	11.32	33.43	23.12
Min Ch El (ft)	2679.92	Shear (lb/sq ft)	0.73	1.27	0.41
Alpha	1.16	Stream Power (lb/ft s)	361.38	0.00	0.00
Frctn Loss (ft)	3.93	Cum Volume (acre-ft)	2.02	5.95	1.80
C & E Loss (ft)	0.03	Cum SA (acres)	3.97	4.58	3.27

Plan: Default Scenario Reach E Reach E RS: 515 Profile: 1

E.G. Elev (ft)	2676.71	Element	Left OB	Channel	Right OB
Vel Head (ft)	1.40	Wt. n-Val.	0.045	0.030	0.030
W.S. Elev (ft)	2675.31	Reach Len. (ft)	351.36	351.36	351.36
Crit W.S. (ft)	2675.68	Flow Area (sq ft)	0.38	46.46	0.27
E.G. Slope (ft/ft)	0.021379	Area (sq ft)	0.38	46.46	0.27
Q Total (cfs)	442.30	Flow (cfs)	0.68	441.03	0.59
Top Width (ft)	33.92	Top Width (ft)	1.61	30.66	1.65
Vel Total (ft/s)	9.39	Avg. Vel. (ft/s)	1.79	9.49	2.16
Max Chl Dpth (ft)	2.06	Hydr. Depth (ft)	0.24	1.52	0.17
Conv. Total (cfs)	3025.0	Conv. (cfs)	4.7	3016.3	4.1
Length Wtd. (ft)	351.36	Wetted Per. (ft)	1.68	30.97	1.69
Min Ch El (ft)	2673.25	Shear (lb/sq ft)	0.30	2.00	0.22
Alpha	1.02	Stream Power (lb/ft s)	278.28	0.00	0.00
Frctn Loss (ft)	5.62	Cum Volume (acre-ft)	1.97	5.54	1.75
C & E Loss (ft)	0.08	Cum SA (acres)	3.92	4.32	3.17

Plan: Default Scenario Reach E Reach E RS: 514 Profile: 1

E.G. Elev (ft)	2670.85	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.60	Wt. n-Val.		0.030	0.030
W.S. Elev (ft)	2670.05	Reach Len. (ft)	351.36	351.36	351.36
Crit W.S. (ft)	2670.18	Flow Area (sq ft)		67.75	6.66
E.G. Slope (ft/ft)	0.013218	Area (sq ft)		67.75	6.66
Q Total (cfs)	442.30	Flow (cfs)		428.08	14.22
Top Width (ft)	94.97	Top Width (ft)		57.80	37.17
Vel Total (ft/s)	5.94	Avg. Vel. (ft/s)		6.32	2.13
Max Chl Dpth (ft)	1.59	Hydr. Depth (ft)		1.17	0.18
Conv. Total (cfs)	3847.1	Conv. (cfs)		3723.4	123.7
Length Wtd. (ft)	351.36	Wetted Per. (ft)		57.97	37.21
Min Ch El (ft)	2668.46	Shear (lb/sq ft)		0.96	0.15
Alpha	1.10	Stream Power (lb/ft s)	400.00	0.00	0.00
Frctn Loss (ft)	5.82	Cum Volume (acre-ft)	1.97	5.08	1.73
C & E Loss (ft)	0.24	Cum SA (acres)	3.91	3.96	3.01

Plan: Default Scenario Reach E Reach E RS: 513 Profile: 1

E.G. Elev (ft)	2666.75	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.67	Wt. n-Val.	0.045	0.030	0.045
W.S. Elev (ft)	2666.09	Reach Len. (ft)	371.93	371.93	371.93
Crit W.S. (ft)	2666.32	Flow Area (sq ft)	62.99	39.81	0.35
E.G. Slope (ft/ft)	0.009410	Area (sq ft)	62.99	39.81	0.35
Q Total (cfs)	442.30	Flow (cfs)	134.15	307.69	0.46
Top Width (ft)	151.33	Top Width (ft)	131.08	19.03	1.22
Vel Total (ft/s)	4.29	Avg. Vel. (ft/s)	2.13	7.73	1.31
Max Chl Dpth (ft)	2.67	Hydr. Depth (ft)	0.48	2.09	0.29
Conv. Total (cfs)	4559.5	Conv. (cfs)	1382.9	3171.9	4.7
Length Wtd. (ft)	371.93	Wetted Per. (ft)	131.25	19.52	1.35
Min Ch El (ft)	2663.42	Shear (lb/sq ft)	0.28	1.20	0.15
Alpha	2.33	Stream Power (lb/ft s)	233.55	0.00	0.00
Frctn Loss (ft)	3.89	Cum Volume (acre-ft)	1.72	4.65	1.70
C & E Loss (ft)	0.01	Cum SA (acres)	3.39	3.65	2.86

Plan: Default Scenario Reach E Reach E RS: 512 Profile: 1

E.G. Elev (ft)	2661.16	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.61	Wt. n-Val.	0.045	0.035	0.045
W.S. Elev (ft)	2660.56	Reach Len. (ft)	330.79	330.79	330.79
Crit W.S. (ft)	2660.69	Flow Area (sq ft)	3.55	62.97	8.23
E.G. Slope (ft/ft)	0.027513	Area (sq ft)	3.55	62.97	8.23
Q Total (cfs)	442.30	Flow (cfs)	12.92	406.87	22.51
Top Width (ft)	100.65	Top Width (ft)	6.48	70.88	23.29
Vel Total (ft/s)	5.92	Avg. Vel. (ft/s)	3.64	6.46	2.74
Max Chl Dpth (ft)	2.04	Hydr. Depth (ft)	0.55	0.89	0.35
Conv. Total (cfs)	2666.5	Conv. (cfs)	77.9	2453.0	135.7
Length Wtd. (ft)	330.79	Wetted Per. (ft)	6.56	71.64	23.31
Min Ch El (ft)	2658.52	Shear (lb/sq ft)	0.93	1.51	0.61
Alpha	1.12	Stream Power (lb/ft s)	253.17	0.00	0.00
Frctn Loss (ft)	5.57	Cum Volume (acre-ft)	1.43	4.21	1.66
C & E Loss (ft)	0.02	Cum SA (acres)	2.80	3.27	2.75

Plan: Default Scenario Reach E Reach E RS: 511 Profile: 1

E.G. Elev (ft)	2654.96	Element	Left OB	Channel	Right OB
Vel Head (ft)	1.30	Wt. n-Val.	0.045	0.030	0.045
W.S. Elev (ft)	2653.66	Reach Len. (ft)	351.36	351.36	351.36
Crit W.S. (ft)	2653.89	Flow Area (sq ft)	0.99	47.13	2.22
E.G. Slope (ft/ft)	0.013381	Area (sq ft)	0.99	47.13	2.22
Q Total (cfs)	442.30	Flow (cfs)	2.06	434.54	5.70
Top Width (ft)	28.93	Top Width (ft)	2.35	22.71	3.88
Vel Total (ft/s)	8.78	Avg. Vel. (ft/s)	2.07	9.22	2.56
Max Chl Dpth (ft)	2.81	Hydr. Depth (ft)	0.42	2.08	0.57
Conv. Total (cfs)	3823.6	Conv. (cfs)	17.8	3756.6	49.3
Length Wtd. (ft)	351.36	Wetted Per. (ft)	2.49	23.09	4.04
Min Ch El (ft)	2650.85	Shear (lb/sq ft)	0.33	1.71	0.46
Alpha	1.08	Stream Power (lb/ft s)	400.00	0.00	0.00
Frctn Loss (ft)	6.15	Cum Volume (acre-ft)	1.42	3.79	1.62
C & E Loss (ft)	0.07	Cum SA (acres)	2.77	2.91	2.65

Plan: Default Scenario Reach E Reach E RS: 510 Profile: 1

E.G. Elev (ft)	2650.09	Element	Left OB	Channel	Right OB
Vel Head (ft)	1.21	Wt. n-Val.	0.045	0.030	0.045
W.S. Elev (ft)	2648.89	Reach Len. (ft)	351.36	351.36	351.36
Crit W.S. (ft)	2649.25	Flow Area (sq ft)	7.36	48.09	1.02
E.G. Slope (ft/ft)	0.014166	Area (sq ft)	7.36	48.09	1.02
Q Total (cfs)	442.30	Flow (cfs)	10.37	430.10	1.83
Top Width (ft)	62.73	Top Width (ft)	34.34	25.11	3.28
Vel Total (ft/s)	7.83	Avg. Vel. (ft/s)	1.41	8.94	1.79
Max Chl Dpth (ft)	2.39	Hydr. Depth (ft)	0.21	1.92	0.31
Conv. Total (cfs)	3716.2	Conv. (cfs)	87.1	3613.6	15.4
Length Wtd. (ft)	351.36	Wetted Per. (ft)	34.39	25.74	3.34
Min Ch El (ft)	2646.50	Shear (lb/sq ft)	0.19	1.85	0.27
Alpha	1.27	Stream Power (lb/ft s)	400.00	0.00	0.00
Frctn Loss (ft)	4.84	Cum Volume (acre-ft)	1.38	3.41	1.61
C & E Loss (ft)	0.03	Cum SA (acres)	2.62	2.72	2.62

Plan: Default Scenario Reach E Reach E RS: 509 Profile: 1

E.G. Elev (ft)	2645.05	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.91	Wt. n-Val.	0.045	0.030	0.045
W.S. Elev (ft)	2644.13	Reach Len. (ft)	373.31	373.31	373.31
Crit W.S. (ft)	2644.32	Flow Area (sq ft)	4.34	53.03	6.43
E.G. Slope (ft/ft)	0.014022	Area (sq ft)	4.34	53.03	6.43
Q Total (cfs)	442.30	Flow (cfs)	11.60	417.26	13.44
Top Width (ft)	57.98	Top Width (ft)	7.61	33.92	16.45
Vel Total (ft/s)	6.93	Avg. Vel. (ft/s)	2.67	7.87	2.09
Max Chl Dpth (ft)	2.33	Hydr. Depth (ft)	0.57	1.56	0.39
Conv. Total (cfs)	3735.1	Conv. (cfs)	98.0	3523.7	113.5
Length Wtd. (ft)	373.31	Wetted Per. (ft)	7.69	34.13	16.47
Min Ch El (ft)	2641.80	Shear (lb/sq ft)	0.49	1.36	0.34
Alpha	1.22	Stream Power (lb/ft s)	400.00	0.00	0.00
Frctn Loss (ft)	4.95	Cum Volume (acre-ft)	1.33	3.00	1.58
C & E Loss (ft)	0.09	Cum SA (acres)	2.45	2.48	2.54

Plan: Default Scenario Reach E Reach E RS: 508 Profile: 1

E.G. Elev (ft)	2637.85	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.67	Wt. n-Val.	0.035	0.035	0.045
W.S. Elev (ft)	2637.19	Reach Len. (ft)	329.42	329.42	329.42
Crit W.S. (ft)	2637.38	Flow Area (sq ft)	13.06	39.28	25.51
E.G. Slope (ft/ft)	0.027480	Area (sq ft)	13.06	39.28	25.51
Q Total (cfs)	442.30	Flow (cfs)	57.37	295.93	89.00
Top Width (ft)	115.41	Top Width (ft)	29.97	35.36	50.08
Vel Total (ft/s)	5.68	Avg. Vel. (ft/s)	4.39	7.53	3.49
Max Chl Dpth (ft)	1.68	Hydr. Depth (ft)	0.44	1.11	0.51
Conv. Total (cfs)	2668.1	Conv. (cfs)	346.1	1785.2	536.9
Length Wtd. (ft)	329.42	Wetted Per. (ft)	30.05	35.47	50.13
Min Ch El (ft)	2635.51	Shear (lb/sq ft)	0.75	1.90	0.87
Alpha	1.33	Stream Power (lb/ft s)	314.57	0.00	0.00
Frctn Loss (ft)	7.12	Cum Volume (acre-ft)	1.26	2.60	1.44
C & E Loss (ft)	0.07	Cum SA (acres)	2.29	2.18	2.26

Plan: Default Scenario Reach E Reach E RS: 507 Profile: 1

E.G. Elev (ft)	2631.90	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.94	Wt. n-Val.		0.030	0.045
W.S. Elev (ft)	2630.96	Reach Len. (ft)	351.36	351.36	351.36
Crit W.S. (ft)	2631.13	Flow Area (sq ft)		50.64	13.57
E.G. Slope (ft/ft)	0.012704	Area (sq ft)		50.64	13.57
Q Total (cfs)	442.30	Flow (cfs)		408.95	33.35
Top Width (ft)	53.57	Top Width (ft)		28.39	25.18
Vel Total (ft/s)	6.89	Avg. Vel. (ft/s)		8.08	2.46
Max Chl Dpth (ft)	2.62	Hydr. Depth (ft)		1.78	0.54
Conv. Total (cfs)	3924.2	Conv. (cfs)		3628.3	295.9
Length Wtd. (ft)	351.36	Wetted Per. (ft)		29.11	25.28
Min Ch El (ft)	2628.33	Shear (lb/sq ft)		1.38	0.43
Alpha	1.28	Stream Power (lb/ft s)	400.00	0.00	0.00
Frctn Loss (ft)	5.93	Cum Volume (acre-ft)	1.21	2.26	1.29
C & E Loss (ft)	0.03	Cum SA (acres)	2.17	1.94	1.97

Plan: Default Scenario Reach E Reach E RS: 506 Profile: 1

E.G. Elev (ft)	2626.06	Element	Left OB	Channel	Right OB
Vel Head (ft)	1.21	Wt. n-Val.	0.045	0.030	0.045
W.S. Elev (ft)	2624.85	Reach Len. (ft)	294.59	294.59	294.59
Crit W.S. (ft)	2625.32	Flow Area (sq ft)	24.53	30.89	8.15
E.G. Slope (ft/ft)	0.022462	Area (sq ft)	24.53	30.89	8.15
Q Total (cfs)	442.30	Flow (cfs)	97.73	314.24	30.32
Top Width (ft)	74.82	Top Width (ft)	43.68	18.69	12.44
Vel Total (ft/s)	6.96	Avg. Vel. (ft/s)	3.98	10.17	3.72
Max Chl Dpth (ft)	2.18	Hydr. Depth (ft)	0.56	1.65	0.65
Conv. Total (cfs)	2951.1	Conv. (cfs)	652.1	2096.7	202.3
Length Wtd. (ft)	294.59	Wetted Per. (ft)	43.82	19.25	12.50
Min Ch El (ft)	2622.67	Shear (lb/sq ft)	0.79	2.25	0.91
Alpha	1.61	Stream Power (lb/ft s)	400.00	0.00	0.00
Frctn Loss (ft)	5.82	Cum Volume (acre-ft)	1.11	1.94	1.21
C & E Loss (ft)	0.03	Cum SA (acres)	2.00	1.75	1.82

Plan: Default Scenario Reach E Reach E RS: 505 Profile: 1

E.G. Elev (ft)	2620.53	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.62	Wt. n-Val.	0.045	0.035	
W.S. Elev (ft)	2619.90	Reach Len. (ft)	330.58	330.58	330.58
Crit W.S. (ft)	2619.94	Flow Area (sq ft)	8.73	65.43	
E.G. Slope (ft/ft)	0.015064	Area (sq ft)	8.73	65.43	
Q Total (cfs)	442.30	Flow (cfs)	19.05	423.25	
Top Width (ft)	69.04	Top Width (ft)	22.10	46.94	
Vel Total (ft/s)	5.96	Avg. Vel. (ft/s)	2.18	6.47	
Max Chl Dpth (ft)	2.64	Hydr. Depth (ft)	0.40	1.39	
Conv. Total (cfs)	3603.7	Conv. (cfs)	155.2	3448.4	
Length Wtd. (ft)	330.58	Wetted Per. (ft)	22.12	47.30	
Min Ch El (ft)	2617.26	Shear (lb/sq ft)	0.37	1.30	
Alpha	1.13	Stream Power (lb/ft s)	256.28	0.00	0.00
Frctn Loss (ft)	5.37	Cum Volume (acre-ft)	1.00	1.61	1.18
C & E Loss (ft)	0.18	Cum SA (acres)	1.78	1.53	1.78

Plan: Default Scenario Reach E Reach E RS: 504 Profile: 1

E.G. Elev (ft)	2615.17	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.72	Wt. n-Val.	0.045	0.030	
W.S. Elev (ft)	2614.45	Reach Len. (ft)	432.03	432.03	432.03
Crit W.S. (ft)	2614.60	Flow Area (sq ft)	5.58	61.30	
E.G. Slope (ft/ft)	0.017378	Area (sq ft)	5.58	61.30	
Q Total (cfs)	442.30	Flow (cfs)	17.91	424.39	
Top Width (ft)	64.77	Top Width (ft)	8.74	56.04	
Vel Total (ft/s)	6.61	Avg. Vel. (ft/s)	3.21	6.92	
Max Chl Dpth (ft)	1.61	Hydr. Depth (ft)	0.64	1.09	
Conv. Total (cfs)	3355.2	Conv. (cfs)	135.9	3219.3	
Length Wtd. (ft)	432.03	Wetted Per. (ft)	8.82	56.13	
Min Ch El (ft)	2612.84	Shear (lb/sq ft)	0.69	1.18	
Alpha	1.06	Stream Power (lb/ft s)	271.94	0.00	0.00
Frctn Loss (ft)	5.34	Cum Volume (acre-ft)	0.94	1.13	1.18
C & E Loss (ft)	0.01	Cum SA (acres)	1.66	1.14	1.78

Plan: Default Scenario Reach E Reach E RS: 503 Profile: 1

E.G. Elev (ft)	2607.79	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.45	Wt. n-Val.	0.045	0.030	0.045
W.S. Elev (ft)	2607.34	Reach Len. (ft)	376.20	376.20	376.20
Crit W.S. (ft)	2607.40	Flow Area (sq ft)	15.30	27.55	51.78
E.G. Slope (ft/ft)	0.021256	Area (sq ft)	15.30	27.55	51.78
Q Total (cfs)	442.30	Flow (cfs)	53.52	192.87	195.91
Top Width (ft)	127.69	Top Width (ft)	24.63	28.83	74.23
Vel Total (ft/s)	4.67	Avg. Vel. (ft/s)	3.50	7.00	3.78
Max Chl Dpth (ft)	1.27	Hydr. Depth (ft)	0.62	0.96	0.70
Conv. Total (cfs)	3033.7	Conv. (cfs)	367.1	1322.9	1343.7
Length Wtd. (ft)	376.20	Wetted Per. (ft)	24.69	28.85	74.32
Min Ch El (ft)	2606.15	Shear (lb/sq ft)	0.82	1.27	0.92
Alpha	1.34	Stream Power (lb/ft s)	220.62	0.00	0.00
Frctn Loss (ft)	7.35	Cum Volume (acre-ft)	0.84	0.69	0.92
C & E Loss (ft)	0.10	Cum SA (acres)	1.49	0.72	1.41

Plan: Default Scenario Reach E Reach E RS: 502 Profile: 1

E.G. Elev (ft)	2601.70	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.71	Wt. n-Val.	0.045	0.030	0.045
W.S. Elev (ft)	2600.98	Reach Len. (ft)	323.42	323.42	323.42
Crit W.S. (ft)	2601.09	Flow Area (sq ft)	10.03	55.77	11.30
E.G. Slope (ft/ft)	0.012677	Area (sq ft)	10.03	55.77	11.30
Q Total (cfs)	442.30	Flow (cfs)	20.83	396.89	24.58
Top Width (ft)	88.73	Top Width (ft)	24.87	38.64	25.22
Vel Total (ft/s)	5.74	Avg. Vel. (ft/s)	2.08	7.12	2.18
Max Chl Dpth (ft)	1.77	Hydr. Depth (ft)	0.40	1.44	0.45
Conv. Total (cfs)	3928.3	Conv. (cfs)	185.0	3525.0	218.3
Length Wtd. (ft)	323.42	Wetted Per. (ft)	25.13	38.69	25.24
Min Ch El (ft)	2599.21	Shear (lb/sq ft)	0.32	1.14	0.35
Alpha	1.39	Stream Power (lb/ft s)	516.04	0.00	0.00
Frctn Loss (ft)	6.07	Cum Volume (acre-ft)	0.73	0.33	0.65
C & E Loss (ft)	0.03	Cum SA (acres)	1.28	0.43	0.98

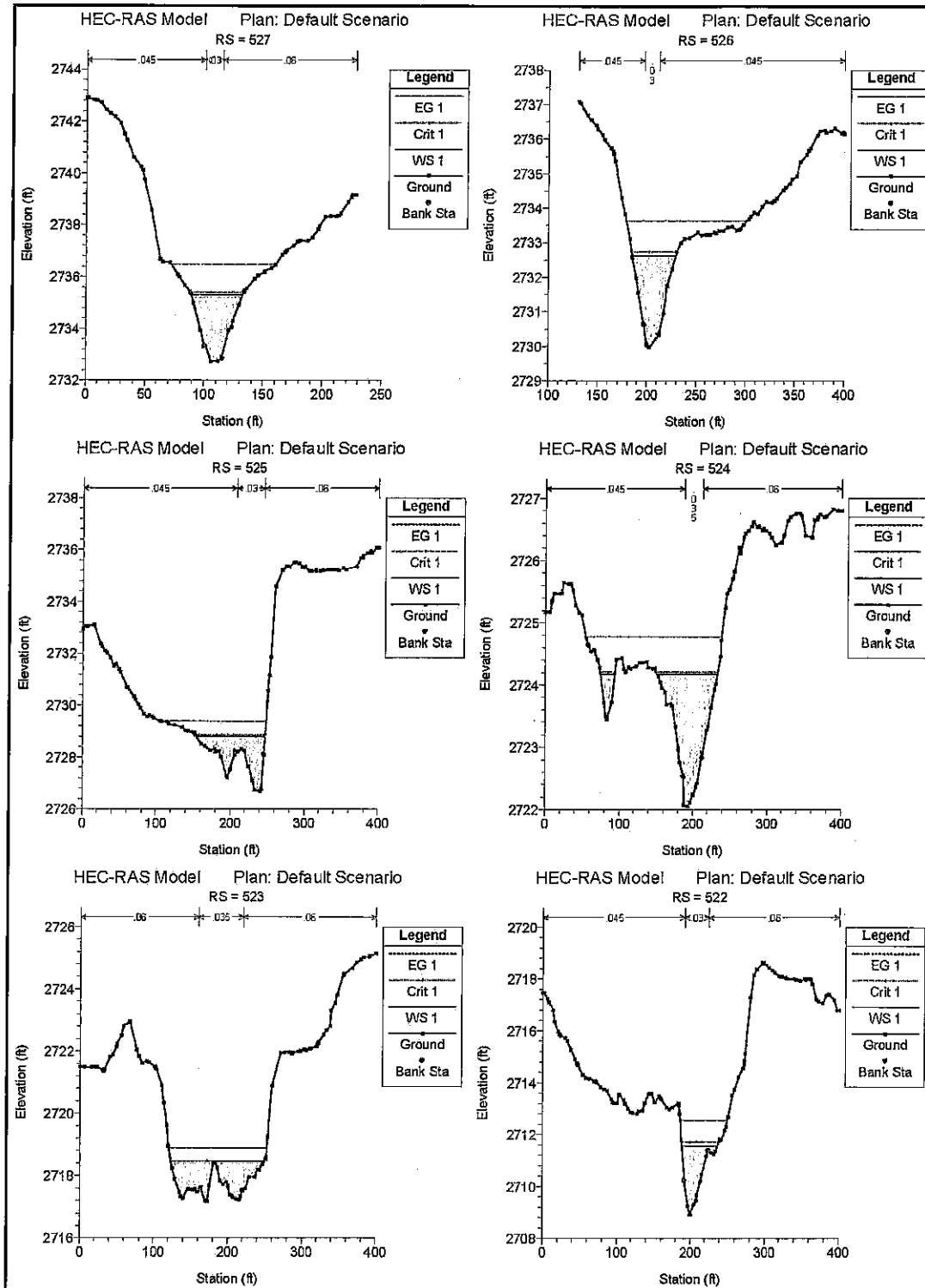
Plan: Default Scenario Reach E Reach E RS: 501 Profile: 1

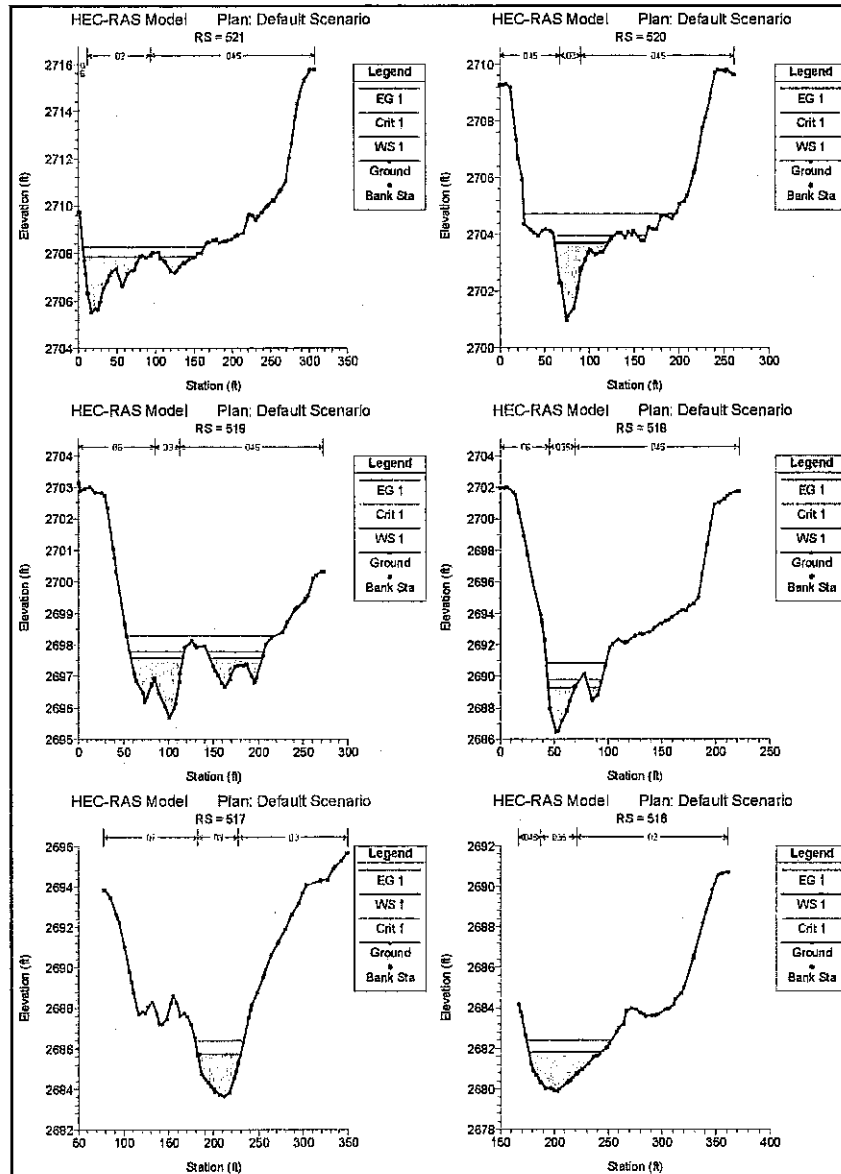
E.G. Elev (ft)	2595.99	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.13	Wt. n-Val.	0.045	0.035	0.045
W.S. Elev (ft)	2595.86	Reach Len. (ft)	260.85	260.85	260.85
Crit W.S. (ft)	2595.70	Flow Area (sq ft)	95.19	18.20	42.69
E.G. Slope (ft/ft)	0.014230	Area (sq ft)	95.19	18.20	42.69
Q Total (cfs)	442.30	Flow (cfs)	278.09	52.10	112.11
Top Width (ft)	269.80	Top Width (ft)	148.91	42.51	78.38
Vel Total (ft/s)	2.83	Avg. Vel. (ft/s)	2.92	2.86	2.63
Max Chl Dpth (ft)	1.48	Hydr. Depth (ft)	0.64	0.43	0.54
Conv. Total (cfs)	3707.8	Conv. (cfs)	2331.3	436.7	939.8
Length Wtd. (ft)	260.85	Wetted Per. (ft)	149.01	42.81	78.44
Min Ch El (ft)	2595.27	Shear (lb/sq ft)	0.57	0.38	0.48
Alpha	1.01	Stream Power (lb/ft s)	400.00	0.00	0.00
Frctn Loss (ft)	3.97	Cum Volume (acre-ft)	0.34	0.05	0.45
C & E Loss (ft)	0.01	Cum SA (acres)	0.63	0.13	0.60

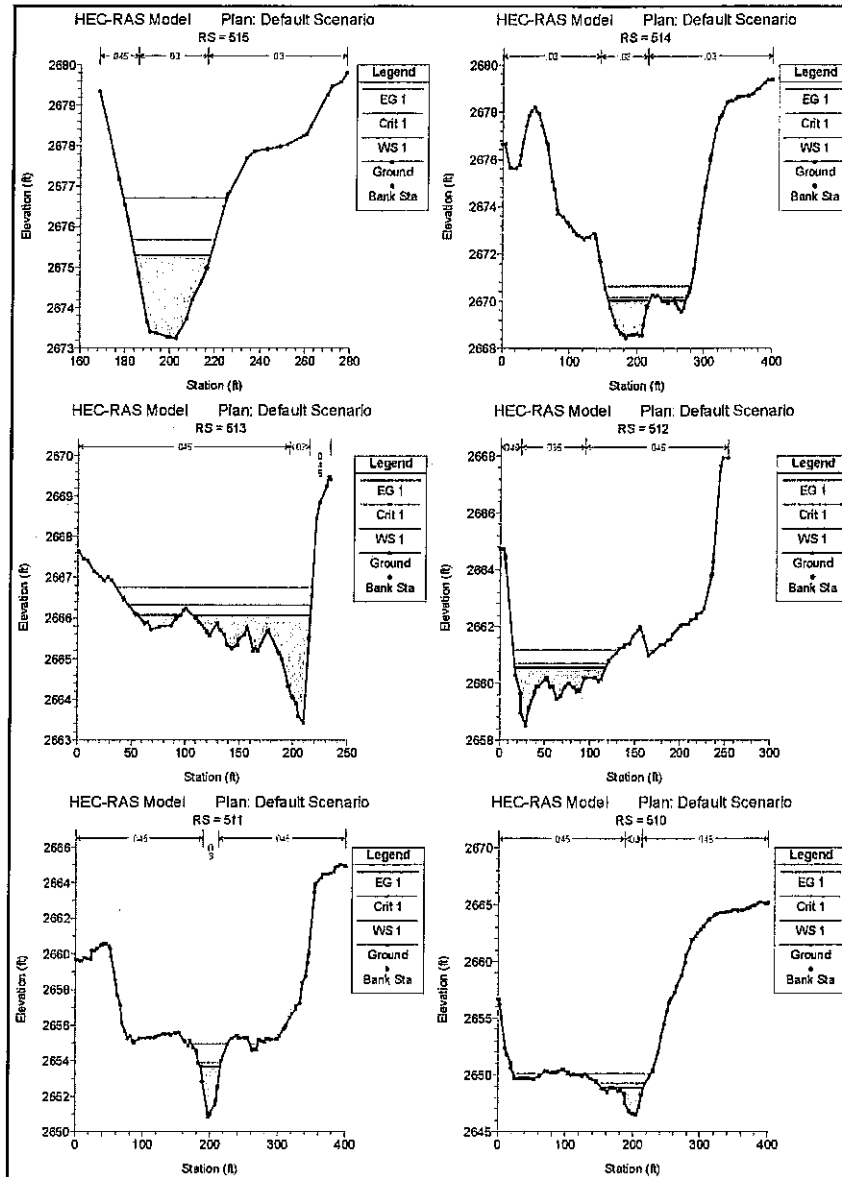
Plan: Default Scenario Reach E Reach E RS: 500 Profile: 1

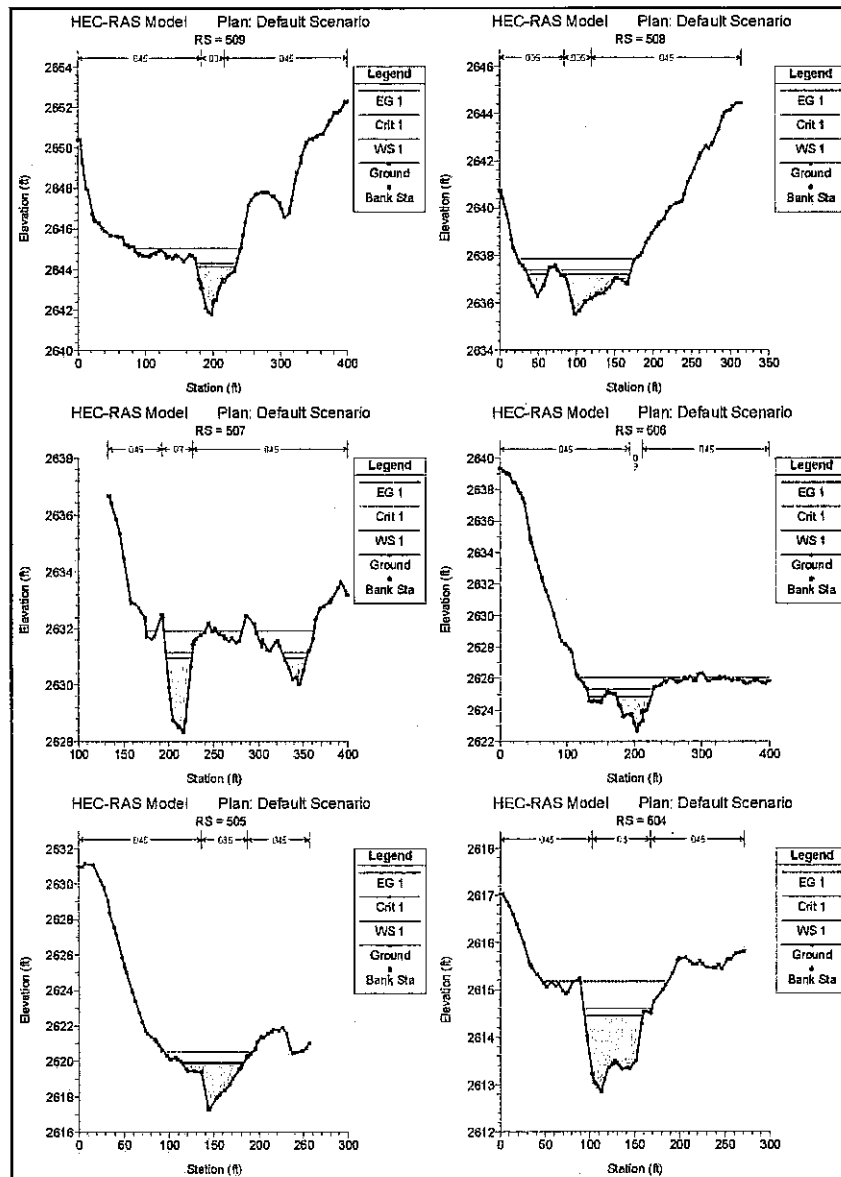
E.G. Elev (ft)	2592.01	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.22	Wt. n-Val.	0.060		0.045
W.S. Elev (ft)	2591.78	Reach Len. (ft)			
Crit W.S. (ft)	2591.65	Flow Area (sq ft)	18.85		107.09
E.G. Slope (ft/ft)	0.016309	Area (sq ft)	18.85		107.09
Q Total (cfs)	442.30	Flow (cfs)	26.70		415.60
Top Width (ft)	183.67	Top Width (ft)	62.74		120.93
Vel Total (ft/s)	3.51	Avg. Vel. (ft/s)	1.42		3.88
Max Chl Dpth (ft)	1.65	Hydr. Depth (ft)	0.30		0.89
Conv. Total (cfs)	3463.4	Conv. (cfs)	209.1		3254.3
Length Wtd. (ft)		Wetted Per. (ft)	62.92		121.30
Min Ch El (ft)	2592.35	Shear (lb/sq ft)	0.31		0.90
Alpha	1.16	Stream Power (lb/ft s)	476.74	0.00	0.00
Frctn Loss (ft)		Cum Volume (acre-ft)			
C & E Loss (ft)		Cum SA (acres)			

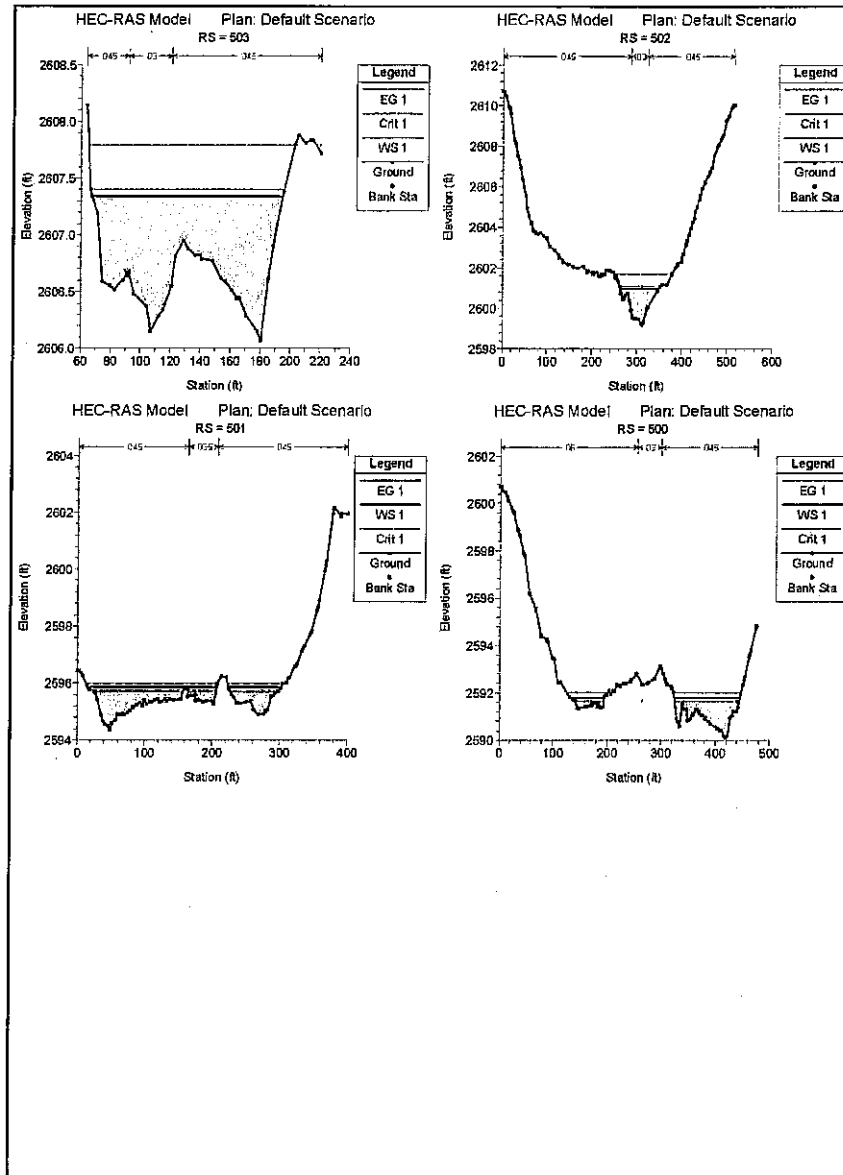
CROSS SECTION PLOTS



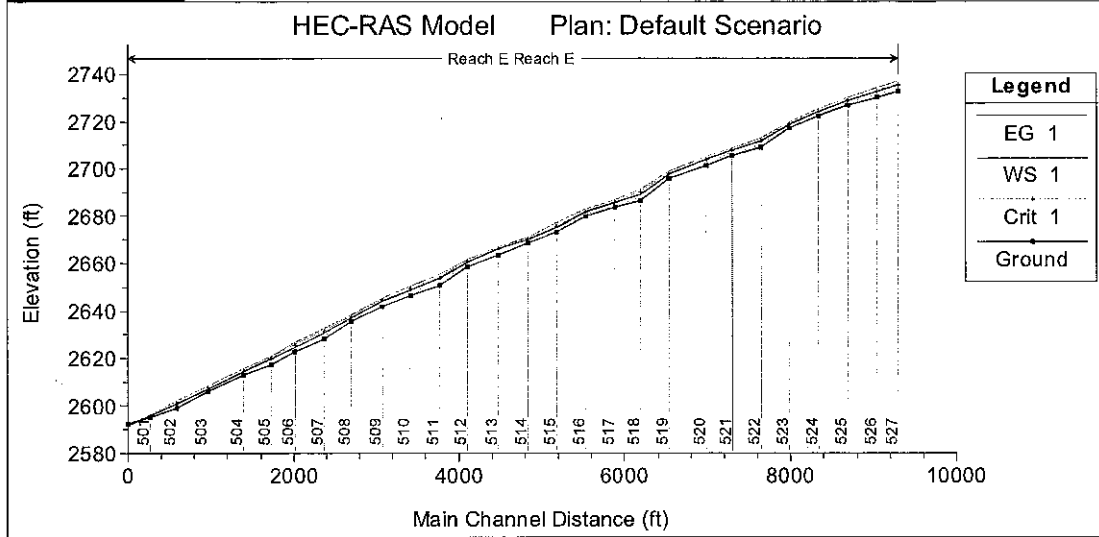








PROFILE PLOT



STANDARD TABLE 1

HEC-RAS Plan: Default Scenario River: Reach E Reach: Reach E Profile: 1												
Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Reach E	527	1	442.30	2732.73	2735.31	2735.39	2738.49	0.011828	6.99	88.28	43.31	1.10
Reach E	528	1	442.30	2729.87	2732.84	2732.74	2733.84	0.009751	6.92	88.37	44.59	1.00
Reach E	526	1	442.30	2726.69	2728.80	2728.87	2729.39	0.014424	6.88	94.85	83.15	1.08
Reach E	524	1	442.30	2722.06	2724.16	2724.21	2724.77	0.012044	7.03	93.32	101.85	0.91
Reach E	523	1	442.30	2717.18	2718.48	2718.48	2718.89	0.024250	5.88	96.33	126.51	1.13
Reach E	522	1	442.30	2708.65	2711.58	2711.73	2712.57	0.013681	8.07	68.69	46.63	1.11
Reach E	521	1	442.30	2705.51	2707.85	2707.88	2708.28	0.011109	5.43	93.72	121.32	0.93
Reach E	520	1	442.30	2700.98	2703.70	2703.95	2704.73	0.011343	6.44	84.31	58.79	1.04
Reach E	618	1	442.30	2695.69	2697.58	2697.79	2698.28	0.017273	7.56	88.59	116.08	1.20
Reach E	518	1	442.30	2686.45	2688.31	2688.78	2690.85	0.028243	10.20	47.67	35.90	1.36
Reach E	517	1	442.30	2683.68	2685.73	2685.68	2686.40	0.010326	6.54	69.03	47.88	0.94
Reach E	516	1	442.30	2678.92	2681.82	2681.82	2682.41	0.012405	6.56	77.66	67.68	0.90
Reach E	515	1	442.30	2673.25	2675.31	2675.68	2676.71	0.021379	8.48	47.12	33.92	1.36
Reach E	514	1	442.30	2668.46	2670.05	2670.19	2670.65	0.013218	6.32	74.42	84.97	1.02
Reach E	513	1	442.30	2663.42	2668.09	2668.32	2668.75	0.008410	7.73	103.15	151.33	0.94
Reach E	512	1	442.30	2658.52	2660.58	2660.69	2661.16	0.027513	5.46	74.75	100.85	1.21
Reach E	511	1	442.30	2650.85	2653.68	2653.89	2654.98	0.019381	9.22	50.35	28.93	1.13
Reach E	510	1	442.30	2646.50	2649.88	2649.25	2650.09	0.014168	8.94	56.48	82.73	1.14
Reach E	509	1	442.30	2641.80	2644.13	2644.32	2645.05	0.014022	7.87	63.81	57.98	1.11
Reach E	508	1	442.30	2635.51	2637.19	2637.38	2637.85	0.027480	7.53	77.66	115.41	1.26
Reach E	507	1	442.30	2628.33	2630.96	2631.13	2631.80	0.012704	8.08	64.21	63.57	1.07
Reach E	506	1	442.30	2622.67	2624.85	2625.32	2626.05	0.022462	10.17	69.56	74.82	1.39
Reach E	505	1	442.30	2617.28	2618.90	2618.94	2620.53	0.015084	8.47	74.16	89.04	0.97
Reach E	504	1	442.30	2612.84	2614.45	2614.50	2615.17	0.017378	6.92	66.86	84.77	1.17
Reach E	503	1	442.30	2608.15	2607.34	2607.40	2607.79	0.021256	7.00	94.82	127.69	1.28
Reach E	502	1	442.30	2599.21	2600.98	2601.03	2601.70	0.012677	7.12	77.10	88.73	1.04
Reach E	501	1	442.30	2595.27	2595.66	2595.70	2596.89	0.014230	2.88	156.08	289.80	0.77
Reach E	500	1	442.30	2592.35	2591.78	2591.86	2592.01	0.018308		125.94	193.67	0.90

STANDARD TABLE 2

HEC-RAS Plan: Default Scenario River: Reach E Reach: Reach E Profile: 1

Reach	River Sta	Profile	E.G. Elev (ft)	W.S. Elev (ft)	Vel Head (ft)	Frictn Loss (ft)	C & E Loss (ft)	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Top Width (ft)
Reach E	527	1	2736.49	2735.31	1.18			38.93	347.55	55.62	43.31
Reach E	526	1	2733.64	2732.84	1.00	2.78	0.05	38.10	344.71	58.49	44.89
Reach E	525	1	2729.39	2728.80	0.99	4.13	0.12	112.73	328.73	0.84	93.15
Reach E	524	1	2724.77	2724.18	0.60	4.82	0.00	84.40	330.14	27.76	101.85
Reach E	523	1	2718.89	2718.48	0.42	5.82	0.05	108.19	301.02	33.09	126.51
Reach E	522	1	2712.57	2711.58	0.99	6.27	0.06	6.39	432.99	2.92	48.83
Reach E	521	1	2708.28	2707.85	0.43	4.12	0.17	7.15	411.93	23.22	121.32
Reach E	520	1	2704.73	2703.70	1.03	3.49	0.08	11.36	409.23	21.72	59.79
Reach E	519	1	2698.29	2697.58	0.72	6.34	0.09	69.04	304.72	68.54	116.08
Reach E	518	1	2690.85	2689.31	1.55	7.36	0.08	2.91	420.97	18.42	35.90
Reach E	517	1	2686.40	2685.73	0.88	3.97	0.02	0.00	441.32	0.98	47.88
Reach E	516	1	2682.41	2681.82	0.59	3.93	0.03	37.58	361.19	43.53	67.68
Reach E	515	1	2676.71	2675.31	1.40	5.82	0.08	0.68	441.03	0.59	33.92
Reach E	514	1	2670.65	2670.05	0.60	5.82	0.24		428.08	14.22	94.97
Reach E	513	1	2666.75	2666.09	0.67	3.89	0.01	134.15	307.69	0.46	151.33
Reach E	512	1	2661.16	2660.56	0.61	5.57	0.02	12.92	406.87	22.51	100.65
Reach E	511	1	2654.98	2653.66	1.30	6.15	0.07	2.06	434.54	5.70	28.93
Reach E	510	1	2650.09	2648.89	1.21	4.84	0.03	10.37	430.10	1.83	62.73
Reach E	509	1	2645.05	2644.13	0.91	4.95	0.09	11.60	417.26	13.44	57.98
Reach E	508	1	2637.85	2637.19	0.67	7.12	0.07	57.37	295.93	89.00	115.41
Reach E	507	1	2631.90	2630.96	0.94	5.93	0.03		408.95	33.35	53.57
Reach E	506	1	2626.06	2624.85	1.21	5.82	0.03	97.73	314.24	30.32	74.82
Reach E	505	1	2620.53	2619.90	0.62	5.37	0.18	19.05	423.25		69.04
Reach E	504	1	2615.17	2614.45	0.72	5.34	0.01	17.91	424.39		64.77
Reach E	503	1	2607.79	2607.34	0.45	7.35	0.10	53.52	192.87	195.91	127.69
Reach E	502	1	2601.70	2600.98	0.71	6.07	0.03	20.83	396.89	24.58	88.73
Reach E	501	1	2595.99	2595.86	0.13	3.97	0.01	278.09	52.10	112.11	269.60
Reach E	500	1	2592.01	2591.78	0.22			26.70		415.60	183.67

HYDRAULIC DEPTH TABLE

HEC-RAS Plan: Default Scenario River: Reach E Reach: Reach E Profile: 1

Reach	River Sta	Profile	Q Total (cfs)	W.S. Elev (ft)	Hydr Depth L (ft)	Hydr Depth C (ft)	Hydr Depth R (ft)	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)
Reach E	527	1	442.30	2735.31	0.99	2.42	1.12	38.93	347.55	55.82
Reach E	526	1	442.30	2732.84	1.00	2.47	1.04	38.10	344.71	58.49
Reach E	525	1	442.30	2728.80	0.68	1.26	0.35	112.73	328.73	0.84
Reach E	524	1	442.30	2724.18	0.58	1.87	0.66	84.40	330.14	27.76
Reach E	523	1	442.30	2718.48	0.86	0.84	0.48	108.19	301.02	33.09
Reach E	522	1	442.30	2711.58	0.67	1.66	0.22	6.39	432.99	2.92
Reach E	521	1	442.30	2707.85	0.72	1.06	0.32	7.15	411.93	23.22
Reach E	520	1	442.30	2703.70	0.72	2.05	0.39	11.36	409.23	21.72
Reach E	519	1	442.30	2697.58	0.88	1.36	0.44	69.04	304.72	68.54
Reach E	518	1	442.30	2689.31	0.88	1.74	0.50	2.91	420.97	18.42
Reach E	517	1	442.30	2685.73	0.02	1.49	0.22	0.00	441.32	0.98
Reach E	516	1	442.30	2681.82	0.95	1.64	0.53	37.58	361.19	43.53
Reach E	515	1	442.30	2675.31	0.24	1.52	0.17	0.68	441.03	0.59
Reach E	514	1	442.30	2670.05		1.17	0.18		428.08	14.22
Reach E	513	1	442.30	2666.09	0.48	2.09	0.29	134.15	307.69	0.46
Reach E	512	1	442.30	2660.56	0.55	0.89	0.35	12.92	406.87	22.51
Reach E	511	1	442.30	2653.66	0.42	2.08	0.57	2.06	434.54	5.70
Reach E	510	1	442.30	2648.89	0.21	1.92	0.31	10.37	430.10	1.83
Reach E	509	1	442.30	2644.13	0.57	1.56	0.39	11.60	417.26	13.44
Reach E	508	1	442.30	2637.19	0.44	1.11	0.51	57.37	295.93	89.00
Reach E	507	1	442.30	2630.96		1.78	0.54		408.95	33.35
Reach E	506	1	442.30	2624.85	0.58	1.65	0.65	97.73	314.24	30.32
Reach E	505	1	442.30	2619.90	0.40	1.39		19.05	423.25	
Reach E	504	1	442.30	2614.45	0.64	1.09		17.91	424.39	
Reach E	503	1	442.30	2607.34	0.62	0.96	0.70	53.52	192.87	195.91
Reach E	502	1	442.30	2600.98	0.40	1.44	0.45	20.83	396.89	24.58
Reach E	501	1	442.30	2595.86	0.64	0.43	0.54	278.09	52.10	112.11
Reach E	500	1	442.30	2591.78	0.30		0.80	26.70		415.60

MANNING'S N-VALUE TABLE

HEC-RAS Plan: Default Scenario River: Reach E Reach: Reach E Profile: 1

Reach	River Sta	Profile	Q Total (cfs)	Mann Wld Left	Mann Wld Chnl	Mann Wld Right	Mann Wld Total
Reach E	527	1	442.30	0.045	0.030	0.080	0.032
Reach E	526	1	442.30	0.045	0.030	0.045	0.030
Reach E	525	1	442.30	0.045	0.030	0.080	0.032
Reach E	524	1	442.30	0.045	0.035	0.060	0.032
Reach E	523	1	442.30	0.060	0.035	0.060	0.042
Reach E	522	1	442.30	0.045	0.030	0.060	0.026
Reach E	521	1	442.30	0.060	0.030	0.045	0.028
Reach E	520	1	442.30	0.045	0.030	0.045	0.024
Reach E	519	1	442.30	0.060	0.030	0.045	0.033
Reach E	518	1	442.30	0.060	0.035	0.045	0.032
Reach E	517	1	442.30	0.000	0.030	0.030	0.029
Reach E	516	1	442.30	0.045	0.035	0.030	0.032
Reach E	515	1	442.30	0.045	0.030	0.030	0.029
Reach E	514	1	442.30		0.030	0.030	0.024
Reach E	513	1	442.30	0.045	0.030	0.045	0.026
Reach E	512	1	442.30	0.045	0.035	0.045	0.034
Reach E	511	1	442.30	0.045	0.030	0.045	0.028
Reach E	510	1	442.30	0.045	0.030	0.045	0.021
Reach E	509	1	442.30	0.045	0.030	0.045	0.027
Reach E	508	1	442.30	0.035	0.035	0.045	0.033
Reach E	507	1	442.30		0.030	0.045	0.027
Reach E	506	1	442.30	0.045	0.030	0.045	0.029
Reach E	505	1	442.30	0.045	0.035		0.032
Reach E	504	1	442.30	0.045	0.030		0.030
Reach E	503	1	442.30	0.045	0.030	0.045	0.038
Reach E	502	1	442.30	0.045	0.030	0.045	0.026
Reach E	501	1	442.30	0.045	0.035	0.045	0.043
Reach E	500	1	442.30	0.060		0.045	0.042

WATERHSED F

HEC-RAS OUTPUT

Plan: Default Scenario Reach F Reach F RS: 631 Profile: 1

E.G. Elev (ft)	2785.81	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.32	Wt. n-Val.	0.045	0.035	0.060
W.S. Elev (ft)	2785.48	Reach Len. (ft)	347.57	347.57	347.57
Crit W.S. (ft)	2785.49	Flow Area (sq ft)	24.05	25.14	36.61
E.G. Slope (ft/ft)	0.016864	Area (sq ft)	24.05	25.14	36.61
Q Total (cfs)	305.70	Flow (cfs)	69.99	149.90	85.81
Top Width (ft)	124.17	Top Width (ft)	43.01	22.33	58.84
Vel Total (ft/s)	3.56	Avg. Vel. (ft/s)	2.91	5.96	2.34
Max Chl Dpth (ft)	1.29	Hydr. Depth (ft)	0.56	1.13	0.62
Conv. Total (cfs)	2354.1	Conv. (cfs)	538.9	1154.3	660.8
Length Wtd. (ft)	347.57	Wetted Per. (ft)	43.03	22.35	58.85
Min Ch El (ft)	2784.19	Shear (lb/sq ft)	0.59	1.18	0.66
Alpha	1.65	Stream Power (lb/ft s)	400.00	0.00	0.00
Frctn Loss (ft)		Cum Volume (acre-ft)	3.60	9.63	2.58
C & E Loss (ft)		Cum SA (acres)	6.90	8.93	5.06

Plan: Default Scenario Reach F Reach F RS: 630 Profile: 1

E.G. Elev (ft)	2779.82	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.36	Wt. n-Val.	0.045	0.030	0.045
W.S. Elev (ft)	2779.46	Reach Len. (ft)	347.57	347.57	347.57
Crit W.S. (ft)	2779.49	Flow Area (sq ft)	6.42	36.59	29.76
E.G. Slope (ft/ft)	0.017612	Area (sq ft)	6.42	36.59	29.76
Q Total (cfs)	305.70	Flow (cfs)	14.28	203.76	87.67
Top Width (ft)	119.64	Top Width (ft)	17.73	46.90	55.01
Vel Total (ft/s)	4.20	Avg. Vel. (ft/s)	2.22	5.57	2.95
Max Chl Dpth (ft)	1.35	Hydr. Depth (ft)	0.36	0.78	0.54
Conv. Total (cfs)	2303.5	Conv. (cfs)	107.6	1535.3	660.6
Length Wtd. (ft)	347.57	Wetted Per. (ft)	17.74	46.94	55.13
Min Ch El (ft)	2778.43	Shear (lb/sq ft)	0.40	0.86	0.59
Alpha	1.33	Stream Power (lb/ft s)	400.00	0.00	0.00
Frctn Loss (ft)	5.99	Cum Volume (acre-ft)	3.48	9.38	2.31
C & E Loss (ft)	0.00	Cum SA (acres)	6.66	8.65	4.61

Plan: Default Scenario Reach F Reach F RS: 629 Profile: 1

E.G. Elev (ft)	2773.99	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.42	Wt. n-Val.	0.035	0.030	0.035
W.S. Elev (ft)	2773.57	Reach Len. (ft)	304.35	304.35	304.35
Crit W.S. (ft)	2773.60	Flow Area (sq ft)	0.16	58.80	0.11
E.G. Slope (ft/ft)	0.015959	Area (sq ft)	0.16	58.80	0.11
Q Total (cfs)	305.70	Flow (cfs)	0.14	305.48	0.09
Top Width (ft)	81.86	Top Width (ft)	2.34	76.89	2.63
Vel Total (ft/s)	5.18	Avg. Vel. (ft/s)	0.88	5.20	0.80
Max Chl Dpth (ft)	2.47	Hydr. Depth (ft)	0.07	0.76	0.04
Conv. Total (cfs)	2419.9	Conv. (cfs)	1.1	2418.1	0.7
Length Wtd. (ft)	304.35	Wetted Per. (ft)	2.35	77.71	2.64
Min Ch El (ft)	2771.10	Shear (lb/sq ft)	0.07	0.75	0.04
Alpha	1.01	Stream Power (lb/ft s)	400.00	0.00	0.00
Frctn Loss (ft)	5.82	Cum Volume (acre-ft)	3.45	9.00	2.20
C & E Loss (ft)	0.01	Cum SA (acres)	6.58	8.16	4.38

Plan: Default Scenario Reach F Reach F RS: 628 Profile: 1

E.G. Elev (ft)	2769.33	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.80	Wt. n-Val.	0.045	0.035	0.045
W.S. Elev (ft)	2768.53	Reach Len. (ft)	390.78	390.78	390.78
Crit W.S. (ft)	2768.75	Flow Area (sq ft)	2.72	37.77	10.38
E.G. Slope (ft/ft)	0.014509	Area (sq ft)	2.72	37.77	10.38
Q Total (cfs)	305.70	Flow (cfs)	3.67	281.47	20.56
Top Width (ft)	64.21	Top Width (ft)	13.73	21.04	29.44
Vel Total (ft/s)	6.01	Avg. Vel. (ft/s)	1.35	7.45	1.98
Max Chl Dpth (ft)	2.80	Hydr. Depth (ft)	0.20	1.80	0.35
Conv. Total (cfs)	2537.9	Conv. (cfs)	30.5	2336.7	170.7
Length Wtd. (ft)	390.78	Wetted Per. (ft)	13.76	21.48	29.54
Min Ch El (ft)	2765.73	Shear (lb/sq ft)	0.18	1.59	0.32
Alpha	1.42	Stream Power (lb/ft s)	234.68	0.00	0.00
Frctn Loss (ft)	4.63	Cum Volume (acre-ft)	3.44	8.67	2.16
C & E Loss (ft)	0.04	Cum SA (acres)	6.52	7.82	4.27

Plan: Default Scenario Reach F Reach F RS: 627 Profile: 1

E.G. Elev (ft)	2763.01	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.64	Wt. n-Val.	0.045	0.035	0.045
W.S. Elev (ft)	2762.36	Reach Len. (ft)	347.57	347.57	347.57
Crit W.S. (ft)	2762.50	Flow Area (sq ft)	8.79	37.66	8.52
E.G. Slope (ft/ft)	0.017888	Area (sq ft)	8.79	37.66	8.52
Q Total (cfs)	305.70	Flow (cfs)	20.22	259.18	26.29
Top Width (ft)	66.02	Top Width (ft)	23.33	28.17	14.53
Vel Total (ft/s)	5.56	Avg. Vel. (ft/s)	2.30	6.88	3.09
Max Chl Dpth (ft)	1.59	Hydr. Depth (ft)	0.38	1.34	0.59
Conv. Total (cfs)	2285.7	Conv. (cfs)	151.2	1937.9	196.6
Length Wtd. (ft)	347.57	Wetted Per. (ft)	23.35	28.22	14.57
Min Ch El (ft)	2760.77	Shear (lb/sq ft)	0.42	1.49	0.65
Alpha	1.34	Stream Power (lb/ft s)	400.00	0.00	0.00
Frctn Loss (ft)	6.28	Cum Volume (acre-ft)	3.39	8.33	2.07
C & E Loss (ft)	0.05	Cum SA (acres)	6.36	7.59	4.07

Plan: Default Scenario Reach F Reach F RS: 626 Profile: 1

E.G. Elev (ft)	2756.61	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.71	Wt. n-Val.	0.045	0.035	0.045
W.S. Elev (ft)	2755.91	Reach Len. (ft)	347.57	347.57	347.57
Crit W.S. (ft)	2756.02	Flow Area (sq ft)	1.45	40.98	6.71
E.G. Slope (ft/ft)	0.018895	Area (sq ft)	1.45	40.98	6.71
Q Total (cfs)	305.70	Flow (cfs)	3.09	284.97	17.64
Top Width (ft)	50.98	Top Width (ft)	4.45	31.37	15.16
Vel Total (ft/s)	6.22	Avg. Vel. (ft/s)	2.13	6.95	2.63
Max Chl Dpth (ft)	1.93	Hydr. Depth (ft)	0.33	1.31	0.44
Conv. Total (cfs)	2224.0	Conv. (cfs)	22.5	2073.1	128.4
Length Wtd. (ft)	347.57	Wetted Per. (ft)	4.49	31.50	15.21
Min Ch El (ft)	2753.98	Shear (lb/sq ft)	0.38	1.53	0.52
Alpha	1.18	Stream Power (lb/ft s)	400.00	0.00	0.00
Frctn Loss (ft)	6.39	Cum Volume (acre-ft)	3.35	8.01	2.01
C & E Loss (ft)	0.01	Cum SA (acres)	6.25	7.36	3.95

Plan: Default Scenario Reach F Reach F RS: 625 Profile: 1

E.G. Elev (ft)	2751.42	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.45	Wt. n-Val.	0.045	0.035	0.045
W.S. Elev (ft)	2750.97	Reach Len. (ft)	347.57	347.57	347.57
Crit W.S. (ft)	2750.89	Flow Area (sq ft)	12.71	48.46	5.37
E.G. Slope (ft/ft)	0.009453	Area (sq ft)	12.71	48.46	5.37
Q Total (cfs)	305.70	Flow (cfs)	21.77	274.08	9.85
Top Width (ft)	77.15	Top Width (ft)	34.66	30.13	12.36
Vel Total (ft/s)	4.59	Avg. Vel. (ft/s)	1.71	5.66	1.84
Max Chl Dpth (ft)	1.97	Hydr. Depth (ft)	0.37	1.61	0.43
Conv. Total (cfs)	3144.2	Conv. (cfs)	223.9	2819.0	101.3
Length Wtd. (ft)	347.57	Wetted Per. (ft)	34.72	30.22	12.41
Min Ch El (ft)	2749.00	Shear (lb/sq ft)	0.22	0.95	0.26
Alpha	1.37	Stream Power (lb/ft s)	400.00	0.00	0.00
Frctn Loss (ft)	3.42	Cum Volume (acre-ft)	3.29	7.66	1.97
C & E Loss (ft)	0.03	Cum SA (acres)	6.09	7.11	3.84

Plan: Default Scenario Reach F Reach F RS: 624 Profile: 1

E.G. Elev (ft)	2747.98	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.36	Wt. n-Val.		0.025	0.025
W.S. Elev (ft)	2747.62	Reach Len. (ft)	347.57	347.57	347.57
Crit W.S. (ft)	2747.62	Flow Area (sq ft)		63.41	0.01
E.G. Slope (ft/ft)	0.010252	Area (sq ft)		63.41	0.01
Q Total (cfs)	305.70	Flow (cfs)		305.69	0.01
Top Width (ft)	88.77	Top Width (ft)		88.36	0.41
Vel Total (ft/s)	4.82	Avg. Vel. (ft/s)		4.82	0.55
Max Chl Dpth (ft)	1.23	Hydr. Depth (ft)		0.72	0.03
Conv. Total (cfs)	3019.1	Conv. (cfs)		3019.1	0.1
Length Wtd. (ft)	347.57	Wetted Per. (ft)		88.46	0.41
Min Ch El (ft)	2746.39	Shear (lb/sq ft)		0.46	0.02
Alpha	1.00	Stream Power (lb/ft s)	212.74	0.00	0.00
Frctn Loss (ft)	4.64	Cum Volume (acre-ft)	3.24	7.21	1.94
C & E Loss (ft)	0.01	Cum SA (acres)	5.95	6.64	3.79

Plan: Default Scenario Reach F Reach F RS: 623 Profile: 1

E.G. Elev (ft)	2740.49	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.72	Wt. n-Val.	0.045	0.035	0.045
W.S. Elev (ft)	2739.77	Reach Len. (ft)	347.57	347.57	347.57
Crit W.S. (ft)	2740.00	Flow Area (sq ft)	0.24	43.99	1.33
E.G. Slope (ft/ft)	0.066955	Area (sq ft)	0.24	43.99	1.33
Q Total (cfs)	305.70	Flow (cfs)	0.37	301.62	3.71
Top Width (ft)	99.68	Top Width (ft)	3.14	89.18	7.35
Vel Total (ft/s)	6.71	Avg. Vel. (ft/s)	1.54	6.86	2.79
Max Chl Dpth (ft)	0.86	Hydr. Depth (ft)	0.08	0.49	0.18
Conv. Total (cfs)	1181.4	Conv. (cfs)	1.4	1165.6	14.3
Length Wtd. (ft)	347.57	Wetted Per. (ft)	3.15	89.23	7.36
Min Ch El (ft)	2738.91	Shear (lb/sq ft)	0.32	2.06	0.76
Alpha	1.03	Stream Power (lb/ft s)	320.54	0.00	0.00
Frctn Loss (ft)	7.44	Cum Volume (acre-ft)	3.24	6.78	1.94
C & E Loss (ft)	0.04	Cum SA (acres)	5.94	5.93	3.76

Plan: Default Scenario Reach F Reach F RS: 622 Profile: 1

E.G. Elev (ft)	2733.49	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.28	Wt. n-Val.	0.045	0.030	0.045
W.S. Elev (ft)	2733.21	Reach Len. (ft)	347.57	347.57	347.57
Crit W.S. (ft)	2733.19	Flow Area (sq ft)	39.94	24.76	17.78
E.G. Slope (ft/ft)	0.017551	Area (sq ft)	39.94	24.76	17.78
Q Total (cfs)	305.70	Flow (cfs)	121.51	136.33	47.86
Top Width (ft)	137.73	Top Width (ft)	68.77	32.14	36.82
Vel Total (ft/s)	3.71	Avg. Vel. (ft/s)	3.04	5.51	2.69
Max Chl Dpth (ft)	1.57	Hydr. Depth (ft)	0.58	0.77	0.48
Conv. Total (cfs)	2307.5	Conv. (cfs)	917.2	1029.1	361.2
Length Wtd. (ft)	347.57	Wetted Per. (ft)	68.87	32.22	36.86
Min Ch El (ft)	2731.63	Shear (lb/sq ft)	0.64	0.84	0.53
Alpha	1.33	Stream Power (lb/ft s)	400.00	0.00	0.00
Frctn Loss (ft)	4.82	Cum Volume (acre-ft)	3.08	6.51	1.86
C & E Loss (ft)	0.03	Cum SA (acres)	5.65	5.45	3.58

Plan: Default Scenario Reach F Reach F RS: 621 Profile: 1

E.G. Elev (ft)	2728.34	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.62	Wt. n-Val.	0.045	0.030	0.060
W.S. Elev (ft)	2727.72	Reach Len. (ft)	347.57	347.57	347.57
Crit W.S. (ft)	2727.73	Flow Area (sq ft)	1.02	46.90	3.54
E.G. Slope (ft/ft)	0.011822	Area (sq ft)	1.02	46.90	3.54
Q Total (cfs)	305.70	Flow (cfs)	1.18	298.58	5.94
Top Width (ft)	48.78	Top Width (ft)	5.53	36.11	7.14
Vel Total (ft/s)	5.94	Avg. Vel. (ft/s)	1.16	6.37	1.68
Max Chl Dpth (ft)	2.68	Hydr. Depth (ft)	0.18	1.30	0.50
Conv. Total (cfs)	2811.6	Conv. (cfs)	10.9	2746.2	54.6
Length Wtd. (ft)	347.57	Wetted Per. (ft)	5.54	36.48	7.20
Min Ch El (ft)	2725.04	Shear (lb/sq ft)	0.14	0.95	0.36
Alpha	1.12	Stream Power (lb/ft s)	400.00	0.00	0.00
Frctn Loss (ft)	5.13	Cum Volume (acre-ft)	2.91	6.22	1.78
C & E Loss (ft)	0.03	Cum SA (acres)	5.36	5.17	3.41

Plan: Default Scenario Reach F Reach F RS: 620 Profile: 1

E.G. Elev (ft)	2723.12	Element	Left OB	Channel	Right OB
Vel Head (ft)	1.05	Wt. n-Val.	0.045	0.035	0.045
W.S. Elev (ft)	2722.07	Reach Len. (ft)	695.14	695.14	695.14
Crit W.S. (ft)	2722.24	Flow Area (sq ft)	4.91	34.04	1.44
E.G. Slope (ft/ft)	0.019310	Area (sq ft)	4.91	34.04	1.44
Q Total (cfs)	305.70	Flow (cfs)	15.28	287.86	2.57
Top Width (ft)	34.12	Top Width (ft)	8.70	19.52	5.90
Vel Total (ft/s)	7.57	Avg. Vel. (ft/s)	3.11	8.46	1.78
Max Chl Dpth (ft)	2.61	Hydr. Depth (ft)	0.56	1.74	0.24
Conv. Total (cfs)	2199.9	Conv. (cfs)	109.9	2071.5	18.5
Length Wtd. (ft)	695.14	Wetted Per. (ft)	8.80	19.84	5.97
Min Ch El (ft)	2719.46	Shear (lb/sq ft)	0.67	2.07	0.29
Alpha	1.18	Stream Power (lb/ft s)	266.88	0.00	0.00
Frctn Loss (ft)	5.17	Cum Volume (acre-ft)	2.89	5.90	1.76
C & E Loss (ft)	0.04	Cum SA (acres)	5.30	4.95	3.36

Plan: Default Scenario Reach F Reach F RS: 619 Profile: 1

E.G. Elev (ft)	2711.22	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.95	Wt. n-Val.	0.045	0.030	
W.S. Elev (ft)	2710.27	Reach Len. (ft)	447.43	447.43	447.43
Crit W.S. (ft)	2710.51	Flow Area (sq ft)	5.71	37.25	
E.G. Slope (ft/ft)	0.015199	Area (sq ft)	5.71	37.25	
Q Total (cfs)	305.70	Flow (cfs)	9.26	296.44	
Top Width (ft)	48.68	Top Width (ft)	24.39	24.29	
Vel Total (ft/s)	7.12	Avg. Vel. (ft/s)	1.62	7.96	
Max Chl Dpth (ft)	2.71	Hydr. Depth (ft)	0.23	1.53	
Conv. Total (cfs)	2479.6	Conv. (cfs)	75.1	2404.5	
Length Wtd. (ft)	447.43	Wetted Per. (ft)	24.44	25.04	
Min Ch El (ft)	2707.56	Shear (lb/sq ft)	0.22	1.41	
Alpha	1.21	Stream Power (lb/ft s)	400.00	0.00	0.00
Frctn Loss (ft)	11.87	Cum Volume (acre-ft)	2.81	5.33	1.75
C & E Loss (ft)	0.03	Cum SA (acres)	5.04	4.60	3.31

Plan: Default Scenario Reach F Reach F RS: 618 Profile: 1

E.G. Elev (ft)	2705.24	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.98	Wt. n-Val.	0.045	0.030	0.045
W.S. Elev (ft)	2704.27	Reach Len. (ft)	247.71	247.71	247.71
Crit W.S. (ft)	2704.37	Flow Area (sq ft)	1.77	35.39	4.53
E.G. Slope (ft/ft)	0.011835	Area (sq ft)	1.77	35.39	4.53
Q Total (cfs)	305.70	Flow (cfs)	3.49	288.09	14.12
Top Width (ft)	28.42	Top Width (ft)	4.28	18.75	5.39
Vel Total (ft/s)	7.33	Avg. Vel. (ft/s)	1.97	8.14	3.12
Max Chl Dpth (ft)	2.48	Hydr. Depth (ft)	0.41	1.89	0.84
Conv. Total (cfs)	2810.0	Conv. (cfs)	32.0	2648.2	129.8
Length Wtd. (ft)	247.71	Wetted Per. (ft)	4.36	19.06	5.61
Min Ch El (ft)	2701.79	Shear (lb/sq ft)	0.30	1.37	0.60
Alpha	1.17	Stream Power (lb/ft s)	244.93	0.00	0.00
Frctn Loss (ft)	5.98	Cum Volume (acre-ft)	2.77	4.96	1.72
C & E Loss (ft)	0.00	Cum SA (acres)	4.89	4.38	3.28

Plan: Default Scenario Reach F Reach F RS: 617 Profile: 1

E.G. Elev (ft)	2702.18	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.78	Wt. n-Val.		0.035	0.045
W.S. Elev (ft)	2701.40	Reach Len. (ft)	223.43	223.43	223.43
Crit W.S. (ft)	2701.40	Flow Area (sq ft)		43.13	0.01
E.G. Slope (ft/ft)	0.016004	Area (sq ft)		43.13	0.01
Q Total (cfs)	305.70	Flow (cfs)		305.70	0.00
Top Width (ft)	28.07	Top Width (ft)		27.87	0.19
Vel Total (ft/s)	7.09	Avg. Vel. (ft/s)		7.09	0.38
Max Chl Dpth (ft)	2.33	Hydr. Depth (ft)		1.55	0.03
Conv. Total (cfs)	2416.5	Conv. (cfs)		2416.5	0.0
Length Wtd. (ft)	223.43	Wetted Per. (ft)		28.44	0.20
Min Ch El (ft)	2699.07	Shear (lb/sq ft)		1.51	0.03
Alpha	1.00	Stream Power (lb/ft s)	400.00	0.00	0.00
Frctn Loss (ft)	2.96	Cum Volume (acre-ft)	2.76	4.73	1.71
C & E Loss (ft)	0.01	Cum SA (acres)	4.88	4.25	3.26

Plan: Default Scenario Reach F Reach F RS: 616 Profile: 1

E.G. Elev (ft)	2699.18	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.77	Wt. n-Val.	0.045	0.030	0.045
W.S. Elev (ft)	2698.41	Reach Len. (ft)	471.70	471.70	471.70
Crit W.S. (ft)	2698.42	Flow Area (sq ft)	0.45	43.12	0.83
E.G. Slope (ft/ft)	0.011411	Area (sq ft)	0.45	43.12	0.83
Q Total (cfs)	305.70	Flow (cfs)	0.56	303.92	1.22
Top Width (ft)	32.93	Top Width (ft)	2.15	27.73	3.05
Vel Total (ft/s)	6.88	Avg. Vel. (ft/s)	1.24	7.05	1.47
Max Chl Dpth (ft)	2.41	Hydr. Depth (ft)	0.21	1.56	0.27
Conv. Total (cfs)	2861.8	Conv. (cfs)	5.2	2845.2	11.4
Length Wtd. (ft)	471.70	Wetted Per. (ft)	2.18	28.05	3.10
Min Ch El (ft)	2696.00	Shear (lb/sq ft)	0.15	1.10	0.19
Alpha	1.04	Stream Power (lb/ft s)	313.98	0.00	0.00
Frctn Loss (ft)	3.00	Cum Volume (acre-ft)	2.76	4.51	1.71
C & E Loss (ft)	0.00	Cum SA (acres)	4.87	4.11	3.26

Plan: Default Scenario Reach F Reach F RS: 615 Profile: 1

E.G. Elev (ft)	2691.71	Element	Left OB	Channel	Right OB
Vel Head (ft)	1.23	Wt. n-Val.	0.045	0.030	
W.S. Elev (ft)	2690.47	Reach Len. (ft)	347.57	347.57	347.57
Crit W.S. (ft)	2690.83	Flow Area (sq ft)	0.12	34.26	
E.G. Slope (ft/ft)	0.023109	Area (sq ft)	0.12	34.26	
Q Total (cfs)	305.70	Flow (cfs)	0.13	305.57	
Top Width (ft)	27.24	Top Width (ft)	1.10	26.14	
Vel Total (ft/s)	8.89	Avg. Vel. (ft/s)	1.12	8.92	
Max Chl Dpth (ft)	2.25	Hydr. Depth (ft)	0.11	1.31	
Conv. Total (cfs)	2011.0	Conv. (cfs)	0.9	2010.1	
Length Wtd. (ft)	347.57	Wetted Per. (ft)	1.12	26.57	
Min Ch El (ft)	2688.22	Shear (lb/sq ft)	0.15	1.86	
Alpha	1.01	Stream Power (lb/ft s)	400.00	0.00	0.00
Frctn Loss (ft)	7.43	Cum Volume (acre-ft)	2.76	4.09	1.70
C & E Loss (ft)	0.05	Cum SA (acres)	4.85	3.81	3.24

Plan: Default Scenario Reach F Reach F RS: 614 Profile: 1

E.G. Elev (ft)	2686.36	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.37	Wt. n-Val.	0.045	0.035	0.060
W.S. Elev (ft)	2685.98	Reach Len. (ft)	347.57	347.57	347.57
Crit W.S. (ft)	2686.06	Flow Area (sq ft)	64.84	23.20	7.29
E.G. Slope (ft/ft)	0.010118	Area (sq ft)	64.84	23.20	7.29
Q Total (cfs)	305.70	Flow (cfs)	138.95	152.98	13.77
Top Width (ft)	150.41	Top Width (ft)	127.48	11.99	10.94
Vel Total (ft/s)	3.21	Avg. Vel. (ft/s)	2.14	6.59	1.89
Max Chl Dpth (ft)	2.36	Hydr. Depth (ft)	0.51	1.93	0.67
Conv. Total (cfs)	3039.1	Conv. (cfs)	1381.3	1520.9	136.9
Length Wtd. (ft)	347.57	Wetted Per. (ft)	127.61	12.09	11.04
Min Ch El (ft)	2683.62	Shear (lb/sq ft)	0.32	1.21	0.42
Alpha	2.33	Stream Power (lb/ft s)	400.00	0.00	0.00
Frctn Loss (ft)	5.09	Cum Volume (acre-ft)	2.50	3.86	1.67
C & E Loss (ft)	0.26	Cum SA (acres)	4.34	3.66	3.20

Plan: Default Scenario Reach F Reach F RS: 613 Profile: 1

E.G. Elev (ft)	2680.52	Element	Left OB	Channel	Right OB
Vel Head (ft)	1.19	Wt. n-Val.		0.035	
W.S. Elev (ft)	2679.34	Reach Len. (ft)	347.57	347.57	347.57
Crit W.S. (ft)	2679.72	Flow Area (sq ft)		34.96	
E.G. Slope (ft/ft)	0.031747	Area (sq ft)		34.96	
Q Total (cfs)	305.70	Flow (cfs)		305.70	
Top Width (ft)	27.64	Top Width (ft)		27.64	
Vel Total (ft/s)	8.74	Avg. Vel. (ft/s)		8.74	
Max Chl Dpth (ft)	2.23	Hydr. Depth (ft)		1.27	
Conv. Total (cfs)	1715.7	Conv. (cfs)		1715.7	
Length Wtd. (ft)	347.57	Wetted Per. (ft)		28.13	
Min Ch El (ft)	2677.11	Shear (lb/sq ft)		2.46	
Alpha	1.00	Stream Power (lb/ft s)	400.00	0.00	0.00
Frctn Loss (ft)	5.75	Cum Volume (acre-ft)	2.24	3.63	1.64
C & E Loss (ft)	0.08	Cum SA (acres)	3.83	3.50	3.15

Plan: Default Scenario Reach F Reach F RS: 612 Profile: 1

E.G. Elev (ft)	2675.52	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.09	Wt. n-Val.	0.045	0.035	0.060
W.S. Elev (ft)	2675.43	Reach Len. (ft)	347.57	347.57	347.57
Crit W.S. (ft)	2675.13	Flow Area (sq ft)	22.07	21.03	89.40
E.G. Slope (ft/ft)	0.010801	Area (sq ft)	22.07	21.03	89.40
Q Total (cfs)	305.70	Flow (cfs)	32.19	66.18	207.34
Top Width (ft)	219.65	Top Width (ft)	79.66	34.85	105.14
Vel Total (ft/s)	2.31	Avg. Vel. (ft/s)	1.46	3.15	2.32
Max Chl Dpth (ft)	1.35	Hydr. Depth (ft)	0.28	0.60	0.85
Conv. Total (cfs)	2941.5	Conv. (cfs)	309.7	636.8	1995.0
Length Wtd. (ft)	347.57	Wetted Per. (ft)	79.68	34.91	105.36
Min Ch El (ft)	2674.67	Shear (lb/sq ft)	0.19	0.41	0.57
Alpha	1.13	Stream Power (lb/ft s)	400.00	0.00	0.00
Frctn Loss (ft)	5.38	Cum Volume (acre-ft)	2.15	3.41	1.29
C & E Loss (ft)	0.02	Cum SA (acres)	3.51	3.26	2.73

Plan: Default Scenario Reach F Reach F RS: 611 Profile: 1

E.G. Elev (ft)	2670.13	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.25	Wt. n-Val.	0.060	0.045	0.060
W.S. Elev (ft)	2669.88	Reach Len. (ft)	347.57	347.57	347.57
Crit W.S. (ft)	2669.85	Flow Area (sq ft)	1.11	67.86	13.46
E.G. Slope (ft/ft)	0.023999	Area (sq ft)	1.11	67.86	13.46
Q Total (cfs)	305.70	Flow (cfs)	1.62	281.24	22.84
Top Width (ft)	142.74	Top Width (ft)	4.67	92.39	45.68
Vel Total (ft/s)	3.71	Avg. Vel. (ft/s)	1.46	4.14	1.70
Max Chl Dpth (ft)	1.37	Hydr. Depth (ft)	0.24	0.73	0.29
Conv. Total (cfs)	1973.3	Conv. (cfs)	10.5	1815.4	147.5
Length Wtd. (ft)	347.57	Wetted Per. (ft)	4.69	93.07	45.71
Min Ch El (ft)	2668.51	Shear (lb/sq ft)	0.35	1.09	0.44
Alpha	1.17	Stream Power (lb/ft s)	400.00	0.00	0.00
Frctn Loss (ft)	4.63	Cum Volume (acre-ft)	2.06	3.05	0.88
C & E Loss (ft)	0.02	Cum SA (acres)	3.18	2.75	2.13

Plan: Default Scenario Reach F Reach F RS: 610 Profile: 1

E.G. Elev (ft)	2665.49	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.42	Wt. n-Val.	0.045	0.030	0.060
W.S. Elev (ft)	2665.06	Reach Len. (ft)	347.57	347.57	347.57
Crit W.S. (ft)	2665.06	Flow Area (sq ft)	6.62	47.77	22.59
E.G. Slope (ft/ft)	0.008456	Area (sq ft)	6.62	47.77	22.59
Q Total (cfs)	305.70	Flow (cfs)	6.69	266.42	32.59
Top Width (ft)	114.56	Top Width (ft)	34.67	35.11	44.78
Vel Total (ft/s)	3.97	Avg. Vel. (ft/s)	1.01	5.58	1.44
Max Chl Dpth (ft)	1.90	Hydr. Depth (ft)	0.19	1.36	0.50
Conv. Total (cfs)	3324.4	Conv. (cfs)	72.7	2897.3	354.4
Length Wtd. (ft)	347.57	Wetted Per. (ft)	34.70	35.26	44.81
Min Ch El (ft)	2663.16	Shear (lb/sq ft)	0.10	0.72	0.27
Alpha	1.73	Stream Power (lb/ft s)	309.82	0.00	0.00
Frcn Loss (ft)	3.29	Cum Volume (acre-ft)	2.03	2.59	0.73
C & E Loss (ft)	0.01	Cum SA (acres)	3.02	2.24	1.77

Plan: Default Scenario Reach F Reach F RS: 609 Profile: 1

E.G. Elev (ft)	2660.30	Element	Left OB	Channel	Right OB
Vel Head (ft)	1.10	Wt. n-Val.	0.045	0.030	0.060
W.S. Elev (ft)	2659.20	Reach Len. (ft)	347.57	347.57	347.57
Crit W.S. (ft)	2659.53	Flow Area (sq ft)	0.98	34.11	5.78
E.G. Slope (ft/ft)	0.031607	Area (sq ft)	0.98	34.11	5.78
Q Total (cfs)	305.70	Flow (cfs)	3.36	293.05	9.29
Top Width (ft)	63.45	Top Width (ft)	1.92	35.28	26.25
Vel Total (ft/s)	7.48	Avg. Vel. (ft/s)	3.43	8.59	1.61
Max Chl Dpth (ft)	1.80	Hydr. Depth (ft)	0.51	0.97	0.22
Conv. Total (cfs)	1719.5	Conv. (cfs)	18.9	1648.3	52.2
Length Wtd. (ft)	347.57	Wetted Per. (ft)	2.19	35.39	26.27
Min Ch El (ft)	2657.40	Shear (lb/sq ft)	0.88	1.90	0.43
Alpha	1.27	Stream Power (lb/ft s)	361.18	0.00	0.00
Frcn Loss (ft)	5.11	Cum Volume (acre-ft)	2.00	2.27	0.62
C & E Loss (ft)	0.07	Cum SA (acres)	2.88	1.96	1.49

Plan: Default Scenario Reach F Reach F RS: 608 Profile: 1

E.G. Elev (ft)	2655.05	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.40	Wt. n-Val.	0.060	0.030	0.045
W.S. Elev (ft)	2654.65	Reach Len. (ft)	347.57	347.57	347.57
Crit W.S. (ft)	2654.54	Flow Area (sq ft)	28.70	18.97	25.93
E.G. Slope (ft/ft)	0.015096	Area (sq ft)	28.70	18.97	25.93
Q Total (cfs)	305.70	Flow (cfs)	111.26	127.72	66.72
Top Width (ft)	87.24	Top Width (ft)	19.60	16.30	51.34
Vel Total (ft/s)	4.15	Avg. Vel. (ft/s)	3.88	6.73	2.57
Max Chl Dpth (ft)	2.23	Hydr. Depth (ft)	1.46	1.16	0.51
Conv. Total (cfs)	2488.1	Conv. (cfs)	905.5	1039.5	543.0
Length Wtd. (ft)	347.57	Wetted Per. (ft)	19.96	16.31	51.46
Min Ch El (ft)	2653.39	Shear (lb/sq ft)	1.36	1.10	0.47
Alpha	1.50	Stream Power (lb/ft s)	400.00	0.00	0.00
Frcn Loss (ft)	4.35	Cum Volume (acre-ft)	1.88	2.05	0.49
C & E Loss (ft)	0.01	Cum SA (acres)	2.79	1.75	1.18

Plan: Default Scenario Reach F Reach F RS: 607 Profile: 1

E.G. Elev (ft)	2650.69	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.35	Wt. n-Val.	0.045	0.035	0.045
W.S. Elev (ft)	2650.34	Reach Len. (ft)	347.57	347.57	347.57
Crit W.S. (ft)	2650.20	Flow Area (sq ft)	27.27	42.81	1.94
E.G. Slope (ft/ft)	0.010555	Area (sq ft)	27.27	42.81	1.94
Q Total (cfs)	305.70	Flow (cfs)	76.10	226.59	3.01
Top Width (ft)	74.56	Top Width (ft)	36.47	31.82	6.27
Vel Total (ft/s)	4.24	Avg. Vel. (ft/s)	2.79	5.29	1.55
Max Chl Dpth (ft)	2.14	Hydr. Depth (ft)	0.75	1.35	0.31
Conv. Total (cfs)	2975.6	Conv. (cfs)	740.7	2205.5	29.3
Length Wtd. (ft)	347.57	Wetted Per. (ft)	36.54	32.02	6.30
Min Ch El (ft)	2648.20	Shear (lb/sq ft)	0.49	0.88	0.20
Alpha	1.26	Stream Power (lb/ft s)	400.00	0.00	0.00
Frctn Loss (ft)	4.75	Cum Volume (acre-ft)	1.66	1.81	0.38
C & E Loss (ft)	0.03	Cum SA (acres)	2.57	1.56	0.95

Plan: Default Scenario Reach F Reach F RS: 606 Profile: 1

E.G. Elev (ft)	2645.91	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.24	Wt. n-Val.	0.060	0.030	0.045
W.S. Elev (ft)	2645.66	Reach Len. (ft)	347.57	347.57	347.57
Crit W.S. (ft)	2645.54	Flow Area (sq ft)	76.05	11.96	3.56
E.G. Slope (ft/ft)	0.018343	Area (sq ft)	76.05	11.96	3.56
Q Total (cfs)	305.70	Flow (cfs)	223.53	73.93	8.23
Top Width (ft)	115.14	Top Width (ft)	92.10	13.53	9.51
Vel Total (ft/s)	3.34	Avg. Vel. (ft/s)	2.94	6.18	2.32
Max Chl Dpth (ft)	1.92	Hydr. Depth (ft)	0.83	0.88	0.37
Conv. Total (cfs)	2257.1	Conv. (cfs)	1650.5	545.9	60.8
Length Wtd. (ft)	347.57	Wetted Per. (ft)	92.71	13.53	9.55
Min Ch El (ft)	2644.72	Shear (lb/sq ft)	0.94	1.01	0.43
Alpha	1.41	Stream Power (lb/ft s)	400.00	0.00	0.00
Frctn Loss (ft)	4.46	Cum Volume (acre-ft)	1.25	1.59	0.36
C & E Loss (ft)	0.00	Cum SA (acres)	2.05	1.38	0.88

Plan: Default Scenario Reach F Reach F RS: 605 Profile: 1

E.G. Elev (ft)	2641.43	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.28	Wt. n-Val.	0.060	0.030	0.045
W.S. Elev (ft)	2641.15	Reach Len. (ft)	347.57	347.57	347.57
Crit W.S. (ft)	2641.15	Flow Area (sq ft)	82.98	32.26	0.50
E.G. Slope (ft/ft)	0.009489	Area (sq ft)	82.98	32.26	0.50
Q Total (cfs)	305.70	Flow (cfs)	129.03	176.10	0.57
Top Width (ft)	189.20	Top Width (ft)	160.15	26.71	2.34
Vel Total (ft/s)	2.64	Avg. Vel. (ft/s)	1.55	5.46	1.14
Max Chl Dpth (ft)	1.59	Hydr. Depth (ft)	0.52	1.21	0.21
Conv. Total (cfs)	3138.2	Conv. (cfs)	1324.6	1807.8	5.9
Length Wtd. (ft)	347.57	Wetted Per. (ft)	160.41	26.81	2.38
Min Ch El (ft)	2639.56	Shear (lb/sq ft)	0.31	0.71	0.13
Alpha	2.61	Stream Power (lb/ft s)	400.00	0.00	0.00
Frctn Loss (ft)	4.11	Cum Volume (acre-ft)	0.61	1.41	0.34
C & E Loss (ft)	0.01	Cum SA (acres)	1.05	1.22	0.84

Plan: Default Scenario Reach F Reach F RS: 604 Profile: 1

E.G. Elev (ft)	2636.12	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.63	Wt. n-Val.	0.060	0.035	0.045
W.S. Elev (ft)	2635.49	Reach Len. (ft)	354.30	354.30	354.30
Crit W.S. (ft)	2635.65	Flow Area (sq ft)	3.33	42.86	7.14
E.G. Slope (ft/ft)	0.028651	Area (sq ft)	3.33	42.86	7.14
Q Total (cfs)	305.70	Flow (cfs)	7.04	282.48	16.18
Top Width (ft)	85.46	Top Width (ft)	9.18	48.61	27.67
Vel Total (ft/s)	5.73	Avg. Vel. (ft/s)	2.11	6.59	2.27
Max Chl Dpth (ft)	1.61	Hydr. Depth (ft)	0.36	0.88	0.26
Conv. Total (cfs)	1806.0	Conv. (cfs)	41.6	1668.8	95.6
Length Wtd. (ft)	354.30	Wetted Per. (ft)	9.28	48.79	27.68
Min Ch El (ft)	2633.88	Shear (lb/sq ft)	0.64	1.57	0.46
Alpha	1.23	Stream Power (lb/ft s)	400.00	0.00	0.00
Frctn Loss (ft)	5.29	Cum Volume (acre-ft)	0.27	1.11	0.31
C & E Loss (ft)	0.03	Cum SA (acres)	0.37	0.92	0.72

Plan: Default Scenario Reach F Reach F RS: 603 Profile: 1

E.G. Elev (ft)	2629.20	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.40	Wt. n-Val.	0.045	0.035	0.045
W.S. Elev (ft)	2628.80	Reach Len. (ft)	340.84	340.84	340.84
Crit W.S. (ft)	2628.79	Flow Area (sq ft)	9.21	34.08	23.69
E.G. Slope (ft/ft)	0.016821	Area (sq ft)	9.21	34.08	23.69
Q Total (cfs)	305.70	Flow (cfs)	34.18	198.39	73.13
Top Width (ft)	80.96	Top Width (ft)	11.18	31.11	38.67
Vel Total (ft/s)	4.56	Avg. Vel. (ft/s)	3.71	5.82	3.09
Max Chl Dpth (ft)	2.27	Hydr. Depth (ft)	0.82	1.10	0.61
Conv. Total (cfs)	2357.1	Conv. (cfs)	263.5	1529.7	563.9
Length Wtd. (ft)	340.84	Wetted Per. (ft)	11.41	31.36	38.72
Min Ch El (ft)	2626.53	Shear (lb/sq ft)	0.85	1.14	0.64
Alpha	1.24	Stream Power (lb/ft s)	368.20	0.00	0.00
Frctn Loss (ft)	4.05	Cum Volume (acre-ft)	0.22	0.80	0.19
C & E Loss (ft)	0.03	Cum SA (acres)	0.29	0.59	0.45

Plan: Default Scenario Reach F Reach F RS: 602 Profile: 1

E.G. Elev (ft)	2625.12	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.68	Wt. n-Val.	0.045	0.030	0.030
W.S. Elev (ft)	2624.44	Reach Len. (ft)	347.57	347.57	347.57
Crit W.S. (ft)	2624.44	Flow Area (sq ft)	19.96	29.44	5.73
E.G. Slope (ft/ft)	0.008836	Area (sq ft)	19.96	29.44	5.73
Q Total (cfs)	305.70	Flow (cfs)	60.50	220.36	24.84
Top Width (ft)	41.07	Top Width (ft)	20.59	14.33	6.14
Vel Total (ft/s)	5.55	Avg. Vel. (ft/s)	3.03	7.48	4.34
Max Chl Dpth (ft)	2.53	Hydr. Depth (ft)	0.97	2.05	0.93
Conv. Total (cfs)	3252.1	Conv. (cfs)	643.6	2344.2	264.3
Length Wtd. (ft)	347.57	Wetted Per. (ft)	20.67	14.45	6.38
Min Ch El (ft)	2621.91	Shear (lb/sq ft)	0.53	1.12	0.50
Alpha	1.42	Stream Power (lb/ft s)	400.00	0.00	0.00
Frctn Loss (ft)	2.62	Cum Volume (acre-ft)	0.10	0.55	0.07
C & E Loss (ft)	0.08	Cum SA (acres)	0.16	0.42	0.27

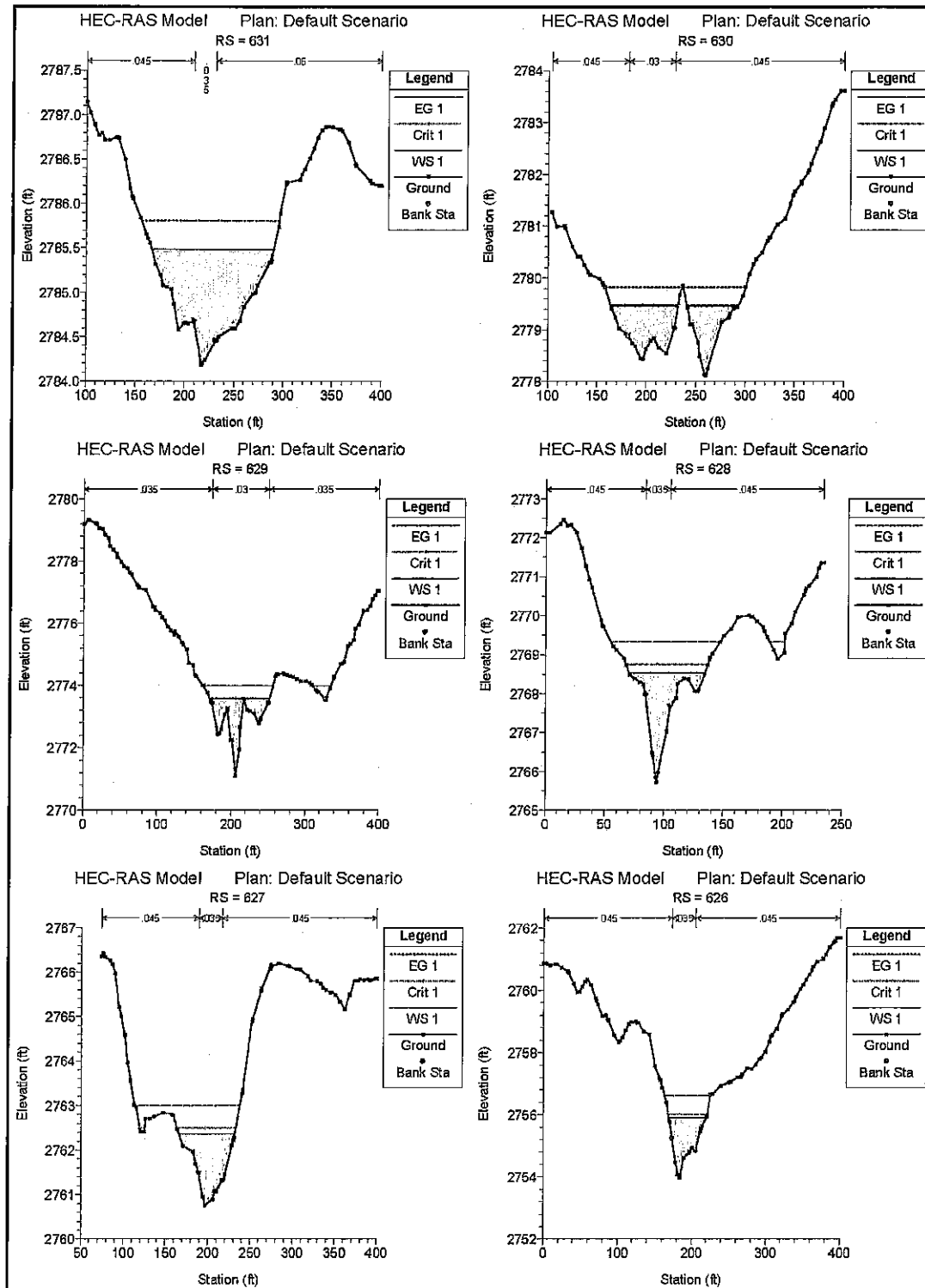
Plan: Default Scenario Reach F Reach F RS: 601 Profile: 1

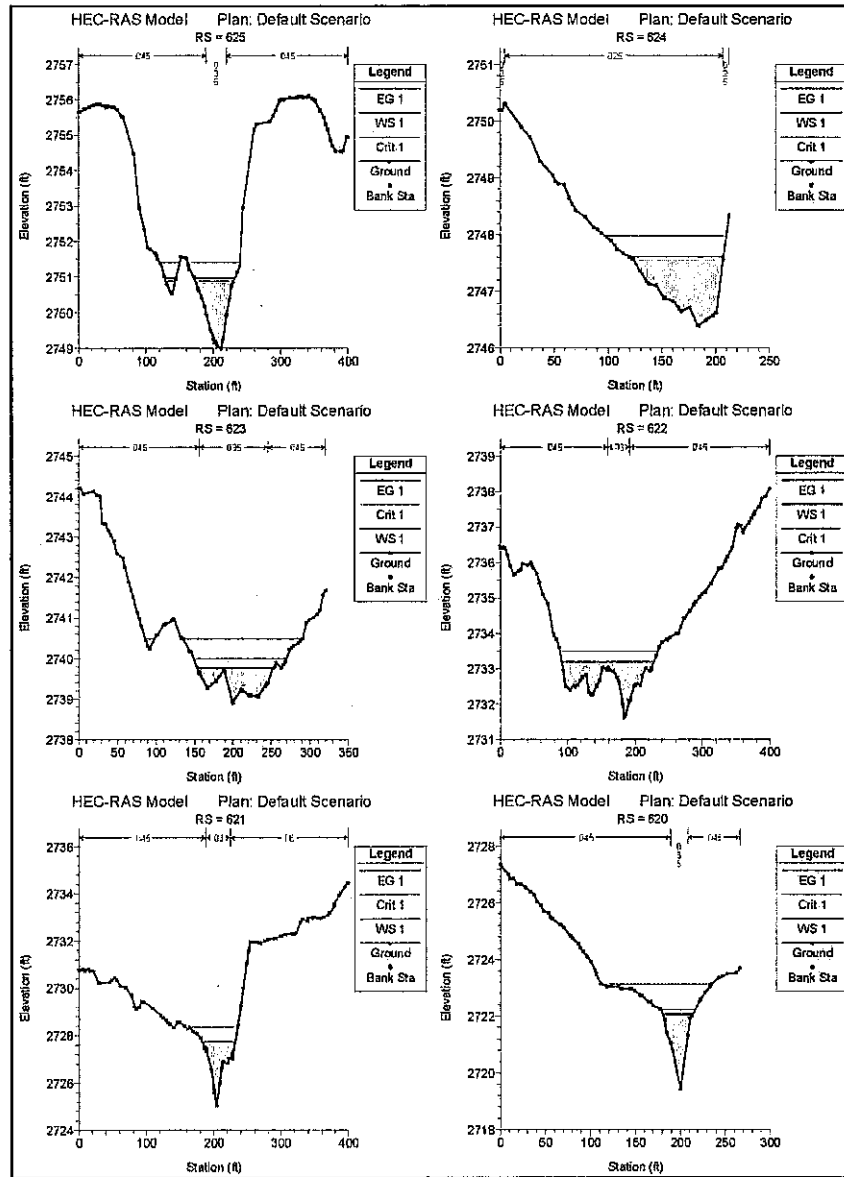
E.G. Elev (ft)	2620.77	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.98	Wt. n-Val.	0.045	0.030	0.045
W.S. Elev (ft)	2619.79	Reach Len. (ft)	347.57	347.57	347.57
Crit W.S. (ft)	2620.17	Flow Area (sq ft)	2.74	35.62	6.39
E.G. Slope (ft/ft)	0.018729	Area (sq ft)	2.74	35.62	6.39
Q Total (cfs)	305.70	Flow (cfs)	5.11	289.68	10.90
Top Width (ft)	68.10	Top Width (ft)	10.27	26.92	30.91
Vel Total (ft/s)	6.83	Avg. Vel. (ft/s)	1.87	8.13	1.71
Max Chl Dpth (ft)	1.78	Hydr. Depth (ft)	0.27	1.32	0.21
Conv. Total (cfs)	2233.8	Conv. (cfs)	37.4	2116.7	79.7
Length Wtd. (ft)	347.57	Wetted Per. (ft)	10.33	27.11	30.96
Min Ch El (ft)	2618.01	Shear (lb/sq ft)	0.31	1.54	0.24
Alpha	1.35	Stream Power (lb/ft s)	400.00	0.00	0.00
Frctn Loss (ft)	4.32	Cum Volume (acre-ft)	0.01	0.29	0.03
C & E Loss (ft)	0.03	Cum SA (acres)	0.04	0.25	0.12

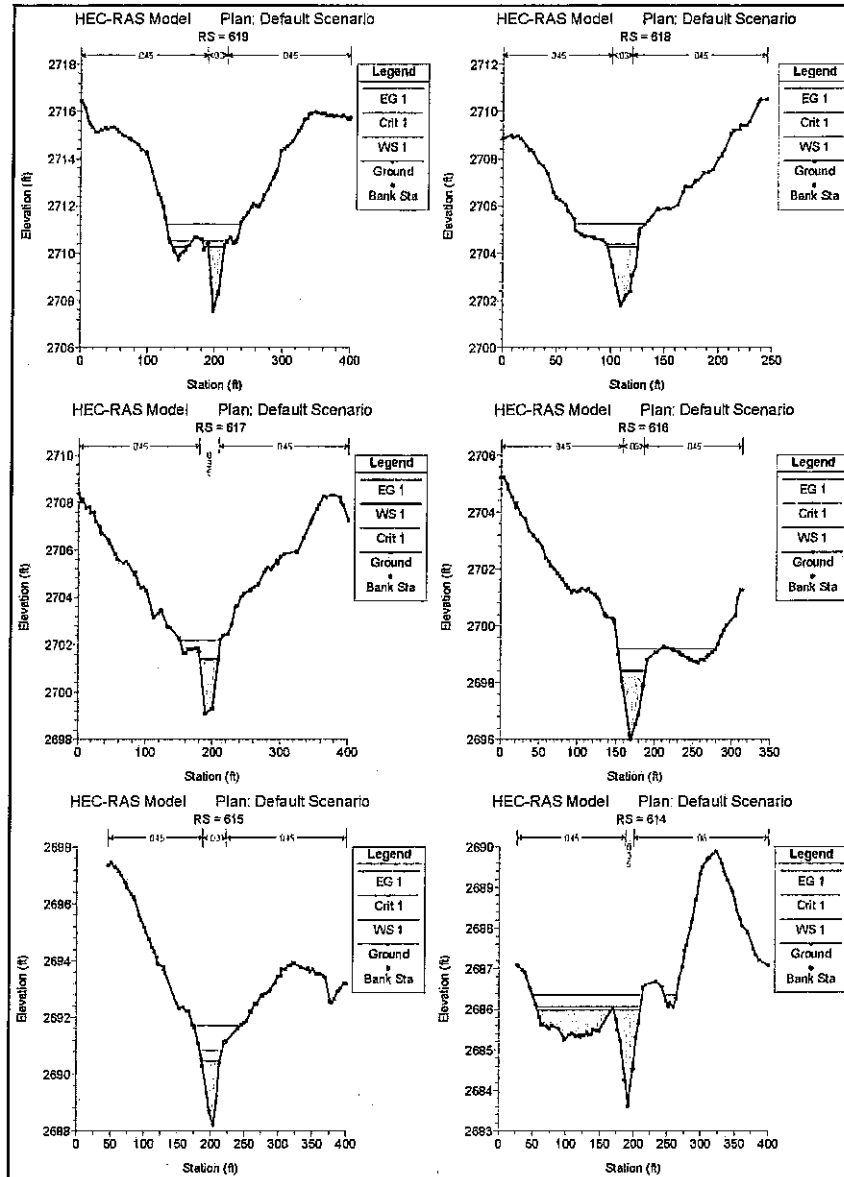
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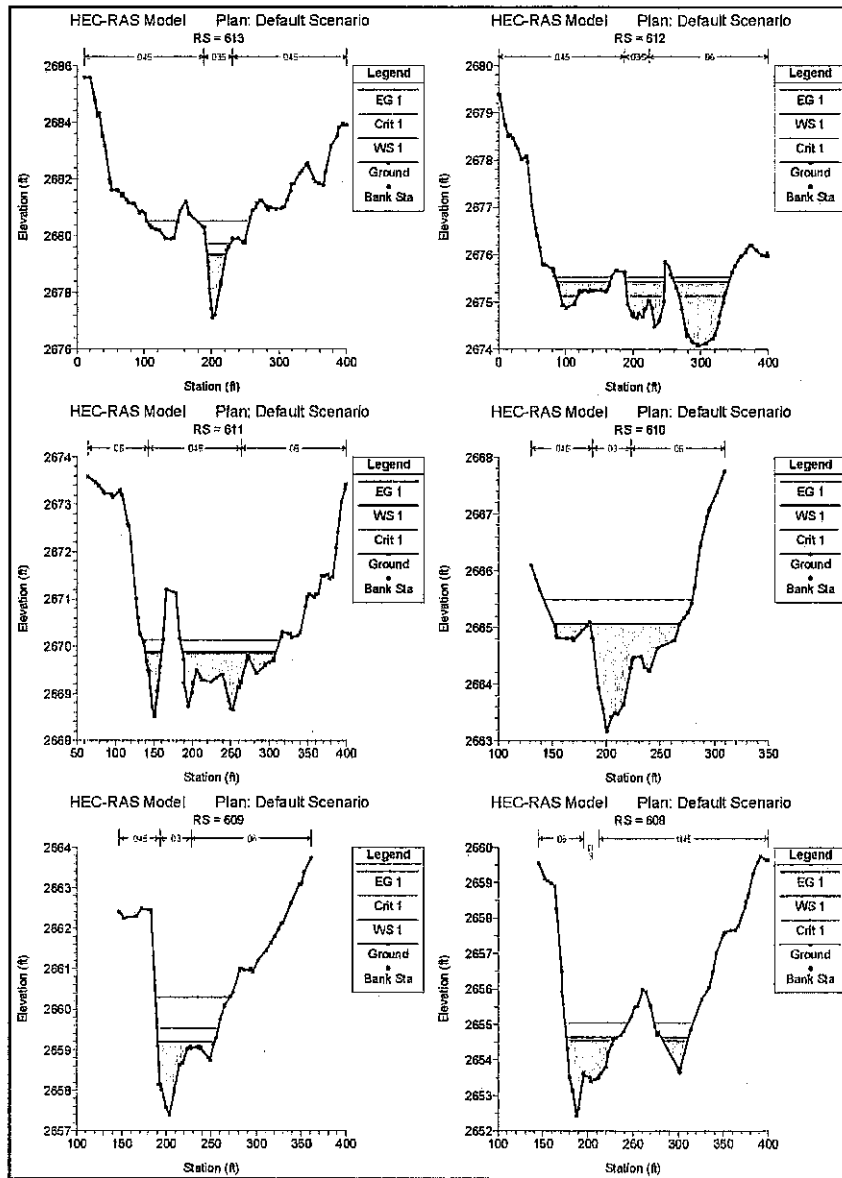
E.G. Elev (ft)	2612.02	Element	Left OB	Channel	Right OB
Vel Head (ft)	1.03	Wt. n-Val.		0.035	0.045
W.S. Elev (ft)	2610.99	Reach Len. (ft)			
Crit W.S. (ft)	2611.26	Flow Area (sq ft)		37.49	0.01
E.G. Slope (ft/ft)	0.035523	Area (sq ft)		37.49	0.01
Q Total (cfs)	305.70	Flow (cfs)		305.70	0.00
Top Width (ft)	36.50	Top Width (ft)		36.18	0.31
Vel Total (ft/s)	8.15	Avg. Vel. (ft/s)		8.15	0.56
Max Chl Dpth (ft)	1.43	Hydr. Depth (ft)		1.04	0.03
Conv. Total (cfs)	1622.0	Conv. (cfs)		1621.9	0.0
Length Wtd. (ft)		Wetted Per. (ft)		36.44	0.32
Min Ch El (ft)	2609.56	Shear (lb/sq ft)		2.28	0.06
Alpha	1.00	Stream Power (lb/ft s)	400.00	0.00	0.00
Frctn Loss (ft)	8.74	Cum Volume (acre-ft)			
C & E Loss (ft)	0.01	Cum SA (acres)			

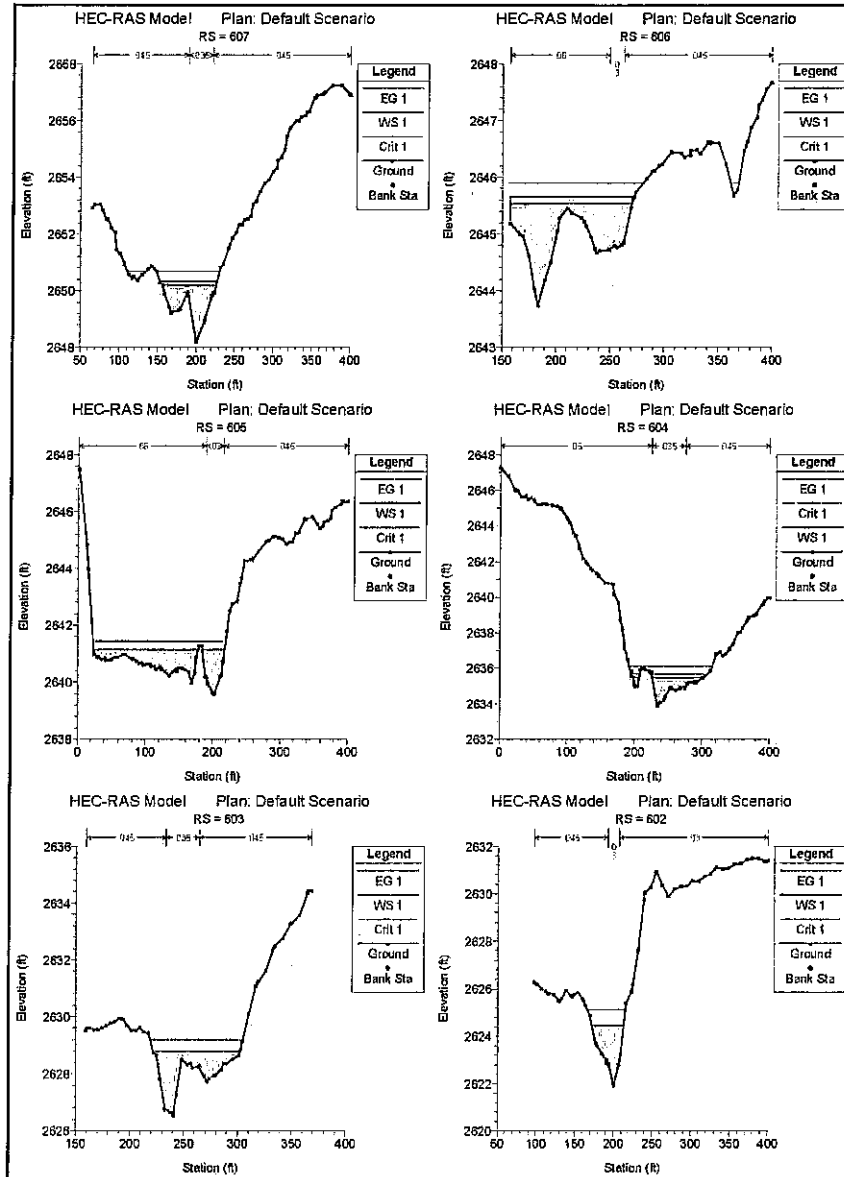
CROSS SECTION PLOTS

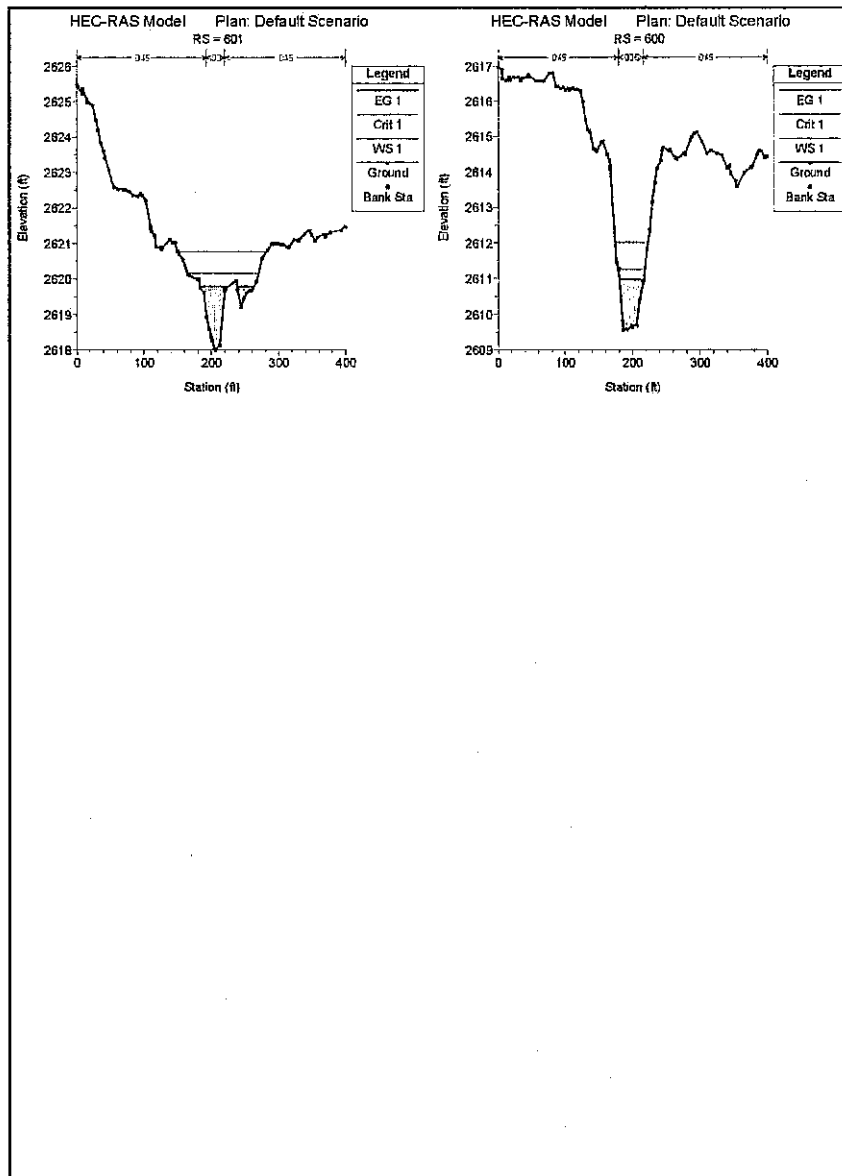




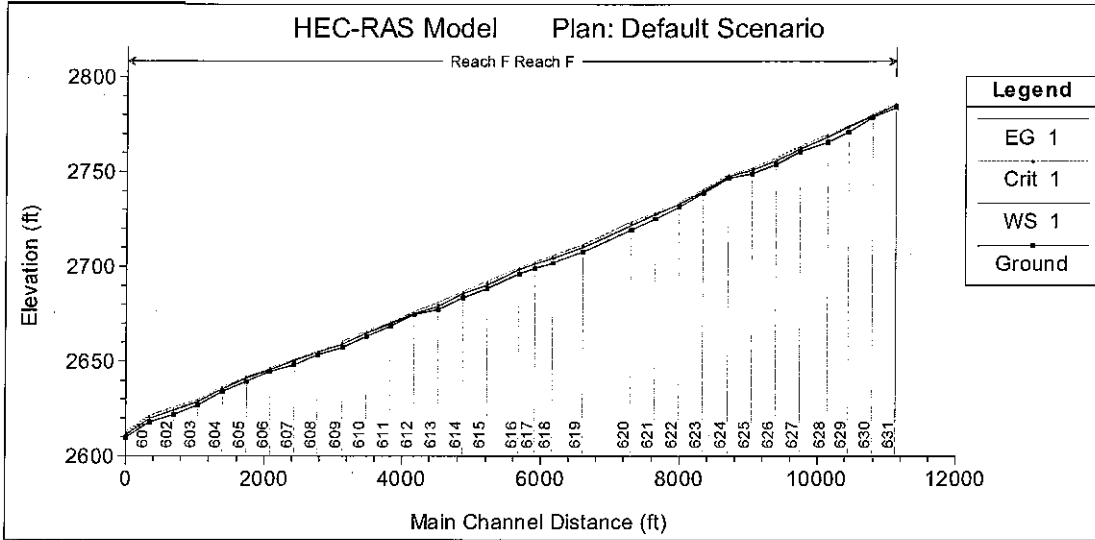








PROFILE PLOT



STANDARD TABLE 1

HEC-RAS Plan: Default Scenario River: Reach F Reach: Reach F Profile: 1

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	WS Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Reach F	831	1	305.70	2784.19	2785.49	2785.49	2785.81	0.018884	5.98	85.80	124.17	0.99
Reach F	830	1	305.70	2778.49	2779.49	2779.49	2779.82	0.017612	5.57	72.77	119.64	1.11
Reach F	829	1	305.70	2771.10	2773.57	2773.50	2773.95	0.016969	5.20	59.05	91.69	1.05
Reach F	828	1	305.70	2765.79	2768.53	2768.75	2768.33	0.014509	7.45	50.87	64.21	0.98
Reach F	827	1	305.70	2760.77	2762.36	2762.50	2763.01	0.017886	6.88	54.96	66.02	1.05
Reach F	826	1	305.70	2753.99	2755.91	2756.02	2756.61	0.018885	6.95	48.14	50.98	1.07
Reach F	825	1	305.70	2748.00	2750.97	2750.89	2751.42	0.009453	5.68	68.54	77.15	0.79
Reach F	824	1	305.70	2748.39	2747.82	2747.62	2747.98	0.010252	4.92	63.43	89.77	1.00
Reach F	823	1	305.70	2738.91	2739.77	2740.00	2740.49	0.068955	8.88	45.57	99.88	1.72
Reach F	822	1	305.70	2731.63	2733.21	2733.19	2733.49	0.017551	5.51	82.49	137.73	1.11
Reach F	821	1	305.70	2726.04	2727.72	2727.73	2728.34	0.011622	6.37	51.45	48.78	0.99
Reach F	820	1	305.70	2719.46	2722.07	2722.34	2723.12	0.016310	6.46	40.40	34.12	1.13
Reach F	819	1	305.70	2707.55	2710.27	2710.51	2711.22	0.015199	7.96	42.56	48.69	1.13
Reach F	818	1	305.70	2701.79	2704.27	2704.37	2705.24	0.011935	9.14	41.89	28.42	1.04
Reach F	817	1	305.70	2699.07	2701.40	2701.40	2702.18	0.016004	7.09	43.13	28.07	1.00
Reach F	816	1	305.70	2698.00	2698.41	2698.42	2699.19	0.011411	7.05	44.40	32.93	1.00
Reach F	815	1	305.70	2698.22	2699.47	2699.93	2691.71	0.023109	8.92	34.99	27.24	1.37
Reach F	814	1	305.70	2699.82	2699.99	2699.08	2698.38	0.010118	8.59	95.93	150.41	0.84
Reach F	813	1	305.70	2677.11	2679.34	2679.72	2680.52	0.031747	8.74	34.89	27.64	1.37
Reach F	812	1	305.70	2674.87	2675.43	2676.13	2675.52	0.010801	3.15	132.50	219.65	0.71
Reach F	811	1	305.70	2669.51	2669.98	2669.95	2670.13	0.029999	4.14	82.43	142.74	0.85
Reach F	810	1	305.70	2663.16	2665.08	2665.08	2665.48	0.008458	5.58	76.98	114.58	0.84
Reach F	809	1	305.70	2657.40	2659.20	2659.53	2660.30	0.031807	8.59	40.87	83.45	1.54
Reach F	808	1	305.70	2653.39	2654.95	2654.54	2655.05	0.015098	8.73	73.80	87.24	1.10
Reach F	807	1	305.70	2648.20	2650.34	2650.20	2650.89	0.010555	5.29	72.02	74.55	0.80
Reach F	806	1	305.70	2644.72	2645.66	2645.54	2645.91	0.018343	6.19	91.57	115.14	1.18
Reach F	805	1	305.70	2639.50	2641.15	2641.15	2641.43	0.009489	5.46	115.75	189.20	0.88
Reach F	804	1	305.70	2633.88	2635.48	2635.65	2636.12	0.028651	5.59	53.33	85.48	1.24
Reach F	803	1	305.70	2626.53	2628.80	2628.78	2628.20	0.018821	5.82	66.98	80.86	0.88
Reach F	802	1	305.70	2621.81	2624.44	2624.44	2625.12	0.008636	7.48	55.13	41.07	0.82
Reach F	801	1	305.70	2618.01	2619.78	2620.17	2620.77	0.018729	8.13	44.75	68.16	1.25
Reach F	800	1	305.70	2609.58	2610.99	2611.26	2612.02	0.035523	8.15	37.50	26.50	1.41

STANDARD TABLE 2

HEC-RAS Plan: Default Scenario River: Reach F Reach: Reach F Profile: 1

Reach	River Sta	Profile	E.O. Elev. (ft)	W.S. Elev (ft)	Vel Head (ft)	Frctn Loss (ft)	C & E Loss (ft)	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Top Width (ft)
Reach F	631	1	2785.81	2785.48	0.32			69.99	149.90	85.81	124.17
Reach F	630	1	2779.82	2779.48	0.36	5.99	0.00	14.28	203.76	87.67	119.84
Reach F	629	1	2773.99	2773.57	0.42	5.82	0.01	0.14	305.48	0.09	81.86
Reach F	628	1	2769.33	2768.53	0.80	4.63	0.04	3.67	281.47	20.56	64.21
Reach F	627	1	2763.01	2762.36	0.64	6.28	0.05	20.22	259.18	26.29	66.02
Reach F	626	1	2758.81	2755.91	0.71	6.39	0.01	3.09	284.97	17.64	50.98
Reach F	625	1	2751.42	2750.97	0.45	3.42	0.03	21.77	274.08	9.85	77.15
Reach F	624	1	2747.88	2747.62	0.38	4.64	0.01		305.69	0.01	88.77
Reach F	623	1	2740.49	2739.77	0.72	7.44	0.04	0.37	301.62	3.71	99.88
Reach F	622	1	2733.49	2733.21	0.28	4.82	0.03	121.51	136.33	47.86	137.73
Reach F	621	1	2728.34	2727.72	0.62	5.13	0.03	1.18	298.58	5.94	48.78
Reach F	620	1	2723.12	2722.07	1.05	5.17	0.04	15.28	267.86	2.57	34.12
Reach F	619	1	2711.22	2710.27	0.95	11.87	0.03	8.26	296.44		48.88
Reach F	618	1	2705.24	2704.27	0.98	5.98	0.00	3.49	288.09	14.12	28.42
Reach F	617	1	2702.18	2701.40	0.78	2.98	0.01		305.70	0.00	28.07
Reach F	616	1	2699.18	2698.41	0.77	3.00	0.00	0.56	303.92	1.22	32.83
Reach F	615	1	2691.71	2690.47	1.23	7.43	0.05	0.13	305.57		27.24
Reach F	614	1	2686.36	2685.98	0.37	5.09	0.26	138.95	152.98	13.77	150.41
Reach F	613	1	2680.52	2679.34	1.19	5.75	0.08		305.70		27.64
Reach F	612	1	2675.52	2675.43	0.09	5.38	0.02	32.19	66.18	207.34	219.65
Reach F	611	1	2670.13	2669.88	0.25	4.83	0.02	1.62	281.24	22.84	142.74
Reach F	610	1	2665.49	2665.06	0.42	3.29	0.01	6.69	266.42	32.59	114.56
Reach F	609	1	2660.30	2659.20	1.10	5.11	0.07	3.38	293.05	9.29	63.45
Reach F	608	1	2655.05	2654.85	0.40	4.35	0.01	111.28	127.72	86.72	87.24
Reach F	607	1	2650.89	2650.34	0.35	4.75	0.03	76.10	226.59	3.01	74.58
Reach F	606	1	2645.91	2645.86	0.24	4.46	0.00	223.53	73.93	8.23	115.14
Reach F	605	1	2641.43	2641.15	0.28	4.11	0.01	129.03	176.10	0.57	189.20
Reach F	604	1	2636.12	2635.49	0.53	5.29	0.03	7.04	282.48	16.18	85.46
Reach F	603	1	2629.20	2628.80	0.40	4.05	0.03	34.18	198.39	73.13	80.96
Reach F	602	1	2625.12	2624.44	0.68	2.62	0.08	60.50	220.36	24.84	41.07
Reach F	601	1	2620.77	2619.79	0.98	4.32	0.03	5.11	288.68	10.90	68.10
Reach F	600	1	2612.02	2610.99	1.03	8.74	0.01		305.70	0.00	36.50

HYDRAULIC DEPTH TABLE

HEC-RAS Plan: Default Scenario River: Reach F Reach: Reach F Profile: 1

Reach	River Sta	Profile	Q Total (cfs)	W.S. Elev (ft)	Hydr Depth L (ft)	Hydr Depth C (ft)	Hydr Depth R (ft)	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)
Reach F	631	1	305.70	2785.48	0.56	1.13	0.62	69.99	149.90	85.81
Reach F	630	1	305.70	2779.48	0.36	0.78	0.54	14.28	203.76	87.67
Reach F	629	1	305.70	2773.57	0.07	0.76	0.04	0.14	305.48	0.09
Reach F	628	1	305.70	2768.53	0.20	1.60	0.35	3.67	281.47	20.56
Reach F	627	1	305.70	2762.36	0.38	1.34	0.59	20.22	259.18	26.29
Reach F	626	1	305.70	2755.91	0.33	1.31	0.44	3.09	284.97	17.64
Reach F	625	1	305.70	2750.97	0.37	1.61	0.43	21.77	274.08	9.85
Reach F	624	1	305.70	2747.62		0.72	0.03		305.69	0.01
Reach F	623	1	305.70	2739.77	0.08	0.49	0.18	0.37	301.62	3.71
Reach F	622	1	305.70	2733.21	0.58	0.77	0.48	121.51	136.33	47.86
Reach F	621	1	305.70	2727.72	0.18	1.30	0.50	1.18	298.58	5.94
Reach F	620	1	305.70	2722.07	0.56	1.74	0.24	15.28	267.86	2.57
Reach F	619	1	305.70	2710.27	0.23	1.53		9.26	296.44	
Reach F	618	1	305.70	2704.27	0.41	1.89	0.84	3.49	288.09	14.12
Reach F	617	1	305.70	2701.40		1.55	0.03		305.70	0.00
Reach F	616	1	305.70	2698.41	0.21	1.56	0.27	0.56	303.92	1.22
Reach F	615	1	305.70	2690.47	0.11	1.31		0.13	305.57	
Reach F	614	1	305.70	2685.98	0.51	1.93	0.67	138.95	152.98	13.77
Reach F	613	1	305.70	2679.34		1.27			305.70	
Reach F	612	1	305.70	2675.43	0.26	0.80	0.85	32.19	66.18	207.34
Reach F	611	1	305.70	2669.88	0.24	0.73	0.29	1.62	281.24	22.84
Reach F	610	1	305.70	2665.06	0.19	1.36	0.50	6.69	266.42	32.59
Reach F	609	1	305.70	2659.20	0.51	0.97	0.22	3.38	293.05	9.29
Reach F	608	1	305.70	2654.85	1.48	1.16	0.51	111.28	127.72	66.72
Reach F	607	1	305.70	2650.34	0.75	1.35	0.31	76.10	226.59	3.01
Reach F	606	1	305.70	2645.86	0.83	0.88	0.37	223.53	73.93	8.23
Reach F	605	1	305.70	2641.15	0.52	1.21	0.21	129.03	176.10	0.57
Reach F	604	1	305.70	2635.49	0.36	0.88	0.26	7.04	282.48	16.18
Reach F	603	1	305.70	2628.80	0.82	1.10	0.61	34.18	198.39	73.13
Reach F	602	1	305.70	2624.44	0.97	2.05	0.83	60.50	220.36	24.84
Reach F	601	1	305.70	2619.79	0.27	1.32	0.21	5.11	288.68	10.90
Reach F	600	1	305.70	2610.99		1.04	0.03		305.70	0.00

MANNING'S N-VALUE TABLE

HEC-RAS Plan: Default Scenario River: Reach F Reach: Reach F Profile: 1

Reach	River Sta	Profile	Q Total (cfs)	Mann Wtd Left	Mann Wtd Chnl	Mann Wtd Right	Mann Wtd Total
Reach F	631	1	305.70	0.045	0.035	0.060	0.042
Reach F	630	1	305.70	0.045	0.030	0.045	0.034
Reach F	629	1	305.70	0.035	0.030	0.035	0.029
Reach F	628	1	305.70	0.045	0.035	0.045	0.025
Reach F	627	1	305.70	0.045	0.035	0.045	0.032
Reach F	626	1	305.70	0.045	0.035	0.045	0.032
Reach F	625	1	305.70	0.045	0.035	0.045	0.028
Reach F	624	1	305.70		0.025	0.025	0.025
Reach F	623	1	305.70	0.045	0.035	0.045	0.034
Reach F	622	1	305.70	0.045	0.030	0.045	0.038
Reach F	621	1	305.70	0.045	0.030	0.060	0.028
Reach F	620	1	305.70	0.045	0.035	0.045	0.030
Reach F	619	1	305.70	0.045	0.030		0.023
Reach F	618	1	305.70	0.045	0.030	0.045	0.028
Reach F	617	1	305.70		0.035	0.045	0.035
Reach F	616	1	305.70	0.045	0.030	0.045	0.028
Reach F	615	1	305.70	0.045	0.030		0.029
Reach F	614	1	305.70	0.045	0.035	0.060	0.034
Reach F	613	1	305.70		0.035		0.035
Reach F	612	1	305.70	0.045	0.035	0.060	0.048
Reach F	611	1	305.70	0.060	0.045	0.060	0.043
Reach F	610	1	305.70	0.045	0.030	0.060	0.026
Reach F	609	1	305.70	0.045	0.030	0.060	0.026
Reach F	608	1	305.70	0.060	0.030	0.045	0.039
Reach F	607	1	305.70	0.045	0.035	0.045	0.035
Reach F	606	1	305.70	0.060	0.030	0.045	0.052
Reach F	605	1	305.70	0.060	0.030	0.045	0.039
Reach F	604	1	305.70	0.060	0.035	0.045	0.032
Reach F	603	1	305.70	0.045	0.035	0.045	0.037
Reach F	602	1	305.70	0.045	0.030	0.030	0.030
Reach F	601	1	305.70	0.045	0.030	0.045	0.022
Reach F	600	1	305.70		0.035	0.045	0.035

WATERHSED G

HEC-RAS OUTPUT

Plan: Default Scenario Reach G Reach G RS: 731 Profile: 1

E.G. Elev (ft)	2776.22	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.94	Wt. n-Val.	0.030	0.030	0.030
W.S. Elev (ft)	2775.29	Reach Len. (ft)	256.09	256.09	256.09
Crit W.S. (ft)	2775.44	Flow Area (sq ft)	5.49	110.71	0.89
E.G. Slope (ft/ft)	0.014033	Area (sq ft)	5.49	110.71	0.89
Q Total (cfs)	891.00	Flow (cfs)	19.82	869.11	2.07
Top Width (ft)	86.23	Top Width (ft)	11.34	71.37	3.53
Vel Total (ft/s)	7.61	Avg. Vel. (ft/s)	3.61	7.85	2.33
Max Chl Dpth (ft)	2.47	Hydr. Depth (ft)	0.48	1.55	0.25
Conv. Total (cfs)	7521.6	Conv. (cfs)	167.3	7336.7	17.5
Length Wtd. (ft)	256.09	Wetted Per. (ft)	11.37	71.53	3.56
Min Ch El (ft)	2772.82	Shear (lb/sq ft)	0.42	1.36	0.22
Alpha	1.04	Stream Power (lb/ft s)	335.10	0.00	0.00
Frctn Loss (ft)		Cum Volume (acre-ft)	10.61	14.69	7.77
C & E Loss (ft)		Cum SA (acres)	11.86	6.91	9.28

Plan: Default Scenario Reach G Reach G RS: 730 Profile: 1

E.G. Elev (ft)	2773.99	Element	Left OB	Channel	Right OB
Vel Head (ft)	1.10	Wt. n-Val.	0.045	0.035	0.045
W.S. Elev (ft)	2772.88	Reach Len. (ft)	344.46	344.46	344.46
Crit W.S. (ft)	2772.88	Flow Area (sq ft)	31.49	76.18	21.97
E.G. Slope (ft/ft)	0.008945	Area (sq ft)	31.49	76.18	21.97
Q Total (cfs)	891.00	Flow (cfs)	97.21	707.56	86.22
Top Width (ft)	68.33	Top Width (ft)	31.83	21.27	15.23
Vel Total (ft/s)	6.87	Avg. Vel. (ft/s)	3.09	9.29	3.93
Max Chl Dpth (ft)	4.34	Hydr. Depth (ft)	0.99	3.58	1.44
Conv. Total (cfs)	9421.0	Conv. (cfs)	1027.9	7481.5	911.7
Length Wtd. (ft)	344.46	Wetted Per. (ft)	32.03	21.65	15.59
Min Ch El (ft)	2768.54	Shear (lb/sq ft)	0.55	1.96	0.79
Alpha	1.50	Stream Power (lb/ft s)	336.76	0.00	0.00
Frctn Loss (ft)	3.38	Cum Volume (acre-ft)	10.50	14.14	7.71
C & E Loss (ft)	0.06	Cum SA (acres)	11.73	6.64	9.22

Plan: Default Scenario Reach G Reach G RS: 729 Profile: 1

E.G. Elev (ft)	2768.65	Element	Left OB	Channel	Right OB
Vel Head (ft)	2.08	Wt. n-Val.	0.045	0.035	0.045
W.S. Elev (ft)	2766.57	Reach Len. (ft)	326.04	326.04	326.04
Crit W.S. (ft)	2767.21	Flow Area (sq ft)	39.18	42.62	10.45
E.G. Slope (ft/ft)	0.031512	Area (sq ft)	39.18	42.62	10.45
Q Total (cfs)	891.00	Flow (cfs)	259.69	578.68	52.63
Top Width (ft)	62.97	Top Width (ft)	32.47	17.53	12.98
Vel Total (ft/s)	9.66	Avg. Vel. (ft/s)	6.63	13.58	5.04
Max Chl Dpth (ft)	2.83	Hydr. Depth (ft)	1.21	2.43	0.80
Conv. Total (cfs)	5019.3	Conv. (cfs)	1462.9	3259.9	296.5
Length Wtd. (ft)	326.04	Wetted Per. (ft)	32.58	17.63	13.10
Min Ch El (ft)	2763.74	Shear (lb/sq ft)	2.37	4.76	1.57
Alpha	1.44	Stream Power (lb/ft s)	281.77	0.00	0.00
Frctn Loss (ft)	5.25	Cum Volume (acre-ft)	10.22	13.67	7.58
C & E Loss (ft)	0.10	Cum SA (acres)	11.48	6.49	9.11

Plan: Default Scenario Reach G Reach G RS: 728 Profile: 1

E.G. Elev (ft)	2764.48	Element	Left OB	Channel	Right OB
Vel Head (ft)	1.33	Wt. n-Val.	0.045	0.035	0.045
W.S. Elev (ft)	2763.16	Reach Len. (ft)	306.03	306.03	306.03
Crit W.S. (ft)	2763.16	Flow Area (sq ft)	39.73	52.38	27.62
E.G. Slope (ft/ft)	0.011503	Area (sq ft)	39.73	52.38	27.62
Q Total (cfs)	891.00	Flow (cfs)	204.76	573.57	112.67
Top Width (ft)	58.33	Top Width (ft)	22.33	13.97	22.03
Vel Total (ft/s)	7.44	Avg. Vel. (ft/s)	5.15	10.95	4.08
Max Chl Dpth (ft)	4.15	Hydr. Depth (ft)	1.78	3.75	1.25
Conv. Total (cfs)	8307.5	Conv. (cfs)	1909.1	5347.8	1050.6
Length Wtd. (ft)	306.03	Wetted Per. (ft)	22.63	14.05	22.34
Min Ch El (ft)	2759.01	Shear (lb/sq ft)	1.26	2.68	0.89
Alpha	1.54	Stream Power (lb/ft s)	239.51	0.00	0.00
Frctn Loss (ft)	3.77	Cum Volume (acre-ft)	9.93	13.32	7.44
C & E Loss (ft)	0.20	Cum SA (acres)	11.27	6.37	8.98

Plan: Default Scenario Reach G Reach G RS: 727 Profile: 1

E.G. Elev (ft)	2759.61	Element	Left OB	Channel	Right OB
Vel Head (ft)	1.01	Wt. n-Val.	0.045	0.035	0.045
W.S. Elev (ft)	2758.60	Reach Len. (ft)	320.14	320.14	320.14
Crit W.S. (ft)	2758.84	Flow Area (sq ft)	94.69	36.64	2.20
E.G. Slope (ft/ft)	0.022495	Area (sq ft)	94.69	36.64	2.20
Q Total (cfs)	891.00	Flow (cfs)	493.55	391.33	6.12
Top Width (ft)	108.99	Top Width (ft)	87.40	16.50	5.09
Vel Total (ft/s)	6.67	Avg. Vel. (ft/s)	5.21	10.68	2.79
Max Chl Dpth (ft)	3.08	Hydr. Depth (ft)	1.08	2.22	0.43
Conv. Total (cfs)	5940.7	Conv. (cfs)	3290.7	2609.2	40.8
Length Wtd. (ft)	320.14	Wetted Per. (ft)	87.69	16.87	5.21
Min Ch El (ft)	2755.52	Shear (lb/sq ft)	1.52	3.05	0.59
Alpha	1.46	Stream Power (lb/ft s)	220.50	0.00	0.00
Frctn Loss (ft)	4.79	Cum Volume (acre-ft)	9.46	13.00	7.33
C & E Loss (ft)	0.09	Cum SA (acres)	10.89	6.26	8.88

Plan: Default Scenario Reach G Reach G RS: 726 Profile: 1

E.G. Elev (ft)	2755.41	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.85	Wt. n-Val.	0.045	0.035	0.045
W.S. Elev (ft)	2754.56	Reach Len. (ft)	340.25	340.25	340.25
Crit W.S. (ft)	2754.56	Flow Area (sq ft)	64.79	58.12	26.69
E.G. Slope (ft/ft)	0.010235	Area (sq ft)	64.79	58.12	26.69
Q Total (cfs)	891.00	Flow (cfs)	258.54	525.72	106.74
Top Width (ft)	88.63	Top Width (ft)	49.53	18.87	20.23
Vel Total (ft/s)	5.96	Avg. Vel. (ft/s)	3.99	9.05	4.00
Max Chl Dpth (ft)	3.61	Hydr. Depth (ft)	1.31	3.08	1.32
Conv. Total (cfs)	8807.3	Conv. (cfs)	2555.6	5196.6	1055.1
Length Wtd. (ft)	340.25	Wetted Per. (ft)	49.62	19.01	20.38
Min Ch El (ft)	2750.95	Shear (lb/sq ft)	0.83	1.95	0.84
Alpha	1.55	Stream Power (lb/ft s)	245.80	0.00	0.00
Frctn Loss (ft)	3.00	Cum Volume (acre-ft)	8.87	12.66	7.23
C & E Loss (ft)	0.07	Cum SA (acres)	10.38	6.13	8.79

Plan: Default Scenario Reach G Reach G RS: 725 Profile: 1

E.G. Elev (ft)	2750.27	Element	Left OB	Channel	Right OB
Vel Head (ft)	1.53	Wt. n-Val.	0.045	0.035	0.045
W.S. Elev (ft)	2748.74	Reach Len. (ft)	257.45	257.45	257.45
Crit W.S. (ft)	2749.37	Flow Area (sq ft)	28.86	54.34	25.81
E.G. Slope (ft/ft)	0.023688	Area (sq ft)	28.86	54.34	25.81
Q Total (cfs)	891.00	Flow (cfs)	132.94	621.81	136.25
Top Width (ft)	96.18	Top Width (ft)	48.49	23.38	24.31
Vel Total (ft/s)	8.17	Avg. Vel. (ft/s)	4.61	11.44	5.28
Max Chl Dpth (ft)	2.70	Hydr. Depth (ft)	0.60	2.32	1.06
Conv. Total (cfs)	5789.1	Conv. (cfs)	863.8	4040.1	885.3
Length Wtd. (ft)	257.45	Wetted Per. (ft)	48.58	23.45	24.39
Min Ch El (ft)	2746.04	Shear (lb/sq ft)	0.88	3.43	1.57
Alpha	1.48	Stream Power (lb/ft s)	215.73	0.00	0.00
Frctn Loss (ft)	5.07	Cum Volume (acre-ft)	8.50	12.22	7.02
C & E Loss (ft)	0.07	Cum SA (acres)	10.00	5.97	8.62

Plan: Default Scenario Reach G Reach G RS: 724 Profile: 1

E.G. Elev (ft)	2745.99	Element	Left OB	Channel	Right OB
Vel Head (ft)	1.09	Wt. n-Val.	0.060	0.030	0.045
W.S. Elev (ft)	2744.90	Reach Len. (ft)	238.03	238.03	238.03
Crit W.S. (ft)	2745.14	Flow Area (sq ft)	29.58	72.69	40.28
E.G. Slope (ft/ft)	0.011647	Area (sq ft)	29.58	72.69	40.28
Q Total (cfs)	891.00	Flow (cfs)	78.17	684.62	128.21
Top Width (ft)	108.62	Top Width (ft)	30.00	30.93	47.69
Vel Total (ft/s)	6.25	Avg. Vel. (ft/s)	2.64	9.42	3.18
Max Chl Dpth (ft)	2.75	Hydr. Depth (ft)	0.99	2.35	0.84
Conv. Total (cfs)	8255.9	Conv. (cfs)	724.3	6343.6	1188.0
Length Wtd. (ft)	238.03	Wetted Per. (ft)	30.08	31.09	47.73
Min Ch El (ft)	2742.15	Shear (lb/sq ft)	0.71	1.70	0.61
Alpha	1.80	Stream Power (lb/ft s)	319.19	0.00	0.00
Frctn Loss (ft)	4.14	Cum Volume (acre-ft)	8.33	11.84	6.82
C & E Loss (ft)	0.13	Cum SA (acres)	9.77	5.81	8.40

Plan: Default Scenario Reach G Reach G RS: 723 Profile: 1

E.G. Elev (ft)	2742.10	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.50	Wt. n-Val.	0.060	0.030	0.045
W.S. Elev (ft)	2741.60	Reach Len. (ft)	182.94	182.94	182.94
Crit W.S. (ft)	2741.56	Flow Area (sq ft)	110.70	40.87	67.28
E.G. Slope (ft/ft)	0.010747	Area (sq ft)	110.70	40.87	67.28
Q Total (cfs)	891.00	Flow (cfs)	314.56	337.15	239.28
Top Width (ft)	178.50	Top Width (ft)	95.04	19.99	63.47
Vel Total (ft/s)	4.07	Avg. Vel. (ft/s)	2.84	8.25	3.56
Max Chl Dpth (ft)	2.36	Hydr. Depth (ft)	1.16	2.04	1.06
Conv. Total (cfs)	8594.7	Conv. (cfs)	3034.3	3252.2	2308.2
Length Wtd. (ft)	182.94	Wetted Per. (ft)	95.08	20.08	63.53
Min Ch El (ft)	2739.24	Shear (lb/sq ft)	0.78	1.37	0.71
Alpha	1.93	Stream Power (lb/ft s)	281.87	0.00	0.00
Frctn Loss (ft)	2.31	Cum Volume (acre-ft)	7.95	11.53	6.53
C & E Loss (ft)	0.03	Cum SA (acres)	9.43	5.67	8.10

Plan: Default Scenario Reach G Reach G RS: 722 Profile: 1

E.G. Elev (ft)	2739.76	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.77	Wt. n-Val.	0.060	0.030	0.045
W.S. Elev (ft)	2738.99	Reach Len. (ft)	140.93	140.93	140.93
Crit W.S. (ft)	2738.99	Flow Area (sq ft)	108.09	48.48	6.08
E.G. Slope (ft/ft)	0.015086	Area (sq ft)	108.09	48.48	6.08
Q Total (cfs)	891.00	Flow (cfs)	420.72	445.45	24.83
Top Width (ft)	106.28	Top Width (ft)	74.48	26.12	5.68
Vel Total (ft/s)	5.48	Avg. Vel. (ft/s)	3.89	9.19	4.09
Max Chl Dpth (ft)	2.03	Hydr. Depth (ft)	1.45	1.86	1.07
Conv. Total (cfs)	7254.2	Conv. (cfs)	3425.4	3626.7	202.1
Length Wtd. (ft)	140.93	Wetted Per. (ft)	74.67	26.12	6.01
Min Ch El (ft)	2737.05	Shear (lb/sq ft)	1.36	1.75	0.95
Alpha	1.66	Stream Power (lb/ft s)	125.89	0.00	0.00
Frctn Loss (ft)	2.33	Cum Volume (acre-ft)	7.49	11.34	6.38
C & E Loss (ft)	0.07	Cum SA (acres)	9.07	5.57	7.96

Plan: Default Scenario Reach G Reach G RS: 721 Profile: 1

E.G. Elev (ft)	2735.63	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.55	Wt. n-Val.	0.060	0.060	0.060
W.S. Elev (ft)	2735.08	Reach Len. (ft)	278.05	278.05	278.05
Crit W.S. (ft)	2734.61	Flow Area (sq ft)	19.47	83.16	54.24
E.G. Slope (ft/ft)	0.018195	Area (sq ft)	19.47	83.16	54.24
Q Total (cfs)	891.00	Flow (cfs)	66.95	548.42	275.63
Top Width (ft)	77.10	Top Width (ft)	18.50	29.92	28.69
Vel Total (ft/s)	5.68	Avg. Vel. (ft/s)	3.44	6.59	5.08
Max Chl Dpth (ft)	2.93	Hydr. Depth (ft)	1.05	2.78	1.89
Conv. Total (cfs)	6605.4	Conv. (cfs)	496.3	4065.6	2043.4
Length Wtd. (ft)	278.05	Wetted Per. (ft)	18.64	29.99	28.91
Min Ch El (ft)	2732.15	Shear (lb/sq ft)	1.19	3.15	2.13
Alpha	1.10	Stream Power (lb/ft s)	273.84	0.00	0.00
Frctn Loss (ft)	3.15	Cum Volume (acre-ft)	7.28	11.13	6.28
C & E Loss (ft)	0.02	Cum SA (acres)	8.92	5.48	7.90

Plan: Default Scenario Reach G Reach G RS: 720 Profile: 1

E.G. Elev (ft)	2732.47	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.73	Wt. n-Val.	0.045	0.035	0.060
W.S. Elev (ft)	2731.73	Reach Len. (ft)	437.11	437.11	437.11
Crit W.S. (ft)	2731.73	Flow Area (sq ft)	70.95	67.21	42.78
E.G. Slope (ft/ft)	0.007708	Area (sq ft)	70.95	67.21	42.78
Q Total (cfs)	891.00	Flow (cfs)	210.07	562.07	118.86
Top Width (ft)	117.97	Top Width (ft)	68.63	19.91	29.43
Vel Total (ft/s)	4.92	Avg. Vel. (ft/s)	2.96	8.36	2.78
Max Chl Dpth (ft)	3.80	Hydr. Depth (ft)	1.03	3.38	1.45
Conv. Total (cfs)	10148.3	Conv. (cfs)	2392.7	6401.8	1353.8
Length Wtd. (ft)	437.11	Wetted Per. (ft)	68.73	20.00	29.61
Min Ch El (ft)	2727.93	Shear (lb/sq ft)	0.50	1.62	0.70
Alpha	1.95	Stream Power (lb/ft s)	194.78	0.00	0.00
Frctn Loss (ft)	2.95	Cum Volume (acre-ft)	6.99	10.65	5.97
C & E Loss (ft)	0.04	Cum SA (acres)	8.64	5.32	7.71