

**Table C-1. Detailed HEC-RAS Model Results for Calibration (Q = 250 cfs)**

River Station (RS No)	Survey Cross-Section (XS No)	Q Total (cfs)	Minimum Channel Elevation (ft)	Water Surface Elevation (ft)	Critical Water Surface Elevation (ft)	Energy Gradeline Elevation (ft)	Energy Gradeline Slope (ft/ft)	Channel Velocity (ft/s)	Flow Area (sq ft)	Top Width (ft)	Channel Froude #
40	2	250	286.8	288.9	288.1	288.9	0.0044	1.6	160	138	0.26
39	3	250	282.9	285.7		285.7	0.0031	1.9	135	87	0.26
38	4	250	281.5	284.7	282.8	284.7	0.0016	1.1	233	133	0.14
37	5	250	278.9	281.4	280.3	281.5	0.0048	1.9	134	79	0.25
36	6	250	272.5	277.6	274.2	277.6	0.0001	0.4	563	194	0.05
35	7	250	273.9	277.4		277.4	0.0005	0.7	374	184	0.08
34	9	250	273.9	276.6	275.4	276.7	0.0051	2.0	127	76	0.27
33	10	250	271.8	276.0	273.2	276.0	0.0004	0.6	403	181	0.07
32	11	250	272.4	275.4	273.8	275.4	0.0017	1.0	241	169	0.15
31	12	250	265.0	275.0	266.6	275.0	0.0000	0.3	902	153	0.02
30	13	230	272.4	274.9	274.2	275.0	0.0095	1.7	135	148	0.32
29	14	230	266.6	271.4	267.9	271.4	0.0004	0.9	261	70	0.08
28	15	230	267.5	270.9	269.4	271.0	0.0036	1.9	121	58	0.23
27	16	230	265.2	268.7	266.7	268.7	0.0026	1.8	131	54	0.20
26	17	230	260.8	265.5	262.9	265.5	0.0026	2.0	116	40	0.21
25	18	230	260.5	263.1	261.8	263.1	0.0041	1.6	146	95	0.22
24	19	230	257.3	260.0	258.3	260.0	0.0007	0.7	315	168	0.09
23	20	230	256.1	258.4	257.4	258.4	0.0053	1.9	124	81	0.26
22	21	230	241.4	254.8	243.3	254.8	0.0000	0.2	1,066	166	0.02
21	22	230	252.7	254.7	254.0	254.8	0.0057	1.4	166	176	0.25
20	23	230	246.9	249.3	248.1	249.4	0.0043	2.0	118	68	0.26
19	24	230	241.0	246.9	242.7	246.9	0.0003	0.8	277	75	0.08
18	25	210	242.8	245.9	244.3	245.9	0.0037	1.9	113	54	0.23
17	26	210	241.4	243.3	242.6	243.3	0.0069	1.8	116	98	0.29
16	27	210	230.2	240.6	231.8	240.6	0.0000	0.2	901	148	0.02
15	29	190	238.3	240.5	239.7	240.6	0.0116	2.3	81	120	0.40
14	30	190	235.3	237.6	236.5	237.7	0.0045	1.8	104	63	0.25
13	31	190	232.9	235.9	233.9	236.0	0.0009	1.0	191	79	0.11
12	32	190	232.1	234.8	233.5	234.9	0.0023	1.3	149	91	0.18
11	33	190	230.7	233.0	231.9	233.1	0.0018	1.0	186	134	0.15
10	34	190	228.1	232.4	229.3	232.4	0.0003	0.7	290	98	0.07
9	35	190	228.0	232.3	229.1	232.3	0.0001	0.4	437	146	0.04
8.2		190	228.9	232.3	229.8	232.3	0.0002	0.5	399	155	0.05
8.15		Bridge									
8.1		190	228.9	232.3	229.8	232.3	0.0002	0.5	398	155	0.05
8	35.1	190	228.9	232.3	229.8	232.3	0.0002	0.5	396	155	0.05
7	37	170	229.0	232.1	230.9	232.2	0.0080	2.8	62	84	0.35
6	38	170	221.7	224.9		224.9	0.0030	1.5	115	66	0.20
5	39	170	219.6	222.9	221.0	222.9	0.0021	1.6	108	47	0.18
4	40	170	216.3	221.6		221.6	0.0002	0.5	346	119	0.05
3	41	170	218.0	221.1	219.0	221.1	0.0005	0.7	243	149	0.08
2	42	150	219.0	220.3	219.9	220.3	0.0157	1.7	91	162	0.39
1	43	150	212.2	215.3	213.6	215.3	0.0031	1.4	106	73	0.21

**Table C-2. Detailed HEC-RAS Model Results for Verification (Q = 3,200 cfs)**

River Station (RS No)	Survey Cross-Section (XS No)	Q Total (cfs)	Minimum Channel Elevation (ft)	Water Surface Elevation (ft)	Critical Water Surface Elevation (ft)	Energy Gradeline Elevation (ft)	Energy Gradeline Slope (ft/ft)	Channel Velocity (ft/s)	Flow Area (sq ft)	Top Width (ft)	Channel Froude #
40	2	3,200	286.8	292.9		293.1	0.0033	3.3	974	233	0.28
39	3	3,200	282.9	290.5		290.7	0.0026	3.2	1,011	247	0.28
38	4	3,200	281.5	289.6	285.6	289.7	0.0018	2.6	1,230	253	0.21
37	5	3,200	278.9	286.4		286.6	0.0031	3.2	1,009	254	0.28
36	6	3,200	272.5	283.7	276.6	283.7	0.0005	1.7	1,890	262	0.10
35	7	3,200	273.9	283.2		283.3	0.0008	2.1	1,563	217	0.13
34	9	3,200	273.9	282.0	279.0	282.2	0.0029	3.7	1,083	505	0.26
33	10	3,200	271.8	281.7	275.9	281.8	0.0007	1.9	1,750	361	0.13
32	11	3,200	272.4	280.9	276.2	281.0	0.0012	2.4	1,388	430	0.17
31	12	3,200	265.0	280.5	270.2	280.6	0.0004	1.7	1,870	188	0.09
30	13	3,200	272.4	280.2	276.5	280.4	0.0026	3.2	1,032	264	0.23
29	14	3,200	266.6	278.6	271.7	278.8	0.0017	3.6	908	153	0.21
28	15	3,200	267.5	277.6	273.5	277.8	0.0024	3.7	1,026	298	0.25
27	16	3,200	265.2	275.6	271.4	275.8	0.0028	3.5	926	303	0.27
26	17	3,200	260.8	271.0	268.7	271.3	0.0052	4.8	766	324	0.36
25	18	3,200	260.5	268.5	264.8	268.6	0.0029	3.3	985	394	0.25
24	19	3,200	257.3	266.1	260.4	266.1	0.0009	2.1	1,519	228	0.14
23	20	3,200	256.1	263.6	260.5	264.0	0.0056	4.8	667	500	0.36
22	21	3,200	241.4	259.8	248.5	259.9	0.0003	1.5	2,100	226	0.09
21	22	3,200	252.7	258.4	256.0	258.5	0.0020	2.3	1,549	531	0.19
20	23	3,200	246.9	255.8	251.7	256.0	0.0026	3.7	919	443	0.27
19	24	3,200	241.0	253.8	247.1	254.0	0.0012	2.8	1,141	240	0.19
18	25	3,200	242.8	250.6	248.7	250.8	0.0064	3.9	814	298	0.39
17	26	3,200	241.4	247.9	245.2	248.1	0.0036	3.6	895	201	0.29
16	27	3,200	230.2	246.5	235.9	246.5	0.0003	1.8	1,832	249	0.09
15	29	3,200	238.3	244.7	242.7	244.9	0.0042	3.5	932	444	0.33
14	30	3,200	235.3	243.6	240.6	243.7	0.0027	3.2	1,030	328	0.27
13	31	3,200	232.9	242.2	237.3	242.3	0.0016	3.0	1,134	275	0.20
12	32	3,200	232.1	240.3	236.6	240.5	0.0028	3.5	964	338	0.26
11	33	3,200	230.7	238.7	234.3	238.8	0.0012	2.4	1,545	380	0.16
10	34	3,200	228.1	238.0	232.7	238.1	0.0012	2.7	1,297	219	0.16
9	35	3,200	228.0	237.4	231.8	237.5	0.0012	2.6	1,290	312	0.16
8.2		3,200	228.9	237.4	232.1	237.5	0.0014	2.6	1,214	394	0.17
8.15		Bridge									
8.1		3,200	228.9	237.3	232.1	237.4	0.0015	2.7	1,203	390	0.18
8	35.1	3,200	228.9	237.2	232.1	237.3	0.0015	2.7	1,184	385	0.18
7	37	3,200	229.0	236.3	235.4	236.5	0.0069	4.5	806	477	0.43
6	38	3,200	221.7	231.2		231.3	0.0013	2.7	1,352	285	0.17
5	39	3,200	219.6	230.0	226.3	230.1	0.0023	3.6	1,006	298	0.26
4	40	3,200	216.3	228.0		228.1	0.0010	2.5	1,271	158	0.16
3	41	3,200	218.0	225.7	221.9	225.7	0.0016	2.7	1,486	495	0.18
2	42	3,200	219.0	224.1	222.0	224.2	0.0039	2.7	1,340	627	0.26
1	43	3,200	212.2	222.8	217.7	222.9	0.0010	2.6	1,448	517	0.16

**Table C-3. Detailed HEC-RAS Model Results for 1.5-year Discharge (Q = 1,400 cfs)**

River Station (RS No)	Survey Cross-Section (XS No)	Q Total (cfs)	Minimum Channel Elevation (ft)	Water Surface Elevation (ft)	Critical Water Surface Elevation (ft)	Energy Gradeline Elevation (ft)	Energy Gradeline Slope (ft/ft)	Channel Velocity (ft/s)	Flow Area (sq ft)	Top Width (ft)	Channel Froude #	Channel Shear (lb/sq ft)
40	2	1,400	286.8	291.1		291.2	0.0036	2.5	565	219	0.27	0.57
39	3	1,400	282.9	288.5		288.6	0.0028	2.6	541	200	0.28	0.46
38	4	1,400	281.5	287.5	284.4	287.6	0.0016	1.9	743	212	0.18	0.34
37	5	1,400	278.9	284.5		284.6	0.0041	2.6	542	222	0.29	0.63
36	6	1,400	272.5	280.9	275.5	280.9	0.0003	1.1	1,266	220	0.08	0.12
35	7	1,400	273.9	280.6		280.6	0.0006	1.4	1,010	208	0.11	0.19
34	9	1,400	273.9	279.6	277.2	279.7	0.0046	3.3	451	158	0.30	1.00
33	10	1,400	271.8	279.0	274.8	279.1	0.0007	1.4	1,024	294	0.11	0.20
32	11	1,400	272.4	278.2	275.2	278.2	0.0015	1.9	745	305	0.17	0.35
31	12	1,400	265.0	277.8	268.6	277.8	0.0002	1.0	1,372	175	0.06	0.09
30	13	1,400	272.4	277.6	275.4	277.7	0.0036	2.6	549	166	0.25	0.73
29	14	1,400	266.6	275.9	269.8	276.0	0.0009	2.2	641	92	0.15	0.38
28	15	1,400	267.5	275.1	271.5	275.3	0.0029	3.1	484	150	0.25	0.80
27	16	1,400	265.2	273.2	269.1	273.3	0.0025	2.7	523	219	0.24	0.58
26	17	1,400	260.8	268.8	266.0	269.0	0.0050	4.0	400	140	0.33	1.35
25	18	1,400	260.5	266.0	263.5	266.1	0.0034	2.6	539	229	0.25	0.70
24	19	1,400	257.3	263.3	259.4	263.4	0.0008	1.5	934	203	0.12	0.22
23	20	1,400	256.1	261.3	259.0	261.5	0.0055	3.6	392	228	0.33	1.25
22	21	1,400	241.4	257.6	246.1	257.6	0.0001	0.9	1,611	215	0.06	0.06
21	22	1,400	252.7	256.8	255.0	256.9	0.0037	2.4	599	455	0.25	0.66
20	23	1,400	246.9	253.1	250.0	253.3	0.0030	3.0	463	227	0.28	0.68
19	24	1,400	241.0	251.2	245.0	251.2	0.0008	2.0	718	125	0.14	0.28
18	25	1,400	242.8	248.9	246.6	249.1	0.0069	3.2	435	224	0.38	0.96
17	26	1,400	241.4	245.8	244.1	245.9	0.0048	2.9	484	184	0.31	0.78
16	27	1,400	230.2	243.9	234.0	243.9	0.0002	1.0	1,411	159	0.06	0.08
15	29	1,400	238.3	243.0	241.7	243.2	0.0059	2.9	482	303	0.36	0.74
14	30	1,400	235.3	241.4	238.5	241.5	0.0035	2.6	540	246	0.28	0.60
13	31	1,400	232.9	239.8	235.6	239.9	0.0015	2.2	662	182	0.18	0.41
12	32	1,400	232.1	238.2	235.2	238.3	0.0026	2.6	537	158	0.23	0.63
11	33	1,400	230.7	236.6	233.2	236.7	0.0011	1.7	849	264	0.15	0.29
10	34	1,400	228.1	236.1	231.2	236.2	0.0007	1.8	879	211	0.12	0.28
9	35	1,400	228.0	235.8	230.6	235.8	0.0005	1.5	963	207	0.10	0.20
8.2		1,400	228.9	235.8	231.0	235.8	0.0006	1.5	950	305	0.11	0.21
8.15		Bridge										
8.1		1,400	228.9	235.7	231.0	235.8	0.0006	1.5	946	303	0.11	0.21
8	35.1	1,400	228.9	235.7	231.0	235.7	0.0006	1.5	939	301	0.11	0.21
7	37	1,400	229.0	235.2	233.9	235.4	0.0081	4.0	354	414	0.45	1.22
6	38	1,400	221.7	229.0		229.1	0.0016	2.4	727	276	0.18	0.53
5	39	1,400	219.6	227.5	223.7	227.6	0.0027	2.9	476	140	0.28	0.58
4	40	1,400	216.3	225.6		225.6	0.0006	1.6	903	149	0.11	0.21
3	41	1,400	218.0	224.1	220.6	224.1	0.0012	2.0	853	400	0.15	0.39
2	42	1,400	219.0	222.4	221.0	222.5	0.0070	2.9	484	336	0.33	1.04
1	43	1,400	212.2	220.3	216.2	220.4	0.0010	2.0	755	226	0.15	0.32

**Table C-4. Detailed HEC-RAS Model Results for 5-year Discharge (Q = 4,530 cfs)**

River Station (RS No)	Survey Cross-Section (XS No)	Q Total (cfs)	Minimum Channel Elevation (ft)	Water Surface Elevation (ft)	Critical Water Surface Elevation (ft)	Energy Gradeline Elevation (ft)	Energy Gradeline Slope (ft/ft)	Channel Velocity (ft/s)	Flow Area (sq ft)	Top Width (ft)	Channel Froude #	Channel Shear (lb/sq ft)
40	2	4,530	286.8	294.0		294.2	0.0032	3.7	1,221	245	0.29	1.02
39	3	4,530	282.9	291.6		291.8	0.0025	3.5	1,289	263	0.28	0.76
38	4	4,530	281.5	290.6	286.3	290.8	0.0020	3.0	1,507	262	0.22	0.72
37	5	4,530	278.9	287.6		287.7	0.0027	3.5	1,316	284	0.27	0.88
36	6	4,530	272.5	285.0	277.2	285.1	0.0006	2.1	2,246	303	0.12	0.34
35	7	4,530	273.9	284.5		284.6	0.0010	2.5	1,856	244	0.15	0.50
34	9	4,530	273.9	283.4	279.7	283.5	0.0020	3.5	1,583	552	0.23	0.89
33	10	4,530	271.8	283.1	276.5	283.2	0.0007	2.2	2,296	547	0.13	0.38
32	11	4,530	272.4	282.3	276.8	282.4	0.0012	2.7	1,757	518	0.17	0.56
31	12	4,530	265.0	281.9	271.1	282.0	0.0005	2.1	2,138	198	0.11	0.34
30	13	4,530	272.4	281.6	277.1	281.7	0.0023	3.4	1,445	329	0.23	1.02
29	14	4,530	266.6	279.8	272.9	280.1	0.0022	4.4	1,063	203	0.24	1.34
28	15	4,530	267.5	278.8	275.0	279.0	0.0022	4.0	1,347	334	0.25	1.07
27	16	4,530	265.2	276.8	272.5	277.0	0.0030	3.9	1,155	369	0.29	1.03
26	17	4,530	260.8	272.0	269.4	272.4	0.0048	5.2	983	340	0.35	1.91
25	18	4,530	260.5	269.8	265.5	270.0	0.0027	3.7	1,276	464	0.25	1.05
24	19	4,530	257.3	267.5	261.0	267.6	0.0009	2.5	1,846	247	0.15	0.48
23	20	4,530	256.1	264.9	261.5	265.3	0.0057	5.6	840	653	0.38	2.41
22	21	4,530	241.4	260.9	249.7	261.0	0.0004	1.9	2,348	298	0.11	0.27
21	22	4,530	252.7	258.9	256.5	259.0	0.0024	2.8	1,821	547	0.22	0.75
20	23	4,530	246.9	256.7	252.8	256.8	0.0015	3.1	1,807	500	0.21	0.63
19	24	4,530	241.0	255.1	248.1	255.3	0.0014	3.4	1,390	297	0.21	0.73
18	25	4,530	242.8	251.5	249.3	251.8	0.0055	4.3	1,055	308	0.38	1.36
17	26	4,530	241.4	249.2	245.8	249.5	0.0031	4.0	1,160	232	0.29	1.16
16	27	4,530	230.2	247.9	237.1	248.0	0.0005	2.2	2,079	281	0.11	0.36
15	29	4,530	238.3	245.7	243.3	245.9	0.0037	3.8	1,220	496	0.32	1.01
14	30	4,530	235.3	244.7	241.2	244.9	0.0024	3.5	1,334	414	0.26	0.83
13	31	4,530	232.9	243.4	238.4	243.5	0.0018	3.5	1,403	310	0.22	0.86
12	32	4,530	232.1	241.4	237.4	241.6	0.0029	4.0	1,220	459	0.27	1.19
11	33	4,530	230.7	239.9	235.0	240.0	0.0011	2.6	2,063	526	0.17	0.53
10	34	4,530	228.1	239.2	233.5	239.3	0.0014	3.1	1,543	223	0.18	0.80
9	35	4,530	228.0	238.4	232.4	238.5	0.0015	3.2	1,545	355	0.19	0.83
8.2		4,530	228.9	238.4	232.7	238.4	0.0011	2.6	2,111	505	0.16	0.55
8.15		Bridge										
8.1		4,530	228.9	238.3	232.7	238.4	0.0012	2.6	2,083	504	0.16	0.56
8	35.1	4,530	228.9	238.1	232.7	238.3	0.0020	3.4	1,348	485	0.21	0.95
7	37	4,530	229.0	237.0	235.7	237.3	0.0063	4.8	1,044	505	0.41	1.64
6	38	4,530	221.7	232.4		232.6	0.0013	2.9	1,698	290	0.17	0.68
5	39	4,530	219.6	231.2	227.2	231.4	0.0020	3.8	1,358	316	0.25	0.90
4	40	4,530	216.3	229.2		229.4	0.0013	3.1	1,477	195	0.18	0.72
3	41	4,530	218.0	226.4	222.9	226.5	0.0017	3.0	1,823	513	0.19	0.79
2	42	4,530	219.0	225.0	222.7	225.1	0.0027	2.7	1,960	702	0.22	0.72
1	43	4,530	212.2	224.1	218.5	224.2	0.0010	2.9	1,920	650	0.17	0.54

**Table C-5. Detailed HEC-RAS Model Results for 10-year Discharge (Q = 6,640 cfs)**

River Station (RS No)	Survey Cross-Section (XS No)	Q Total (cfs)	Minimum Channel Elevation (ft)	Water Surface Elevation (ft)	Critical Water Surface Elevation (ft)	Energy Gradeline Elevation (ft)	Energy Gradeline Slope (ft/ft)	Channel Velocity (ft/s)	Flow Area (sq ft)	Top Width (ft)	Channel Froude #	Channel Shear (lb/sq ft)
40	2	6,640	286.8	295.3		295.6	0.0032	4.4	1,556	259	0.30	1.27
39	3	6,640	282.9	293.0		293.2	0.0024	4.0	1,682	304	0.28	0.90
38	4	6,640	281.5	292.0	287.1	292.2	0.0021	3.6	1,882	327	0.23	0.95
37	5	6,640	278.9	289.1		289.3	0.0023	3.9	1,830	349	0.26	0.97
36	6	6,640	272.5	286.8	278.0	286.9	0.0007	2.5	2,723	359	0.13	0.48
35	7	6,640	273.9	286.1		286.3	0.0011	3.0	2,285	280	0.17	0.69
34	9	6,640	273.9	285.1	280.7	285.2	0.0015	3.5	2,226	591	0.20	0.83
33	10	6,640	271.8	284.9	277.2	285.0	0.0007	2.4	3,064	620	0.13	0.44
32	11	6,640	272.4	284.1	277.6	284.2	0.0012	3.1	2,265	560	0.18	0.69
31	12	6,640	265.0	283.6	272.3	283.7	0.0006	2.7	2,591	315	0.13	0.51
30	13	6,640	272.4	283.3	278.0	283.4	0.0020	3.7	2,038	382	0.22	1.07
29	14	6,640	266.6	281.3	274.3	281.7	0.0029	5.5	1,283	239	0.28	2.00
28	15	6,640	267.5	280.3	275.8	280.5	0.0022	4.4	1,751	363	0.25	1.24
27	16	6,640	265.2	278.2	273.6	278.5	0.0030	4.6	1,459	430	0.31	1.31
26	17	6,640	260.8	273.3	270.6	273.7	0.0050	5.9	1,255	360	0.37	2.32
25	18	6,640	260.5	270.9	266.4	271.2	0.0030	4.4	1,625	573	0.28	1.42
24	19	6,640	257.3	267.9	261.8	268.1	0.0017	3.4	1,953	253	0.21	0.91
23	20	6,640	256.1	265.5	265.5	265.6	0.0022	3.6	2,556	711	0.23	0.99
22	21	6,640	241.4	262.5	251.1	262.6	0.0006	2.4	2,723	334	0.13	0.41
21	22	6,640	252.7	260.0	257.2	260.1	0.0021	3.0	2,457	591	0.21	0.80
20	23	6,640	246.9	258.1	254.0	258.3	0.0012	3.1	2,683	643	0.19	0.59
19	24	6,640	241.0	256.6	249.5	256.9	0.0017	4.0	1,908	545	0.23	0.99
18	25	6,640	242.8	252.9	250.1	253.2	0.0044	4.7	1,437	413	0.35	1.46
17	26	6,640	241.4	251.0	246.6	251.3	0.0027	4.4	1,553	274	0.28	1.33
16	27	6,640	230.2	249.8	238.2	249.9	0.0006	2.8	2,413	322	0.13	0.55
15	29	6,640	238.3	247.0	243.9	247.3	0.0033	4.3	1,621	677	0.31	1.17
14	30	6,640	235.3	246.1	242.0	246.4	0.0021	3.8	1,926	454	0.25	0.89
13	31	6,640	232.9	244.8	239.6	245.1	0.0020	4.1	1,779	504	0.24	1.14
12	32	6,640	232.1	242.7	238.6	243.0	0.0031	4.7	1,537	595	0.29	1.52
11	33	6,640	230.7	241.2	236.0	241.3	0.0012	3.0	2,866	679	0.17	0.66
10	34	6,640	228.1	240.2	235.2	240.4	0.0019	4.0	1,782	362	0.21	1.21
9	35	6,640	228.0	239.0	233.4	239.3	0.0024	4.2	1,740	442	0.24	1.41
8.2		6,640	228.9	239.0	233.6	239.2	0.0016	3.3	2,454	516	0.19	0.87
8.15		Bridge										
8.1		6,640	228.9	238.9	233.6	239.1	0.0017	3.3	2,412	515	0.20	0.91
8	35.1	6,640	228.9	238.8	233.6	239.0	0.0019	3.5	2,334	512	0.21	1.00
7	37	6,640	229.0	238.3	236.2	238.4	0.0025	3.6	2,278	678	0.27	0.86
6	38	6,640	221.7	234.0		234.1	0.0013	3.3	2,149	296	0.18	0.82
5	39	6,640	219.6	232.8	228.4	233.0	0.0019	4.2	1,792	361	0.25	1.04
4	40	6,640	216.3	230.4		230.7	0.0019	3.9	1,756	273	0.22	1.13
3	41	6,640	218.0	227.3	224.0	227.4	0.0016	3.1	2,594	540	0.19	0.80
2	42	6,640	219.0	225.9	223.4	226.0	0.0025	2.9	2,611	759	0.22	0.80
1	43	6,640	212.2	225.0	219.9	225.1	0.0010	3.1	3,030	763	0.17	0.60

**Table C-6. Detailed HEC-RAS Model Results for 100-yr Discharge (Q = 14,900 cfs)**

River Station (RS No)	Survey Cross-Section (XS No)	Q Total (cfs)	Minimum Channel Elevation (ft)	Water Surface Elevation (ft)	Critical Water Surface Elevation (ft)	Energy Gradeline Elevation (ft)	Energy Gradeline Slope (ft/ft)	Channel Velocity (ft/s)	Flow Area (sq ft)	Top Width (ft)	Channel Froude #	Channel Shear (lb/sq ft)
40	2	14,900	286.8	298.8		299.2	0.0028	5.4	3,454	824	0.30	1.72
39	3	14,900	282.9	296.9		297.2	0.0021	5.2	3,141	456	0.29	1.30
38	4	14,900	281.5	295.9	289.4	296.3	0.0022	4.8	3,421	450	0.25	1.52
37	5	14,900	278.9	293.5		293.8	0.0016	4.5	4,106	900	0.24	1.14
36	6	14,900	272.5	291.5	280.4	291.7	0.0010	3.9	4,073	491	0.17	1.00
35	7	14,900	273.9	290.5		290.8	0.0015	4.4	3,740	552	0.20	1.35
34	9	14,900	273.9	289.4	283.2	289.6	0.0012	4.1	4,080	878	0.19	0.99
33	10	14,900	271.8	289.4	279.9	289.4	0.0005	2.6	7,411	1,085	0.12	0.45
32	11	14,900	272.4	288.6	280.1	288.9	0.0014	4.4	3,657	696	0.21	1.21
31	12	14,900	265.0	288.0	275.9	288.2	0.0010	4.2	3,932	523	0.18	1.14
30	13	14,900	272.4	287.6	281.2	287.8	0.0018	4.5	3,738	571	0.22	1.42
29	14	14,900	266.6	285.3	278.6	286.1	0.0040	7.9	2,498	573	0.35	3.71
28	15	14,900	267.5	284.0	278.7	284.4	0.0025	5.8	2,873	521	0.28	1.96
27	16	14,900	265.2	281.0	276.6	281.8	0.0047	7.2	2,162	586	0.40	2.87
26	17	14,900	260.8	276.0	272.9	276.5	0.0038	6.3	2,791	453	0.34	2.41
25	18	14,900	260.5	274.1	269.2	274.3	0.0016	4.0	4,704	786	0.22	1.09
24	19	14,900	257.3	271.2	264.3	271.7	0.0028	5.5	2,820	433	0.28	2.08
23	20	14,900	256.1	268.4	265.5	268.5	0.0018	4.1	4,895	820	0.22	1.13
22	21	14,900	241.4	266.4	254.7	266.7	0.0011	4.0	3,885	515	0.18	0.99
21	22	14,900	252.7	263.2	258.5	263.3	0.0017	3.5	4,836	1,046	0.20	0.95
20	23	14,900	246.9	261.6	256.3	261.8	0.0010	3.7	4,826	721	0.19	0.75
19	24	14,900	241.0	260.0	253.4	260.4	0.0021	5.4	3,562	648	0.26	1.68
18	25	14,900	242.8	256.9	252.2	257.2	0.0021	4.6	4,215	851	0.27	1.19
17	26	14,900	241.4	255.4	249.1	255.9	0.0026	5.9	2,787	437	0.30	1.99
16	27	14,900	230.2	254.1	241.4	254.4	0.0010	4.1	4,325	638	0.17	1.10
15	29	14,900	238.3	250.3	245.9	250.7	0.0032	5.6	2,844	923	0.33	1.77
14	30	14,900	235.3	249.5	244.3	249.8	0.0023	5.1	3,363	641	0.28	1.44
13	31	14,900	232.9	248.3	242.2	248.6	0.0017	4.7	4,460	794	0.23	1.32
12	32	14,900	232.1	245.9	241.4	246.5	0.0041	6.7	2,377	700	0.36	2.83
11	33	14,900	230.7	244.2	238.5	244.4	0.0012	3.7	4,940	746	0.19	0.92
10	34	14,900	228.1	243.0	237.5	243.4	0.0027	5.6	3,384	722	0.27	2.24
9	35	14,900	228.0	241.6	236.2	241.9	0.0026	5.1	4,133	981	0.26	1.96
8.2		14,900	228.9	241.5	236.4	241.8	0.0024	4.7	3,914	646	0.25	1.64
8.15		Bridge										
8.1		14,900	228.9	241.4	236.4	241.7	0.0025	4.8	3,833	641	0.25	1.72
8	35.1	14,900	228.9	241.2	236.4	241.5	0.0028	5.0	3,672	617	0.27	1.88
7	37	14,900	229.0	240.6	238.0	240.9	0.0026	4.7	3,994	764	0.29	1.27
6	38	14,900	221.7	238.1		238.3	0.0015	4.4	3,655	612	0.20	1.31
5	39	14,900	219.6	236.9	231.1	237.2	0.0016	5.0	3,657	576	0.24	1.30
4	40	14,900	216.3	234.2		234.7	0.0027	5.9	2,816	302	0.28	2.25
3	41	14,900	218.0	230.0	225.9	230.2	0.0019	4.1	4,107	580	0.22	1.30
2	42	14,900	219.0	228.8	224.7	228.9	0.0017	3.2	5,365	1,032	0.20	0.84
1	43	14,900	212.2	228.1	222.7	228.3	0.0010	3.7	5,436	789	0.18	0.78