

HEC-RAS Plan: Plan 01 River: ANABE Reach: ANABE

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
ANABE	8439.18	PF 1	37.00	209.35	209.98	209.98	210.15	0.017553	1.82	20.33	60.88	1.01
ANABE	8439.18	PF 2	14.00	209.35	209.80	209.80	209.90	0.021902	1.38	10.13	54.10	1.02
ANABE	8400	PF 1	37.00	206.60	207.75	207.75	208.09	0.014263	2.58	14.33	21.60	1.01
ANABE	8400	PF 2	14.00	206.60	207.34	207.34	207.56	0.016639	2.06	6.78	16.05	1.01
ANABE	8300	PF 1	37.00	204.43	205.96	205.96	206.37	0.013487	2.87	12.90	15.71	1.01
ANABE	8300	PF 2	14.00	204.43	205.44	205.44	205.72	0.015591	2.33	6.01	11.14	1.01
ANABE	8200	PF 1	37.00	202.97	204.18		204.37	0.006905	1.97	18.81	24.77	0.72
ANABE	8200	PF 2	14.00	202.97	203.77		203.87	0.005916	1.41	9.96	19.36	0.63
ANABE	8100	PF 1	37.00	201.92	203.10	203.10	203.38	0.015413	2.31	16.02	30.38	1.02
ANABE	8100	PF 2	14.00	201.92	202.72	202.72	202.93	0.016892	2.01	6.95	17.32	1.02
ANABE	8000	PF 1	37.00	199.79	200.80	200.80	201.12	0.014504	2.51	14.72	23.41	1.01
ANABE	8000	PF 2	14.00	199.79	200.43	200.43	200.63	0.016589	2.00	7.00	17.41	1.01
ANABE	7900	PF 1	37.00	196.80	198.39	198.39	198.77	0.013793	2.74	13.50	17.85	1.01
ANABE	7900	PF 2	14.00	196.80	197.83	197.80	198.10	0.013861	2.32	6.04	10.28	0.96
ANABE	7800	PF 1	37.00	195.66	196.71	196.71	197.02	0.014691	2.46	15.01	24.88	1.01
ANABE	7800	PF 2	14.00	195.66	196.35	196.35	196.55	0.016922	1.97	7.12	18.43	1.01
ANABE	7700	PF 1	37.00	193.68	194.79	194.79	195.13	0.014174	2.59	14.29	21.35	1.01
ANABE	7700	PF 2	14.00	193.68	194.39	194.39	194.61	0.016497	2.07	6.76	15.84	1.01
ANABE	7600	PF 1	37.00	191.52	192.88	192.88	193.21	0.014898	2.53	14.63	23.43	1.02
ANABE	7600	PF 2	14.00	191.52	192.47	192.47	192.71	0.016514	2.17	6.46	14.04	1.02
ANABE	7500	PF 1	37.00	188.74	190.28	190.28	190.61	0.014979	2.55	14.53	23.11	1.02
ANABE	7500	PF 2	14.00	188.74	189.77	189.77	190.02	0.015441	2.25	6.23	12.16	1.00
ANABE	7400	PF 1	37.00	186.69	188.14	188.14	188.48	0.014169	2.60	14.26	21.15	1.01
ANABE	7400	PF 2	14.00	186.69	187.68	187.66	187.92	0.014397	2.17	6.45	12.62	0.97
ANABE	7300	PF 1	37.00	185.31	186.56	186.56	186.92	0.014156	2.66	13.89	19.82	1.02
ANABE	7300	PF 2	14.00	185.31	186.15	186.15	186.37	0.016478	2.11	6.63	15.08	1.02
ANABE	7200	PF 1	37.00	183.25	184.72	184.72	185.08	0.014351	2.65	13.98	20.30	1.02
ANABE	7200	PF 2	14.00	183.25	184.29	184.29	184.53	0.016462	2.16	6.47	14.11	1.02
ANABE	7100	PF 1	37.00	181.16	182.81	182.81	183.23	0.013653	2.90	12.77	15.35	1.01
ANABE	7100	PF 2	14.00	181.16	182.28	182.28	182.56	0.015257	2.35	5.96	10.69	1.00
ANABE	7000	PF 1	37.00	178.94	180.04	180.04	180.39	0.014083	2.62	14.10	20.51	1.01
ANABE	7000	PF 2	14.00	178.94	179.65	179.65	179.86	0.016496	2.04	6.86	16.47	1.01
ANABE	6900	PF 1	37.00	176.52	177.66	177.66	177.98	0.013851	2.51	14.73	22.51	0.99
ANABE	6900	PF 2	14.00	176.52	177.27	177.27	177.47	0.017221	2.00	7.01	17.86	1.02
ANABE	6800	PF 1	37.00	174.17	175.40	175.40	175.72	0.014107	2.53	14.60	22.42	1.00
ANABE	6800	PF 2	14.00	174.17	175.05	175.00	175.22	0.012456	1.85	7.59	17.09	0.88
ANABE	6700	PF 1	37.00	172.68	173.92	173.92	174.26	0.014353	2.61	14.18	21.02	1.01
ANABE	6700	PF 2	14.00	172.68	173.55	173.55	173.75	0.017507	2.00	7.01	18.03	1.02
ANABE	6600	PF 1	37.00	170.81	171.84	171.84	172.17	0.014194	2.54	14.56	22.44	1.01
ANABE	6600	PF 2	14.00	170.81	171.45	171.45	171.66	0.016448	2.03	6.89	16.60	1.01
ANABE	6500	PF 1	37.00	168.42	170.10	170.10	170.50	0.013534	2.81	13.16	16.57	1.01
ANABE	6500	PF 2	14.00	168.42	169.54	169.54	169.83	0.015214	2.38	5.87	10.32	1.01
ANABE	6400	PF 1	37.00	166.54	167.83	167.83	168.21	0.013598	2.72	13.60	18.18	1.00
ANABE	6400	PF 2	14.00	166.54	167.32	167.32	167.58	0.015158	2.27	6.17	11.77	1.00
ANABE	6300	PF 1	37.00	164.16	165.81	165.81	166.20	0.013848	2.75	13.47	17.78	1.01
ANABE	6300	PF 2	14.00	164.16	165.21	165.14	165.47	0.011304	2.26	6.20	9.40	0.89
ANABE	6200	PF 1	37.00	163.22	164.12	164.12	164.37	0.015568	2.23	16.63	33.61	1.01
ANABE	6200	PF 2	14.00	163.22	163.86	163.86	164.00	0.018643	1.67	8.38	29.81	1.01
ANABE	6100	PF 1	37.00	161.04	162.03	162.03	162.37	0.014115	2.58	14.31	21.40	1.01
ANABE	6100	PF 2	14.00	161.04	161.63	161.63	161.84	0.016406	2.05	6.83	16.21	1.01
ANABE	6000	PF 1	37.00	158.91	159.77	159.77	160.09	0.014267	2.52	14.70	23.04	1.01
ANABE	6000	PF 2	14.00	158.91	159.44	159.44	159.62	0.016774	1.87	7.50	20.85	0.99
ANABE	5900	PF 1	37.00	157.17	158.20	158.20	158.51	0.014379	2.50	14.82	23.71	1.01
ANABE	5900	PF 2	14.00	157.17	157.86	157.84	158.03	0.015116	1.86	7.53	19.50	0.96

HEC-RAS Plan: Plan 01 River: ANABE Reach: ANABE (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
ANABE	5800	PF 1	37.00	155.78	156.45	156.45	156.72	0.015147	2.31	16.05	30.08	1.01
ANABE	5800	PF 2	14.00	155.78	156.17	156.17	156.32	0.019297	1.73	8.07	27.87	1.03
ANABE	5700	PF 1	37.00	153.06	154.18	154.18	154.46	0.015458	2.35	15.74	29.05	1.02
ANABE	5700	PF 2	14.00	153.06	153.88	153.88	154.05	0.018698	1.81	7.73	24.39	1.03
ANABE	5600	PF 1	37.00	150.19	151.40	151.40	151.70	0.015055	2.43	15.20	26.09	1.02
ANABE	5600	PF 2	14.00	150.19	151.01	151.00	151.21	0.015346	1.97	7.12	17.08	0.97
ANABE	5500	PF 1	37.00	148.69	149.70	149.70	150.00	0.015051	2.39	15.48	27.36	1.01
ANABE	5500	PF 2	14.00	148.69	149.39	149.39	149.56	0.017557	1.84	7.59	22.25	1.01
ANABE	5400	PF 1	37.00	146.64	147.53	147.53	147.81	0.015132	2.36	15.70	28.46	1.01
ANABE	5400	PF 2	14.00	146.64	147.23	147.23	147.39	0.018481	1.78	7.84	25.09	1.02
ANABE	5300	PF 1	37.00	144.88	145.62	145.62	145.87	0.015784	2.19	16.86	35.21	1.01
ANABE	5300	PF 2	14.00	144.88	145.36	145.36	145.50	0.018820	1.69	8.27	29.13	1.01
ANABE	5200	PF 1	37.00	141.94	143.72	143.72	143.99	0.014956	2.30	16.12	29.78	1.00
ANABE	5200	PF 2	14.00	141.94	142.99	142.99	143.30	0.014627	2.46	5.68	9.17	1.00
ANABE	5100	PF 1	37.00	140.84	141.94	141.94	142.24	0.014339	2.42	15.28	25.52	1.00
ANABE	5100	PF 2	14.00	140.84	141.54	141.53	141.74	0.016038	1.99	7.02	17.12	0.99
ANABE	5000	PF 1	37.00	139.00	140.49	140.44	140.71	0.012562	2.11	17.58	32.69	0.92
ANABE	5000	PF 2	14.00	139.00	140.05	140.01	140.26	0.013674	2.01	6.95	14.58	0.93
ANABE	4900	PF 1	37.00	137.47	139.03	139.03	139.33	0.015292	2.44	15.14	26.03	1.02
ANABE	4900	PF 2	14.00	137.47	138.52	138.52	138.80	0.015513	2.34	5.97	10.97	1.01
ANABE	4800	PF 1	37.00	135.91	137.36	137.28	137.65	0.010441	2.39	15.48	20.58	0.88
ANABE	4800	PF 2	14.00	135.91	136.94	136.92	137.11	0.012349	1.83	7.66	17.34	0.88
ANABE	4700	PF 1	37.00	134.47	136.07	136.07	136.43	0.014407	2.66	13.93	20.10	1.02
ANABE	4700	PF 2	14.00	134.47	135.61	135.58	135.84	0.013033	2.12	6.62	12.41	0.93
ANABE	4600	PF 1	37.00	133.36	134.54	134.54	134.81	0.015768	2.31	16.03	30.86	1.02
ANABE	4600	PF 2	14.00	133.36	134.18	134.18	134.38	0.016478	1.98	7.06	17.61	1.00
ANABE	4500	PF 1	37.00	131.23	132.91		133.21	0.008466	2.46	15.07	16.28	0.81
ANABE	4500	PF 2	14.00	131.23	132.34		132.52	0.007205	1.85	7.58	11.13	0.71
ANABE	4400	PF 1	37.00	130.32	131.79	131.79	132.06	0.016323	2.28	16.21	32.45	1.03
ANABE	4400	PF 2	14.00	130.32	131.23	131.23	131.48	0.015624	2.21	6.32	12.68	1.00
ANABE	4300	PF 1	37.00	128.56	130.04	130.04	130.45	0.013951	2.84	13.01	16.48	1.02
ANABE	4300	PF 2	14.00	128.56	129.57	129.57	129.83	0.015858	2.26	6.20	12.26	1.01
ANABE	4200	PF 1	37.00	126.89	128.67	128.64	128.97	0.012631	2.43	15.20	22.64	0.95
ANABE	4200	PF 2	14.00	126.89	128.11	128.04	128.34	0.011243	2.14	6.55	10.75	0.87
ANABE	4100	PF 1	37.00	126.03	127.57	127.48	127.80	0.010422	2.16	17.16	26.79	0.86
ANABE	4100	PF 2	14.00	126.03	127.17		127.31	0.009110	1.66	8.45	17.68	0.76
ANABE	4000	PF 1	37.00	124.83	126.42	126.40	126.61	0.013526	1.92	19.31	43.80	0.92
ANABE	4000	PF 2	14.00	124.83	125.89	125.89	126.13	0.015778	2.16	6.47	13.63	1.00
ANABE	3900	PF 1	37.00	123.59	124.95	124.93	125.23	0.013808	2.37	15.60	26.10	0.98
ANABE	3900	PF 2	14.00	123.59	124.56	124.50	124.74	0.011933	1.86	7.51	16.14	0.87
ANABE	3800	PF 1	37.00	122.97	123.86		124.00	0.010277	1.65	22.41	51.90	0.80
ANABE	3800	PF 2	14.00	122.97	123.68	123.60	123.74	0.007984	1.07	13.05	47.75	0.66
ANABE	3700	PF 1	51.00	122.00	122.96	122.86	123.10	0.008314	1.66	30.85	63.62	0.74
ANABE	3700	PF 2	20.00	122.00	122.68	122.61	122.77	0.011025	1.35	14.83	49.11	0.78
ANABE	3600	PF 1	51.00	120.06	121.65	121.65	121.99	0.015018	2.57	19.82	31.22	1.03
ANABE	3600	PF 2	20.00	120.06	121.32	121.31	121.50	0.014320	1.89	10.58	25.51	0.94
ANABE	3500	PF 1	51.00	118.91	120.12	120.12	120.45	0.015153	2.55	20.02	32.06	1.03
ANABE	3500	PF 2	20.00	118.91	119.74	119.74	119.95	0.016909	2.04	9.82	23.93	1.02
ANABE	3400	PF 1	51.00	116.52	118.66		118.84	0.007007	1.86	27.49	39.49	0.71
ANABE	3400	PF 2	20.00	116.52	118.09	118.05	118.31	0.014292	2.09	9.58	19.63	0.95
ANABE	3300	PF 1	51.00	115.91	117.60	117.56	117.93	0.011923	2.55	20.00	26.64	0.94
ANABE	3300	PF 2	20.00	115.91	117.06		117.26	0.007891	1.99	10.07	14.27	0.75
ANABE	3200	PF 1	51.00	115.44	116.74		116.95	0.007686	2.03	25.16	34.29	0.76

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ANABE	3200	PF 2	20.00	115.44	116.41	116.29	116.51	0.006669	1.39	14.39	31.13	0.65
ANABE	3100	PF 1	51.00	114.36	115.59	115.59	115.86	0.015810	2.32	21.99	42.10	1.02
ANABE	3100	PF 2	20.00	114.36	115.28	115.28	115.46	0.018646	1.87	10.72	32.21	1.03
ANABE	3000	PF 1	51.00	112.80	114.07		114.29	0.009501	2.10	24.34	37.14	0.83
ANABE	3000	PF 2	20.00	112.80	113.57	113.56	113.79	0.014949	2.05	9.77	21.70	0.97
ANABE	2900	PF 1	51.00	111.26	113.12		113.42	0.007939	2.42	21.09	22.44	0.80
ANABE	2900	PF 2	20.00	111.26	112.56		112.74	0.007637	1.91	10.50	15.51	0.74
ANABE	2800	PF 1	51.00	110.48	112.39		112.58	0.008158	1.93	26.49	40.73	0.76
ANABE	2800	PF 2	20.00	110.48	111.82	111.65	112.00	0.007259	1.90	10.50	14.89	0.72
ANABE	2700	PF 1	51.00	109.78	111.54		111.72	0.009011	1.90	26.80	45.30	0.79
ANABE	2700	PF 2	20.00	109.78	111.21		111.31	0.006179	1.41	14.20	28.34	0.64
ANABE	2600	PF 1	51.00	109.40	110.50	110.44	110.72	0.011132	2.07	24.60	42.98	0.87
ANABE	2600	PF 2	20.00	109.40	110.16	110.16	110.33	0.017471	1.80	11.08	33.46	1.00
ANABE	2500	PF 1	51.00	107.43	109.52	109.35	109.69	0.009400	1.81	28.24	53.04	0.79
ANABE	2500	PF 2	20.00	107.43	108.92	108.76	109.11	0.008133	1.92	10.43	15.79	0.75
ANABE	2400	PF 1	51.00	107.02	108.20	108.20	108.52	0.014437	2.54	20.11	31.49	1.01
ANABE	2400	PF 2	20.00	107.02	107.77	107.77	108.01	0.015453	2.18	9.18	19.01	1.00
ANABE	2300	PF 1	51.00	105.19	107.36		107.43	0.002590	1.18	43.70	64.42	0.44
ANABE	2300	PF 2	20.00	105.19	106.80		106.87	0.002930	1.19	16.79	24.49	0.46
ANABE	2200	PF 1	51.00	105.14	106.66	106.66	106.90	0.014930	2.18	23.35	46.74	0.99
ANABE	2200	PF 2	20.00	105.14	106.03	106.02	106.31	0.013539	2.33	8.57	14.35	0.96
ANABE	2100	PF 1	51.00	103.85	105.18		105.50	0.009265	2.49	20.44	23.32	0.85
ANABE	2100	PF 2	20.00	103.85	104.61	104.61	104.87	0.015257	2.24	8.93	17.50	1.00
ANABE	2000	PF 1	51.00	102.60	104.97		105.06	0.001944	1.35	37.90	42.84	0.46
ANABE	2000	PF 2	20.00	102.60	104.43		104.48	0.001116	1.03	19.43	21.52	0.35
ANABE	1900	PF 1	51.00	103.23	104.37	104.37	104.66	0.010741	2.41	21.15	36.16	1.01
ANABE	1900	PF 2	20.00	103.23	104.07	104.02	104.22	0.009140	1.74	11.51	28.55	0.87
ANABE	1800	PF 1	51.00	102.16	103.28	103.28	103.53	0.011500	2.22	22.99	46.88	1.01
ANABE	1800	PF 2	20.00	102.16	102.95	102.95	103.13	0.013190	1.88	10.64	30.79	1.02
ANABE	1700	PF 1	51.00	100.69	101.91	101.88	102.19	0.008146	2.45	22.33	33.95	0.91
ANABE	1700	PF 2	20.00	100.69	101.53	101.52	101.73	0.009675	2.00	10.69	27.60	0.92
ANABE	1600	PF 1	51.00	99.10	100.94	100.94	101.32	0.009430	2.73	18.85	27.34	0.98
ANABE	1600	PF 2	20.00	99.10	100.45	100.44	100.71	0.010516	2.25	8.89	16.38	0.97
ANABE	1500	PF 1	51.00	98.55	99.82	99.82	100.21	0.009881	2.78	18.32	23.63	1.01
ANABE	1500	PF 2	20.00	98.55	99.35	99.35	99.62	0.011594	2.27	8.82	17.47	1.02
ANABE	1400	PF 1	51.00	97.55	98.79	98.79	99.22	0.005285	2.89	17.65	21.24	1.01
ANABE	1400	PF 2	20.00	97.55	98.37	98.37	98.62	0.006219	2.22	9.01	18.39	1.01
ANABE	1300	PF 1	51.00	96.69	98.18		98.46	0.002607	2.32	22.00	21.72	0.74
ANABE	1300	PF 2	20.00	96.69	97.61		97.79	0.003528	1.88	10.62	18.08	0.78
ANABE	1200	PF 1	51.00	96.03	97.62	97.62	98.12	0.003905	3.19	17.32	18.82	0.92
ANABE	1200	PF 2	20.00	96.03	96.98	96.98	97.33	0.005643	2.62	7.62	11.03	1.01
ANABE	1100	PF 1	51.00	95.32	96.71	96.71	97.07	0.005397	2.64	19.30	27.25	1.00
ANABE	1100	PF 2	20.00	95.32	96.25	96.25	96.50	0.006188	2.24	8.92	17.88	1.01
ANABE	1000	PF 1	51.00	94.55	95.97	95.97	96.41	0.005183	2.93	17.42	20.36	1.01
ANABE	1000	PF 2	20.00	94.55	95.45	95.45	95.74	0.005889	2.39	8.38	14.69	1.01
ANABE	900	PF 1	51.00	93.82	95.17	95.17	95.60	0.005112	2.89	17.63	20.74	1.00
ANABE	900	PF 2	20.00	93.82	94.64	94.64	94.94	0.005875	2.39	8.36	14.55	1.01
ANABE	800	PF 1	51.00	93.16	94.55	94.55	95.00	0.005134	2.96	17.24	19.64	1.01
ANABE	800	PF 2	20.00	93.16	94.32		94.44	0.001754	1.55	12.90	17.33	0.57
ANABE	700	PF 1	51.00	92.80	94.08	94.08	94.26	0.004949	2.25	32.35	83.57	0.93
ANABE	700	PF 2	20.00	92.80	93.89	93.89	94.13	0.006246	2.14	9.35	19.99	1.00
ANABE	600	PF 1	51.00	91.20	93.25	93.25	93.45	0.002715	2.56	36.45	78.43	0.75
ANABE	600	PF 2	20.00	91.20	93.01	93.01	93.15	0.001947	1.86	17.77	75.29	0.61

HEC-RAS Plan: Plan 01 River: ANABE Reach: ANABE (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
ANABE	500	PF 1	51.00	90.50	92.40	92.40	92.69	0.002637	2.67	28.88	53.56	0.75
ANABE	500	PF 2	20.00	90.50	91.73	91.73	92.12	0.005690	2.74	7.31	9.76	1.01
ANABE	400	PF 1	51.00	89.15	91.05	91.05	91.66	0.004903	3.44	14.81	12.40	1.01
ANABE	400	PF 2	20.00	89.15	90.34	90.34	90.74	0.005565	2.79	7.16	9.15	1.01
ANABE	300	PF 1	51.00	88.20	89.75	89.75	90.32	0.004970	3.34	15.26	13.64	1.01
ANABE	300	PF 2	20.00	88.20	89.22		89.48	0.003444	2.27	8.82	10.79	0.80
ANABE	200	PF 1	51.00	87.37	89.31	89.31	89.81	0.004178	3.26	17.37	17.63	0.94
ANABE	200	PF 2	20.00	87.37	88.69	88.69	89.05	0.005439	2.64	7.64	12.38	0.99
ANABE	100	PF 1	51.00	86.27	88.26	88.26	88.81	0.004749	3.27	15.84	15.87	1.00
ANABE	100	PF 2	20.00	86.27	87.69	87.69	88.03	0.005838	2.59	7.73	11.65	1.01
ANABE	0	PF 1	51.00	85.81	86.81	86.81	87.17	0.004991	2.69	19.73	31.55	0.98
ANABE	0	PF 2	20.00	85.81	86.41	86.41	86.63	0.006261	2.08	9.63	21.82	1.00