

HEC-RAS Plan: Plan 03 River: Eynat Reach: Alignment - 1

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
Alignment - 1	7031.11	100Yr	25.00	60.08	60.97	60.97	61.13	0.008986	2.59	22.67	59.39	0.89
Alignment - 1	7031.11	10Yr	11.00	60.08	60.75	60.75	60.89	0.008759	2.09	10.97	40.12	0.84
Alignment - 1	7000	100Yr	25.00	59.34	59.74	59.92	60.37	0.147825	4.80	9.58	53.05	2.97
Alignment - 1	7000	10Yr	11.00	59.34	59.64	59.77	60.13	0.173294	3.98	4.88	41.92	3.01
Alignment - 1	6900	100Yr	25.00	56.40	56.76	56.76	56.87	0.018909	1.85	22.25	102.70	1.09
Alignment - 1	6900	10Yr	11.00	56.40	56.65	56.65	56.73	0.021001	1.44	11.93	89.20	1.06
Alignment - 1	6800	100Yr	25.00	53.35	53.77	53.87	54.10	0.043602	2.77	13.60	89.51	1.64
Alignment - 1	6800	10Yr	11.00	53.35	53.68	53.76	53.90	0.039703	2.09	6.07	50.58	1.48
Alignment - 1	6700	100Yr	25.00	51.56	52.10	52.10	52.25	0.017173	1.92	17.06	58.32	1.06
Alignment - 1	6700	10Yr	11.00	51.56	51.98	51.97	52.06	0.017211	1.43	9.87	53.89	0.98
Alignment - 1	6600	100Yr	25.00	49.70	50.45	50.47	50.67	0.014492	2.11	12.52	43.09	1.01
Alignment - 1	6600	10Yr	11.00	49.70	50.25	50.24	50.39	0.016201	1.66	6.63	23.48	1.00
Alignment - 1	6500	100Yr	25.00	48.42	48.97	48.98	49.16	0.015518	2.00	13.47	43.75	1.03
Alignment - 1	6500	10Yr	11.00	48.42	48.83	48.81	48.93	0.012978	1.38	8.12	35.85	0.88
Alignment - 1	6400	100Yr	25.00	46.92	47.72	47.72	47.89	0.011075	1.92	17.34	56.63	0.90
Alignment - 1	6400	10Yr	11.00	46.92	47.52	47.52	47.65	0.012498	1.63	7.38	39.16	0.90
Alignment - 1	6300	100Yr	25.00	45.64	46.47	46.43	46.63	0.009335	1.80	15.64	50.94	0.83
Alignment - 1	6300	10Yr	11.00	45.64	46.26	46.21	46.36	0.009962	1.40	7.96	26.80	0.80
Alignment - 1	6200	100Yr	25.00	44.67	45.42	45.41	45.58	0.011848	1.89	17.45	64.45	0.92
Alignment - 1	6200	10Yr	11.00	44.67	45.26	45.23	45.36	0.010033	1.38	9.29	42.34	0.80
Alignment - 1	6100	100Yr	25.00	43.43	44.15	44.15	44.35	0.012652	1.99	14.00	42.15	0.95
Alignment - 1	6100	10Yr	11.00	43.43	43.94	43.94	44.08	0.016617	1.66	6.71	26.55	1.01
Alignment - 1	6000	100Yr	25.00	42.44	43.08	42.97	43.15	0.005366	1.38	28.30	80.10	0.63
Alignment - 1	6000	10Yr	11.00	42.44	42.91	42.83	42.96	0.005494	1.06	15.61	71.11	0.59
Alignment - 1	5907.87	100Yr	25.00	41.69	42.35	42.28	42.43	0.012144	1.70	26.21	97.09	0.90
Alignment - 1	5907.87	10Yr	11.00	41.69	42.22	42.18	42.27	0.010711	1.29	14.46	71.16	0.80
Alignment - 1	5800	100Yr	25.00	40.41	40.82	40.82	40.97	0.015014	1.72	15.07	52.80	0.98
Alignment - 1	5800	10Yr	11.00	40.41	40.68	40.68	40.77	0.018574	1.37	8.12	44.52	1.00
Alignment - 1	5700	100Yr	25.00	38.45	39.64	39.59	39.85	0.008599	2.04	13.61	40.12	0.82
Alignment - 1	5700	10Yr	11.00	38.45	39.34	39.21	39.46	0.007079	1.59	6.91	13.87	0.72
Alignment - 1	5600	100Yr	25.00	37.84	38.61	38.61	38.82	0.012516	2.04	13.21	41.39	0.95
Alignment - 1	5600	10Yr	11.00	37.84	38.42	38.39	38.54	0.012442	1.53	7.21	23.74	0.88
Alignment - 1	5500	100Yr	25.00	37.20	37.89	37.75	37.95	0.004023	1.34	33.10	99.26	0.56
Alignment - 1	5500	10Yr	11.00	37.20	37.67		37.72	0.005537	1.15	14.80	66.44	0.61
Alignment - 1	5400	100Yr	25.00	36.45	37.27	37.25	37.41	0.007344	1.75	19.85	95.11	0.75
Alignment - 1	5400	10Yr	11.00	36.45	37.11	37.00	37.18	0.005327	1.19	10.34	50.32	0.60
Alignment - 1	5300	100Yr	25.00	35.84	36.31	36.30	36.43	0.013407	1.56	16.79	65.82	0.91
Alignment - 1	5300	10Yr	11.00	35.84	36.16	36.16	36.25	0.019656	1.34	8.22	46.45	1.02
Alignment - 1	5200	100Yr	25.00	34.67	35.44	35.34	35.56	0.006091	1.70	21.21	58.59	0.69
Alignment - 1	5200	10Yr	11.00	34.67	35.25	35.16	35.31	0.005064	1.20	11.65	42.27	0.59
Alignment - 1	5100	100Yr	25.00	33.85	34.47	34.47	34.64	0.015228	2.01	15.50	49.60	1.02
Alignment - 1	5100	10Yr	11.00	33.85	34.30	34.30	34.41	0.019918	1.59	8.13	38.85	1.07
Alignment - 1	5000	100Yr	25.00	32.93	33.80	33.53	33.84	0.001788	1.03	37.46	90.14	0.39
Alignment - 1	5000	10Yr	11.00	32.93	33.50	33.35	33.54	0.002931	0.93	14.61	52.12	0.45
Alignment - 1	4900	100Yr	25.00	31.78	33.11	33.11	33.43	0.012853	2.52	9.92	15.57	1.01
Alignment - 1	4900	10Yr	11.00	31.78	32.72	32.72	32.97	0.014289	2.19	5.01	10.46	1.01
Alignment - 1	4800	100Yr	25.00	30.91	31.82	31.74	31.95	0.005638	1.63	20.34	65.23	0.67
Alignment - 1	4800	10Yr	11.00	30.91	31.55	31.49	31.66	0.008884	1.41	7.89	26.02	0.76
Alignment - 1	4700	100Yr	25.00	30.30	31.54	31.19	31.60	0.002179	1.09	24.50	54.57	0.42
Alignment - 1	4700	10Yr	11.00	30.30	31.29	30.94	31.32	0.001594	0.75	14.66	29.95	0.34
Alignment - 1	4614.45	100Yr	25.00	30.61	31.03	31.03	31.19	0.015380	1.83	15.27	50.39	1.00
Alignment - 1	4614.45	10Yr	11.00	30.61	30.89	30.89	30.99	0.018028	1.42	8.49	45.23	1.00
Alignment - 1	4500	100Yr	25.00	29.05	30.05	29.86	30.14	0.004519	1.35	20.29	62.20	0.59
Alignment - 1	4500	10Yr	11.00	29.05	29.84	29.60	29.88	0.003224	0.95	11.59	28.22	0.47
Alignment - 1	4400	100Yr	25.00	28.74	29.45	29.39	29.53	0.008488	1.22	20.66	74.37	0.72
Alignment - 1	4400	10Yr	11.00	28.74	29.26	29.22	29.33	0.011156	1.19	9.21	40.42	0.80
Alignment - 1	4300	100Yr	25.00	28.16	29.01	28.78	29.05	0.002894	1.25	41.33	110.35	0.49
Alignment - 1	4300	10Yr	11.00	28.16	28.80	28.65	28.82	0.002810	0.96	21.08	73.62	0.45

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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
Alignment - 1	4200	100Yr	25.00	27.65	28.32	28.32	28.47	0.016026	1.91	16.83	55.69	1.03
Alignment - 1	4200	10Yr	11.00	27.65	28.18	28.18	28.28	0.014541	1.46	9.70	49.67	0.93
Alignment - 1	4100	100Yr	25.00	26.47	28.08	27.39	28.11	0.000220	0.73	52.95	103.26	0.23
Alignment - 1	4100	10Yr	11.00	26.47	27.37	27.12	27.43	0.001061	1.00	10.98	22.57	0.46
Alignment - 1	4000	100Yr	25.00	26.04	27.53	27.43	28.01	0.002256	3.05	8.19	6.76	0.89
Alignment - 1	4000	10Yr	11.00	26.04	26.97	26.88	27.25	0.002182	2.37	4.63	5.79	0.85
Alignment - 1	3900	100Yr	25.00	25.80	27.19	27.19	27.75	0.002857	3.29	7.59	6.89	1.00
Alignment - 1	3900	10Yr	11.00	25.80	26.68	26.65	27.01	0.002655	2.53	4.35	5.83	0.94
Alignment - 1	3800	100Yr	25.00	25.60	26.72	26.93	27.37	0.004997	3.57	7.00	9.37	1.32
Alignment - 1	3800	10Yr	11.00	25.60	26.41	26.41	26.72	0.003033	2.45	4.48	7.29	1.00
Alignment - 1	3700	100Yr	25.00	23.59	24.43	24.89	26.15	0.042572	5.81	4.30	10.01	2.83
Alignment - 1	3700	10Yr	11.00	23.59	24.16	24.51	25.76	0.069793	5.61	1.96	6.98	3.38
Alignment - 1	3600	100Yr	25.00	23.00	25.19	24.22	25.21	0.000206	0.70	65.86	131.05	0.23
Alignment - 1	3600	10Yr	11.00	23.00	24.82	23.78	24.83	0.000182	0.54	29.03	57.46	0.20
Alignment - 1	3500	100Yr	25.00	23.71	24.89	24.84	25.12	0.010088	2.22	13.71	34.06	0.89
Alignment - 1	3500	10Yr	11.00	23.71	24.63	24.56	24.77	0.008535	1.66	7.43	19.52	0.78
Alignment - 1	3400	100Yr	25.00	23.15	23.74	23.74	23.88	0.014951	1.96	18.60	63.76	1.01
Alignment - 1	3400	10Yr	11.00	23.15	23.58	23.58	23.68	0.013970	1.57	9.82	48.44	0.93
Alignment - 1	3300	100Yr	25.00	21.29	22.68	22.12	22.70	0.000556	0.64	46.14	138.71	0.22
Alignment - 1	3300	10Yr	11.00	21.29	22.22	21.90	22.24	0.001278	0.63	19.54	103.93	0.30
Alignment - 1	3205.81	100Yr	25.00	20.82	22.66	21.78	22.67	0.000125	0.44	101.83	192.18	0.12
Alignment - 1	3205.81	10Yr	11.00	20.82	22.21	21.46	22.21	0.000125	0.35	56.47	182.18	0.11
Alignment - 1	3100	100Yr	25.00	18.98	22.66	19.92	22.67	0.000012	0.21	135.27	195.25	0.04
Alignment - 1	3100	10Yr	11.00	18.98	22.21	19.67	22.21	0.000004	0.11	109.21	189.80	0.02
Alignment - 1	3000	100Yr	25.00	21.12	22.31	22.31	22.63	0.012528	2.51	9.95	133.23	1.00
Alignment - 1	3000	10Yr	11.00	21.12	21.96	21.96	22.18	0.014098	2.11	5.21	123.50	1.00
Alignment - 1	2900	100Yr	25.00	19.68	21.83	20.77	21.85	0.000342	0.67	38.80	78.63	0.19
Alignment - 1	2900	10Yr	11.00	19.68	21.43	20.46	21.44	0.000201	0.42	26.81	72.78	0.14
Alignment - 1	2800	100Yr	25.00	20.34	21.84		21.84	0.000007	0.08	257.30	82.74	0.02
Alignment - 1	2800	10Yr	11.00	20.34	21.43		21.43	0.000002	0.03	224.07	81.11	0.01
Alignment - 1	2700	100Yr	25.00	20.15	21.84		21.84	0.000001	0.03	554.19	139.69	0.01
Alignment - 1	2700	10Yr	11.00	20.15	21.43		21.43	0.000000	0.01	497.77	138.37	0.01
Alignment - 1	2600	100Yr	25.00	20.34	21.84		21.84	0.000000	0.02	932.06	208.18	0.01
Alignment - 1	2600	10Yr	11.00	20.34	21.43		21.43	0.000000	0.01	847.87	206.75	0.00
Alignment - 1	2500	100Yr	25.00	20.69	21.74	21.37	21.83	0.002527	1.39	20.17	205.60	0.47
Alignment - 1	2500	10Yr	11.00	20.69	21.38	21.13	21.43	0.002539	1.03	12.04	204.30	0.44
Alignment - 1	2400	100Yr	25.00	20.29	21.38	21.13	21.51	0.003921	1.70	16.14	174.49	0.58
Alignment - 1	2400	10Yr	11.00	20.29	21.03	20.84	21.11	0.004093	1.29	9.20	167.35	0.56
Alignment - 1	2300	100Yr	25.00	19.53	21.06	20.73	21.17	0.002896	1.49	18.03	181.13	0.50
Alignment - 1	2300	10Yr	11.00	19.53	20.74	20.38	20.79	0.002386	1.05	10.63	178.56	0.43
Alignment - 1	2200	100Yr	25.00	19.61	20.38	20.38	20.61	0.014164	2.13	11.75	180.20	1.00
Alignment - 1	2200	10Yr	11.00	19.61	20.13	20.13	20.29	0.015747	1.78	6.17	172.74	1.00
Alignment - 1	2108.18	100Yr	25.00	17.36	19.18	18.73	19.30	0.002857	1.52	16.46	17.72	0.50
Alignment - 1	2108.18	10Yr	11.00	17.36	18.34	18.34	18.60	0.013871	2.22	4.95	9.88	1.00
Alignment - 1	2049.2	100Yr	25.00	16.61	19.26		19.27	0.000006	0.11	237.85	143.80	0.03
Alignment - 1	2049.2	10Yr	11.00	16.61	18.37	16.83	18.37	0.000009	0.09	118.48	112.84	0.03
Alignment - 1	1900	100Yr	25.00	16.00	19.26		19.26	0.000004	0.10	252.37	129.85	0.02
Alignment - 1	1900	10Yr	11.00	16.00	18.37		18.37	0.000004	0.08	143.42	104.67	0.02
Alignment - 1	1800	100Yr	25.00	16.05	19.26		19.26	0.000083	0.33	84.45	87.75	0.09
Alignment - 1	1800	10Yr	11.00	16.05	18.36		18.37	0.000159	0.35	31.88	36.74	0.12
Alignment - 1	1711.19	100Yr	25.00	15.99	19.26		19.26	0.000009	0.14	174.33	95.09	0.03
Alignment - 1	1711.19	10Yr	11.00	15.99	18.37		18.37	0.000007	0.10	105.83	68.17	0.03
Alignment - 1	1597.03	100Yr	25.00	17.18	19.25		19.26	0.000062	0.27	97.94	101.88	0.08
Alignment - 1	1597.03	10Yr	11.00	17.18	18.36		18.36	0.000237	0.33	33.24	55.46	0.14
Alignment - 1	1500	100Yr	25.00	17.40	19.24		19.25	0.000215	0.49	76.18	88.84	0.14
Alignment - 1	1500	10Yr	11.00	17.40	18.22		18.29	0.005882	1.30	11.38	38.22	0.64
Alignment - 1	1400	100Yr	25.00	16.12	19.24	17.01	19.24	0.000032	0.24	102.78	59.92	0.06
Alignment - 1	1400	10Yr	11.00	16.12	18.26	16.74	18.26	0.000039	0.21	51.70	43.03	0.06

HEC-RAS Plan: Plan 03 River: Eynat Reach: Alignment - 1 (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
Alignment - 1	1300	100Yr	25.00	16.85	19.23		19.23	0.000063	0.28	90.56	73.51	0.08
Alignment - 1	1300	10Yr	11.00	16.85	18.25		18.25	0.000164	0.33	33.48	42.62	0.12
Alignment - 1	1177.85	100Yr	25.00	15.78	19.23		19.23	0.000005	0.12	209.81	114.02	0.03
Alignment - 1	1177.85	10Yr	11.00	15.78	18.25		18.25	0.000005	0.09	124.36	76.42	0.02
Alignment - 1	1100	100Yr	25.00	15.95	19.23	16.92	19.23	0.000018	0.20	123.82	62.27	0.05
Alignment - 1	1100	10Yr	11.00	15.95	18.25	16.68	18.25	0.000020	0.16	67.86	51.20	0.04
Alignment - 1	1006.51	100Yr	25.00	15.78	19.23	16.70	19.23	0.000016	0.20	225.18	213.55	0.04
Alignment - 1	1006.51	10Yr	11.00	15.78	18.24	16.35	18.24	0.000048	0.23	49.32	76.16	0.07
Alignment - 1	900	100Yr	25.00	16.29	19.23	17.04	19.23	0.000023	0.20	126.23	77.70	0.05
Alignment - 1	900	10Yr	11.00	16.29	18.24	16.80	18.24	0.000042	0.19	57.24	58.48	0.06
Alignment - 1	800	100Yr	25.00	16.45	19.22	17.39	19.22	0.000057	0.31	81.49	52.18	0.08
Alignment - 1	800	10Yr	11.00	16.45	18.23	17.12	18.23	0.000095	0.30	37.25	37.15	0.09
Alignment - 1	727.52	100Yr	25.00	15.79	19.22		19.22	0.000006	0.13	246.18	203.59	0.03
Alignment - 1	727.52	10Yr	11.00	15.79	18.23		18.23	0.000009	0.11	105.65	104.52	0.03
Alignment - 1	600	100Yr	25.00	15.78	19.21	16.88	19.22	0.000088	0.44	59.35	46.81	0.10
Alignment - 1	600	10Yr	11.00	15.78	18.22	16.49	18.23	0.000082	0.35	31.16	20.55	0.09
Alignment - 1	500	100Yr	25.00	16.48	19.20		19.21	0.000057	0.30	83.06	63.56	0.08
Alignment - 1	500	10Yr	11.00	16.48	18.21		18.22	0.000095	0.30	37.07	36.42	0.09
Alignment - 1	385.93	100Yr	25.00	16.29	19.20	17.35	19.20	0.000052	0.32	131.87	120.05	0.08
Alignment - 1	385.93	10Yr	11.00	16.29	18.19	17.01	18.20	0.000190	0.46	24.11	49.84	0.13
Alignment - 1	285.22	100Yr	25.00	16.85	19.18		19.19	0.000151	0.50	58.60	64.58	0.13
Alignment - 1	285.22	10Yr	11.00	16.85	18.15		18.17	0.000707	0.63	17.53	25.11	0.24
Alignment - 1	206.53	100Yr	25.00	16.60	19.18		19.19	0.000046	0.26	129.40	168.14	0.07
Alignment - 1	206.53	10Yr	11.00	16.60	18.12		18.13	0.000349	0.41	26.63	42.22	0.17
Alignment - 1	100	100Yr	25.00	16.59	19.17		19.18	0.000106	0.44	81.88	95.91	0.11
Alignment - 1	100	10Yr	11.00	16.59	18.06		18.08	0.000579	0.61	18.62	32.11	0.22
Alignment - 1	0	100Yr	25.00	16.77	19.17	17.53	19.17	0.000020	0.19	192.51	169.40	0.05
Alignment - 1	0	10Yr	11.00	16.77	18.04	17.32	18.04	0.000178	0.31	35.75	53.44	0.12