

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
afra02-08	10	q20	102.10	336.45	338.56	338.56	339.34	0.011794	3.90	26.15	16.76	1.00
afra02-08	10	q30	108.40	336.45	338.61	338.61	339.44	0.012209	4.03	26.89	16.83	1.02
afra02-08	10	q200	138.19	336.45	338.93	338.93	339.86	0.011329	4.27	32.39	17.38	1.00
afra02-08	10	q500	170.76	336.45	339.22	339.22	340.28	0.011153	4.55	37.56	17.93	1.00
afra02-08	9	q20	102.10	328.76	330.53	331.07	332.34	0.054524	5.95	17.16	19.13	2.01
afra02-08	9	q30	108.40	328.76	330.58	331.14	332.40	0.051482	5.97	18.15	19.24	1.96
afra02-08	9	q200	138.19	328.76	330.71	331.39	332.98	0.055211	6.67	20.71	19.52	2.07
afra02-08	9	q500	170.76	328.76	330.87	331.66	333.49	0.054336	7.16	23.85	19.86	2.09
afra02-08	8	q20	102.10	326.93	330.01	329.82	330.75	0.008927	3.82	26.70	13.90	0.88
afra02-08	8	q30	108.40	326.93	329.91	329.91	330.84	0.011562	4.28	25.33	13.53	1.00
afra02-08	8	q200	138.19	326.93	330.29	330.29	331.32	0.011248	4.49	30.76	14.95	1.00
afra02-08	8	q500	170.76	326.93	330.63	330.63	331.77	0.010915	4.75	35.97	15.70	1.00
afra02-08	7	q20	102.10	324.86	328.06	328.06	328.95	0.011832	4.19	24.35	13.50	1.00
afra02-08	7	q30	108.40	324.86	328.52	328.14	329.14	0.007041	3.49	31.07	15.43	0.78
afra02-08	7	q200	138.19	324.86	329.10	328.53	329.69	0.005577	3.40	40.70	19.70	0.72
afra02-08	7	q500	170.76	324.86	329.85	328.89	330.26	0.002913	2.94	66.90	45.69	0.54
afra02-08	6.8	q20	102.10	325.24	328.08	327.76	328.72	0.007311	3.57	28.62	14.13	0.80
afra02-08	6.8	q30	108.40	325.24	328.53	327.85	329.01	0.004546	3.08	35.19	14.76	0.64
afra02-08	6.8	q200	138.19	325.24	329.08	328.20	329.60	0.004025	3.17	43.57	15.43	0.60
afra02-08	6.8	q500	170.76	325.24	329.68	328.54	330.20	0.003862	3.20	53.41	18.06	0.59
afra02-08	6.5		Bridge									
afra02-08	6.3	q20	102.10	325.24	327.52	327.77	328.72	0.017832	4.85	21.06	13.13	1.22
afra02-08	6.3	q30	108.40	325.24	327.66	327.85	328.80	0.015837	4.74	22.85	13.37	1.16
afra02-08	6.3	q200	138.19	325.24	327.91	328.20	329.32	0.017158	5.26	26.27	13.82	1.22
afra02-08	6.3	q500	170.76	325.24	328.15	328.54	329.83	0.018328	5.74	29.73	14.27	1.27
afra02-08	5	q20	102.10	322.32	323.13	324.05	327.41	0.175466	9.17	11.13	15.29	3.43
afra02-08	5	q30	108.40	322.32	323.17	324.12	327.50	0.166219	9.23	11.75	15.30	3.36
afra02-08	5	q200	138.19	322.32	323.34	324.44	328.00	0.139165	9.56	14.46	15.35	3.14
afra02-08	5	q500	170.76	322.32	323.52	324.72	328.49	0.127517	9.88	17.28	16.16	3.05
afra02-08	4.8	q20	102.10	320.95	324.17	323.65	324.75	0.006193	3.38	30.24	13.84	0.73
afra02-08	4.8	q30	108.40	320.95	324.27	323.74	324.87	0.006199	3.43	31.56	14.07	0.73
afra02-08	4.8	q200	138.19	320.95	324.67	324.15	325.37	0.006268	3.69	37.44	15.00	0.75
afra02-08	4.8	q500	170.76	320.95	325.06	324.52	325.85	0.006356	3.93	43.43	15.89	0.76
afra02-08	4.5		Bridge									
afra02-08	4.3	q20	102.10	320.95	324.02	323.65	324.69	0.007523	3.62	28.18	13.46	0.80
afra02-08	4.3	q30	108.40	320.95	324.11	323.74	324.80	0.007522	3.68	29.43	13.69	0.80
afra02-08	4.3	q200	138.19	320.95	324.49	324.15	325.30	0.007661	3.97	34.82	14.59	0.82
afra02-08	4.3	q500	170.76	320.95	324.85	324.52	325.77	0.007925	4.26	40.09	15.40	0.84
afra02-08	4	q20	102.10	320.43	323.46	323.13	324.11	0.007369	3.57	28.58	13.99	0.80
afra02-08	4	q30	108.40	320.43	323.56	323.22	324.23	0.007270	3.62	29.98	14.24	0.80
afra02-08	4	q200	138.19	320.43	323.93	323.59	324.71	0.007413	3.90	35.45	15.17	0.81
afra02-08	4	q500	170.76	320.43	324.26	323.95	325.16	0.007787	4.22	40.44	15.94	0.84
afra02-08	3.8	q20	102.10	320.44	323.44	322.96	323.93	0.005540	3.08	33.17	17.04	0.70
afra02-08	3.8	q30	108.40	320.44	323.55	323.04	324.04	0.005389	3.10	35.00	17.43	0.70
afra02-08	3.8	q200	138.19	320.44	323.95	323.38	324.50	0.005044	3.28	42.18	18.44	0.69
afra02-08	3.8	q500	170.76	320.44	324.30	323.70	324.93	0.004942	3.52	48.71	19.71	0.69
afra02-08	3.5		Bridge									
afra02-08	3.3	q20	102.10	320.44	323.18	322.96	323.82	0.008139	3.54	28.84	16.08	0.84
afra02-08	3.3	q30	108.40	320.44	323.09	323.04	323.89	0.010627	3.96	27.35	15.74	0.96
afra02-08	3.3	q200	138.19	320.44	323.38	323.38	324.33	0.011166	4.31	32.04	16.79	1.00
afra02-08	3.3	q500	170.76	320.44	323.70	323.70	324.75	0.010877	4.54	37.64	17.87	1.00
afra02-08	3	q20	102.10	320.67	322.90	322.90	323.68	0.011265	3.91	26.09	16.58	1.00
afra02-08	3	q30	108.40	320.67	322.97	322.97	323.77	0.011177	3.97	27.28	16.83	1.00
afra02-08	3	q200	138.19	320.67	323.22	323.27	324.20	0.011663	4.37	31.60	17.45	1.03
afra02-08	3	q500	170.76	320.67	323.51	323.56	324.62	0.011014	4.66	36.73	17.99	1.03
afra02-08	2	q20	102.10	314.36	317.80	317.38	318.55	0.006509	3.88	27.54	12.36	0.75
afra02-08	2	q30	108.40	314.36	317.88	317.48	318.67	0.006568	3.98	28.63	12.63	0.76
afra02-08	2	q200	138.19	314.36	317.94	317.94	319.16	0.009952	4.97	29.34	12.76	0.94
afra02-08	2	q500	170.76	314.36	318.31	318.31	319.71	0.009815	5.35	34.23	13.63	0.95
afra02-08	1	q20	102.10	311.52	314.70	314.70	315.69	0.008562	4.56	24.87	13.37	0.86
afra02-08	1	q30	108.40	311.52	314.79	314.79	315.81	0.008500	4.64	26.13	13.86	0.87
afra02-08	1	q200	138.19	311.52	314.92	315.17	315.70	0.007698	4.54	50.97	81.27	0.83
afra02-08	1	q500	170.76	311.52	314.99	315.29	315.92	0.009312	5.07	57.07	81.42	0.92
afra02-08	0.9	q20	102.10	308.91	313.21	312.11	313.26	0.000490	1.38	143.17	153.11	0.22
afra02-08	0.9	q30	108.40	308.91	313.36	312.65	313.40	0.000367	1.22	166.29	153.11	0.20
afra02-08	0.9	q200	138.19	308.91	314.05	312.88	314.06	0.000140	0.84	270.89	153.11	0.12

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afra02-08	0.9	q500	170.76	308.91	314.59	312.97	314.60	0.000093	0.74	353.83	153.11	0.10
afra02-08	0.7	q20	102.10	309.08	312.42	311.83	313.06	0.004965	3.59	29.42	12.03	0.68
afra02-08	0.7	q30	108.40	309.08	312.53	311.92	313.20	0.004918	3.67	30.72	12.21	0.68
afra02-08	0.7	q200	138.19	309.08	313.15	312.34	313.85	0.004073	3.79	38.64	13.39	0.64
afra02-08	0.7	q500	170.76	309.08	314.58	312.77	314.60	0.000162	0.94	299.45	161.42	0.13
afra02-08	0.5		Bridge									
afra02-08	0.3	q20	102.10	309.08	311.83	311.83	312.90	0.010168	4.61	22.59	11.03	0.97
afra02-08	0.3	q30	108.40	309.08	311.92	311.92	313.03	0.009973	4.69	23.65	11.19	0.97
afra02-08	0.3	q200	138.19	309.08	312.34	312.34	313.61	0.009211	5.03	28.54	11.90	0.96
afra02-08	0.3	q500	170.76	309.08	312.78	312.78	314.18	0.008526	5.32	33.82	12.61	0.94
afra02-08	0.1	q20	102.10	308.78	311.24	311.66	312.66	0.018323	5.40	20.35	15.79	1.27
afra02-08	0.1	q30	108.40	308.78	311.28	311.74	312.78	0.018742	5.56	21.10	15.99	1.29
afra02-08	0.1	q200	138.19	308.78	311.50	312.07	313.31	0.020019	6.17	24.64	16.92	1.36
afra02-08	0.1	q500	170.76	308.78	311.71	312.23	313.83	0.020996	6.74	28.30	17.82	1.42
afra02-08	0.09	q20	102.10	306.36	309.29	309.29	310.21	0.008071	4.47	25.94	14.42	0.87
afra02-08	0.09	q30	108.40	306.36	309.38	309.38	310.32	0.008036	4.56	27.16	14.67	0.87
afra02-08	0.09	q200	138.19	306.36	309.80	309.80	309.91	0.001359	2.06	110.98	96.19	0.37
afra02-08	0.09	q500	170.76	306.36	309.80	309.80	309.97	0.002075	2.55	110.98	96.19	0.45
afra02-08	0.08	q20	102.10	304.52	308.31	307.38	308.32	0.000084	0.50	284.13	176.72	0.09
afra02-08	0.08	q30	108.40	304.52	308.41	307.45	308.42	0.000078	0.49	301.91	176.72	0.09
afra02-08	0.08	q200	138.19	304.52	308.61	307.70	308.61	0.000089	0.55	336.54	176.72	0.10
afra02-08	0.08	q500	170.76	304.52	308.99	307.81	309.00	0.000075	0.54	405.28	176.72	0.09
afra02-08	0.07	q20	102.10	304.69	308.00	306.97	308.24	0.002224	2.20	48.93	31.02	0.47
afra02-08	0.07	q30	108.40	304.69	308.10	307.04	308.34	0.002132	2.22	51.98	31.02	0.46
afra02-08	0.07	q200	138.19	304.69	308.10	307.41	308.49	0.003467	2.83	51.96	31.02	0.59
afra02-08	0.07	q500	170.76	304.69	308.47	307.81	308.88	0.003022	2.92	63.48	31.03	0.57
afra02-08	0.065		Bridge									
afra02-08	0.06	q20	102.10	303.90	307.94	306.53	308.15	0.001693	2.02	52.90	31.02	0.41
afra02-08	0.06	q30	108.40	303.90	308.05	306.61	308.26	0.001645	2.05	56.06	31.02	0.40
afra02-08	0.06	q200	138.19	303.90	307.77	306.98	308.22	0.004015	2.97	47.60	31.01	0.62
afra02-08	0.06	q500	170.76	303.90	307.52	307.36	308.39	0.009100	4.15	41.21	20.33	0.92
afra02-08	0.05	q20	102.10	304.04	307.07	307.07	307.90	0.007605	4.26	27.48	16.94	0.84
afra02-08	0.05	q30	108.40	304.04	307.15	307.15	308.00	0.007543	4.33	28.87	17.31	0.84
afra02-08	0.05	q200	138.19	304.04	307.42	307.42	308.07	0.005963	4.11	48.73	45.67	0.76
afra02-08	0.05	q500	170.76	304.04	307.61	307.61	308.05	0.004460	3.70	72.66	64.65	0.67
afra02-08	0.04	q20	102.10	301.11	305.27	304.24	305.27	0.000026	0.30	396.80	163.38	0.05
afra02-08	0.04	q30	108.40	301.11	305.43	304.27	305.43	0.000024	0.30	422.69	163.38	0.05
afra02-08	0.04	q200	138.19	301.11	305.71	304.54	305.72	0.000028	0.34	469.16	163.38	0.05
afra02-08	0.04	q500	170.76	301.11	306.21	304.54	306.21	0.000025	0.35	549.70	163.38	0.05
afra02-08	0.03	q20	102.10	301.03	305.27	303.96	305.27	0.000034	0.36	371.79	174.86	0.06
afra02-08	0.03	q30	108.40	301.03	305.43	304.04	305.43	0.000031	0.35	399.52	174.86	0.06
afra02-08	0.03	q200	138.19	301.03	305.71	304.39	305.72	0.000034	0.38	449.26	174.86	0.06
afra02-08	0.03	q500	170.76	301.03	306.21	304.73	306.21	0.000030	0.39	535.50	174.86	0.06
afra02-08	0.025		Bridge									
afra02-08	0.02	q20	102.10	301.03	304.54	303.96	305.03	0.003797	3.18	34.95	16.77	0.62
afra02-08	0.02	q30	108.40	301.03	304.63	304.04	305.13	0.003806	3.25	36.40	16.99	0.62
afra02-08	0.02	q200	138.19	301.03	304.39	304.39	305.41	0.008697	4.62	32.34	16.37	0.93
afra02-08	0.02	q500	170.76	301.03	304.73	304.73	305.87	0.008289	4.91	38.10	17.24	0.93
afra02-08	0.01	q20	102.10	300.91	304.27	304.03	304.91	0.006218	3.82	31.62	20.35	0.74
afra02-08	0.01	q30	108.40	300.91	304.35	304.12	305.02	0.006228	3.91	33.39	22.33	0.75
afra02-08	0.01	q200	138.19	300.91	304.51	304.40	304.63	0.001529	2.01	97.46	65.84	0.37
afra02-08	0.01	q500	170.76	300.91	304.40	304.40	304.95	0.006234	3.96	59.20	44.16	0.75
afra02-08	0	q20	102.10	297.99	300.98	300.98	301.79	0.007889	4.23	27.92	17.27	0.83
afra02-08	0	q30	108.40	297.99	301.05	301.05	301.88	0.007898	4.32	29.21	17.56	0.83
afra02-08	0	q200	138.19	297.99	301.39	301.39	302.31	0.007763	4.62	35.30	18.89	0.84
afra02-08	0	q500	170.76	297.99	301.49	301.49	301.54	0.000456	1.15	181.30	91.01	0.21