

HIGH TAILWATER PMF

EXISTING

HEC-RAS Plan: Plan 01 River: FP Reach: 10 Profile: PF#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
10	150	PF#1	4.82	4.57	5.38	4.99	5.39	0.000175	0.32	27.26	55.18	0.12	
10	140	PF#1	4.82	4.83	5.38		5.38	0.000572	0.41	19.3	55.4	0.19	
10	130	PF#1	4.82	4.96	5.36		5.37	0.002221	0.67	12.58	55.62	0.36	
10	120	PF#1	4.82	4.97	5.3		5.33	0.008304	0.98	7.24	41.97	0.65	
10	110	PF#1	4.82	4.68	5.08	5.08	5.2	0.019021	1.7	3.57	23.45	1.01	
10	100	PF#1	4.82	4.41	4.71	4.76	4.94	0.046507	2.28	2.27	7.51	1.53	
10	90	PF#1	4.82	4.18	4.55	4.52	4.7	0.024972	1.77	2.82	8.12	1.14	
10	80	PF#1	4.82	3.98	4.6		4.61	0.001811	0.71	10.99	39.44	0.34	
10	70	PF#1	4.82	3.75	4.6		4.6	0.000191	0.32	26.66	56.93	0.12	
10	60	PF#1	4.82	3.53	4.6		4.6	0.000036	0.18	45.21	56.78	0.05	
10	50	PF#1	4.82	3.25	4.6		4.6	0.000013	0.12	62.49	57.36	0.03	
10	40	PF#1	4.82	3.11	4.6		4.6	0.000007	0.1	75.2	57.54	0.03	
10	30	PF#1	4.82	2.95	4.6		4.6	0.000005	0.09	84.46	62.7	0.02	
10	20	PF#1	4.82	2.87	4.6		4.6	0.000004	0.08	92.27	65.01	0.02	
10	10	PF#1	4.82	2.76	4.6	2.98	4.6	0.000003	0.08	101.9	73.53	0.02	

DEVELOPED

HEC-RAS Plan: Plan 01 River: FP Reach: 10 Profile: PF#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
10	150	PF#1	4.82	3.73	4.62	4.33	7.24	1.000898	2	0.61	4.58	6.62	
10	140	PF#1	4.82	3.66	4.62	4.26	4.66	0.001449	0.98	6.6	10.53	0.34	
10	130	PF#1	4.82	3.58	4.61		4.64	0.001051	0.88	7.38	10.67	0.29	
10	120	PF#1	4.82	3.5	4.61		4.63	0.000784	0.8	8.15	10.82	0.25	
10	110	PF#1	4.82	3.42	4.61		4.63	0.00061	0.74	8.98	11.54	0.23	
10	100	PF#1	4.82	3.35	4.6		4.62	0.000463	0.67	10.01	11.82	0.2	
10	90	PF#1	4.82	3.27	4.6		4.62	0.000395	0.65	11.23	16.15	0.19	
10	80	PF#1	4.82	3.19	4.6		4.61	0.000272	0.56	12.67	14.19	0.16	
10	70	PF#1	4.82	3.12	4.6		4.61	0.000198	0.5	14.55	15.24	0.14	
10	60	PF#1	4.82	3.04	4.6		4.61	0.000161	0.46	15.8	16.19	0.12	
10	50	PF#1	4.82	2.96	4.6		4.6	0.00008	0.34	22.15	20.03	0.09	
10	40	PF#1	4.82	2.88	4.6		4.6	0.000049	0.27	28.02	23.81	0.07	
10	30	PF#1	4.82	2.81	4.6		4.6	0.000018	0.17	42.62	29.47	0.04	
10	20	PF#1	4.82	2.73	4.6		4.6	0.000014	0.16	46.66	31.13	0.04	
10	10	PF#1	4.82	2.65	4.6	3.18	4.6	0.00002	0.19	43.42	36.28	0.04	

LOW TAILWATER PMF

EXISTING

HEC-RAS Plan: Plan 01 River: FP Reach: 10 Profile: PF#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
10	150	PF#1	4.82	4.57	5.38	4.99	5.39	0.000175	0.32	27.26	55.18	0.12	
10	140	PF#1	4.82	4.83	5.38		5.38	0.000572	0.41	19.31	55.4	0.19	
10	130	PF#1	4.82	4.96	5.36		5.37	0.002219	0.66	12.58	55.62	0.36	
10	120	PF#1	4.82	4.97	5.3		5.33	0.008282	0.98	7.25	42.01	0.65	
10	110	PF#1	4.82	4.68	5.08	5.08	5.2	0.019021	1.7	3.57	23.45	1.01	
10	100	PF#1	4.82	4.41	4.71	4.76	4.94	0.046507	2.28	2.27	7.51	1.53	
10	90	PF#1	4.82	4.18	4.56	4.53	4.7	0.023213	1.73	2.89	8.17	1.1	
10	80	PF#1	4.82	3.98	4.39	4.39	4.49	0.017061	1.44	4.19	27.1	0.94	
10	70	PF#1	4.82	3.75	4.06	4.11	4.23	0.045285	1.93	3.1	24.77	1.45	
10	60	PF#1	4.82	3.53	4	3.83	4.01	0.001962	0.74	12.03	47.53	0.35	
10	50	PF#1	4.82	3.25	4		4	0.000168	0.3	28.1	57.36	0.11	
10	40	PF#1	4.82	3.11	4		4	0.000052	0.18	40.7	57.54	0.06	
10	30	PF#1	4.82	2.95	4		4	0.000035	0.17	46.85	62.7	0.05	
10	20	PF#1	4.82	2.87	4		4	0.000024	0.15	53.57	64	0.05	
10	10	PF#1	4.82	2.76	4	2.98	4	0.00002	0.15	58.29	71.91	0.04	

DEVELOPED

HEC-RAS Plan: Plan 01 River: FP Reach: 10 Profile: PF#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
10	150	PF#1	4.82	3.73	3.98	4.33	7.24	1.000898	2	0.61	4.58	6.62	
10	140	PF#1	4.82	3.66	4.08	4.26	4.67	0.071071	3.53	1.56	6.64	2	
10	130	PF#1	4.82	3.58	4.26	4.18	4.38	0.007366	1.69	3.69	9.73	0.71	
10	120	PF#1	4.82	3.5	4.18		4.3	0.007118	1.68	3.73	9.8	0.7	
10	110	PF#1	4.82	3.42	4.12		4.23	0.006237	1.61	3.92	10.01	0.66	
10	100	PF#1	4.82	3.35	4.07		4.17	0.005425	1.53	4.14	10.05	0.62	
10	90	PF#1	4.82	3.27	4.04		4.12	0.004054	1.39	4.59	10.14	0.54	
10	80	PF#1	4.82	3.19	4.02		4.08	0.002942	1.25	5.34	11.84	0.47	
10	70	PF#1	4.82	3.12	4		4.05	0.002044	1.09	6.26	12.61	0.39	
10	60	PF#1	4.82	3.04	4		4.03	0.001386	0.95	7.19	12.75	0.33	
10	50	PF#1	4.82	2.96	4		4.01	0.000599	0.67	10.94	17.02	0.22	
10	40	PF#1	4.82	2.88	4		4.01	0.000325	0.52	14.5	20.45	0.16	
10	30	PF#1	4.82	2.81	4		4.01	0.000086	0.28	25.55	27.67	0.09	
10	20	PF#1	4.82	2.73	4		4	0.000061	0.25	28.74	28.8	0.07	
10	10	PF#1	4.82	2.65	4	3.18	4	0.00012	0.36	23.16	31.34	0.1	