

Allegato B:
ELABORATI CODICE DI CALCOLO HECRAS

- Tabelle con portate, progressive e risultati delle simulazioni numeriche per $Tr=20$, 50, 100, 200 e 300 anni + stime per l'evento 2019 considerando le precipitazioni misurate a Villa di serio-CML e T.Boldone-ARPA
- Profilo longitudinale con livelli di piena $Tr=20$ e 100 anni
- Sezioni di calcolo con livelli di piena $Tr=20$ e 100 anni

HEC-RAS Plan: MP_geo2g_QT20-500_ieto_cost-TRIANG River: T.Gavarnia Reach: Tratto_1

Reach	River Sta	Profile	Q Total (m3/s)	Cum Ch Len (m)	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)	Hydr Depth (m)	Flow Area (m2)	Top Width (m)	Froude # Chl
Tratto_1	47.00	Q020_ietoTRIANG	16.94	3185.61	327.04	328.30	328.43	328.96	0.020032	3.61	0.92	4.69	5.08	1.20
Tratto_1	47.00	Q050_ietoTRIANG	19.75	3185.61	327.04	328.41	328.55	329.13	0.020034	3.76	0.99	5.25	5.29	1.21
Tratto_1	47.00	Q100_ietoTRIANG	21.88	3185.61	327.04	328.48	328.65	329.25	0.020038	3.87	1.04	5.66	5.45	1.21
Tratto_1	47.00	Q200_ietoTRIANG	24.00	3185.61	327.04	328.55	328.74	329.36	0.020011	3.96	1.08	6.05	5.59	1.22
Tratto_1	47.00	Q500_ietoTRIANG	26.82	3185.61	327.04	328.64	328.84	329.50	0.020032	4.09	1.14	6.57	5.77	1.22
Tratto_1	47.00	Q2019Vserio	16.36	3185.61	327.04	328.28	328.41	328.93	0.020031	3.57	0.91	4.58	5.03	1.20
Tratto_1	47.00	Q2019TBoldone	12.85	3185.61	327.04	328.13	328.23	328.70	0.020026	3.34	0.81	3.85	4.73	1.18
Tratto_1	46.00	Q020_ietoTRIANG	16.94	3160.09	325.88	327.74	327.23	327.96	0.004249	2.07	1.41	8.18	5.79	0.56
Tratto_1	46.00	Q050_ietoTRIANG	19.75	3160.09	325.88	327.90	327.34	328.14	0.004298	2.17	1.52	9.10	5.97	0.56
Tratto_1	46.00	Q100_ietoTRIANG	21.88	3160.09	325.88	328.02	327.43	328.27	0.004135	2.23	1.61	9.83	6.11	0.56
Tratto_1	46.00	Q200_ietoTRIANG	24.00	3160.09	325.88	328.14	327.51	328.40	0.003923	2.28	1.69	10.57	6.25	0.55
Tratto_1	46.00	Q500_ietoTRIANG	26.82	3160.09	325.88	328.31	327.62	328.58	0.003595	2.32	1.81	11.65	6.45	0.53
Tratto_1	46.00	Q2019Vserio	16.36	3160.09	325.88	327.71	327.20	327.92	0.004228	2.05	1.39	7.99	5.75	0.55
Tratto_1	46.00	Q2019TBoldone	12.85	3160.09	325.88	327.51	327.04	327.69	0.004025	1.88	1.24	6.84	5.51	0.54
Tratto_1	45.99	Bridge												
Tratto_1	45.98	Q020_ietoTRIANG	16.94	3153.09	325.81	327.58	327.16	327.84	0.005207	2.23	1.35	7.59	5.62	0.61
Tratto_1	45.98	Q050_ietoTRIANG	19.75	3153.09	325.81	327.68	327.28	327.98	0.005782	2.42	1.42	8.17	5.74	0.65
Tratto_1	45.98	Q100_ietoTRIANG	21.88	3153.09	325.81	327.75	327.36	328.08	0.006252	2.56	1.47	8.56	5.81	0.67
Tratto_1	45.98	Q200_ietoTRIANG	24.00	3153.09	325.81	327.81	327.45	328.18	0.006760	2.70	1.51	8.90	5.88	0.70
Tratto_1	45.98	Q500_ietoTRIANG	26.82	3153.09	325.81	327.21	327.55	328.39	0.030995	4.81	1.07	5.57	5.19	1.48
Tratto_1	45.98	Q2019Vserio	16.36	3153.09	325.81	327.56	327.14	327.80	0.005093	2.19	1.33	7.47	5.59	0.61
Tratto_1	45.98	Q2019TBoldone	12.85	3153.09	325.81	327.40	326.97	327.60	0.004407	1.94	1.22	6.61	5.41	0.56
Tratto_1	45.00	Q020_ietoTRIANG	16.94	3134.73	325.64	327.29	327.25	327.69	0.011086	2.78	0.91	6.10	6.72	0.93
Tratto_1	45.00	Q050_ietoTRIANG	19.75	3134.73	325.64	327.41	327.35	327.83	0.010892	2.87	0.97	6.88	7.09	0.93
Tratto_1	45.00	Q100_ietoTRIANG	21.88	3134.73	325.64	327.49	327.43	327.92	0.010675	2.93	1.01	7.48	7.37	0.93
Tratto_1	45.00	Q200_ietoTRIANG	24.00	3134.73	325.64	327.57	327.50	328.02	0.010389	2.97	1.06	8.09	7.64	0.92
Tratto_1	45.00	Q500_ietoTRIANG	26.82	3134.73	325.64	327.66	327.59	328.14	0.010284	3.04	1.11	8.82	7.95	0.92
Tratto_1	45.00	Q2019Vserio	16.36	3134.73	325.64	327.27	327.22	327.66	0.011106	2.75	0.90	5.94	6.64	0.93
Tratto_1	45.00	Q2019TBoldone	12.85	3134.73	325.64	327.11	327.06	327.46	0.011498	2.62	0.80	4.91	6.10	0.93
Tratto_1	44.500*	Q020_ietoTRIANG	16.94	3097.73	325.12	327.17	326.83	327.37	0.004831	1.98	1.02	8.57	8.38	0.62
Tratto_1	44.500*	Q050_ietoTRIANG	19.75	3097.73	325.12	327.30	326.93	327.51	0.004634	2.04	1.12	9.68	8.65	0.62
Tratto_1	44.500*	Q100_ietoTRIANG	21.88	3097.73	325.12	327.39	327.01	327.61	0.004528	2.09	1.19	10.49	8.83	0.61
Tratto_1	44.500*	Q200_ietoTRIANG	24.00	3097.73	325.12	327.48	327.08	327.71	0.004421	2.12	1.25	11.30	9.01	0.61
Tratto_1	44.500*	Q500_ietoTRIANG	26.82	3097.73	325.12	327.58	327.16	327.83	0.004470	2.20	1.32	12.18	9.21	0.61
Tratto_1	44.500*	Q2019Vserio	16.36	3097.73	325.12	327.14	326.80	327.34	0.004883	1.96	1.00	8.33	8.33	0.63
Tratto_1	44.500*	Q2019TBoldone	12.85	3097.73	325.12	326.95	326.66	327.13	0.005209	1.89	0.90	6.80	7.57	0.64
Tratto_1	44.00	Q020_ietoTRIANG	16.94	3060.73	324.60	326.55	326.55	327.04	0.017064	3.07	0.97	5.51	5.70	1.00
Tratto_1	44.00	Q050_ietoTRIANG	19.75	3060.73	324.60	326.68	326.68	327.19	0.016698	3.16	1.02	6.25	6.11	1.00
Tratto_1	44.00	Q100_ietoTRIANG	21.88	3060.73	324.60	326.76	326.76	327.30	0.016362	3.23	1.08	6.76	6.27	0.99
Tratto_1	44.00	Q200_ietoTRIANG	24.00	3060.73	324.60	326.84	326.84	327.40	0.016278	3.32	1.13	7.24	6.42	1.00
Tratto_1	44.00	Q500_ietoTRIANG	26.82	3060.73	324.60	327.00	326.93	327.53	0.013636	3.21	1.24	8.34	6.73	0.92

HEC-RAS Plan: MP_geo2g_QT20-500_ieto_cost-TRIANG River: T.Gavarnia Reach: Tratto_1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Cum Ch Len (m)	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)	Hydr Depth (m)	Flow Area (m2)	Top Width (m)	Froude # Chl
Tratto_1	44.00	Q2019Vserio	16.36	3060.73	324.60	326.53	326.53	327.00	0.017165	3.06	0.95	5.36	5.61	1.00
Tratto_1	44.00	Q2019T-Boldone	12.85	3060.73	324.60	326.35	326.35	326.78	0.017712	2.92	0.88	4.40	5.02	1.00
Tratto_1	43.00	Q020_ieto-TRIANG	16.94	3022.12	324.36	326.47	325.78	326.61	0.002496	1.68	1.59	10.09	6.35	0.43
Tratto_1	43.00	Q050_ieto-TRIANG	19.75	3022.12	324.36	326.65	325.87	326.80	0.002509	1.76	1.77	11.22	6.35	0.42
Tratto_1	43.00	Q100_ieto-TRIANG	21.88	3022.12	324.36	326.77	325.95	326.94	0.002535	1.82	1.89	12.03	6.35	0.42
Tratto_1	43.00	Q200_ieto-TRIANG	24.00	3022.12	324.36	326.89	326.01	327.07	0.002578	1.88	2.01	12.78	6.35	0.42
Tratto_1	43.00	Q500_ieto-TRIANG	26.82	3022.12	324.36	327.04	326.10	327.23	0.002645	1.95	2.16	13.72	6.35	0.42
Tratto_1	43.00	Q2019Vserio	16.36	3022.12	324.36	326.43	325.75	326.57	0.002484	1.66	1.55	9.86	6.35	0.43
Tratto_1	43.00	Q2019T-Boldone	12.85	3022.12	324.36	326.18	325.62	326.30	0.002560	1.56	1.30	8.25	6.35	0.44
Tratto_1	42.99		Bridge											
Tratto_1	42.98	Q020_ieto-TRIANG	16.94	3010.12	324.29	326.44	325.71	326.58	0.002301	1.63	1.63	10.38	6.35	0.41
Tratto_1	42.98	Q050_ieto-TRIANG	19.75	3010.12	324.29	326.62	325.80	326.77	0.002335	1.72	1.81	11.51	6.35	0.41
Tratto_1	42.98	Q100_ieto-TRIANG	21.88	3010.12	324.29	326.75	325.87	326.91	0.002374	1.78	1.94	12.32	6.35	0.41
Tratto_1	42.98	Q200_ieto-TRIANG	24.00	3010.12	324.29	326.87	325.94	327.04	0.002427	1.84	2.06	13.06	6.35	0.41
Tratto_1	42.98	Q500_ieto-TRIANG	26.82	3010.12	324.29	327.01	326.03	327.20	0.002504	1.92	2.20	14.00	6.35	0.41
Tratto_1	42.98	Q2019Vserio	16.36	3010.12	324.29	326.41	325.69	326.54	0.002285	1.61	1.60	10.15	6.35	0.41
Tratto_1	42.98	Q2019T-Boldone	12.85	3010.12	324.29	326.15	325.55	326.27	0.002315	1.50	1.35	8.54	6.35	0.41
Tratto_1	42.00	Q020_ieto-TRIANG	17.22	2993.81	324.19	325.86	325.86	326.45	0.017540	3.42	1.19	5.04	4.25	1.00
Tratto_1	42.00	Q050_ieto-TRIANG	20.09	2993.81	324.19	326.01	326.01	326.64	0.017213	3.53	1.28	5.70	4.46	1.00
Tratto_1	42.00	Q100_ieto-TRIANG	22.24	2993.81	324.19	326.10	326.10	326.77	0.017590	3.64	1.33	6.10	4.58	1.01
Tratto_1	42.00	Q200_ieto-TRIANG	24.40	2993.81	324.19	326.20	326.20	326.90	0.017274	3.70	1.39	6.59	4.72	1.00
Tratto_1	42.00	Q500_ieto-TRIANG	27.27	2993.81	324.19	326.33	326.33	327.06	0.017119	3.79	1.47	7.19	4.90	1.00
Tratto_1	42.00	Q2019Vserio	16.66	2993.81	324.19	325.82	325.82	326.41	0.017744	3.40	1.17	4.90	4.20	1.01
Tratto_1	42.00	Q2019T-Boldone	13.10	2993.81	324.19	325.63	325.63	326.15	0.017387	3.18	1.05	4.12	3.94	0.99
Tratto_1	41.500*	Q020_ieto-TRIANG	17.22	2960.31	323.68	325.29	325.30	325.88	0.016530	3.42	1.15	5.03	4.38	1.02
Tratto_1	41.500*	Q050_ieto-TRIANG	20.09	2960.31	323.68	325.41	325.44	326.07	0.016879	3.59	1.23	5.60	4.55	1.03
Tratto_1	41.500*	Q100_ieto-TRIANG	22.24	2960.31	323.68	325.51	325.55	326.20	0.016758	3.67	1.29	6.06	4.68	1.03
Tratto_1	41.500*	Q200_ieto-TRIANG	24.40	2960.31	323.68	325.60	325.64	326.32	0.017018	3.78	1.35	6.45	4.80	1.04
Tratto_1	41.500*	Q500_ieto-TRIANG	27.27	2960.31	323.68	325.71	325.76	326.48	0.017188	3.90	1.41	6.99	4.94	1.05
Tratto_1	41.500*	Q2019Vserio	16.66	2960.31	323.68	325.28	325.28	325.84	0.015827	3.34	1.14	4.99	4.36	1.00
Tratto_1	41.500*	Q2019T-Boldone	13.10	2960.31	323.68	325.08	325.08	325.59	0.015941	3.14	1.02	4.17	4.10	1.00
Tratto_1	41.00	Q020_ieto-TRIANG	17.90	2926.81	323.17	324.51	324.64	325.24	0.021222	3.80	1.06	4.71	4.45	1.18
Tratto_1	41.00	Q050_ieto-TRIANG	20.87	2926.81	323.17	324.63	324.78	325.43	0.020907	3.94	1.15	5.29	4.61	1.18
Tratto_1	41.00	Q100_ieto-TRIANG	23.12	2926.81	323.17	324.72	324.88	325.56	0.020835	4.05	1.21	5.71	4.72	1.18
Tratto_1	41.00	Q200_ieto-TRIANG	25.36	2926.81	323.17	324.81	324.97	325.69	0.020638	4.14	1.27	6.13	4.83	1.17
Tratto_1	41.00	Q500_ieto-TRIANG	28.34	2926.81	323.17	324.92	325.09	325.84	0.020422	4.25	1.34	6.67	4.97	1.17
Tratto_1	41.00	Q2019Vserio	17.38	2926.81	323.17	324.48	324.61	325.21	0.021567	3.79	1.04	4.58	4.42	1.19
Tratto_1	41.00	Q2019T-Boldone	13.70	2926.81	323.17	324.31	324.43	324.95	0.021600	3.55	0.92	3.86	4.21	1.18
Tratto_1	40.00	Q020_ieto-TRIANG	18.20	2897.09	322.76	324.52	324.05	324.71	0.003811	1.93	1.21	9.42	7.82	0.56
Tratto_1	40.00	Q050_ieto-TRIANG	21.22	2897.09	322.76	324.68	324.16	324.88	0.003686	1.99	1.30	10.68	8.23	0.56

HEC-RAS Plan: MP_geo2g_QT20-500_ieto_cost-TRIANG River: T.Gavarnia Reach: Tratto_1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Cum Ch Len (m)	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)	Hydr Depth (m)	Flow Area (m2)	Top Width (m)	Froude # Chl
Tratto_1	40.00	Q100_ietoTRIANG	23.50	2897.09	322.76	324.78	324.24	324.99	0.003635	2.03	1.36	11.57	8.52	0.56
Tratto_1	40.00	Q200_ietoTRIANG	25.79	2897.09	322.76	324.88	324.32	325.10	0.003604	2.08	1.41	12.43	8.79	0.56
Tratto_1	40.00	Q500_ietoTRIANG	28.81	2897.09	322.76	325.02	324.41	325.25	0.003459	2.10	1.49	13.69	9.17	0.55
Tratto_1	40.00	Q2019Vserio	17.69	2897.09	322.76	324.49	324.03	324.68	0.003828	1.92	1.19	9.21	7.74	0.56
Tratto_1	40.00	Q2019TBoldone	13.96	2897.09	322.76	324.27	323.88	324.44	0.004127	1.85	1.06	7.54	7.14	0.58
Tratto_1	39.99		Bridge											
Tratto_1	39.98	Q020_ietoTRIANG	18.20	2892.09	322.70	324.50	324.02	324.69	0.003728	1.92	1.21	9.50	7.83	0.56
Tratto_1	39.98	Q050_ietoTRIANG	21.22	2892.09	322.70	324.66	324.14	324.86	0.003608	1.97	1.30	10.76	8.25	0.55
Tratto_1	39.98	Q100_ietoTRIANG	23.50	2892.09	322.70	324.77	324.21	324.97	0.003560	2.02	1.37	11.66	8.54	0.55
Tratto_1	39.98	Q200_ietoTRIANG	25.79	2892.09	322.70	324.87	324.29	325.08	0.003532	2.06	1.42	12.52	8.81	0.55
Tratto_1	39.98	Q500_ietoTRIANG	28.81	2892.09	322.70	325.01	324.38	325.23	0.003390	2.09	1.50	13.80	9.19	0.54
Tratto_1	39.98	Q2019Vserio	17.69	2892.09	322.70	324.48	324.00	324.66	0.003745	1.90	1.20	9.29	7.76	0.56
Tratto_1	39.98	Q2019TBoldone	13.96	2892.09	322.70	324.25	323.85	324.42	0.004042	1.84	1.06	7.60	7.15	0.57
Tratto_1	39.720	Q020_ietoTRIANG	18.20	2847.68	322.24	323.78	323.78	324.36	0.015129	3.35	1.00	5.52	5.53	0.96
Tratto_1	39.720	Q050_ietoTRIANG	21.22	2847.68	322.24	323.94	323.94	324.54	0.014072	3.44	1.00	6.45	6.42	0.93
Tratto_1	39.720	Q100_ietoTRIANG	23.50	2847.68	322.24	324.05	324.05	324.66	0.013368	3.49	1.02	7.19	7.07	0.91
Tratto_1	39.720	Q200_ietoTRIANG	25.79	2847.68	322.24	324.16	324.16	324.77	0.012685	3.53	1.00	8.02	8.05	0.89
Tratto_1	39.720	Q500_ietoTRIANG	28.81	2847.68	322.24	324.22	324.22	324.91	0.013808	3.75	0.99	8.56	8.63	0.93
Tratto_1	39.720	Q2019Vserio	17.69	2847.68	322.24	323.75	323.75	324.32	0.015496	3.34	1.00	5.36	5.35	0.97
Tratto_1	39.720	Q2019TBoldone	13.96	2847.68	322.24	323.56	323.56	324.07	0.016399	3.14	1.02	4.44	4.36	1.00
Tratto_1	39.460	Q020_ietoTRIANG	18.20	2803.27	321.35	323.16	322.86	323.47	0.006526	2.46	0.60	7.73	12.97	0.70
Tratto_1	39.460	Q050_ietoTRIANG	21.22	2803.27	321.35	323.72	322.99	323.81	0.001710	1.53	0.81	20.13	24.83	0.37
Tratto_1	39.460	Q100_ietoTRIANG	23.50	2803.27	321.35	323.75	323.08	323.86	0.001892	1.62	0.85	21.05	24.83	0.39
Tratto_1	39.460	Q200_ietoTRIANG	25.79	2803.27	321.35	323.79	323.42	323.90	0.002067	1.71	0.88	21.93	24.83	0.41
Tratto_1	39.460	Q500_ietoTRIANG	28.81	2803.27	321.35	323.84	323.50	323.96	0.002280	1.82	0.93	23.08	24.83	0.43
Tratto_1	39.460	Q2019Vserio	17.69	2803.27	321.35	323.14	322.84	323.44	0.006531	2.44	0.65	7.46	11.42	0.70
Tratto_1	39.460	Q2019TBoldone	13.96	2803.27	321.35	322.91	322.65	323.19	0.007064	2.34	1.09	5.96	5.45	0.72
Tratto_1	39.20	Q020_ietoTRIANG	19.59	2758.86	321.08	322.53	322.44	323.04	0.013202	3.17	1.31	6.19	4.74	0.88
Tratto_1	39.20	Q050_ietoTRIANG	22.85	2758.86	321.08	323.62	322.56	323.73	0.001931	1.59	0.61	21.49	35.29	0.34
Tratto_1	39.20	Q100_ietoTRIANG	25.30	2758.86	321.08	323.64	322.70	323.77	0.002235	1.72	0.63	22.17	35.29	0.37
Tratto_1	39.20	Q200_ietoTRIANG	27.76	2758.86	321.08	323.66	322.78	323.80	0.002567	1.85	0.64	22.73	35.29	0.39
Tratto_1	39.20	Q500_ietoTRIANG	31.02	2758.86	321.08	323.67	322.89	323.84	0.003062	2.03	0.66	23.27	35.29	0.43
Tratto_1	39.20	Q2019Vserio	19.16	2758.86	321.08	322.51	322.41	323.02	0.013167	3.14	1.29	6.10	4.74	0.88
Tratto_1	39.20	Q2019TBoldone	15.20	2758.86	321.08	322.34	322.24	322.76	0.012700	2.89	1.11	5.26	4.74	0.88
Tratto_1	39.19		Bridge											
Tratto_1	39.10	Q020_ietoTRIANG	19.59	2746.89	321.00	321.92	322.21	322.81	0.036396	4.18	0.65	4.68	7.17	1.65
Tratto_1	39.10	Q050_ietoTRIANG	22.85	2746.89	321.00	321.87	322.31	323.29	0.062066	5.28	0.62	4.33	7.00	2.14
Tratto_1	39.10	Q100_ietoTRIANG	25.30	2746.89	321.00	321.94	322.37	323.34	0.056043	5.25	0.66	4.82	7.25	2.06
Tratto_1	39.10	Q200_ietoTRIANG	27.76	2746.89	321.00	322.00	322.44	323.39	0.050910	5.21	0.71	5.32	7.51	1.98
Tratto_1	39.10	Q500_ietoTRIANG	31.02	2746.89	321.00	322.09	322.52	323.47	0.046342	5.21	0.76	5.96	7.83	1.91

HEC-RAS Plan: MP_geo2g_QT20-500_ieto_cost-TRIANG River: T.Gavarnia Reach: Tratto_1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Cum Ch Len (m)	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)	Hydr Depth (m)	Flow Area (m2)	Top Width (m)	Froude # Chl
Tratto_1	39.10	Q2019Vserio	19.16	2746.89	321.00	321.91	322.19	322.78	0.036104	4.14	0.65	4.62	7.14	1.65
Tratto_1	39.10	Q2019T-Boldone	15.20	2746.89	321.00	321.83	322.05	322.55	0.033414	3.76	0.59	4.04	6.86	1.56
Tratto_1	38.00	Q020_ietoTRIANG	19.73	2705.68	319.87	321.56	321.56	322.09	0.015212	3.25	1.08	6.06	5.60	1.00
Tratto_1	38.00	Q050_ietoTRIANG	23.01	2705.68	319.87	321.68	321.68	322.27	0.014961	3.39	1.18	6.79	5.76	1.00
Tratto_1	38.00	Q100_ietoTRIANG	25.49	2705.68	319.87	321.77	321.77	322.39	0.014873	3.49	1.24	7.31	5.87	1.00
Tratto_1	38.00	Q200_ietoTRIANG	27.96	2705.68	319.87	321.86	321.86	322.51	0.014721	3.57	1.31	7.83	5.98	1.00
Tratto_1	38.00	Q500_ietoTRIANG	31.25	2705.68	319.87	321.97	321.97	322.66	0.014612	3.68	1.39	8.50	6.12	1.00
Tratto_1	38.00	Q2019Vserio	19.33	2705.68	319.87	321.53	321.53	322.07	0.015419	3.25	1.07	5.95	5.58	1.00
Tratto_1	38.00	Q2019T-Boldone	15.35	2705.68	319.87	321.37	321.37	321.84	0.015463	3.03	0.94	5.07	5.38	1.00
Tratto_1	37.00	Q020_ietoTRIANG	19.78	2689.31	319.79	321.34	321.20	321.79	0.011454	2.95	1.27	6.71	5.27	0.83
Tratto_1	37.00	Q050_ietoTRIANG	23.07	2689.31	319.79	321.48	321.32	321.97	0.011710	3.11	1.41	7.41	5.27	0.84
Tratto_1	37.00	Q100_ietoTRIANG	25.54	2689.31	319.79	321.57	321.41	322.10	0.011905	3.23	1.50	7.91	5.27	0.84
Tratto_1	37.00	Q200_ietoTRIANG	28.03	2689.31	319.79	321.67	321.49	322.23	0.011874	3.31	1.60	8.46	5.27	0.84
Tratto_1	37.00	Q500_ietoTRIANG	31.32	2689.31	319.79	321.79	321.60	322.40	0.012078	3.44	1.73	9.10	5.27	0.84
Tratto_1	37.00	Q2019Vserio	19.38	2689.31	319.79	321.33	321.18	321.76	0.011423	2.93	1.26	6.62	5.27	0.83
Tratto_1	37.00	Q2019T-Boldone	15.40	2689.31	319.79	321.15	321.02	321.52	0.011136	2.70	1.08	5.71	5.27	0.83
Tratto_1	36.99	Bridge												
Tratto_1	36.98	Q020_ietoTRIANG	19.78	2682.71	319.68	321.10	321.10	321.67	0.016916	3.36	1.12	5.89	5.27	1.01
Tratto_1	36.98	Q050_ietoTRIANG	23.07	2682.71	319.68	321.23	321.23	321.86	0.016559	3.50	1.25	6.59	5.27	1.00
Tratto_1	36.98	Q100_ietoTRIANG	25.54	2682.71	319.68	321.32	321.32	321.99	0.016637	3.62	1.34	7.06	5.27	1.00
Tratto_1	36.98	Q200_ietoTRIANG	28.03	2682.71	319.68	321.40	321.40	322.12	0.016974	3.75	1.42	7.48	5.27	1.00
Tratto_1	36.98	Q500_ietoTRIANG	31.32	2682.71	319.68	321.52	321.52	322.28	0.016987	3.87	1.53	8.08	5.27	1.00
Tratto_1	36.98	Q2019Vserio	19.38	2682.71	319.68	321.10	321.10	321.65	0.016326	3.30	1.12	5.88	5.27	1.00
Tratto_1	36.98	Q2019T-Boldone	15.40	2682.71	319.68	320.94	320.94	321.41	0.016270	3.06	0.96	5.04	5.27	1.00
Tratto_1	36.00	Q020_ietoTRIANG	19.86	2658.55	319.27	320.51	320.69	321.21	0.020926	3.71	0.95	5.36	5.67	1.22
Tratto_1	36.00	Q050_ietoTRIANG	23.16	2658.55	319.27	320.61	320.81	321.38	0.021622	3.91	0.85	6.00	7.07	1.25
Tratto_1	36.00	Q100_ietoTRIANG	25.65	2658.55	319.27	320.67	320.89	321.51	0.022336	4.07	0.89	6.43	7.22	1.28
Tratto_1	36.00	Q200_ietoTRIANG	28.14	2658.55	319.27	320.72	320.97	321.62	0.022957	4.22	0.93	6.84	7.36	1.31
Tratto_1	36.00	Q500_ietoTRIANG	31.45	2658.55	319.27	320.79	321.07	321.78	0.023997	4.43	0.97	7.33	7.53	1.35
Tratto_1	36.00	Q2019Vserio	19.47	2658.55	319.27	320.49	320.67	321.19	0.020948	3.70	0.95	5.26	5.57	1.22
Tratto_1	36.00	Q2019T-Boldone	15.49	2658.55	319.27	320.33	320.47	320.96	0.020695	3.52	0.89	4.40	4.97	1.19
Tratto_1	35.750*	Q020_ietoTRIANG	19.86	2615.12	318.81	320.24	320.22	320.67	0.011421	2.90	0.84	7.00	8.33	0.94
Tratto_1	35.750*	Q050_ietoTRIANG	23.16	2615.12	318.81	320.33	320.33	320.81	0.011834	3.07	0.91	7.76	8.57	0.97
Tratto_1	35.750*	Q100_ietoTRIANG	25.65	2615.12	318.81	320.41	320.41	320.91	0.011527	3.13	0.96	8.46	8.78	0.97
Tratto_1	35.750*	Q200_ietoTRIANG	28.14	2615.12	318.81	320.48	320.48	321.00	0.011434	3.21	1.01	9.10	8.97	0.97
Tratto_1	35.750*	Q500_ietoTRIANG	31.45	2615.12	318.81	320.57	320.57	321.12	0.011361	3.31	1.08	9.91	9.20	0.98
Tratto_1	35.750*	Q2019Vserio	19.47	2615.12	318.81	320.23	320.21	320.65	0.011445	2.88	0.83	6.89	8.30	0.94
Tratto_1	35.750*	Q2019T-Boldone	15.49	2615.12	318.81	320.11	320.03	320.46	0.010418	2.60	0.75	5.97	7.99	0.89
Tratto_1	35.500*	Q020_ietoTRIANG	19.86	2571.70	318.35	319.73	319.73	320.15	0.012173	2.88	0.75	6.97	9.25	0.98
Tratto_1	35.500*	Q050_ietoTRIANG	23.16	2571.70	318.35	319.83	319.84	320.29	0.011974	3.00	0.83	7.88	9.52	0.99

HEC-RAS Plan: MP_geo2g_QT20-500_ieto_cost-TRIANG River: T.Gavarnia Reach: Tratto_1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Cum Ch Len (m)	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)	Hydr Depth (m)	Flow Area (m2)	Top Width (m)	Froude # Chl
Tratto_1	35.500*	Q100_ietoTRIANG	25.65	2571.70	318.35	319.87	319.91	320.38	0.012756	3.16	0.86	8.31	9.64	1.03
Tratto_1	35.500*	Q200_ietoTRIANG	28.14	2571.70	318.35	319.93	319.98	320.47	0.013023	3.28	0.90	8.83	9.79	1.04
Tratto_1	35.500*	Q500_ietoTRIANG	31.45	2571.70	318.35	320.00	320.07	320.58	0.013294	3.41	0.95	9.51	9.98	1.06
Tratto_1	35.500*	Q2019Vserio	19.47	2571.70	318.35	319.72	319.72	320.14	0.012034	2.85	0.75	6.89	9.23	0.98
Tratto_1	35.500*	Q2019T-Boldone	15.49	2571.70	318.35	319.56	319.56	319.95	0.013004	2.76	0.78	5.61	7.19	1.00
Tratto_1	35.250*	Q020_ietoTRIANG	19.86	2528.27	317.88	319.45	319.23	319.69	0.005777	2.16	0.87	9.39	10.85	0.70
Tratto_1	35.250*	Q050_ietoTRIANG	23.16	2528.27	317.88	319.64	319.34	319.86	0.004608	2.10	1.00	11.41	11.36	0.64
Tratto_1	35.250*	Q100_ietoTRIANG	25.65	2528.27	317.88	319.77	319.41	319.98	0.003873	2.05	0.96	13.04	13.52	0.60
Tratto_1	35.250*	Q200_ietoTRIANG	28.14	2528.27	317.88	319.91	319.47	320.11	0.003241	2.01	1.10	14.85	13.52	0.56
Tratto_1	35.250*	Q500_ietoTRIANG	31.45	2528.27	317.88	320.10	319.55	320.29	0.002511	1.94	1.29	17.51	13.52	0.50
Tratto_1	35.250*	Q2019Vserio	19.47	2528.27	317.88	319.44	319.22	319.67	0.005836	2.16	0.85	9.22	10.80	0.71
Tratto_1	35.250*	Q2019T-Boldone	15.49	2528.27	317.88	319.21	319.08	319.47	0.008059	2.24	0.79	6.92	8.75	0.80
Tratto_1	35.00	Q020_ietoTRIANG	20.33	2484.85	317.42	319.46	318.74	319.54	0.001320	1.32	1.14	16.53	14.49	0.36
Tratto_1	35.00	Q050_ietoTRIANG	23.71	2484.85	317.42	319.64	318.83	319.73	0.001154	1.34	1.33	19.22	14.49	0.34
Tratto_1	35.00	Q100_ietoTRIANG	26.26	2484.85	317.42	319.78	318.90	319.87	0.001053	1.36	1.46	21.22	14.49	0.33
Tratto_1	35.00	Q200_ietoTRIANG	28.80	2484.85	317.42	319.91	318.97	320.00	0.000973	1.37	1.60	23.16	14.49	0.32
Tratto_1	35.00	Q500_ietoTRIANG	32.19	2484.85	317.42	320.11	319.05	320.20	0.000854	1.38	1.80	26.02	14.49	0.31
Tratto_1	35.00	Q2019Vserio	20.00	2484.85	317.42	319.44	318.73	319.52	0.001336	1.32	1.12	16.28	14.49	0.36
Tratto_1	35.00	Q2019T-Boldone	15.99	2484.85	317.42	319.19	318.60	319.28	0.001708	1.30	0.88	12.74	14.49	0.39
Tratto_1	34.99		Bridge											
Tratto_1	34.98	Q020_ietoTRIANG	20.33	2481.35	317.40	319.44	318.72	319.52	0.001357	1.33	1.13	16.36	14.49	0.36
Tratto_1	34.98	Q050_ietoTRIANG	23.71	2481.35	317.40	319.63	318.82	319.72	0.001171	1.35	1.32	19.11	14.49	0.35
Tratto_1	34.98	Q100_ietoTRIANG	26.26	2481.35	317.40	319.77	318.88	319.86	0.001062	1.36	1.46	21.15	14.49	0.33
Tratto_1	34.98	Q200_ietoTRIANG	28.80	2481.35	317.40	319.90	318.96	319.99	0.000979	1.37	1.59	23.11	14.49	0.32
Tratto_1	34.98	Q500_ietoTRIANG	32.19	2481.35	317.40	320.10	319.04	320.19	0.000858	1.38	1.79	25.97	14.49	0.31
Tratto_1	34.98	Q2019Vserio	20.00	2481.35	317.40	319.42	318.72	319.51	0.001374	1.33	1.11	16.11	14.49	0.37
Tratto_1	34.98	Q2019T-Boldone	15.99	2481.35	317.40	319.18	318.58	319.27	0.001732	1.31	0.87	12.66	14.49	0.40
Tratto_1	34.00	Q020_ietoTRIANG	20.41	2452.95	317.26	319.42	318.55	319.49	0.000996	1.19	1.25	18.13	14.49	0.31
Tratto_1	34.00	Q050_ietoTRIANG	23.81	2452.95	317.26	319.61	318.65	319.68	0.000885	1.22	1.44	20.92	14.49	0.30
Tratto_1	34.00	Q100_ietoTRIANG	26.37	2452.95	317.26	319.75	318.72	319.83	0.000817	1.24	1.59	22.99	14.49	0.29
Tratto_1	34.00	Q200_ietoTRIANG	28.93	2452.95	317.26	319.89	318.78	319.97	0.000765	1.26	1.72	24.96	14.49	0.29
Tratto_1	34.00	Q500_ietoTRIANG	32.32	2452.95	317.26	320.09	318.86	320.17	0.000683	1.27	1.92	27.86	14.49	0.28
Tratto_1	34.00	Q2019Vserio	20.10	2452.95	317.26	319.40	318.54	319.47	0.001008	1.19	1.23	17.87	14.49	0.32
Tratto_1	34.00	Q2019T-Boldone	16.08	2452.95	317.26	319.15	318.41	319.22	0.001181	1.15	1.13	14.48	12.76	0.33
Tratto_1	33.00	Q020_ietoTRIANG	20.50	2421.49	317.03	318.94	318.73	319.38	0.010379	2.92	1.41	7.01	4.96	0.79
Tratto_1	33.00	Q050_ietoTRIANG	23.91	2421.49	317.03	319.09	318.86	319.57	0.010725	3.09	1.55	7.73	4.97	0.79
Tratto_1	33.00	Q100_ietoTRIANG	26.48	2421.49	317.03	319.20	318.96	319.72	0.010768	3.19	1.67	8.30	4.98	0.79
Tratto_1	33.00	Q200_ietoTRIANG	29.05	2421.49	317.03	319.30	319.05	319.86	0.010965	3.30	1.77	8.81	4.99	0.79
Tratto_1	33.00	Q500_ietoTRIANG	32.46	2421.49	317.03	319.52	319.17	320.07	0.010497	3.26	1.82	9.95	5.48	0.77
Tratto_1	33.00	Q2019Vserio	20.19	2421.49	317.03	318.93	318.72	319.36	0.010327	2.91	1.40	6.95	4.96	0.78
Tratto_1	33.00	Q2019T-Boldone	16.17	2421.49	317.03	318.74	318.51	319.11	0.009995	2.69	1.22	6.02	4.94	0.78

HEC-RAS Plan: MP_geo2g_QT20-500_ieto_cost-TRIANG River: T.Gavarnia Reach: Tratto_1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Cum Ch Len (m)	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)	Hydr Depth (m)	Flow Area (m2)	Top Width (m)	Froude # Chl
Tratto_1	32.99		Bridge											
Tratto_1	32.98	Q020_ietoTRIANG	20.50	2414.89	316.96	318.69	318.69	319.29	0.016491	3.43	1.21	5.97	4.94	1.00
Tratto_1	32.98	Q050_ietoTRIANG	23.91	2414.89	316.96	318.81	318.81	319.48	0.016797	3.62	1.33	6.61	4.95	1.00
Tratto_1	32.98	Q100_ietoTRIANG	26.48	2414.89	316.96	318.91	318.91	319.62	0.016906	3.74	1.43	7.08	4.96	1.00
Tratto_1	32.98	Q200_ietoTRIANG	29.05	2414.89	316.96	319.00	319.00	319.76	0.016992	3.85	1.52	7.55	4.97	1.00
Tratto_1	32.98	Q500_ietoTRIANG	32.46	2414.89	316.96	319.12	319.12	319.93	0.017323	4.00	1.63	8.12	4.98	1.00
Tratto_1	32.98	Q2019Vserio	20.19	2414.89	316.96	318.67	318.67	319.27	0.016666	3.43	1.19	5.89	4.94	1.00
Tratto_1	32.98	Q2019T-Boldone	16.17	2414.89	316.96	318.45	318.45	319.01	0.017002	3.32	1.12	4.87	4.34	1.00
Tratto_1	32.00	Q020_ietoTRIANG	20.56	2398.04	316.77	317.34	317.73	318.70	0.073746	5.16	0.53	3.98	7.48	2.26
Tratto_1	32.00	Q050_ietoTRIANG	23.98	2398.04	316.77	317.40	317.83	318.89	0.071570	5.40	0.59	4.44	7.58	2.25
Tratto_1	32.00	Q100_ietoTRIANG	26.56	2398.04	316.77	317.44	317.90	319.02	0.070393	5.56	0.62	4.77	7.66	2.25
Tratto_1	32.00	Q200_ietoTRIANG	29.14	2398.04	316.77	317.49	317.97	319.16	0.069459	5.72	0.66	5.09	7.73	2.25
Tratto_1	32.00	Q500_ietoTRIANG	32.56	2398.04	316.77	317.54	318.06	319.32	0.068264	5.91	0.70	5.51	7.82	2.25
Tratto_1	32.00	Q2019Vserio	20.27	2398.04	316.77	317.34	317.72	318.68	0.073546	5.13	0.53	3.95	7.48	2.25
Tratto_1	32.00	Q2019T-Boldone	16.24	2398.04	316.77	317.26	317.60	318.43	0.075456	4.78	0.46	3.40	7.35	2.24
Tratto_1	31.833*	Q020_ietoTRIANG	20.56	2353.38	316.31	317.51	317.32	317.80	0.008401	2.41	1.03	8.54	8.32	0.76
Tratto_1	31.833*	Q050_ietoTRIANG	23.98	2353.38	316.31	317.63	317.43	317.95	0.008302	2.52	1.11	9.53	8.56	0.76
Tratto_1	31.833*	Q100_ietoTRIANG	26.56	2353.38	316.31	317.71	317.50	318.05	0.008247	2.59	1.18	10.26	8.73	0.76
Tratto_1	31.833*	Q200_ietoTRIANG	29.14	2353.38	316.31	317.79	317.56	318.15	0.008212	2.66	1.23	10.96	8.90	0.76
Tratto_1	31.833*	Q500_ietoTRIANG	32.56	2353.38	316.31	317.88	317.65	318.27	0.008201	2.76	1.17	11.84	10.25	0.77
Tratto_1	31.833*	Q2019Vserio	20.27	2353.38	316.31	317.50	317.32	317.79	0.008413	2.40	1.02	8.45	8.31	0.76
Tratto_1	31.833*	Q2019T-Boldone	16.24	2353.38	316.31	317.35	317.19	317.61	0.008616	2.25	0.89	7.23	8.10	0.76
Tratto_1	31.667*	Q020_ietoTRIANG	20.56	2308.71	315.84	317.15	316.91	317.42	0.008435	2.29	1.07	8.97	8.39	0.71
Tratto_1	31.667*	Q050_ietoTRIANG	23.98	2308.71	315.84	317.28	317.01	317.57	0.008385	2.39	1.15	10.03	8.70	0.71
Tratto_1	31.667*	Q100_ietoTRIANG	26.56	2308.71	315.84	317.36	317.08	317.67	0.008353	2.46	1.21	10.80	8.92	0.71
Tratto_1	31.667*	Q200_ietoTRIANG	29.14	2308.71	315.84	317.45	317.15	317.77	0.008347	2.53	1.26	11.53	9.23	0.72
Tratto_1	31.667*	Q500_ietoTRIANG	32.56	2308.71	315.84	317.54	317.24	317.89	0.008343	2.62	1.18	12.48	10.69	0.72
Tratto_1	31.667*	Q2019Vserio	20.27	2308.71	315.84	317.14	316.90	317.41	0.008440	2.28	1.06	8.88	8.36	0.71
Tratto_1	31.667*	Q2019T-Boldone	16.24	2308.71	315.84	316.98	316.77	317.22	0.008574	2.15	0.95	7.57	7.99	0.70
Tratto_1	31.500*	Q020_ietoTRIANG	20.56	2264.05	315.38	316.78	316.48	317.03	0.008732	2.20	1.09	9.36	8.56	0.67
Tratto_1	31.500*	Q050_ietoTRIANG	23.98	2264.05	315.38	316.91	316.59	317.18	0.008708	2.29	1.17	10.48	8.94	0.68
Tratto_1	31.500*	Q100_ietoTRIANG	26.56	2264.05	315.38	317.00	316.67	317.28	0.008701	2.35	1.23	11.29	9.23	0.68
Tratto_1	31.500*	Q200_ietoTRIANG	29.14	2264.05	315.38	317.08	316.74	317.38	0.008698	2.41	1.25	12.07	9.69	0.68
Tratto_1	31.500*	Q500_ietoTRIANG	32.56	2264.05	315.38	317.18	316.83	317.50	0.008707	2.50	1.19	13.08	11.15	0.69
Tratto_1	31.500*	Q2019Vserio	20.27	2264.05	315.38	316.77	316.48	317.02	0.008731	2.19	1.09	9.27	8.53	0.67
Tratto_1	31.500*	Q2019T-Boldone	16.24	2264.05	315.38	316.60	316.35	316.82	0.008813	2.06	0.98	7.87	8.02	0.66
Tratto_1	31.333*	Q020_ietoTRIANG	20.56	2219.39	314.91	316.41	316.06	316.64	0.008630	2.10	1.11	9.81	8.87	0.64
Tratto_1	31.333*	Q050_ietoTRIANG	23.98	2219.39	314.91	316.54	316.17	316.78	0.008643	2.18	1.18	10.99	9.33	0.64
Tratto_1	31.333*	Q100_ietoTRIANG	26.56	2219.39	314.91	316.63	316.25	316.89	0.008650	2.24	1.23	11.85	9.69	0.65
Tratto_1	31.333*	Q200_ietoTRIANG	29.14	2219.39	314.91	316.72	316.32	316.99	0.008641	2.30	1.25	12.69	10.23	0.65

HEC-RAS Plan: MP_geo2g_QT20-500_ieto_cost-TRIANG River: T.Gavarnia Reach: Tratto_1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Cum Ch Len (m)	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)	Hydr Depth (m)	Flow Area (m2)	Top Width (m)	Froude # Chl
Tratto_1	31.333*	Q500_ietoTRIANG	32.56	2219.39	314.91	316.82	316.42	317.10	0.008644	2.38	1.19	13.77	11.72	0.66
Tratto_1	31.333*	Q2019Vserio	20.27	2219.39	314.91	316.40	316.05	316.62	0.008605	2.09	1.10	9.72	8.83	0.63
Tratto_1	31.333*	Q2019TBoldone	16.24	2219.39	314.91	316.23	315.91	316.43	0.008628	1.97	1.00	8.24	8.21	0.63
Tratto_1	31.167*	Q020_ietoTRIANG	20.56	2174.73	314.45	316.04	315.63	316.24	0.008731	1.98	1.11	10.41	9.37	0.60
Tratto_1	31.167*	Q050_ietoTRIANG	23.98	2174.73	314.45	316.17	315.75	316.39	0.008815	2.06	1.17	11.65	9.91	0.61
Tratto_1	31.167*	Q100_ietoTRIANG	26.56	2174.73	314.45	316.26	315.83	316.49	0.008819	2.11	1.22	12.57	10.35	0.61
Tratto_1	31.167*	Q200_ietoTRIANG	29.14	2174.73	314.45	316.35	315.90	316.59	0.008746	2.16	1.24	13.51	11.00	0.61
Tratto_1	31.167*	Q500_ietoTRIANG	32.56	2174.73	314.45	316.47	316.00	316.71	0.008301	2.20	1.17	14.88	12.84	0.60
Tratto_1	31.167*	Q2019Vserio	20.27	2174.73	314.45	316.03	315.62	316.23	0.008622	1.96	1.11	10.35	9.34	0.59
Tratto_1	31.167*	Q2019TBoldone	16.24	2174.73	314.45	315.86	315.47	316.04	0.008498	1.85	1.02	8.80	8.61	0.58
Tratto_1	31.00	Q020_ietoTRIANG	21.28	2130.07	313.98	315.92	315.21	316.04	0.002219	1.53	1.26	13.88	11.10	0.44
Tratto_1	31.00	Q050_ietoTRIANG	24.82	2130.07	313.98	316.05	315.34	316.19	0.002213	1.62	1.27	15.37	12.27	0.44
Tratto_1	31.00	Q100_ietoTRIANG	27.49	2130.07	313.98	316.15	315.42	316.29	0.002200	1.68	1.26	16.56	13.38	0.44
Tratto_1	31.00	Q200_ietoTRIANG	30.16	2130.07	313.98	316.24	315.49	316.39	0.002178	1.73	1.26	17.81	14.46	0.44
Tratto_1	31.00	Q500_ietoTRIANG	33.70	2130.07	313.98	316.36	315.59	316.52	0.002128	1.79	1.26	19.62	15.90	0.44
Tratto_1	31.00	Q2019Vserio	21.08	2130.07	313.98	315.92	315.21	316.04	0.002215	1.53	1.25	13.80	11.09	0.44
Tratto_1	31.00	Q2019TBoldone	17.01	2130.07	313.98	315.74	315.06	315.85	0.002166	1.43	1.14	11.93	10.45	0.43
Tratto_1	30.750*	Q020_ietoTRIANG	21.28	2091.47	313.72	315.85	315.06	315.93	0.003361	1.27	1.23	16.73	13.56	0.37
Tratto_1	30.750*	Q050_ietoTRIANG	24.82	2091.47	313.72	315.98	315.15	316.07	0.003354	1.34	1.35	18.57	13.88	0.37
Tratto_1	30.750*	Q100_ietoTRIANG	27.49	2091.47	313.72	316.08	315.23	316.17	0.003315	1.38	1.43	19.91	14.07	0.37
Tratto_1	30.750*	Q200_ietoTRIANG	30.16	2091.47	313.72	316.17	315.29	316.27	0.003251	1.42	1.42	21.29	15.23	0.37
Tratto_1	30.750*	Q500_ietoTRIANG	33.70	2091.47	313.72	316.30	315.37	316.41	0.003138	1.46	1.32	23.35	17.94	0.36
Tratto_1	30.750*	Q2019Vserio	21.08	2091.47	313.72	315.84	315.05	315.92	0.003354	1.27	1.23	16.64	13.54	0.36
Tratto_1	30.750*	Q2019TBoldone	17.01	2091.47	313.72	315.66	314.92	315.74	0.003300	1.19	1.12	14.33	12.74	0.36
Tratto_1	30.500*	Q020_ietoTRIANG	21.28	2052.87	313.46	315.72	315.00	315.79	0.003499	1.23	1.12	17.35	15.56	0.37
Tratto_1	30.500*	Q050_ietoTRIANG	24.82	2052.87	313.46	315.86	315.10	315.94	0.003378	1.27	1.21	19.56	16.13	0.37
Tratto_1	30.500*	Q100_ietoTRIANG	27.49	2052.87	313.46	315.96	315.16	316.04	0.003280	1.30	1.29	21.22	16.57	0.36
Tratto_1	30.500*	Q200_ietoTRIANG	30.16	2052.87	313.46	316.06	315.22	316.15	0.003113	1.32	1.39	22.90	16.64	0.36
Tratto_1	30.500*	Q500_ietoTRIANG	33.70	2052.87	313.46	316.19	315.30	316.29	0.002903	1.34	1.42	25.17	17.96	0.35
Tratto_1	30.500*	Q2019Vserio	21.08	2052.87	313.46	315.71	315.00	315.79	0.003490	1.22	1.11	17.25	15.52	0.37
Tratto_1	30.500*	Q2019TBoldone	17.01	2052.87	313.46	315.53	314.88	315.60	0.003570	1.16	1.02	14.60	14.34	0.37
Tratto_1	30.250*	Q020_ietoTRIANG	21.28	2014.28	313.19	315.53	314.99	315.63	0.005317	1.37	0.96	15.55	16.15	0.45
Tratto_1	30.250*	Q050_ietoTRIANG	24.82	2014.28	313.19	315.69	315.07	315.78	0.004774	1.36	1.04	18.19	17.52	0.43
Tratto_1	30.250*	Q100_ietoTRIANG	27.49	2014.28	313.19	315.80	315.14	315.90	0.004347	1.36	1.11	20.25	18.25	0.41
Tratto_1	30.250*	Q200_ietoTRIANG	30.16	2014.28	313.19	315.92	315.20	316.01	0.003948	1.34	1.18	22.43	19.00	0.40
Tratto_1	30.250*	Q500_ietoTRIANG	33.70	2014.28	313.19	316.07	315.28	316.16	0.003369	1.33	1.29	25.41	19.75	0.37
Tratto_1	30.250*	Q2019Vserio	21.08	2014.28	313.19	315.52	314.98	315.62	0.005311	1.36	0.96	15.45	16.09	0.44
Tratto_1	30.250*	Q2019TBoldone	17.01	2014.28	313.19	315.33	314.84	315.42	0.006158	1.37	0.87	12.42	14.33	0.47
Tratto_1	30.00	Q020_ietoTRIANG	21.70	1975.68	312.93	315.20	314.78	315.40	0.005772	2.00	0.88	10.87	12.32	0.68
Tratto_1	30.00	Q050_ietoTRIANG	25.31	1975.68	312.93	315.44	314.98	315.60	0.004285	1.78	0.91	14.25	15.61	0.59
Tratto_1	30.00	Q100_ietoTRIANG	28.02	1975.68	312.93	315.61	315.08	315.74	0.003456	1.65	0.95	16.99	17.84	0.54

HEC-RAS Plan: MP_geo2g_QT20-500_ieto_cost-TRIANG River: T.Gavarnia Reach: Tratto_1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Cum Ch Len (m)	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)	Hydr Depth (m)	Flow Area (m2)	Top Width (m)	Froude # Chl
Tratto_1	30.00	Q200_ietoTRIANG	30.75	1975.68	312.93	315.76	315.17	315.88	0.002800	1.54	1.01	19.92	19.69	0.49
Tratto_1	30.00	Q500_ietoTRIANG	34.36	1975.68	312.93	315.95	315.26	316.06	0.002186	1.43	1.09	23.96	21.93	0.44
Tratto_1	30.00	Q2019Vserio	21.55	1975.68	312.93	315.19	314.78	315.39	0.005826	2.01	0.88	10.75	12.19	0.68
Tratto_1	30.00	Q2019TBoldone	17.45	1975.68	312.93	314.89	314.62	315.15	0.007047	2.27	0.95	7.70	8.11	0.74
Tratto_1	29.99		Bridge											
Tratto_1	29.98	Q020_ietoTRIANG	21.70	1961.68	312.59	314.54	314.54	315.08	0.013299	3.25	1.07	6.68	6.24	1.00
Tratto_1	29.98	Q050_ietoTRIANG	25.31	1961.68	312.59	314.55	314.69	315.27	0.017691	3.76	1.08	6.74	6.27	1.16
Tratto_1	29.98	Q100_ietoTRIANG	28.02	1961.68	312.59	314.64	314.78	315.39	0.017498	3.84	1.12	7.30	6.52	1.16
Tratto_1	29.98	Q200_ietoTRIANG	30.75	1961.68	312.59	314.76	314.87	315.50	0.016094	3.80	1.18	8.08	6.86	1.12
Tratto_1	29.98	Q500_ietoTRIANG	34.36	1961.68	312.59	314.70	314.99	315.72	0.023165	4.48	1.15	7.66	6.68	1.34
Tratto_1	29.98	Q2019Vserio	21.55	1961.68	312.59	314.55	314.55	315.07	0.013084	3.22	1.07	6.69	6.24	0.99
Tratto_1	29.98	Q2019TBoldone	17.45	1961.68	312.59	314.37	314.37	314.86	0.013617	3.10	0.98	5.62	5.73	1.00
Tratto_1	29.00	Q020_ietoTRIANG	21.86	1914.33	311.46	312.43	312.86	313.84	0.058259	5.25	0.77	4.16	5.40	1.91
Tratto_1	29.00	Q050_ietoTRIANG	25.50	1914.33	311.46	312.58	312.99	313.92	0.046691	5.13	0.90	4.97	5.49	1.72
Tratto_1	29.00	Q100_ietoTRIANG	28.24	1914.33	311.46	313.66	313.08	313.97	0.005096	2.49	1.58	11.75	7.44	0.58
Tratto_1	29.00	Q200_ietoTRIANG	30.98	1914.33	311.46	313.90	313.17	314.19	0.004188	2.40	1.82	13.53	8.94	0.53
Tratto_1	29.00	Q500_ietoTRIANG	34.62	1914.33	311.46	314.21	313.28	314.48	0.003370	2.32	1.74	15.94	9.14	0.47
Tratto_1	29.00	Q2019Vserio	21.74	1914.33	311.46	312.43	312.85	313.84	0.058745	5.26	0.77	4.13	5.38	1.92
Tratto_1	29.00	Q2019TBoldone	17.63	1914.33	311.46	312.29	312.70	313.61	0.055965	5.10	0.77	3.45	4.51	1.86
Tratto_1	28.00	Q020_ietoTRIANG	21.88	1907.04	311.43	313.10	312.74	313.39	0.006554	2.38	1.31	9.20	7.00	0.66
Tratto_1	28.00	Q050_ietoTRIANG	25.52	1907.04	311.43	313.45	312.86	313.69	0.004466	2.19	1.62	11.66	7.21	0.55
Tratto_1	28.00	Q100_ietoTRIANG	28.26	1907.04	311.43	313.69	312.97	313.92	0.003474	2.09	1.32	13.87	10.50	0.49
Tratto_1	28.00	Q200_ietoTRIANG	31.01	1907.04	311.43	313.94	313.05	314.14	0.002701	2.00	1.56	16.42	10.50	0.44
Tratto_1	28.00	Q500_ietoTRIANG	34.65	1907.04	311.43	314.25	313.15	314.43	0.002047	1.91	1.88	19.72	10.50	0.39
Tratto_1	28.00	Q2019Vserio	21.76	1907.04	311.43	313.09	312.74	313.38	0.006647	2.39	1.30	9.12	6.99	0.67
Tratto_1	28.00	Q2019TBoldone	17.65	1907.04	311.43	312.41	312.60	313.14	0.030795	3.79	0.73	4.65	6.41	1.42
Tratto_1	27.20	Q020_ietoTRIANG	21.97	1875.48	311.36	313.11	312.38	313.28	0.001095	1.83	1.75	12.03	6.86	0.44
Tratto_1	27.20	Q050_ietoTRIANG	25.62	1875.48	311.36	313.45	312.49	313.61	0.000879	1.78	1.70	14.63	8.63	0.39
Tratto_1	27.20	Q100_ietoTRIANG	28.37	1875.48	311.36	313.70	312.56	313.85	0.000760	1.76	1.94	16.75	8.63	0.37
Tratto_1	27.20	Q200_ietoTRIANG	31.13	1875.48	311.36	313.93	312.64	314.09	0.000675	1.74	2.18	18.79	8.63	0.35
Tratto_1	27.20	Q500_ietoTRIANG	34.78	1875.48	311.36	314.24	312.74	314.39	0.000592	1.73	2.49	21.45	8.63	0.33
Tratto_1	27.20	Q2019Vserio	21.86	1875.48	311.36	313.10	312.37	313.27	0.001104	1.83	1.74	11.95	6.86	0.44
Tratto_1	27.20	Q2019TBoldone	17.74	1875.48	311.36	312.83	312.24	312.99	0.001194	1.76	1.47	10.08	6.86	0.46
Tratto_1	27.19		Bridge											
Tratto_1	27.10	Q020_ietoTRIANG	22.13	1813.07	311.01	312.98	312.06	313.13	0.000861	1.69	1.96	13.09	6.67	0.39
Tratto_1	27.10	Q050_ietoTRIANG	25.82	1813.07	311.01	313.21	312.17	313.37	0.000867	1.76	2.10	14.66	7.00	0.39
Tratto_1	27.10	Q100_ietoTRIANG	28.59	1813.07	311.01	313.38	312.25	313.54	0.000838	1.80	1.59	16.14	10.12	0.39
Tratto_1	27.10	Q200_ietoTRIANG	31.37	1813.07	311.01	313.53	312.33	313.70	0.000801	1.84	1.75	17.69	10.12	0.38
Tratto_1	27.10	Q500_ietoTRIANG	35.05	1813.07	311.01	313.72	312.43	313.90	0.000765	1.90	1.94	19.63	10.12	0.38
Tratto_1	27.10	Q2019Vserio	22.05	1813.07	311.01	312.97	312.06	313.12	0.000869	1.70	1.95	13.01	6.67	0.39

HEC-RAS Plan: MP_geo2g_QT20-500_ieto_cost-TRIANG River: T.Gavarnia Reach: Tratto_1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Cum Ch Len (m)	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)	Hydr Depth (m)	Flow Area (m2)	Top Width (m)	Froude # Chl
Tratto_1	27.10	Q2019TBoldone	17.92	1813.07	311.01	312.70	311.93	312.83	0.000882	1.60	1.68	11.19	6.67	0.39
Tratto_1	26.733*	Q020_ietoTRIANG	22.13	1772.42	310.68	312.90	312.00	313.07	0.002254	1.83	1.95	12.08	6.18	0.42
Tratto_1	26.733*	Q050_ietoTRIANG	25.82	1772.42	310.68	313.13	312.12	313.32	0.002257	1.91	2.15	13.51	6.30	0.42
Tratto_1	26.733*	Q100_ietoTRIANG	28.59	1772.42	310.68	313.29	312.22	313.49	0.002216	1.96	1.91	14.65	7.66	0.41
Tratto_1	26.733*	Q200_ietoTRIANG	31.37	1772.42	310.68	313.44	312.30	313.65	0.002139	2.01	1.85	15.90	8.60	0.41
Tratto_1	26.733*	Q500_ietoTRIANG	35.05	1772.42	310.68	313.64	312.41	313.85	0.002055	2.08	2.04	17.54	8.60	0.41
Tratto_1	26.733*	Q2019Vserio	22.05	1772.42	310.68	312.89	312.00	313.06	0.002279	1.84	1.94	12.01	6.18	0.42
Tratto_1	26.733*	Q2019TBoldone	17.92	1772.42	310.68	312.62	311.86	312.77	0.002293	1.73	1.67	10.34	6.18	0.43
Tratto_1	26.367*	Q020_ietoTRIANG	22.13	1731.78	310.34	312.70	311.94	312.93	0.005765	2.11	1.95	10.51	5.39	0.48
Tratto_1	26.367*	Q050_ietoTRIANG	25.82	1731.78	310.34	312.92	312.08	313.17	0.005861	2.21	2.14	11.70	5.46	0.48
Tratto_1	26.367*	Q100_ietoTRIANG	28.59	1731.78	310.34	313.08	312.18	313.34	0.005922	2.27	2.27	12.57	5.53	0.48
Tratto_1	26.367*	Q200_ietoTRIANG	31.37	1731.78	310.34	313.23	312.26	313.51	0.005873	2.34	2.23	13.47	6.05	0.48
Tratto_1	26.367*	Q500_ietoTRIANG	35.05	1731.78	310.34	313.42	312.38	313.71	0.005692	2.42	2.23	14.65	6.57	0.48
Tratto_1	26.367*	Q2019Vserio	22.05	1731.78	310.34	312.69	311.94	312.91	0.005850	2.12	1.93	10.42	5.39	0.49
Tratto_1	26.367*	Q2019TBoldone	17.92	1731.78	310.34	312.43	311.76	312.63	0.005773	1.99	1.67	9.02	5.39	0.49
Tratto_1	26.00	Q020_ietoTRIANG	22.69	1691.14	310.01	311.99	311.81	312.55	0.013424	3.32	1.57	6.83	4.34	0.85
Tratto_1	26.00	Q050_ietoTRIANG	26.46	1691.14	310.01	312.12	311.98	312.77	0.014661	3.58	1.68	7.40	4.39	0.88
Tratto_1	26.00	Q100_ietoTRIANG	29.30	1691.14	310.01	312.21	312.09	312.93	0.015487	3.75	1.76	7.82	4.43	0.90
Tratto_1	26.00	Q200_ietoTRIANG	32.15	1691.14	310.01	312.29	312.20	313.08	0.016475	3.93	1.83	8.18	4.47	0.93
Tratto_1	26.00	Q500_ietoTRIANG	35.92	1691.14	310.01	312.40	312.34	313.28	0.017649	4.15	1.92	8.66	4.51	0.96
Tratto_1	26.00	Q2019Vserio	22.45	1691.14	310.01	311.98	311.80	312.54	0.013324	3.30	1.57	6.79	4.34	0.84
Tratto_1	26.00	Q2019TBoldone	18.25	1691.14	310.01	311.83	311.61	312.28	0.011600	2.97	1.44	6.15	4.28	0.79
Tratto_1	25.500*	Q020_ietoTRIANG	22.69	1663.72	309.69	311.45	311.45	312.01	0.031588	3.31	1.12	6.85	6.12	1.00
Tratto_1	25.500*	Q050_ietoTRIANG	26.46	1663.72	309.69	311.58	311.58	312.19	0.031508	3.47	1.23	7.63	6.20	1.00
Tratto_1	25.500*	Q100_ietoTRIANG	29.30	1663.72	309.69	311.65	311.65	312.32	0.032469	3.62	1.30	8.10	6.24	1.01
Tratto_1	25.500*	Q200_ietoTRIANG	32.15	1663.72	309.69	311.76	311.76	312.44	0.031404	3.67	1.39	8.75	6.30	1.00
Tratto_1	25.500*	Q500_ietoTRIANG	35.92	1663.72	309.69	311.87	311.87	312.60	0.031439	3.80	1.48	9.46	6.37	1.00
Tratto_1	25.500*	Q2019Vserio	22.45	1663.72	309.69	311.44	311.44	312.00	0.031732	3.30	1.11	6.79	6.11	1.00
Tratto_1	25.500*	Q2019TBoldone	18.25	1663.72	309.69	311.29	311.29	311.78	0.031609	3.09	0.98	5.91	6.02	1.00
Tratto_1	25.00	Q020_ietoTRIANG	22.94	1636.31	309.37	311.07	310.74	311.37	0.006015	2.44	1.26	9.39	7.44	0.69
Tratto_1	25.00	Q050_ietoTRIANG	26.75	1636.31	309.37	311.20	310.87	311.54	0.006205	2.58	1.34	10.39	7.75	0.71
Tratto_1	25.00	Q100_ietoTRIANG	29.62	1636.31	309.37	311.32	310.96	311.67	0.005942	2.60	1.41	11.38	8.05	0.70
Tratto_1	25.00	Q200_ietoTRIANG	32.50	1636.31	309.37	311.46	311.05	311.80	0.005504	2.61	1.36	12.51	9.22	0.68
Tratto_1	25.00	Q500_ietoTRIANG	36.32	1636.31	309.37	311.62	311.16	311.97	0.004967	2.61	1.30	14.19	10.88	0.65
Tratto_1	25.00	Q2019Vserio	22.63	1636.31	309.37	311.06	310.73	311.36	0.005997	2.43	1.25	9.30	7.41	0.69
Tratto_1	25.00	Q2019TBoldone	18.40	1636.31	309.37	310.90	310.58	311.16	0.005659	2.25	1.16	8.17	7.04	0.67
Tratto_1	24.00	Q020_ietoTRIANG	23.06	1609.00	309.09	310.70	310.63	311.17	0.007782	3.04	1.09	7.58	6.94	0.93
Tratto_1	24.00	Q050_ietoTRIANG	26.89	1609.00	309.09	310.96	310.77	311.37	0.005735	2.83	1.25	9.49	7.60	0.81
Tratto_1	24.00	Q100_ietoTRIANG	29.78	1609.00	309.09	311.14	310.86	311.52	0.004751	2.73	1.39	10.90	7.83	0.74
Tratto_1	24.00	Q200_ietoTRIANG	32.68	1609.00	309.09	311.31	310.95	311.67	0.004041	2.66	1.30	12.41	9.54	0.69
Tratto_1	24.00	Q500_ietoTRIANG	36.51	1609.00	309.09	311.51	311.04	311.86	0.003328	2.61	1.26	14.49	11.52	0.64

HEC-RAS Plan: MP_geo2g_QT20-500_ieto_cost-TRIANG River: T.Gavarnia Reach: Tratto_1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Cum Ch Len (m)	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)	Hydr Depth (m)	Flow Area (m2)	Top Width (m)	Froude # Chl
Tratto_1	24.00	Q2019Vserio	22.72	1609.00	309.09	310.67	310.62	311.15	0.008077	3.07	1.08	7.39	6.87	0.95
Tratto_1	24.00	Q2019T-Boldone	18.47	1609.00	309.09	310.46	310.46	310.94	0.009293	3.06	0.96	6.03	6.31	1.00
Tratto_1	23.00	Q020_ieto-TRIANG	23.16	1586.12	308.81	310.84	310.07	311.00	0.001773	1.76	1.56	13.17	8.43	0.45
Tratto_1	23.00	Q050_ieto-TRIANG	27.02	1586.12	308.81	311.06	310.18	311.23	0.001645	1.79	1.74	15.10	8.66	0.43
Tratto_1	23.00	Q100_ieto-TRIANG	29.92	1586.12	308.81	311.22	310.26	311.39	0.002006	1.82	1.50	16.47	10.97	0.47
Tratto_1	23.00	Q200_ieto-TRIANG	32.82	1586.12	308.81	311.39	310.33	311.56	0.001738	1.79	1.67	18.36	13.21	0.44
Tratto_1	23.00	Q500_ieto-TRIANG	36.68	1586.12	308.81	311.60	310.43	311.75	0.001473	1.77	1.38	21.55	15.63	0.41
Tratto_1	23.00	Q2019Vserio	22.80	1586.12	308.81	310.82	310.06	310.98	0.001778	1.75	1.55	12.99	8.36	0.45
Tratto_1	23.00	Q2019T-Boldone	18.53	1586.12	308.81	310.60	309.93	310.74	0.001695	1.65	1.48	11.24	7.62	0.43
Tratto_1	22.99		Bridge											
Tratto_1	22.98	Q020_ieto-TRIANG	23.16	1572.12	308.69	310.83	309.95	310.97	0.001502	1.66	1.66	13.94	8.39	0.41
Tratto_1	22.98	Q050_ieto-TRIANG	27.02	1572.12	308.69	311.01	310.06	311.16	0.001543	1.75	1.78	15.46	8.66	0.42
Tratto_1	22.98	Q100_ieto-TRIANG	29.92	1572.12	308.69	311.13	310.14	311.30	0.001554	1.81	1.91	16.54	8.66	0.42
Tratto_1	22.98	Q200_ieto-TRIANG	32.82	1572.12	308.69	311.26	310.21	311.43	0.001926	1.84	1.62	17.79	10.97	0.46
Tratto_1	22.98	Q500_ieto-TRIANG	36.68	1572.12	308.69	311.41	310.31	311.59	0.001844	1.89	1.77	19.43	13.76	0.45
Tratto_1	22.98	Q2019Vserio	22.80	1572.12	308.69	310.81	309.94	310.95	0.001502	1.66	1.66	13.77	8.32	0.41
Tratto_1	22.98	Q2019T-Boldone	18.53	1572.12	308.69	310.59	309.81	310.71	0.001387	1.54	1.59	12.04	7.59	0.39
Tratto_1	22.00	Q020_ieto-TRIANG	23.32	1552.38	308.57	310.27	310.27	310.86	0.009120	3.41	1.13	6.88	6.07	1.00
Tratto_1	22.00	Q050_ieto-TRIANG	27.19	1552.38	308.57	310.42	310.42	311.05	0.008700	3.53	1.22	7.81	6.42	0.99
Tratto_1	22.00	Q100_ieto-TRIANG	30.12	1552.38	308.57	310.52	310.52	311.19	0.008488	3.64	1.20	8.45	7.03	0.98
Tratto_1	22.00	Q200_ieto-TRIANG	33.04	1552.38	308.57	310.62	310.62	311.31	0.008029	3.71	1.15	9.22	7.99	0.97
Tratto_1	22.00	Q500_ieto-TRIANG	36.92	1552.38	308.57	310.74	310.74	311.47	0.007666	3.82	1.25	10.19	8.15	0.96
Tratto_1	22.00	Q2019Vserio	22.91	1552.38	308.57	310.26	310.26	310.84	0.009145	3.40	1.12	6.79	6.04	1.00
Tratto_1	22.00	Q2019T-Boldone	18.63	1552.38	308.57	310.09	310.09	310.61	0.009507	3.22	1.03	5.80	5.65	1.00
Tratto_1	21.667*	Q020_ieto-TRIANG	23.32	1503.65	307.88	309.50	309.61	310.18	0.024099	3.65	1.01	6.39	6.35	1.16
Tratto_1	21.667*	Q050_ieto-TRIANG	27.19	1503.65	307.88	309.59	309.74	310.36	0.025534	3.90	1.08	6.98	6.45	1.20
Tratto_1	21.667*	Q100_ieto-TRIANG	30.12	1503.65	307.88	309.66	309.85	310.50	0.026308	4.06	1.14	7.42	6.53	1.22
Tratto_1	21.667*	Q200_ieto-TRIANG	33.04	1503.65	307.88	309.71	310.07	310.63	0.027687	4.25	1.18	7.78	6.60	1.25
Tratto_1	21.667*	Q500_ieto-TRIANG	36.92	1503.65	307.88	309.79	310.18	310.80	0.028097	4.45	1.08	8.32	7.74	1.27
Tratto_1	21.667*	Q2019Vserio	22.91	1503.65	307.88	309.49	309.59	310.15	0.023964	3.62	1.00	6.33	6.34	1.16
Tratto_1	21.667*	Q2019T-Boldone	18.63	1503.65	307.88	309.55	309.44	309.94	0.013126	2.76	1.05	6.76	6.42	0.86
Tratto_1	21.333*	Q020_ieto-TRIANG	23.32	1454.92	307.20	308.80	308.80	309.33	0.022319	3.21	1.05	7.26	6.91	1.00
Tratto_1	21.333*	Q050_ieto-TRIANG	27.19	1454.92	307.20	309.41	308.93	309.65	0.006804	2.24	0.62	14.00	22.41	0.57
Tratto_1	21.333*	Q100_ieto-TRIANG	30.12	1454.92	307.20	309.52	309.02	309.75	0.006045	2.20	0.74	16.56	22.47	0.54
Tratto_1	21.333*	Q200_ieto-TRIANG	33.04	1454.92	307.20	309.63	309.12	309.84	0.005341	2.16	0.84	19.04	22.60	0.51
Tratto_1	21.333*	Q500_ieto-TRIANG	36.92	1454.92	307.20	309.73	309.35	309.94	0.005104	2.19	0.94	21.29	22.72	0.51
Tratto_1	21.333*	Q2019Vserio	22.91	1454.92	307.20	308.79	308.79	309.31	0.022095	3.19	1.04	7.19	6.89	1.00
Tratto_1	21.333*	Q2019T-Boldone	18.63	1454.92	307.20	308.64	308.64	309.11	0.022702	3.03	0.94	6.15	6.55	1.00
Tratto_1	21.00	Q020_ieto-TRIANG	23.98	1406.19	306.51	308.84	307.91	308.96	0.000572	1.56	0.67	20.00	30.00	0.37
Tratto_1	21.00	Q050_ieto-TRIANG	27.97	1406.19	306.51	309.51	308.03	309.56	0.000213	1.12	1.34	40.11	30.00	0.23

HEC-RAS Plan: MP_geo2g_QT20-500_ieto_cost-TRIANG River: T.Gavarnia Reach: Tratto_1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Cum Ch Len (m)	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)	Hydr Depth (m)	Flow Area (m2)	Top Width (m)	Froude # Chl
Tratto_1	21.00	Q100_ietoTRIANG	30.97	1406.19	306.51	309.61	308.12	309.67	0.000222	1.17	1.44	43.07	30.00	0.23
Tratto_1	21.00	Q200_ietoTRIANG	33.98	1406.19	306.51	309.70	308.20	309.76	0.000231	1.21	1.53	45.92	30.00	0.24
Tratto_1	21.00	Q500_ietoTRIANG	37.97	1406.19	306.51	309.80	308.31	309.86	0.000251	1.29	1.62	48.69	30.00	0.25
Tratto_1	21.00	Q2019Vserio	23.39	1406.19	306.51	308.80	307.89	308.92	0.000598	1.58	0.62	18.70	30.00	0.38
Tratto_1	21.00	Q2019T-Boldone	19.02	1406.19	306.51	308.47	307.73	308.60	0.000790	1.62	0.98	12.08	12.38	0.43
Tratto_1	20.99		Bridge											
Tratto_1	20.98	Q020_ietoTRIANG	23.98	1397.99	306.44	308.68	307.84	308.83	0.000730	1.70	0.74	16.01	21.66	0.41
Tratto_1	20.98	Q050_ietoTRIANG	27.97	1397.99	306.44	309.34	307.97	309.41	0.000270	1.23	1.18	35.47	30.00	0.25
Tratto_1	20.98	Q100_ietoTRIANG	30.97	1397.99	306.44	309.41	308.05	309.48	0.000296	1.31	1.25	37.41	30.00	0.27
Tratto_1	20.98	Q200_ietoTRIANG	33.98	1397.99	306.44	309.47	308.14	309.55	0.000320	1.38	1.31	39.33	30.00	0.28
Tratto_1	20.98	Q500_ietoTRIANG	37.97	1397.99	306.44	309.70	308.25	309.78	0.000277	1.34	1.54	46.30	30.00	0.26
Tratto_1	20.98	Q2019Vserio	23.39	1397.99	306.44	308.64	307.82	308.79	0.000748	1.70	0.78	15.24	19.61	0.42
Tratto_1	20.98	Q2019T-Boldone	19.02	1397.99	306.44	308.34	307.67	308.49	0.000933	1.71	1.28	11.15	8.69	0.46
Tratto_1	20.20	Q020_ietoTRIANG	24.07	1375.90	306.25	308.05	307.93	308.74	0.006398	3.67	1.70	6.56	3.86	0.90
Tratto_1	20.20	Q050_ietoTRIANG	28.07	1375.90	306.25	309.19	308.11	309.38	0.001499	2.12	1.11	20.01	18.00	0.40
Tratto_1	20.20	Q100_ietoTRIANG	31.09	1375.90	306.25	309.23	308.23	309.45	0.001709	2.28	1.15	20.73	18.00	0.43
Tratto_1	20.20	Q200_ietoTRIANG	34.11	1375.90	306.25	309.27	308.34	309.52	0.001915	2.44	1.19	21.45	18.00	0.46
Tratto_1	20.20	Q500_ietoTRIANG	38.11	1375.90	306.25	308.97	308.50	309.69	0.005095	3.77	2.62	10.10	17.50	0.74
Tratto_1	20.20	Q2019Vserio	23.48	1375.90	306.25	308.05	307.91	308.70	0.006112	3.59	1.70	6.55	3.86	0.88
Tratto_1	20.20	Q2019T-Boldone	19.11	1375.90	306.25	307.84	307.70	308.40	0.005846	3.34	1.48	5.73	3.86	0.87
Tratto_1	20.19		Bridge											
Tratto_1	20.10	Q020_ietoTRIANG	24.24	1319.81	305.77	307.54	307.54	308.33	0.007380	3.95	1.58	6.14	3.88	1.00
Tratto_1	20.10	Q050_ietoTRIANG	28.27	1319.81	305.77	308.05	308.05	308.54	0.003626	3.23	0.67	12.14	18.00	0.71
Tratto_1	20.10	Q100_ietoTRIANG	31.09	1319.81	305.77	307.62	308.14	308.81	0.010686	4.83	1.66	6.44	3.88	1.20
Tratto_1	20.10	Q200_ietoTRIANG	34.11	1319.81	305.77	307.93	308.22	308.84	0.006976	4.31	0.55	9.98	18.00	0.98
Tratto_1	20.10	Q500_ietoTRIANG	38.11	1319.81	305.77	308.04	308.31	308.95	0.006710	4.39	0.67	12.00	18.00	0.97
Tratto_1	20.10	Q2019Vserio	23.63	1319.81	305.77	307.52	307.52	308.29	0.007312	3.91	1.56	6.05	3.88	1.00
Tratto_1	20.10	Q2019T-Boldone	19.27	1319.81	305.77	307.33	307.32	308.00	0.006848	3.61	1.38	5.34	3.88	0.98
Tratto_1	19.825*	Q020_ietoTRIANG	24.24	1281.86	305.20	307.19	307.28	308.00	0.010970	3.98	1.31	6.09	4.64	1.11
Tratto_1	19.825*	Q050_ietoTRIANG	28.27	1281.86	305.20	307.24	307.66	308.25	0.013217	4.45	1.37	6.35	4.65	1.22
Tratto_1	19.825*	Q100_ietoTRIANG	31.30	1281.86	305.20	307.50	307.75	308.33	0.009061	4.08	0.56	8.79	15.71	1.02
Tratto_1	19.825*	Q200_ietoTRIANG	34.34	1281.86	305.20	307.49	307.83	308.51	0.011206	4.52	0.55	8.62	15.71	1.14
Tratto_1	19.825*	Q500_ietoTRIANG	38.38	1281.86	305.20	307.59	307.92	308.63	0.010815	4.62	0.65	10.22	15.71	1.13
Tratto_1	19.825*	Q2019Vserio	23.63	1281.86	305.20	307.17	307.26	307.96	0.010865	3.94	1.29	6.00	4.64	1.11
Tratto_1	19.825*	Q2019T-Boldone	19.27	1281.86	305.20	307.08	307.08	307.69	0.008912	3.46	1.21	5.58	4.62	1.00
Tratto_1	19.550*	Q020_ietoTRIANG	24.24	1243.92	304.64	306.73	306.85	307.51	0.014688	3.91	1.15	6.20	5.41	1.17
Tratto_1	19.550*	Q050_ietoTRIANG	28.27	1243.92	304.64	306.93	307.00	307.70	0.012450	3.89	1.30	7.28	5.58	1.07
Tratto_1	19.550*	Q100_ietoTRIANG	31.30	1243.92	304.64	306.91	307.25	307.88	0.015767	4.35	1.31	7.20	5.51	1.21
Tratto_1	19.550*	Q200_ietoTRIANG	34.34	1243.92	304.64	307.01	307.34	308.02	0.015198	4.45	1.15	7.76	6.72	1.20
Tratto_1	19.550*	Q500_ietoTRIANG	38.38	1243.92	304.64	307.12	307.44	308.16	0.014389	4.56	0.68	9.19	13.42	1.18

HEC-RAS Plan: MP_geo2g_QT20-500_ieto_cost-TRIANG River: T.Gavarnia Reach: Tratto_1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Cum Ch Len (m)	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)	Hydr Depth (m)	Flow Area (m2)	Top Width (m)	Froude # Chl
Tratto_1	19.550*	Q2019Vserio	23.63	1243.92	304.64	306.71	306.83	307.48	0.014713	3.88	1.13	6.09	5.41	1.17
Tratto_1	19.550*	Q2019TBoldone	19.27	1243.92	304.64	306.55	306.67	307.24	0.015453	3.69	0.97	5.22	5.38	1.20
Tratto_1	19.275*	Q020_ietoTRIANG	24.24	1205.97	304.07	306.43	306.32	306.91	0.010786	3.08	1.27	7.86	6.20	0.88
Tratto_1	19.275*	Q050_ietoTRIANG	28.27	1205.97	304.07	306.62	306.44	307.12	0.009335	3.11	1.32	9.12	6.89	0.82
Tratto_1	19.275*	Q100_ietoTRIANG	31.30	1205.97	304.07	306.83	306.54	307.27	0.007186	2.97	1.02	11.30	11.13	0.74
Tratto_1	19.275*	Q200_ietoTRIANG	34.34	1205.97	304.07	307.03	306.63	307.42	0.005519	2.82	1.22	13.63	11.13	0.66
Tratto_1	19.275*	Q500_ietoTRIANG	38.38	1205.97	304.07	307.30	306.85	307.64	0.004184	2.68	1.49	16.54	11.13	0.59
Tratto_1	19.275*	Q2019Vserio	23.63	1205.97	304.07	306.40	306.30	306.88	0.011002	3.08	1.24	7.67	6.20	0.88
Tratto_1	19.275*	Q2019TBoldone	19.27	1205.97	304.07	306.12	306.15	306.65	0.015432	3.22	0.97	5.99	6.15	1.04
Tratto_1	19.00	Q020_ietoTRIANG	24.69	1168.03	303.50	306.40	305.64	306.60	0.003741	2.01	1.42	12.53	8.84	0.48
Tratto_1	19.00	Q050_ietoTRIANG	28.80	1168.03	303.50	306.62	305.79	306.83	0.003358	2.06	1.64	14.50	8.84	0.47
Tratto_1	19.00	Q100_ietoTRIANG	31.89	1168.03	303.50	306.82	305.90	307.03	0.002931	2.05	1.84	16.29	8.84	0.45
Tratto_1	19.00	Q200_ietoTRIANG	34.99	1168.03	303.50	307.02	306.00	307.23	0.002604	2.05	2.04	18.05	8.84	0.43
Tratto_1	19.00	Q500_ietoTRIANG	39.10	1168.03	303.50	307.27	306.12	307.48	0.002298	2.06	2.29	20.27	8.84	0.41
Tratto_1	19.00	Q2019Vserio	24.05	1168.03	303.50	306.36	305.62	306.57	0.003790	1.99	1.39	12.24	8.83	0.49
Tratto_1	19.00	Q2019TBoldone	19.70	1168.03	303.50	306.12	305.43	306.31	0.004191	1.91	1.45	10.32	7.09	0.50
Tratto_1	18.99		Bridge											
Tratto_1	18.98	Q020_ietoTRIANG	24.69	1162.63	303.47	306.21	305.63	306.47	0.005379	2.24	1.52	11.04	7.25	0.57
Tratto_1	18.98	Q050_ietoTRIANG	28.80	1162.63	303.47	306.36	305.78	306.65	0.005449	2.39	1.39	12.25	8.82	0.58
Tratto_1	18.98	Q100_ietoTRIANG	31.89	1162.63	303.47	306.46	305.89	306.77	0.005473	2.48	1.49	13.15	8.84	0.59
Tratto_1	18.98	Q200_ietoTRIANG	34.99	1162.63	303.47	306.56	305.99	306.89	0.005496	2.58	1.59	14.01	8.84	0.59
Tratto_1	18.98	Q500_ietoTRIANG	39.10	1162.63	303.47	306.68	306.11	307.04	0.005564	2.70	1.70	15.07	8.84	0.60
Tratto_1	18.98	Q2019Vserio	24.05	1162.63	303.47	306.19	305.60	306.44	0.005351	2.22	1.51	10.87	7.21	0.57
Tratto_1	18.98	Q2019TBoldone	19.70	1162.63	303.47	305.99	305.42	306.21	0.005339	2.07	1.39	9.51	6.82	0.56
Tratto_1	18.490*	Q020_ietoTRIANG	24.69	1125.46	303.24	305.81	305.52	306.21	0.007922	2.82	0.97	9.33	9.57	0.71
Tratto_1	18.490*	Q050_ietoTRIANG	28.80	1125.46	303.24	305.88	305.68	306.37	0.009187	3.12	1.04	9.99	9.57	0.77
Tratto_1	18.490*	Q100_ietoTRIANG	31.89	1125.46	303.24	305.96	305.85	306.49	0.009482	3.27	1.12	10.73	9.57	0.79
Tratto_1	18.490*	Q200_ietoTRIANG	34.99	1125.46	303.24	306.03	305.94	306.60	0.009796	3.41	1.19	11.42	9.57	0.81
Tratto_1	18.490*	Q500_ietoTRIANG	39.10	1125.46	303.24	306.13	306.06	306.75	0.009928	3.56	1.29	12.39	9.57	0.82
Tratto_1	18.490*	Q2019Vserio	24.05	1125.46	303.24	305.80	305.49	306.19	0.007665	2.76	0.97	9.25	9.57	0.70
Tratto_1	18.490*	Q2019TBoldone	19.70	1125.46	303.24	305.61	305.31	305.96	0.008064	2.60	1.19	7.69	6.43	0.71
Tratto_1	18.00	Q020_ietoTRIANG	24.93	1088.30	303.01	305.19	305.19	305.82	0.012567	3.58	0.86	7.69	8.93	0.87
Tratto_1	18.00	Q050_ietoTRIANG	29.07	1088.30	303.01	305.42	305.42	306.00	0.010273	3.51	0.97	9.99	10.31	0.80
Tratto_1	18.00	Q100_ietoTRIANG	32.20	1088.30	303.01	305.52	305.52	306.12	0.010076	3.60	1.07	11.05	10.31	0.80
Tratto_1	18.00	Q200_ietoTRIANG	35.33	1088.30	303.01	305.61	305.61	306.23	0.010016	3.70	1.16	12.01	10.31	0.80
Tratto_1	18.00	Q500_ietoTRIANG	39.47	1088.30	303.01	305.71	305.71	306.37	0.010175	3.84	1.27	13.08	10.31	0.82
Tratto_1	18.00	Q2019Vserio	24.27	1088.30	303.01	305.12	305.12	305.79	0.013712	3.65	0.96	7.17	7.49	0.90
Tratto_1	18.00	Q2019TBoldone	19.92	1088.30	303.01	304.90	304.90	305.53	0.015177	3.54	1.10	5.84	5.30	0.93
Tratto_1	17.00	Q020_ietoTRIANG	25.05	1046.09	302.77	304.27	304.48	305.12	0.021417	4.07	1.02	6.15	6.03	1.29
Tratto_1	17.00	Q050_ietoTRIANG	29.22	1046.09	302.77	304.36	304.64	305.33	0.023164	4.36	1.07	6.69	6.25	1.35

HEC-RAS Plan: MP_geo2g_QT20-500_ieto_cost-TRIANG River: T.Gavarnia Reach: Tratto_1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Cum Ch Len (m)	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)	Hydr Depth (m)	Flow Area (m2)	Top Width (m)	Froude # Chl
Tratto_1	17.00	Q100_ietoTRIANG	32.36	1046.09	302.77	304.45	304.78	305.46	0.022654	4.45	1.12	7.28	6.47	1.34
Tratto_1	17.00	Q200_ietoTRIANG	35.50	1046.09	302.77	305.21	304.91	305.52	0.003982	2.58	0.98	17.34	17.63	0.61
Tratto_1	17.00	Q500_ietoTRIANG	39.67	1046.09	302.77	305.49	304.95	305.73	0.002717	2.34	1.26	22.23	17.63	0.51
Tratto_1	17.00	Q2019Vserio	24.38	1046.09	302.77	304.27	304.46	305.07	0.020445	3.97	1.02	6.14	6.03	1.26
Tratto_1	17.00	Q2019TBoldone	20.04	1046.09	302.77	304.18	304.29	304.83	0.017826	3.59	0.96	5.59	5.80	1.17
Tratto_1	16.20	Q020_ietoTRIANG	25.14	1017.85	302.65	304.47	304.04	304.76	0.004333	2.37	1.30	10.66	8.21	0.61
Tratto_1	16.20	Q050_ietoTRIANG	29.32	1017.85	302.65	304.76	304.16	305.02	0.003374	2.30	1.34	13.35	9.98	0.55
Tratto_1	16.20	Q100_ietoTRIANG	32.47	1017.85	302.65	304.86	304.25	305.15	0.003430	2.39	1.41	14.41	10.24	0.55
Tratto_1	16.20	Q200_ietoTRIANG	35.62	1017.85	302.65	305.17	304.34	305.41	0.002484	2.21	1.61	17.73	11.03	0.47
Tratto_1	16.20	Q500_ietoTRIANG	39.81	1017.85	302.65	305.43	304.46	305.66	0.002129	2.16	1.77	20.68	11.69	0.44
Tratto_1	16.20	Q2019Vserio	24.46	1017.85	302.65	304.44	304.02	304.72	0.004357	2.36	1.32	10.42	7.90	0.62
Tratto_1	16.20	Q2019TBoldone	20.12	1017.85	302.65	304.25	303.88	304.50	0.004446	2.22	1.31	9.06	6.91	0.62
Tratto_1	16.19		Bridge											
Tratto_1	16.10	Q020_ietoTRIANG	25.14	1011.45	302.58	304.14	303.98	304.59	0.005846	2.99	1.33	8.42	6.32	0.83
Tratto_1	16.10	Q050_ietoTRIANG	29.34	1011.45	302.58	304.61	304.10	304.95	0.003288	2.57	1.78	11.43	6.44	0.61
Tratto_1	16.10	Q100_ietoTRIANG	32.49	1011.45	302.58	304.67	304.20	305.06	0.003645	2.74	1.84	11.85	6.46	0.65
Tratto_1	16.10	Q200_ietoTRIANG	35.65	1011.45	302.58	305.02	304.29	305.34	0.002708	2.53	2.15	14.07	6.54	0.55
Tratto_1	16.10	Q500_ietoTRIANG	39.84	1011.45	302.58	305.26	304.40	305.59	0.002502	2.54	2.38	15.69	6.60	0.53
Tratto_1	16.10	Q2019Vserio	24.46	1011.45	302.58	304.09	303.95	304.55	0.006169	3.02	1.28	8.11	6.31	0.85
Tratto_1	16.10	Q2019TBoldone	20.12	1011.45	302.58	303.88	303.81	304.33	0.006933	2.95	1.09	6.83	6.26	0.90
Tratto_1	15.800*	Q020_ietoTRIANG	25.16	962.70	302.09	304.01	303.58	304.36	0.003079	2.61	1.64	9.65	5.88	0.65
Tratto_1	15.800*	Q050_ietoTRIANG	29.34	962.70	302.09	304.54	303.73	304.81	0.001918	2.30	2.11	12.78	6.05	0.50
Tratto_1	15.800*	Q100_ietoTRIANG	32.49	962.70	302.09	304.59	303.82	304.90	0.002207	2.48	2.16	13.08	6.07	0.54
Tratto_1	15.800*	Q200_ietoTRIANG	35.65	962.70	302.09	304.95	303.92	305.22	0.001738	2.33	2.47	15.29	6.19	0.47
Tratto_1	15.800*	Q500_ietoTRIANG	39.84	962.70	302.09	305.19	304.05	305.48	0.001678	2.37	2.68	16.83	6.27	0.46
Tratto_1	15.800*	Q2019Vserio	24.48	962.70	302.09	303.96	303.56	304.31	0.003209	2.63	1.59	9.32	5.86	0.66
Tratto_1	15.800*	Q2019TBoldone	20.14	962.70	302.09	303.76	303.41	304.07	0.003148	2.46	1.41	8.18	5.79	0.66
Tratto_1	15.500*	Q020_ietoTRIANG	25.16	913.95	301.59	303.97	303.21	304.22	0.001710	2.22	2.00	11.31	5.65	0.50
Tratto_1	15.500*	Q050_ietoTRIANG	29.34	913.95	301.59	304.50	303.35	304.71	0.001229	2.05	2.51	14.35	5.72	0.41
Tratto_1	15.500*	Q100_ietoTRIANG	32.49	913.95	301.59	304.54	303.45	304.80	0.001442	2.23	2.55	14.58	5.73	0.45
Tratto_1	15.500*	Q200_ietoTRIANG	35.65	913.95	301.59	304.91	303.56	305.14	0.001158	2.13	1.06	17.44	16.45	0.40
Tratto_1	15.500*	Q500_ietoTRIANG	39.84	913.95	301.59	305.18	303.68	305.40	0.001023	2.11	1.06	22.99	21.66	0.38
Tratto_1	15.500*	Q2019Vserio	24.48	913.95	301.59	303.91	303.18	304.17	0.001748	2.23	1.95	11.00	5.64	0.51
Tratto_1	15.500*	Q2019TBoldone	20.14	913.95	301.59	303.73	303.01	303.93	0.001561	2.02	1.77	9.95	5.62	0.49
Tratto_1	15.20	Q020_ietoTRIANG	25.59	865.20	301.10	303.97	302.75	304.14	0.000819	1.89	0.66	17.70	27.00	0.37
Tratto_1	15.20	Q050_ietoTRIANG	29.85	865.20	301.10	304.55	302.90	304.65	0.000396	1.50	1.24	33.56	27.00	0.27
Tratto_1	15.20	Q100_ietoTRIANG	33.06	865.20	301.10	304.61	303.00	304.72	0.000443	1.61	1.30	35.09	27.00	0.29
Tratto_1	15.20	Q200_ietoTRIANG	36.27	865.20	301.10	304.99	303.11	305.07	0.000301	1.43	1.68	45.43	27.00	0.24
Tratto_1	15.20	Q500_ietoTRIANG	40.53	865.20	301.10	305.26	303.25	305.33	0.000264	1.40	1.95	52.60	27.00	0.23
Tratto_1	15.20	Q2019Vserio	24.88	865.20	301.10	303.90	302.72	304.09	0.000866	1.91	0.59	16.01	27.00	0.38
Tratto_1	15.20	Q2019TBoldone	20.56	865.20	301.10	303.71	302.56	303.86	0.000791	1.73	1.53	12.46	8.14	0.36

HEC-RAS Plan: MP_geo2g_QT20-500_ieto_cost-TRIANG River: T.Gavarnia Reach: Tratto_1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Cum Ch Len (m)	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)	Hydr Depth (m)	Flow Area (m2)	Top Width (m)	Froude # Chl
Tratto_1	15.19		Bridge											
Tratto_1	15.10	Q020_ietoTRIANG	25.59	855.41	301.06	302.44	302.95	304.00	0.045872	5.53	1.00	4.63	4.63	1.77
Tratto_1	15.10	Q050_ietoTRIANG	29.85	855.41	301.06	302.52	303.11	304.33	0.050050	5.95	1.05	5.02	4.78	1.85
Tratto_1	15.10	Q100_ietoTRIANG	33.06	855.41	301.06	302.60	303.23	304.52	0.050998	6.15	1.09	5.38	4.92	1.88
Tratto_1	15.10	Q200_ietoTRIANG	36.27	855.41	301.06	302.65	303.33	304.76	0.054256	6.44	1.12	5.63	5.02	1.94
Tratto_1	15.10	Q500_ietoTRIANG	40.53	855.41	301.06	302.73	303.46	305.02	0.055808	6.70	1.17	6.05	5.17	1.98
Tratto_1	15.10	Q2019Vserio	24.88	855.41	301.06	302.42	302.92	303.95	0.045382	5.47	0.99	4.55	4.60	1.75
Tratto_1	15.10	Q2019T-Boldone	20.56	855.41	301.06	302.32	302.73	303.62	0.041998	5.05	0.93	4.07	4.39	1.68
Tratto_1	14.550*	Q020_ietoTRIANG	25.62	807.62	300.56	302.41	302.33	302.93	0.017823	3.19	1.22	8.02	6.55	0.92
Tratto_1	14.550*	Q050_ietoTRIANG	29.88	807.62	300.56	302.60	302.48	303.13	0.016367	3.22	1.32	9.28	7.05	0.89
Tratto_1	14.550*	Q100_ietoTRIANG	33.10	807.62	300.56	302.73	302.58	303.26	0.015168	3.24	1.37	10.22	7.46	0.87
Tratto_1	14.550*	Q200_ietoTRIANG	36.31	807.62	300.56	302.85	302.68	303.39	0.014201	3.26	1.35	11.20	8.28	0.85
Tratto_1	14.550*	Q500_ietoTRIANG	40.57	807.62	300.56	303.04	302.80	303.57	0.012304	3.21	1.49	12.81	8.57	0.80
Tratto_1	14.550*	Q2019Vserio	24.91	807.62	300.56	302.38	302.31	302.90	0.017941	3.18	1.21	7.84	6.48	0.92
Tratto_1	14.550*	Q2019T-Boldone	20.58	807.62	300.56	302.20	302.14	302.68	0.018848	3.09	1.11	6.67	5.99	0.93
Tratto_1	14.00	Q020_ietoTRIANG	25.89	759.83	300.05	302.24	301.74	302.49	0.004169	2.21	1.46	11.73	8.02	0.58
Tratto_1	14.00	Q050_ietoTRIANG	30.20	759.83	300.05	302.45	301.87	302.71	0.003886	2.24	1.61	13.46	8.36	0.56
Tratto_1	14.00	Q100_ietoTRIANG	33.45	759.83	300.05	302.60	301.96	302.86	0.003744	2.27	1.71	14.71	8.60	0.56
Tratto_1	14.00	Q200_ietoTRIANG	36.70	759.83	300.05	302.73	302.05	303.01	0.003646	2.31	1.79	15.88	8.85	0.55
Tratto_1	14.00	Q500_ietoTRIANG	41.00	759.83	300.05	302.96	302.16	303.22	0.003168	2.30	1.67	18.09	10.80	0.51
Tratto_1	14.00	Q2019Vserio	25.20	759.83	300.05	302.21	301.71	302.45	0.004214	2.20	1.44	11.46	7.97	0.59
Tratto_1	14.00	Q2019T-Boldone	20.81	759.83	300.05	301.98	301.56	302.21	0.004585	2.15	1.27	9.68	7.60	0.61
Tratto_1	13.500*	Q020_ietoTRIANG	25.89	731.53	299.87	302.04	301.58	302.33	0.007716	2.38	1.42	10.92	7.67	0.61
Tratto_1	13.500*	Q050_ietoTRIANG	30.20	731.53	299.87	302.27	301.70	302.56	0.006891	2.42	1.64	12.65	7.70	0.58
Tratto_1	13.500*	Q100_ietoTRIANG	33.45	731.53	299.87	302.42	301.79	302.72	0.006396	2.46	1.37	13.98	10.19	0.56
Tratto_1	13.500*	Q200_ietoTRIANG	36.70	731.53	299.87	302.56	301.88	302.87	0.005953	2.48	1.52	15.46	10.19	0.55
Tratto_1	13.500*	Q500_ietoTRIANG	41.00	731.53	299.87	302.82	301.99	303.11	0.004869	2.43	1.77	18.08	10.19	0.51
Tratto_1	13.500*	Q2019Vserio	25.20	731.53	299.87	302.00	301.56	302.29	0.007859	2.37	1.39	10.64	7.67	0.61
Tratto_1	13.500*	Q2019T-Boldone	20.81	731.53	299.87	301.76	301.41	302.04	0.008779	2.32	1.32	8.97	6.80	0.65
Tratto_1	13.00	Q020_ietoTRIANG	26.05	703.24	299.69	301.66	301.28	302.09	0.008190	2.91	1.77	8.94	5.06	0.70
Tratto_1	13.00	Q050_ietoTRIANG	30.39	703.24	299.69	301.85	301.43	302.33	0.008338	3.06	1.85	9.94	5.37	0.70
Tratto_1	13.00	Q100_ietoTRIANG	33.66	703.24	299.69	302.00	301.54	302.50	0.008119	3.13	1.37	11.04	8.07	0.69
Tratto_1	13.00	Q200_ietoTRIANG	36.92	703.24	299.69	302.16	301.65	302.66	0.007614	3.15	1.53	12.36	8.08	0.67
Tratto_1	13.00	Q500_ietoTRIANG	41.26	703.24	299.69	302.55	301.79	302.96	0.005276	2.90	1.66	15.93	9.59	0.57
Tratto_1	13.00	Q2019Vserio	25.37	703.24	299.69	301.62	301.25	302.05	0.008175	2.89	1.74	8.78	5.06	0.70
Tratto_1	13.00	Q2019T-Boldone	20.95	703.24	299.69	301.41	301.09	301.79	0.008003	2.72	1.53	7.71	5.03	0.70
Tratto_1	12.00	Q020_ietoTRIANG	26.12	680.44	299.52	301.30	301.11	301.85	0.011862	3.29	1.61	7.93	4.92	0.83
Tratto_1	12.00	Q050_ietoTRIANG	30.46	680.44	299.52	301.48	301.26	302.09	0.012109	3.47	1.79	8.79	4.92	0.83
Tratto_1	12.00	Q100_ietoTRIANG	33.74	680.44	299.52	301.62	301.38	302.26	0.012071	3.56	1.93	9.48	4.92	0.82
Tratto_1	12.00	Q200_ietoTRIANG	37.02	680.44	299.52	301.75	301.49	302.43	0.012063	3.65	2.06	10.15	4.92	0.81

HEC-RAS Plan: MP_geo2g_QT20-500_ieto_cost-TRIANG River: T.Gavarnia Reach: Tratto_1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Cum Ch Len (m)	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)	Hydr Depth (m)	Flow Area (m2)	Top Width (m)	Froude # Chl
Tratto_1	12.00	Q500_ietoTRIANG	41.36	680.44	299.52	302.30	301.62	302.80	0.007972	3.13	1.86	13.23	8.61	0.65
Tratto_1	12.00	Q2019Vserio	25.43	680.44	299.52	301.27	301.09	301.82	0.011821	3.27	1.58	7.79	4.92	0.83
Tratto_1	12.00	Q2019T-Boldone	21.00	680.44	299.52	301.08	300.92	301.56	0.011558	3.06	1.39	6.85	4.92	0.83
Tratto_1	11.99		Bridge											
Tratto_1	11.98	Q020_ietoTRIANG	26.12	671.94	299.42	301.11	301.01	301.73	0.013977	3.49	1.52	7.48	4.92	0.91
Tratto_1	11.98	Q050_ietoTRIANG	30.46	671.94	299.42	301.30	301.17	301.97	0.013537	3.61	1.72	8.44	4.92	0.88
Tratto_1	11.98	Q100_ietoTRIANG	33.74	671.94	299.42	301.46	301.28	302.14	0.013123	3.67	1.87	9.20	4.92	0.86
Tratto_1	11.98	Q200_ietoTRIANG	37.02	671.94	299.42	301.60	301.38	302.31	0.012855	3.73	2.02	9.92	4.92	0.84
Tratto_1	11.98	Q500_ietoTRIANG	41.36	671.94	299.42	301.83	301.52	302.54	0.013134	3.74	1.97	11.05	5.60	0.85
Tratto_1	11.98	Q2019Vserio	25.43	671.94	299.42	301.08	300.99	301.69	0.013986	3.47	1.49	7.33	4.92	0.91
Tratto_1	11.98	Q2019T-Boldone	21.00	671.94	299.42	300.89	300.82	301.44	0.014035	3.28	1.30	6.40	4.92	0.92
Tratto_1	11.00	Q020_ietoTRIANG	26.25	636.07	298.98	300.73	300.54	301.27	0.010753	3.25	1.57	8.07	5.15	0.83
Tratto_1	11.00	Q050_ietoTRIANG	30.61	636.07	298.98	300.98	300.70	301.52	0.009650	3.26	1.81	9.38	5.19	0.78
Tratto_1	11.00	Q100_ietoTRIANG	33.90	636.07	298.98	301.17	300.81	301.72	0.008979	3.27	1.91	10.36	5.43	0.74
Tratto_1	11.00	Q200_ietoTRIANG	37.20	636.07	298.98	301.35	300.91	301.90	0.008247	3.28	1.87	11.44	6.10	0.71
Tratto_1	11.00	Q500_ietoTRIANG	41.56	636.07	298.98	301.60	301.04	302.14	0.007330	3.27	2.08	12.99	6.25	0.68
Tratto_1	11.00	Q2019Vserio	25.57	636.07	298.98	300.69	300.52	301.23	0.010918	3.25	1.53	7.88	5.14	0.84
Tratto_1	11.00	Q2019T-Boldone	21.11	636.07	298.98	300.50	300.35	300.98	0.010777	3.06	1.35	6.90	5.11	0.84
Tratto_1	10.99		Bridge											
Tratto_1	10.98	Q020_ietoTRIANG	26.25	630.57	298.87	300.69	300.43	301.18	0.009560	3.12	1.64	8.42	5.15	0.78
Tratto_1	10.98	Q050_ietoTRIANG	30.61	630.57	298.87	300.96	300.58	301.45	0.008549	3.12	1.89	9.81	5.19	0.73
Tratto_1	10.98	Q100_ietoTRIANG	33.90	630.57	298.87	301.15	300.69	301.65	0.008032	3.14	2.03	10.81	5.32	0.70
Tratto_1	10.98	Q200_ietoTRIANG	37.20	630.57	298.87	301.33	300.80	301.84	0.007483	3.16	1.95	11.87	6.09	0.67
Tratto_1	10.98	Q500_ietoTRIANG	41.56	630.57	298.87	301.57	300.94	302.08	0.006830	3.17	2.14	13.34	6.23	0.65
Tratto_1	10.98	Q2019Vserio	25.57	630.57	298.87	300.65	300.41	301.14	0.009761	3.12	1.60	8.20	5.14	0.79
Tratto_1	10.98	Q2019T-Boldone	21.11	630.57	298.87	300.35	300.24	300.86	0.011716	3.15	1.32	6.70	5.09	0.88
Tratto_1	10.00	Q020_ietoTRIANG	26.36	597.23	298.17	300.10	299.88	300.77	0.015187	3.62	1.93	7.28	3.77	0.83
Tratto_1	10.00	Q050_ietoTRIANG	30.74	597.23	298.17	300.30	300.07	301.05	0.015924	3.82	2.13	8.04	3.77	0.84
Tratto_1	10.00	Q100_ietoTRIANG	34.04	597.23	298.17	300.45	300.20	301.25	0.016430	3.96	2.28	8.59	3.77	0.84
Tratto_1	10.00	Q200_ietoTRIANG	37.35	597.23	298.17	300.59	300.33	301.44	0.016934	4.10	2.42	9.12	3.77	0.84
Tratto_1	10.00	Q500_ietoTRIANG	41.74	597.23	298.17	300.77	300.49	301.69	0.017571	4.26	2.60	9.80	3.77	0.84
Tratto_1	10.00	Q2019Vserio	25.68	597.23	298.17	300.07	299.85	300.73	0.015076	3.59	1.90	7.16	3.77	0.83
Tratto_1	10.00	Q2019T-Boldone	21.20	597.23	298.17	299.85	299.65	300.42	0.014248	3.34	1.68	6.34	3.77	0.82
Tratto_1	9.99		Bridge											
Tratto_1	9.00	Q020_ietoTRIANG	26.36	573.82	297.96	299.35	299.35	300.02	0.016241	3.63	1.35	7.28	5.38	1.00
Tratto_1	9.00	Q050_ietoTRIANG	30.74	573.82	297.96	299.49	299.49	300.24	0.016580	3.83	1.49	8.05	5.39	1.00
Tratto_1	9.00	Q100_ietoTRIANG	34.04	573.82	297.96	299.60	299.60	300.39	0.016649	3.95	1.60	8.64	5.39	1.00
Tratto_1	9.00	Q200_ietoTRIANG	37.35	573.82	297.96	299.70	299.70	300.55	0.016877	4.08	1.70	9.18	5.40	1.00
Tratto_1	9.00	Q500_ietoTRIANG	41.74	573.82	297.96	299.59	299.82	300.79	0.025140	4.85	1.60	8.61	5.39	1.23

HEC-RAS Plan: MP_geo2g_QT20-500_ieto_cost-TRIANG River: T.Gavarnia Reach: Tratto_1 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Cum Ch Len (m)	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)	Hydr Depth (m)	Flow Area (m2)	Top Width (m)	Froude # Chl
Tratto_1	9.00	Q2019Vserio	25.75	573.82	297.96	299.32	299.32	299.98	0.016327	3.61	1.33	7.14	5.38	1.00
Tratto_1	9.00	Q2019T-Boldone	21.26	573.82	297.96	299.16	299.16	299.75	0.016056	3.38	1.17	6.29	5.37	1.00
Tratto_1	8.00	Q020_ietoTRIANG	26.49	548.70	297.50	299.35	298.87	299.64	0.005243	2.39	1.62	11.10	6.87	0.60
Tratto_1	8.00	Q050_ietoTRIANG	30.90	548.70	297.50	299.53	299.00	299.85	0.005223	2.50	1.48	12.39	8.38	0.60
Tratto_1	8.00	Q100_ietoTRIANG	34.22	548.70	297.50	299.66	299.09	300.00	0.005126	2.57	1.61	13.49	8.38	0.59
Tratto_1	8.00	Q200_ietoTRIANG	37.55	548.70	297.50	299.79	299.18	300.14	0.005021	2.64	1.74	14.57	8.39	0.59
Tratto_1	8.00	Q500_ietoTRIANG	41.96	548.70	297.50	299.95	299.29	300.33	0.004889	2.71	1.90	15.97	8.39	0.58
Tratto_1	8.00	Q2019Vserio	25.83	548.70	297.50	299.32	298.86	299.60	0.005234	2.37	1.59	10.91	6.86	0.60
Tratto_1	8.00	Q2019T-Boldone	21.32	548.70	297.50	299.12	298.72	299.37	0.005247	2.23	1.40	9.56	6.85	0.60
Tratto_1	7.5000*	Q020_ietoTRIANG	26.49	516.38	296.99	298.70	298.70	299.34	0.014392	3.52	1.27	7.52	5.90	1.00
Tratto_1	7.5000*	Q050_ietoTRIANG	30.90	516.38	296.99	298.84	298.84	299.54	0.014599	3.71	1.41	8.32	5.91	1.00
Tratto_1	7.5000*	Q100_ietoTRIANG	34.22	516.38	296.99	298.94	298.94	299.69	0.014706	3.84	1.51	8.91	5.91	1.00
Tratto_1	7.5000*	Q200_ietoTRIANG	37.55	516.38	296.99	299.04	299.04	299.84	0.014818	3.96	1.60	9.49	5.92	1.00
Tratto_1	7.5000*	Q500_ietoTRIANG	41.96	516.38	296.99	299.16	299.16	300.02	0.014973	4.10	1.73	10.23	5.92	1.00
Tratto_1	7.5000*	Q2019Vserio	25.83	516.38	296.99	298.68	298.68	299.31	0.014477	3.50	1.25	7.37	5.90	1.00
Tratto_1	7.5000*	Q2019T-Boldone	21.32	516.38	296.99	298.53	298.53	299.08	0.014431	3.29	1.10	6.47	5.89	1.00
Tratto_1	7.00	Q020_ietoTRIANG	26.68	484.07	296.48	298.39	297.99	298.83	0.008761	2.95	1.83	9.04	4.93	0.70
Tratto_1	7.00	Q050_ietoTRIANG	31.12	484.07	296.48	298.46	298.15	299.02	0.010643	3.30	1.91	9.42	4.94	0.76
Tratto_1	7.00	Q100_ietoTRIANG	34.46	484.07	296.48	298.54	298.26	299.17	0.011688	3.51	1.98	9.81	4.95	0.80
Tratto_1	7.00	Q200_ietoTRIANG	37.81	484.07	296.48	298.61	298.37	299.32	0.012786	3.72	2.05	10.16	4.95	0.83
Tratto_1	7.00	Q500_ietoTRIANG	42.25	484.07	296.48	298.70	298.51	299.51	0.014323	4.00	2.13	10.57	4.96	0.87
Tratto_1	7.00	Q2019Vserio	26.02	484.07	296.48	298.36	297.97	298.79	0.008746	2.93	1.80	8.88	4.93	0.70
Tratto_1	7.00	Q2019T-Boldone	21.48	484.07	296.48	298.11	297.80	298.51	0.008928	2.80	1.56	7.68	4.92	0.71
Tratto_1	6.00	Q020_ietoTRIANG	26.77	453.21	295.64	298.26	297.83	298.56	0.006392	2.42	1.34	11.50	8.59	0.62
Tratto_1	6.00	Q050_ietoTRIANG	31.22	453.21	295.64	298.31	297.98	298.68	0.007873	2.73	1.38	11.91	8.62	0.69
Tratto_1	6.00	Q100_ietoTRIANG	34.57	453.21	295.64	298.40	298.08	298.81	0.008051	2.84	1.47	12.70	8.67	0.70
Tratto_1	6.00	Q200_ietoTRIANG	37.93	453.21	295.64	298.49	298.18	298.93	0.008238	2.96	1.54	13.45	8.71	0.71
Tratto_1	6.00	Q500_ietoTRIANG	42.39	453.21	295.64	298.60	298.29	299.07	0.008478	3.10	1.64	14.40	8.77	0.73
Tratto_1	6.00	Q2019Vserio	26.11	453.21	295.64	298.22	297.80	298.52	0.006695	2.43	1.30	11.11	8.57	0.63
Tratto_1	6.00	Q2019T-Boldone	21.55	453.21	295.64	297.54	297.34	298.14	0.014434	3.43	1.71	6.28	3.67	0.84
Tratto_1	5.99	Bridge												
Tratto_1	5.98	Q020_ietoTRIANG	26.77	449.51	295.56	297.79	297.79	298.37	0.018135	3.38	1.17	7.91	8.11	1.00
Tratto_1	5.98	Q050_ietoTRIANG	31.22	449.51	295.56	297.83	297.93	298.57	0.022127	3.81	1.21	8.20	8.14	1.10
Tratto_1	5.98	Q100_ietoTRIANG	34.57	449.51	295.56	297.95	298.04	298.70	0.020246	3.83	1.08	9.10	8.43	1.07
Tratto_1	5.98	Q200_ietoTRIANG	37.93	449.51	295.56	298.05	298.13	298.82	0.019129	3.88	1.17	9.96	8.48	1.05
Tratto_1	5.98	Q500_ietoTRIANG	42.39	449.51	295.56	298.18	298.25	298.97	0.017729	3.94	1.30	11.10	8.55	1.02
Tratto_1	5.98	Q2019Vserio	26.11	449.51	295.56	297.76	297.76	298.34	0.018390	3.37	1.15	7.75	8.10	1.00
Tratto_1	5.98	Q2019T-Boldone	21.55	449.51	295.56	297.27	297.27	298.04	0.020196	3.89	1.54	5.54	3.59	1.00
Tratto_1	5.00	Q020_ietoTRIANG	26.84	425.91	295.05	297.31	296.74	297.65	0.005830	2.60	1.83	10.32	5.64	0.61
Tratto_1	5.00	Q050_ietoTRIANG	31.31	425.91	295.05	297.59	296.90	297.93	0.004996	2.62	1.30	12.40	9.53	0.58

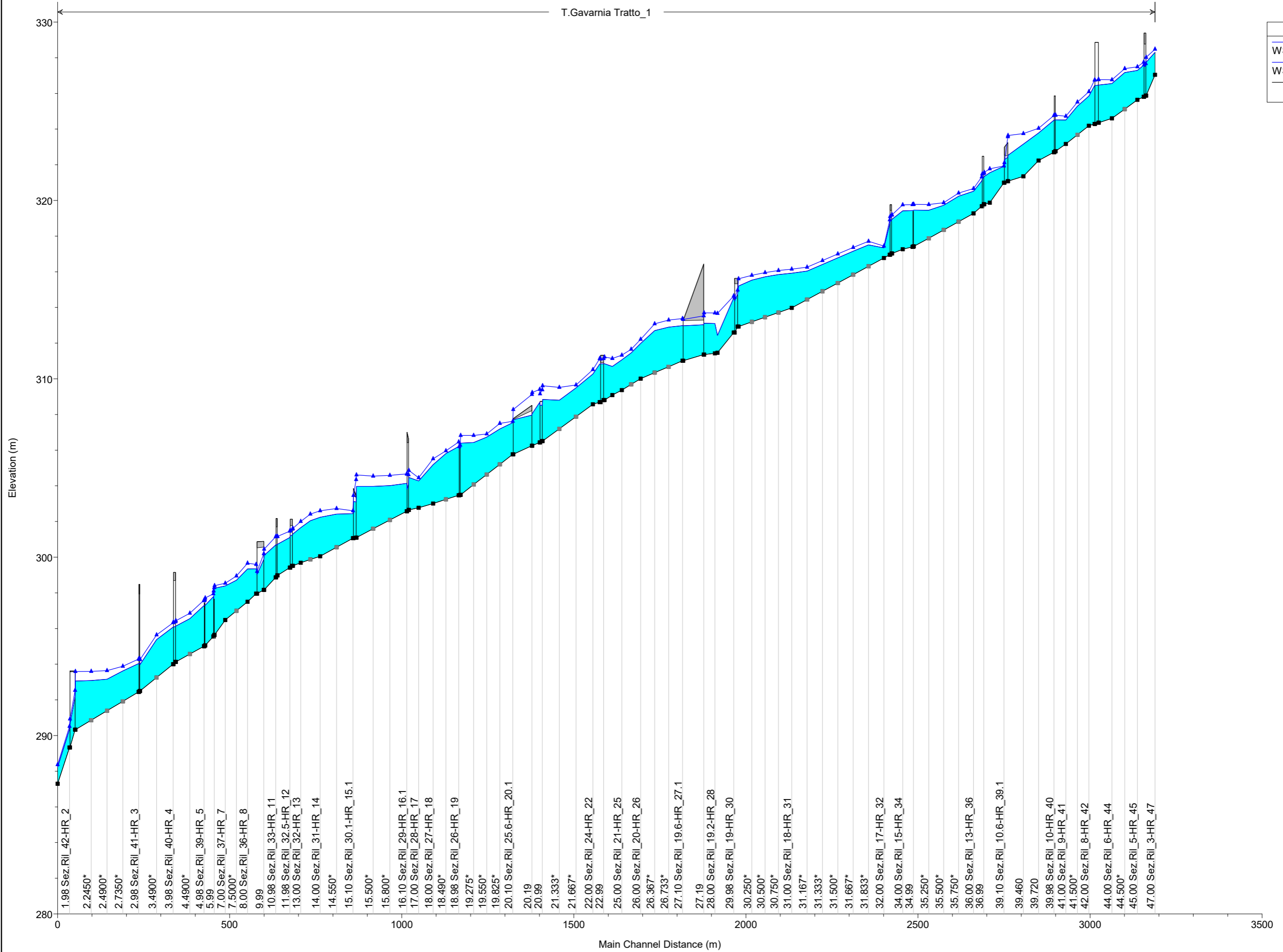
HEC-RAS Plan: MP_geo2g_QT20-500_ieto_cost-TRIANG River: T.Gavarnia Reach: Tratto_1 (Continued)

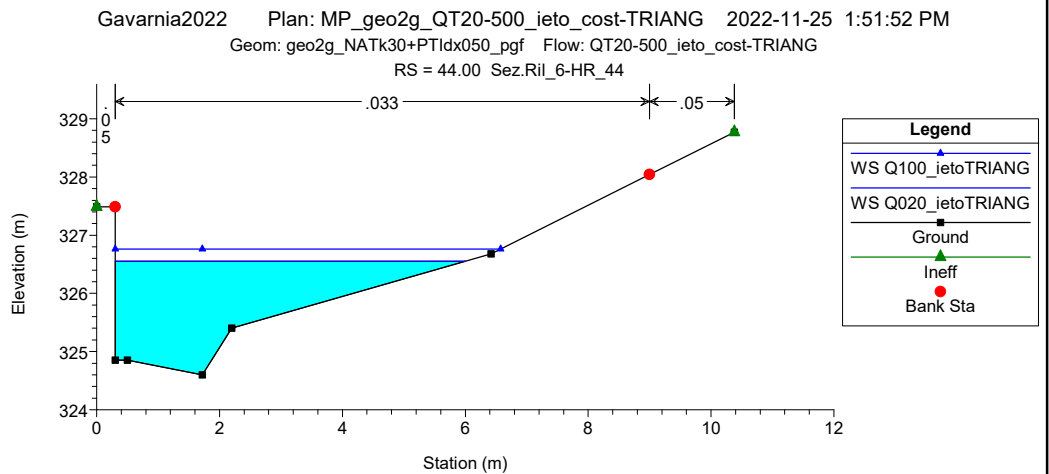
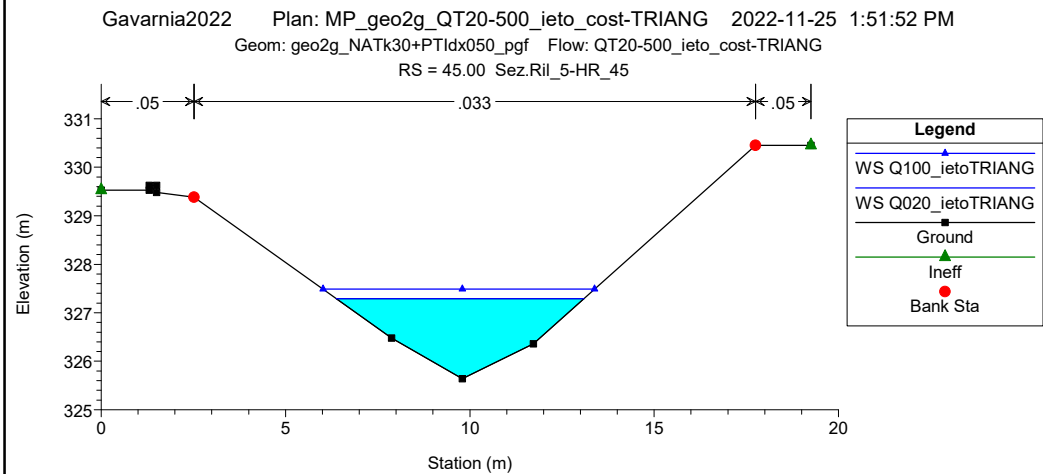
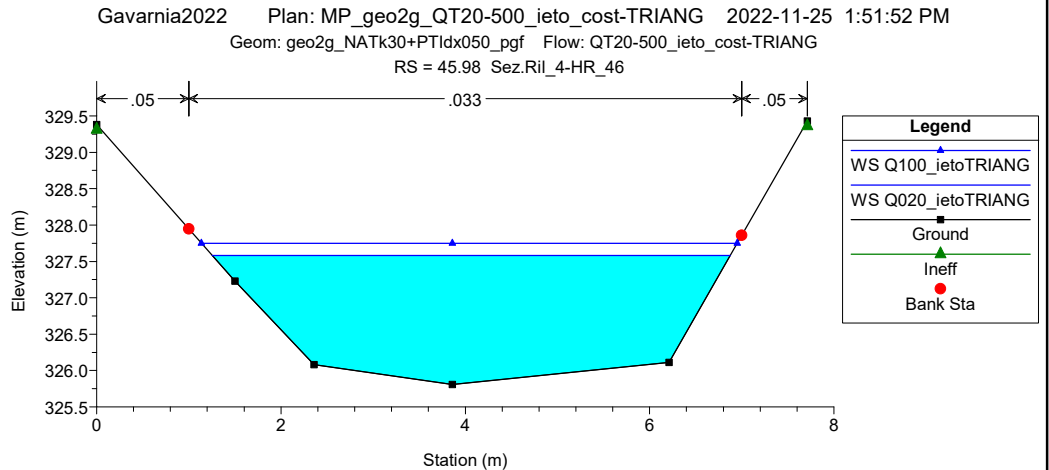
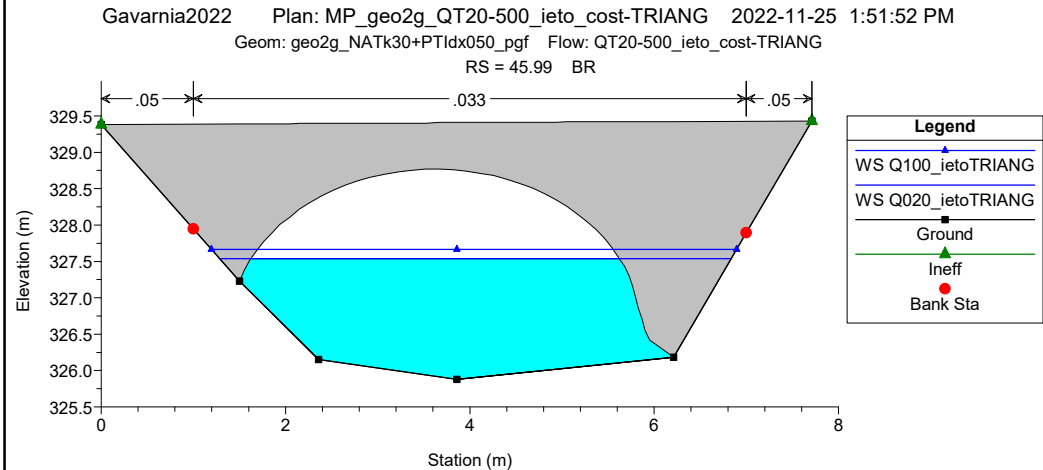
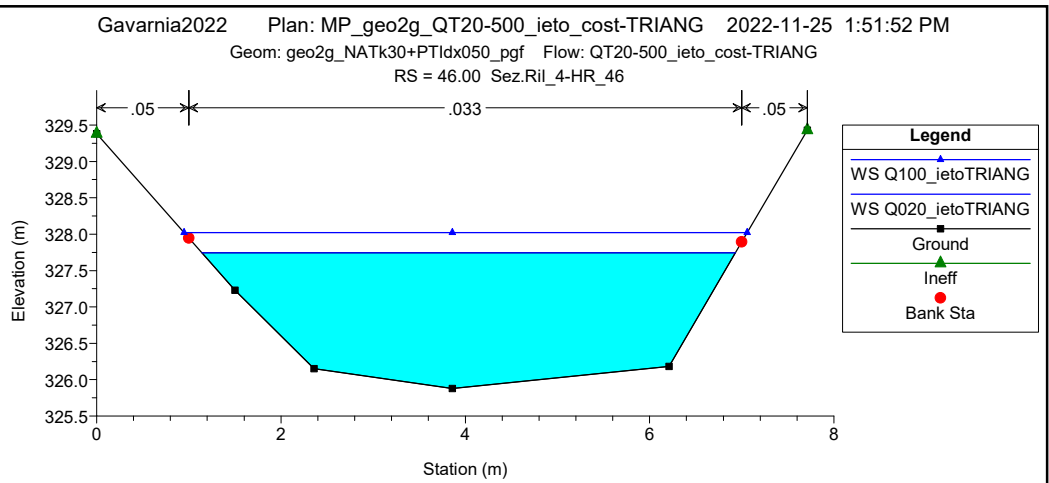
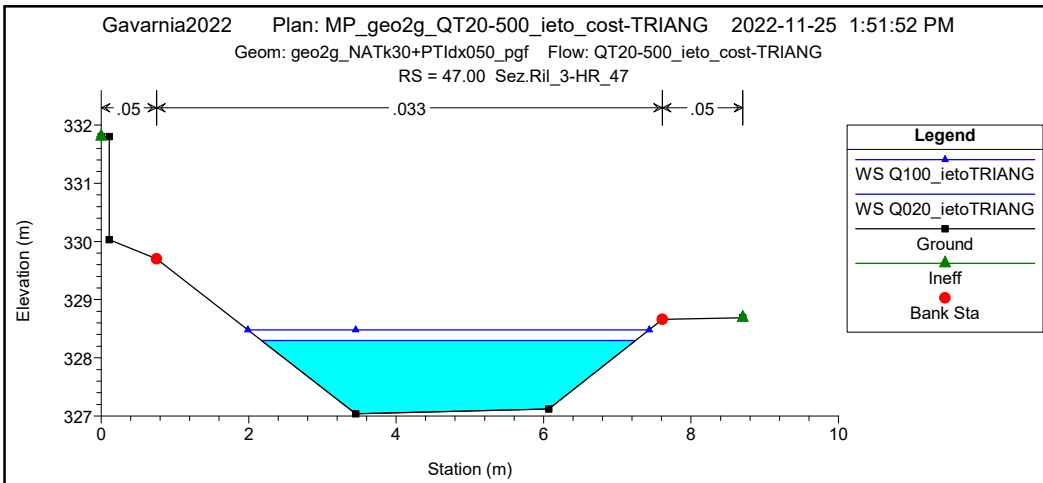
Reach	River Sta	Profile	Q Total (m3/s)	Cum Ch Len (m)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Hydr Depth (m)	Flow Area (m2)	Top Width (m)	Froude # Chl
Tratto_1	5.00	Q100_ietoTRIANG	34.67	425.91	295.05	297.71	297.01	298.08	0.004986	2.71	1.35	13.61	10.06	0.58
Tratto_1	5.00	Q200_ietoTRIANG	38.04	425.91	295.05	297.81	297.12	298.20	0.005108	2.83	1.43	14.60	10.23	0.59
Tratto_1	5.00	Q500_ietoTRIANG	42.51	425.91	295.05	297.92	297.27	298.36	0.005293	2.97	1.51	15.80	10.43	0.61
Tratto_1	5.00	Q2019Vserio	26.19	425.91	295.05	297.27	296.72	297.61	0.005835	2.59	1.80	10.13	5.62	0.61
Tratto_1	5.00	Q2019TBoldone	21.62	425.91	295.05	297.06	296.55	297.35	0.005539	2.42	1.65	8.94	5.42	0.60
Tratto_1	4.99	Bridge												
Tratto_1	4.98	Q020_ietoTRIANG	26.84	422.21	295.01	297.29	296.70	297.63	0.005674	2.58	1.85	10.42	5.63	0.60
Tratto_1	4.98	Q050_ietoTRIANG	31.31	422.21	295.01	297.47	296.86	297.85	0.005770	2.73	1.37	11.59	8.49	0.61
Tratto_1	4.98	Q100_ietoTRIANG	34.67	422.21	295.01	297.59	296.98	298.00	0.005828	2.84	1.32	12.64	9.56	0.62
Tratto_1	4.98	Q200_ietoTRIANG	38.04	422.21	295.01	297.68	297.09	298.13	0.005995	2.97	1.35	13.57	10.02	0.63
Tratto_1	4.98	Q500_ietoTRIANG	42.51	422.21	295.01	297.82	297.23	298.29	0.006038	3.09	1.45	14.90	10.25	0.64
Tratto_1	4.98	Q2019Vserio	26.19	422.21	295.01	297.26	296.68	297.59	0.005609	2.56	1.85	10.24	5.54	0.60
Tratto_1	4.98	Q2019TBoldone	21.62	422.21	295.01	297.04	296.51	297.33	0.005347	2.39	1.67	9.05	5.42	0.59
Tratto_1	4.4900*	Q020_ietoTRIANG	26.84	381.40	294.57	296.56	296.56	297.24	0.014312	3.67	1.38	7.31	5.31	1.00
Tratto_1	4.4900*	Q050_ietoTRIANG	31.31	381.40	294.57	296.72	296.72	297.46	0.014354	3.83	1.49	8.18	5.49	1.00
Tratto_1	4.4900*	Q100_ietoTRIANG	34.67	381.40	294.57	296.86	296.86	297.62	0.013468	3.87	1.26	9.05	7.18	0.98
Tratto_1	4.4900*	Q200_ietoTRIANG	38.04	381.40	294.57	297.01	297.01	297.76	0.012185	3.85	1.27	10.20	8.02	0.93
Tratto_1	4.4900*	Q500_ietoTRIANG	42.51	381.40	294.57	297.15	297.15	297.93	0.011701	3.94	1.36	11.39	8.40	0.92
Tratto_1	4.4900*	Q2019Vserio	26.19	381.40	294.57	296.53	296.53	297.21	0.014257	3.64	1.36	7.19	5.28	1.00
Tratto_1	4.4900*	Q2019TBoldone	21.62	381.40	294.57	296.35	296.35	296.96	0.014364	3.47	1.23	6.23	5.08	1.00
Tratto_1	4.00	Q020_ietoTRIANG	27.09	340.59	294.13	296.14	295.85	296.65	0.010035	3.18	1.70	8.52	5.01	0.78
Tratto_1	4.00	Q050_ietoTRIANG	31.59	340.59	294.13	296.31	296.02	296.88	0.010028	3.34	1.27	9.81	7.72	0.78
Tratto_1	4.00	Q100_ietoTRIANG	34.99	340.59	294.13	296.43	296.15	297.03	0.009959	3.43	1.38	10.75	7.77	0.78
Tratto_1	4.00	Q200_ietoTRIANG	38.39	340.59	294.13	296.56	296.37	297.17	0.009701	3.50	1.50	11.75	7.82	0.78
Tratto_1	4.00	Q500_ietoTRIANG	42.90	340.59	294.13	296.71	296.51	297.35	0.009668	3.61	1.63	12.87	7.88	0.78
Tratto_1	4.00	Q2019Vserio	26.45	340.59	294.13	296.11	295.83	296.62	0.009956	3.15	1.68	8.40	4.99	0.78
Tratto_1	4.00	Q2019TBoldone	21.82	340.59	294.13	295.93	295.65	296.36	0.009357	2.92	1.52	7.47	4.90	0.76
Tratto_1	3.99	Bridge												
Tratto_1	3.98	Q020_ietoTRIANG	27.09	332.59	294.00	296.08	295.73	296.56	0.009082	3.06	1.77	8.84	5.00	0.74
Tratto_1	3.98	Q050_ietoTRIANG	31.59	332.59	294.00	296.22	295.89	296.78	0.009830	3.30	1.26	9.73	7.71	0.77
Tratto_1	3.98	Q100_ietoTRIANG	34.99	332.59	294.00	296.32	296.02	296.92	0.010212	3.45	1.36	10.50	7.74	0.78
Tratto_1	3.98	Q200_ietoTRIANG	38.39	332.59	294.00	296.42	296.13	297.07	0.010428	3.57	1.45	11.29	7.78	0.79
Tratto_1	3.98	Q500_ietoTRIANG	42.90	332.59	294.00	296.56	296.39	297.24	0.010561	3.71	1.57	12.33	7.84	0.80
Tratto_1	3.98	Q2019Vserio	26.45	332.59	294.00	296.06	295.71	296.52	0.008969	3.03	1.75	8.73	4.99	0.73
Tratto_1	3.98	Q2019TBoldone	21.82	332.59	294.00	295.88	295.52	296.27	0.008178	2.78	1.60	7.85	4.91	0.70
Tratto_1	3.4900*	Q020_ietoTRIANG	27.09	284.56	293.25	295.38	295.38	296.01	0.013638	3.52	1.26	7.70	6.09	1.00
Tratto_1	3.4900*	Q050_ietoTRIANG	31.59	284.56	293.25	295.53	295.53	296.21	0.013511	3.65	1.35	8.66	6.41	1.00
Tratto_1	3.4900*	Q100_ietoTRIANG	34.99	284.56	293.25	295.65	295.65	296.35	0.013366	3.73	1.42	9.38	6.58	1.00
Tratto_1	3.4900*	Q200_ietoTRIANG	38.39	284.56	293.25	295.75	295.75	296.49	0.013365	3.82	1.49	10.05	6.74	1.00
Tratto_1	3.4900*	Q500_ietoTRIANG	42.90	284.56	293.25	295.86	295.86	296.66	0.013432	3.95	1.59	10.86	6.82	1.00

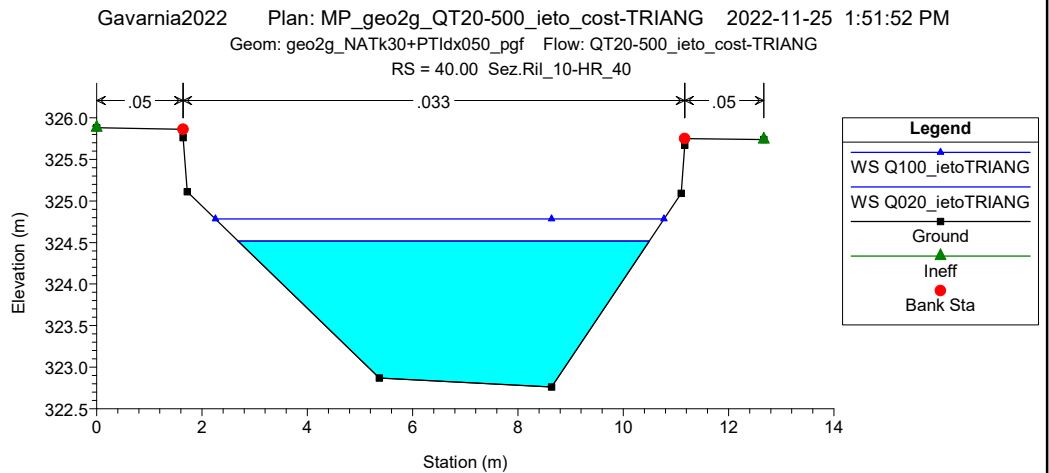
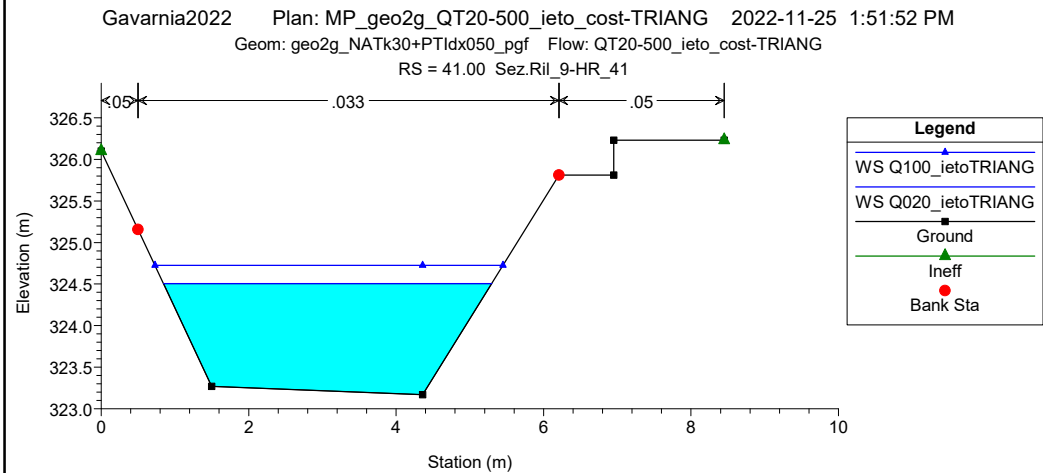
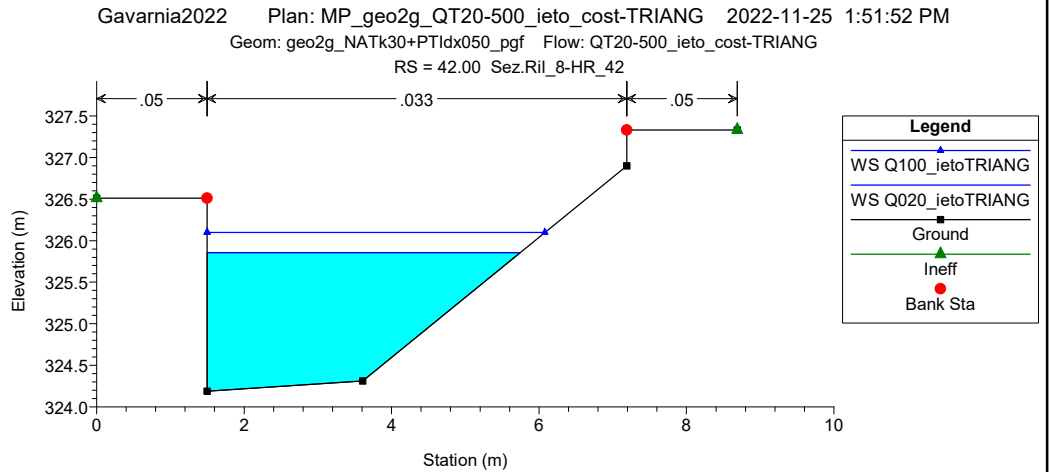
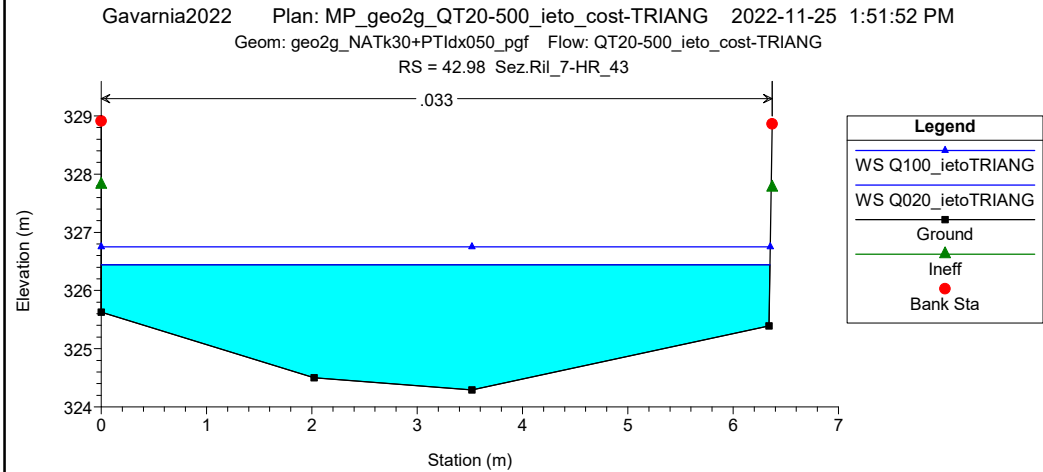
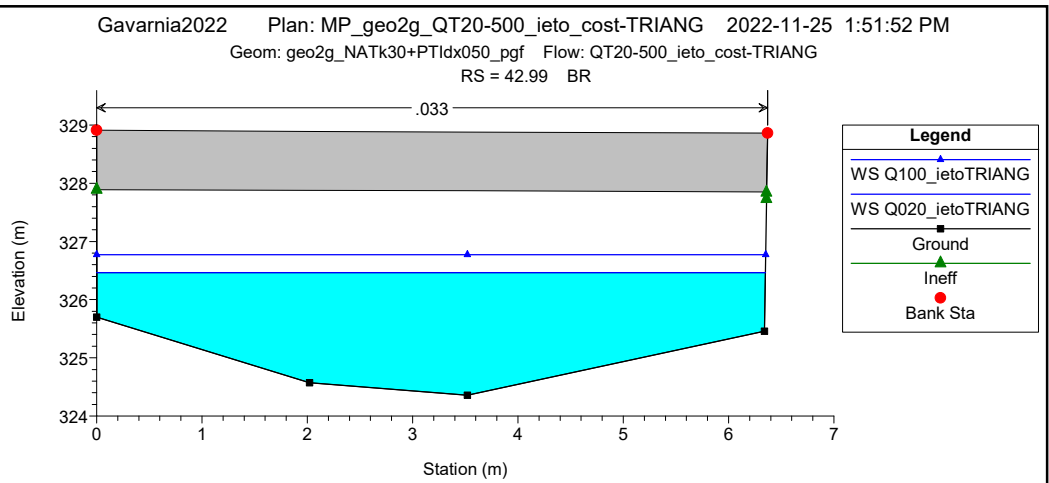
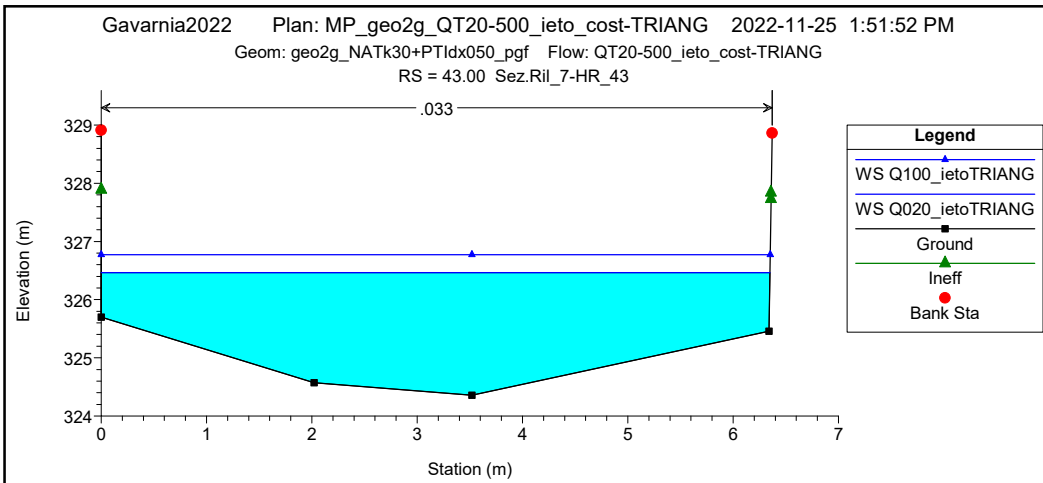
HEC-RAS Plan: MP_geo2g_QT20-500_ieto_cost-TRIANG River: T.Gavarnia Reach: Tratto_1 (Continued)

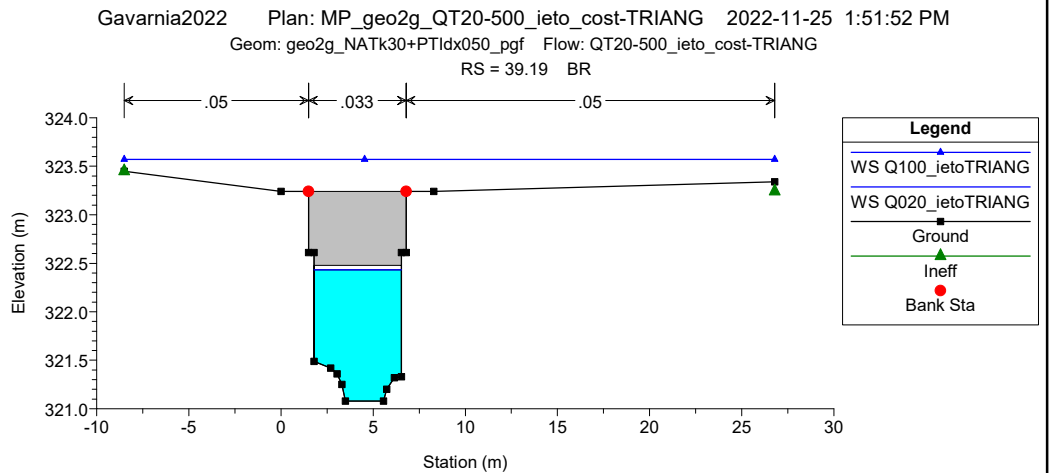
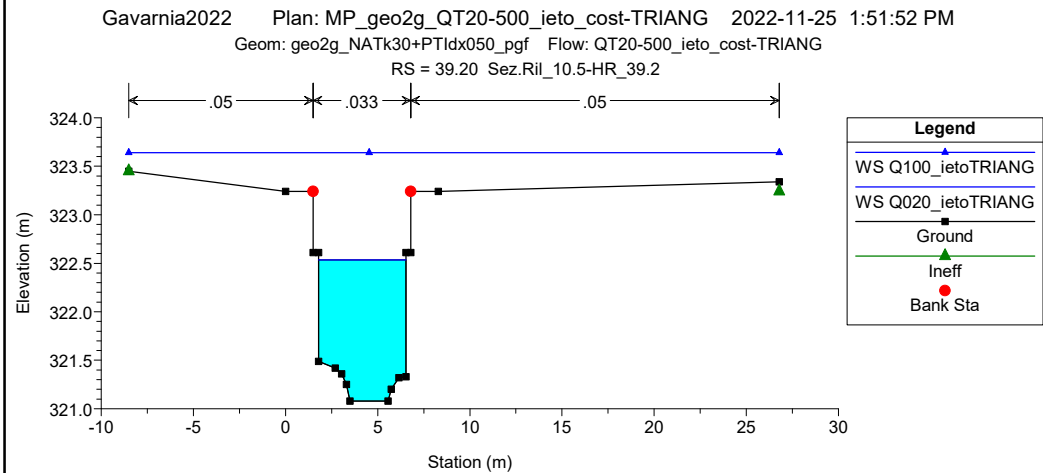
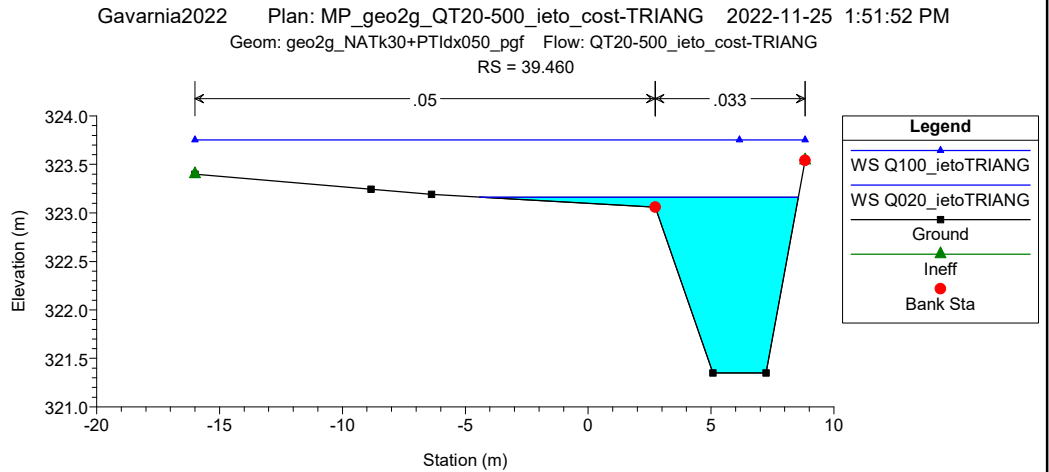
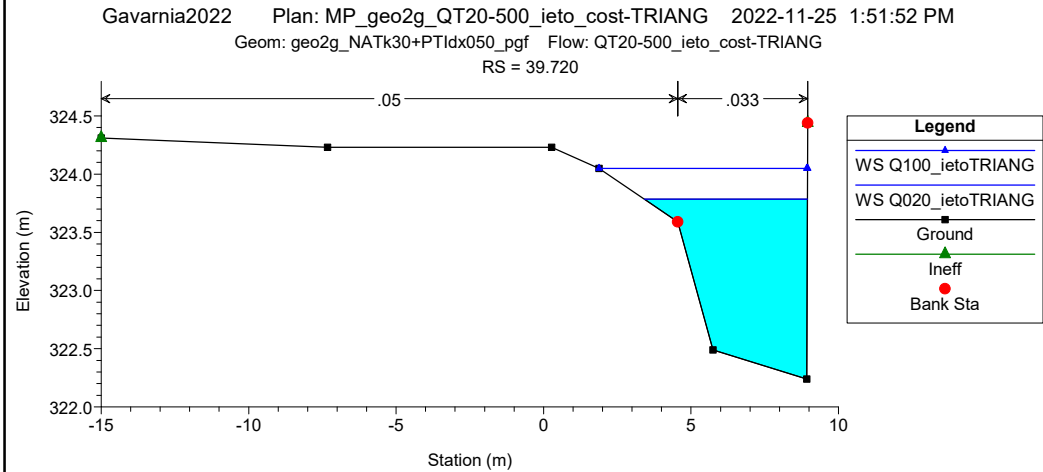
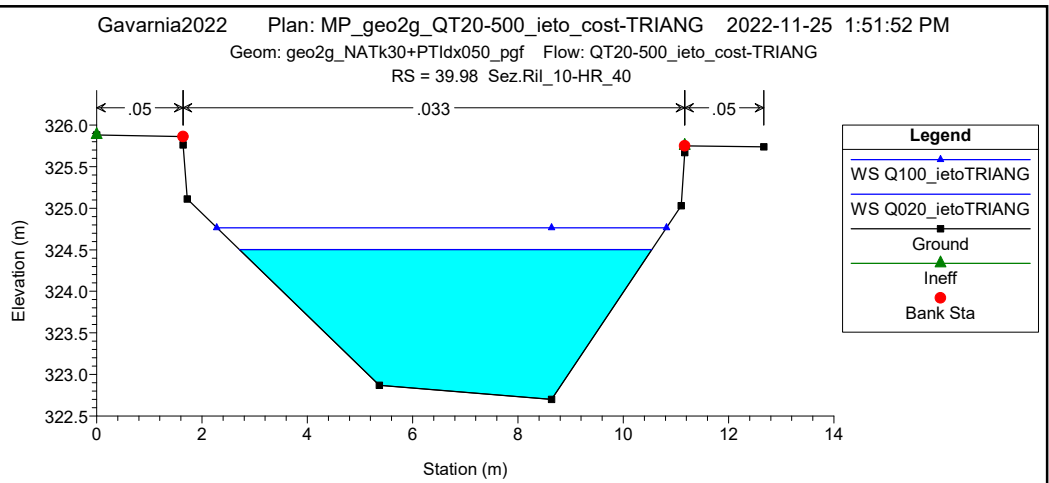
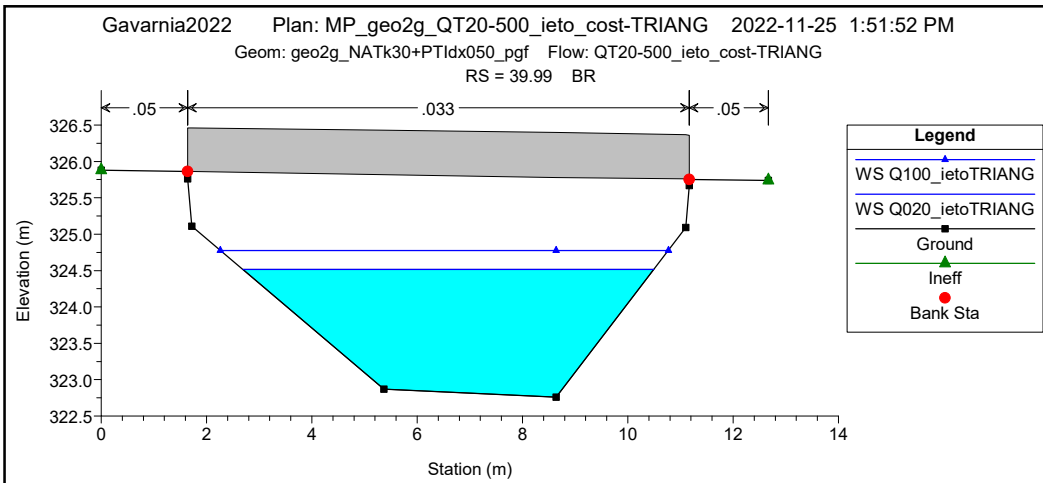
Reach	River Sta	Profile	Q Total (m3/s)	Cum Ch Len (m)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Hydr Depth (m)	Flow Area (m2)	Top Width (m)	Froude # Chl
Tratto_1	2.00	Q100_ietoTRIANG	36.06	51.75	290.33	293.59	292.15	293.72	0.001349	1.63	2.44	22.09	9.05	0.33
Tratto_1	2.00	Q200_ietoTRIANG	39.56	51.75	290.33	293.80	292.24	293.94	0.001250	1.64	2.25	24.39	13.92	0.32
Tratto_1	2.00	Q500_ietoTRIANG	44.21	51.75	290.33	294.09	292.37	294.23	0.001128	1.65	2.54	27.53	13.92	0.31
Tratto_1	2.00	Q2019Vserio	27.32	51.75	290.33	293.02	291.88	293.15	0.001585	1.60	1.98	17.06	8.63	0.36
Tratto_1	2.00	Q2019T-Boldone	22.53	51.75	290.33	292.68	291.72	292.81	0.001815	1.59	1.69	14.19	8.38	0.39
Tratto_1	1.99		Bridge											
Tratto_1	1.98	Q020_ietoTRIANG	27.92	34.75	289.33	290.35	290.97	292.41	0.068764	6.37	0.86	4.39	5.09	2.19
Tratto_1	1.98	Q050_ietoTRIANG	32.56	34.75	289.33	290.44	291.12	292.70	0.068418	6.65	0.93	4.89	5.24	2.20
Tratto_1	1.98	Q100_ietoTRIANG	36.06	34.75	289.33	290.51	291.23	292.90	0.068170	6.85	0.98	5.27	5.35	2.20
Tratto_1	1.98	Q200_ietoTRIANG	39.56	34.75	289.33	290.58	291.34	293.10	0.067967	7.03	1.03	5.63	5.45	2.21
Tratto_1	1.98	Q500_ietoTRIANG	44.21	34.75	289.33	290.67	291.47	293.35	0.067990	7.25	1.09	6.09	5.58	2.22
Tratto_1	1.98	Q2019Vserio	27.32	34.75	289.33	290.33	290.95	292.38	0.069002	6.33	0.85	4.31	5.07	2.19
Tratto_1	1.98	Q2019T-Boldone	22.53	34.75	289.33	290.22	290.77	292.06	0.070054	6.00	0.77	3.75	4.90	2.19
Tratto_1	1.00	Q020_ietoTRIANG	28.06		287.30	288.23	288.77	290.04	0.063626	5.97	0.78	4.70	6.00	2.15
Tratto_1	1.00	Q050_ietoTRIANG	32.73		287.30	288.31	288.91	290.32	0.064406	6.29	0.85	5.21	6.15	2.18
Tratto_1	1.00	Q100_ietoTRIANG	36.25		287.30	288.37	289.02	290.52	0.064898	6.50	0.89	5.57	6.26	2.20
Tratto_1	1.00	Q200_ietoTRIANG	39.77		287.30	288.42	289.11	290.72	0.065321	6.71	0.93	5.93	6.36	2.22
Tratto_1	1.00	Q500_ietoTRIANG	44.44		287.30	288.50	289.23	290.96	0.065781	6.95	0.99	6.39	6.49	2.24
Tratto_1	1.00	Q2019Vserio	27.48		287.30	288.22	288.75	290.00	0.063430	5.92	0.78	4.64	5.98	2.15
Tratto_1	1.00	Q2019T-Boldone	22.66		287.30	288.12	288.60	289.68	0.062212	5.53	0.70	4.10	5.82	2.10

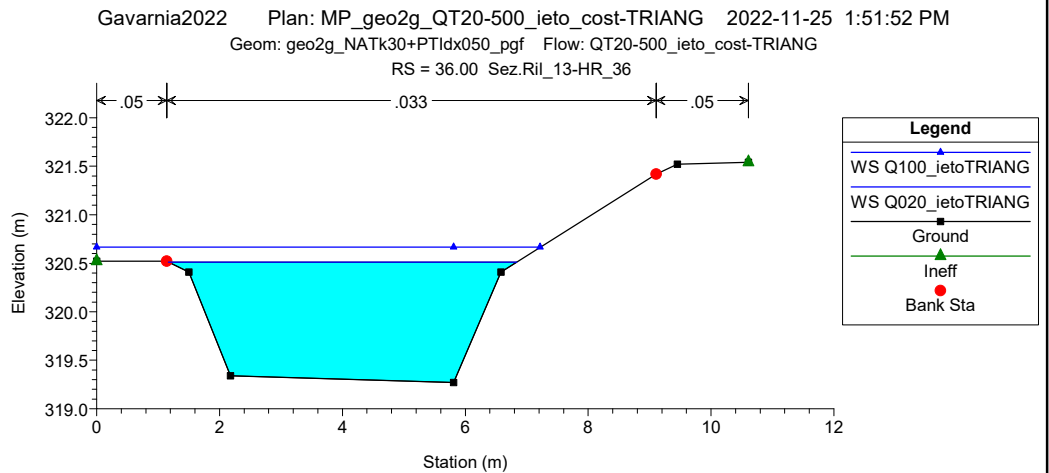
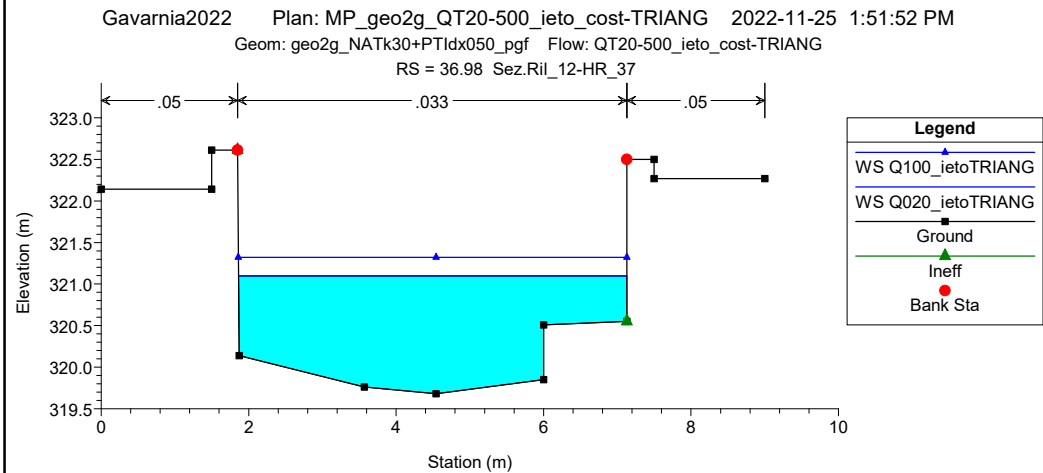
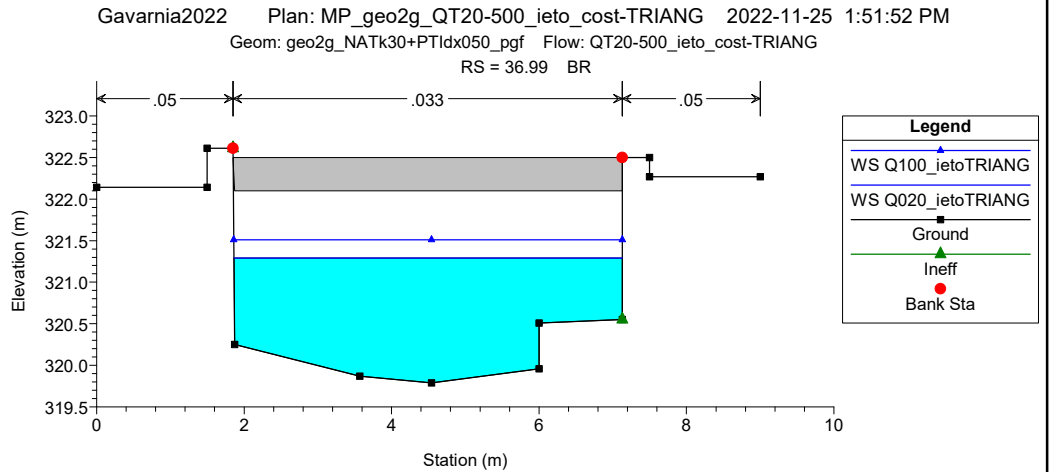
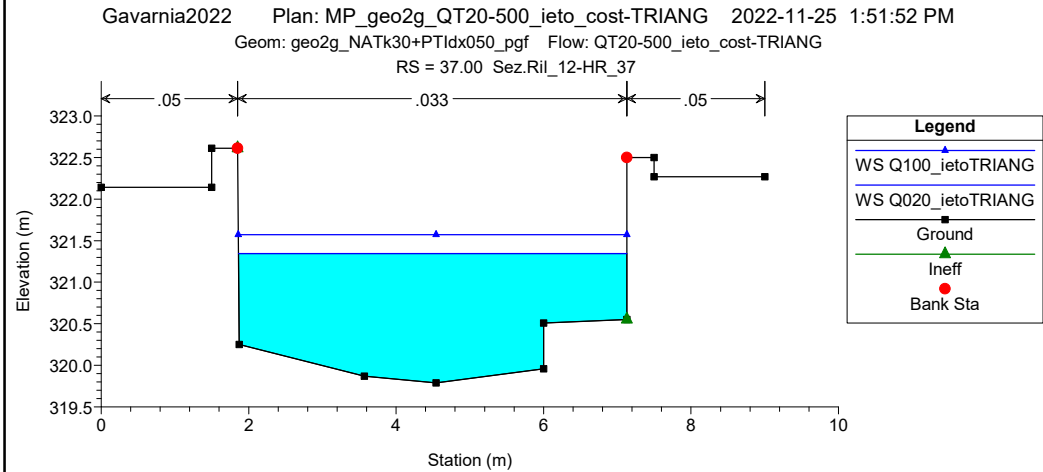
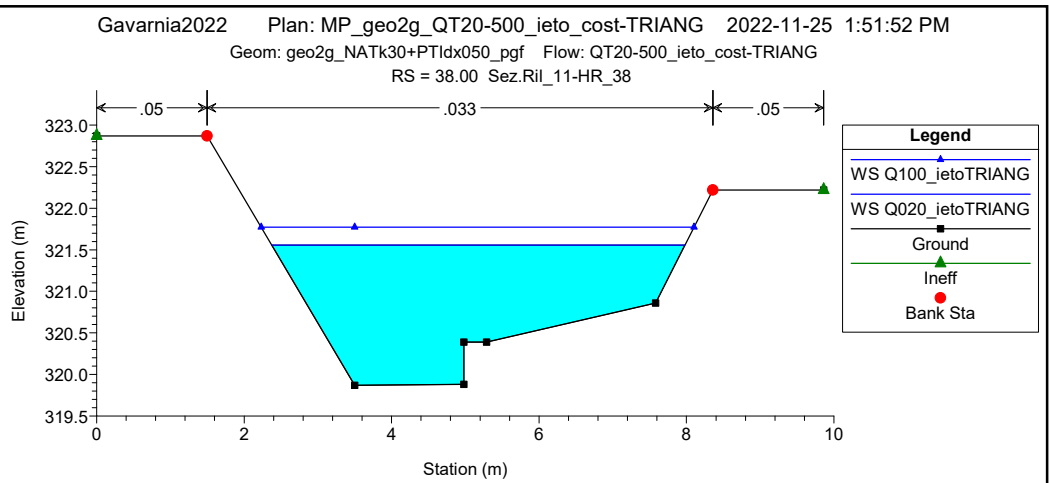
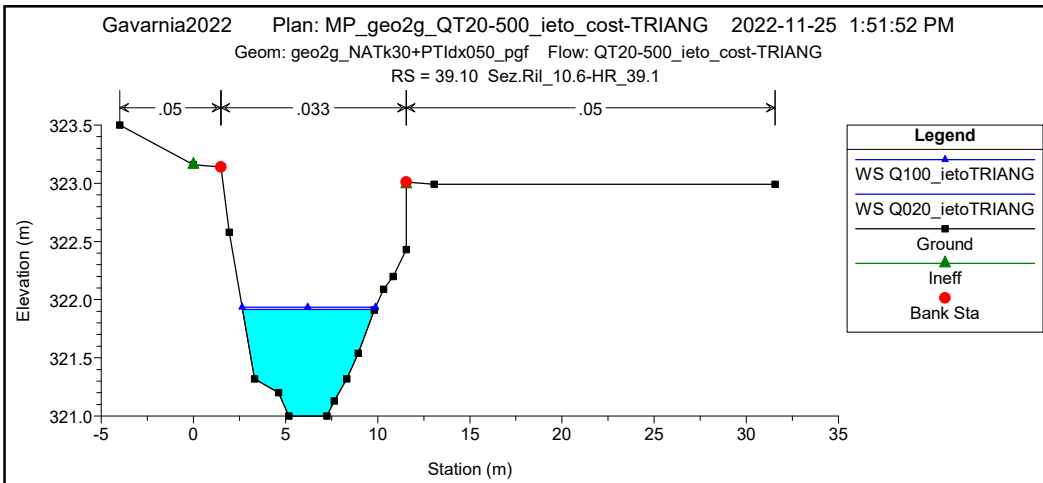
T.Gavarnia Tratto_1

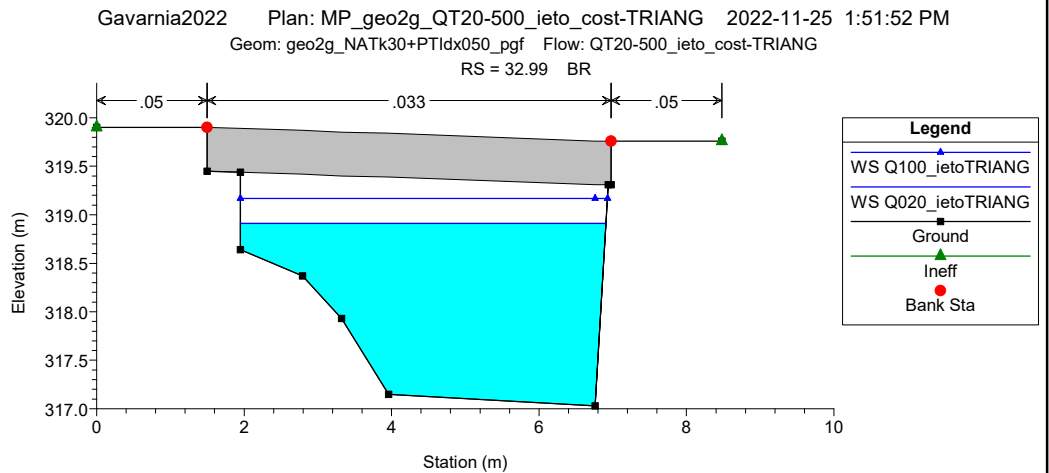
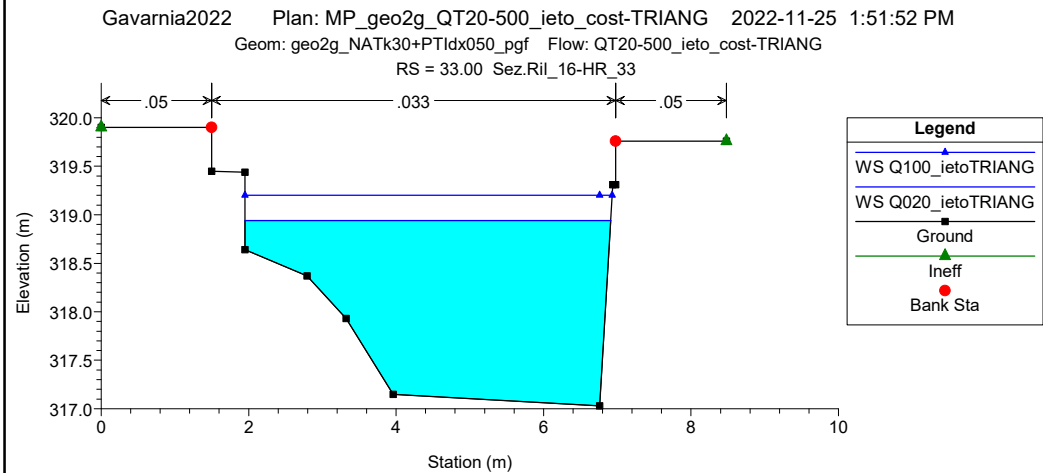
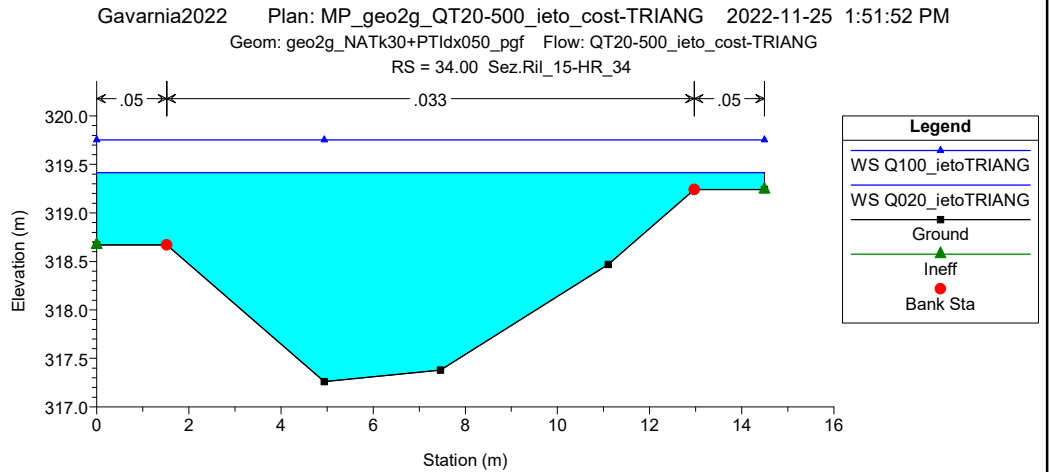
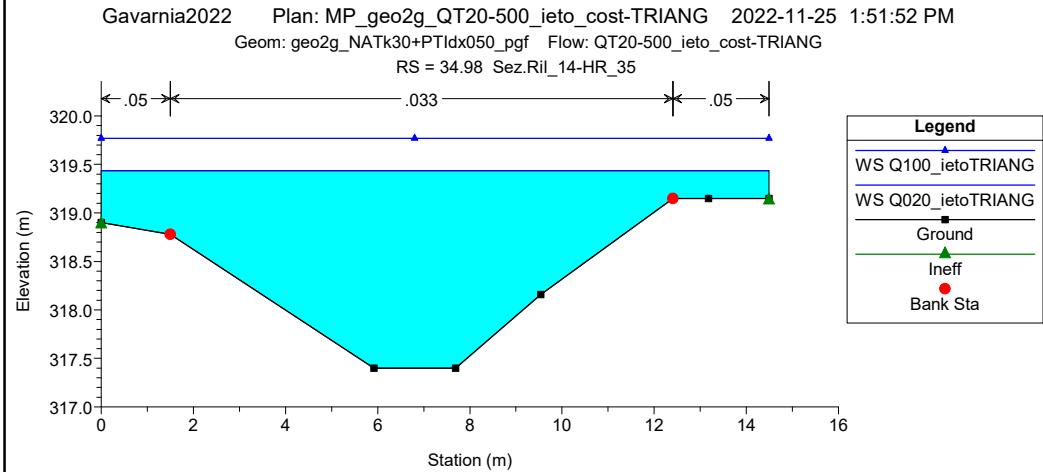
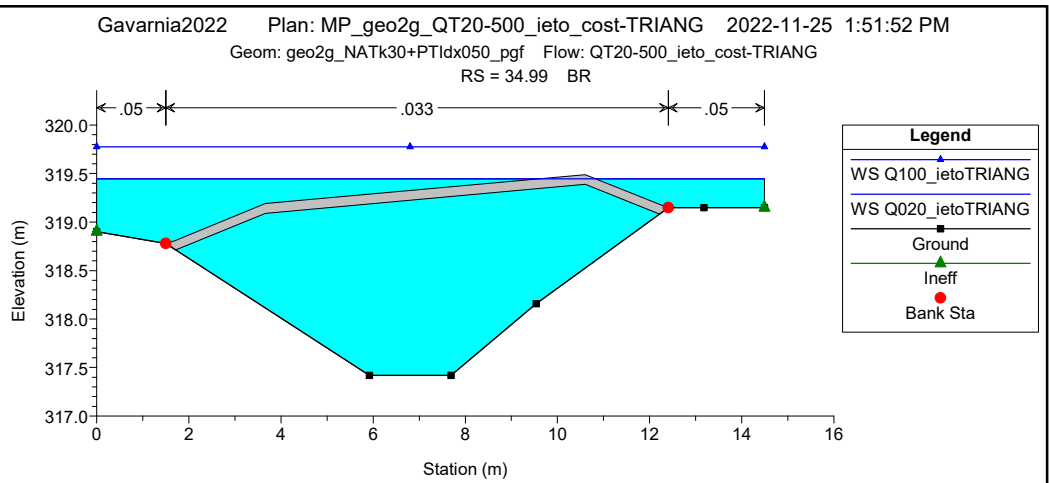
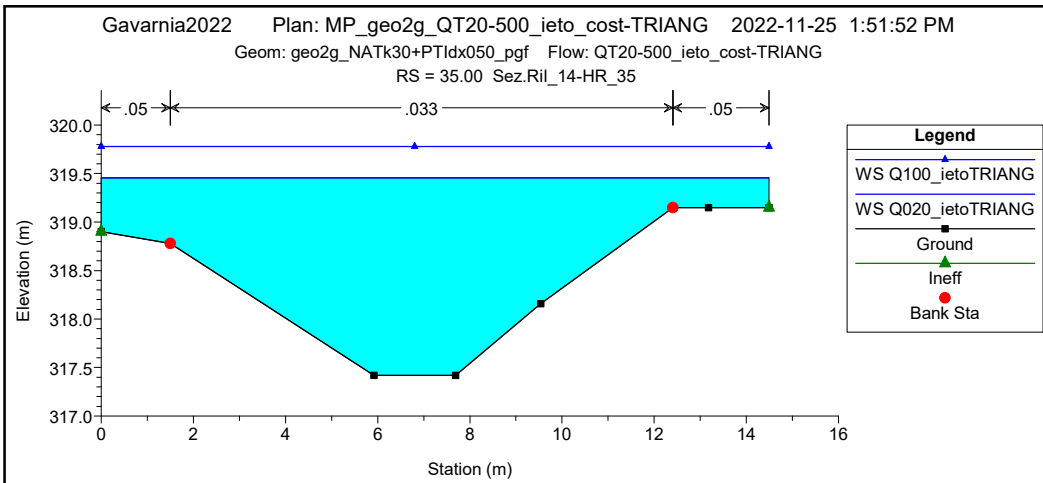


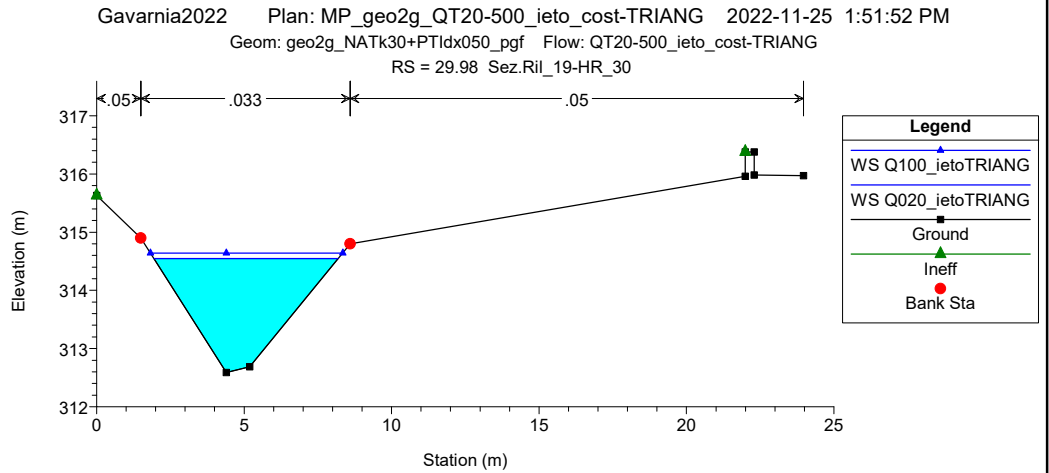
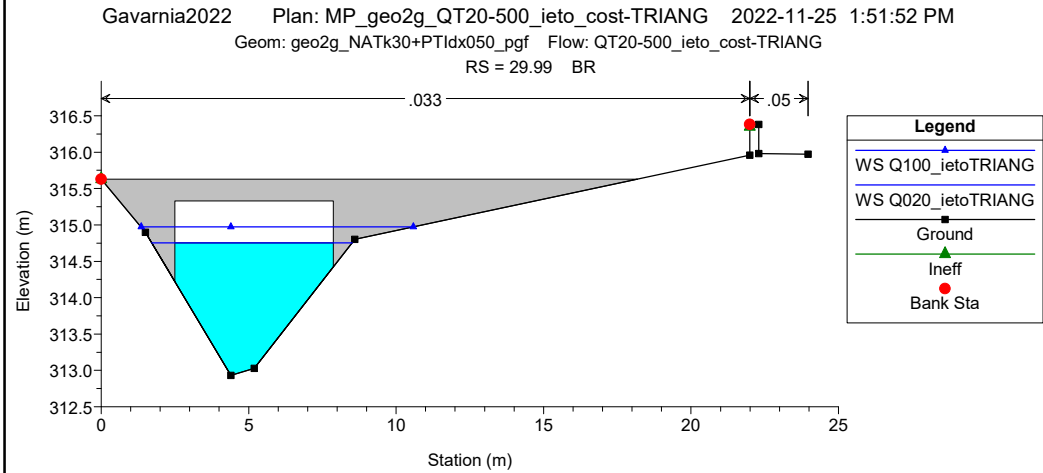
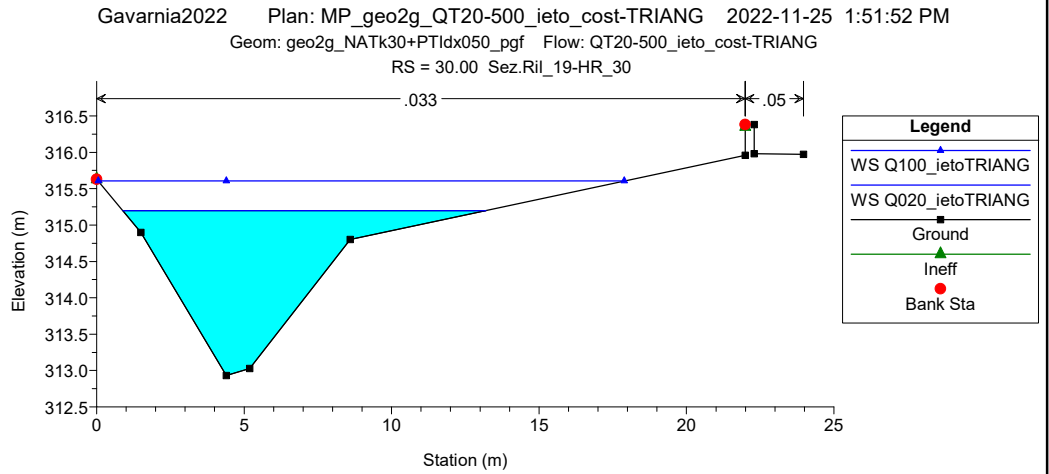
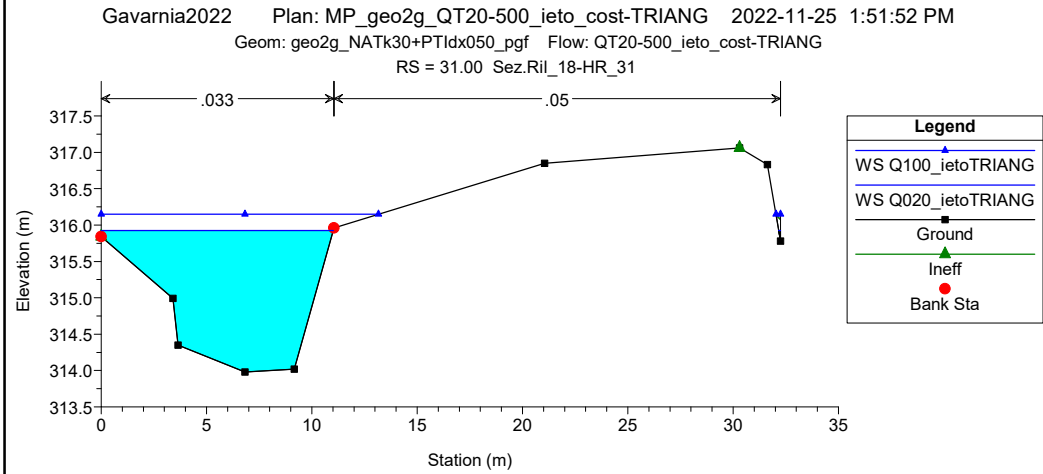
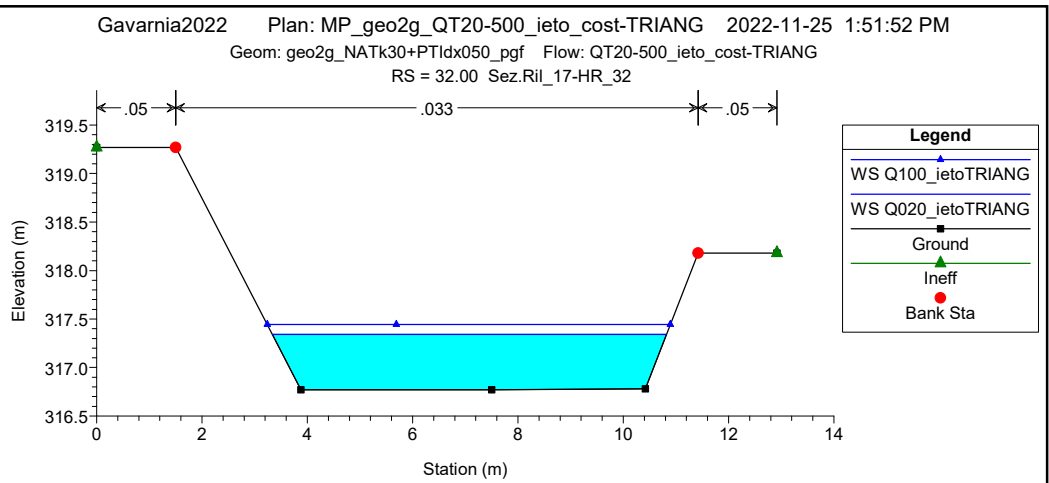
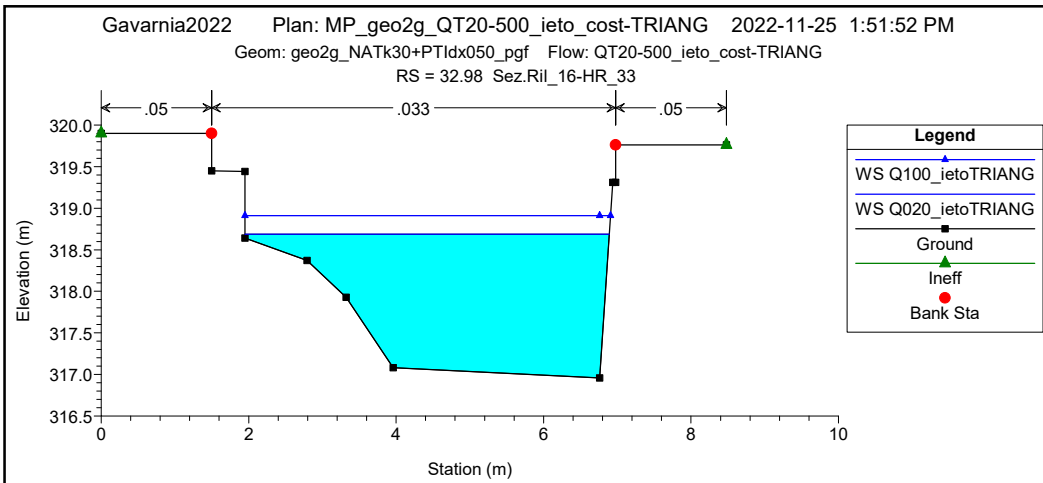


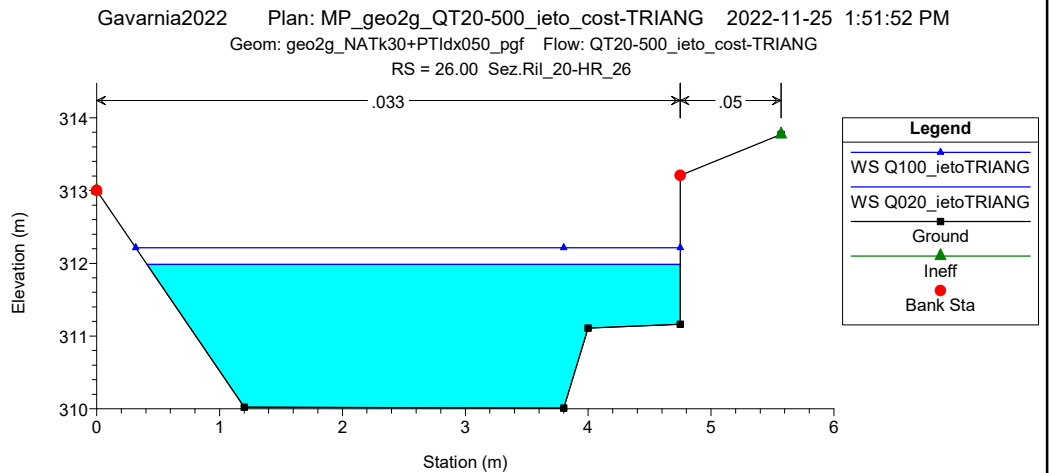
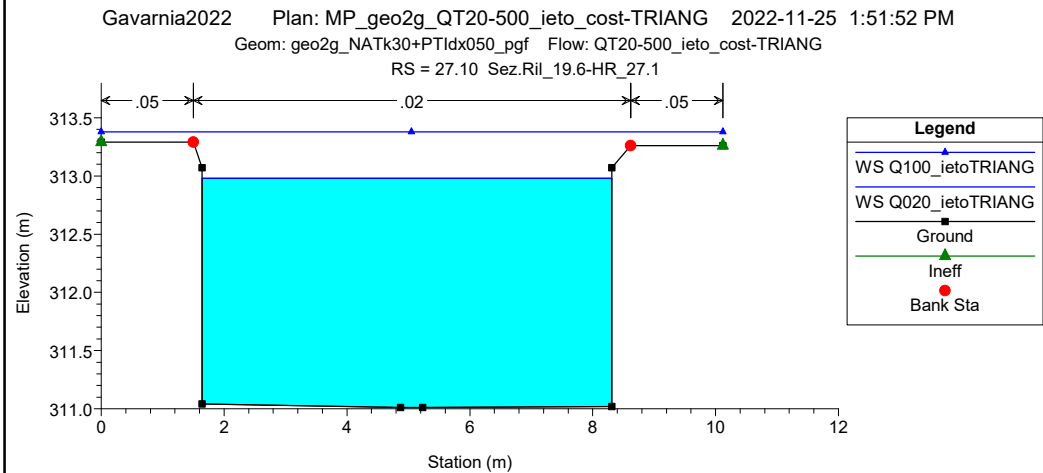
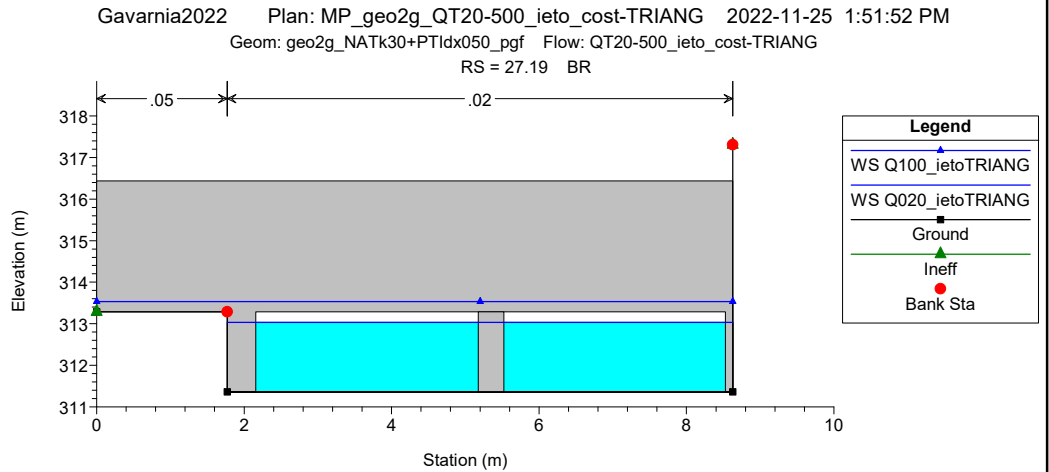
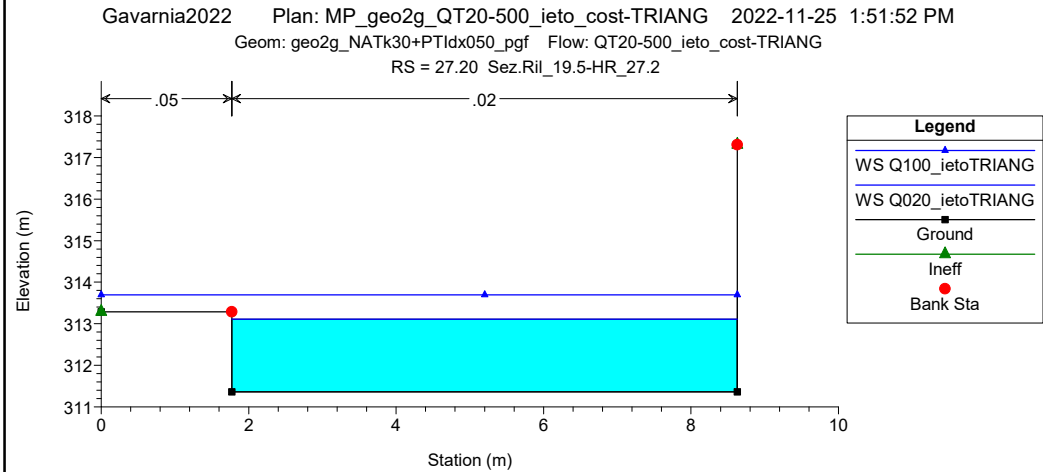
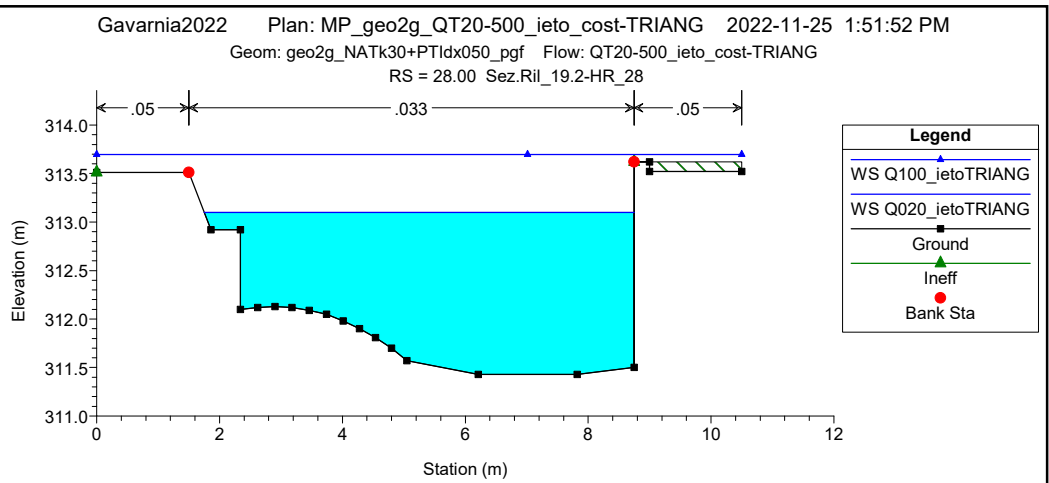
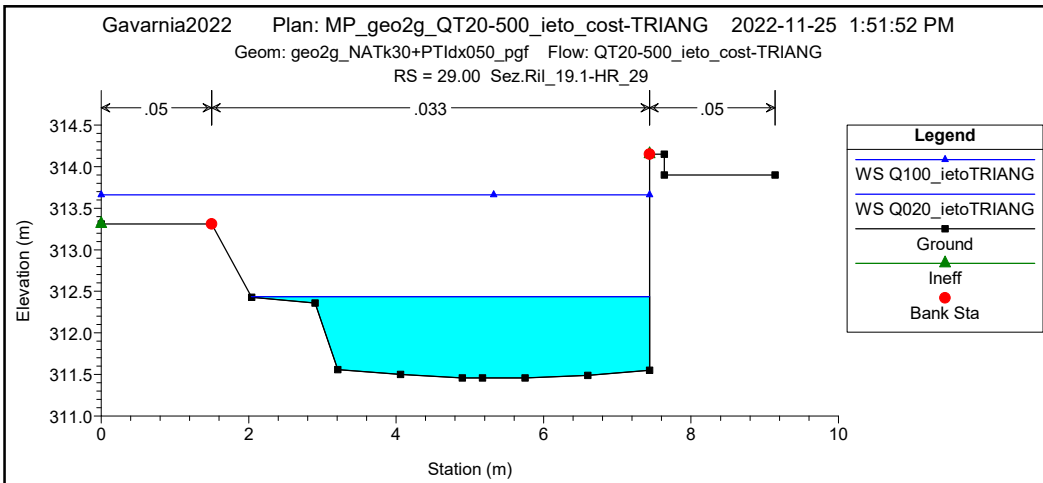


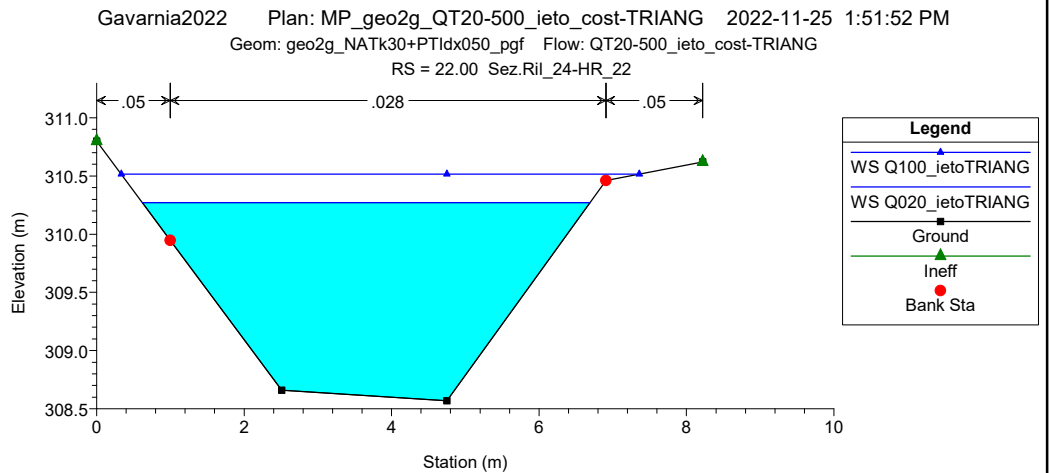
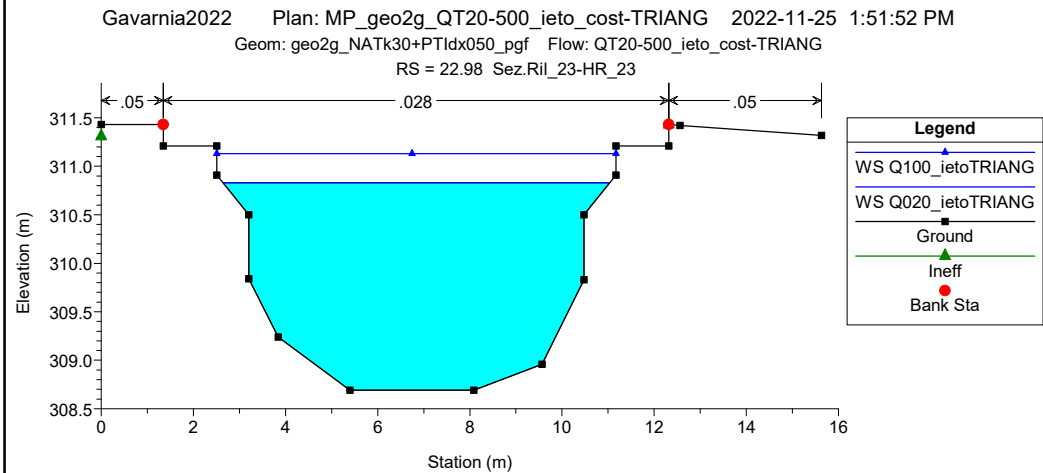
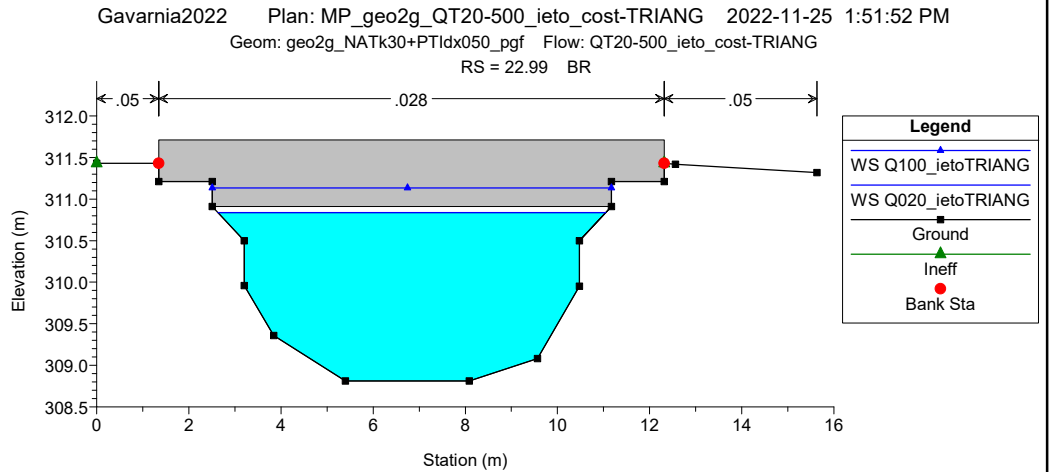
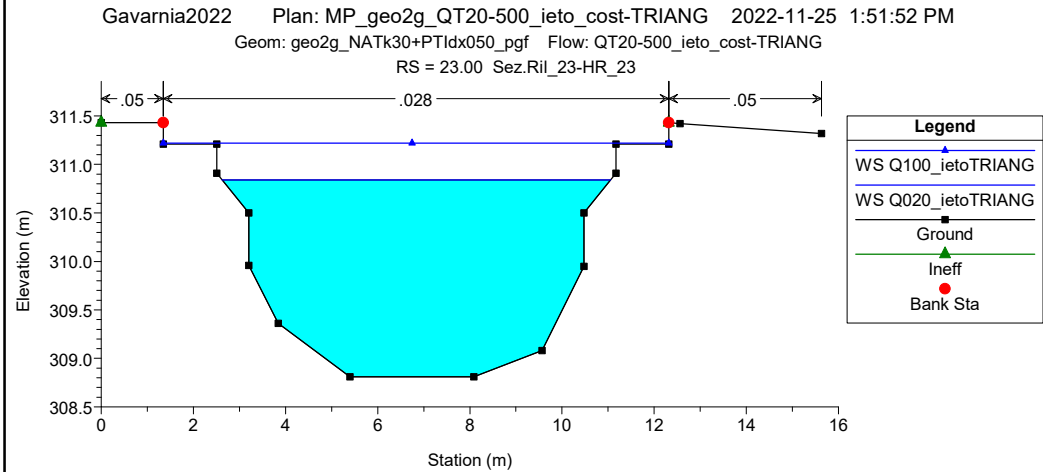
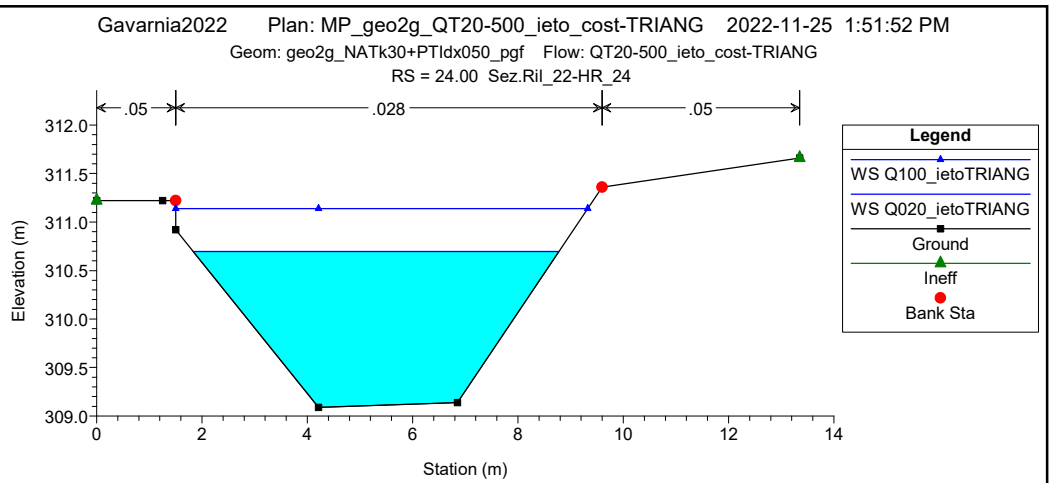
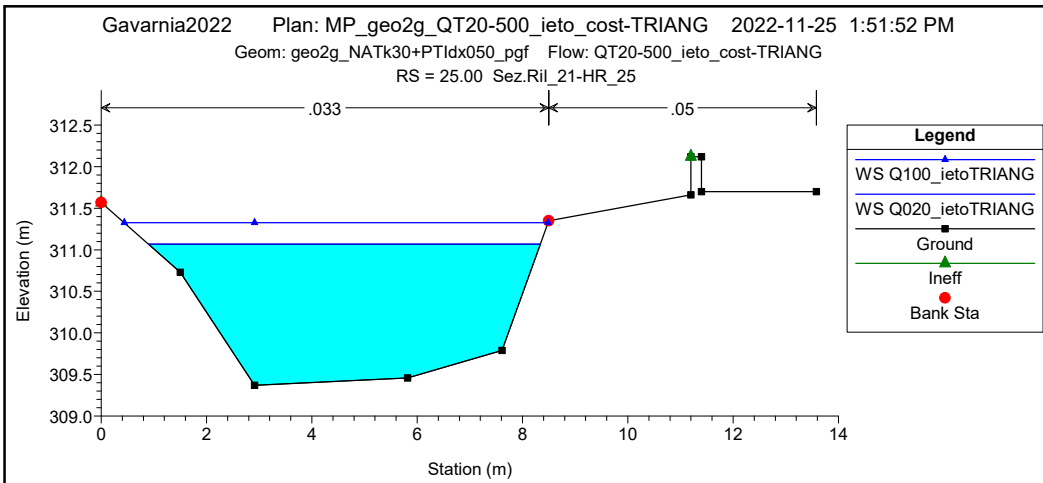


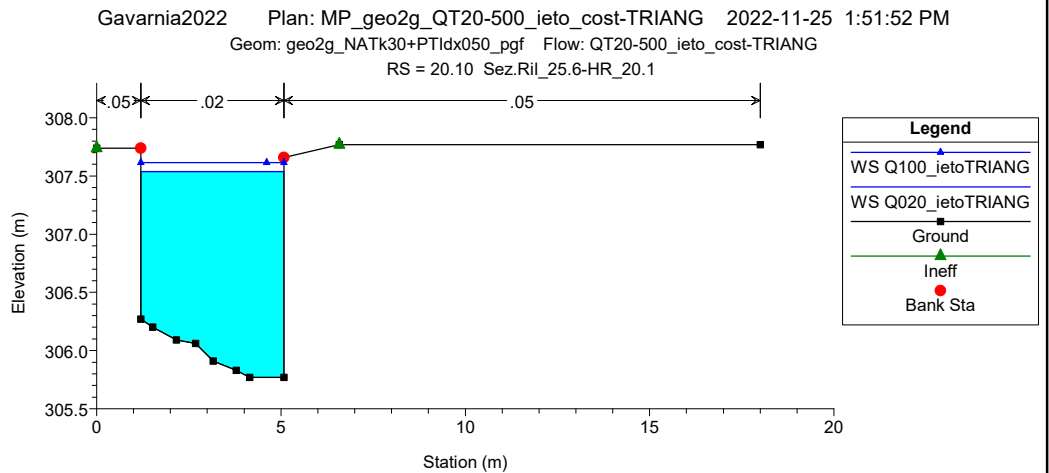
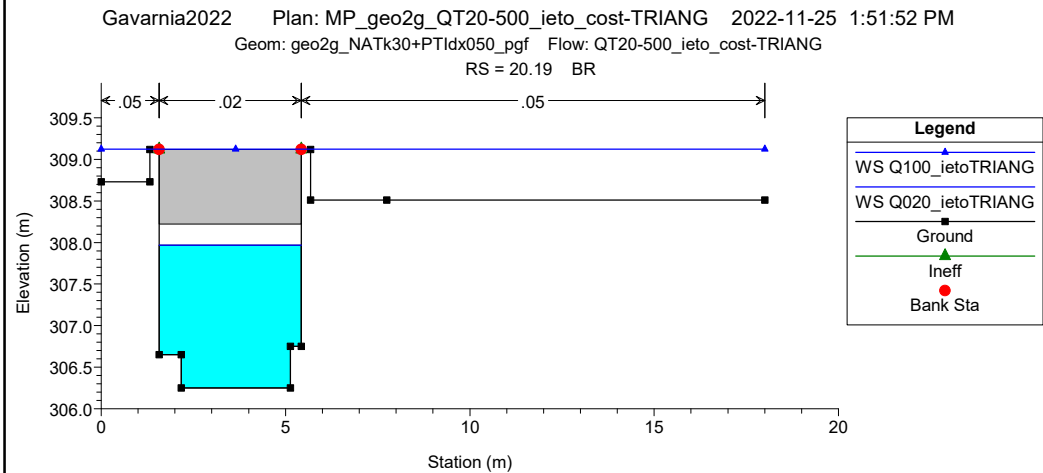
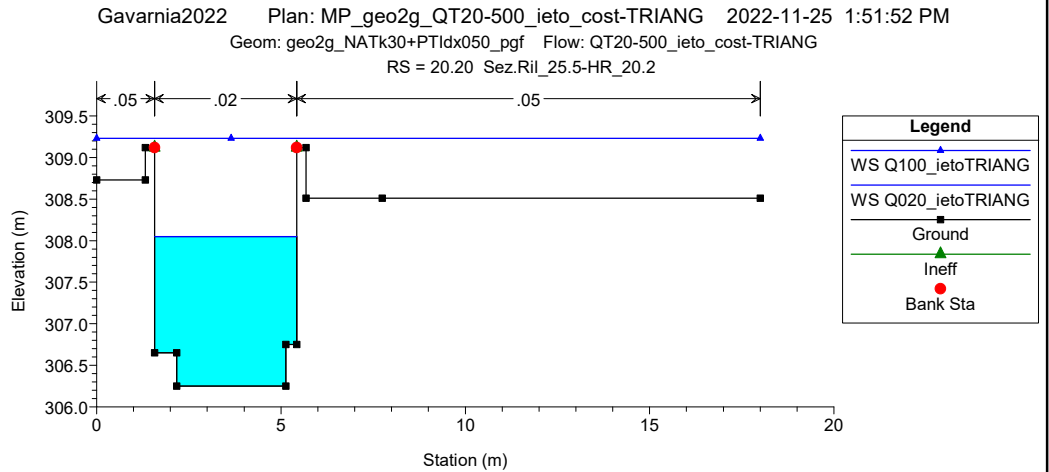
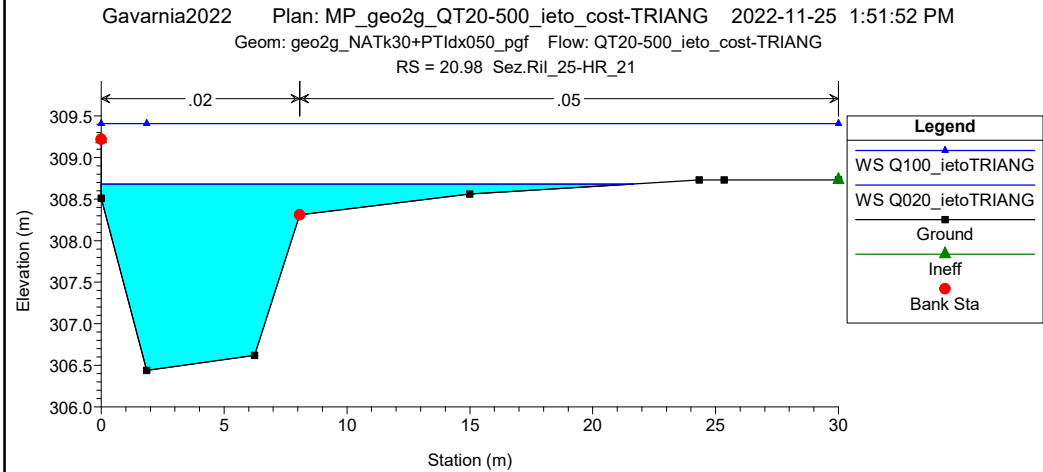
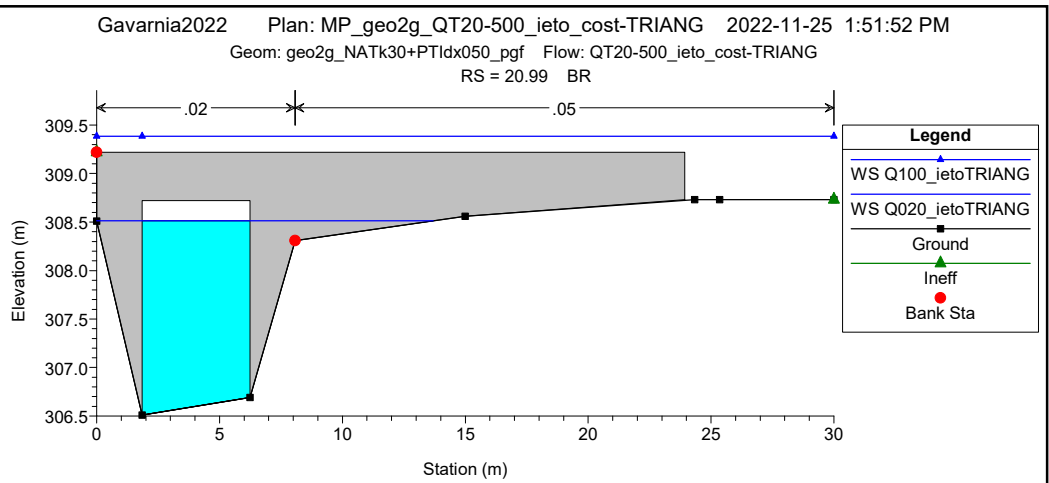
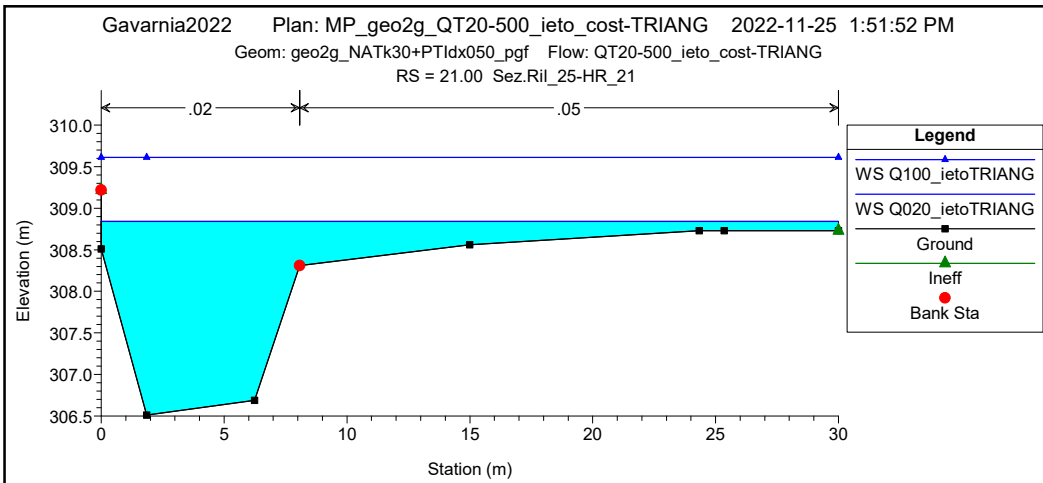


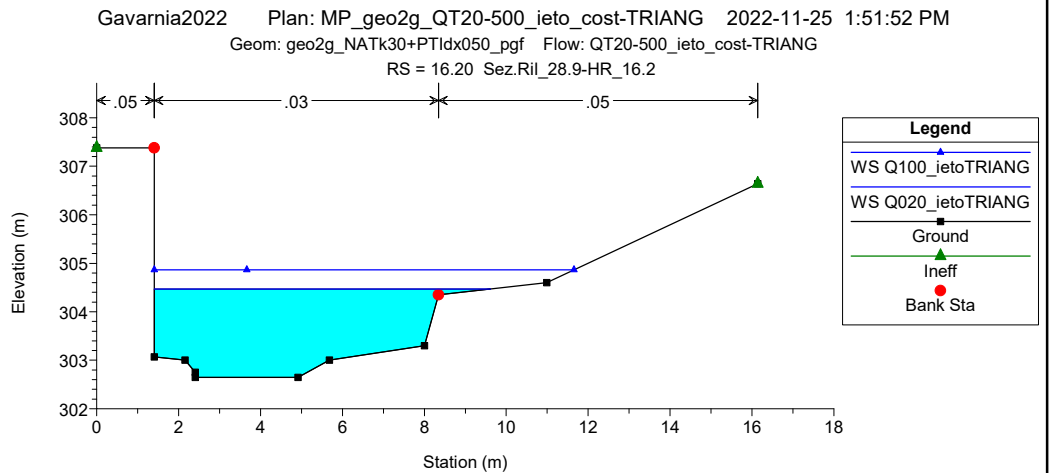
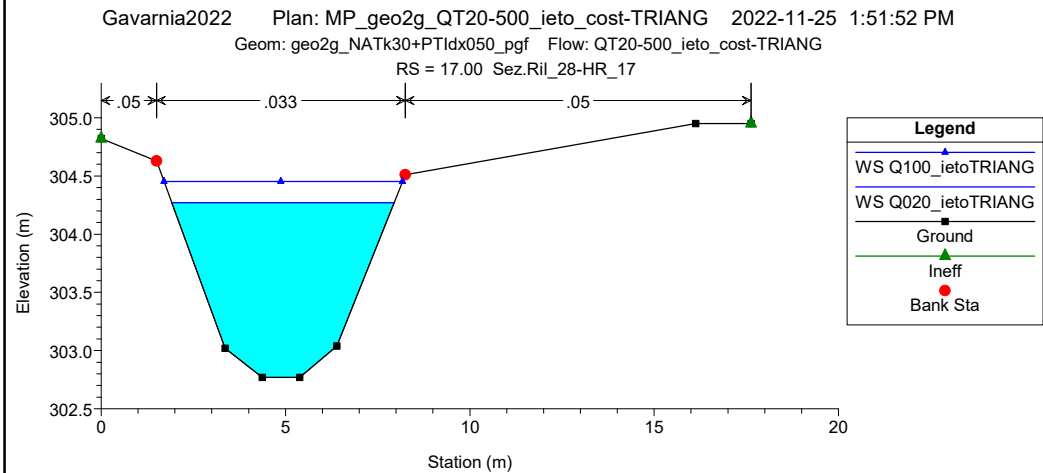
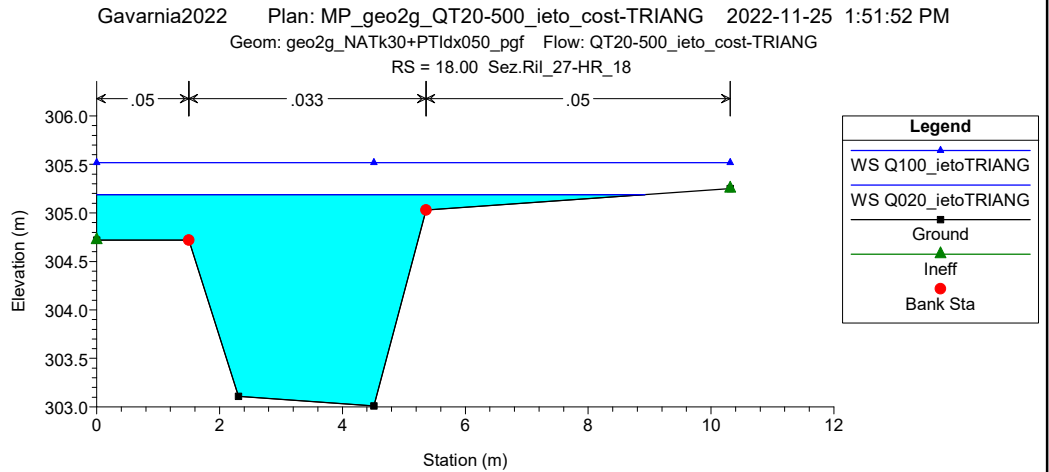
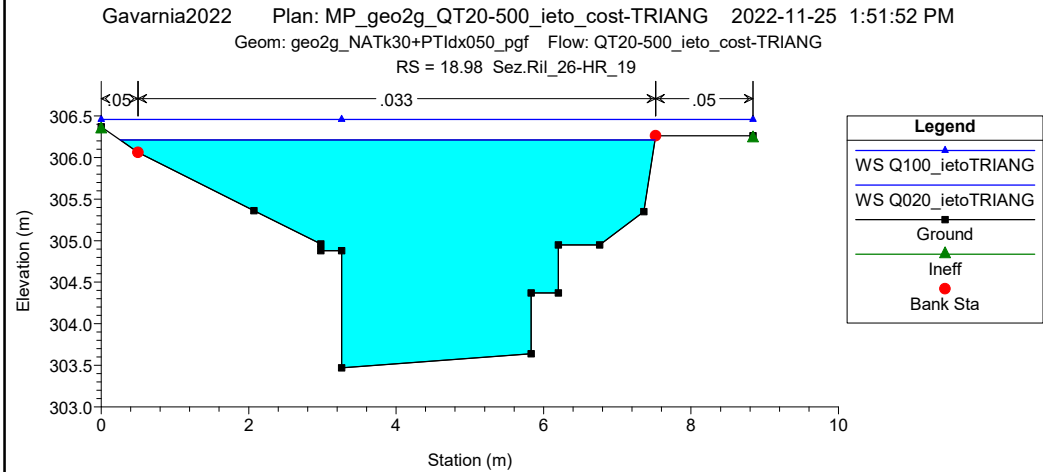
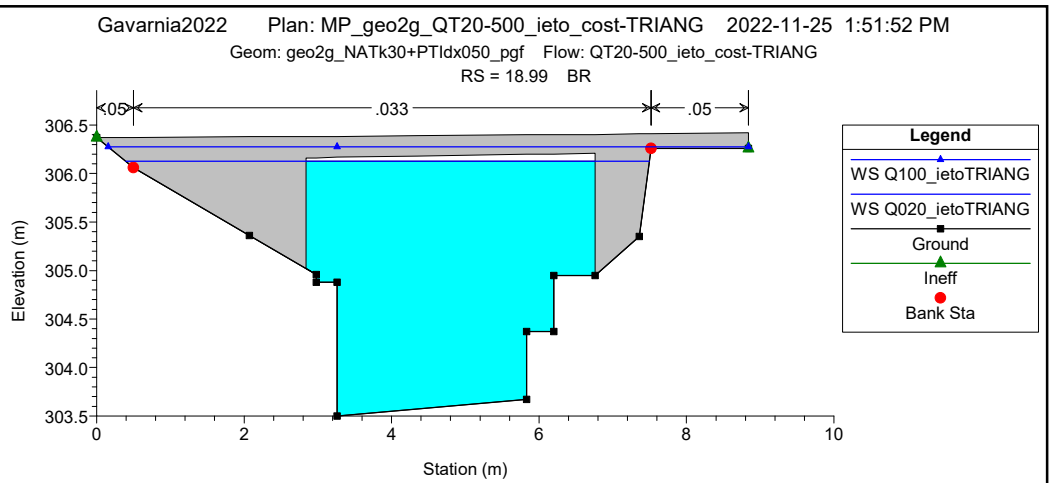
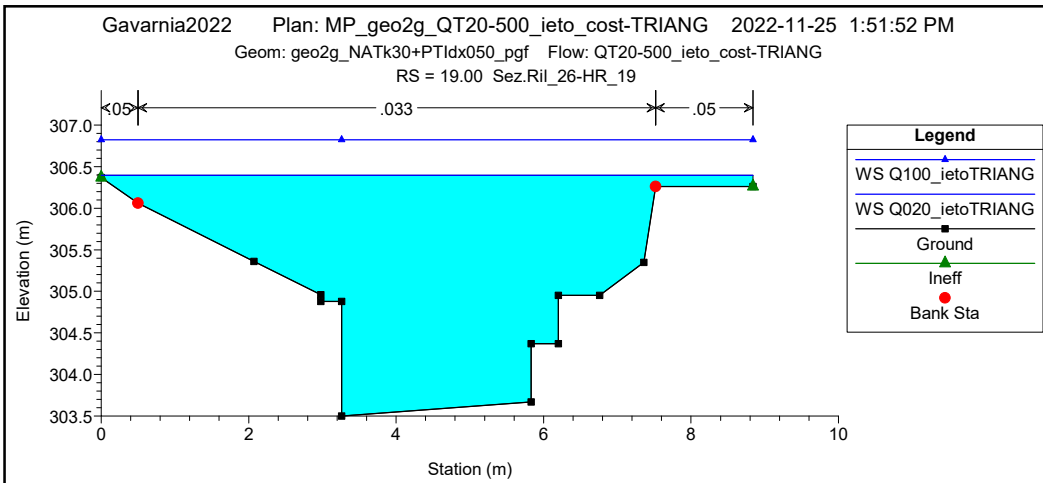


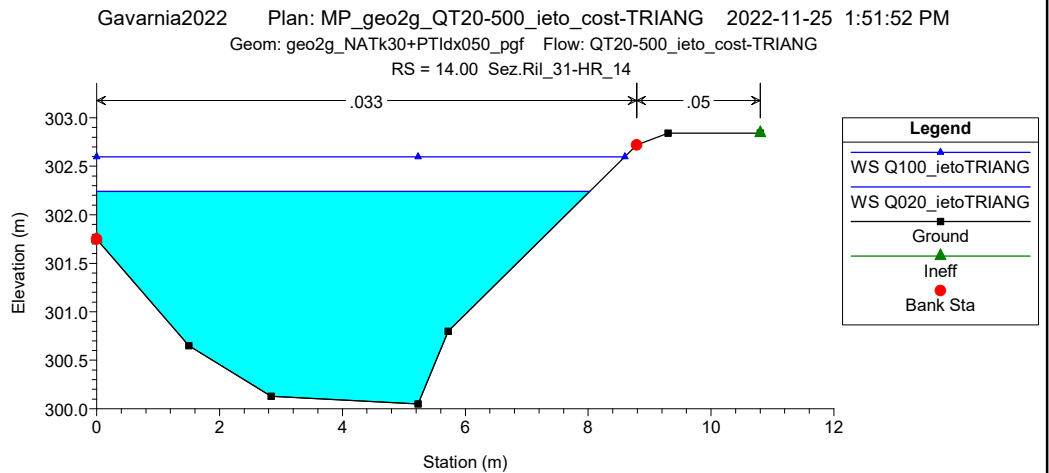
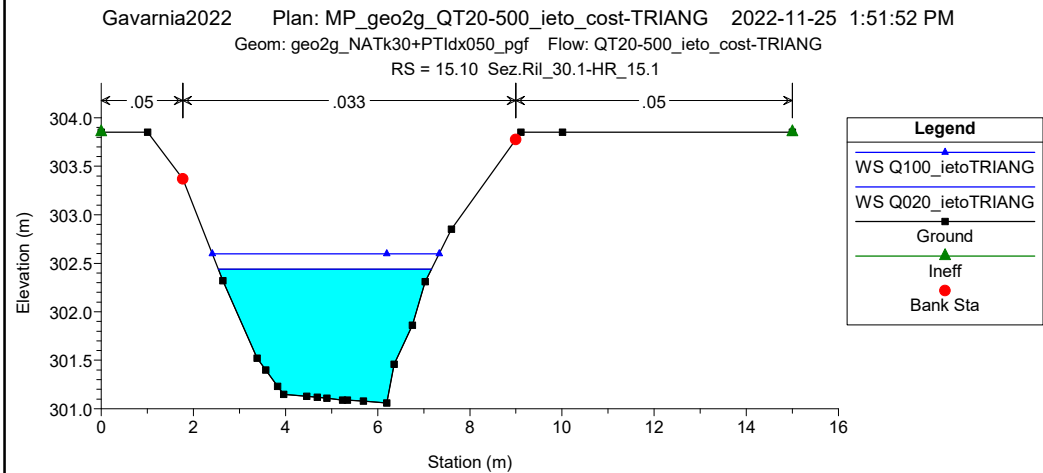
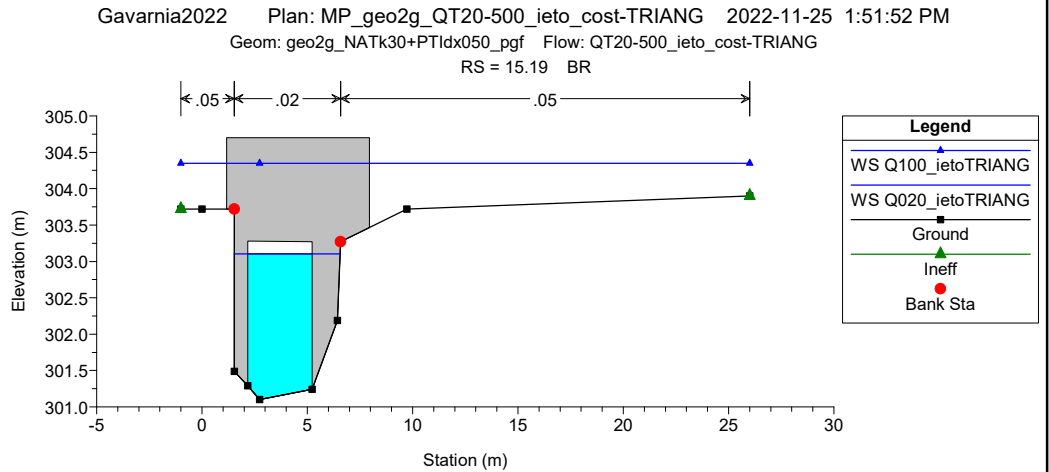
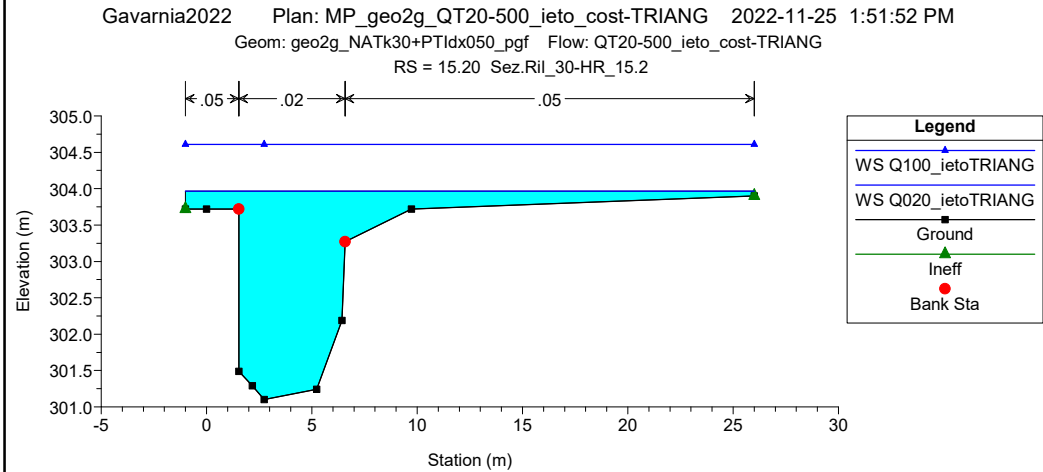
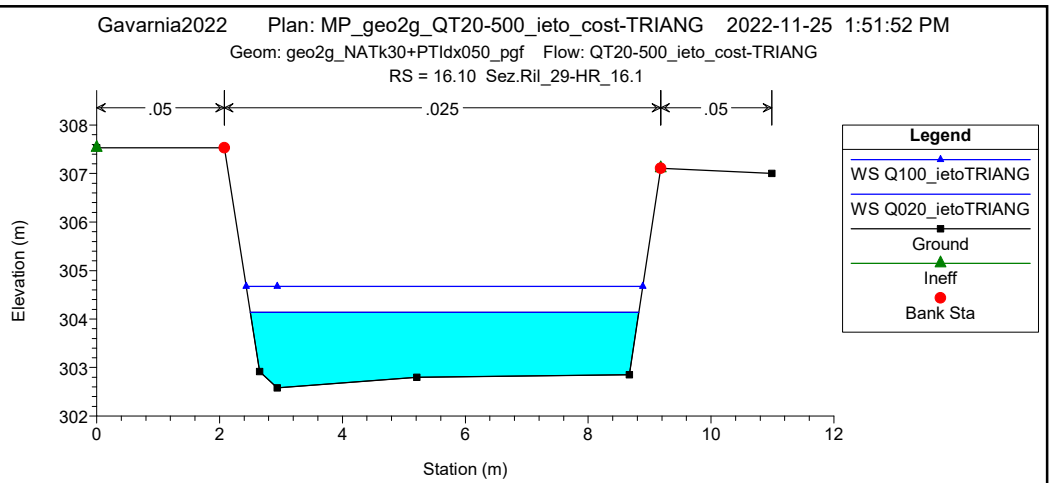
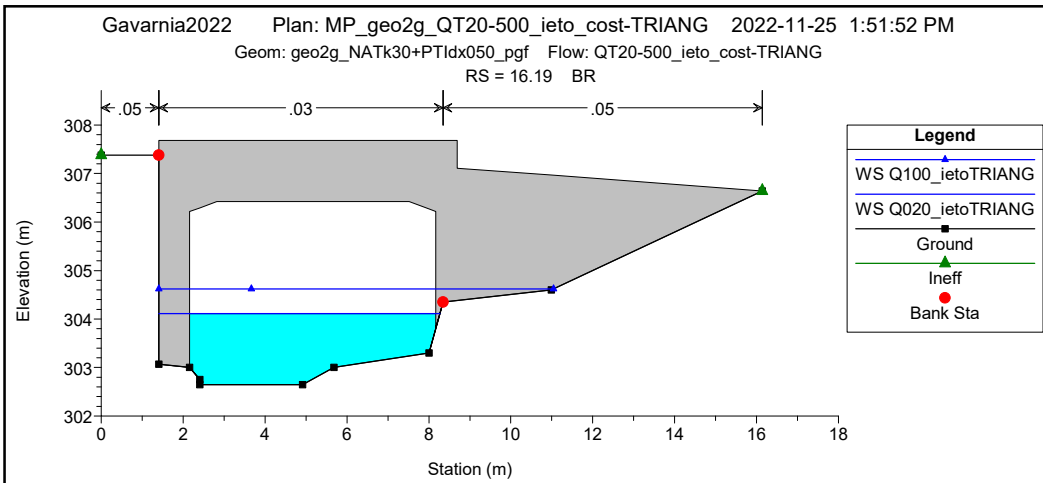


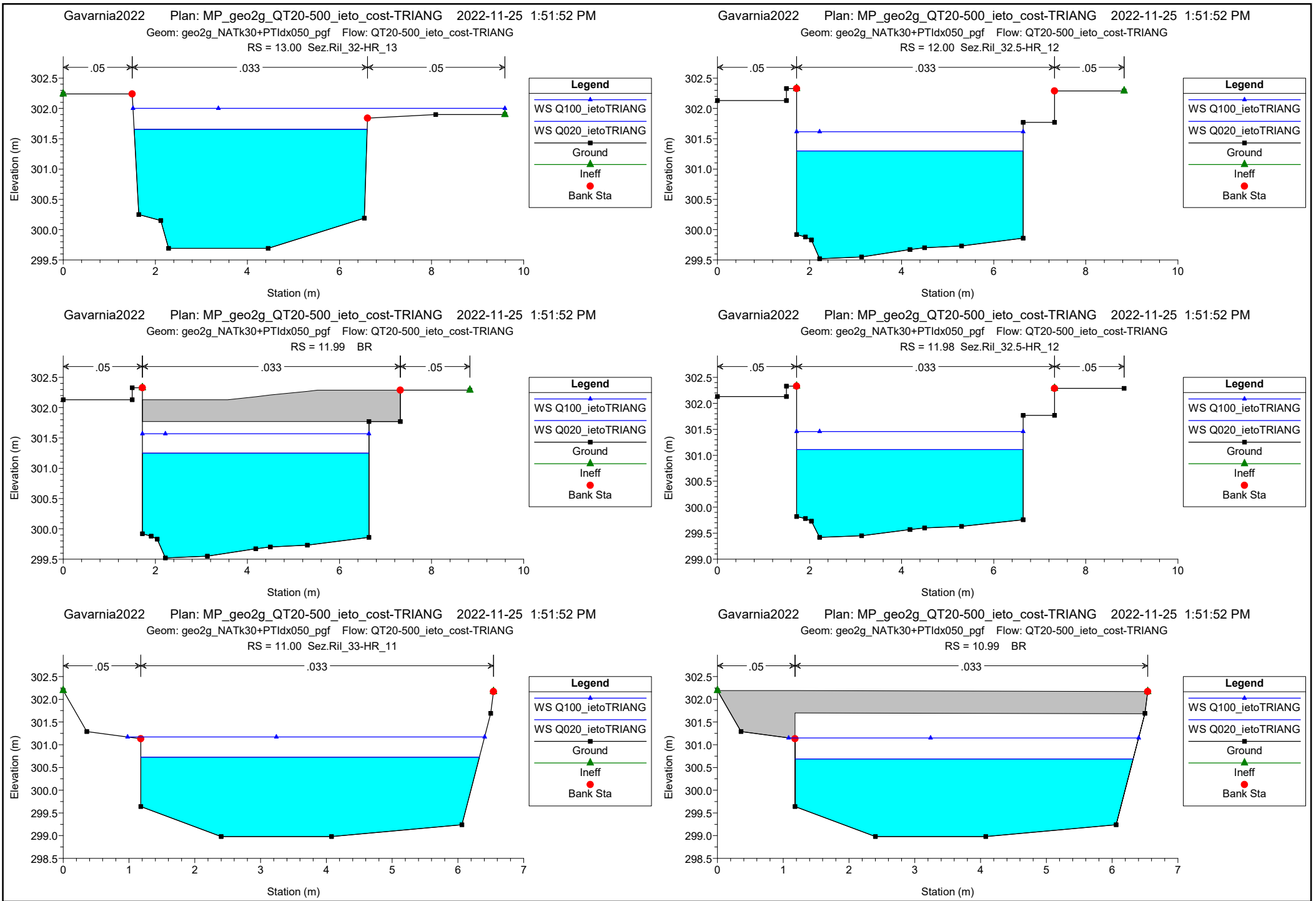


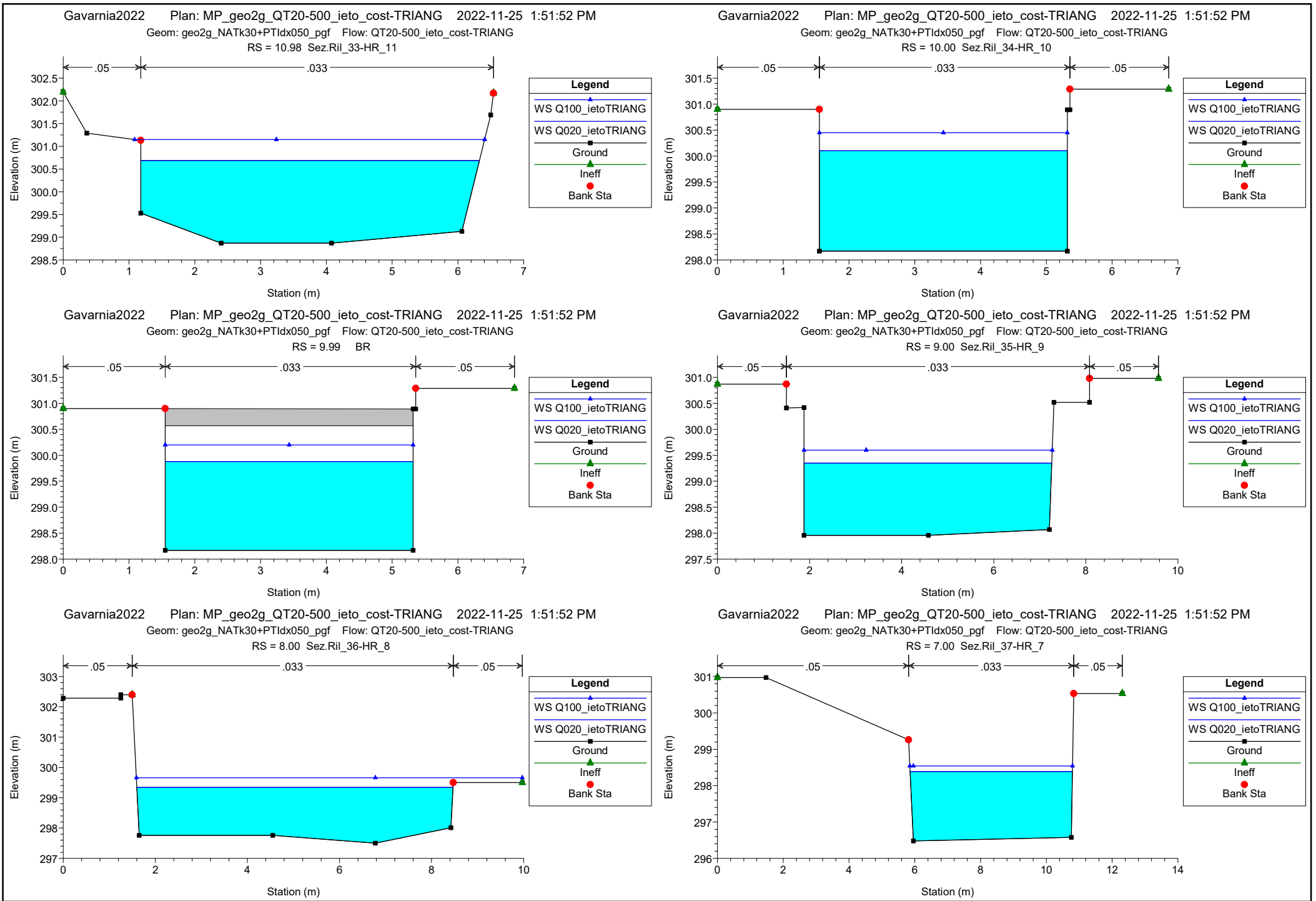


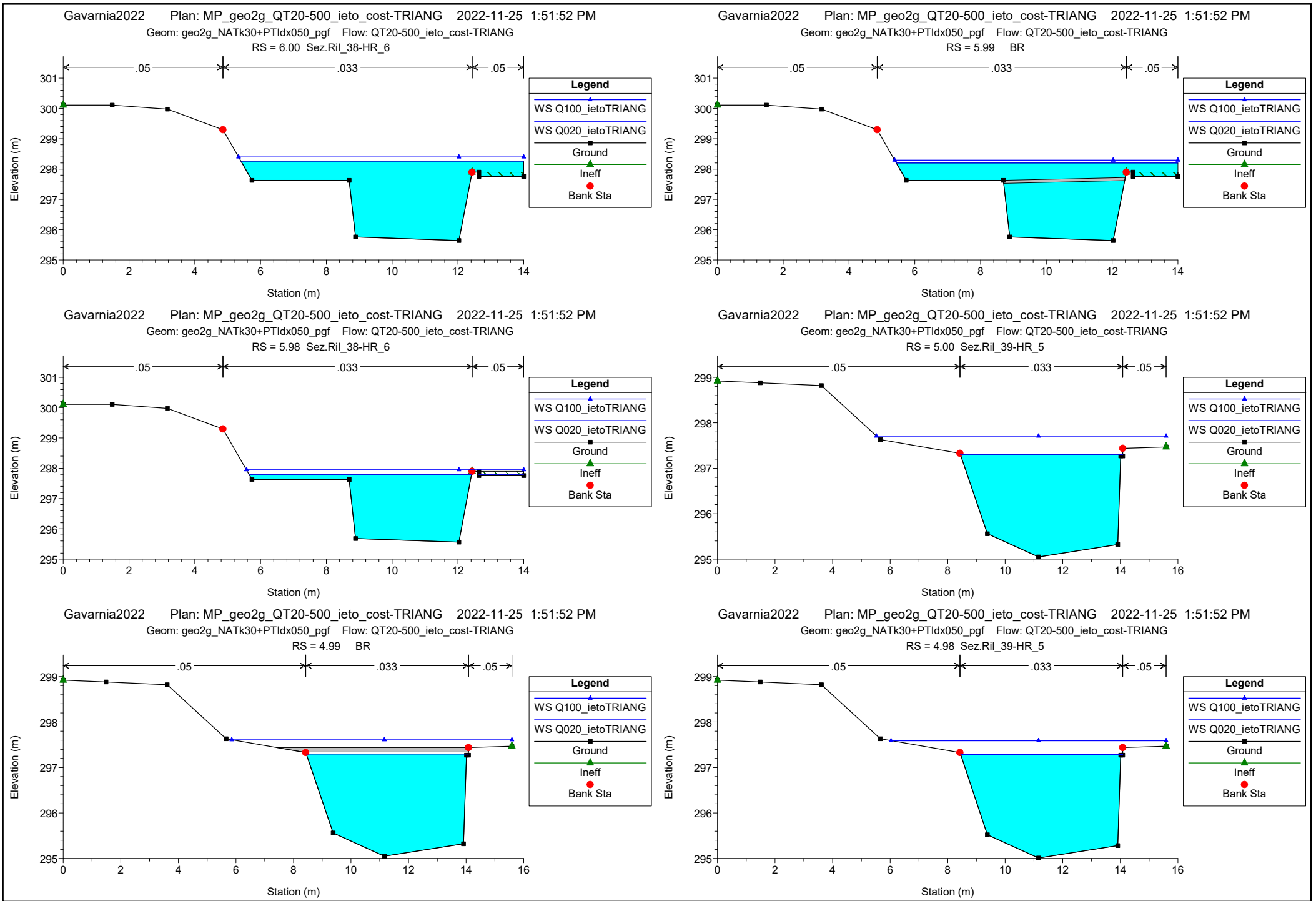


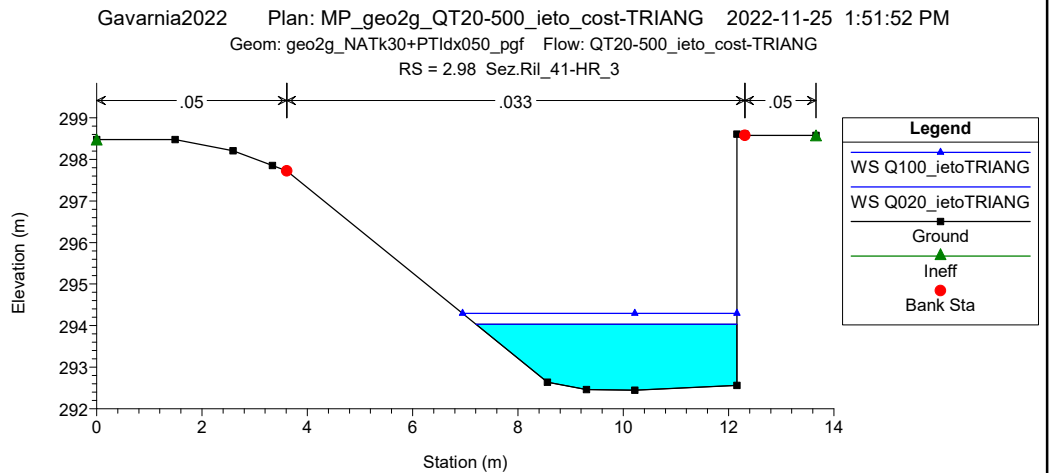
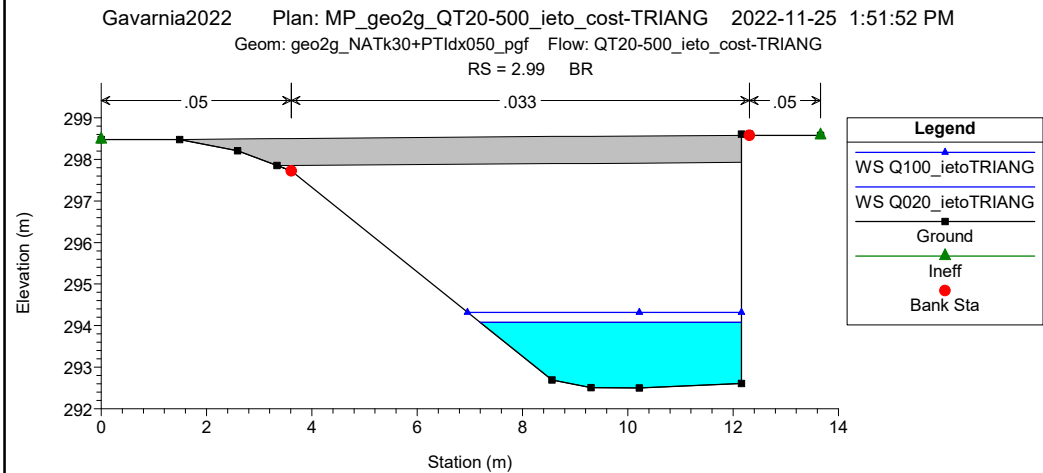
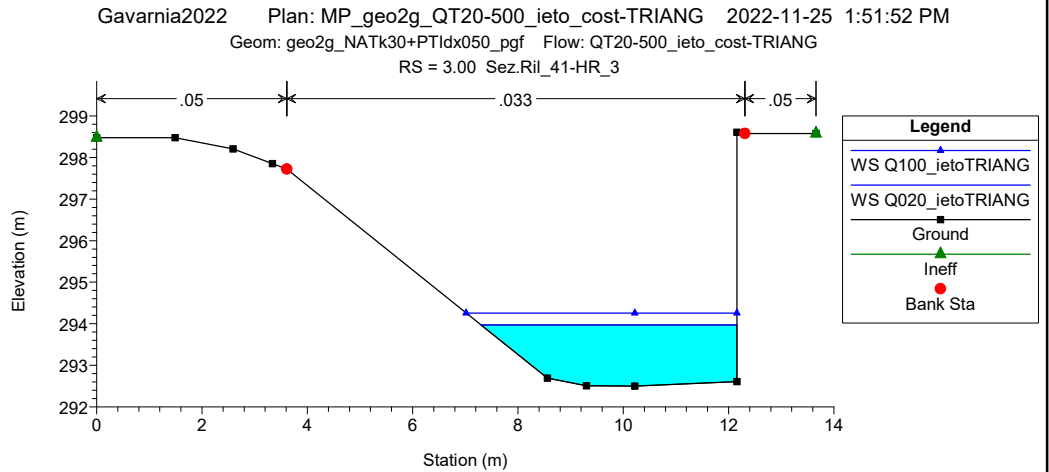
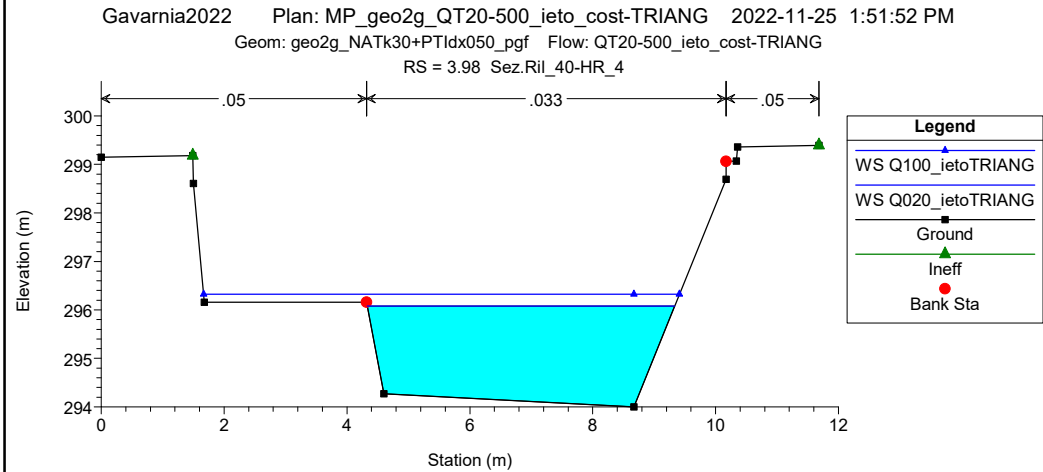
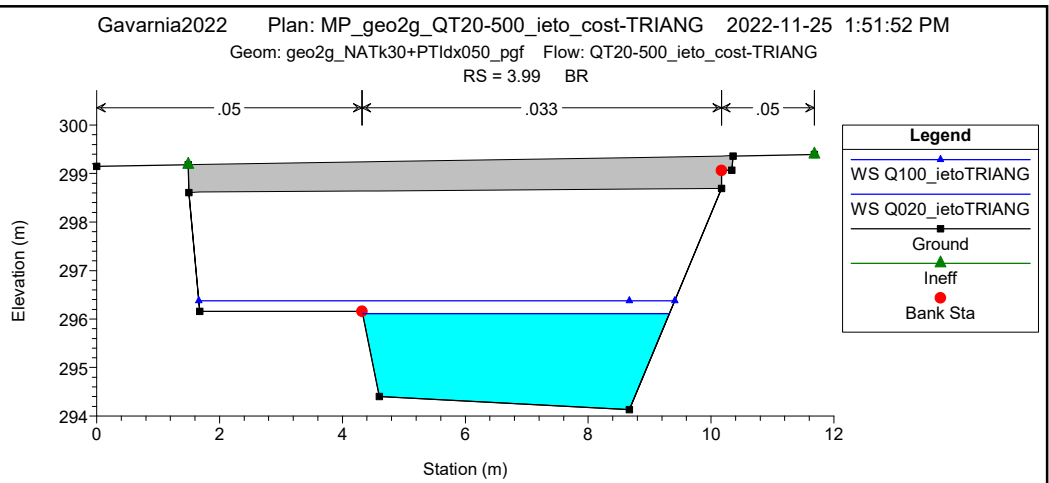
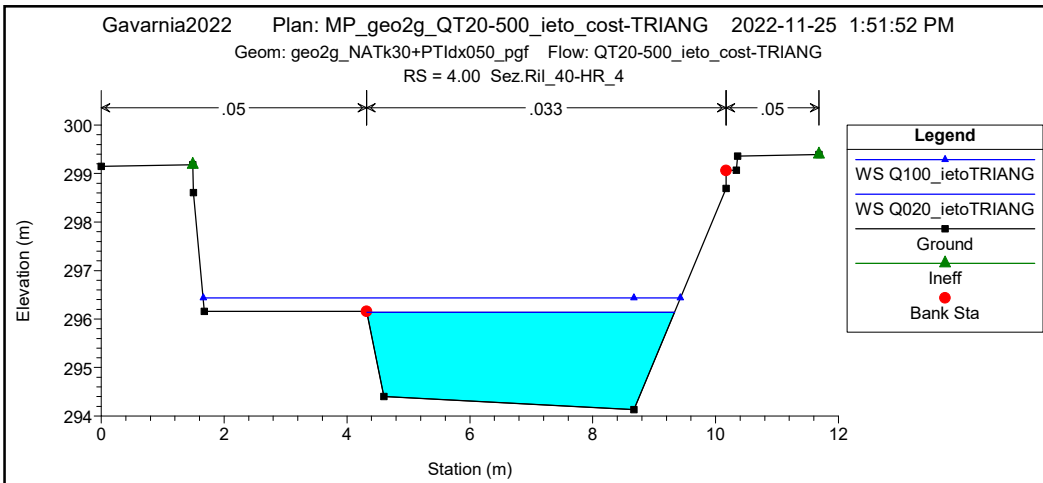






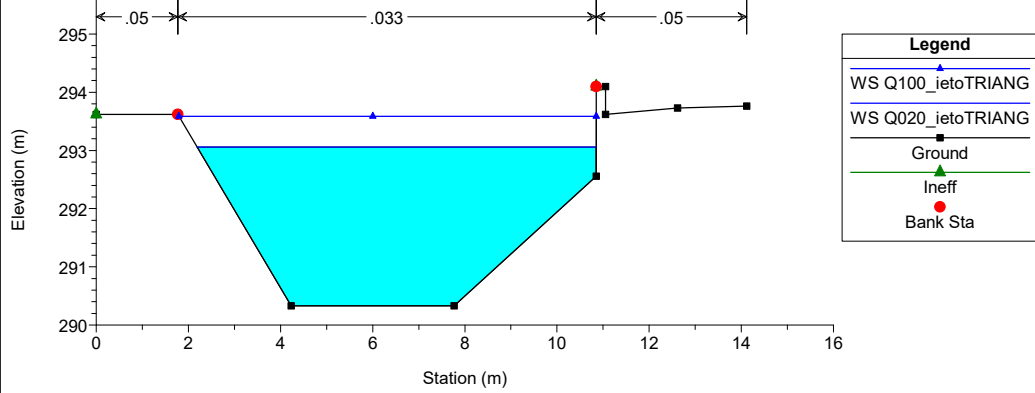






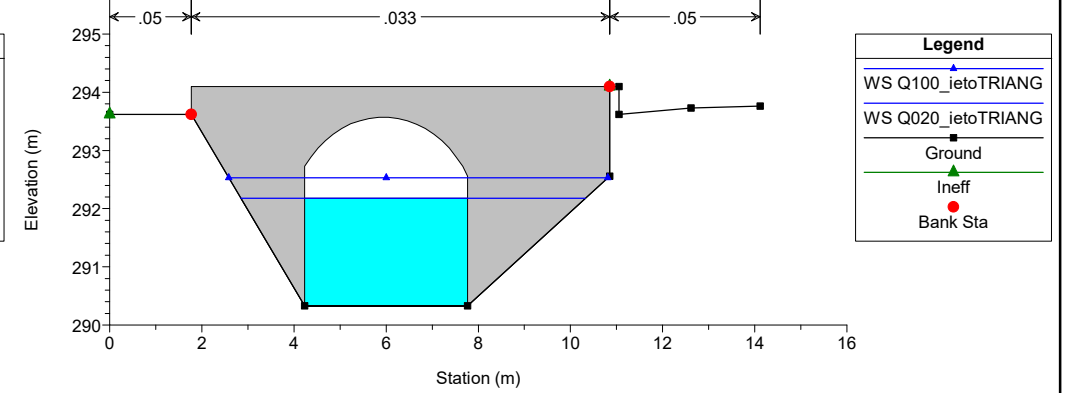
Gavarnia2022 Plan: MP_geo2g_QT20-500_ieto_cost-TRIANG 2022-11-25 1:51:52 PM

Geom: geo2g_NATk30+PTIdx050_pgf Flow: QT20-500_ieto_cost-TRIANG
RS = 2.00 Sez.Ril_42-HR_2



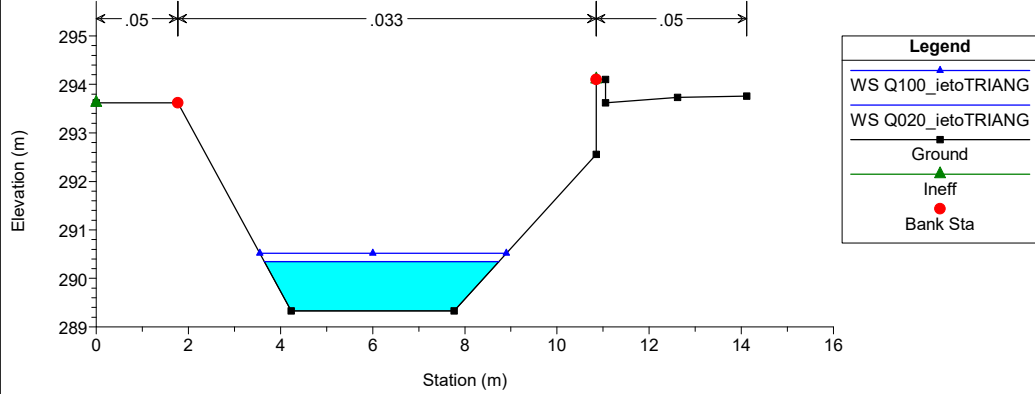
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Geom: geo2g_NATk30+PTIdx050_pgf Flow: QT20-500_ieto_cost-TRIANG
RS = 1.99 BR



Gavarnia2022 Plan: MP_geo2g_QT20-500_ieto_cost-TRIANG 2022-11-25 1:51:52 PM

Geom: geo2g_NATk30+PTIdx050_pgf Flow: QT20-500_ieto_cost-TRIANG
RS = 1.98 Sez.Ril_42-HR_2



Gavarnia2022 Plan: MP_geo2g_QT20-500_ieto_cost-TRIANG 2022-11-25 1:51:52 PM

Geom: geo2g_NATk30+PTIdx050_pgf Flow: QT20-500_ieto_cost-TRIANG
RS = 1.00 Sez.Ril_43-HR_1

