



REGIONE
CAMPANIA



PROVINCIA DI
AVELLINO



COMUNE DI
LACEDONIA



COMUNE DI
BISACCIA

OGGETTO:

“Progetto di un impianto agrivoltaico denominato "CSPV LACEDONIA", di potenza pari a 34,406 MWp e delle relative opere di connessione alla RTN, da realizzarsi nel comune di Lacedonia (AV) e Bisaccia (AV)”

ELABORATO:

Relazione idrologica e idraulica - Appendice B



PROPONENTE:



ABEI ENERGY GREEN ITALY IV S.R.L.
VIA VINCENZO BELLINI, 22
00198- ROMA (RM)
P.IVA 16335511008

PROGETTAZIONE:



Ing. Carmen Martone
Iscr. n. 1872
Ordine Ingegneri Potenza
C.F. MRTCMN73D56H703E



Geol. Raffaele Nardone
Iscr. n. 243
Ordine Geologi Basilicata
C.F. NRDRFL71H04A509H

EGM PROJECT S.R.L.
VIA VERRASTRO 15/A
85100- POTENZA (PZ)
P.IVA 02094310766
REA PZ-206983

Livello prog.	Cat. opera	N°. prog.elaborato	Tipo elaborato	N° foglio	Tot. fogli	Nome file	Scala
PD	I.IF	A.44.b	R			A44.b_Relazione_idraulica_AppB	

REV.	DATA	DESCRIZIONE	ESEGUITO	VERIFICATO	APPROVATO
00	DICEMBRE 2023	Emissione		Geol. Raffaele Nardone EGM Project	Ing. Carmen Martone EGM Project



River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
River 2	Reach 2	446	PF 1	1.56	724.48	724.84	724.84	724.95	0.018204	1.48	1.05	4.76	1
River 2	Reach 2	446	PF 2	4.11	724.48	725.04	725.04	725.18	0.017441	1.67	2.46	8.94	1.02
River 2	Reach 2	436	PF 1	1.56	722.95	723.17	723.39	724.34	0.347741	4.8	0.33	2.26	4.04
River 2	Reach 2	436	PF 2	4.11	722.95	723.34	723.66	724.65	0.18155	5.05	0.81	3.18	3.19
River 2	Reach 2	422	PF 1	1.56	719.87	720.01	720.07	720.26	0.204799	2.2	0.71	10.98	2.77
River 2	Reach 2	422	PF 2	4.11	719.87	720.05	720.16	720.71	0.396615	3.6	1.14	13.84	4.01
River 2	Reach 2	410	PF 1	1.56	717.42	717.65	717.75	718.06	0.170651	2.83	0.55	5.1	2.75
River 2	Reach 2	410	PF 2	4.11	717.42	717.76	717.92	718.34	0.120578	3.36	1.22	6.76	2.52
River 2	Reach 2	404	PF 1	1.56	716.43	716.65	716.74	716.99	0.161801	2.57	0.61	6.22	2.63
River 2	Reach 2	404	PF 2	4.11	716.43	716.73	716.9	717.42	0.173378	3.69	1.12	7.01	2.95
River 2	Reach 2	392	PF 1	1.56	714.63	714.77	714.84	715.03	0.158151	2.28	0.69	8.29	2.53
River 2	Reach 2	392	PF 2	4.11	714.63	714.84	714.97	715.34	0.161619	3.14	1.31	9.93	2.76
River 2	Reach 2	381	PF 1	1.56	712.98	713.11	713.18	713.35	0.141538	2.16	0.72	8.76	2.4
River 2	Reach 2	381	PF 2	4.11	712.98	713.18	713.31	713.65	0.140099	3.02	1.36	9.85	2.6
River 2	Reach 2	371	PF 1	1.56	711.69	711.89	711.96	712.13	0.108719	2.19	0.71	6.93	2.17
River 2	Reach 2	371	PF 2	4.11	711.69	711.97	712.12	712.45	0.105372	3.06	1.34	7.64	2.34

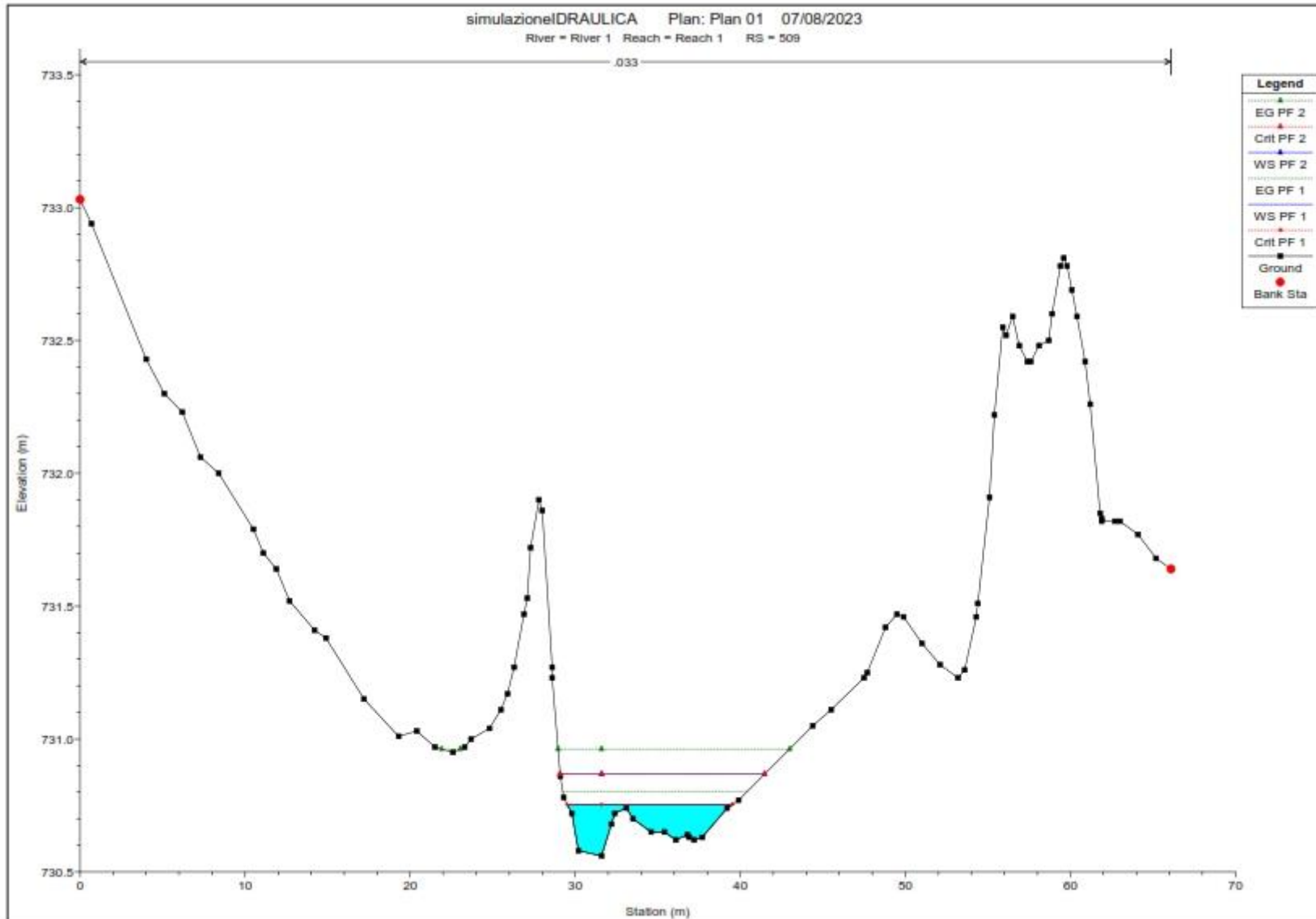


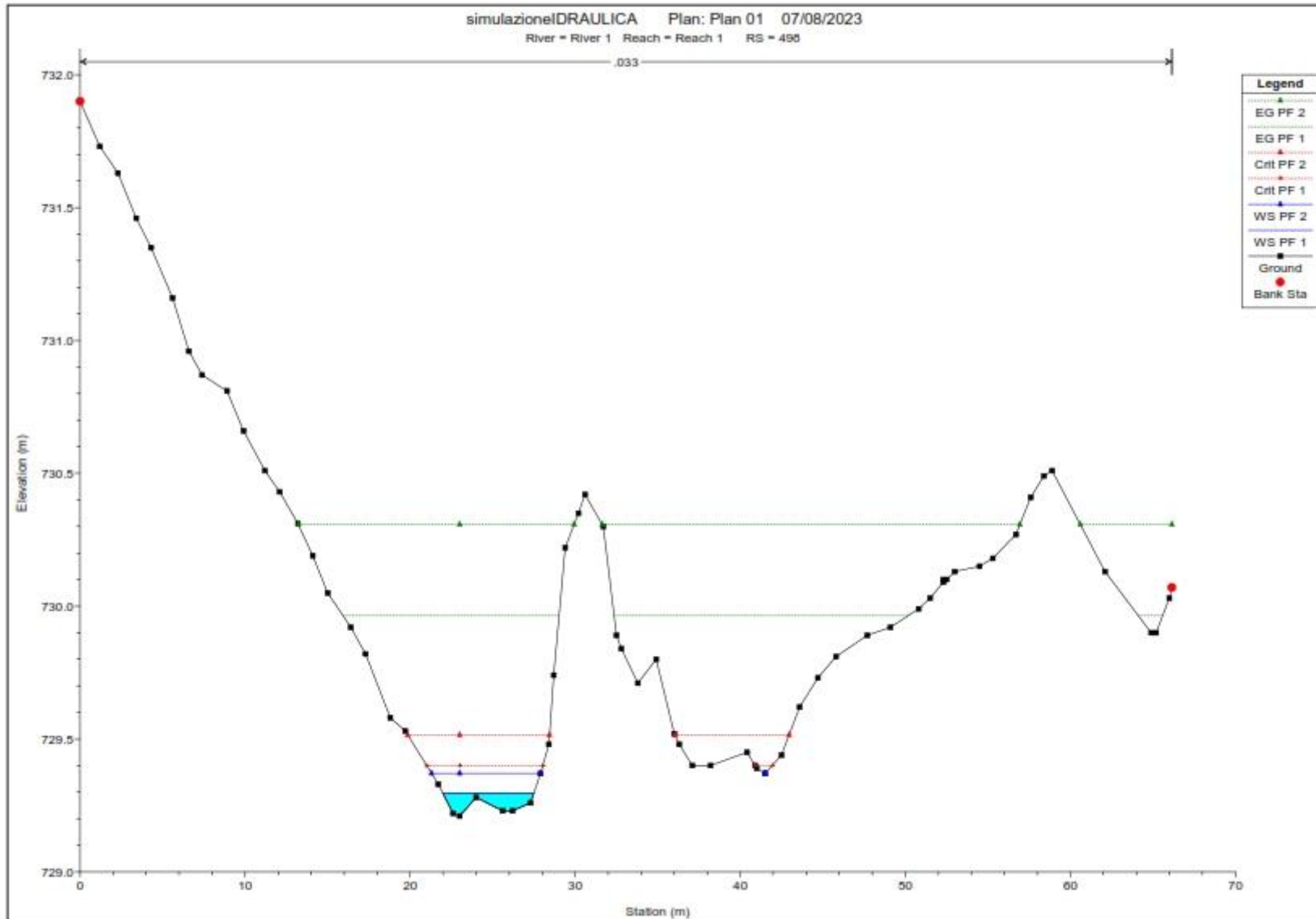
**PROGETTO DI UN IMPIANTO AGRIVOLTAICO DENOMINATO
"CSPV LACEDONIA", DI POTENZA PARI A 34,406 MWP
E DELLE RELATIVE OPERE DI CONNESSIONE ALLA RTN, DA REALIZZARSI
NEL COMUNE DI LACEDONIA (AV) E BISACCIA (AV)
RELAZIONE IDROLOGICA E IDRAULICA – APPENDICE B**

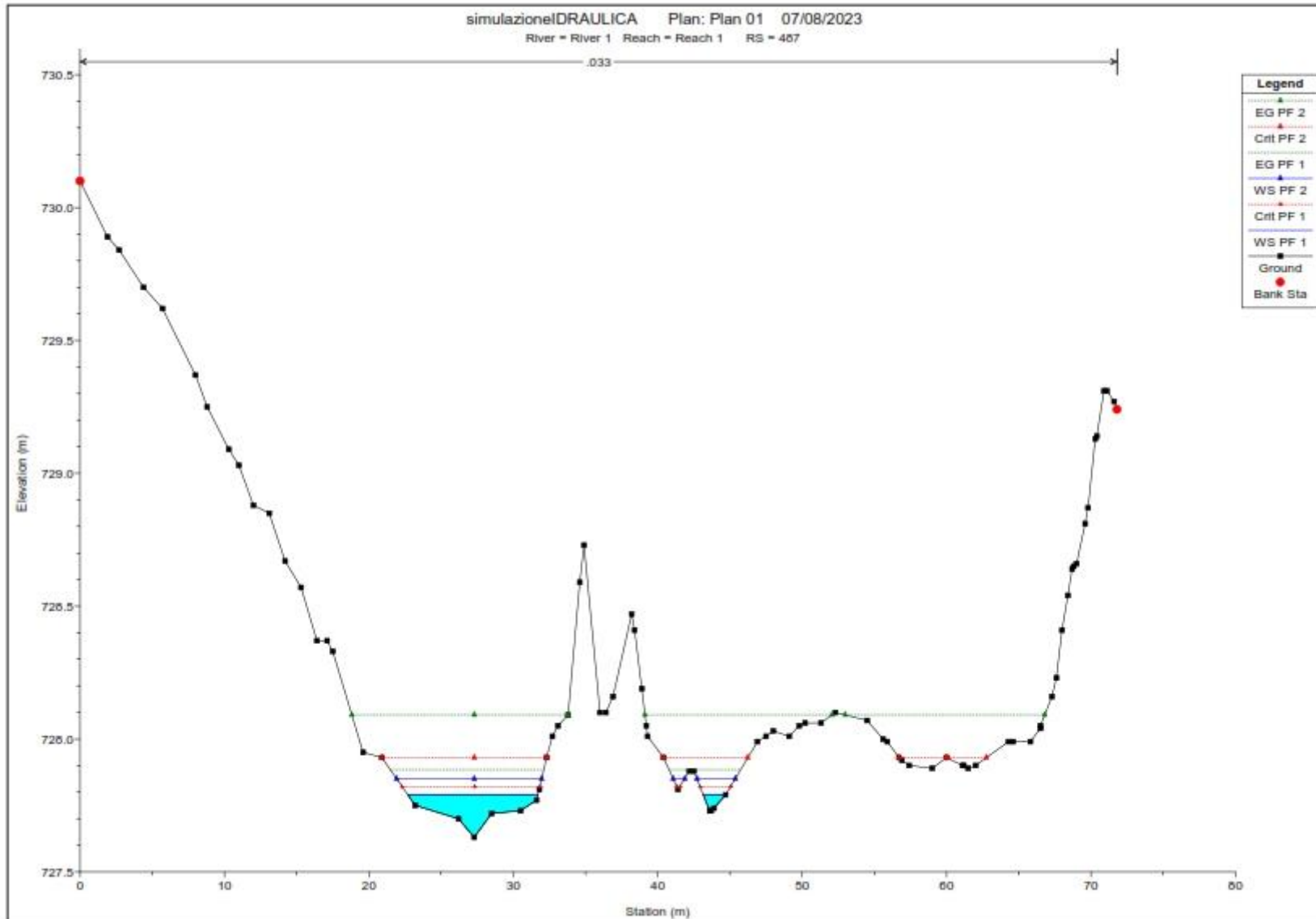
**DATA:
DICEMBRE 2023
Pag. 14 di 207**

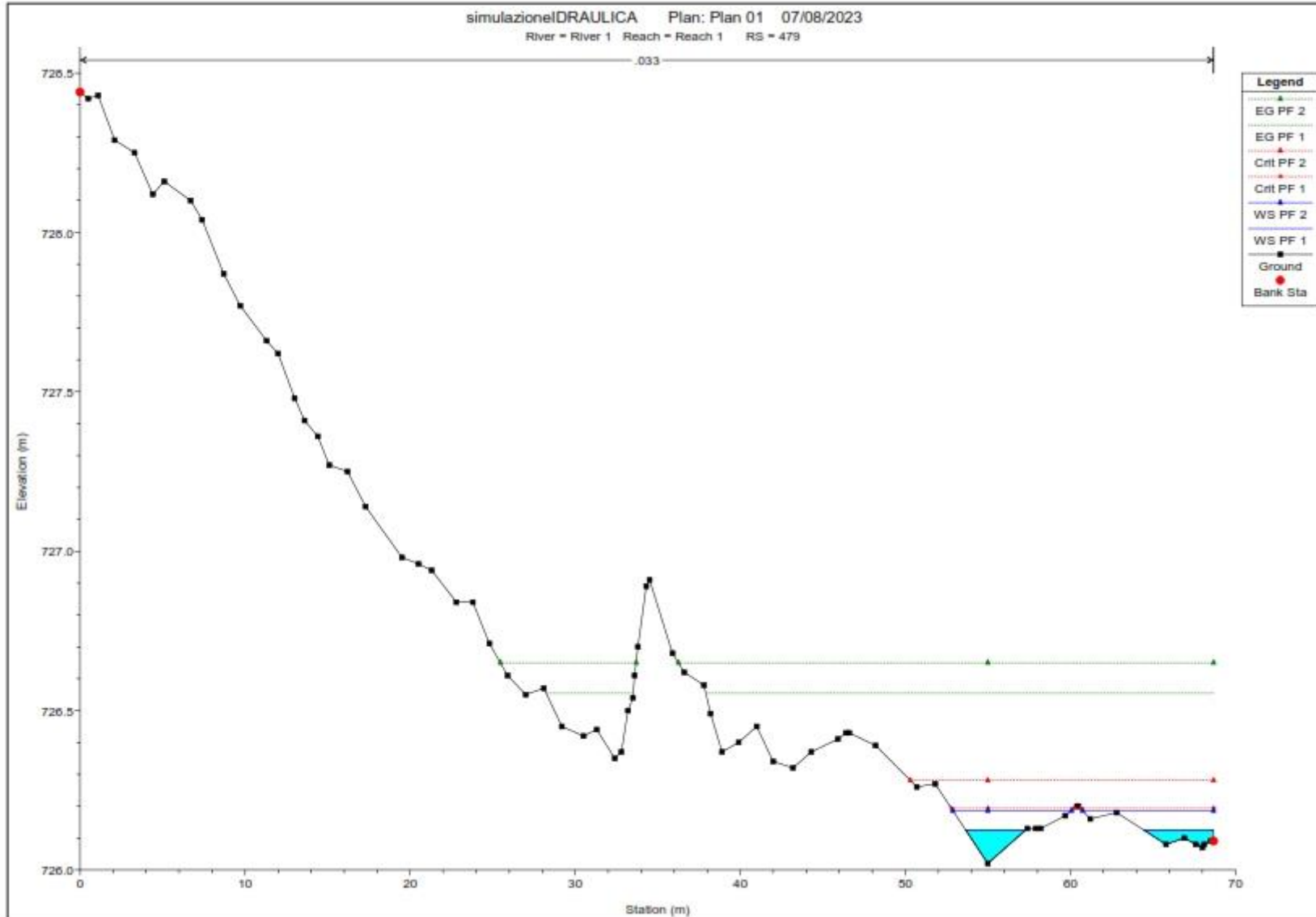
River 1	Reach 1	50	PF 1	0.97	670.03	670.11	670.16	670.32	0.401678	2.02	0.48	14.04	3.49
River 1	Reach 1	50	PF 2	3.1	670.03	670.16	670.24	670.52	0.24497	2.68	1.16	15.34	3.11
River 1	Reach 1	41	PF 1	0.97	668.54	668.63	668.68	668.78	0.098842	1.7	0.57	7.49	1.96
River 1	Reach 1	41	PF 2	3.1	668.54	668.7	668.81	669.07	0.122437	2.7	1.15	8.79	2.38
River 1	Reach 1	35	PF 1	0.97	667.91	668.07	668.13	668.24	0.07433	1.82	0.53	4.99	1.78
River 1	Reach 1	35	PF 2	3.1	667.91	668.19	668.29	668.51	0.065286	2.5	1.24	6.5	1.82
River 1	Reach 1	19	PF 1	0.97	663.79	664.25	664.52	665.65	0.516438	5.23	0.19	1	3.88
River 1	Reach 1	19	PF 2	3.1	663.79	664.5	664.9	666.36	0.341744	6.04	0.51	1.71	3.52

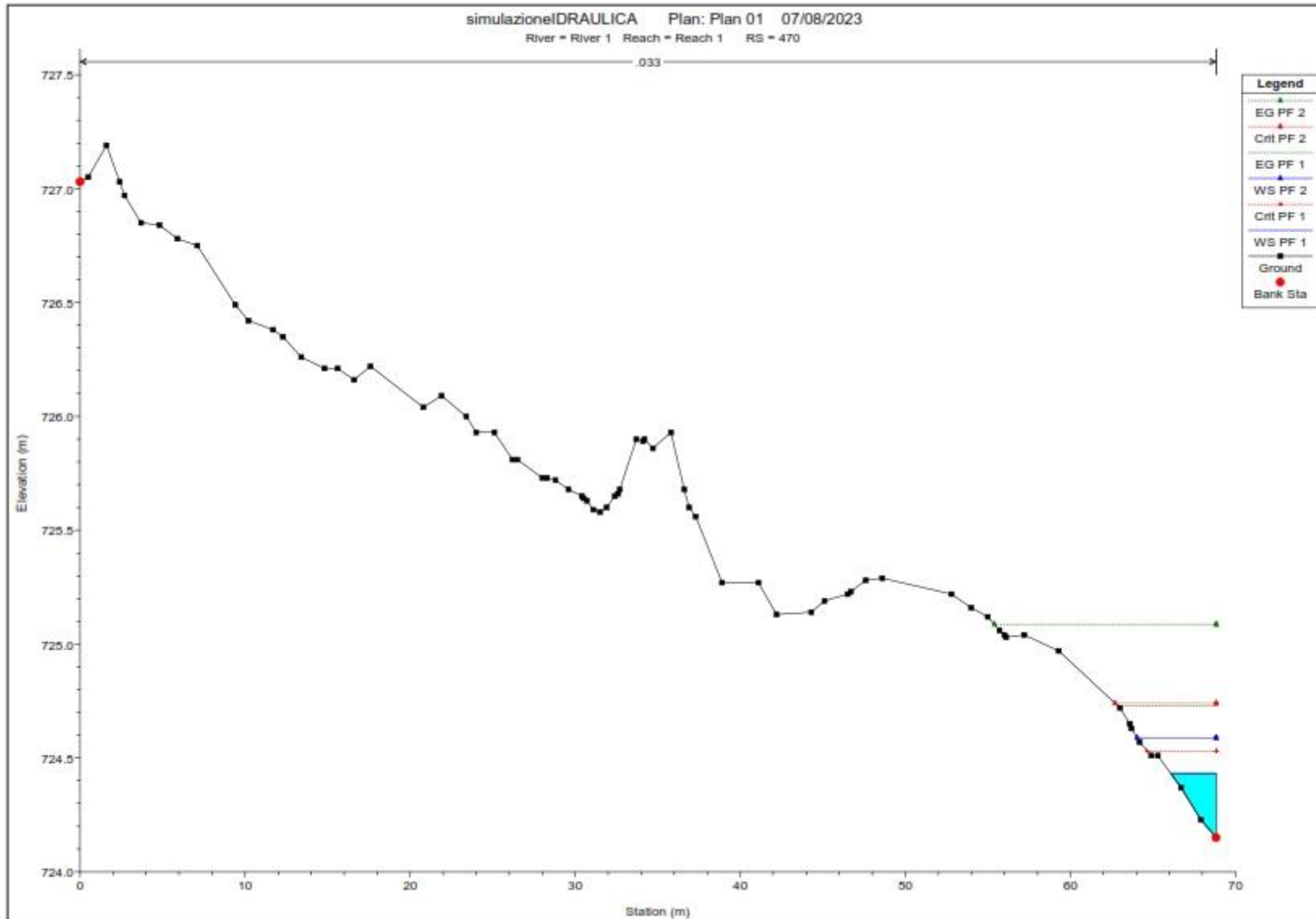
Tabella n. 1: Valori di Portata Q30 e Q200 per i corpi idrici nell'area di impianto

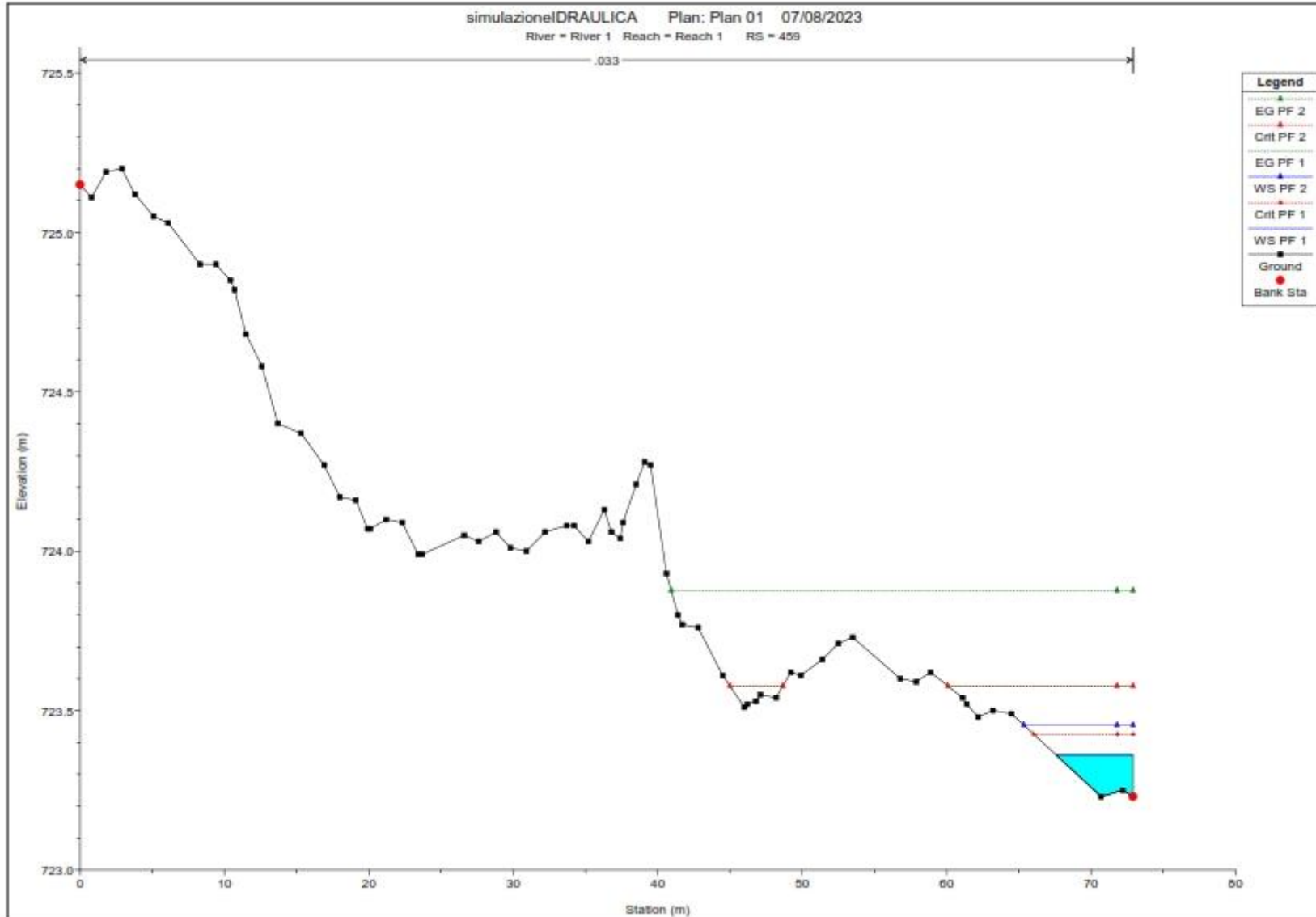


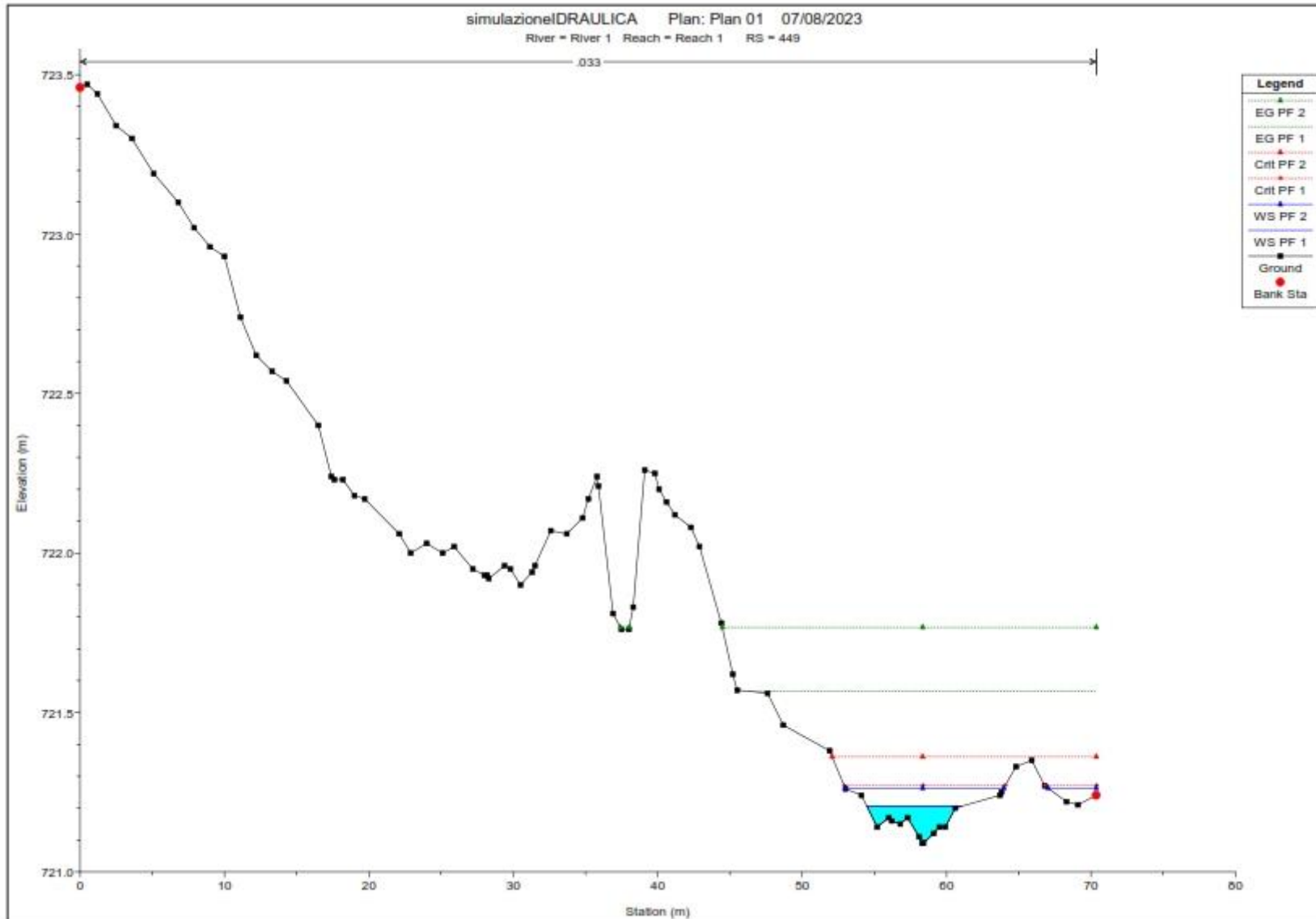


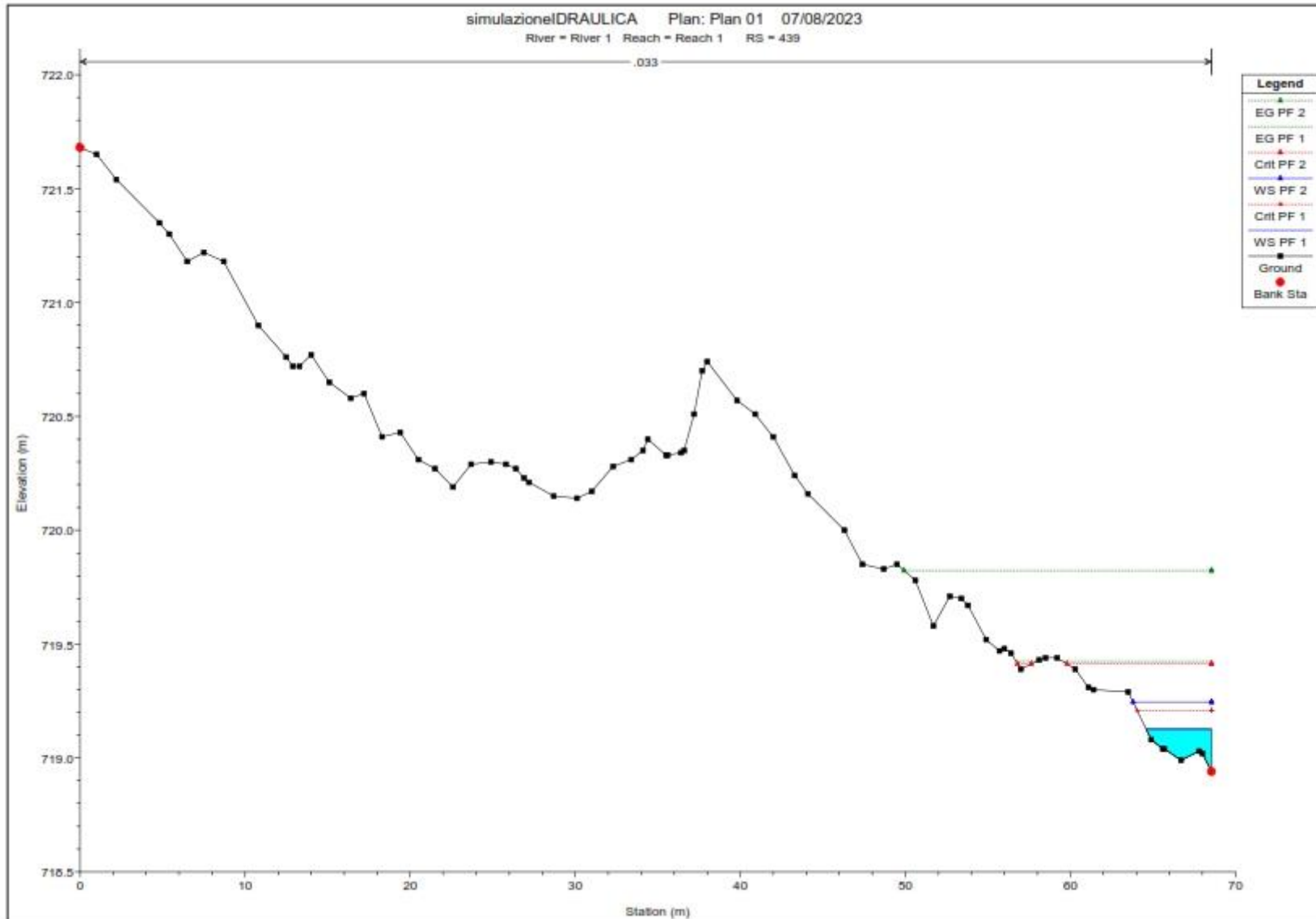


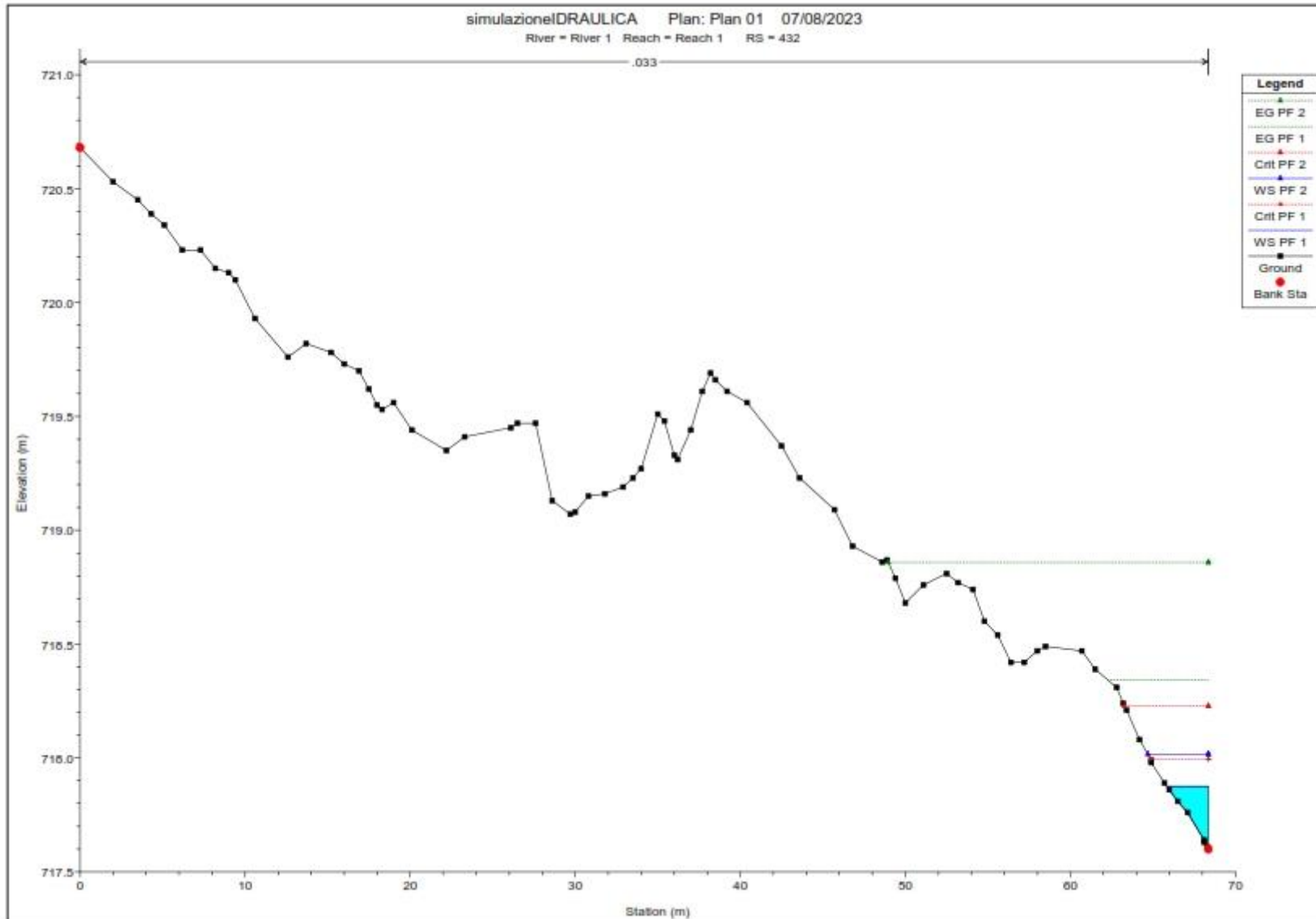


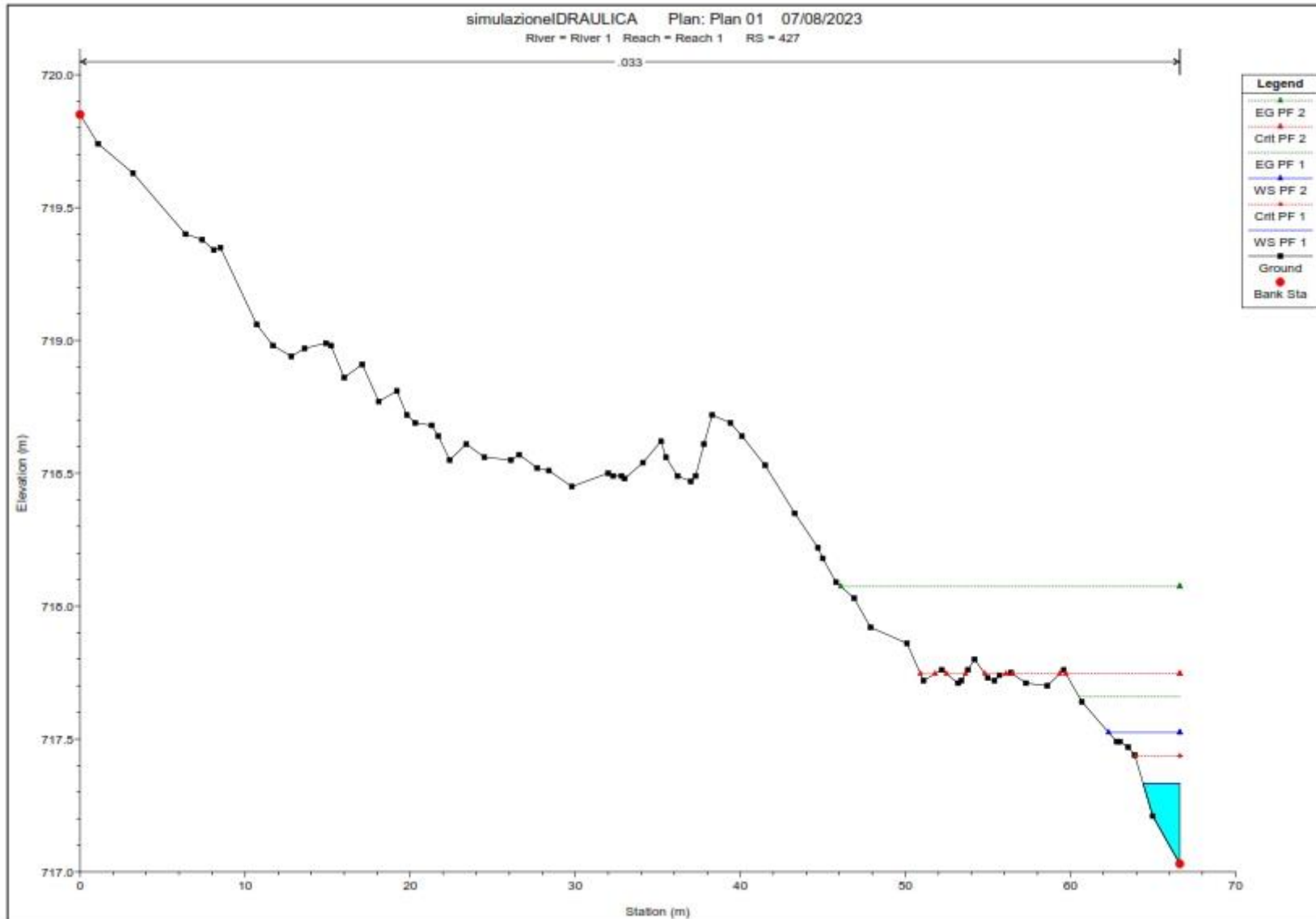


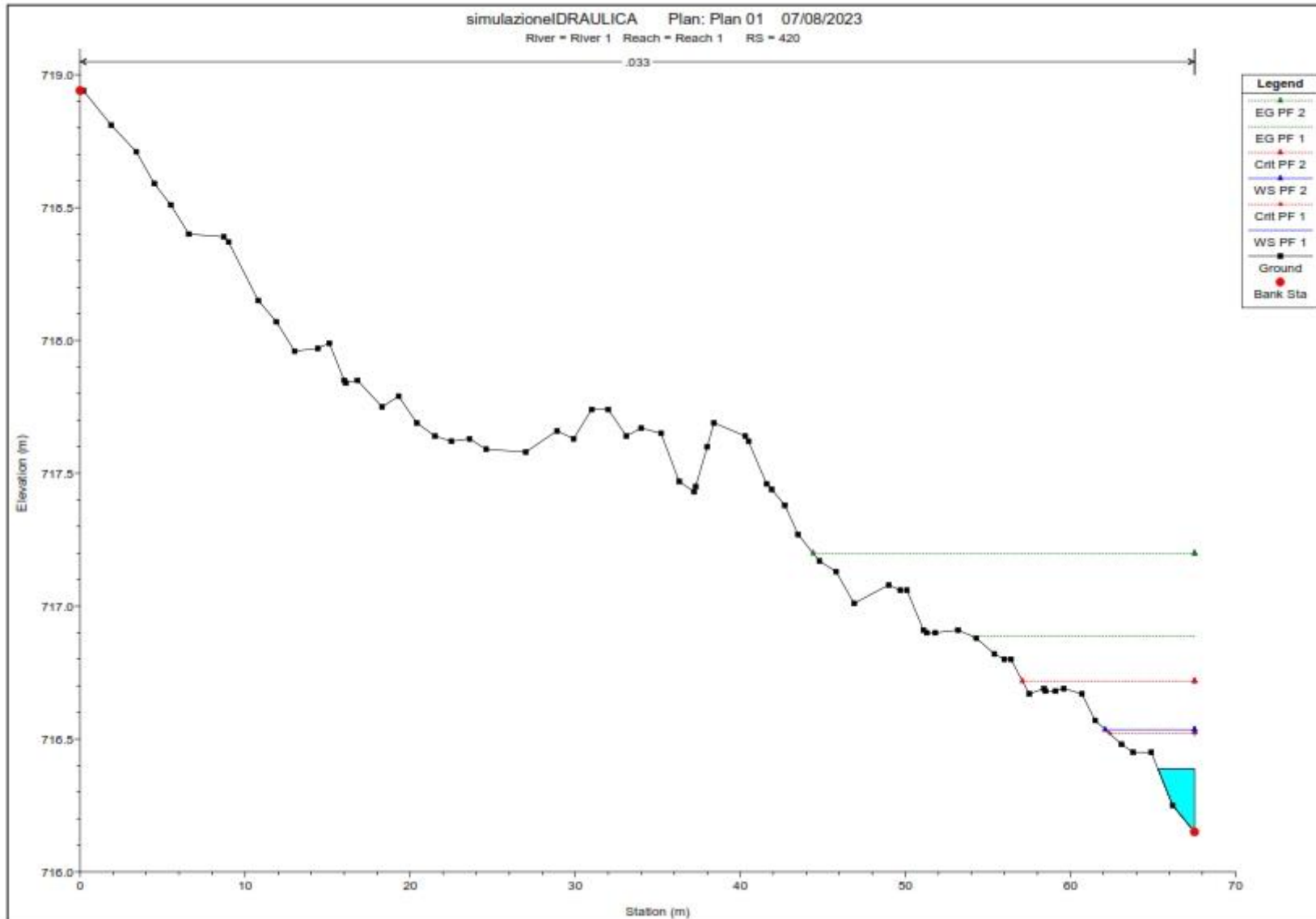


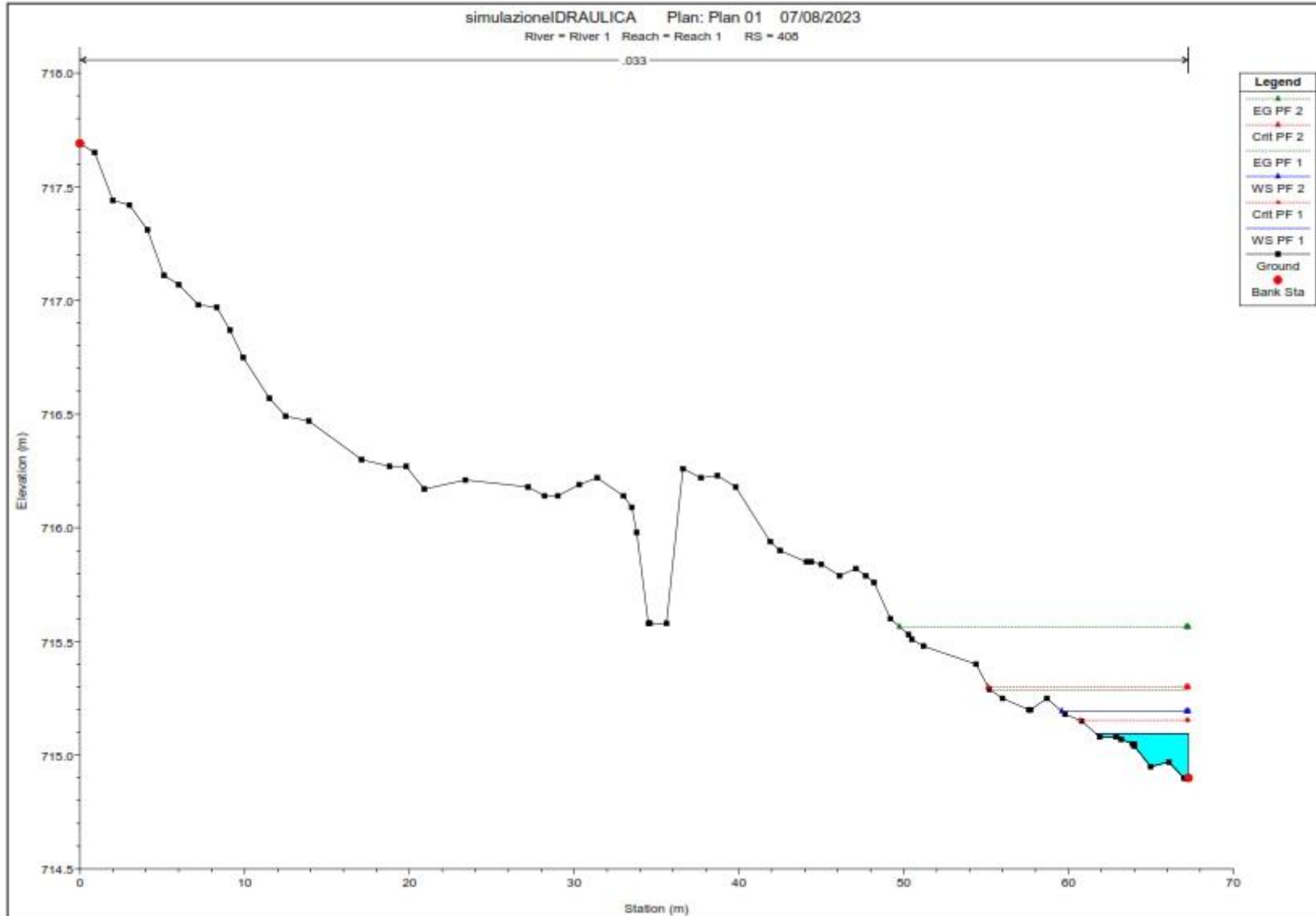


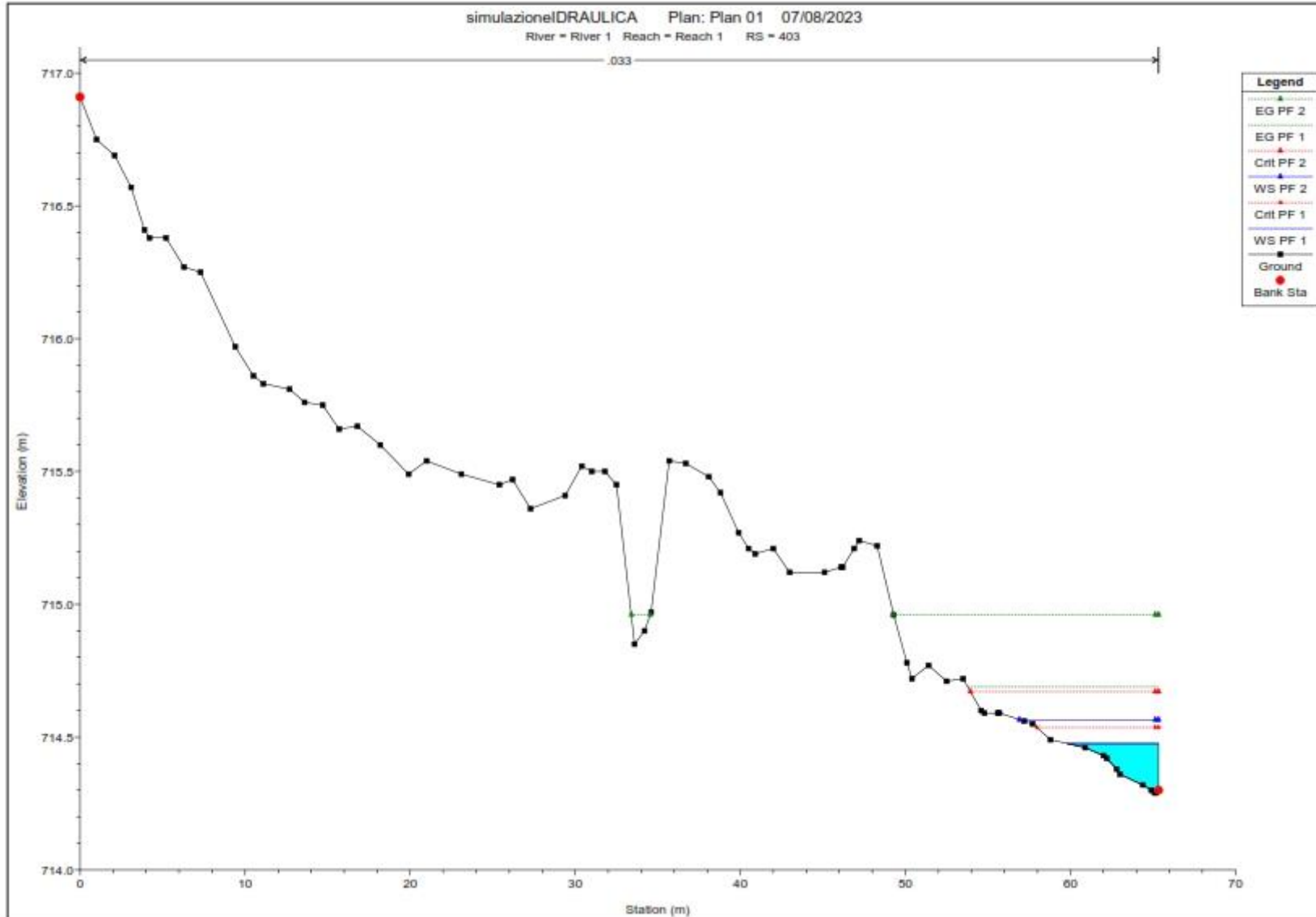


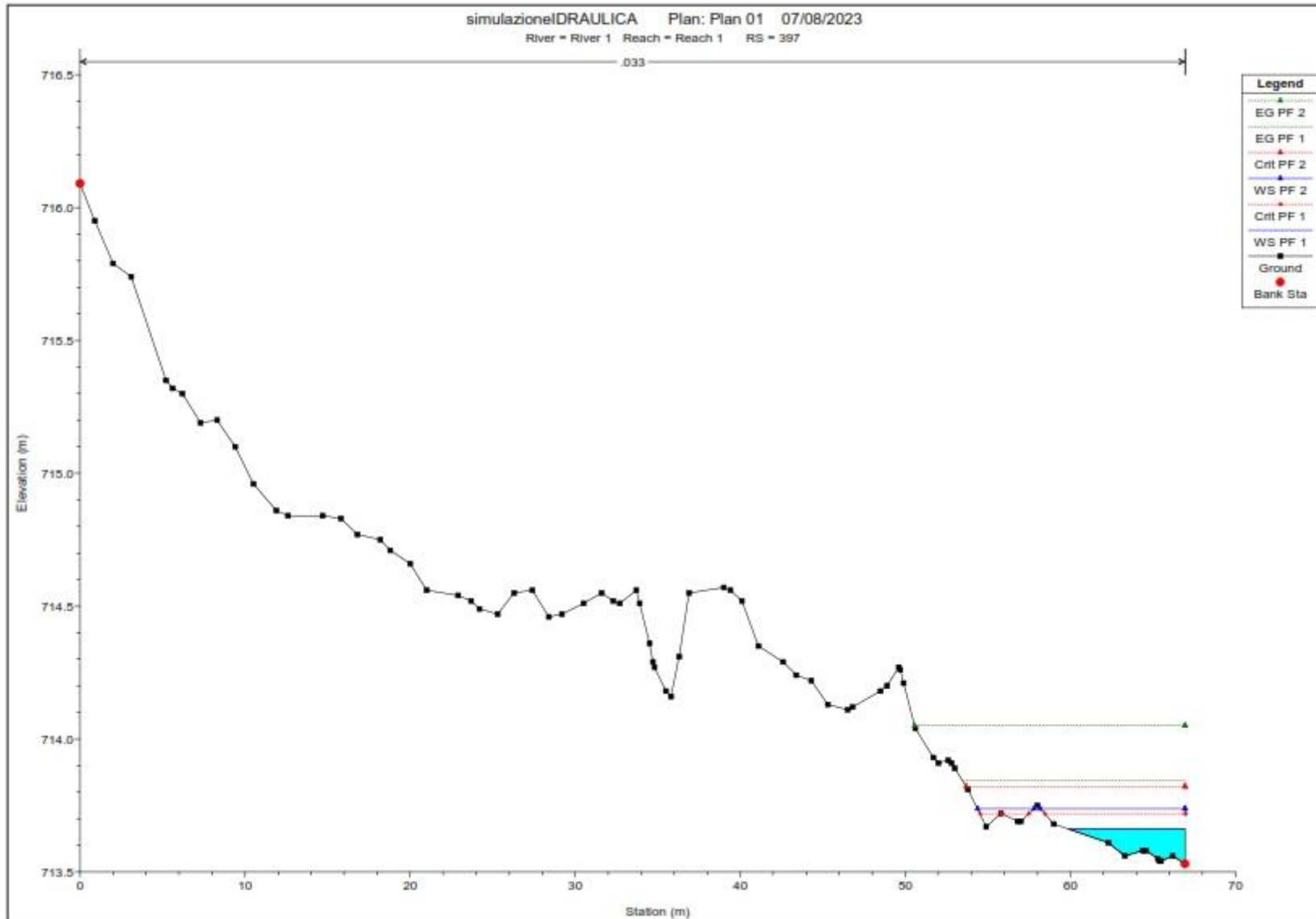


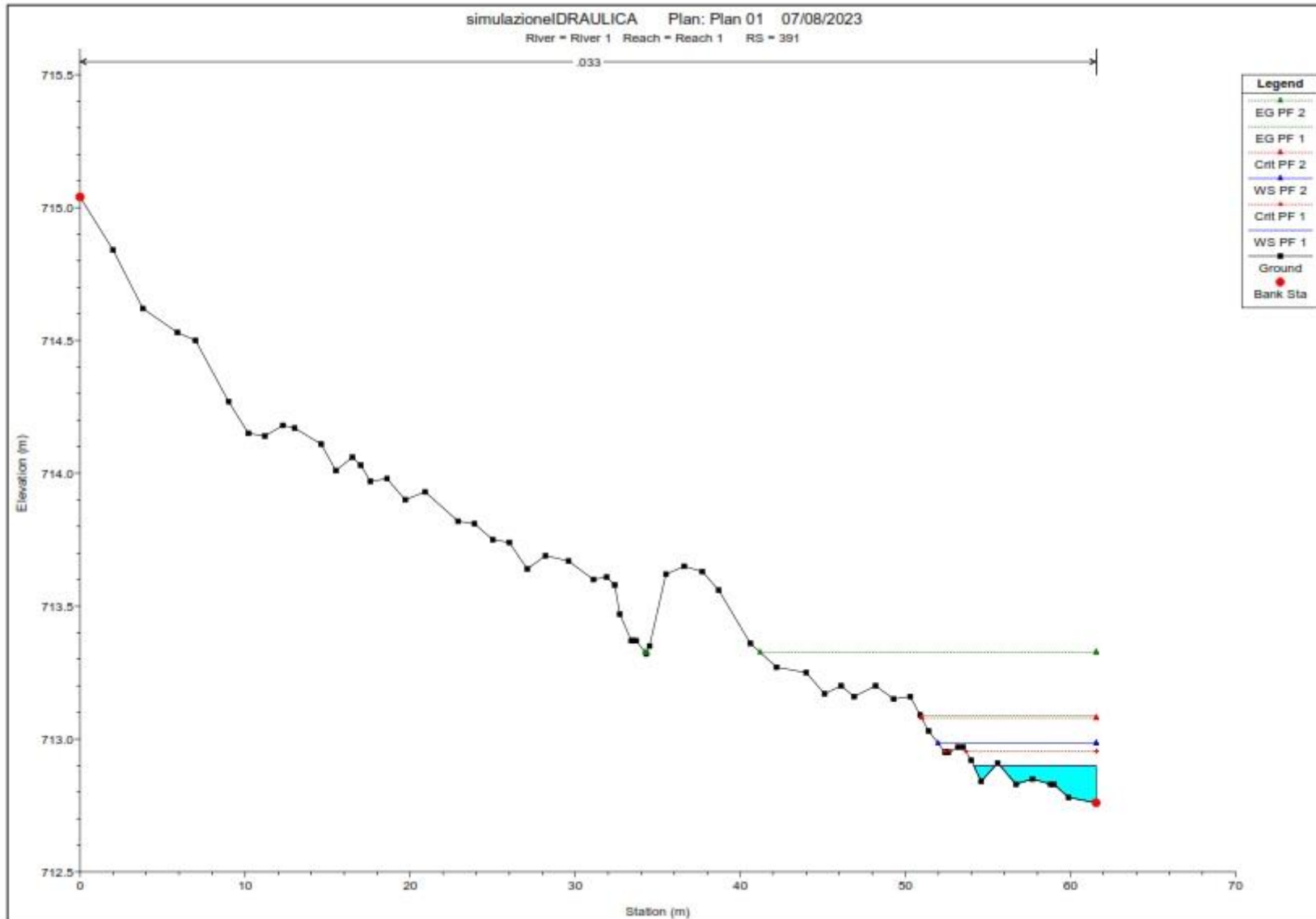


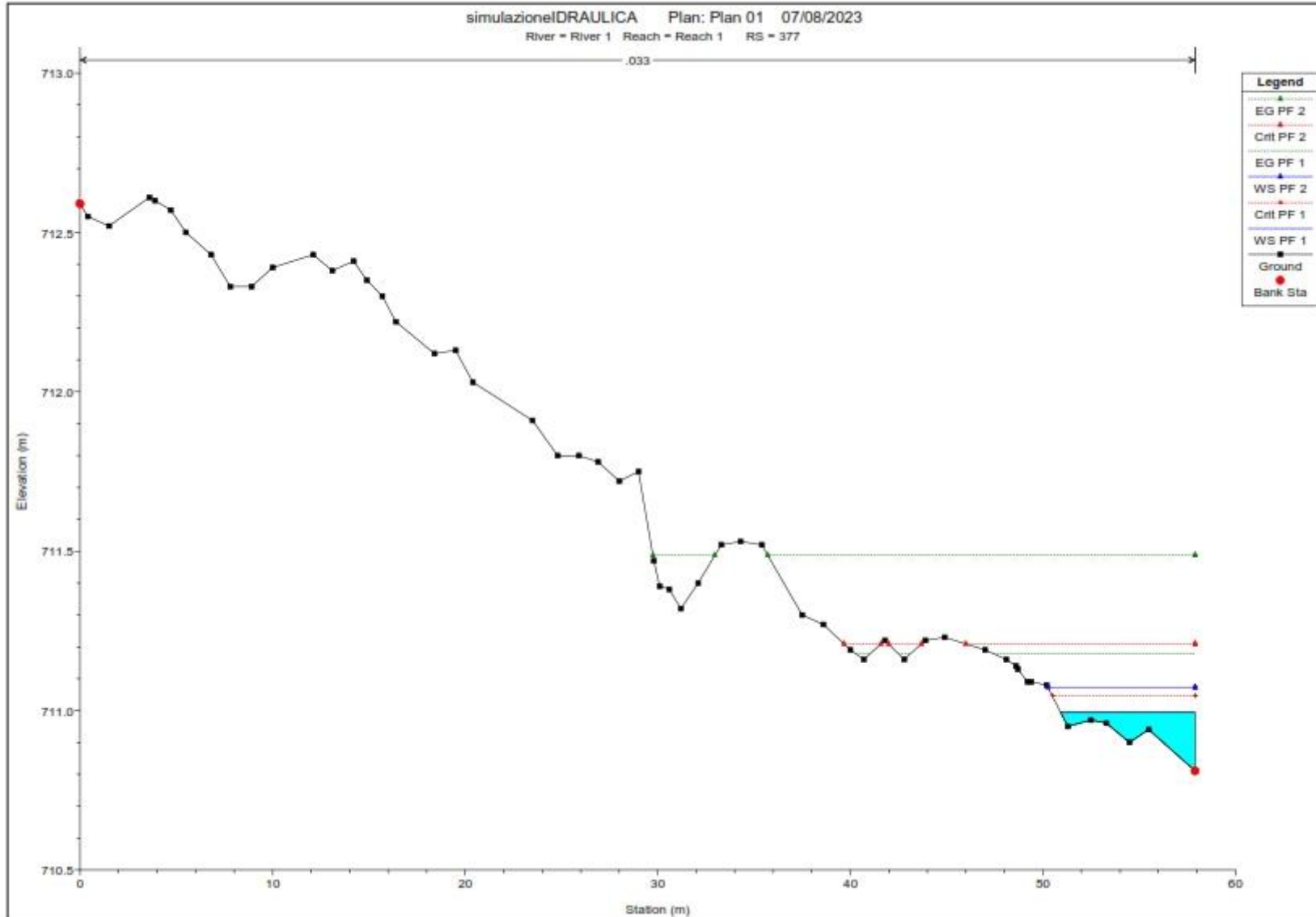


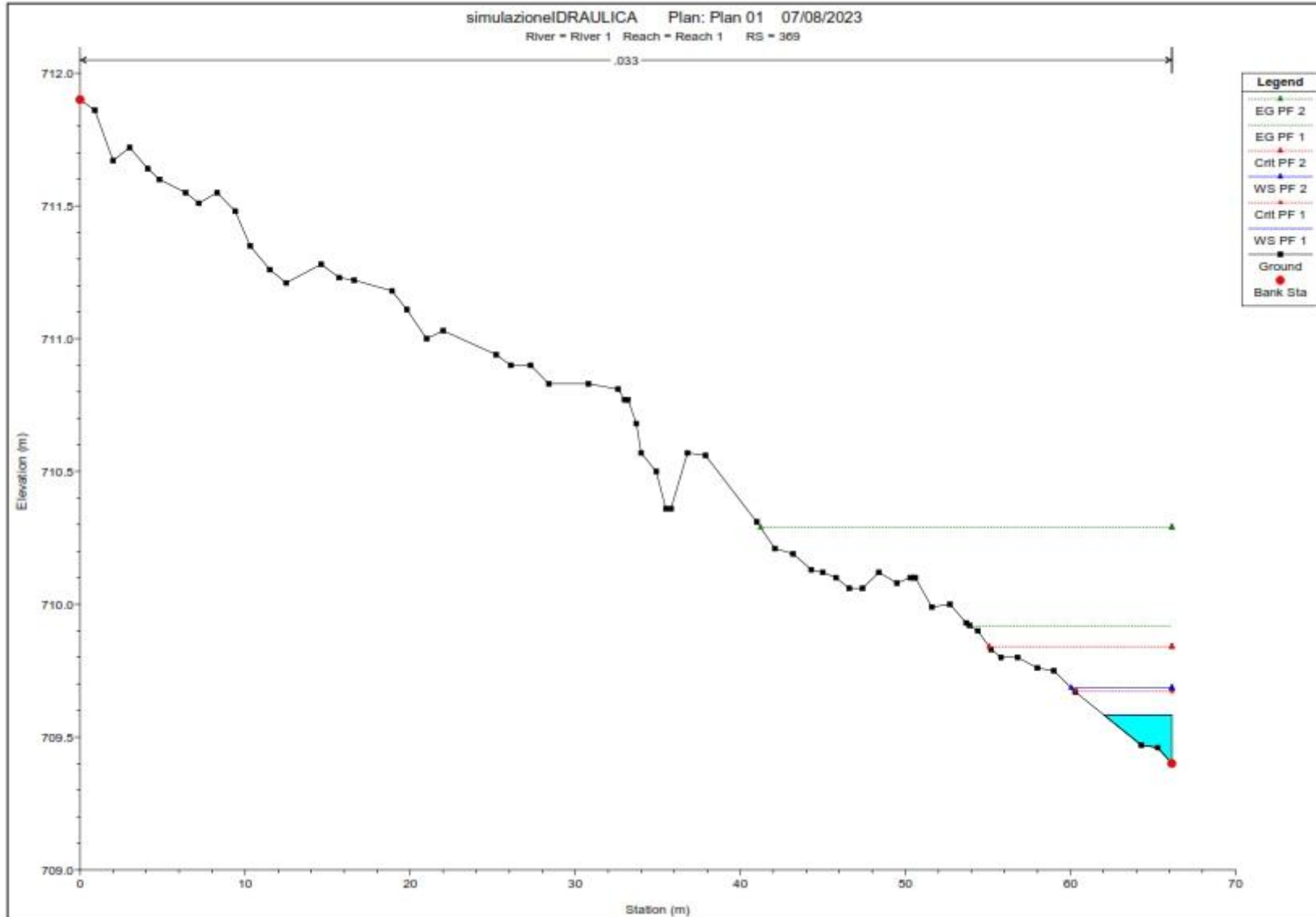


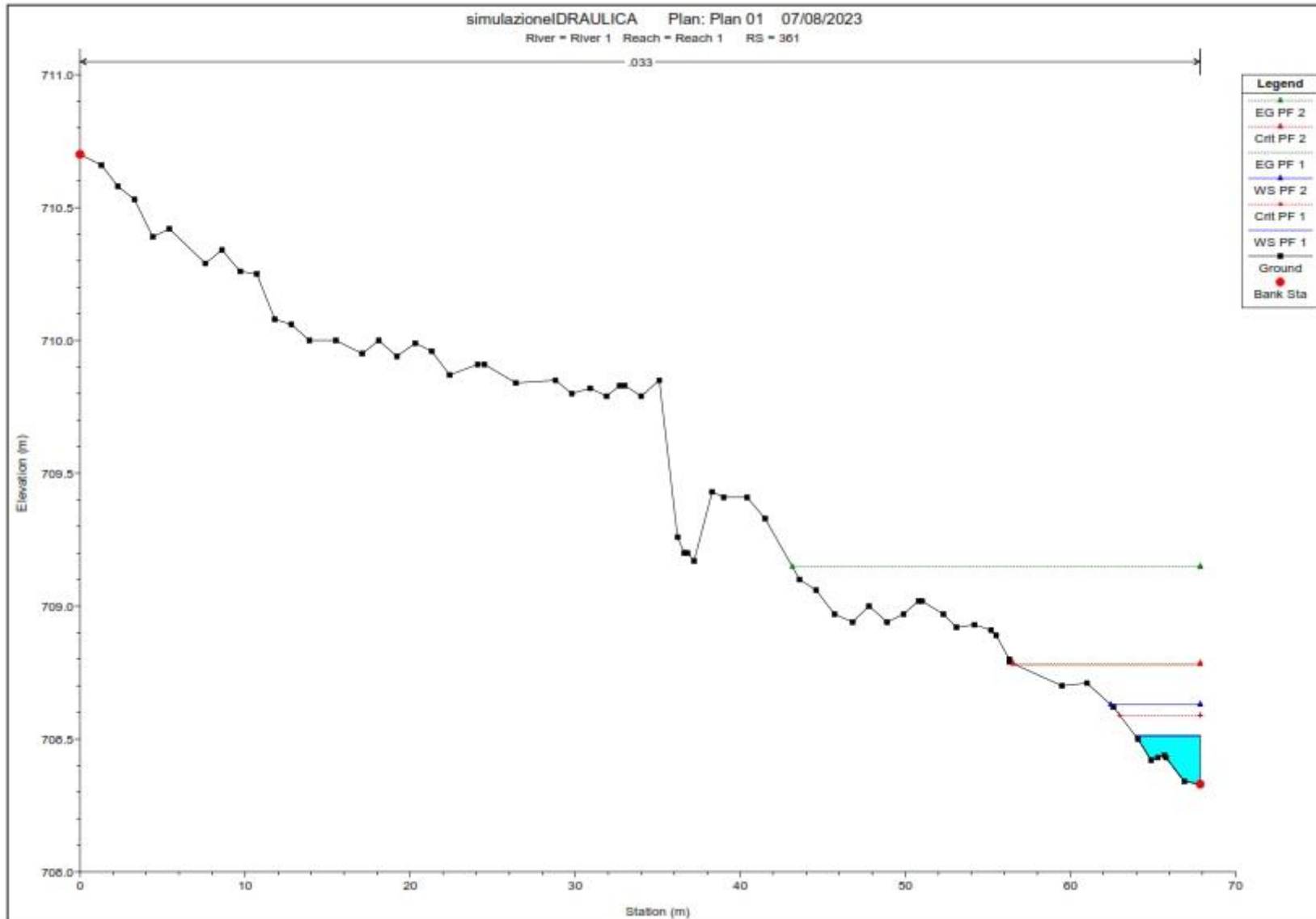


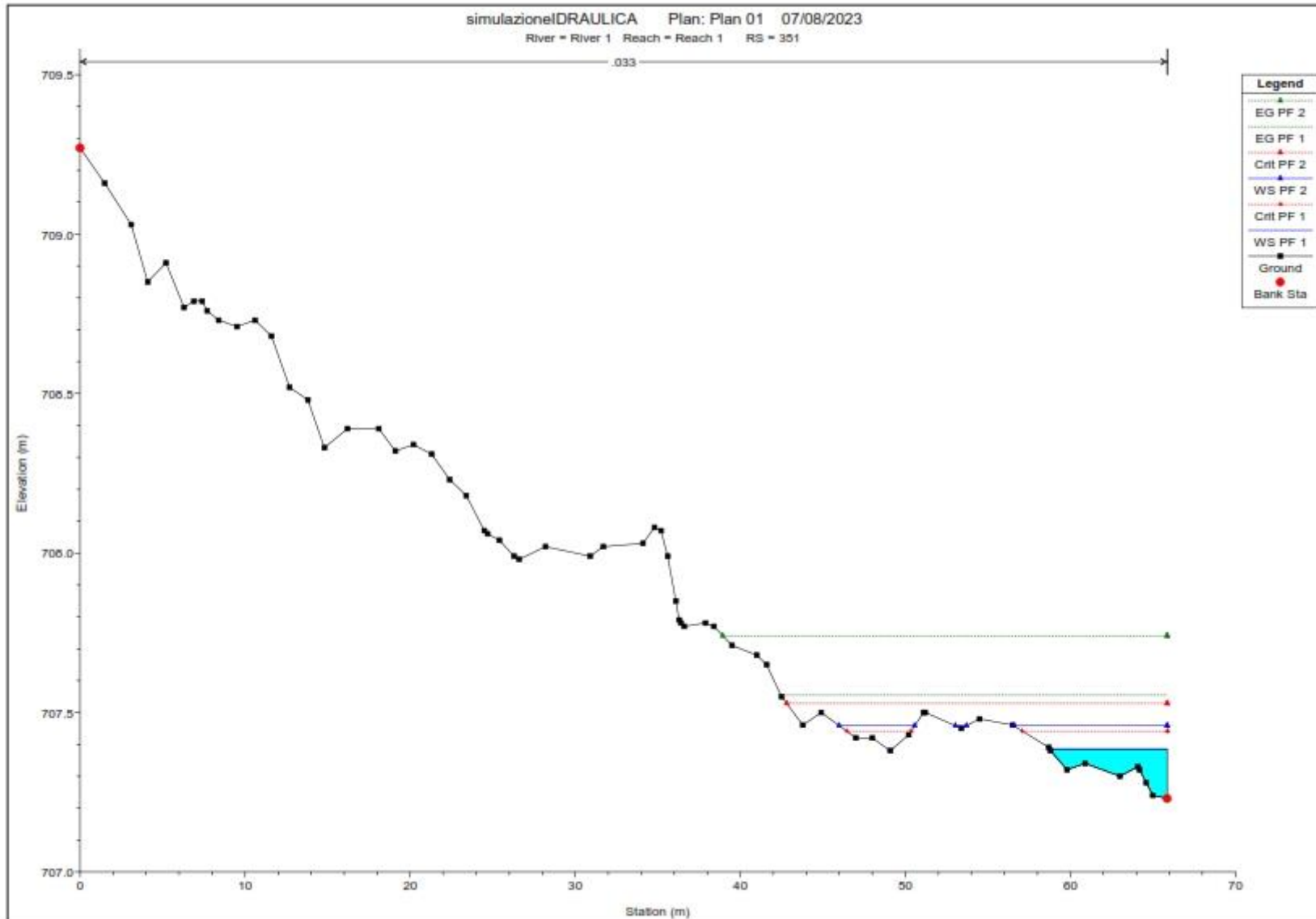


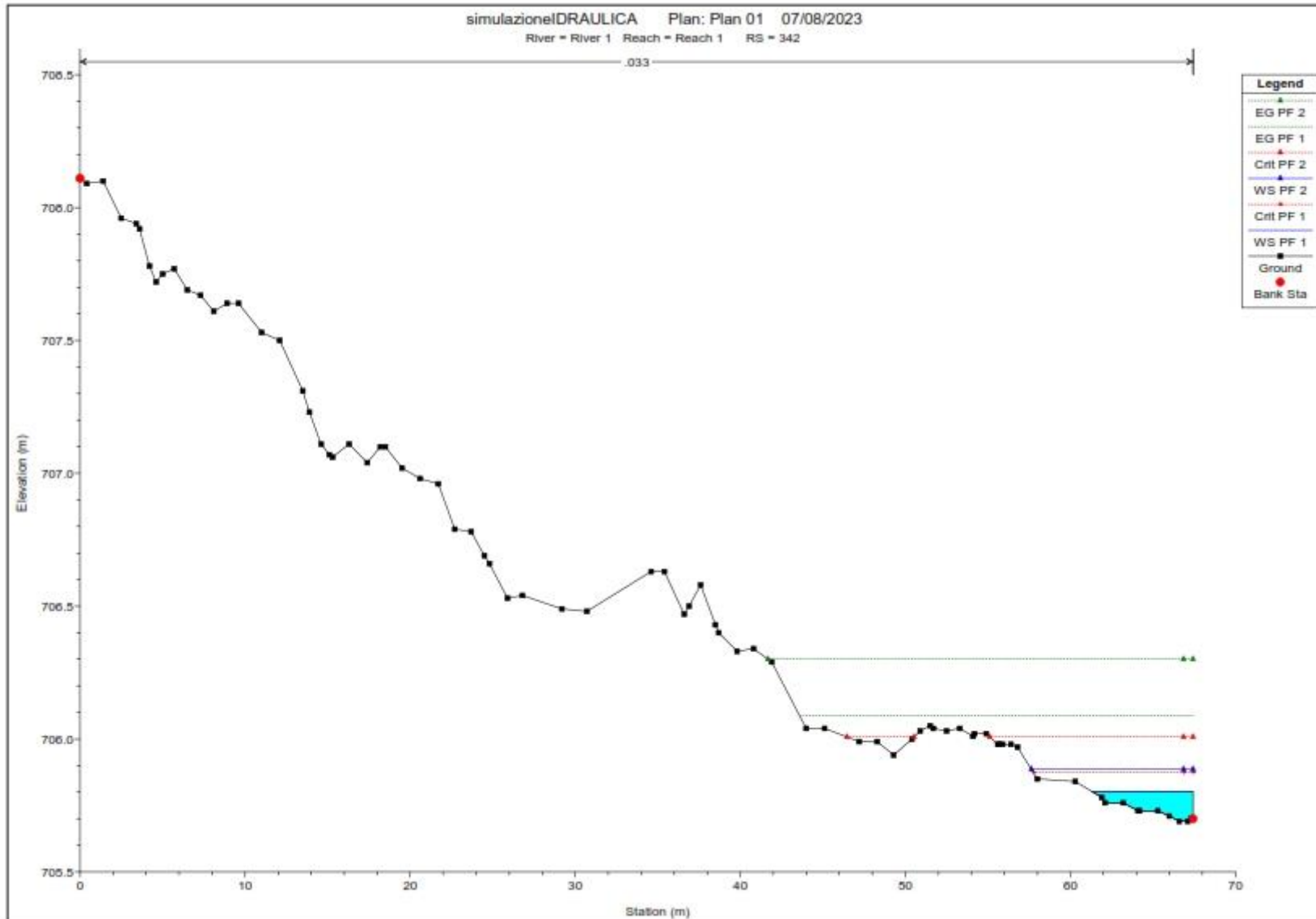


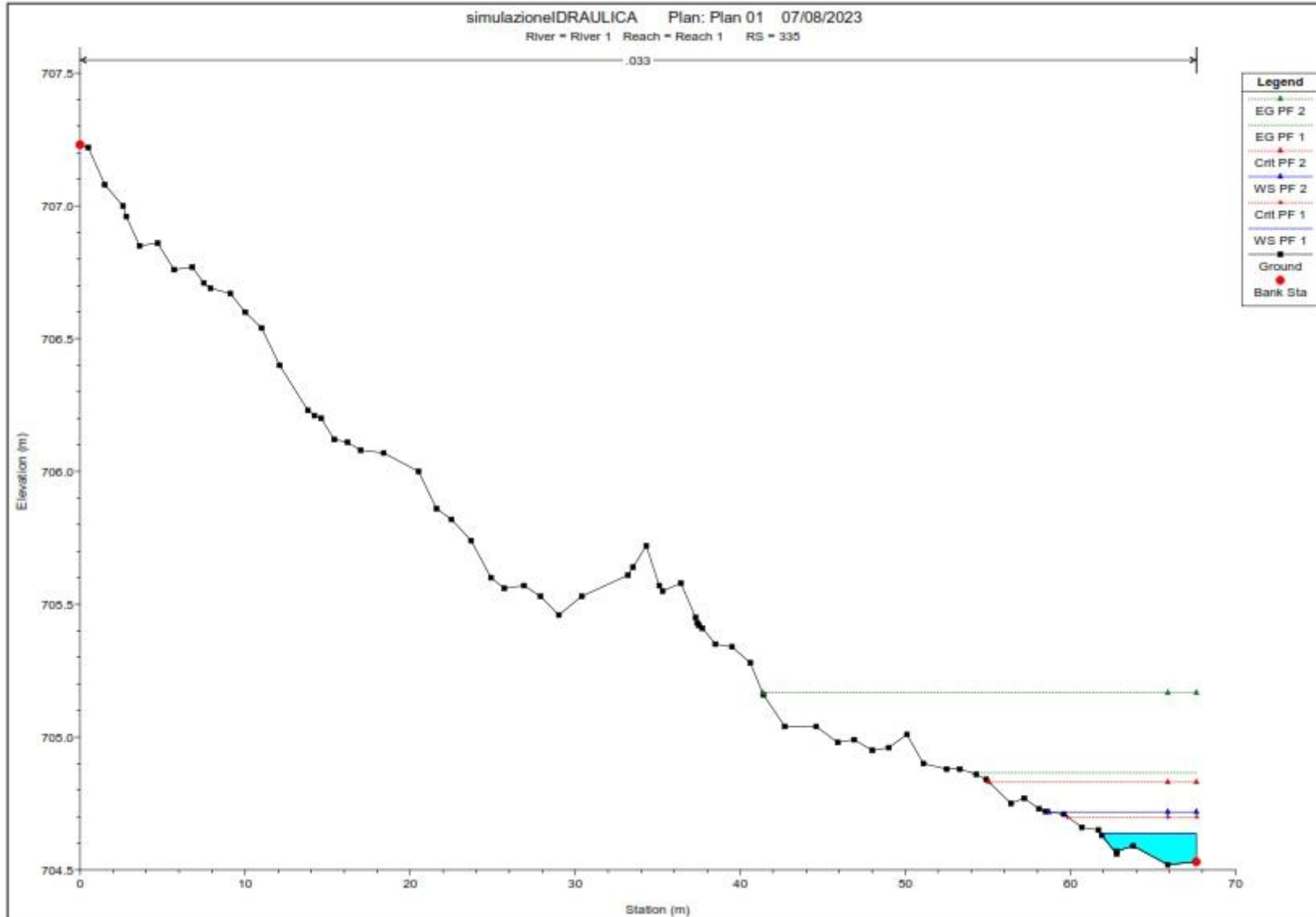


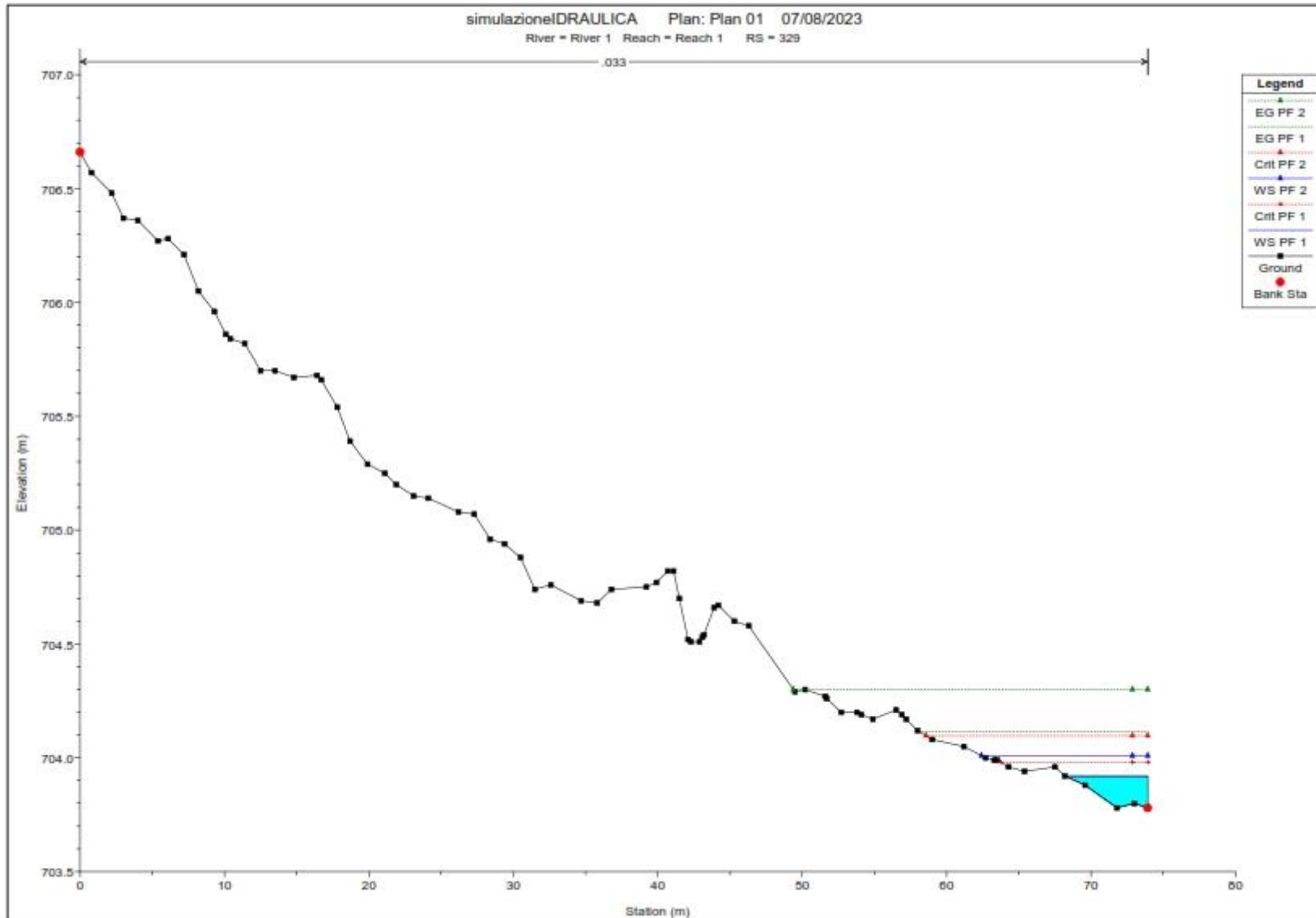


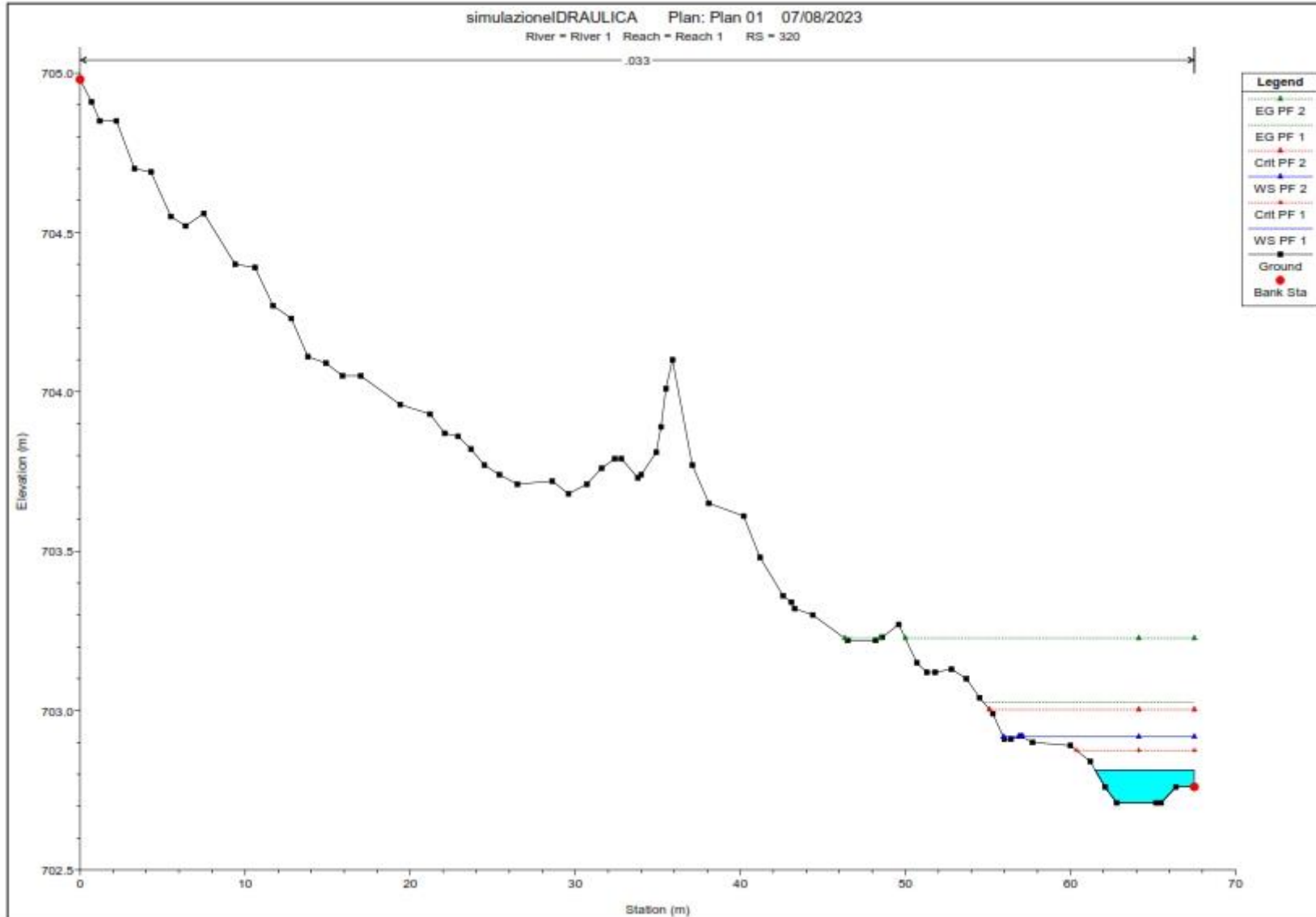


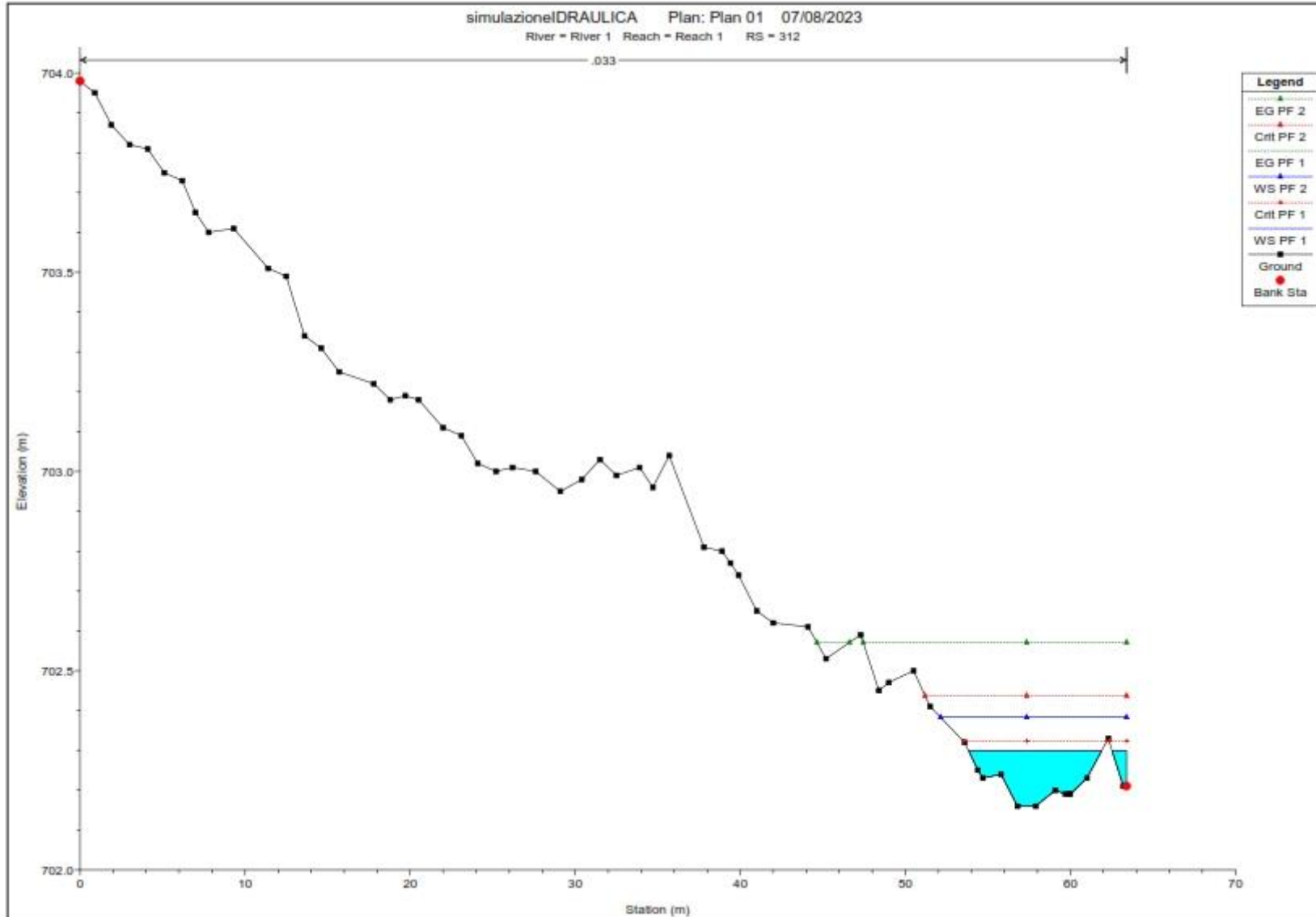


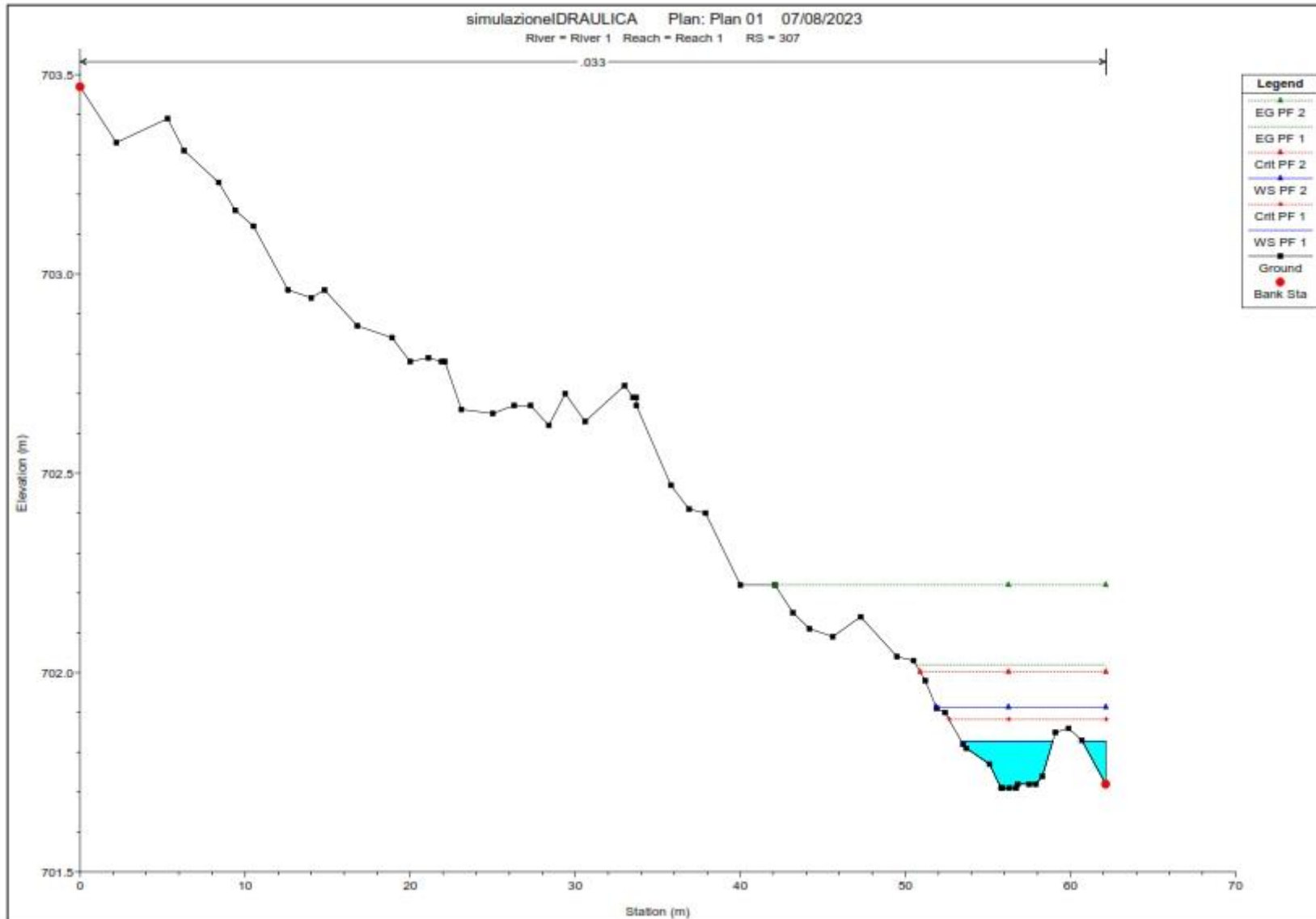


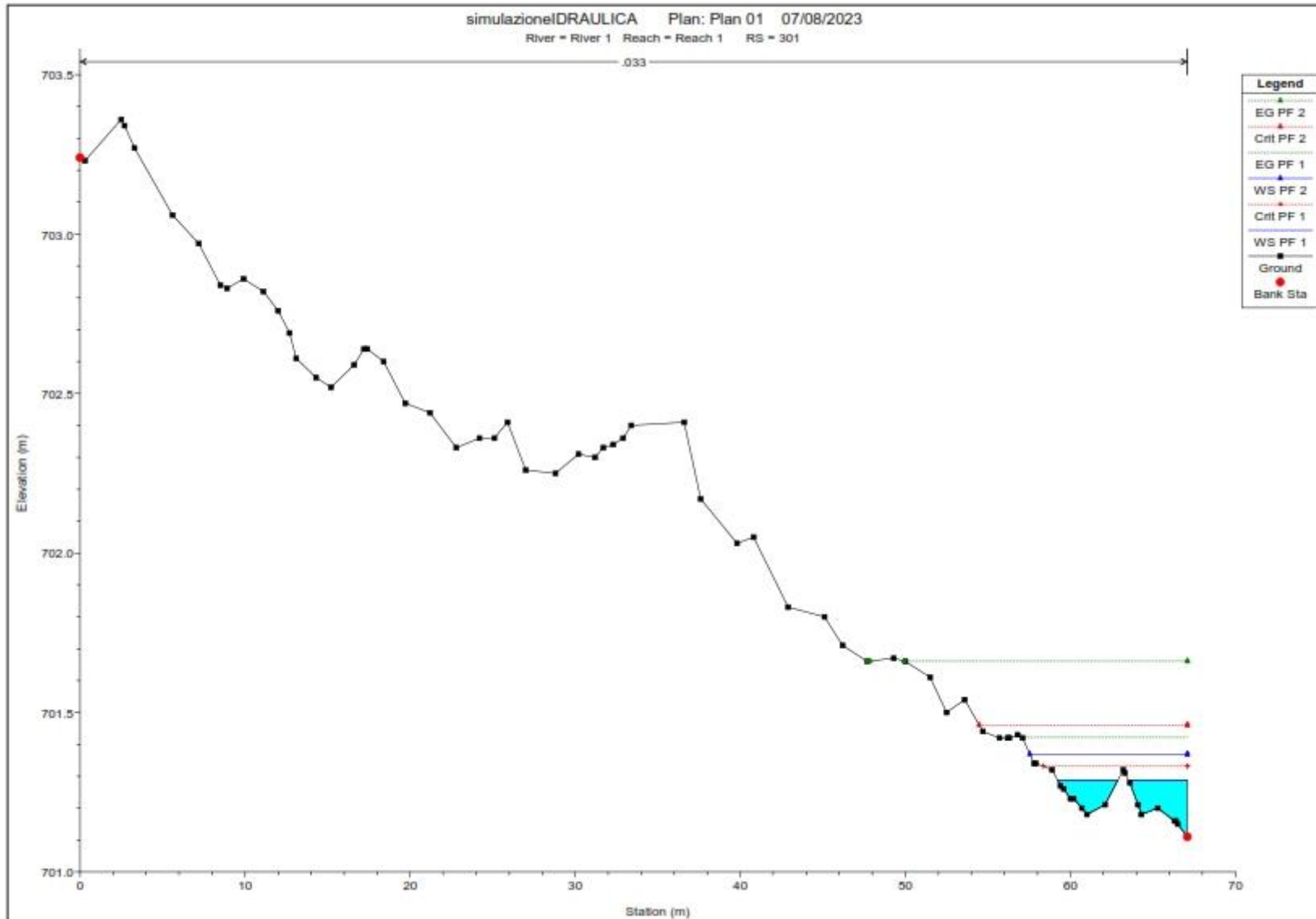


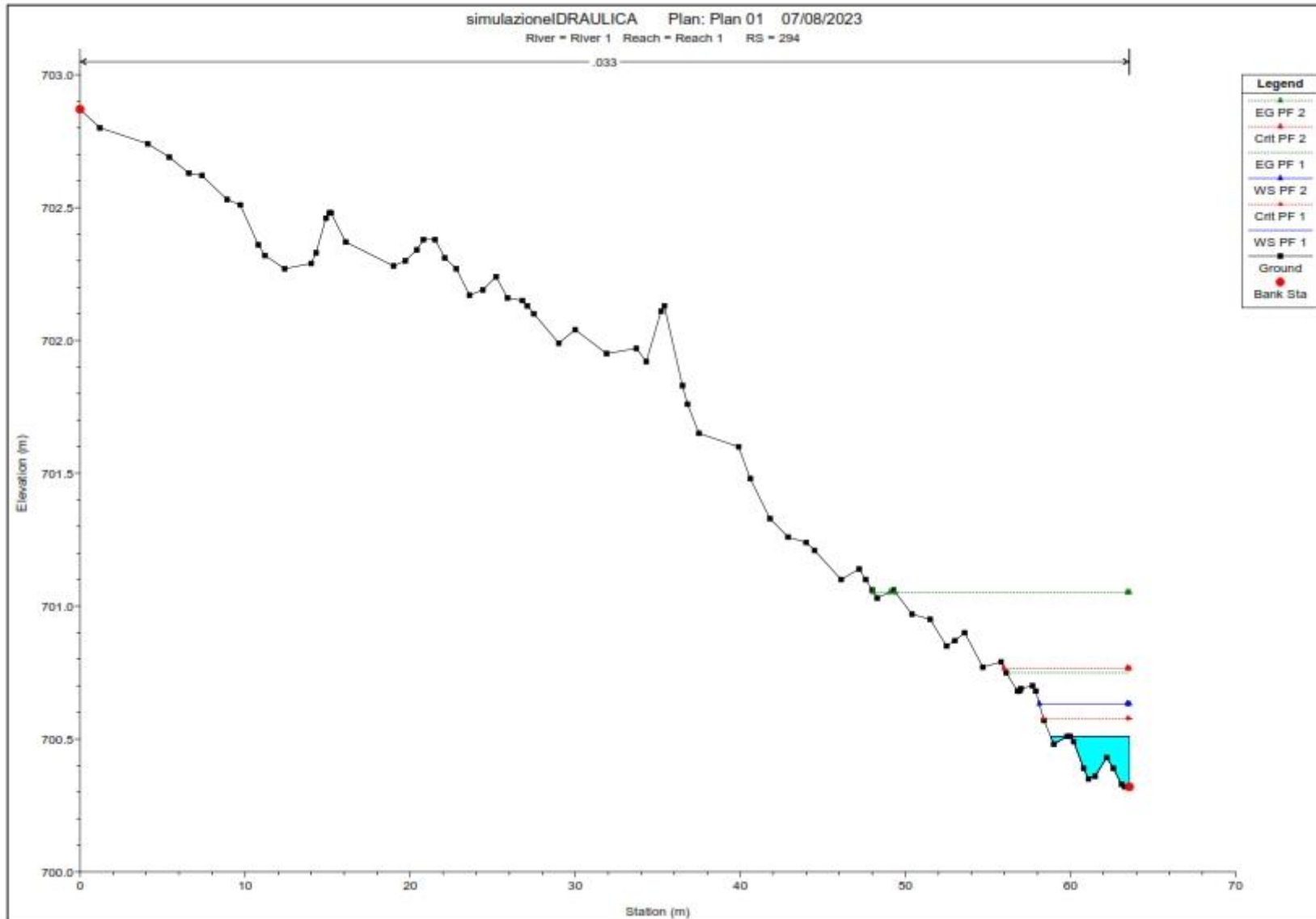


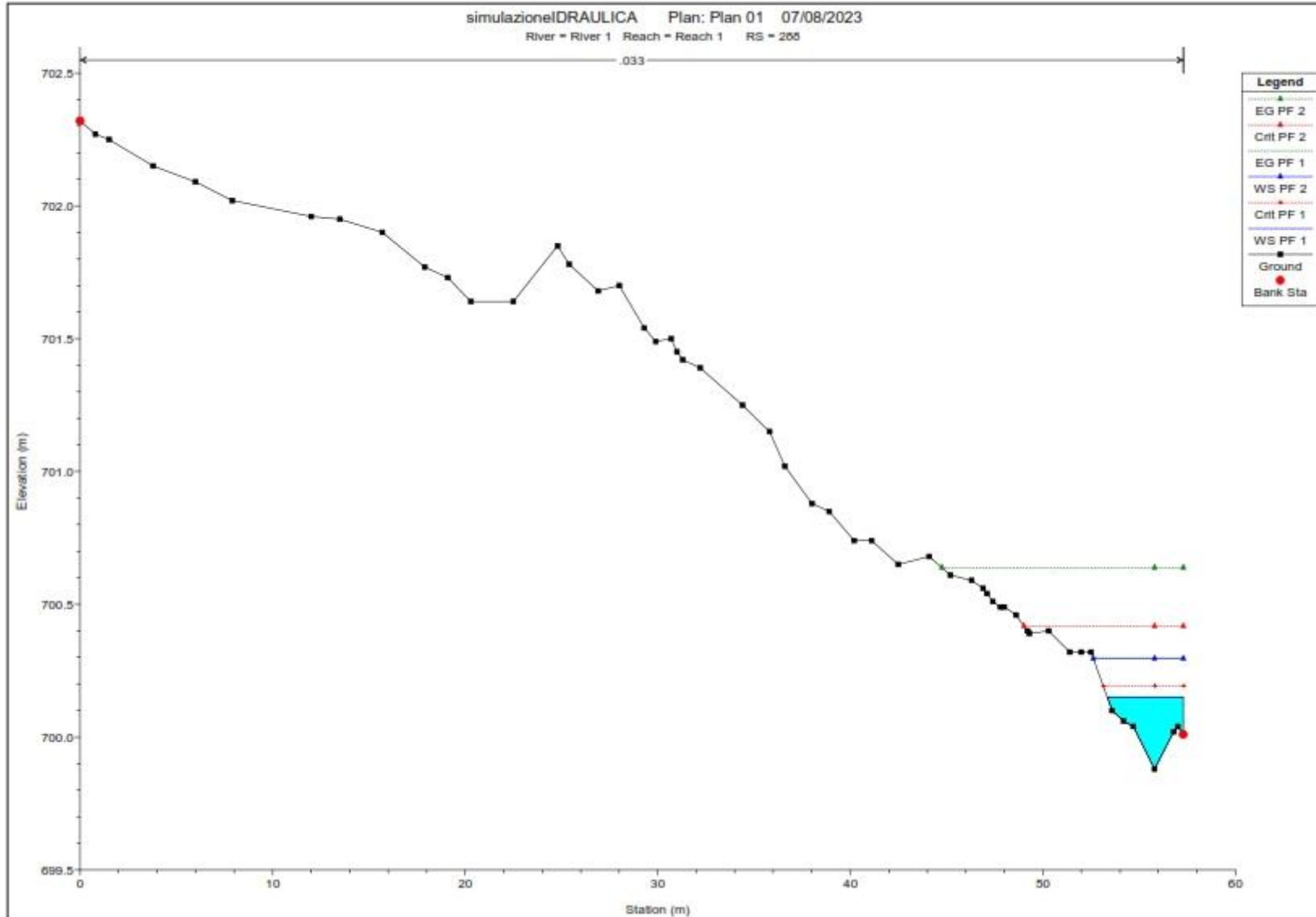


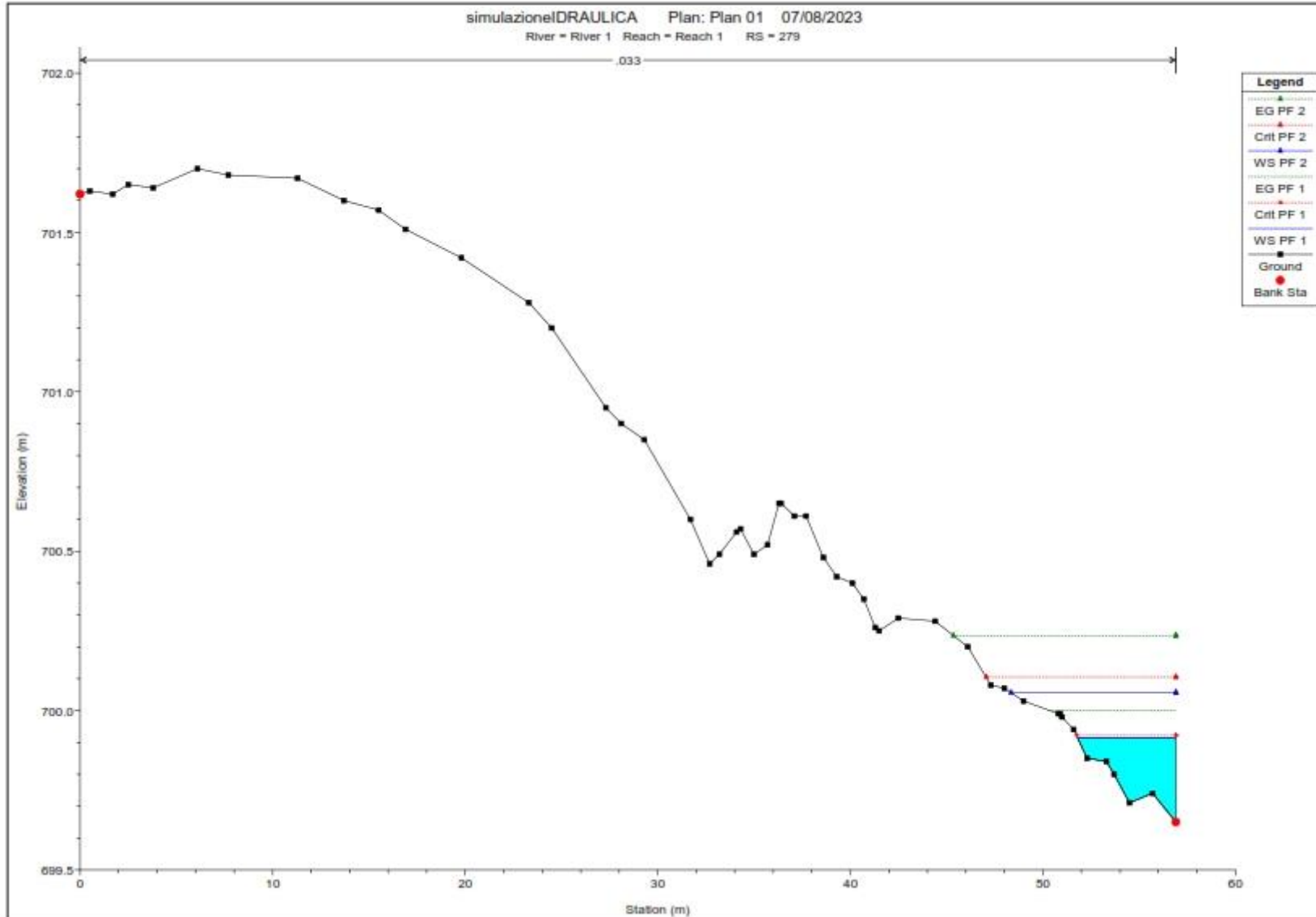


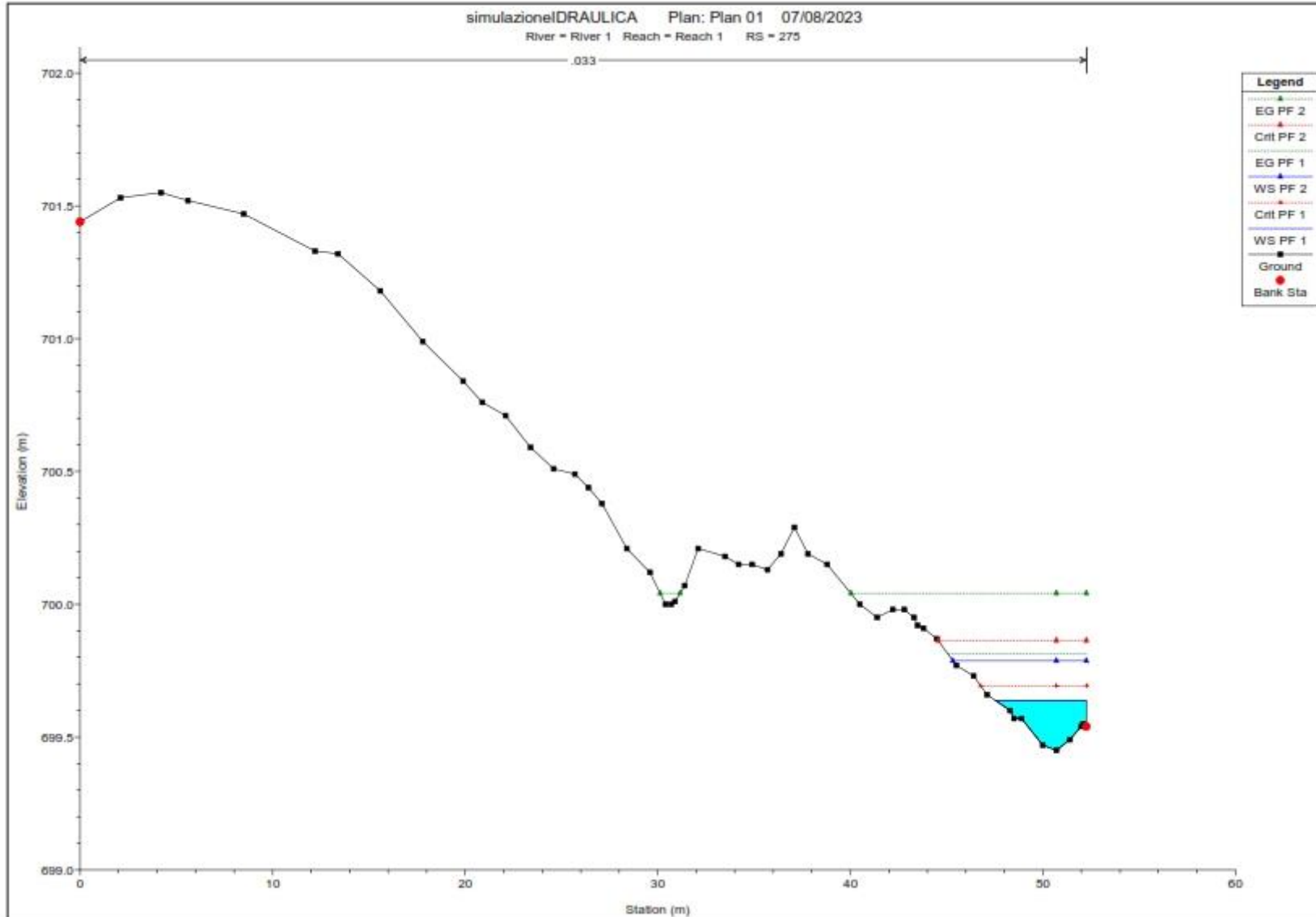


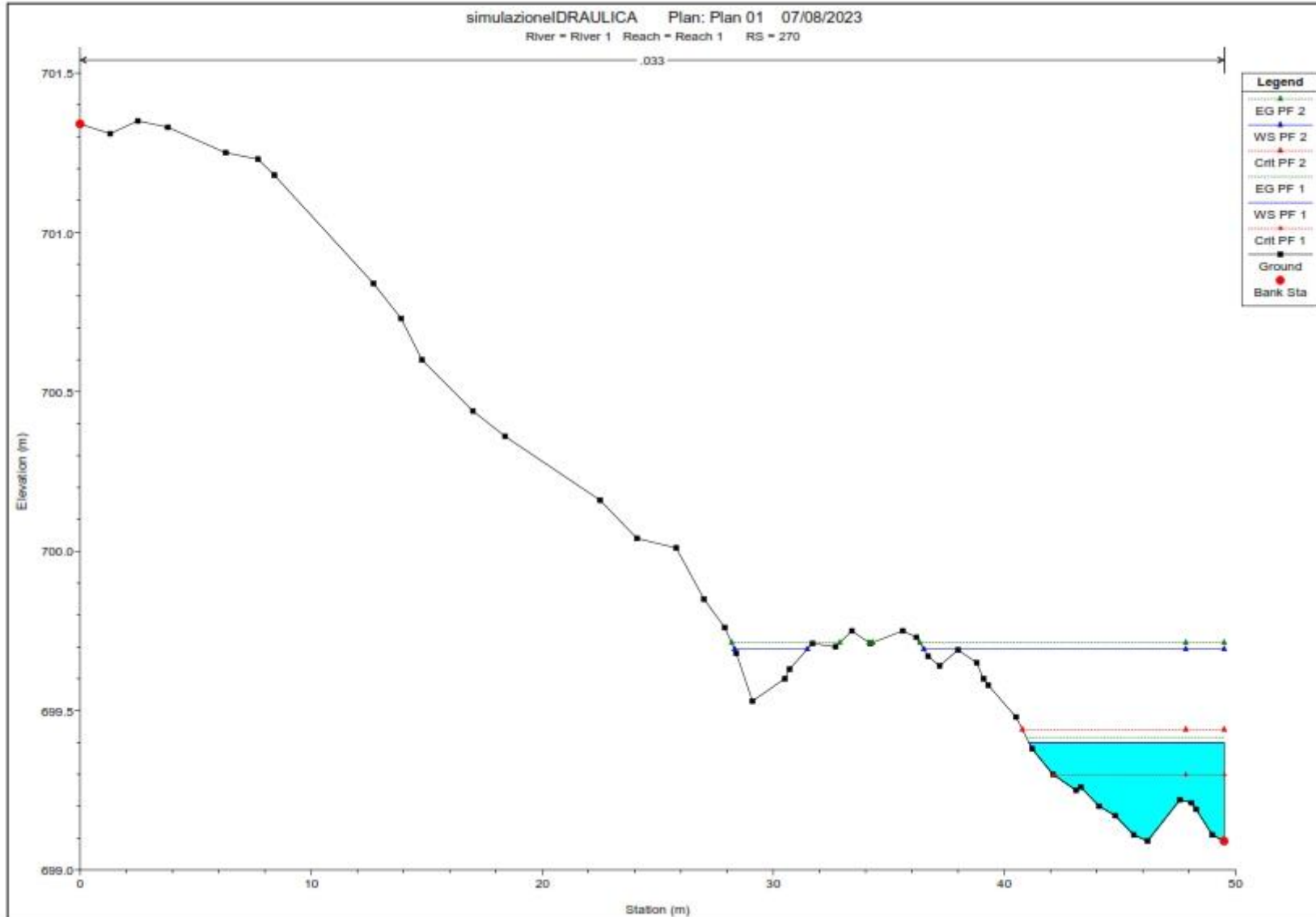


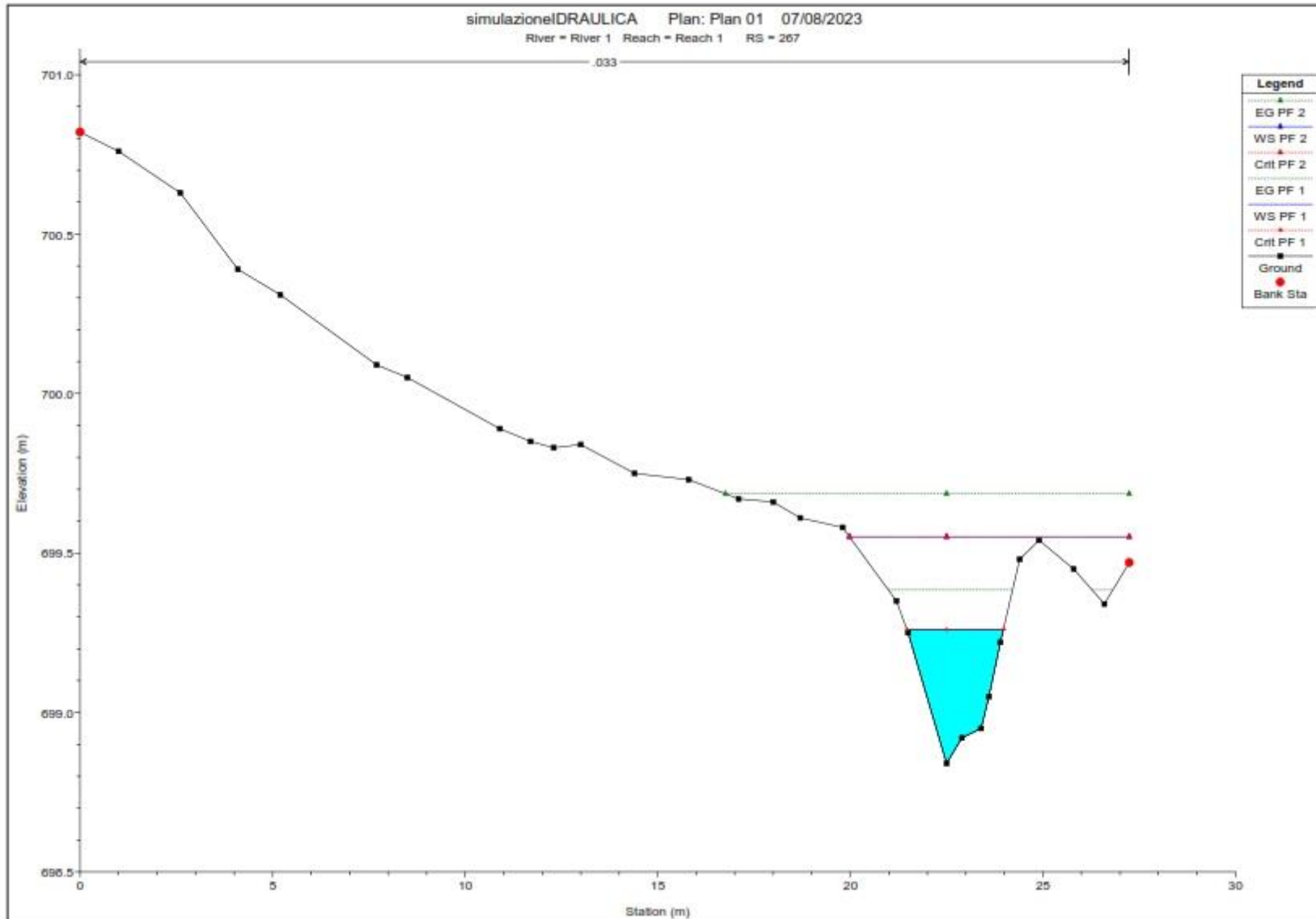


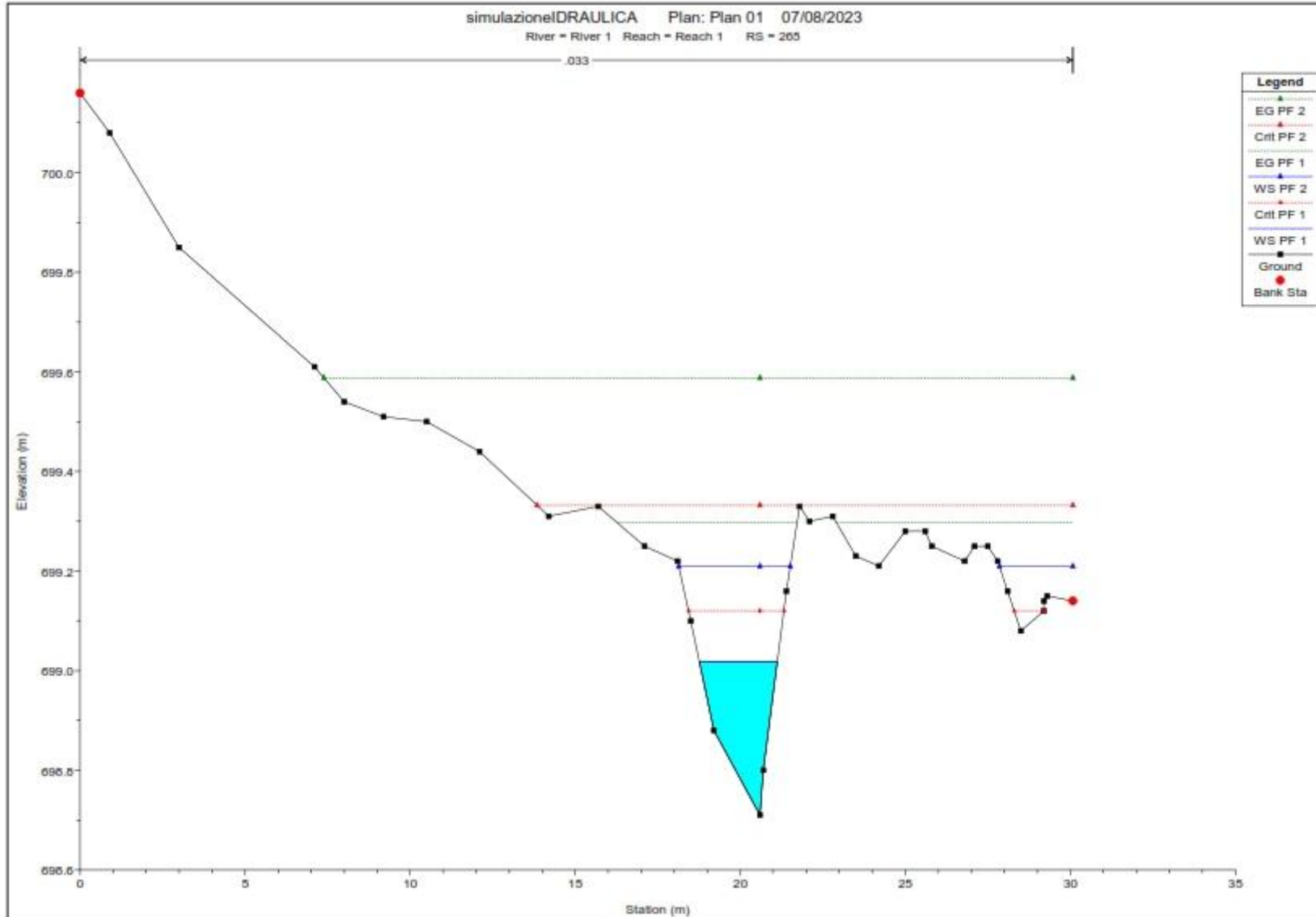


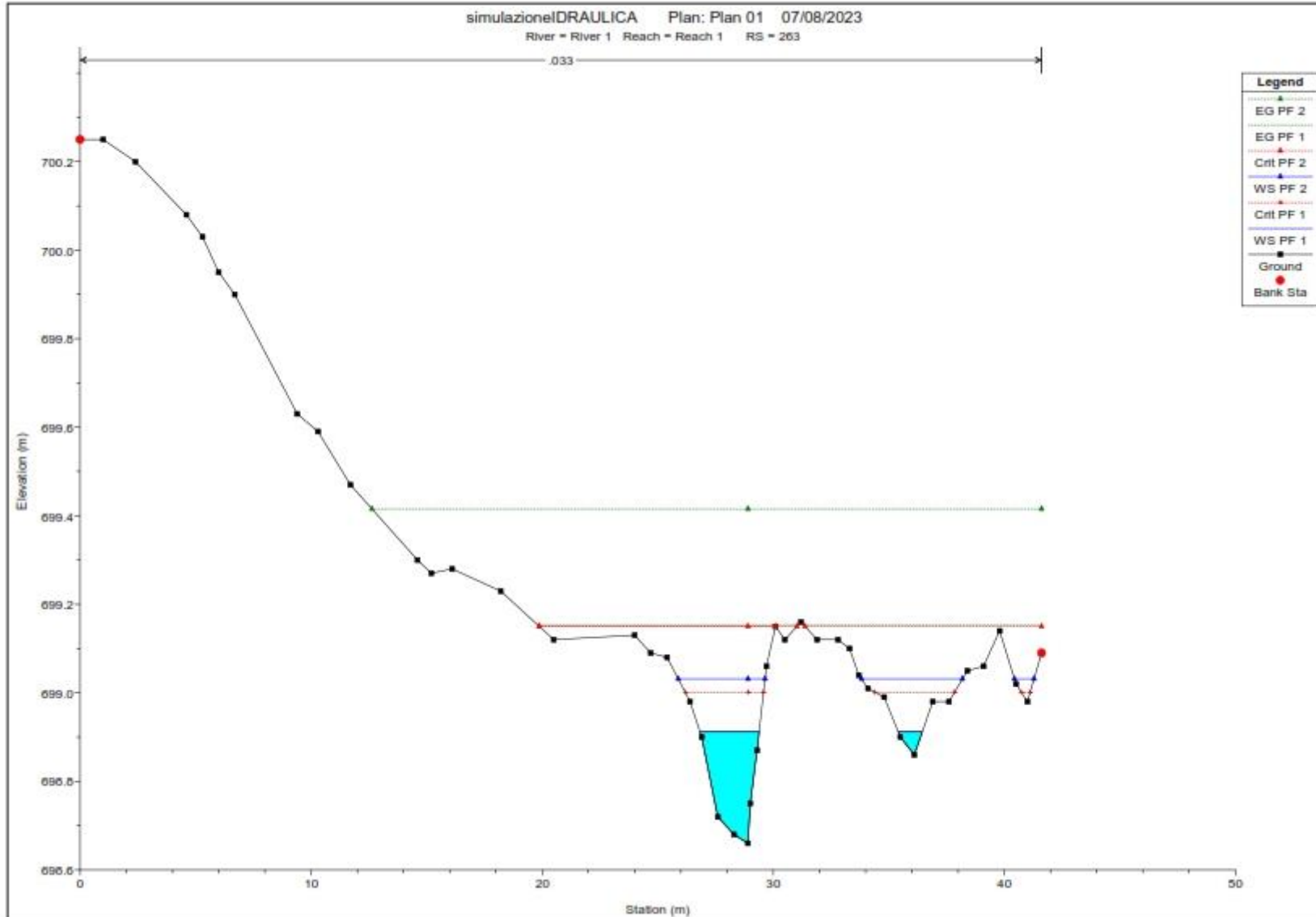


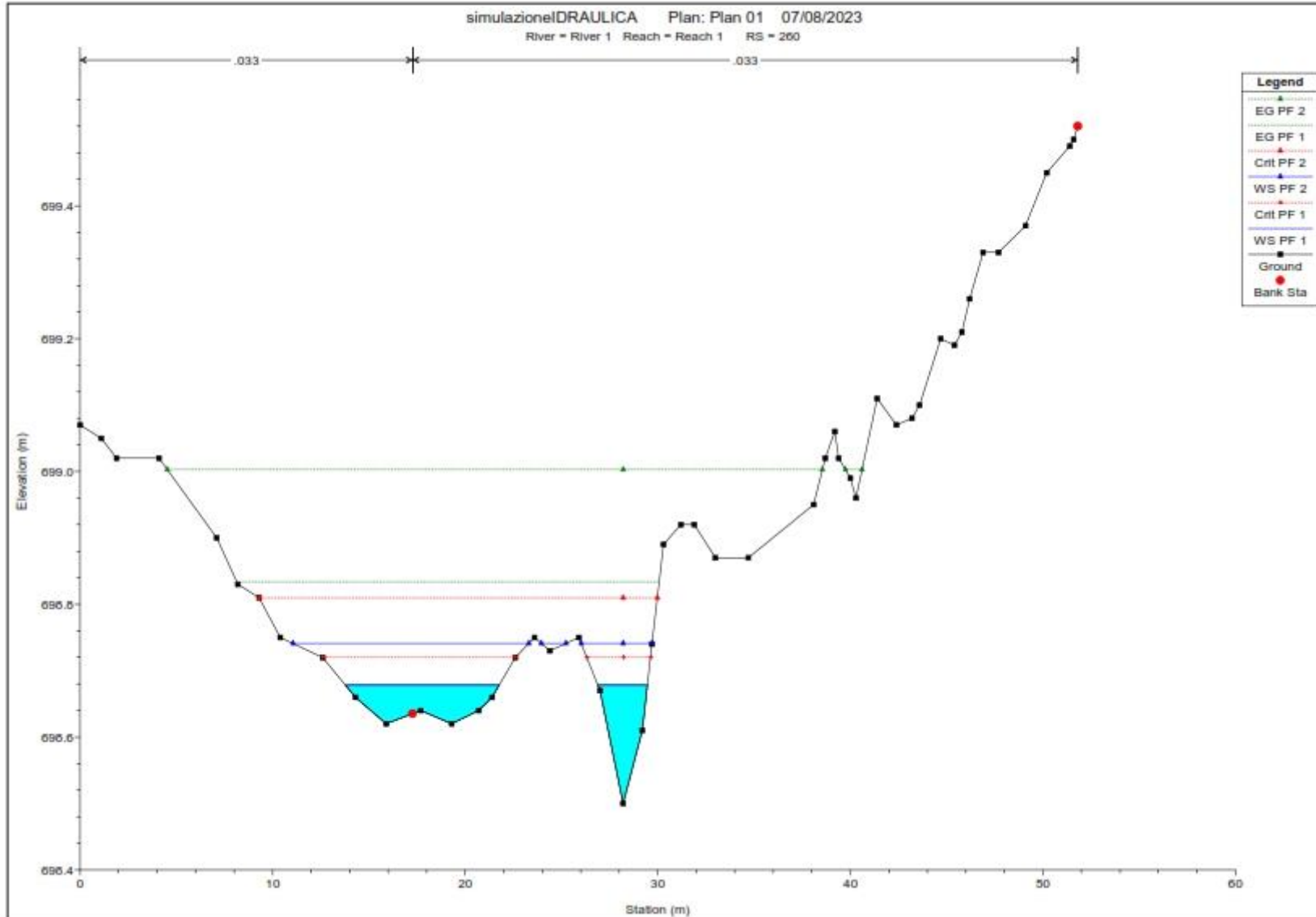


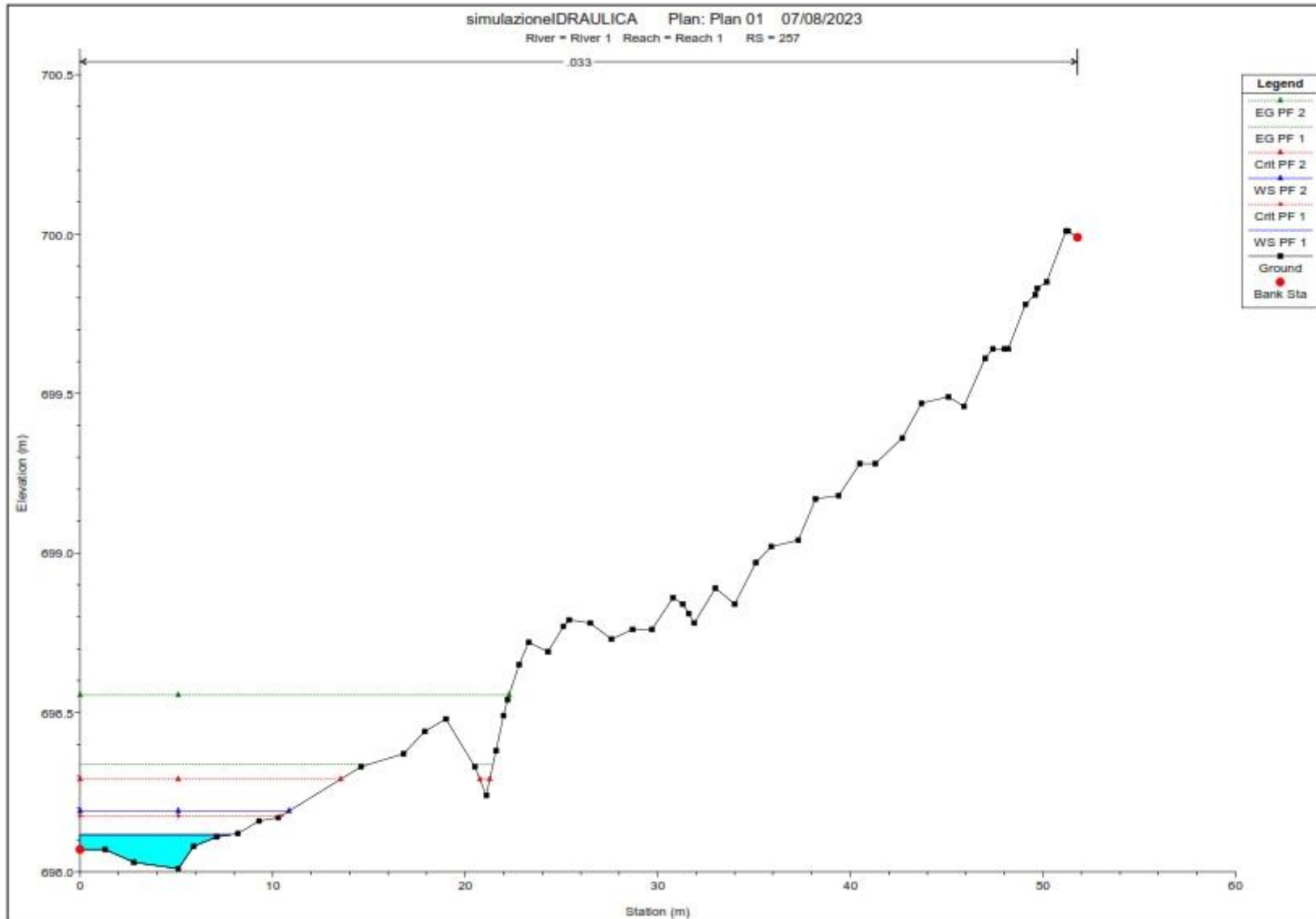


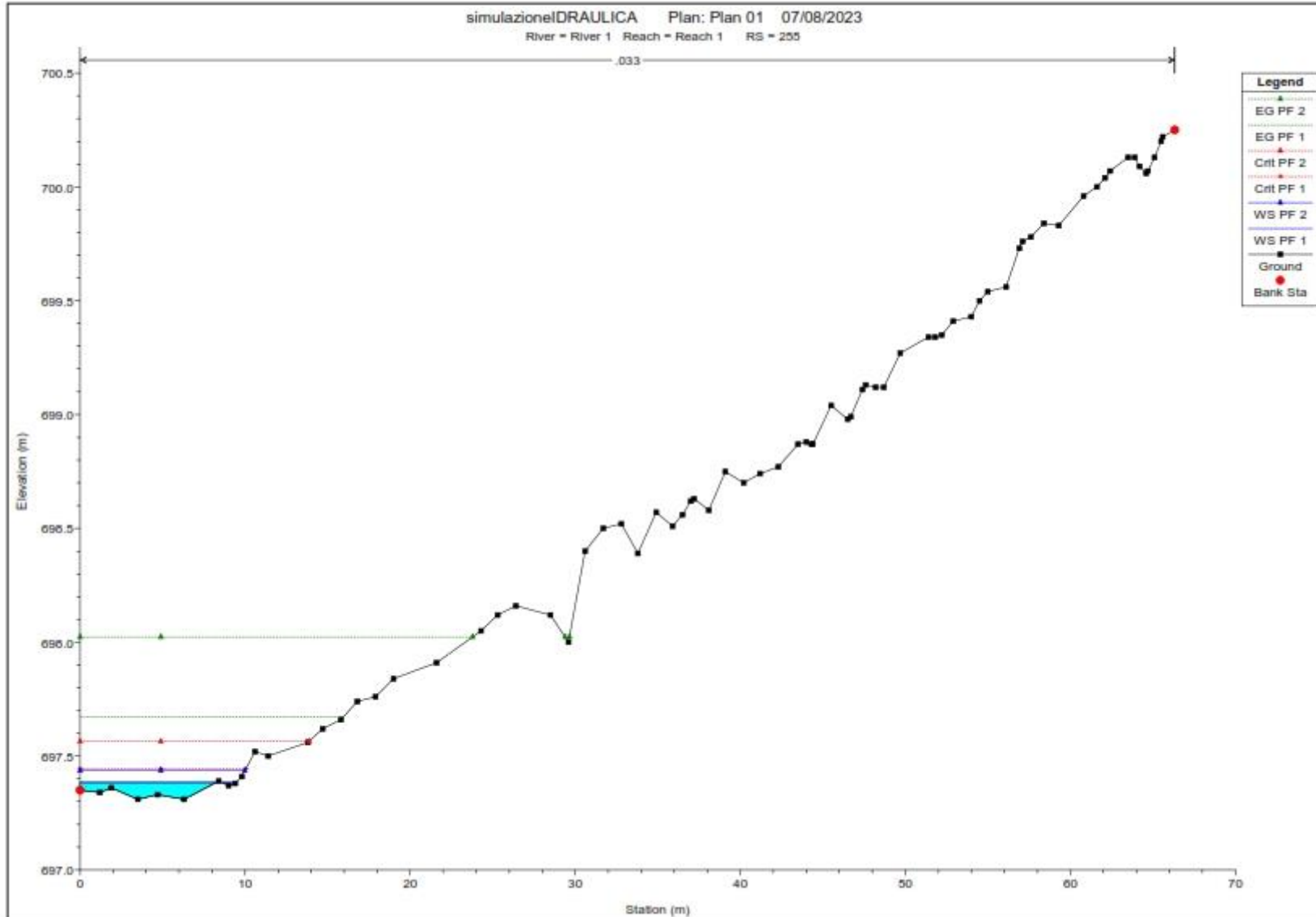


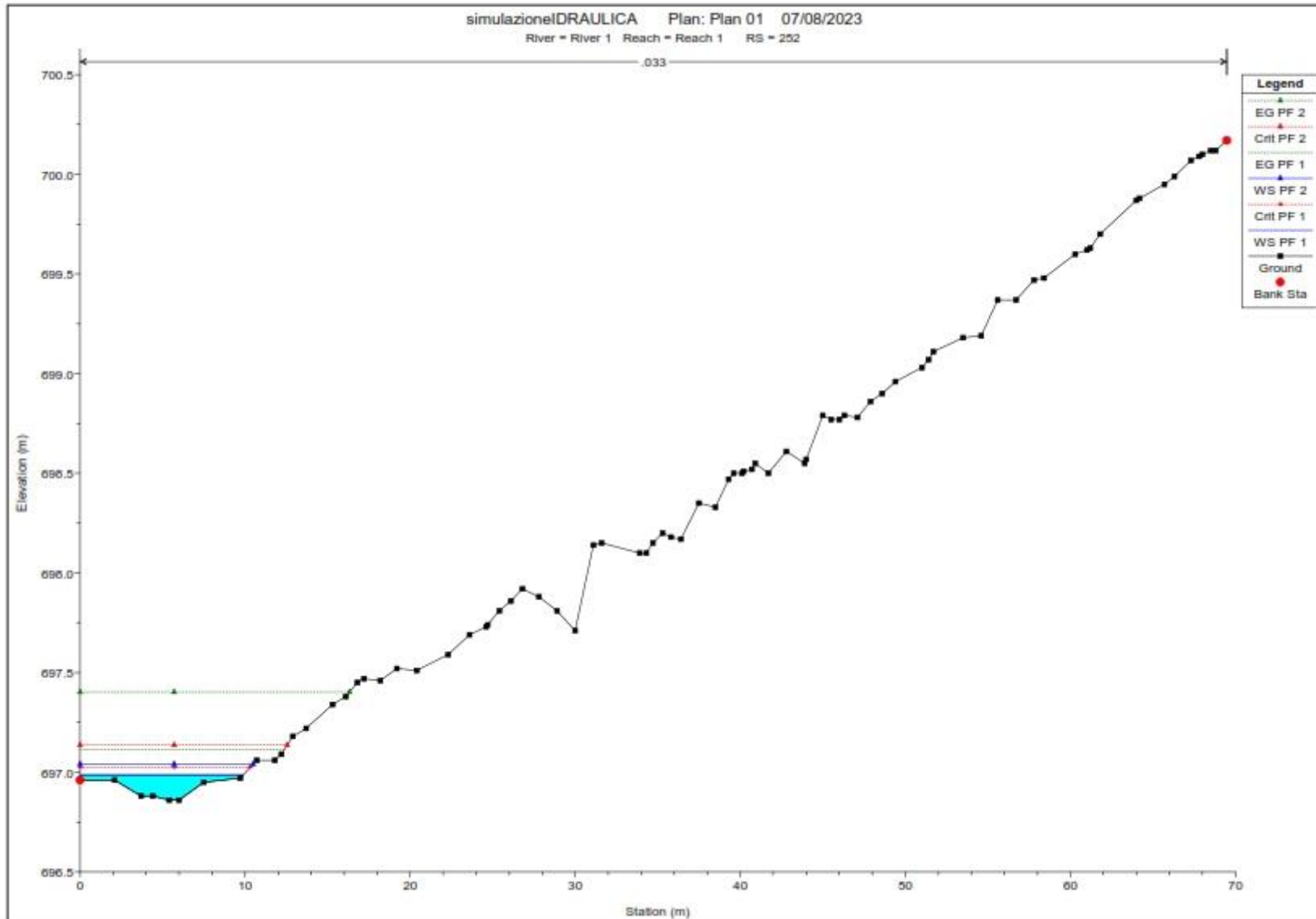


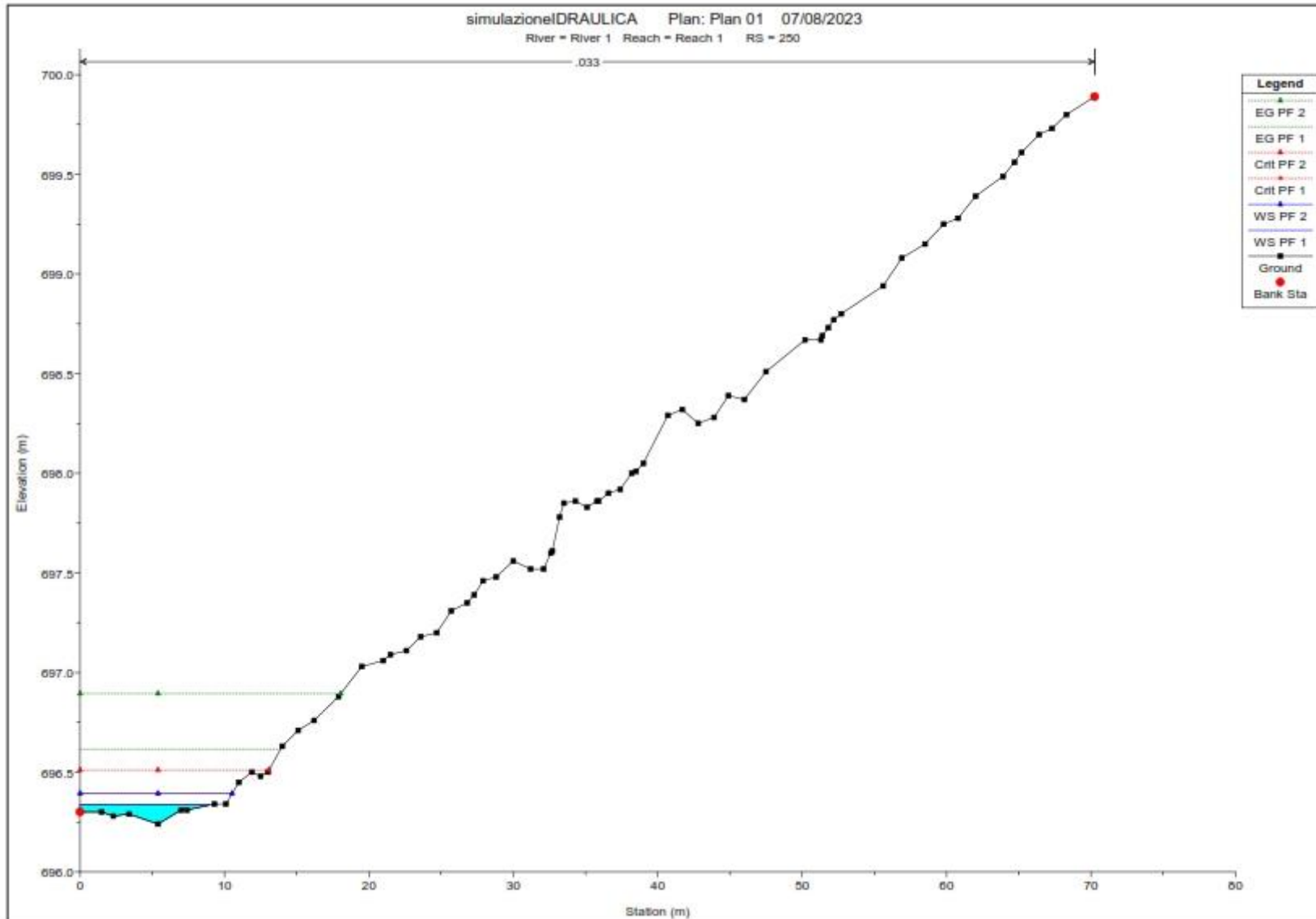


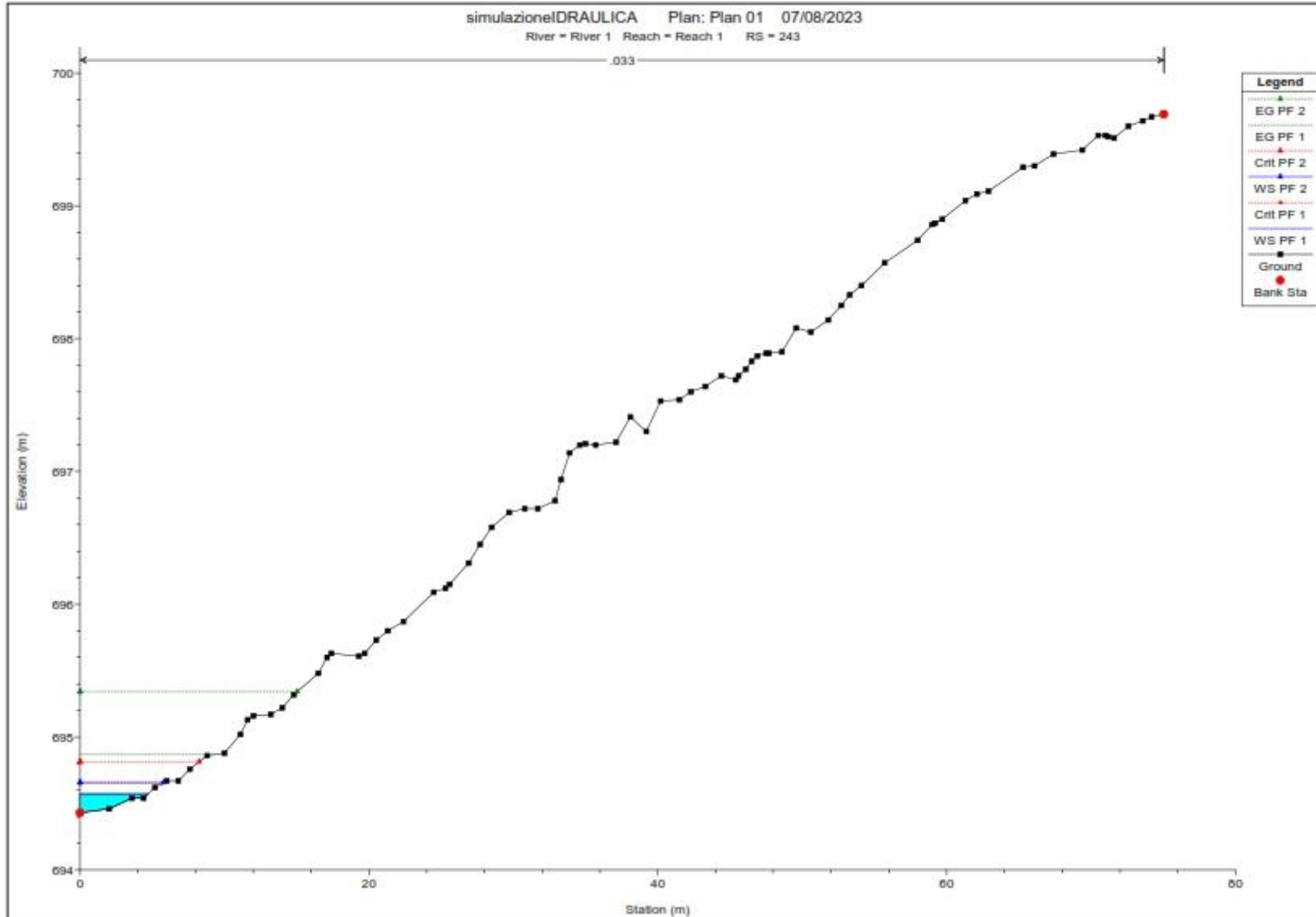


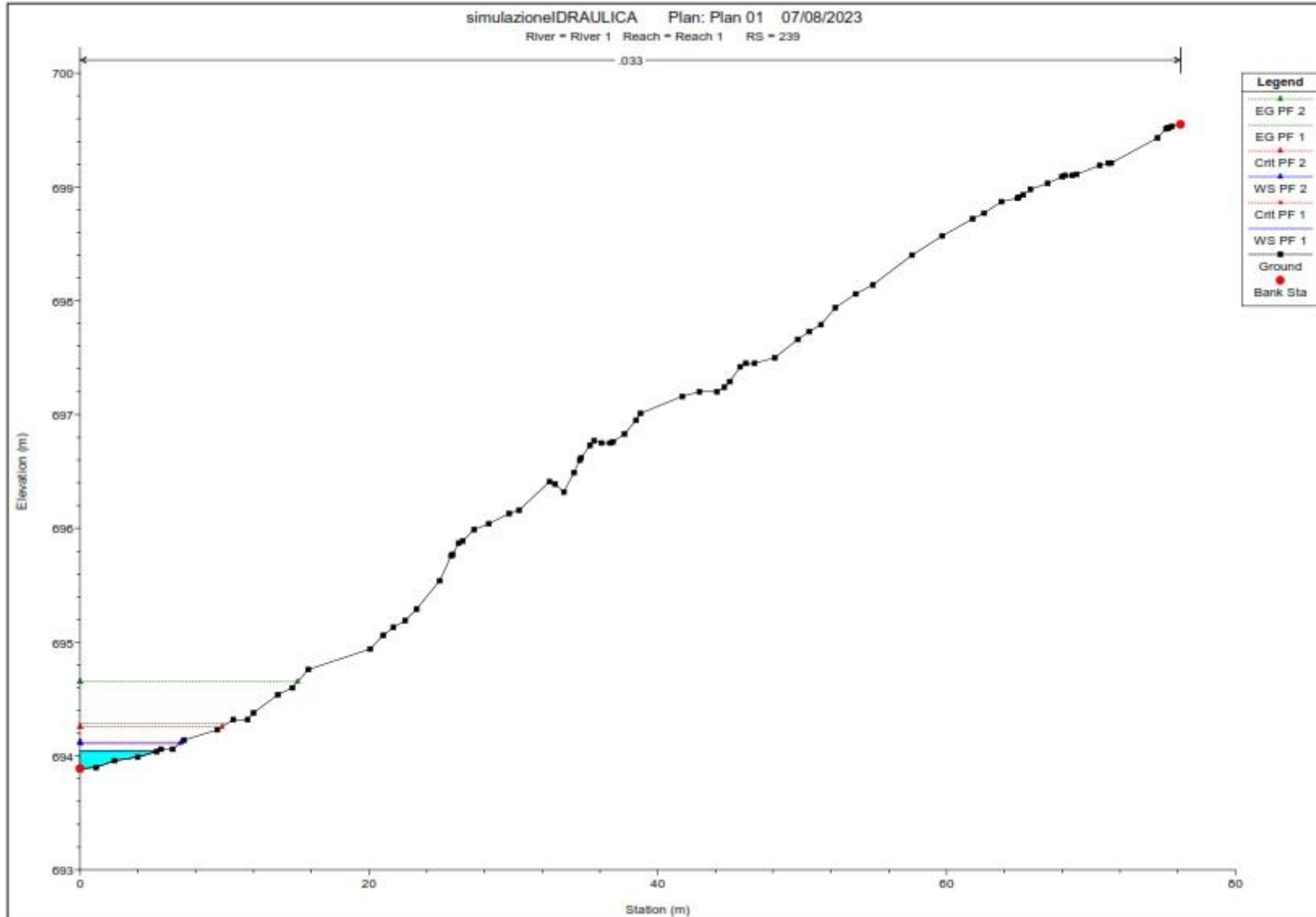


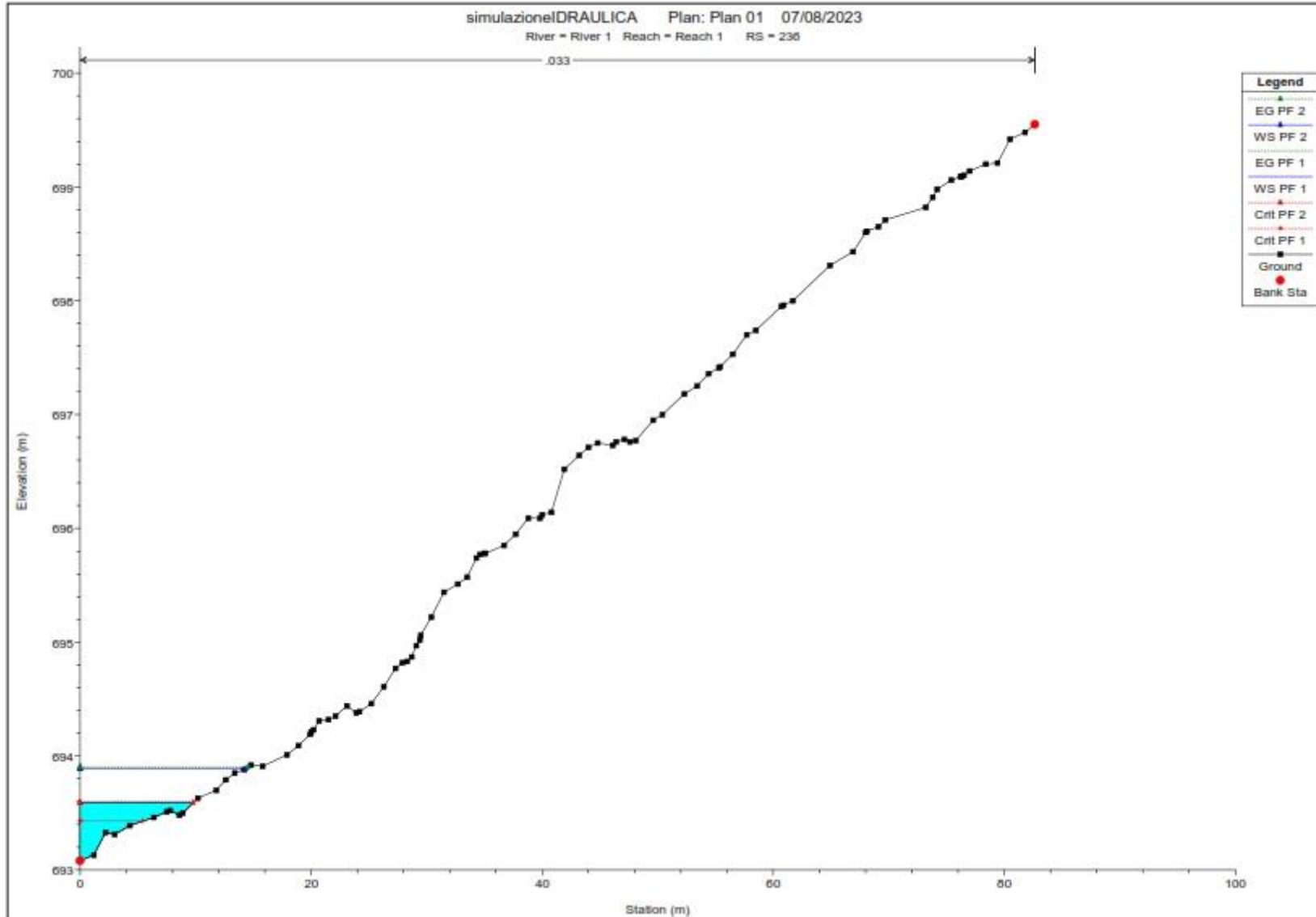


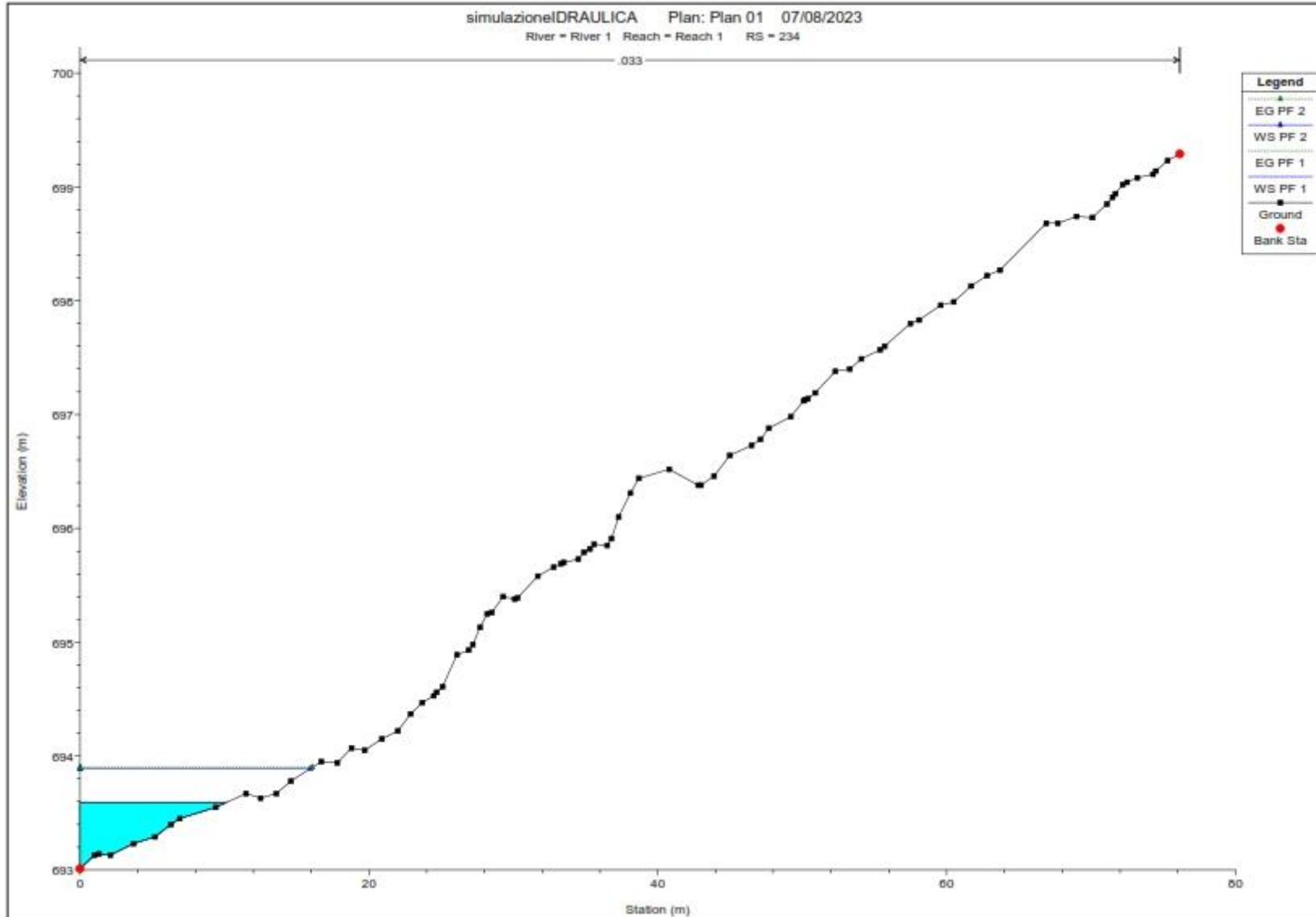


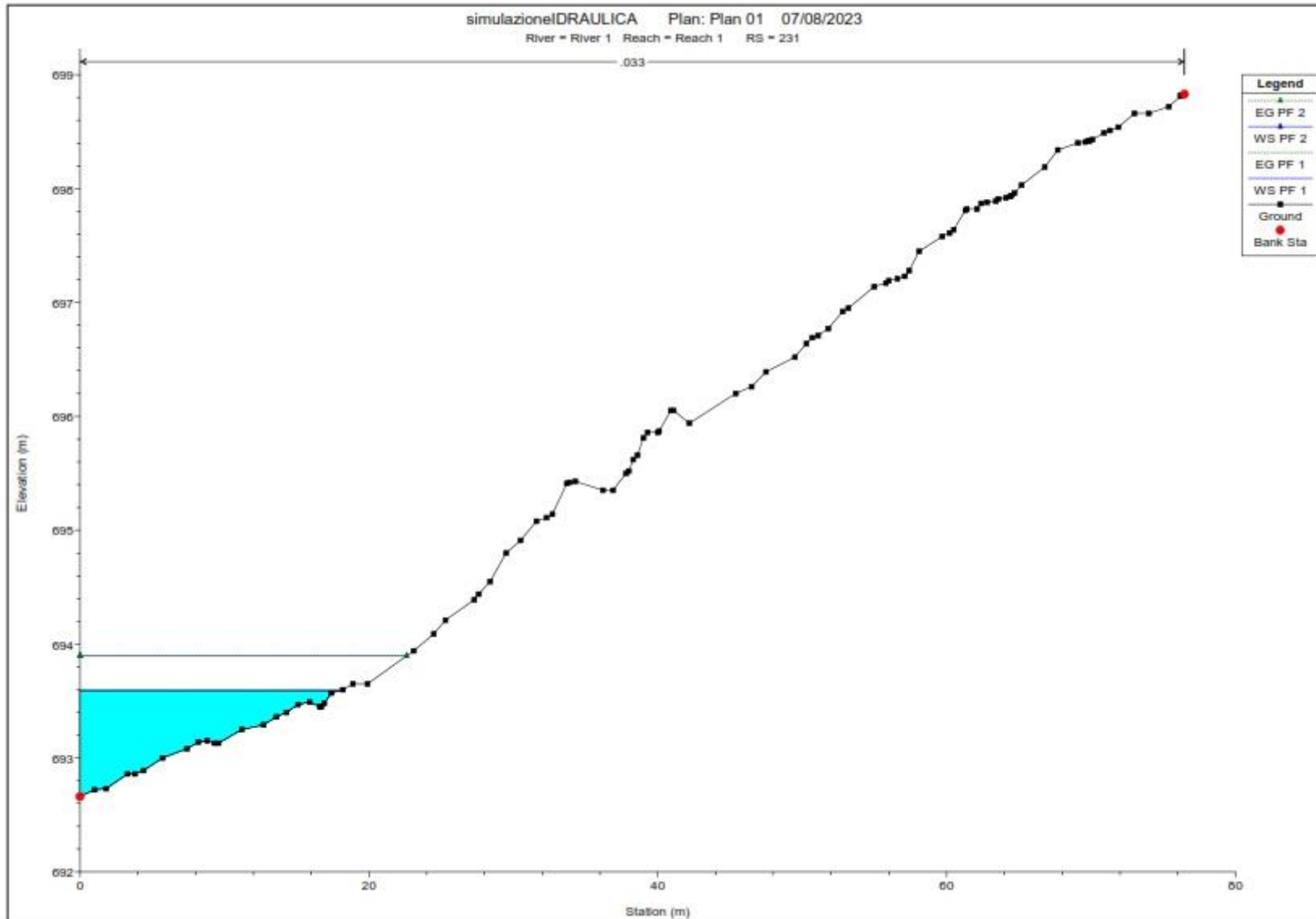


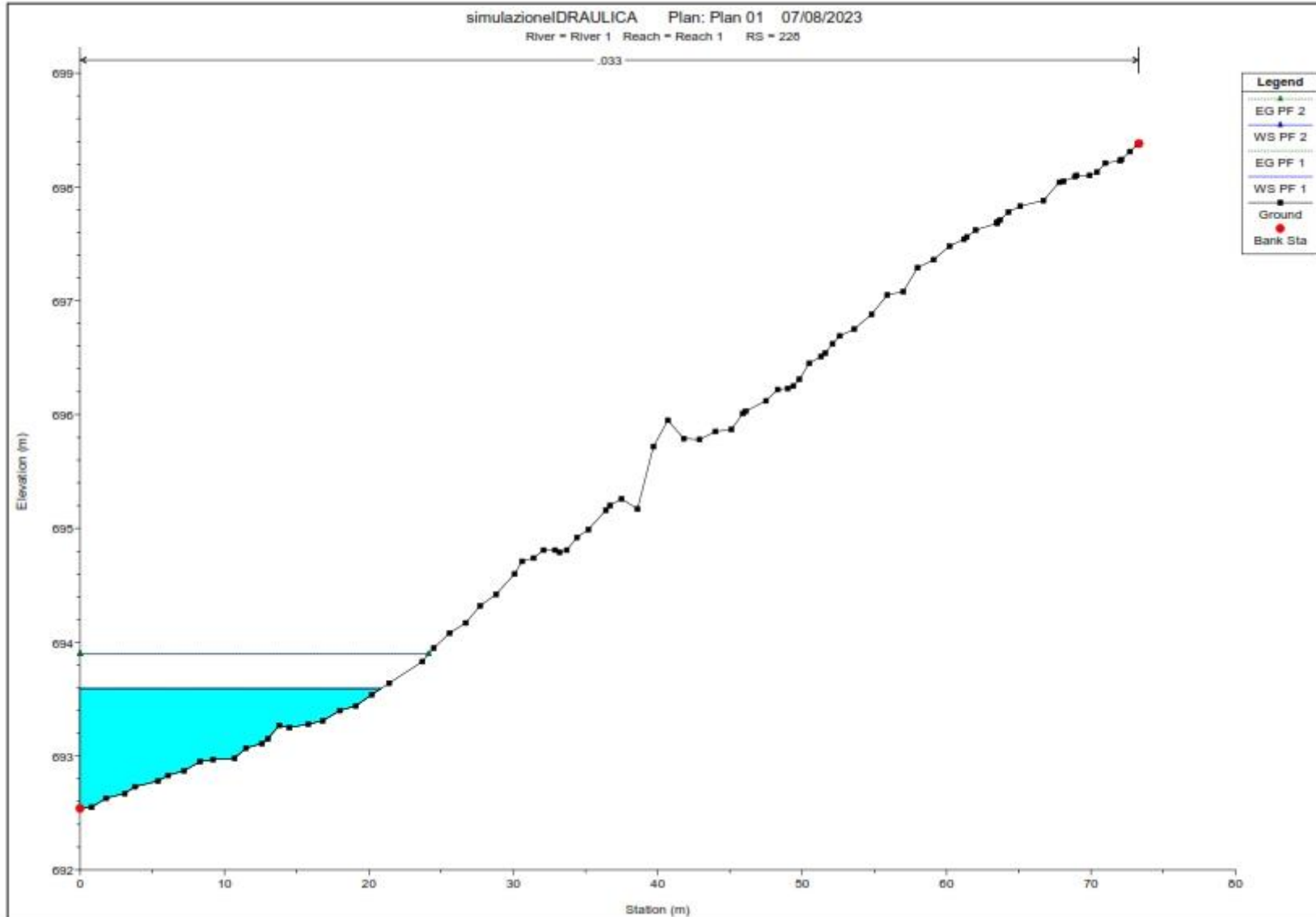


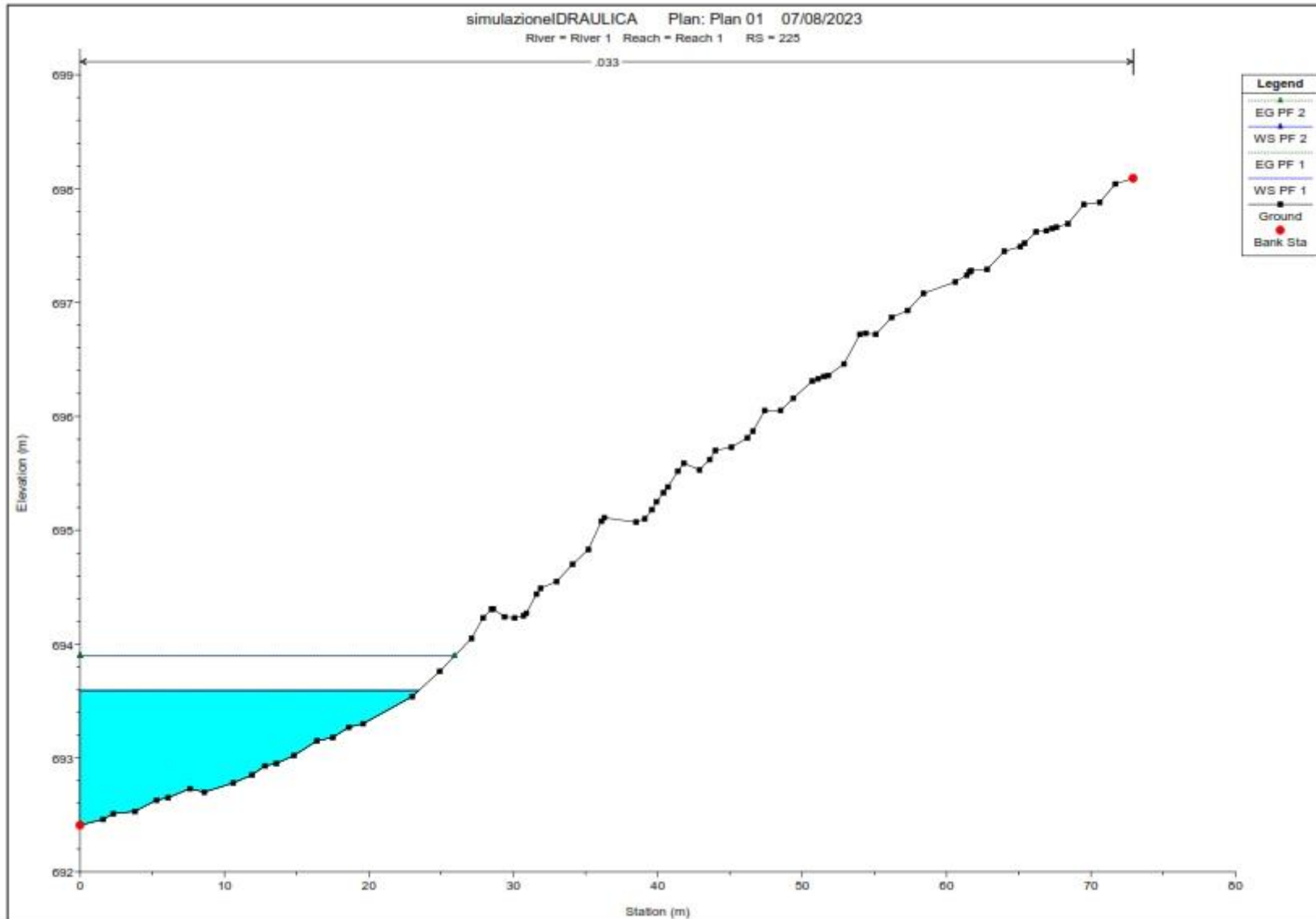


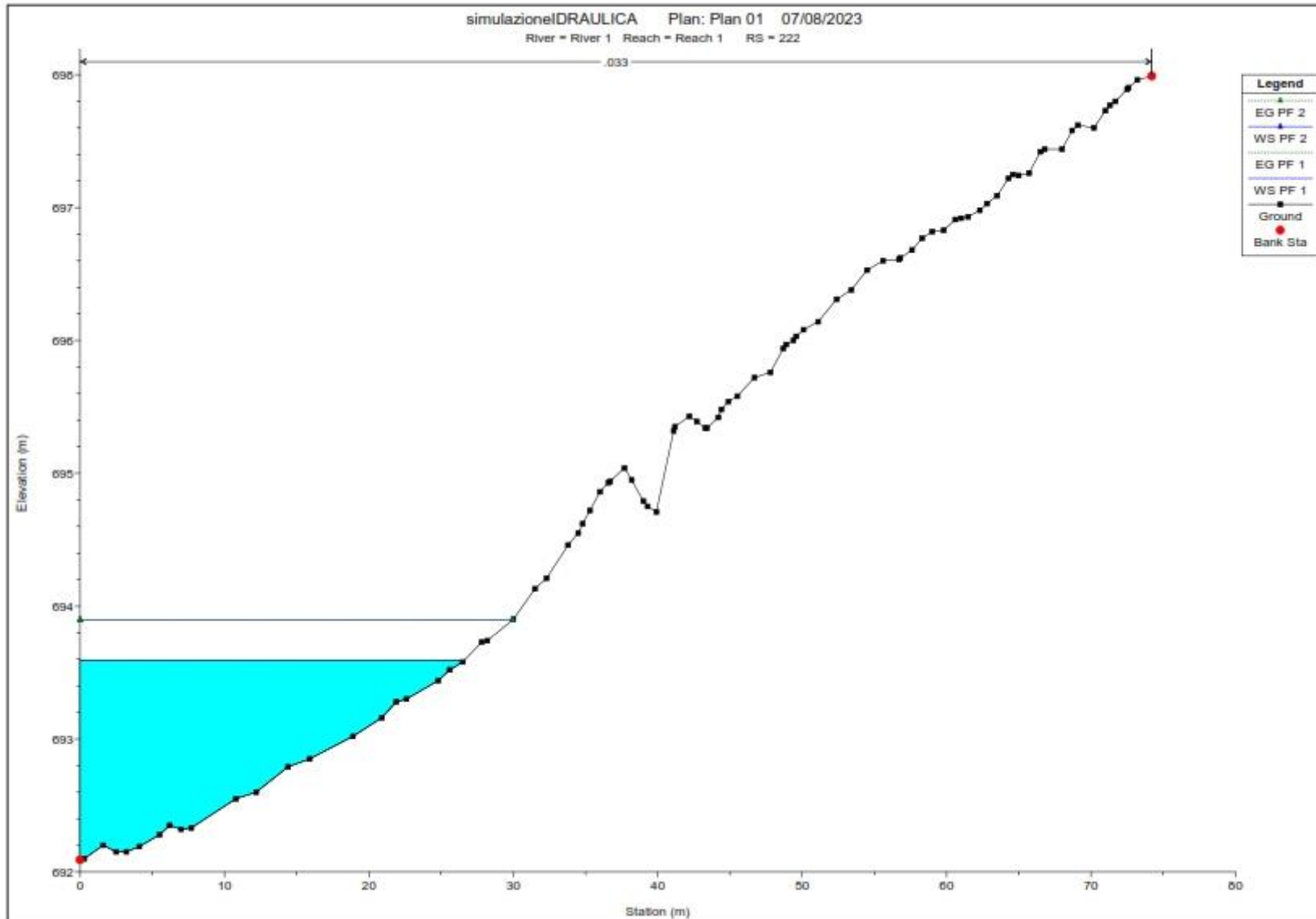


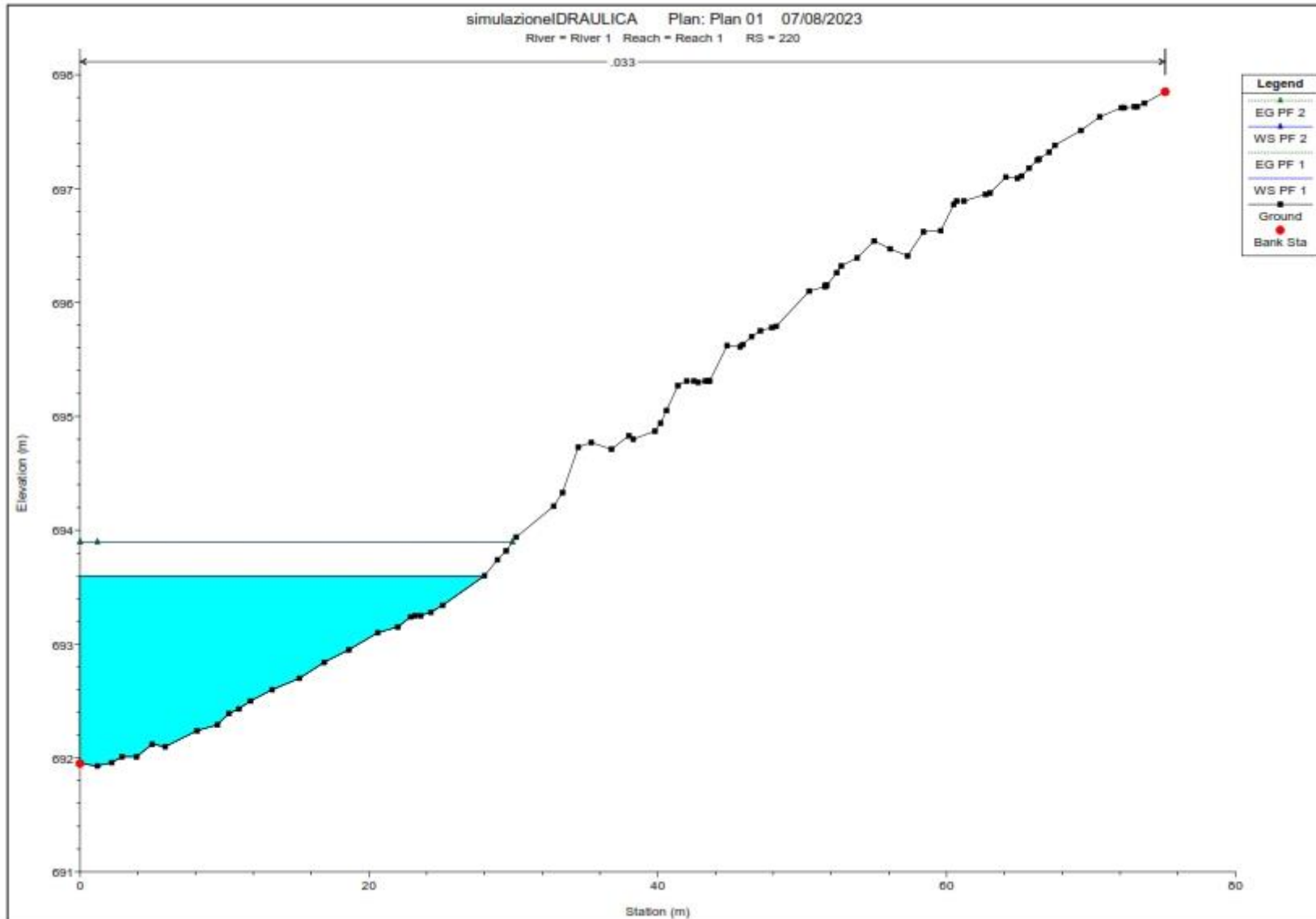


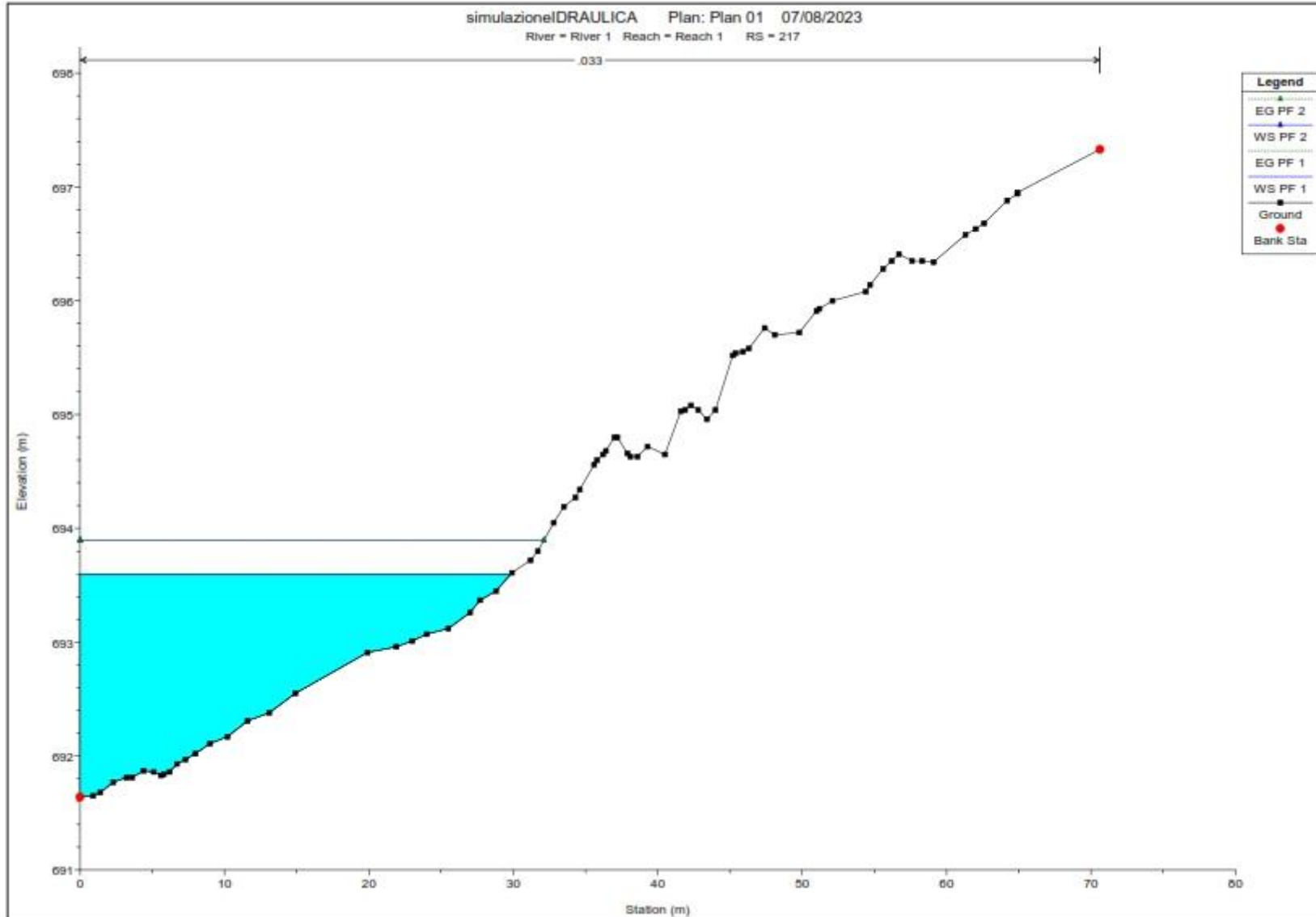


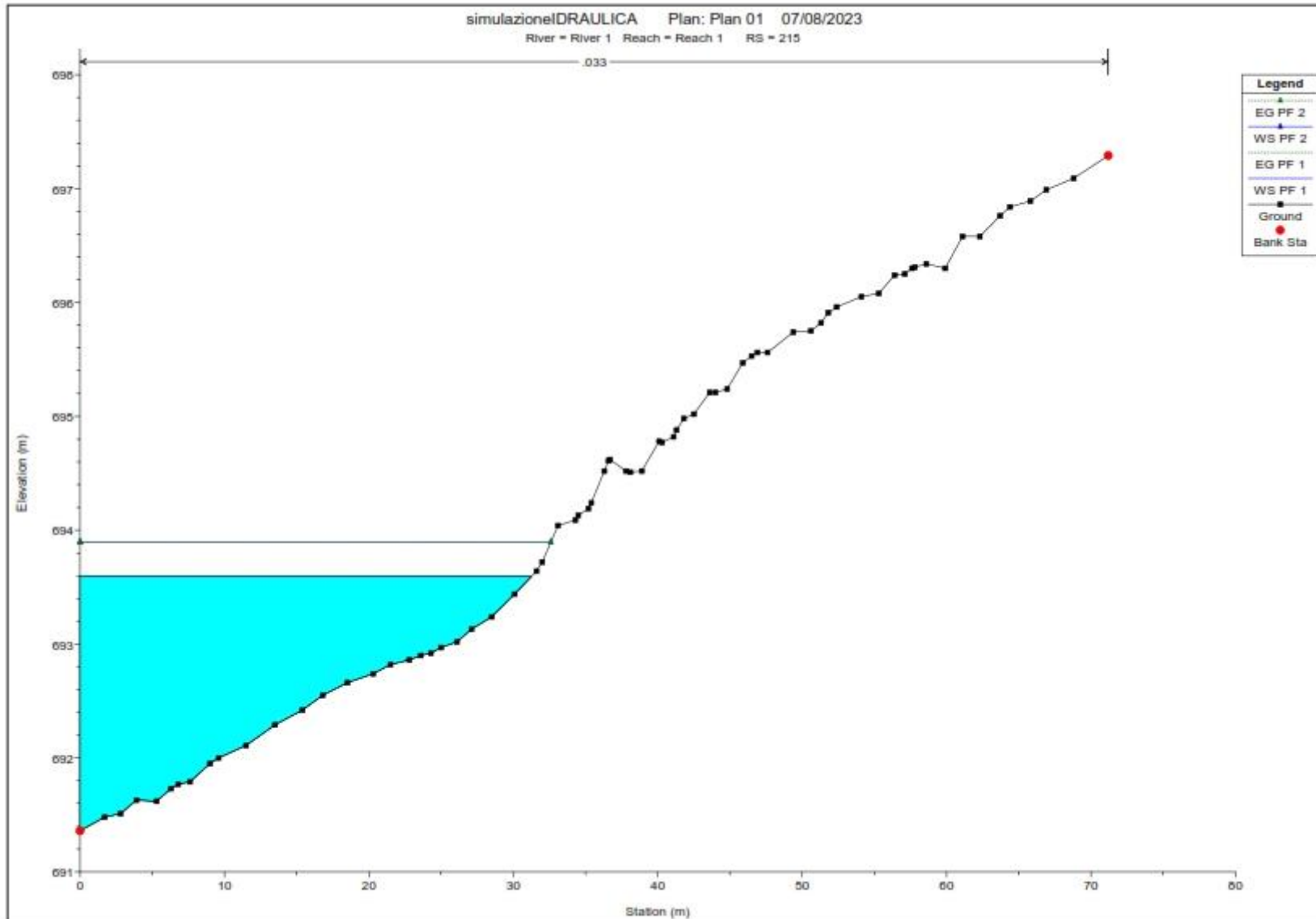


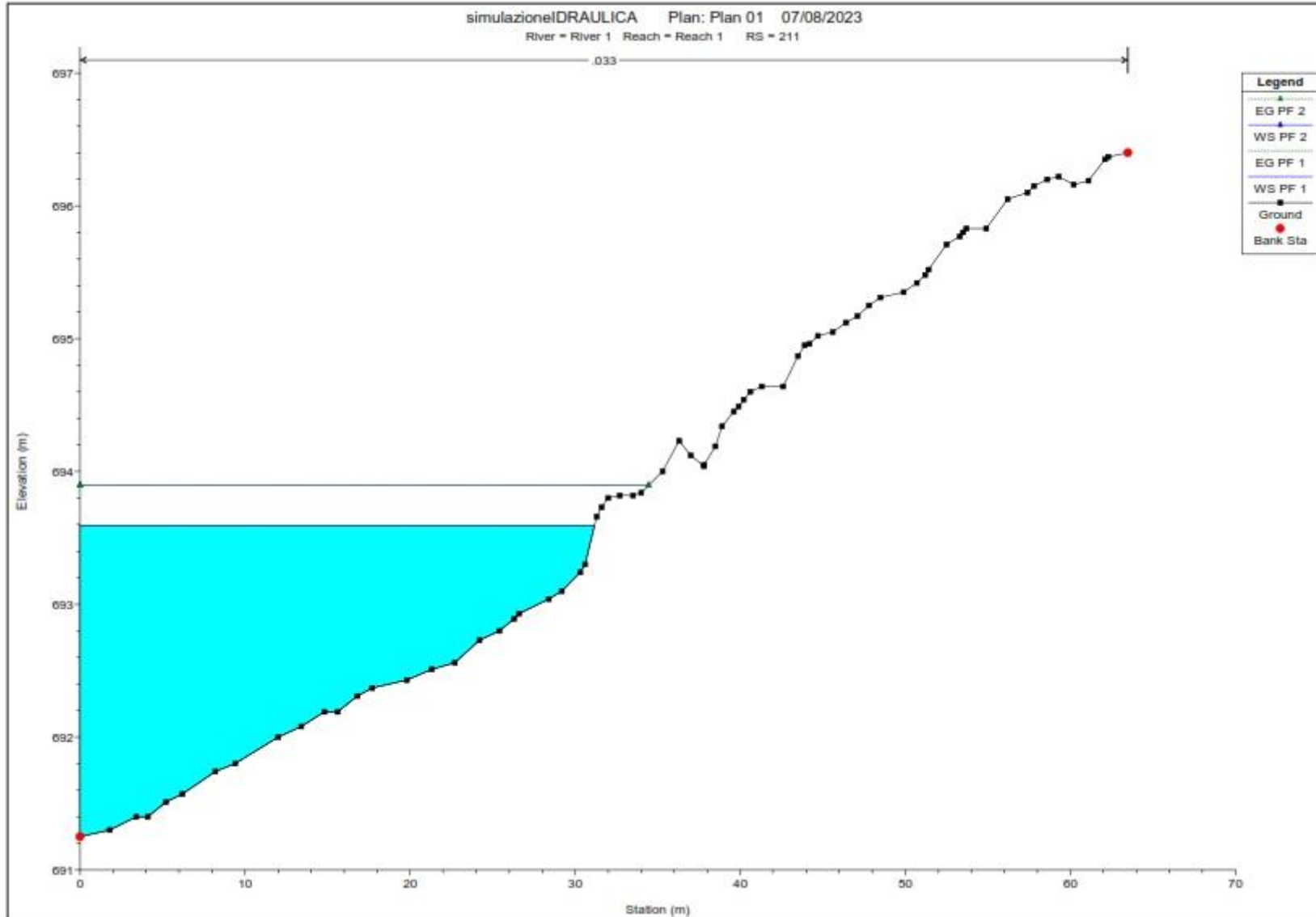


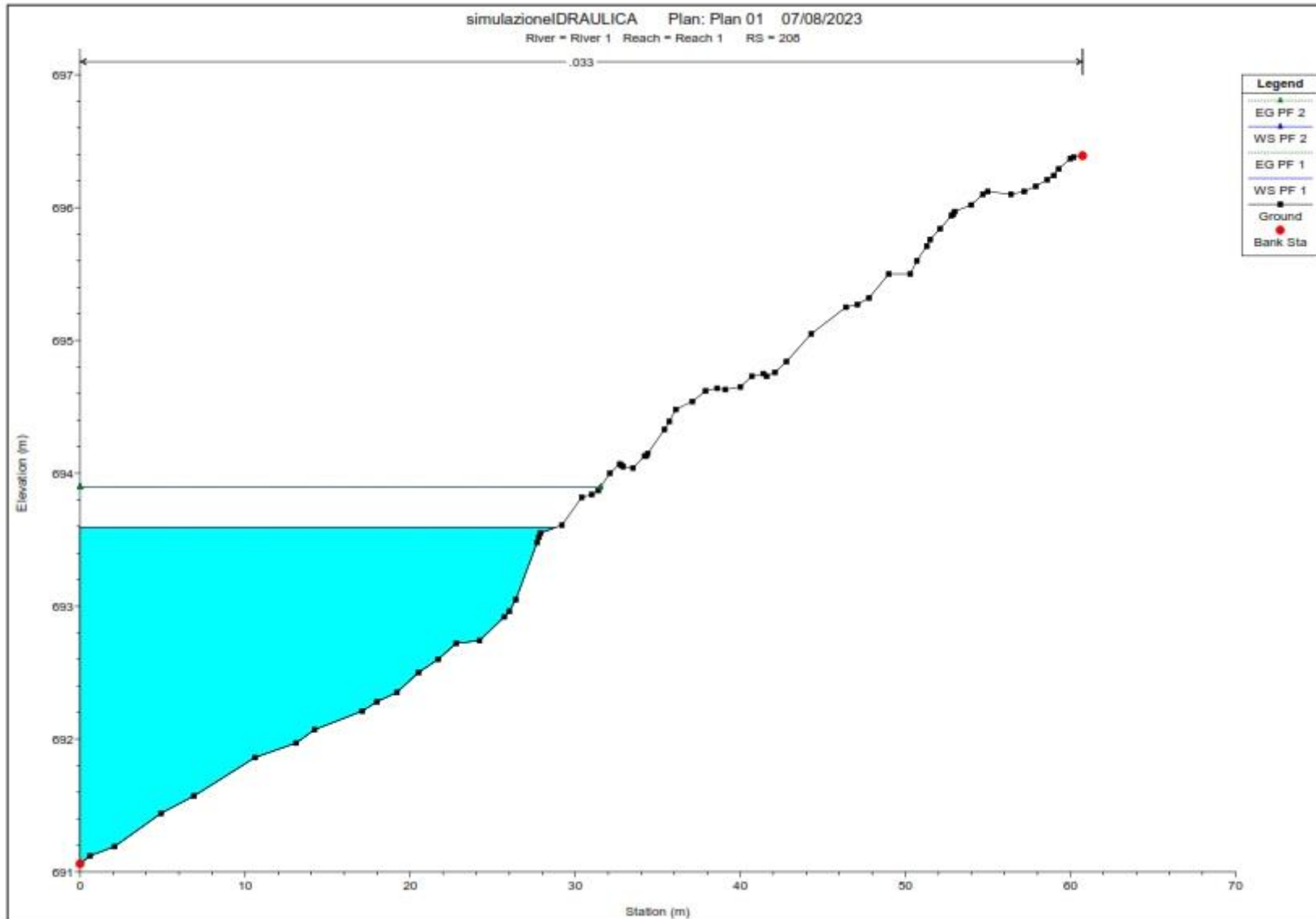


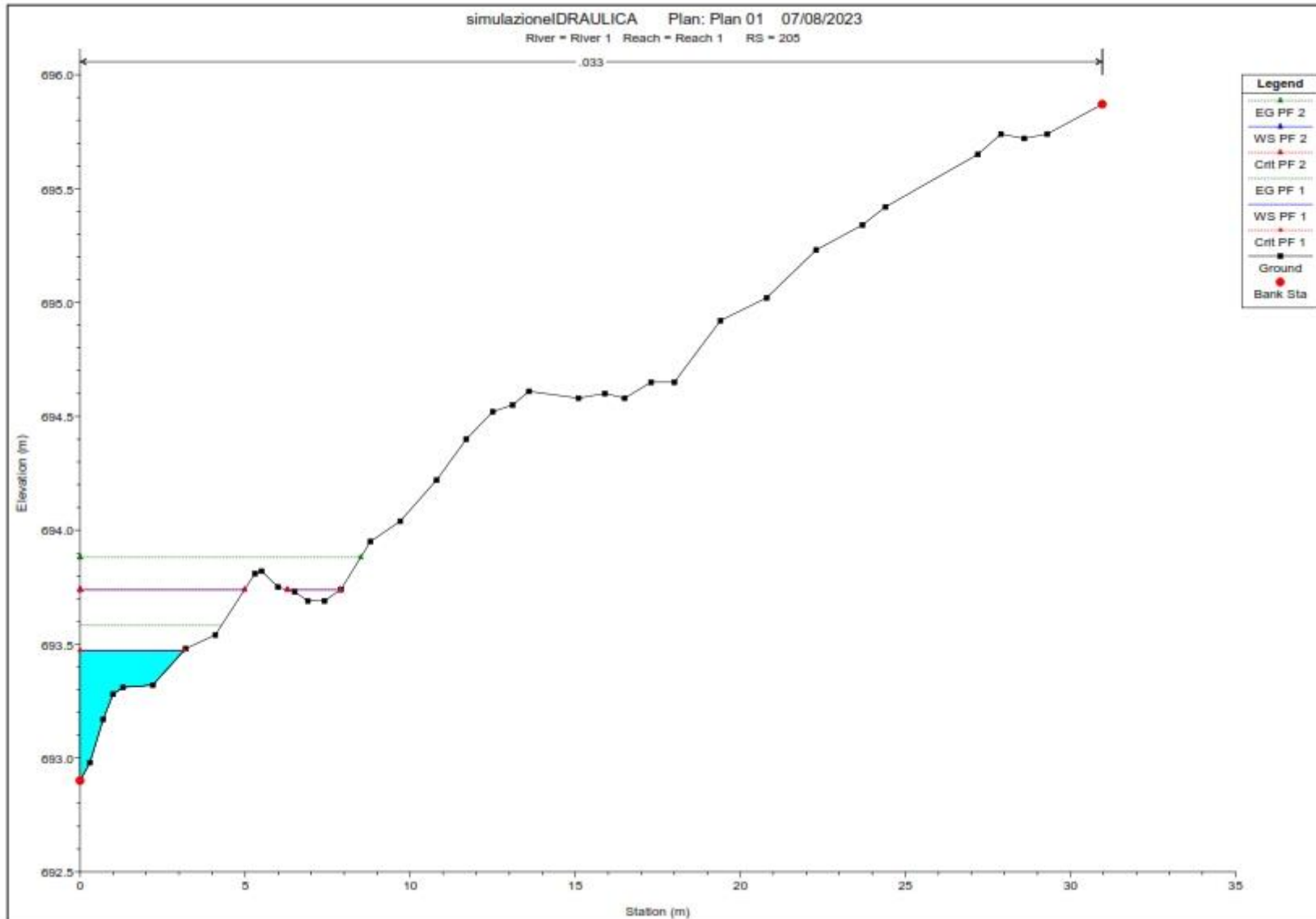


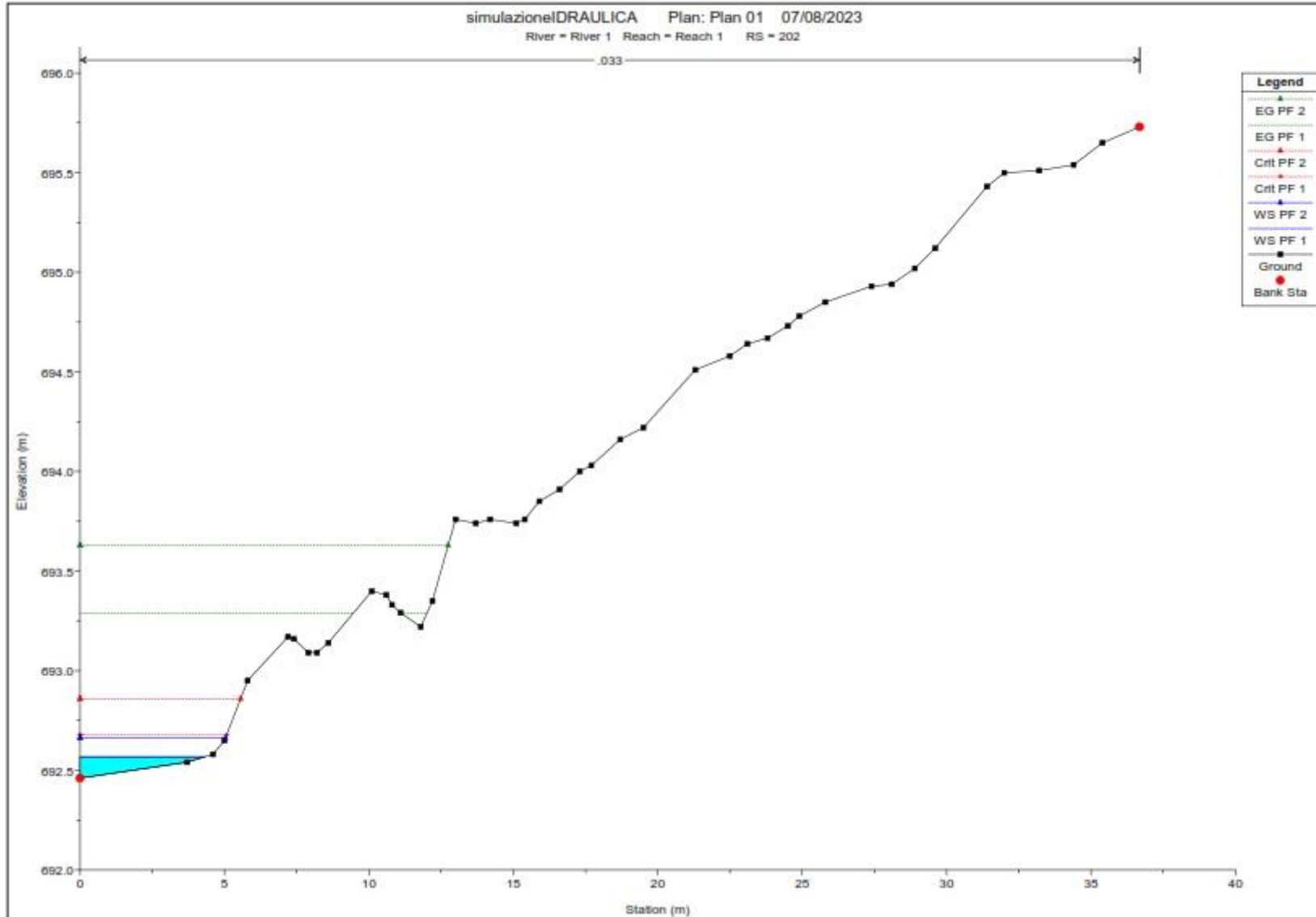


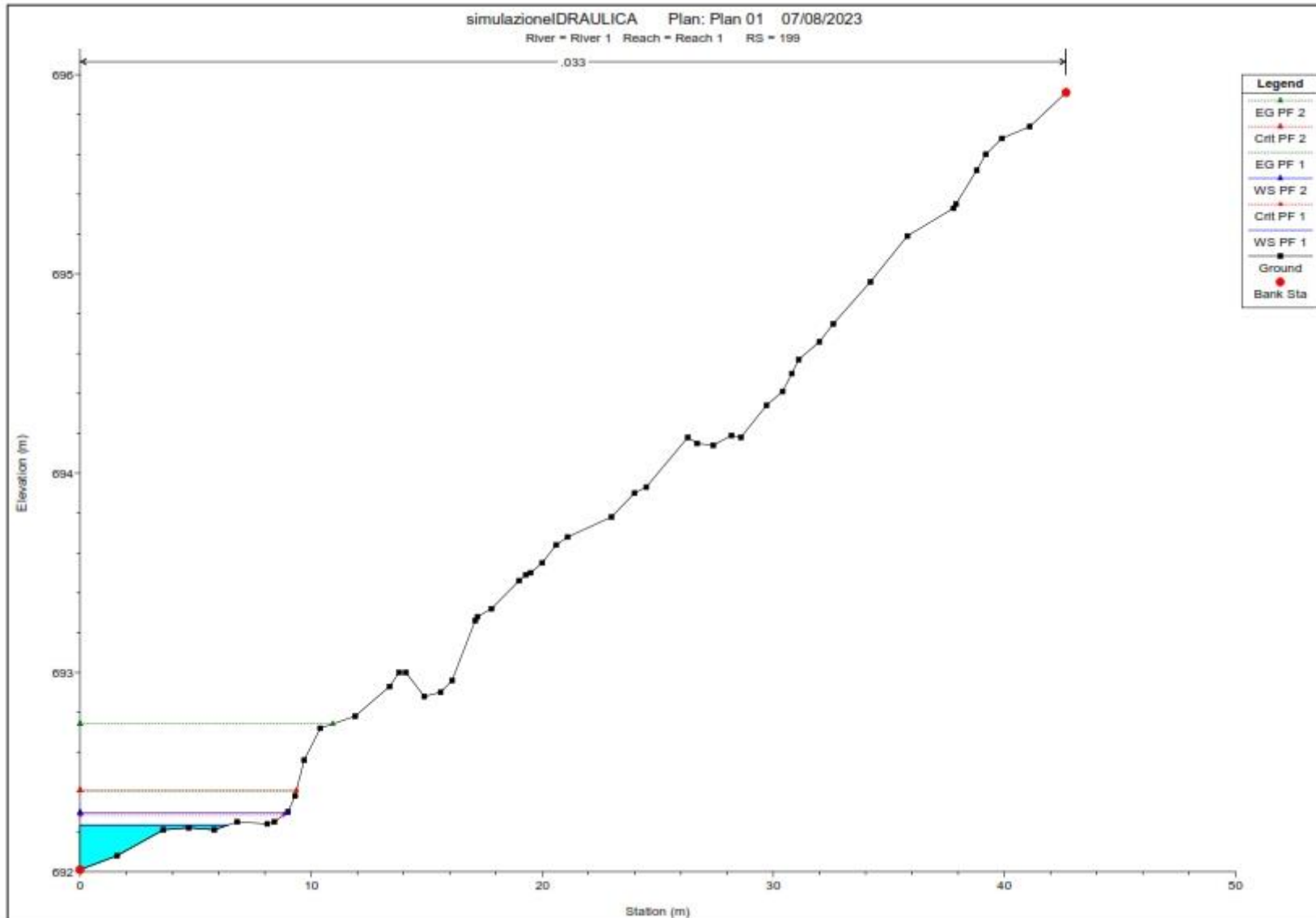


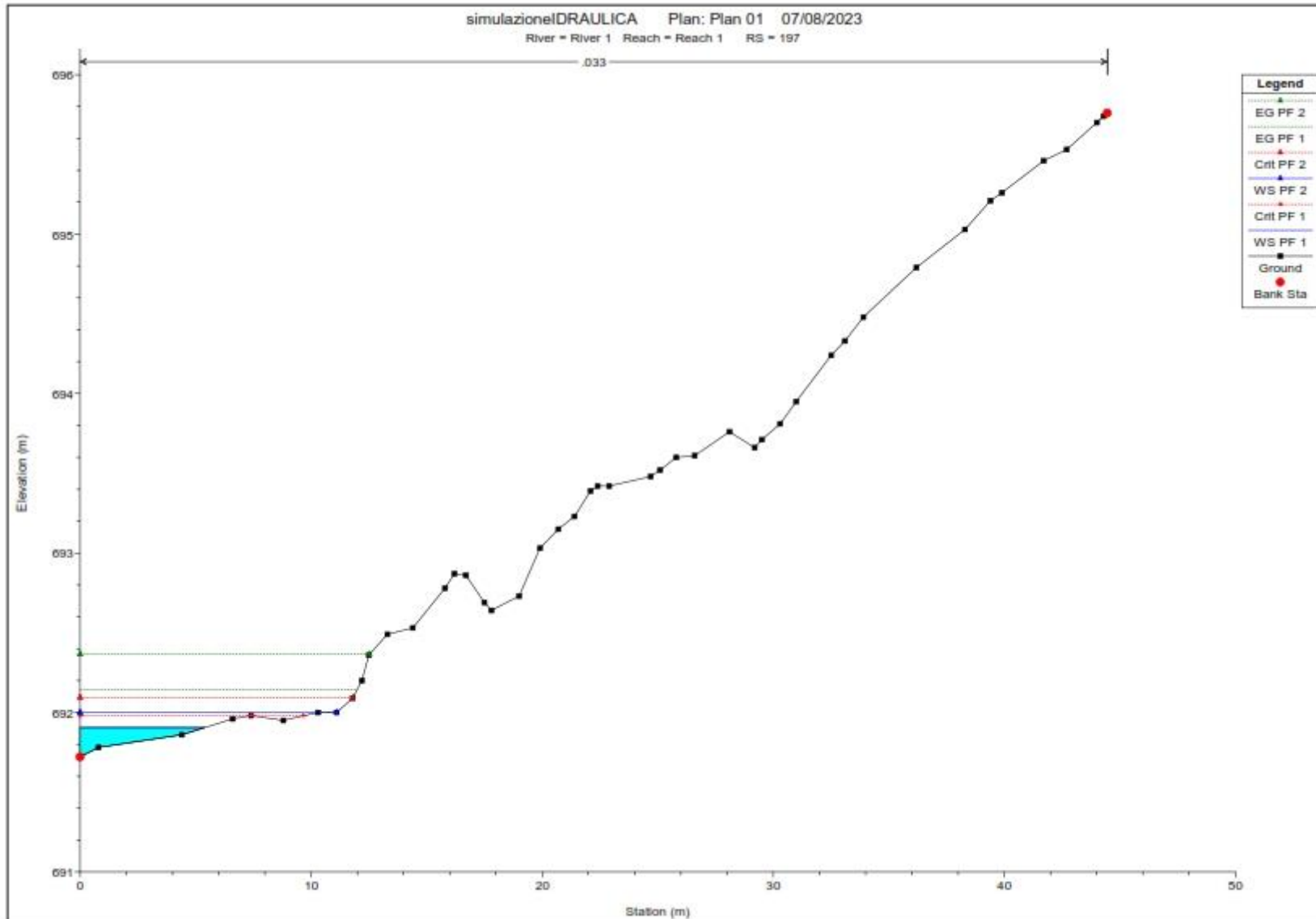


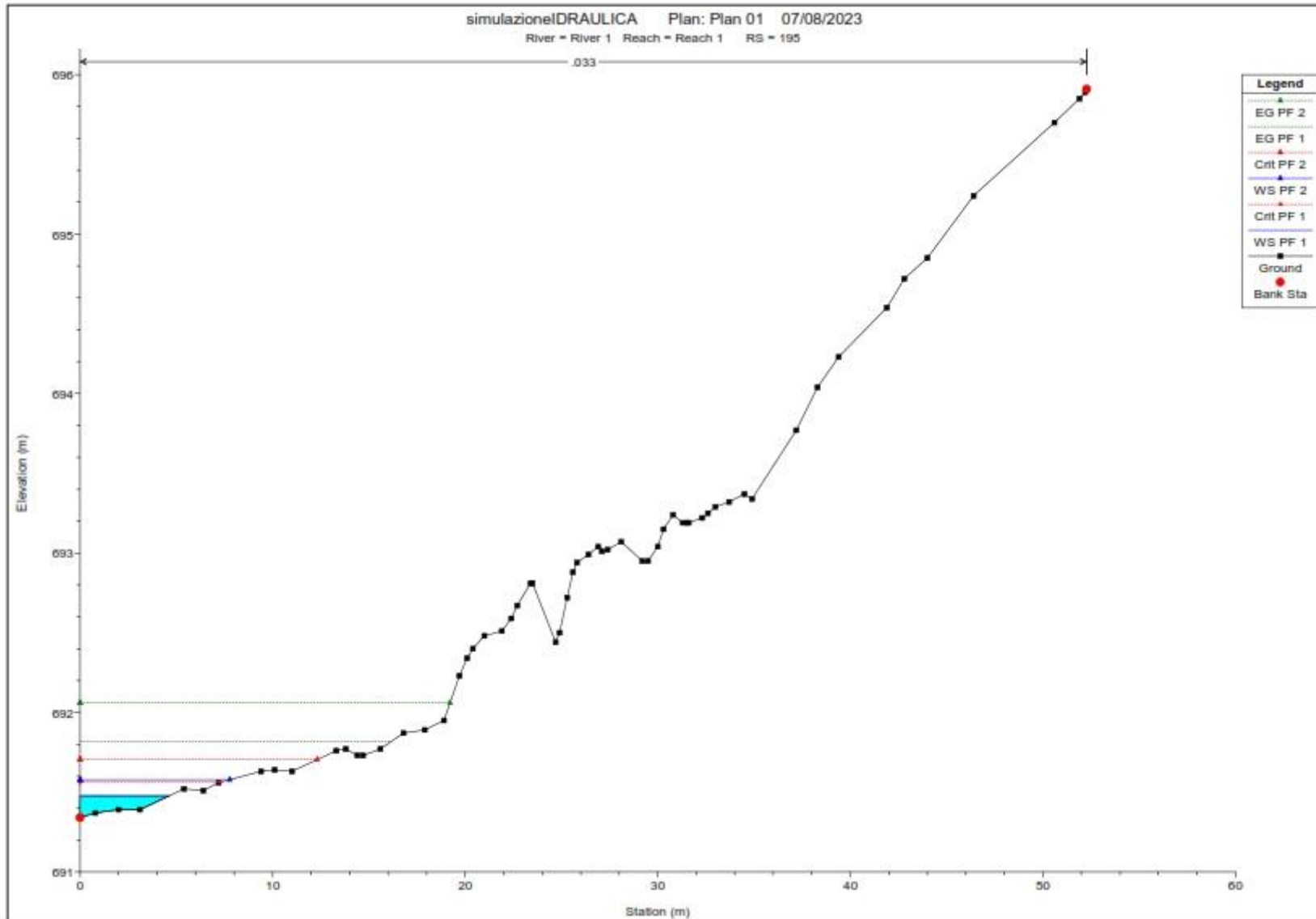


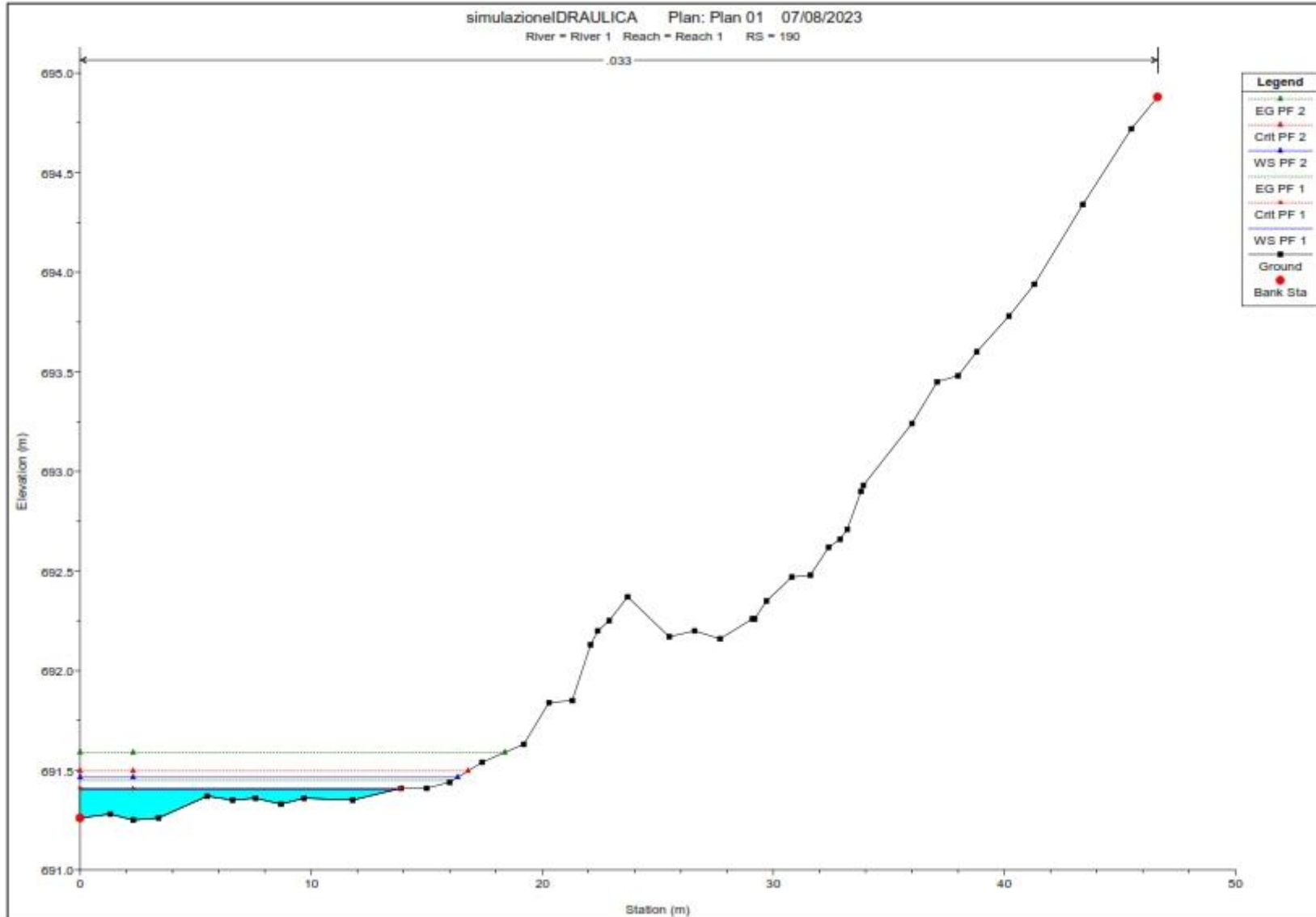


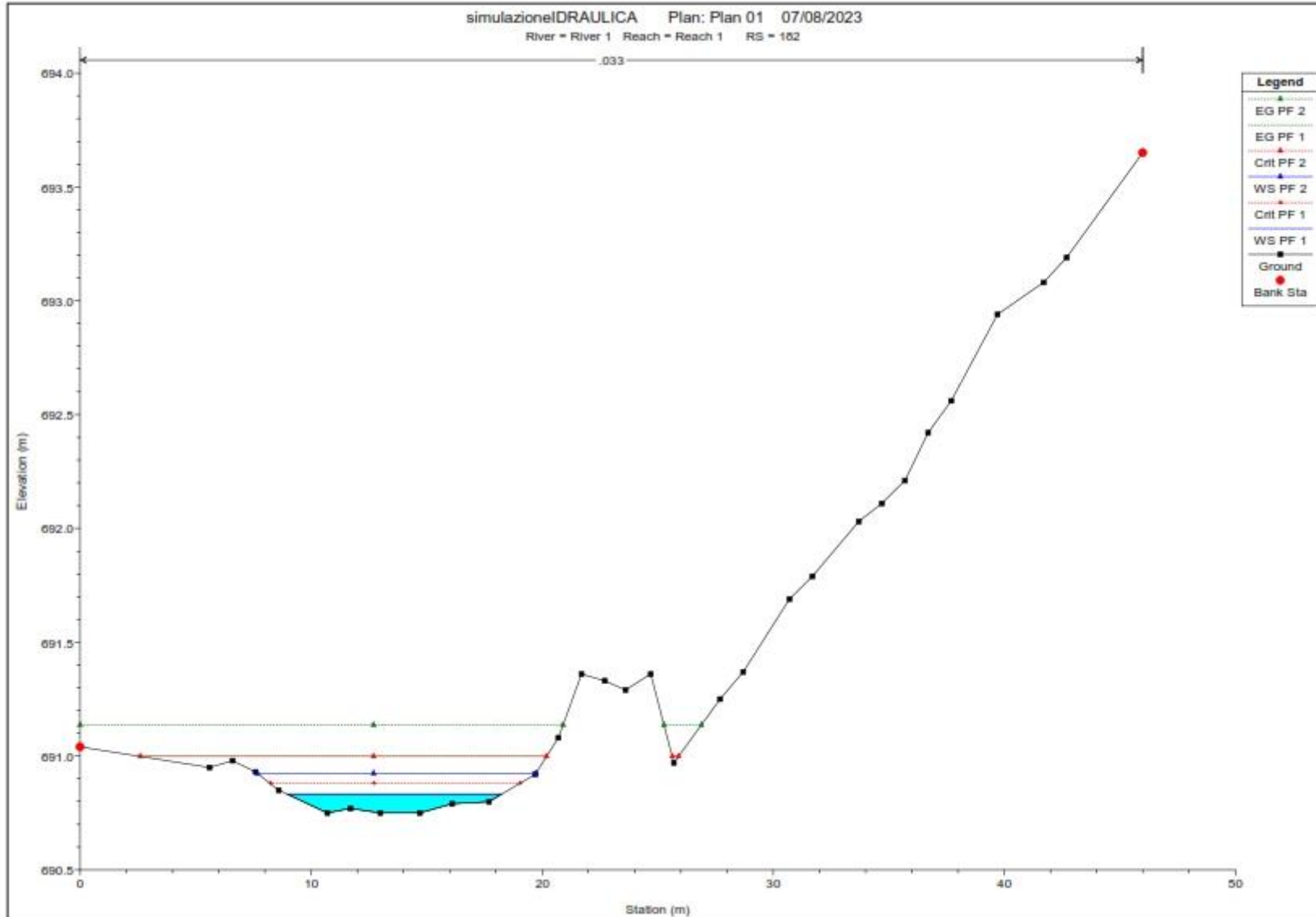


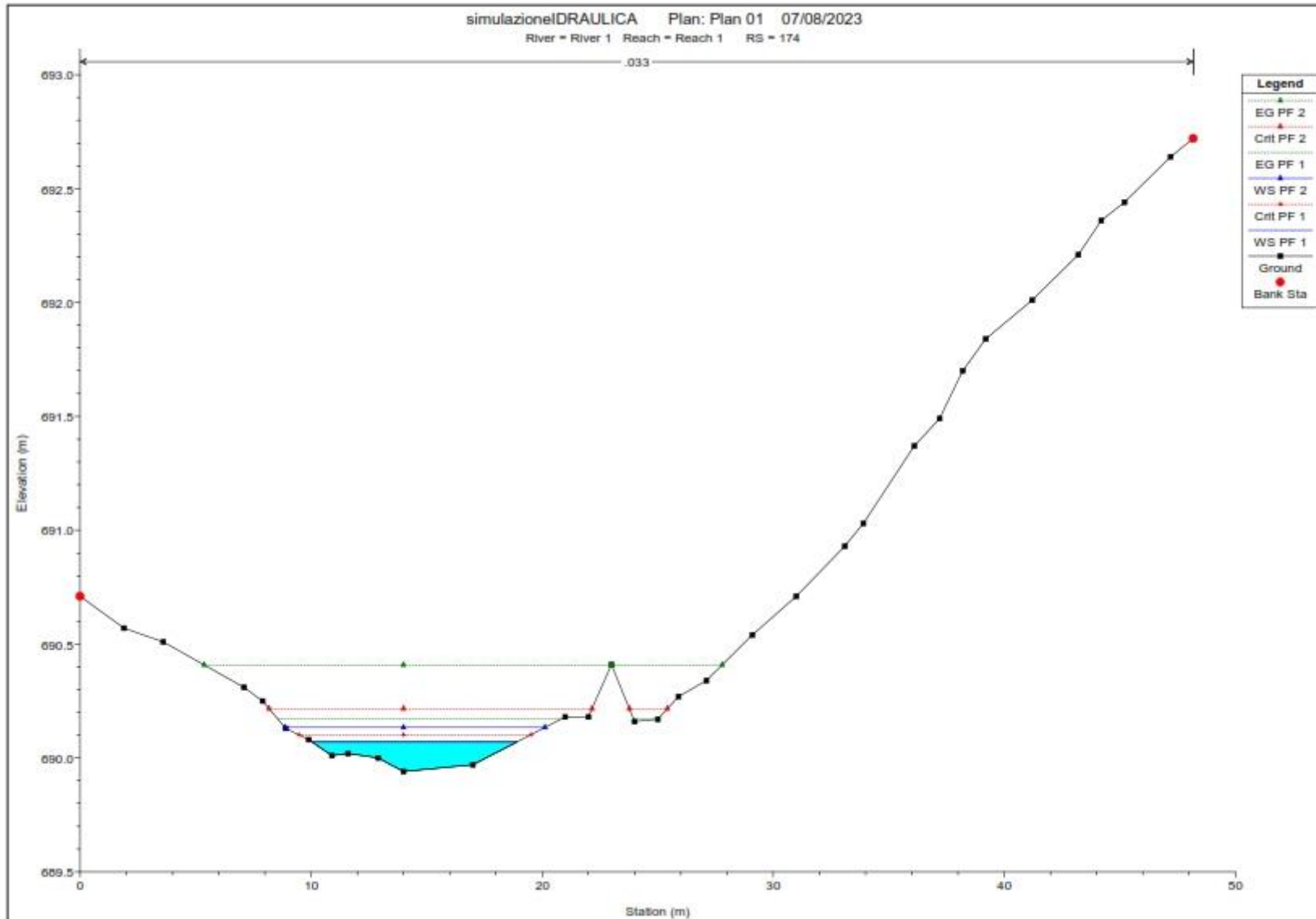


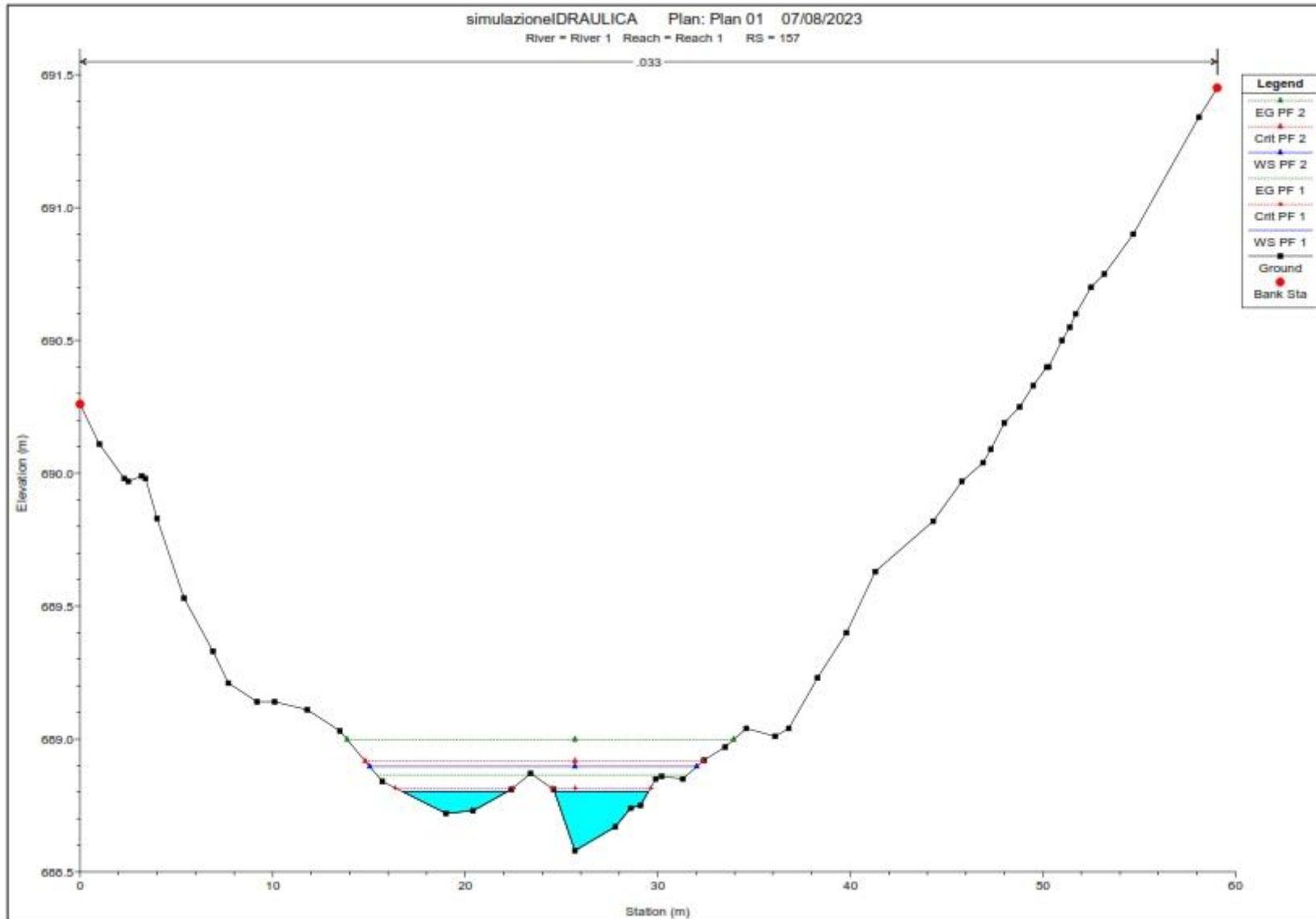


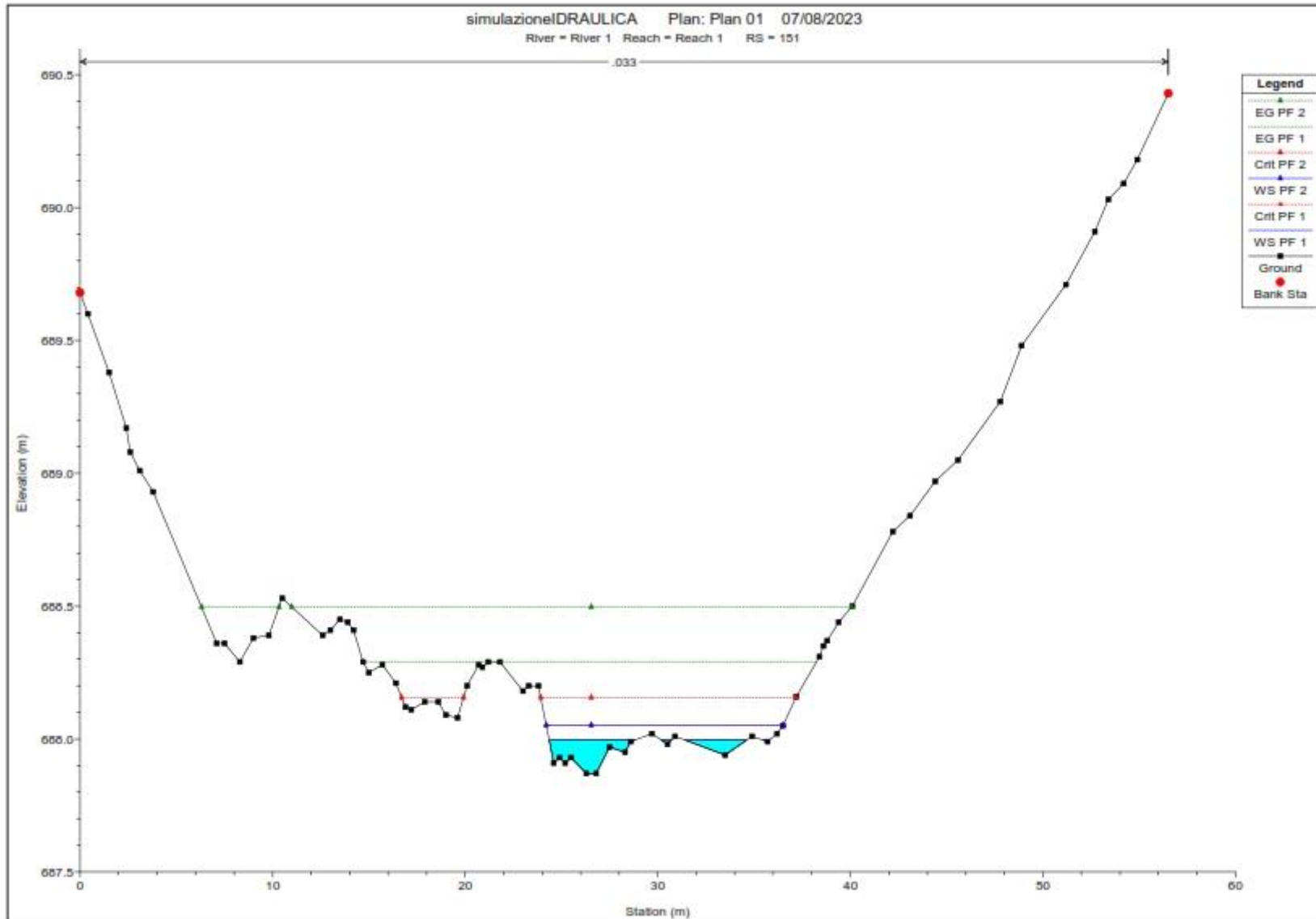


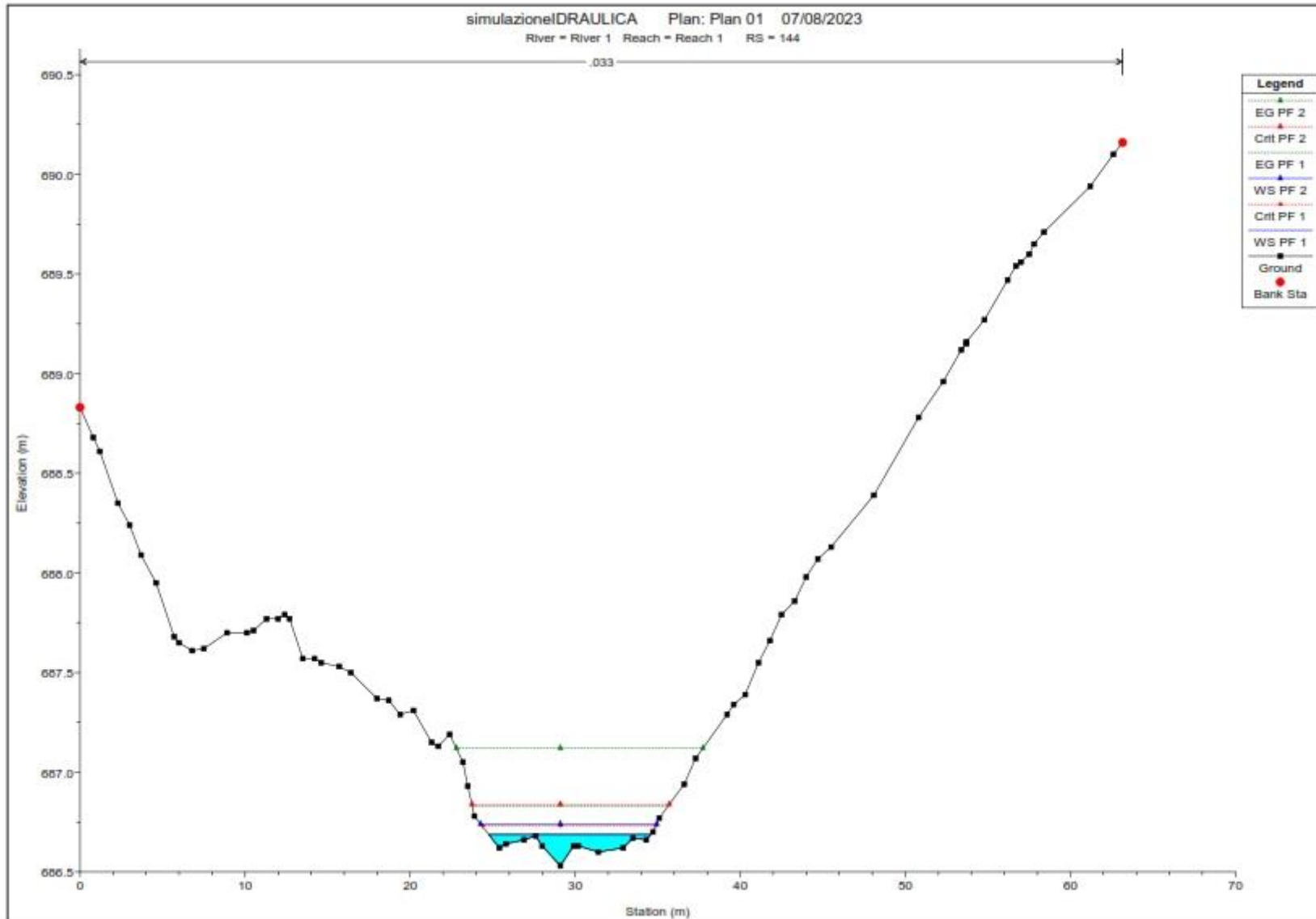


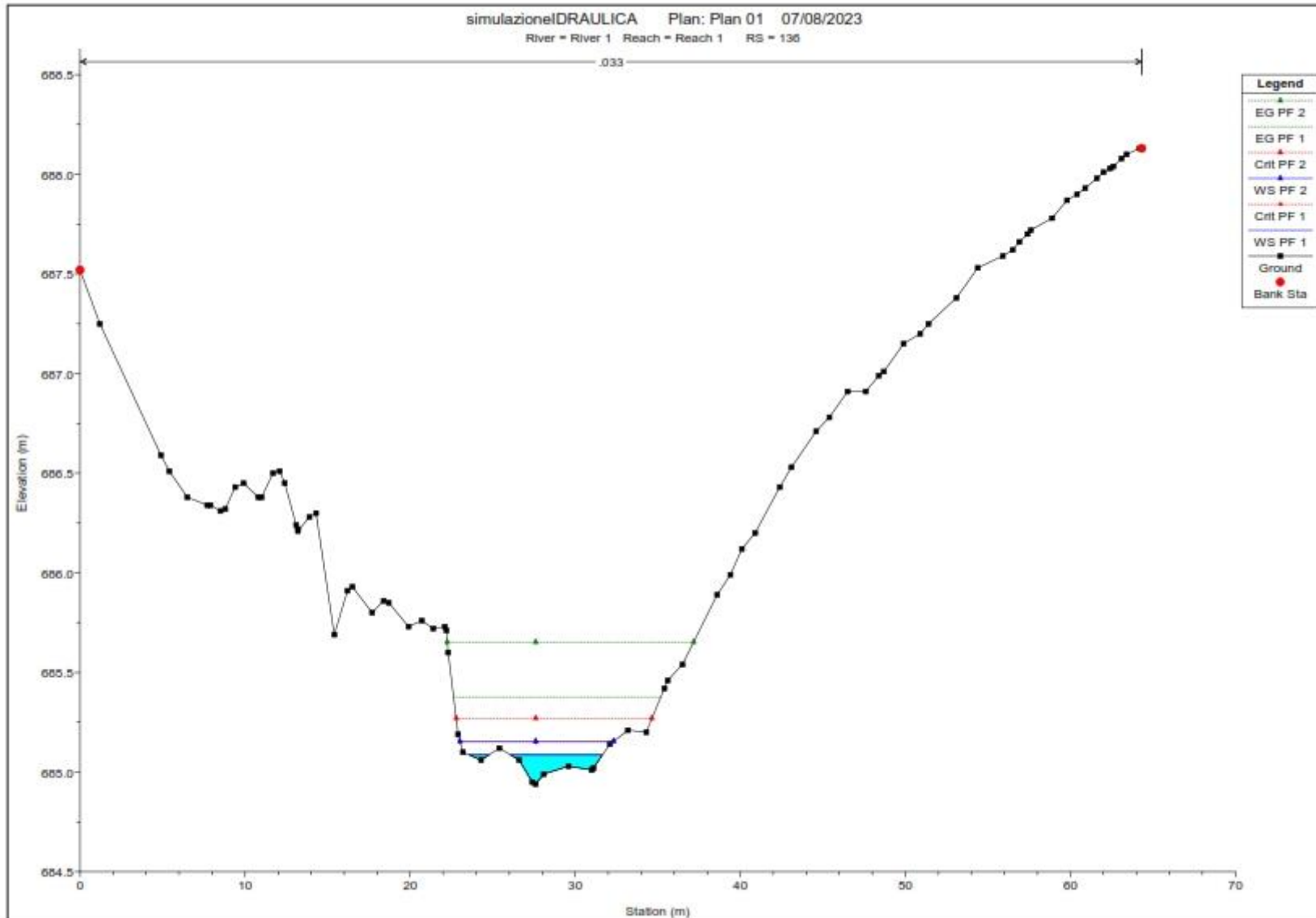


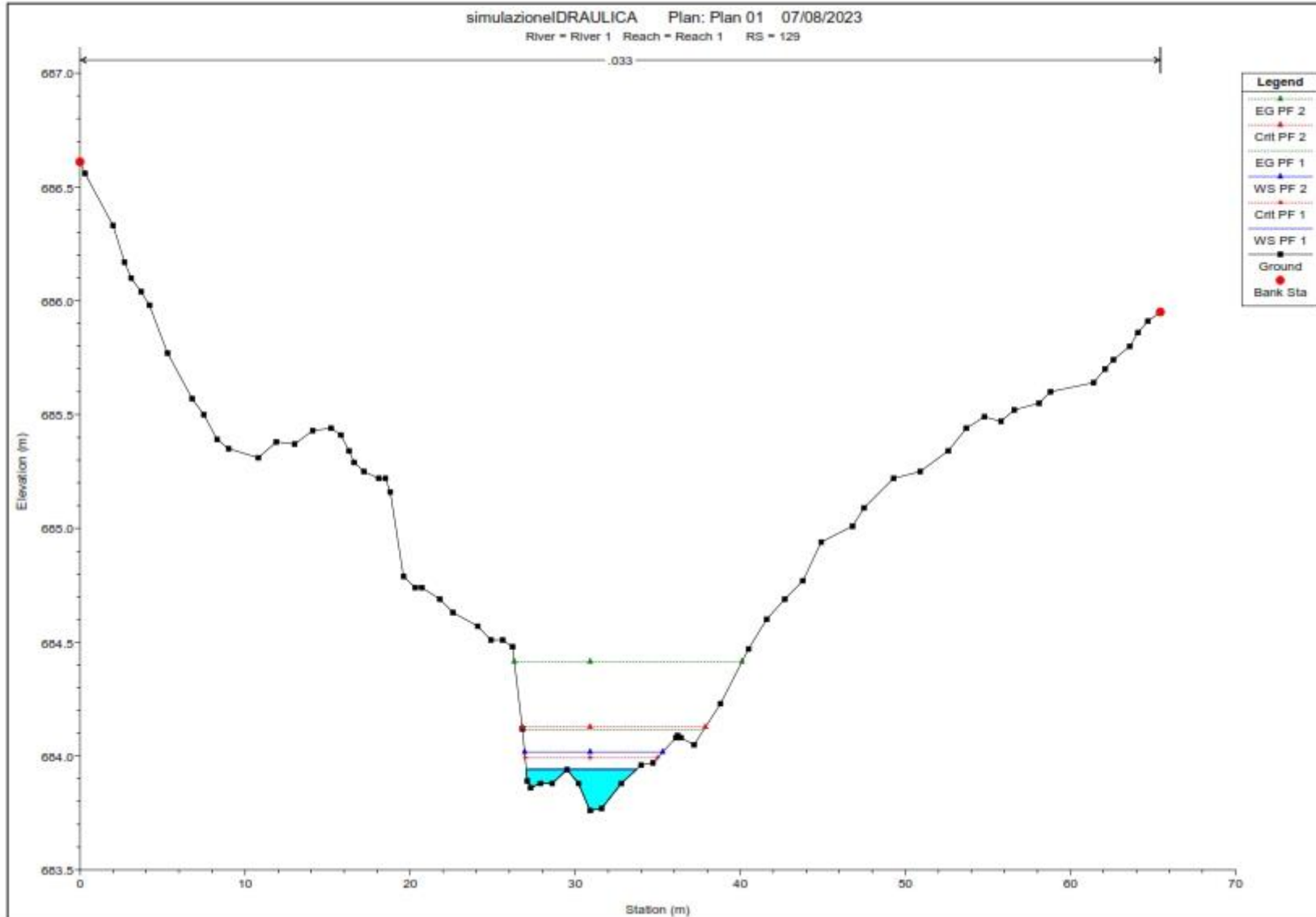


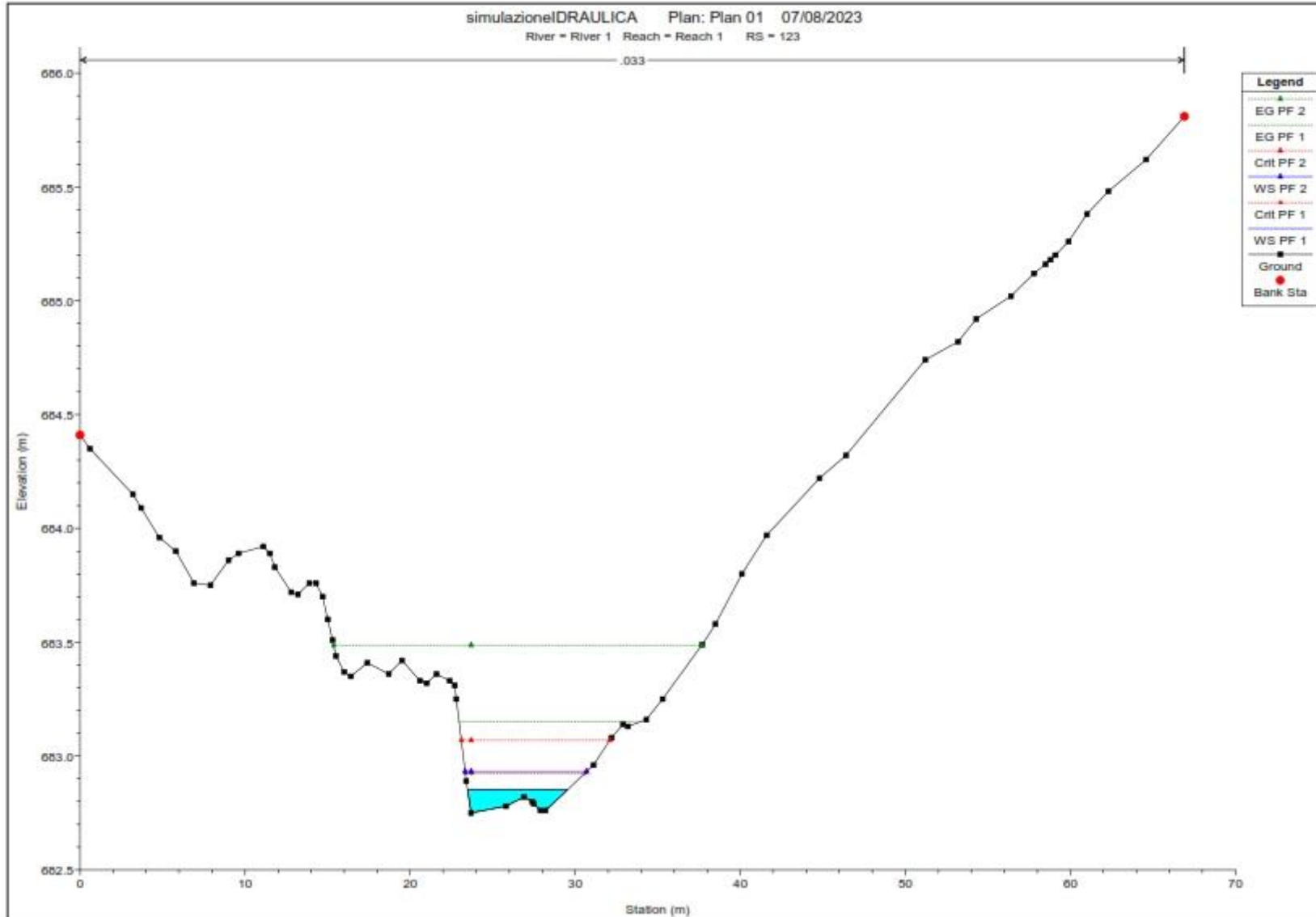


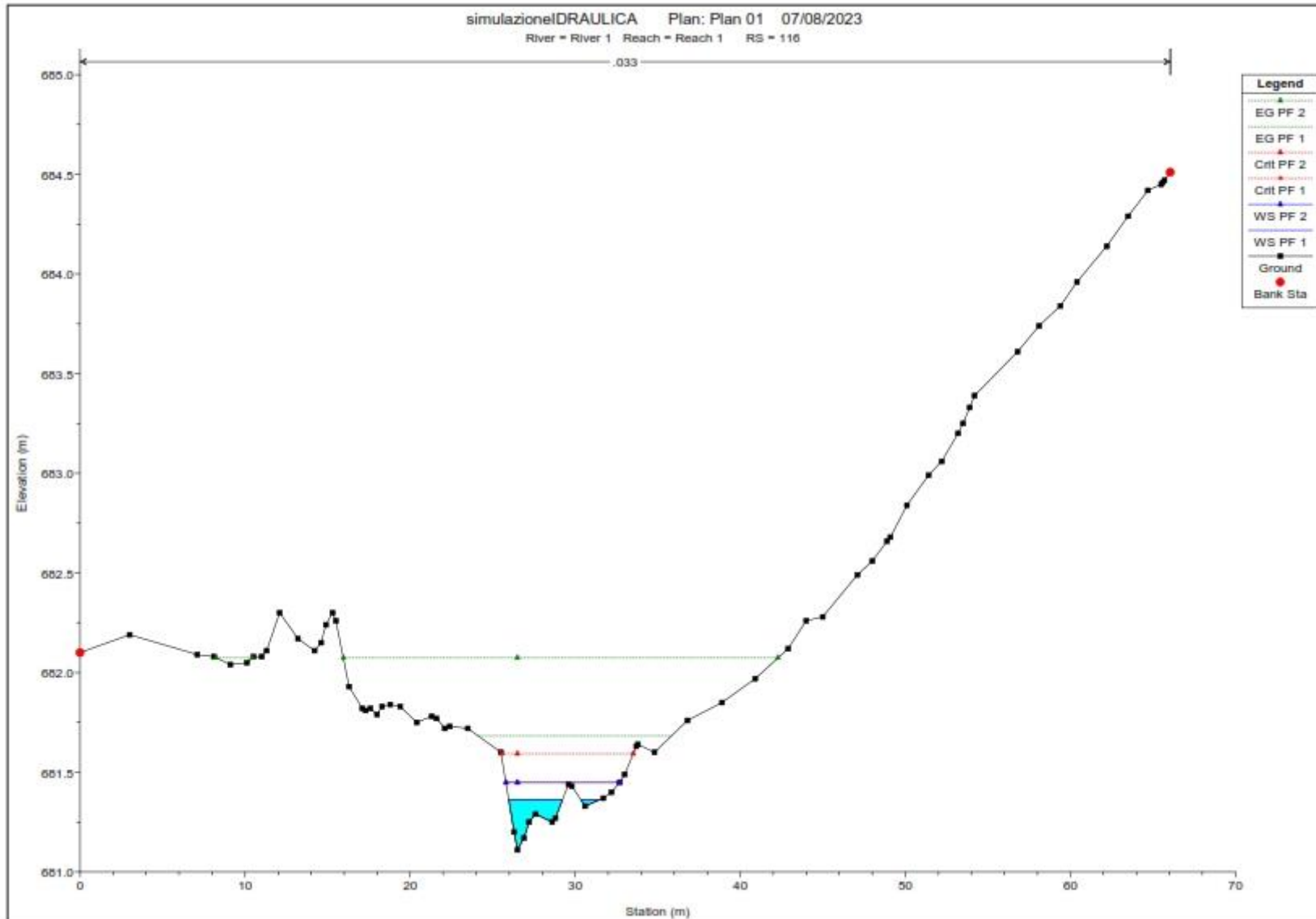


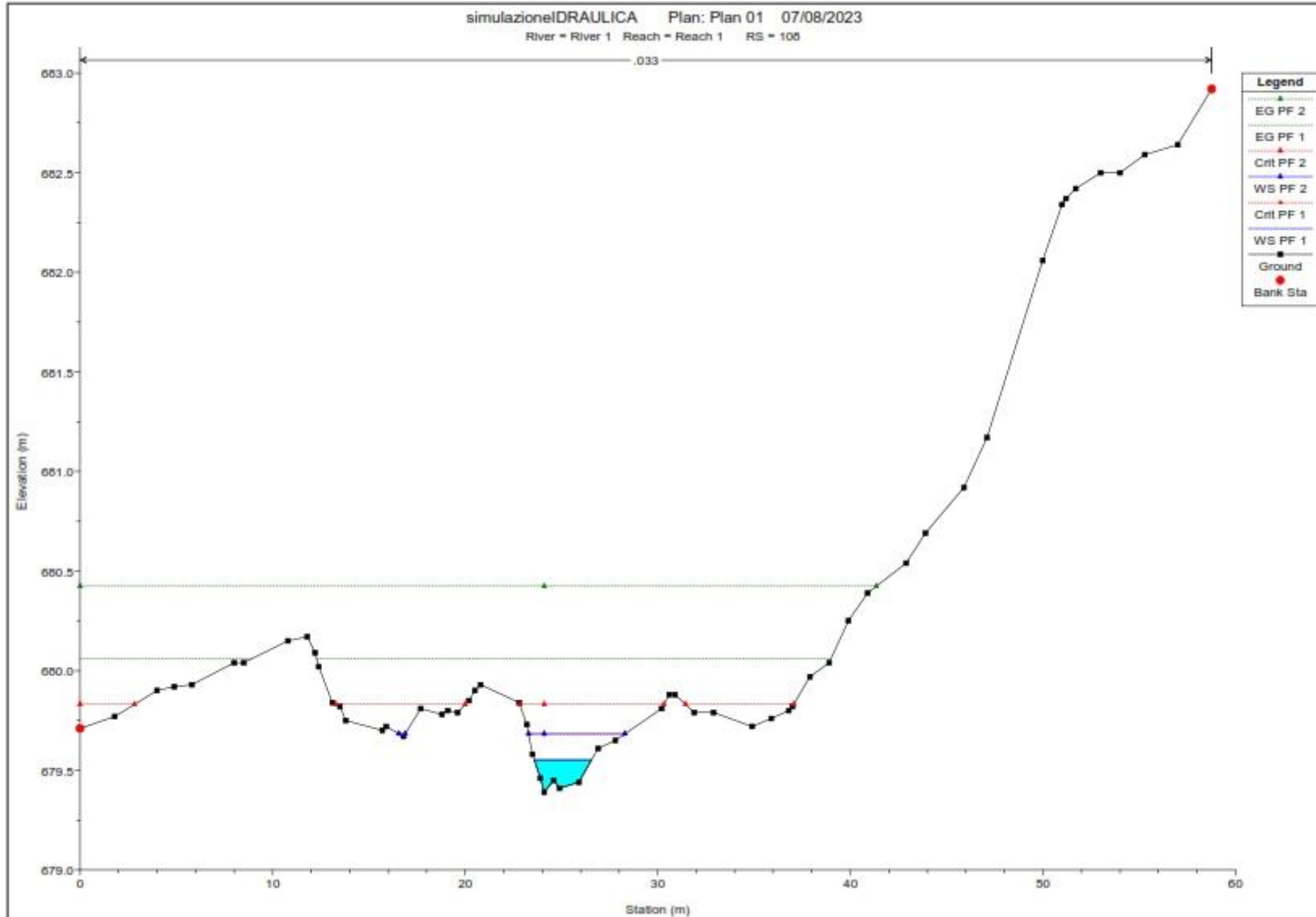


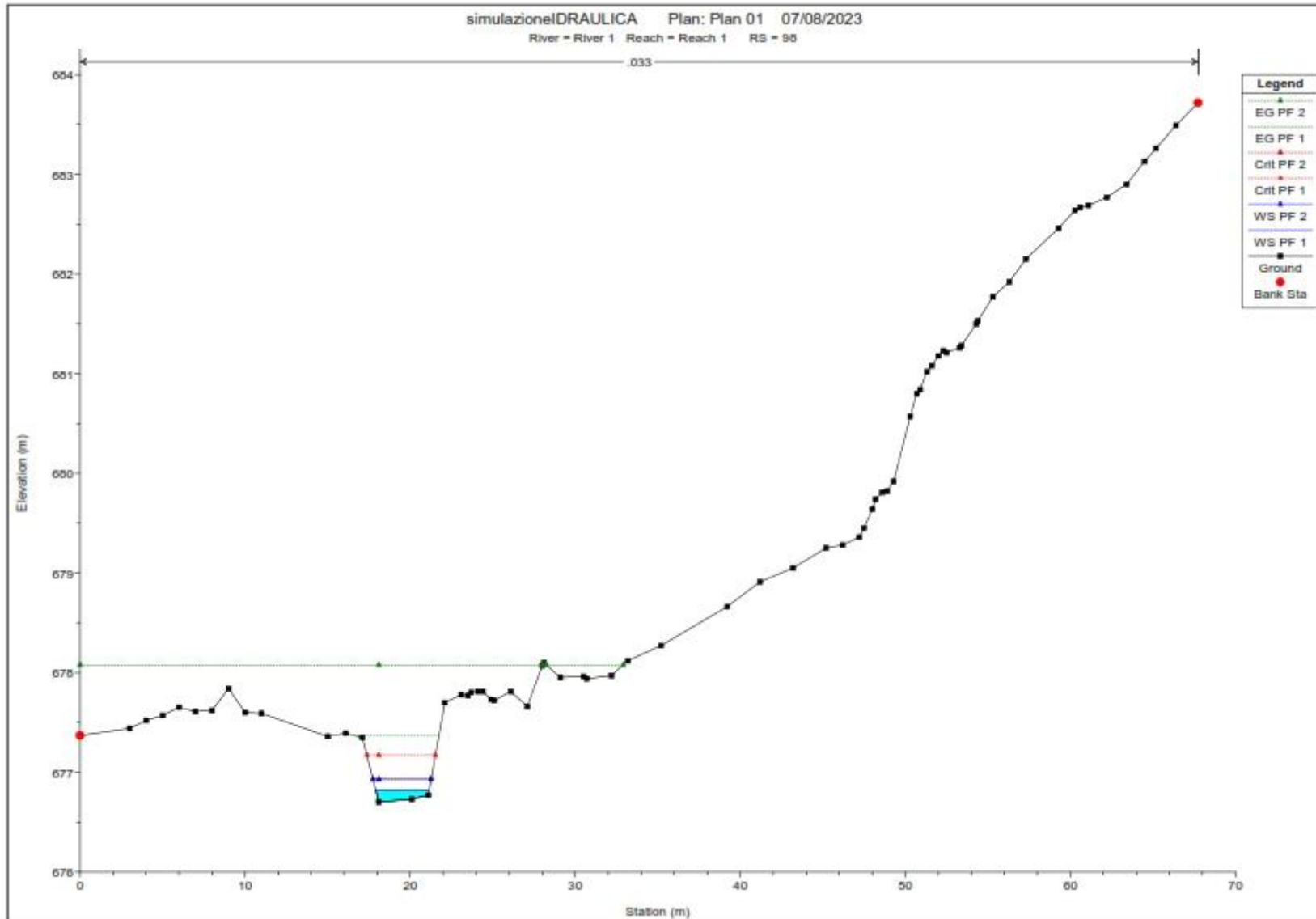


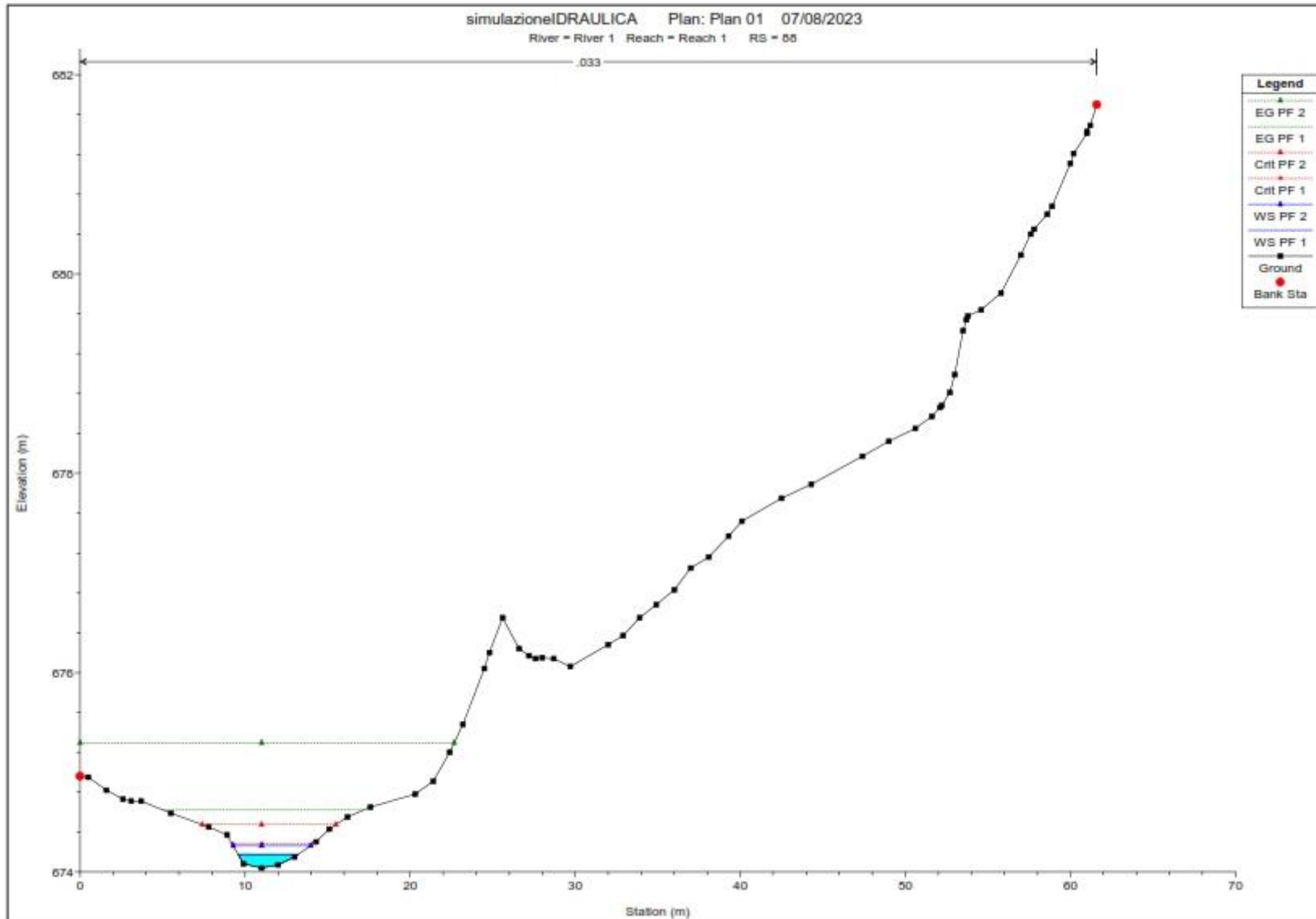


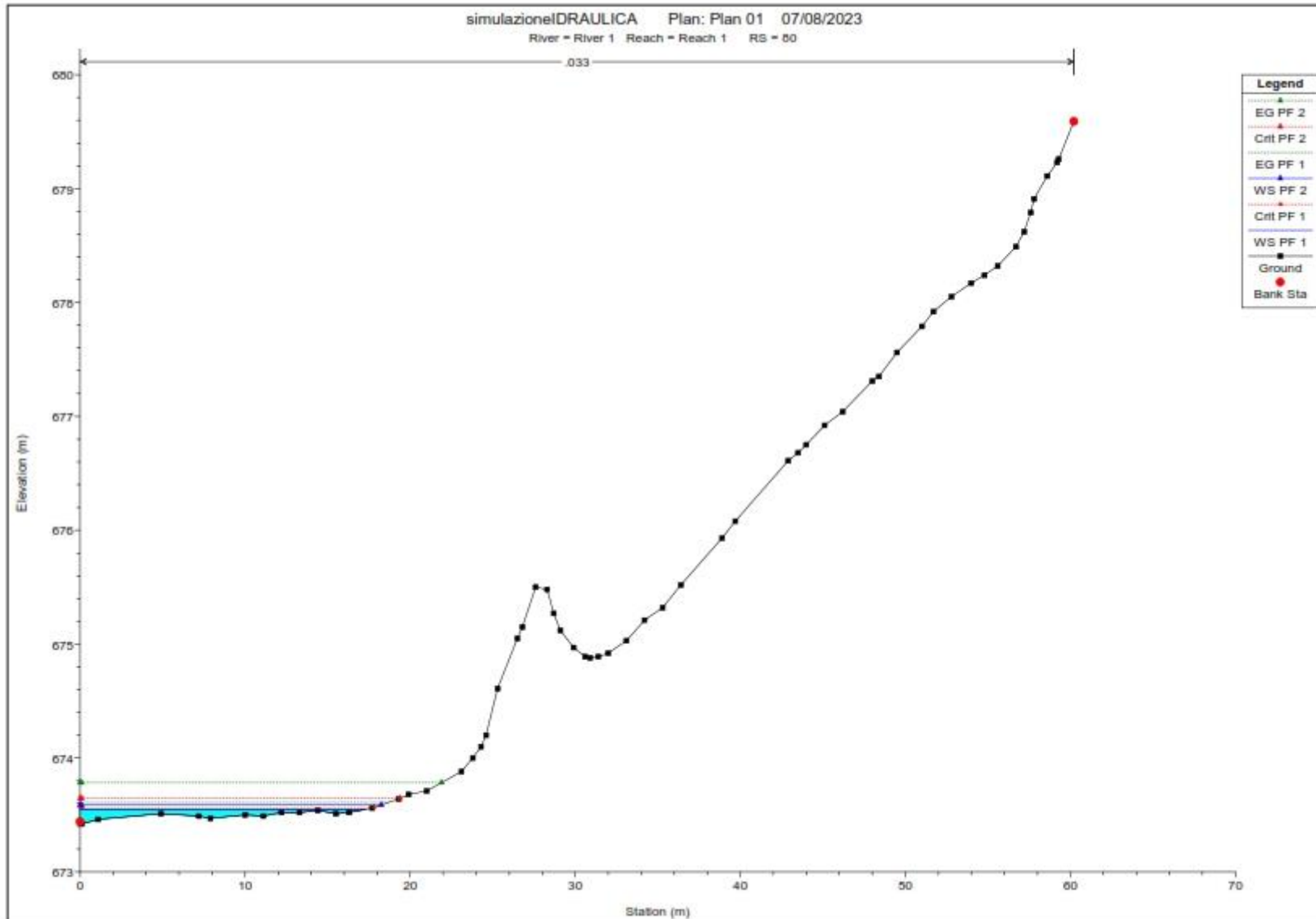


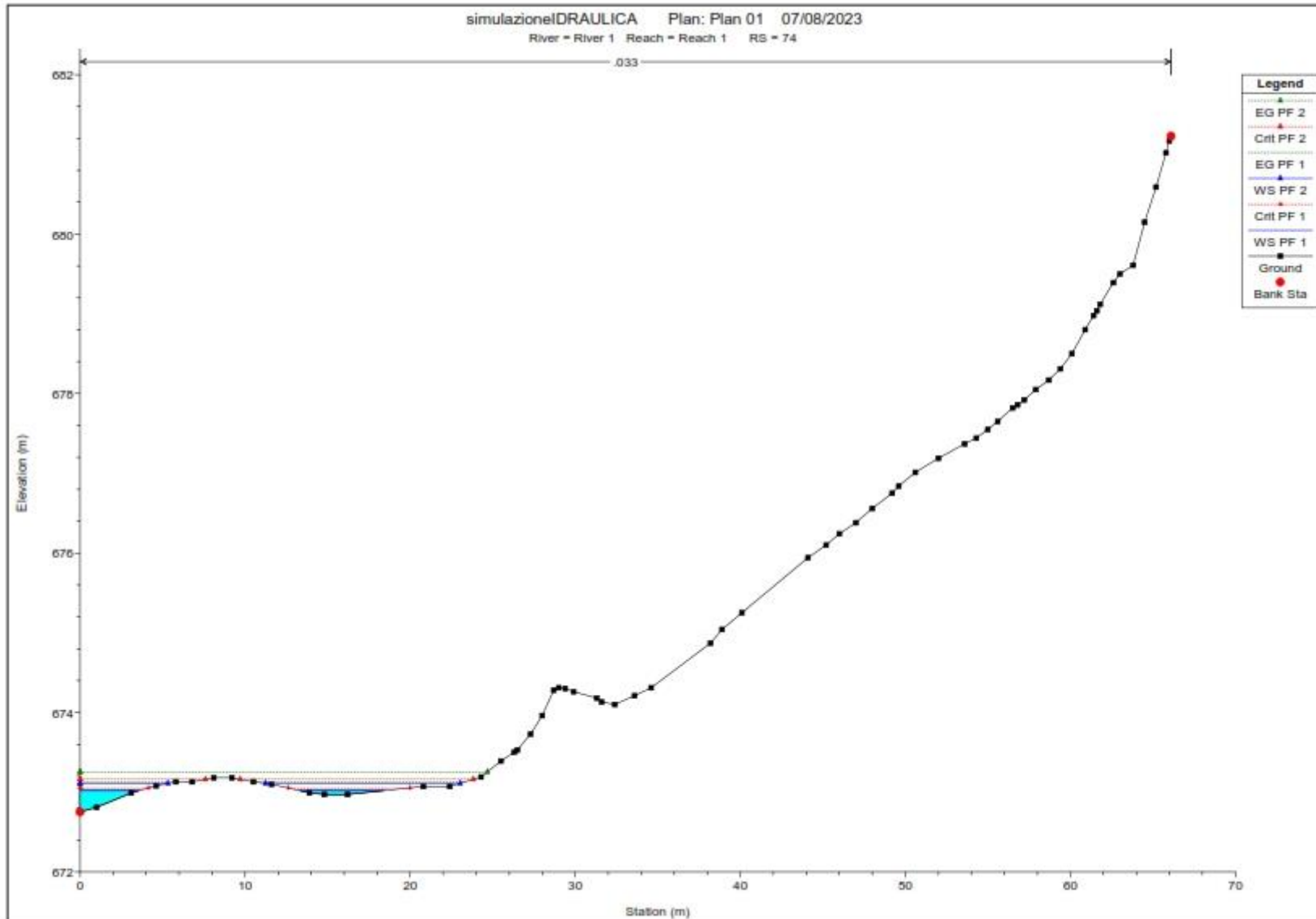


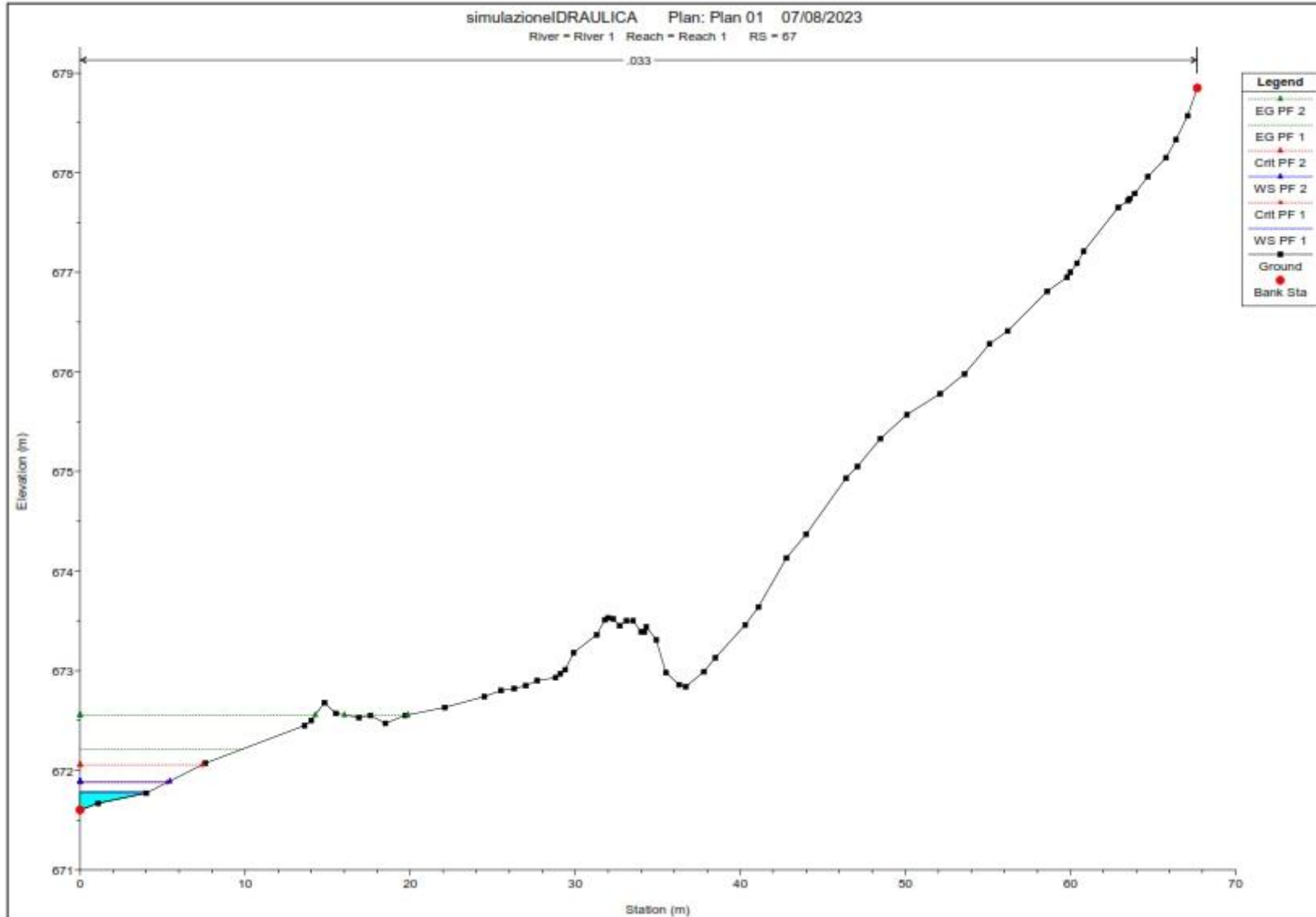


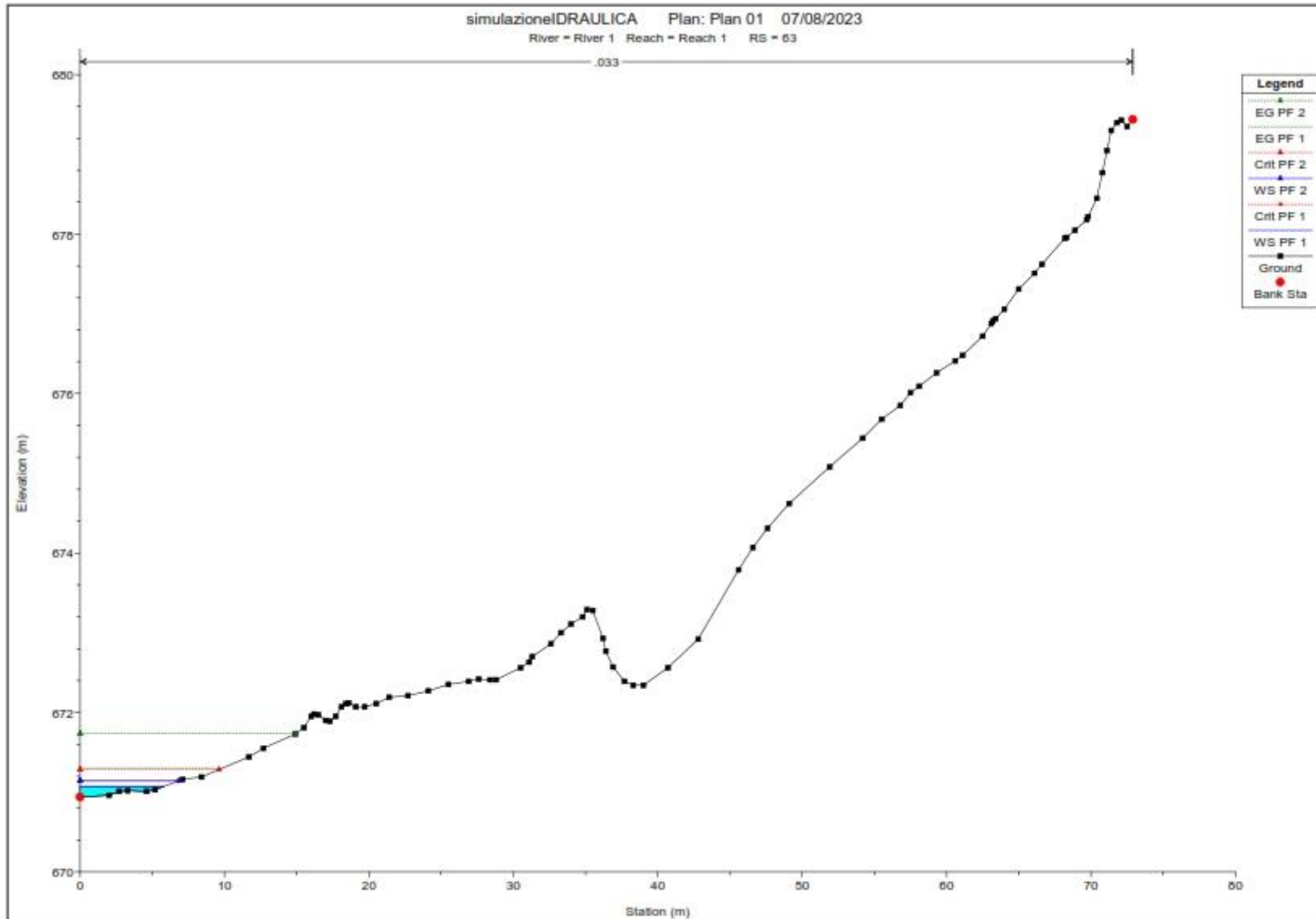


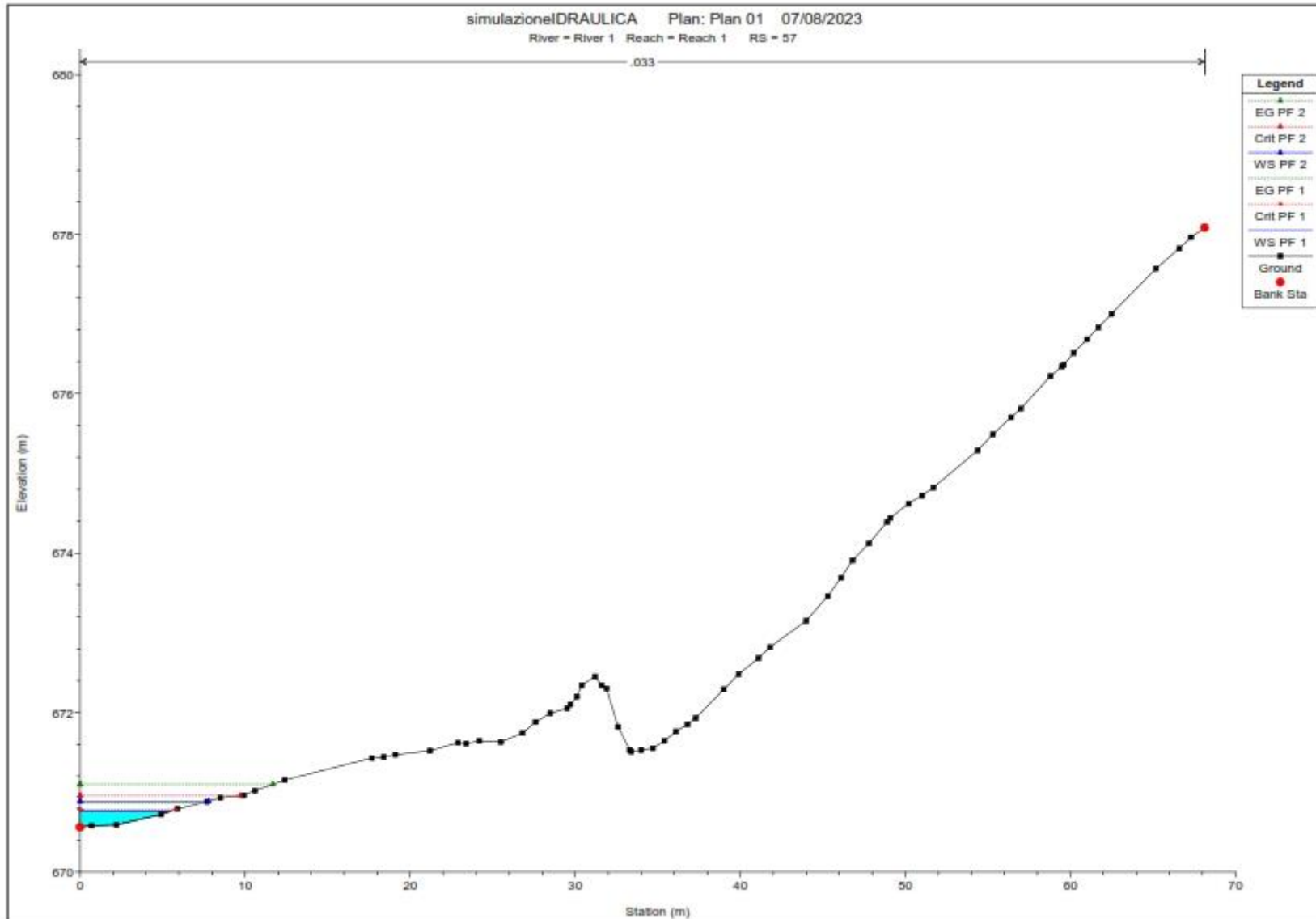


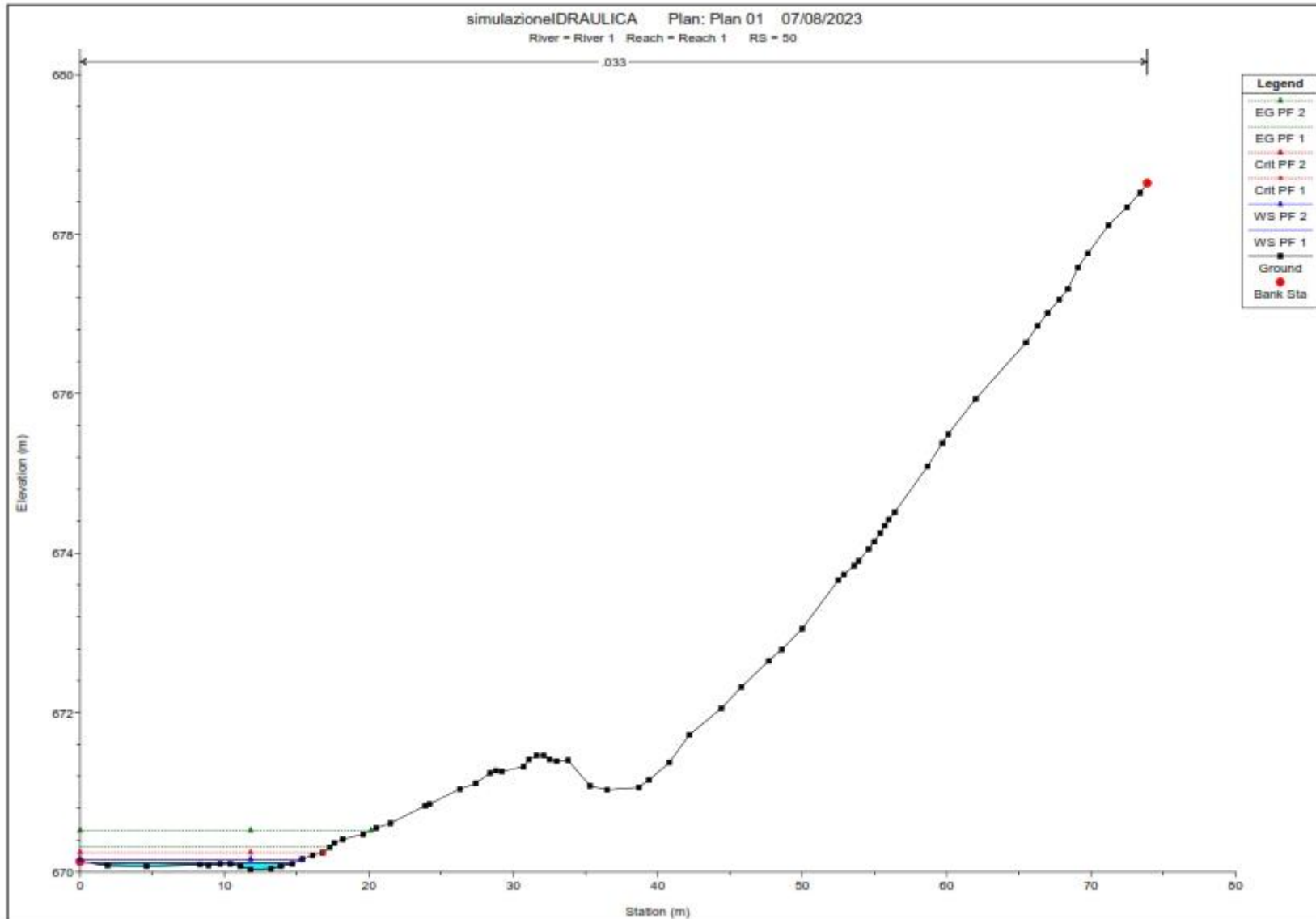


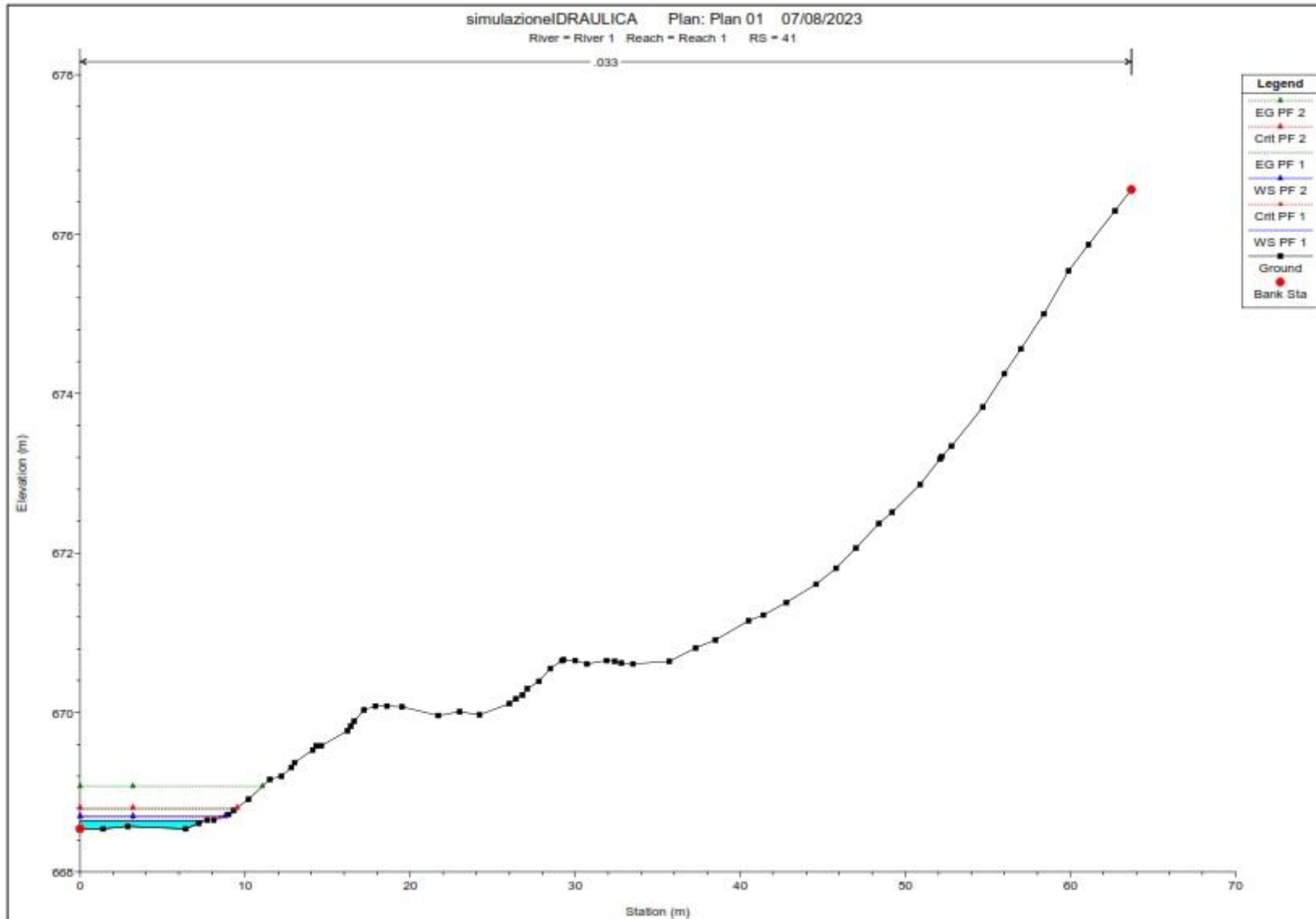


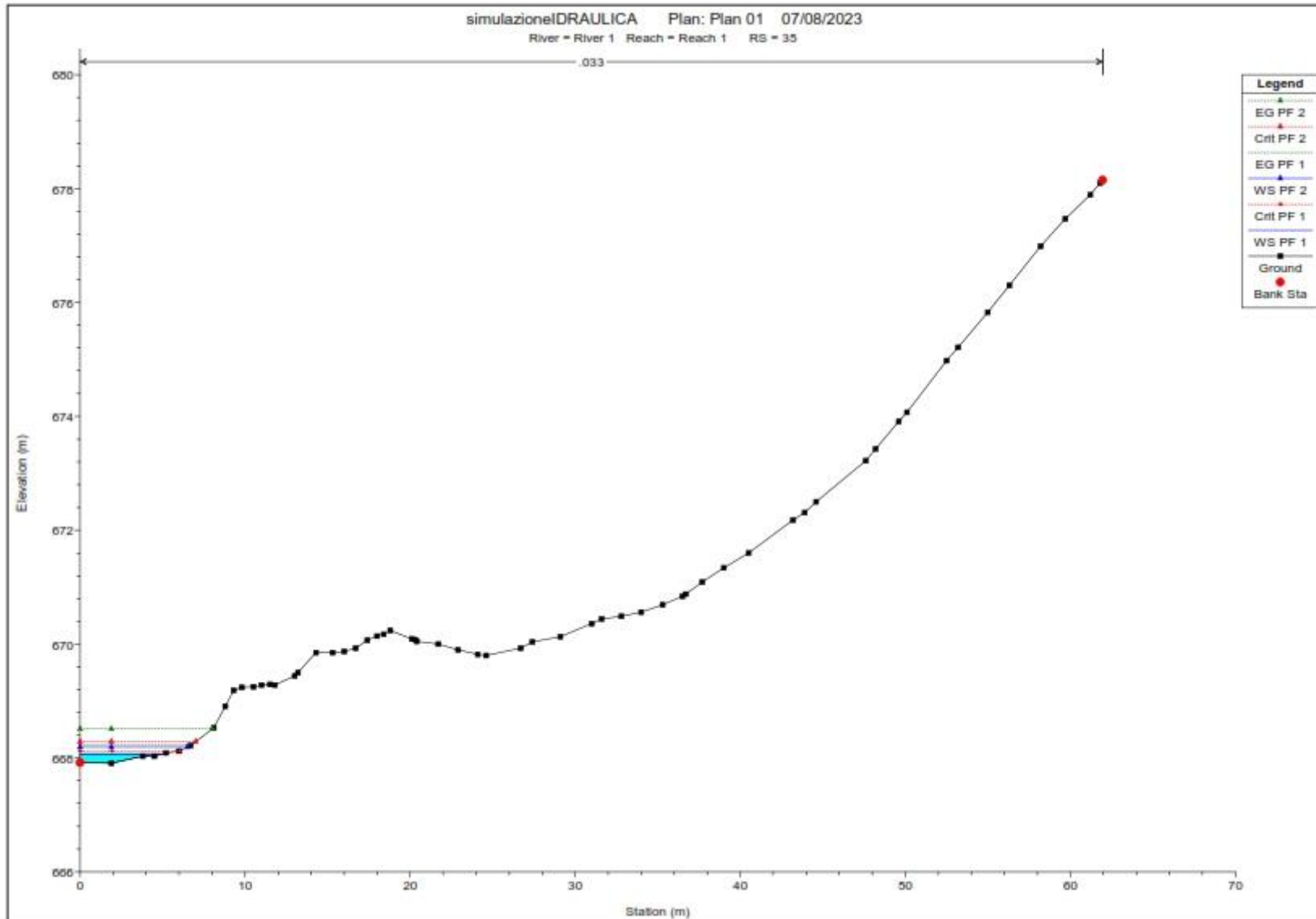


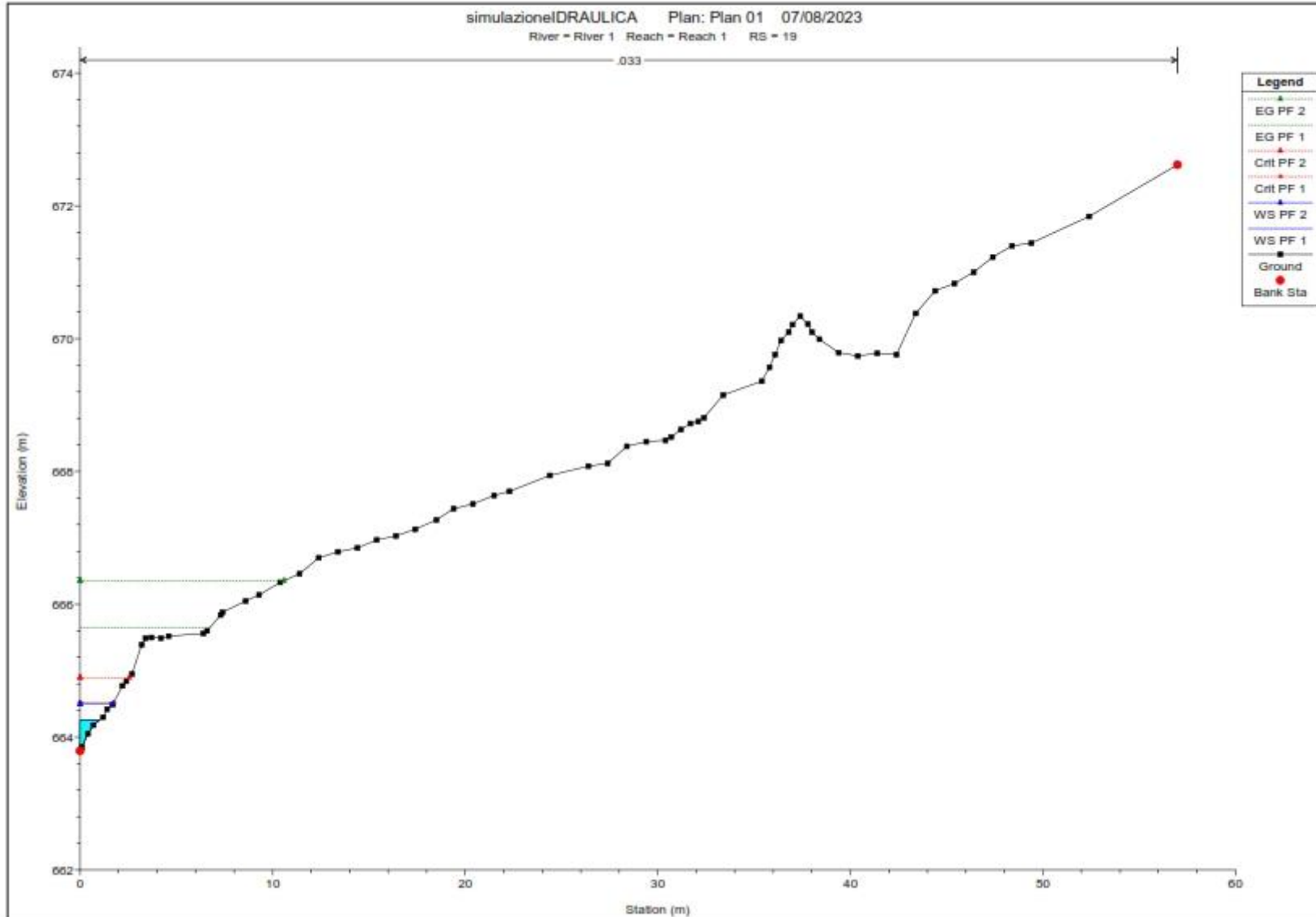


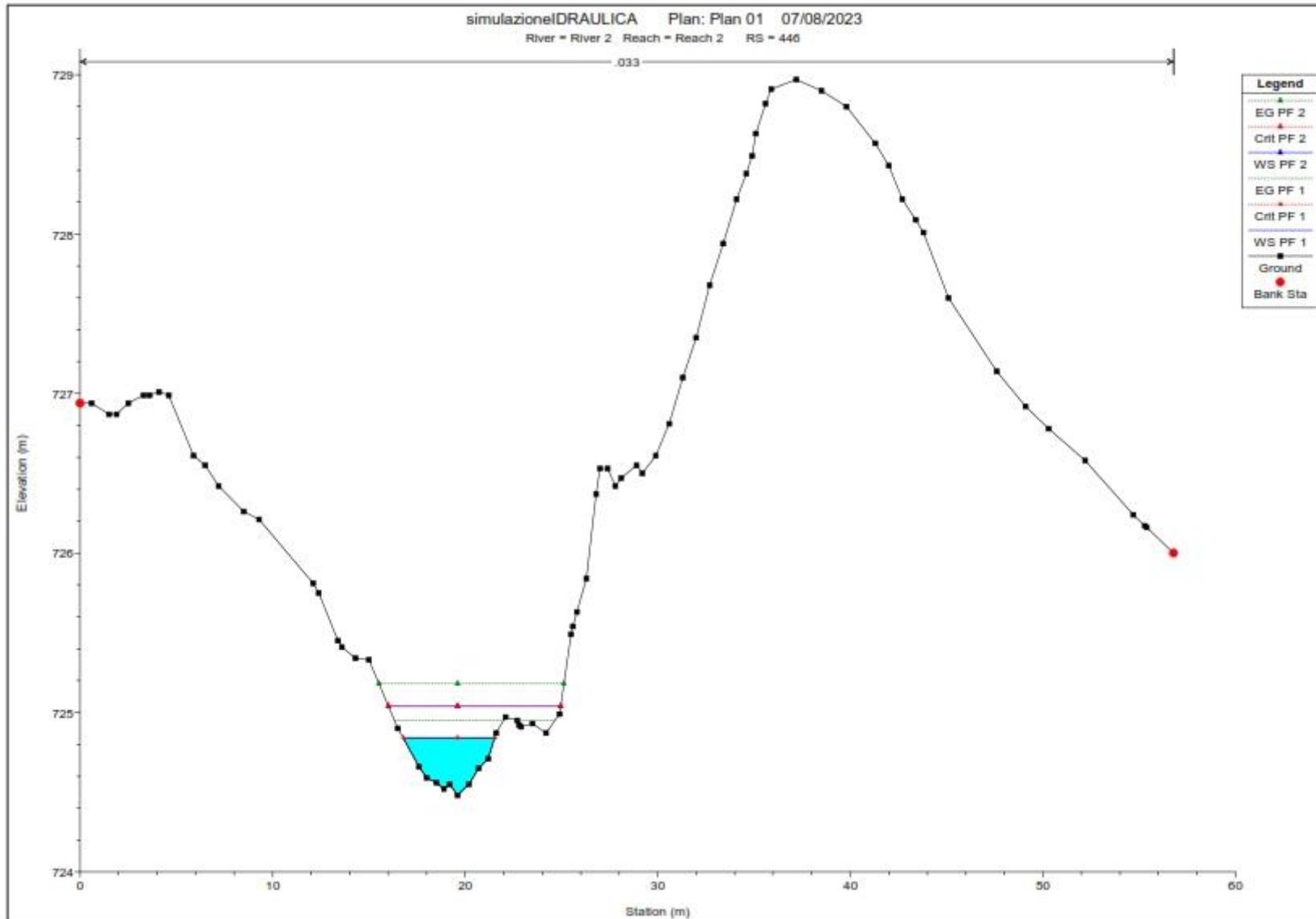


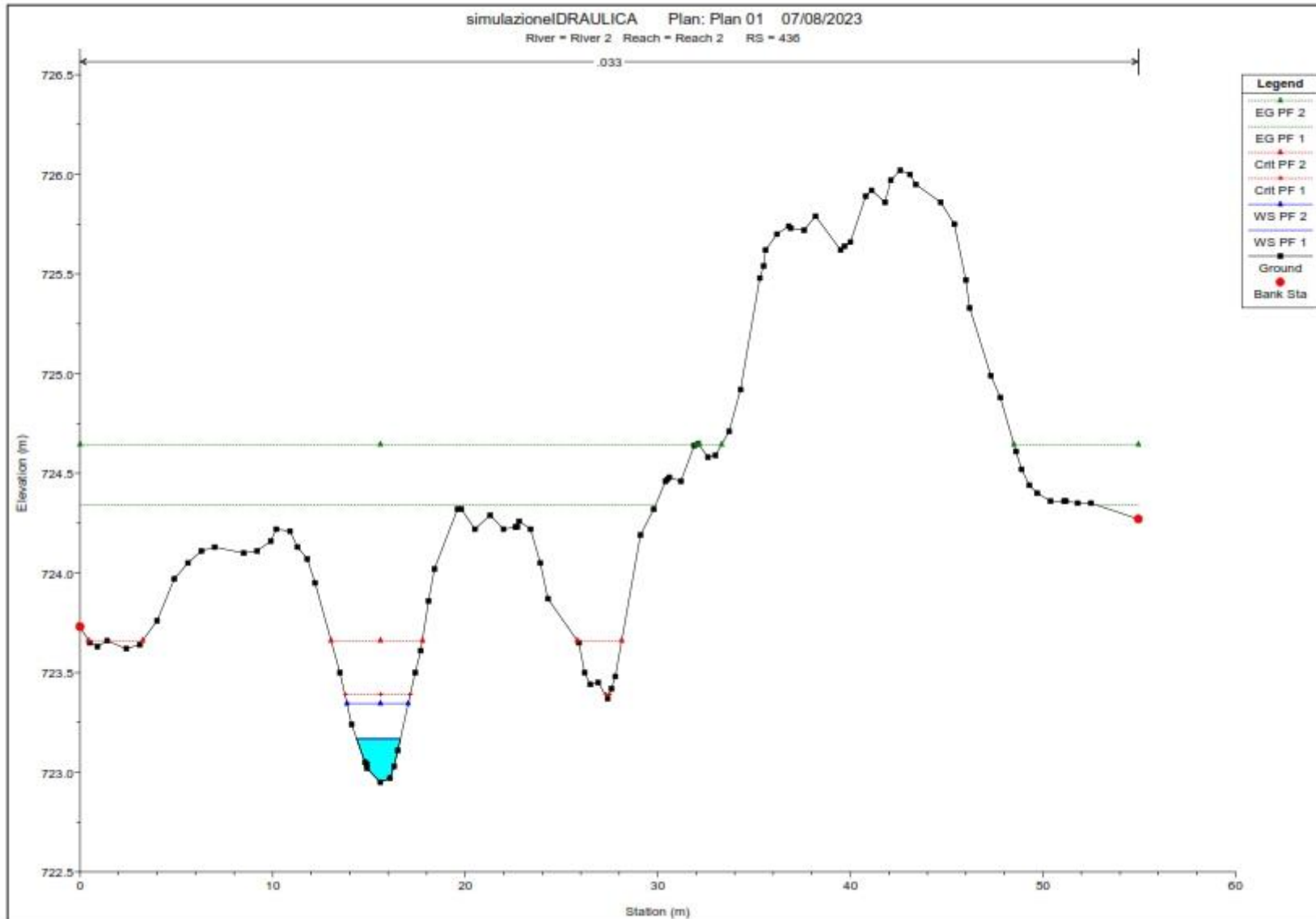


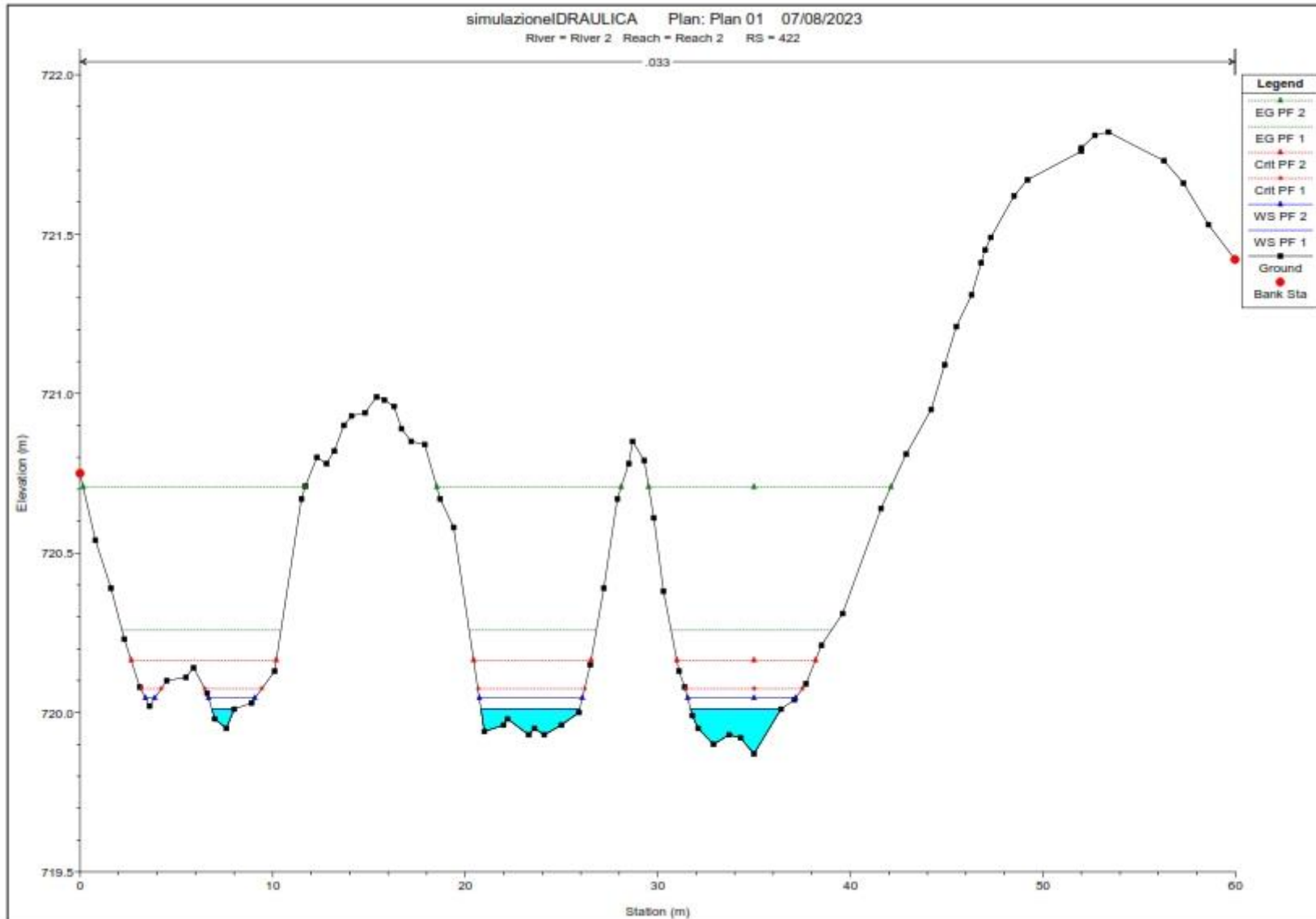


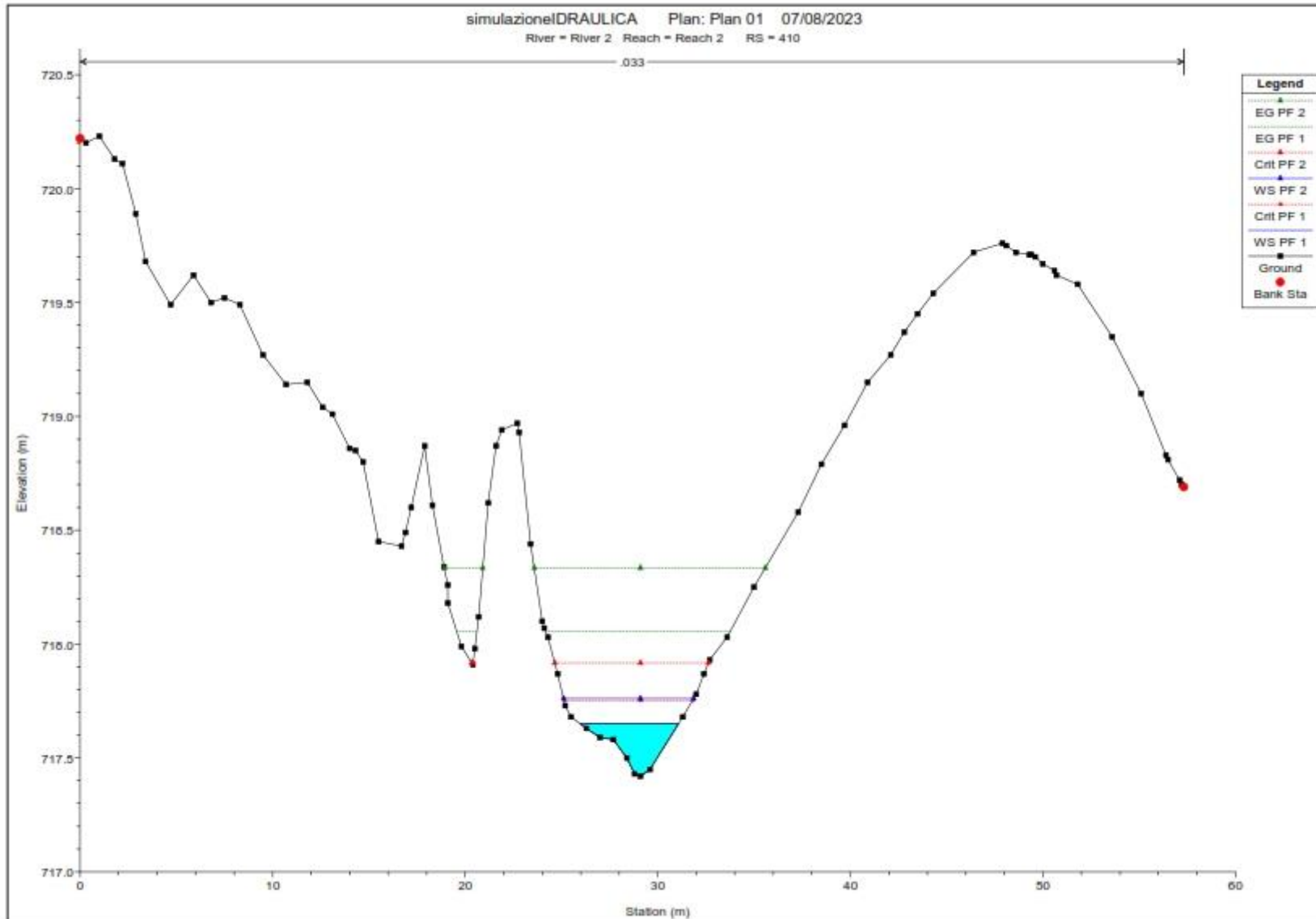


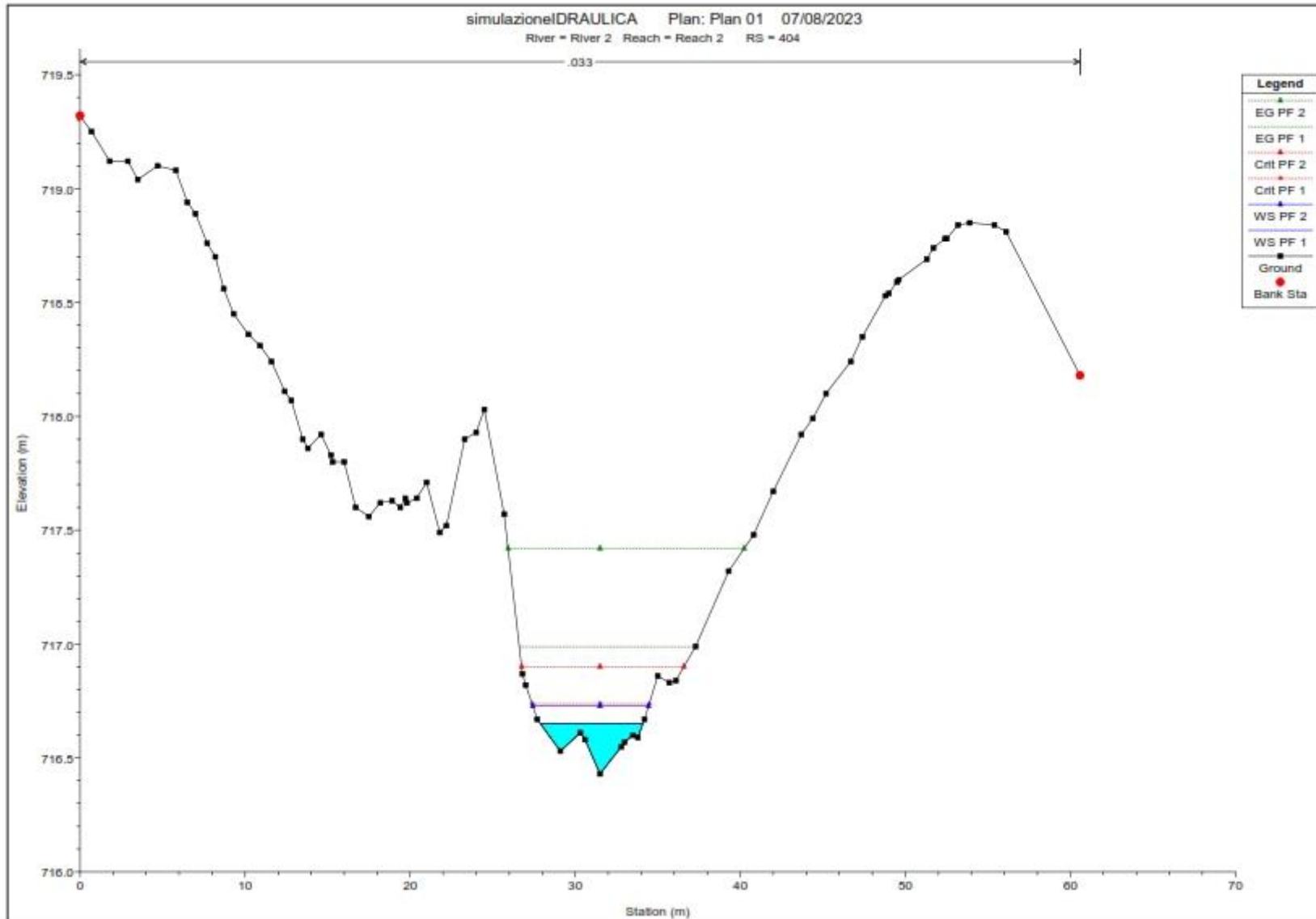


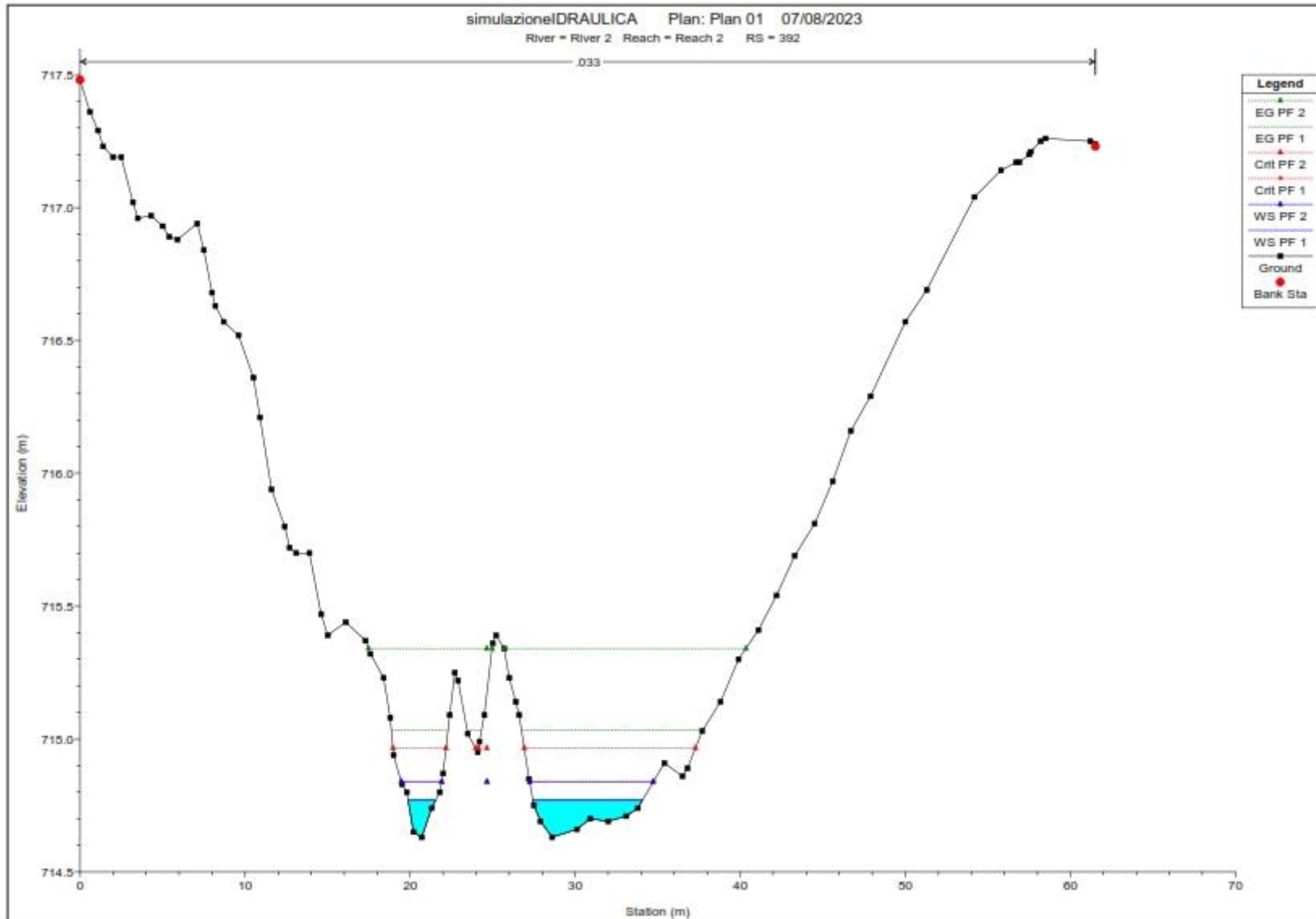


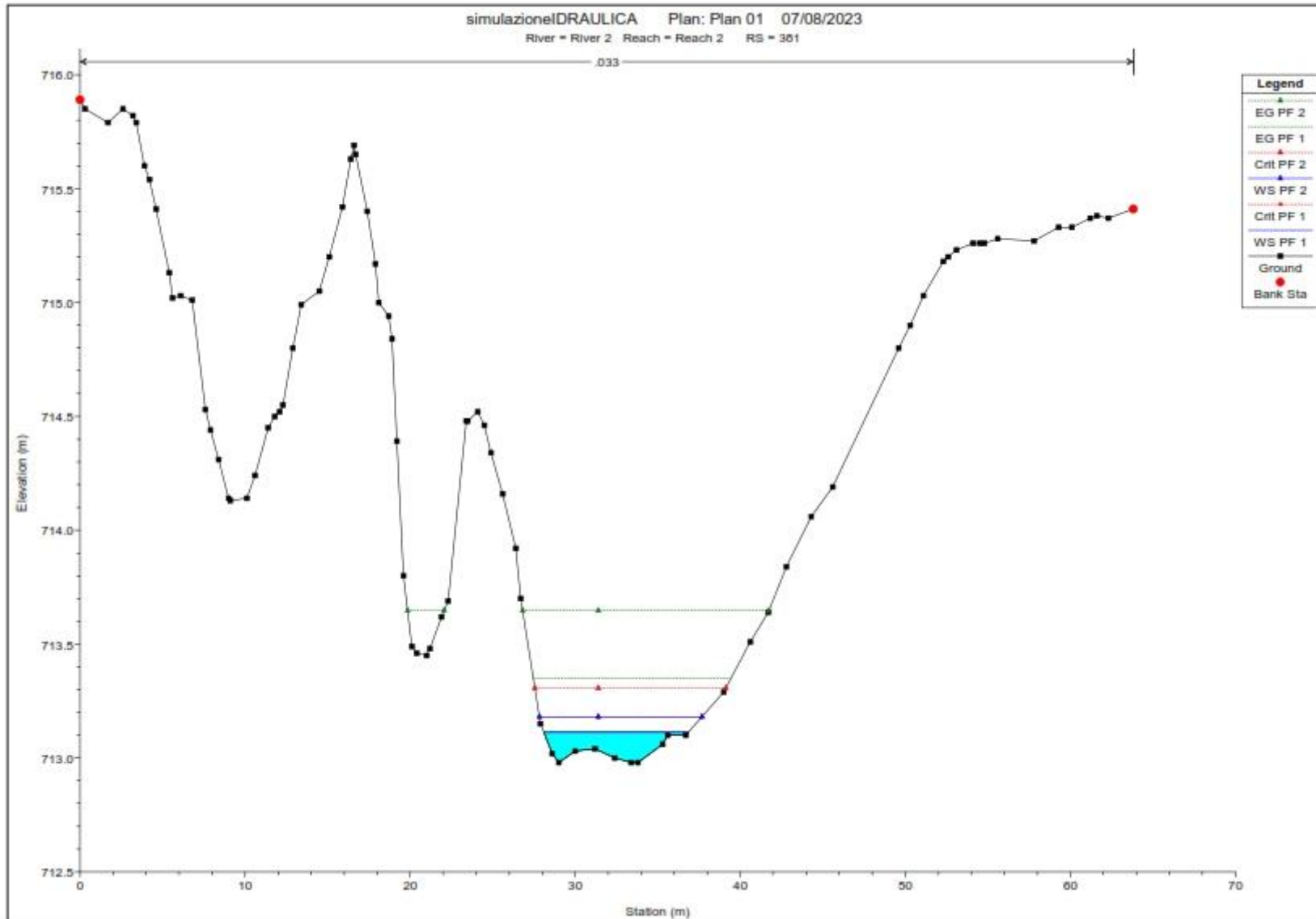


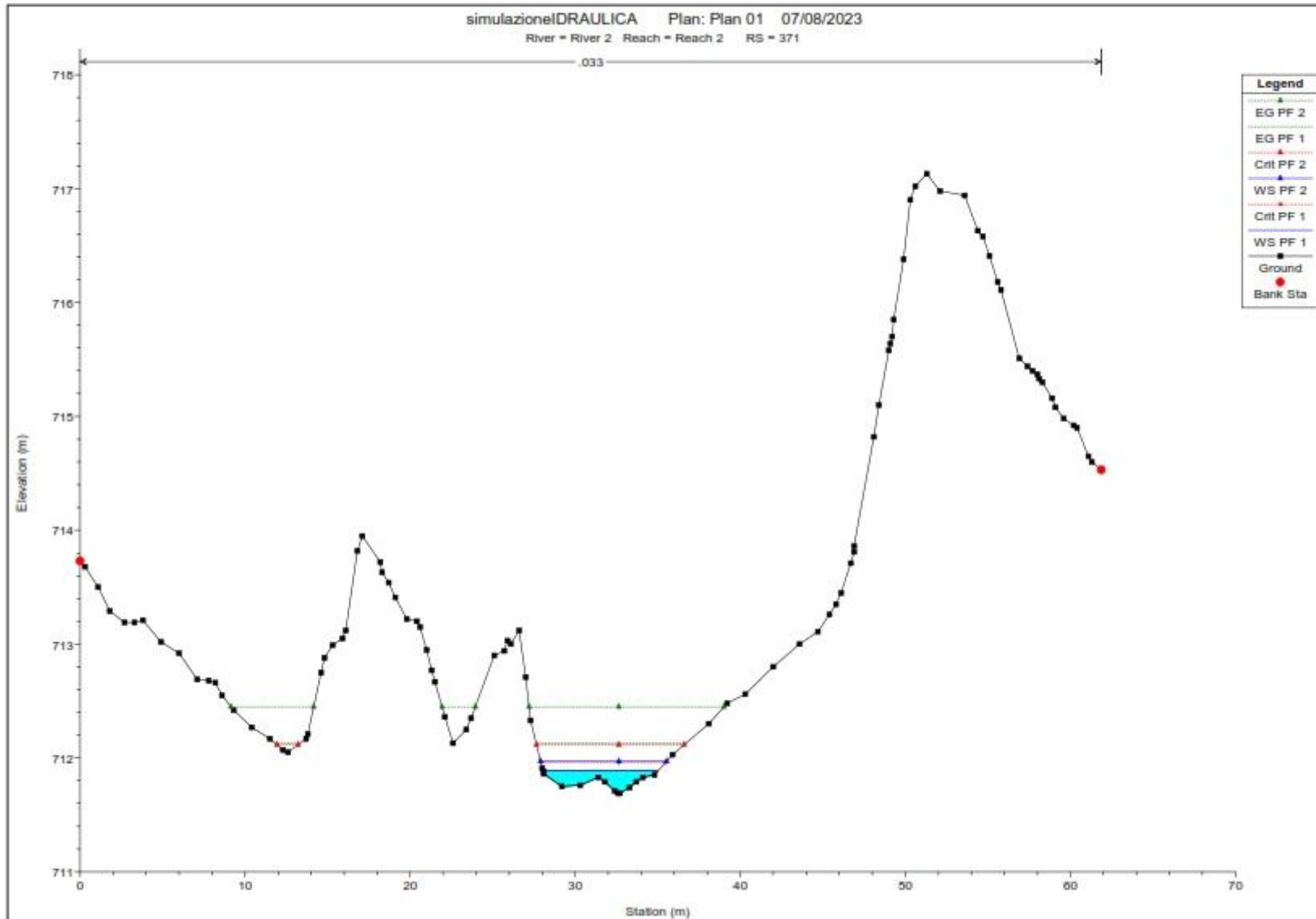


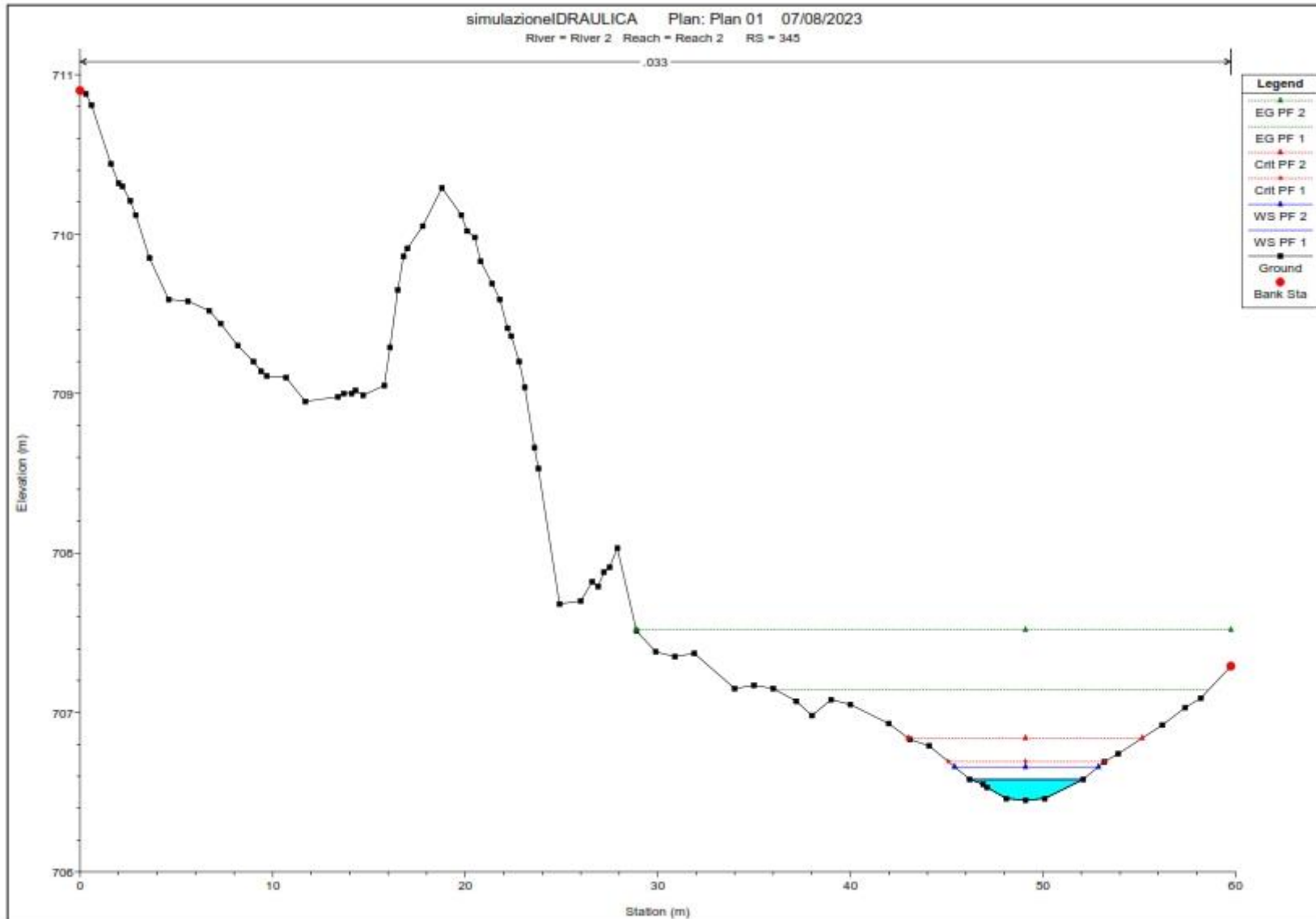


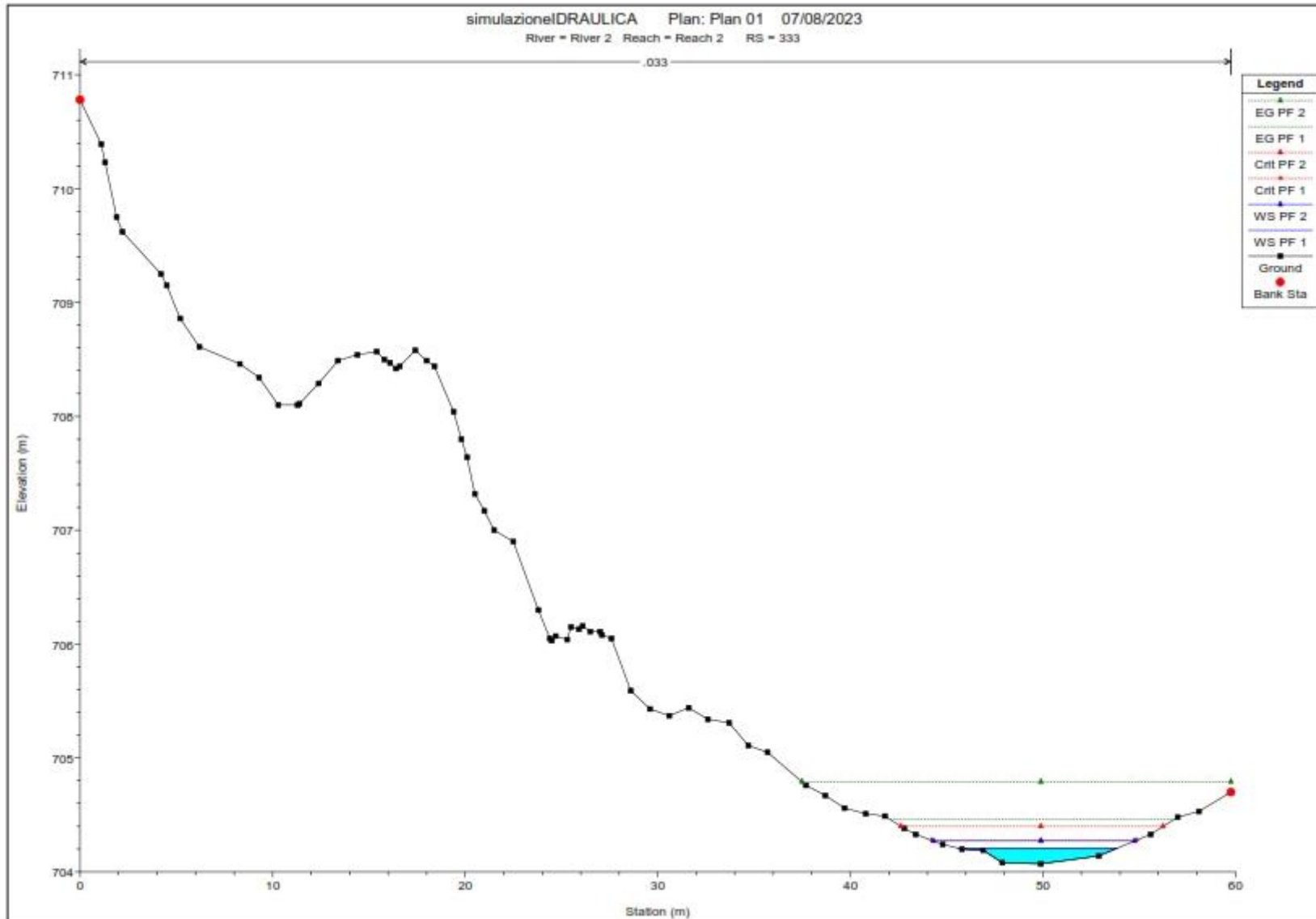


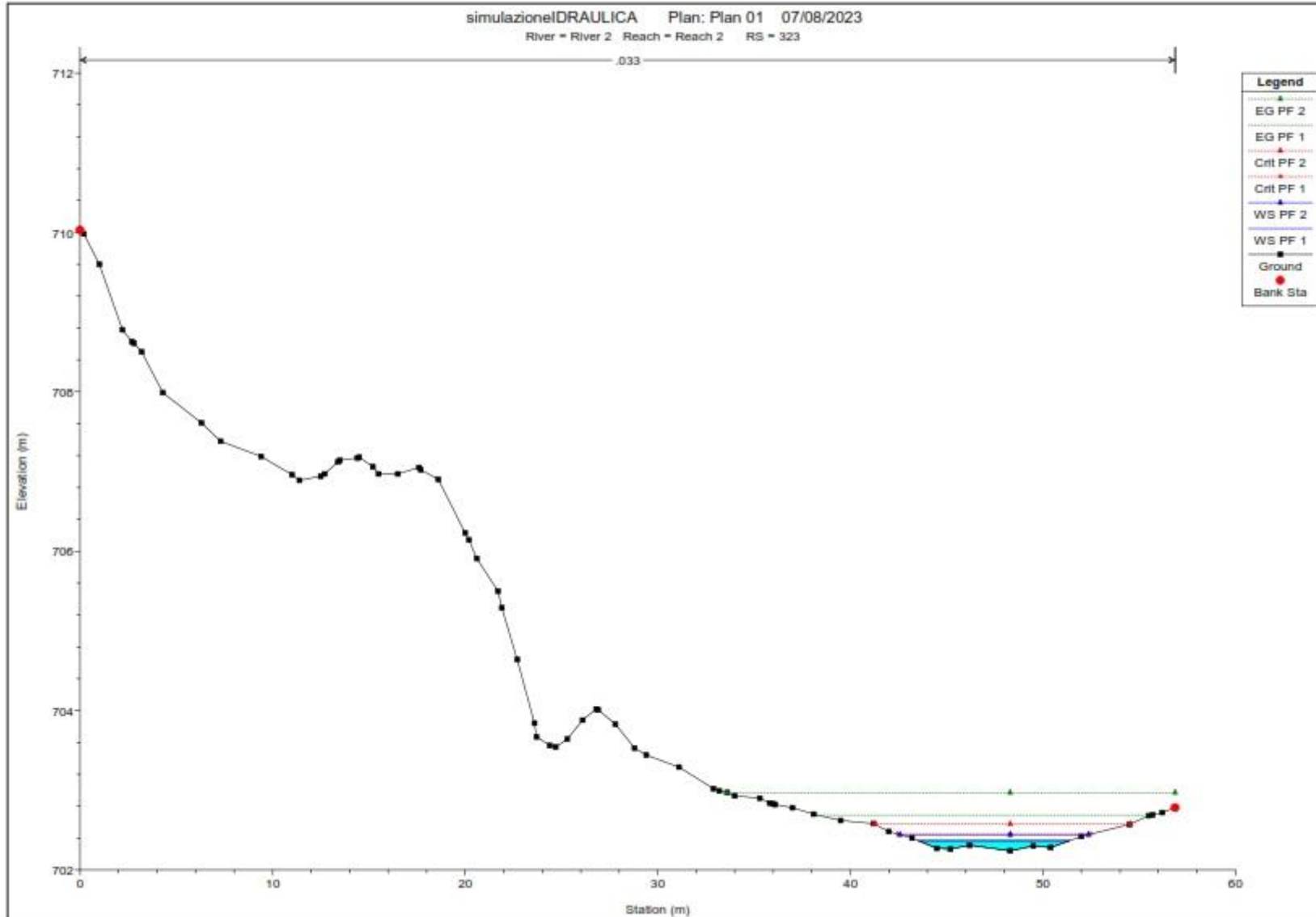


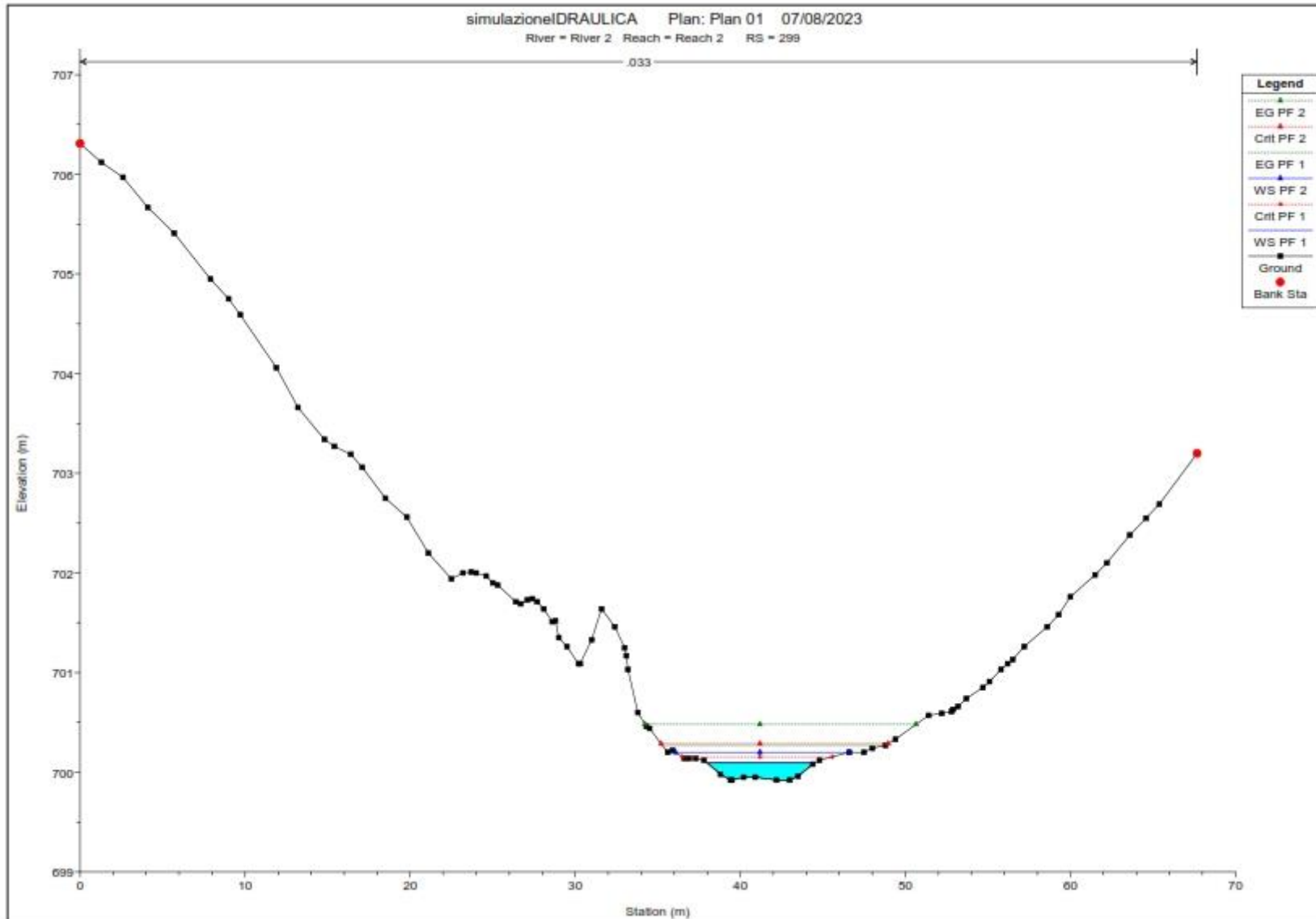


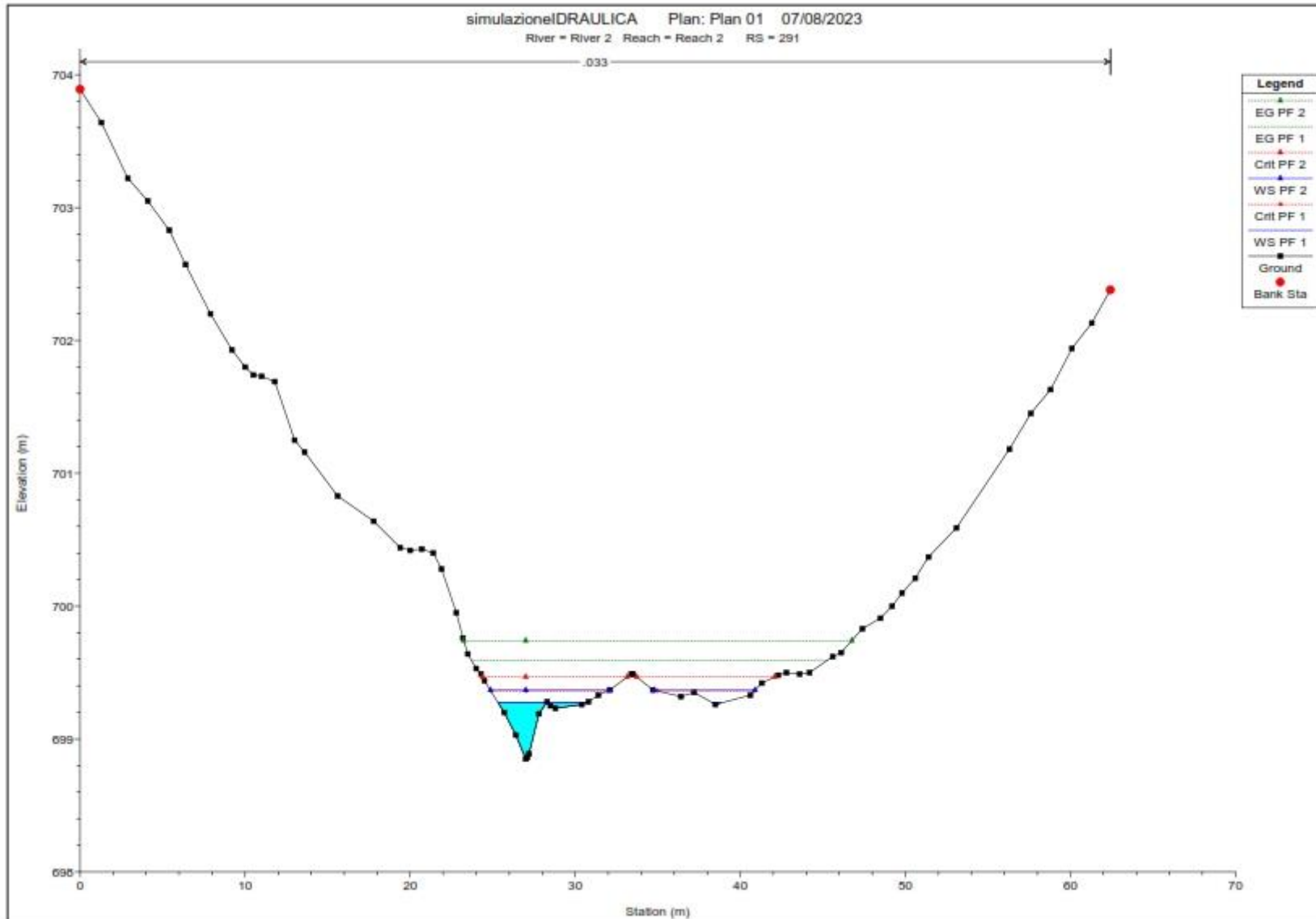


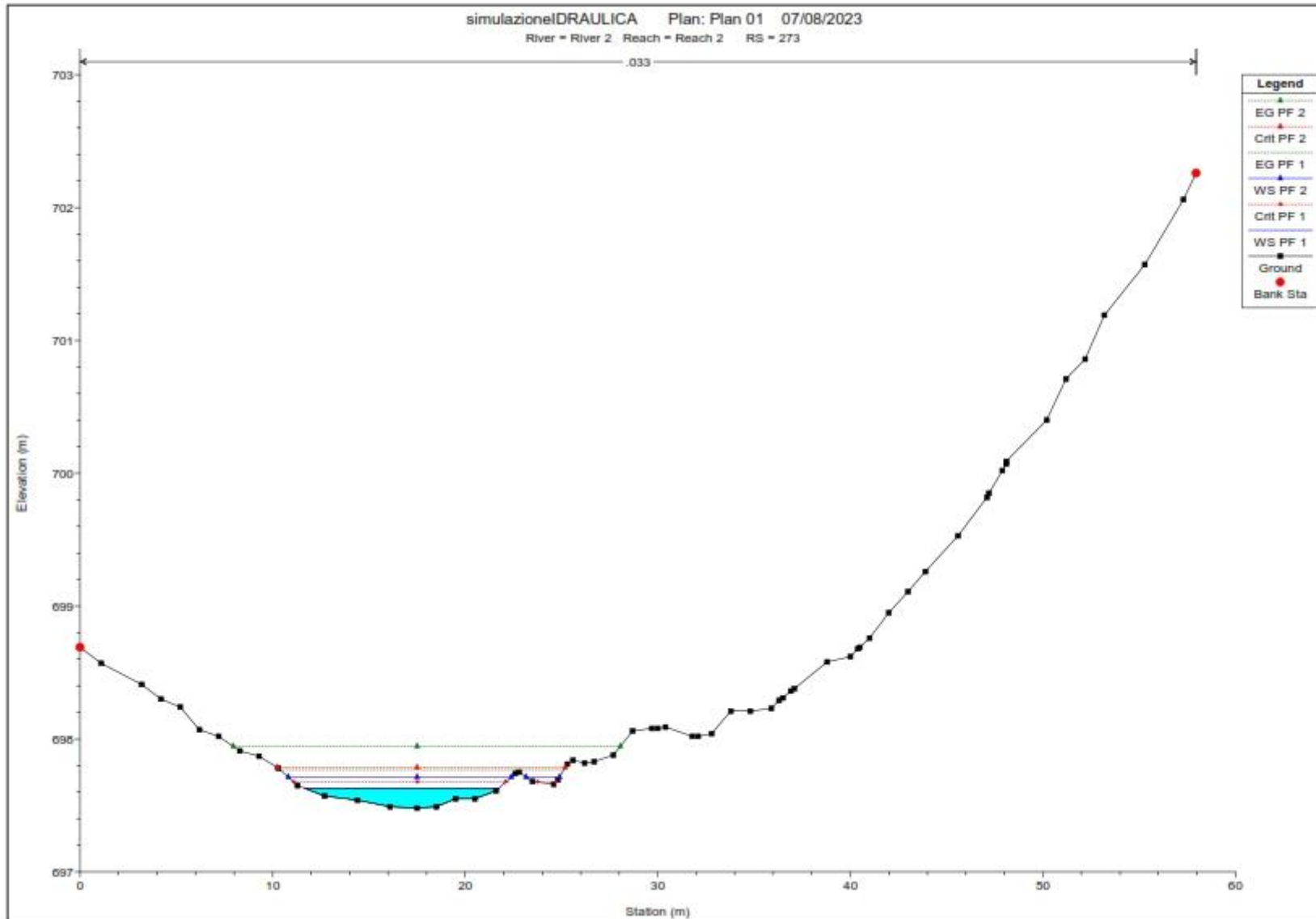


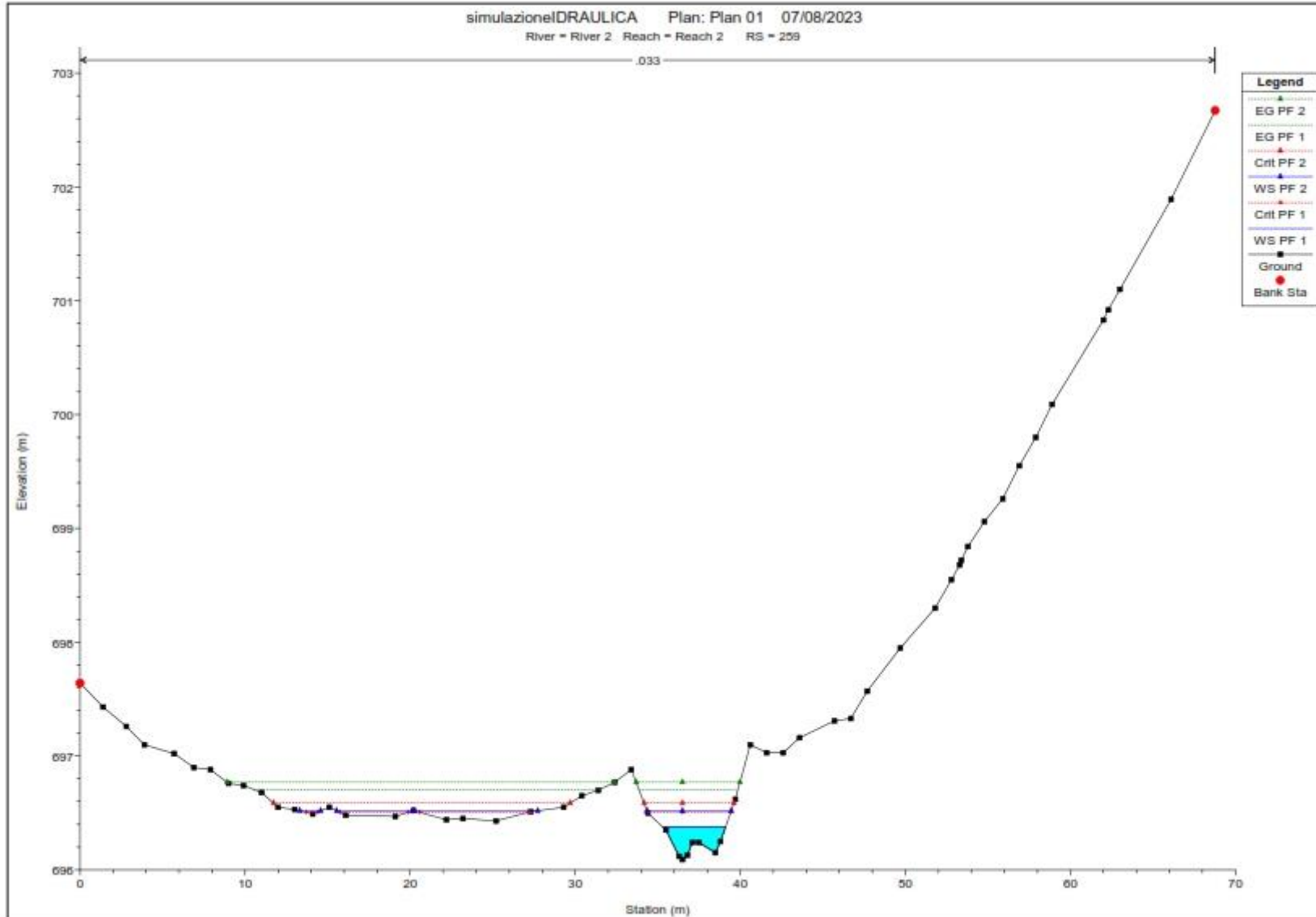


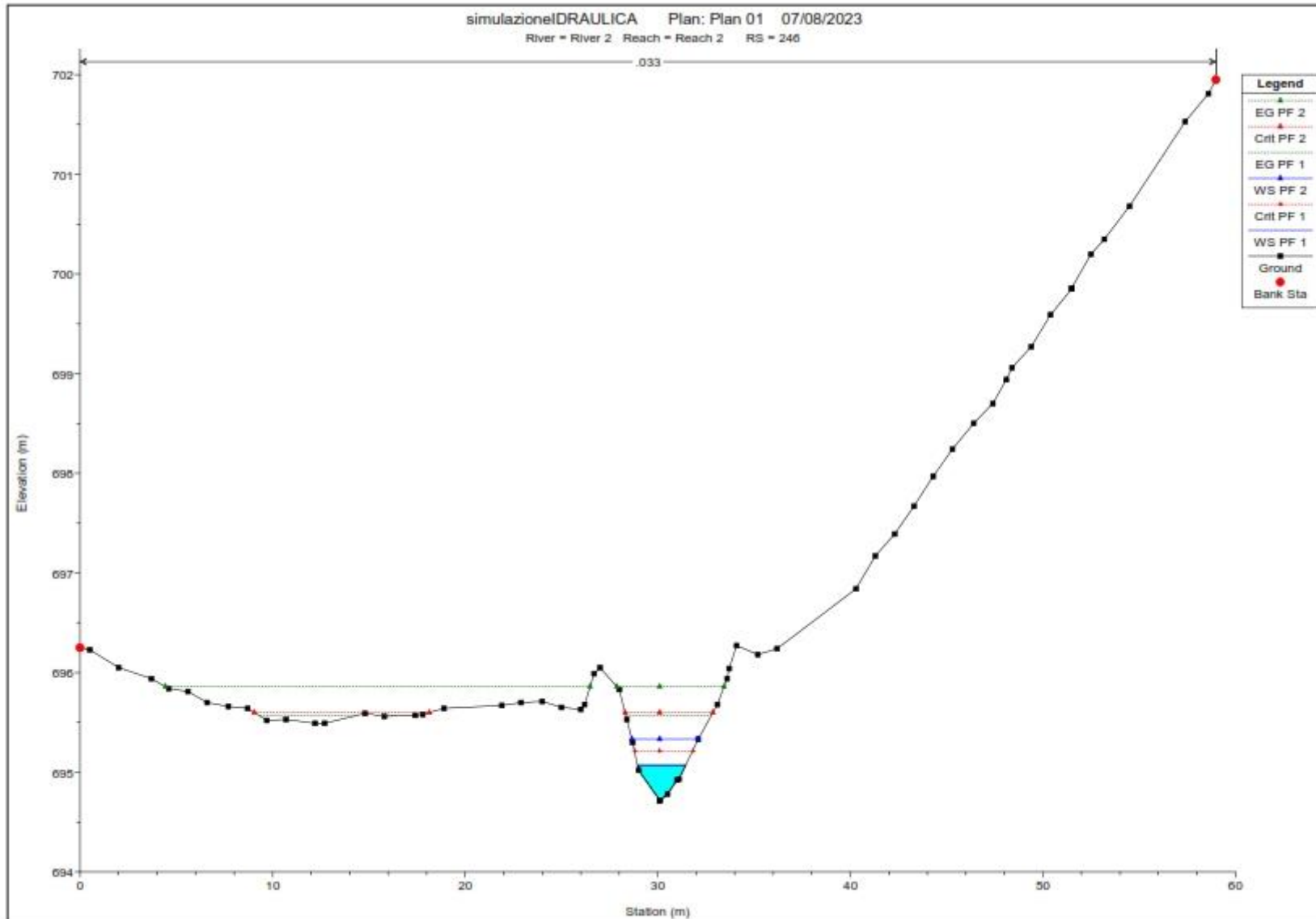


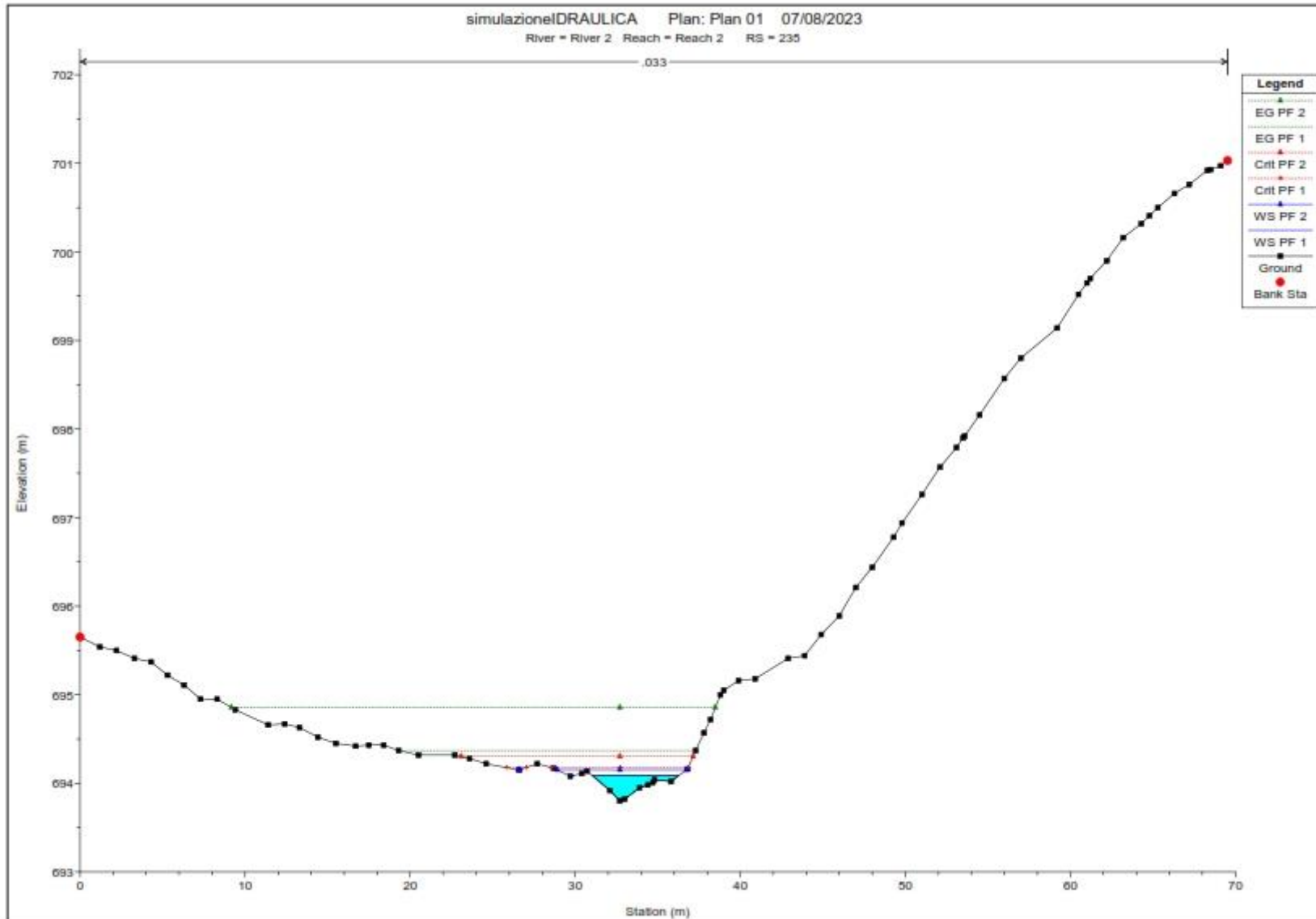


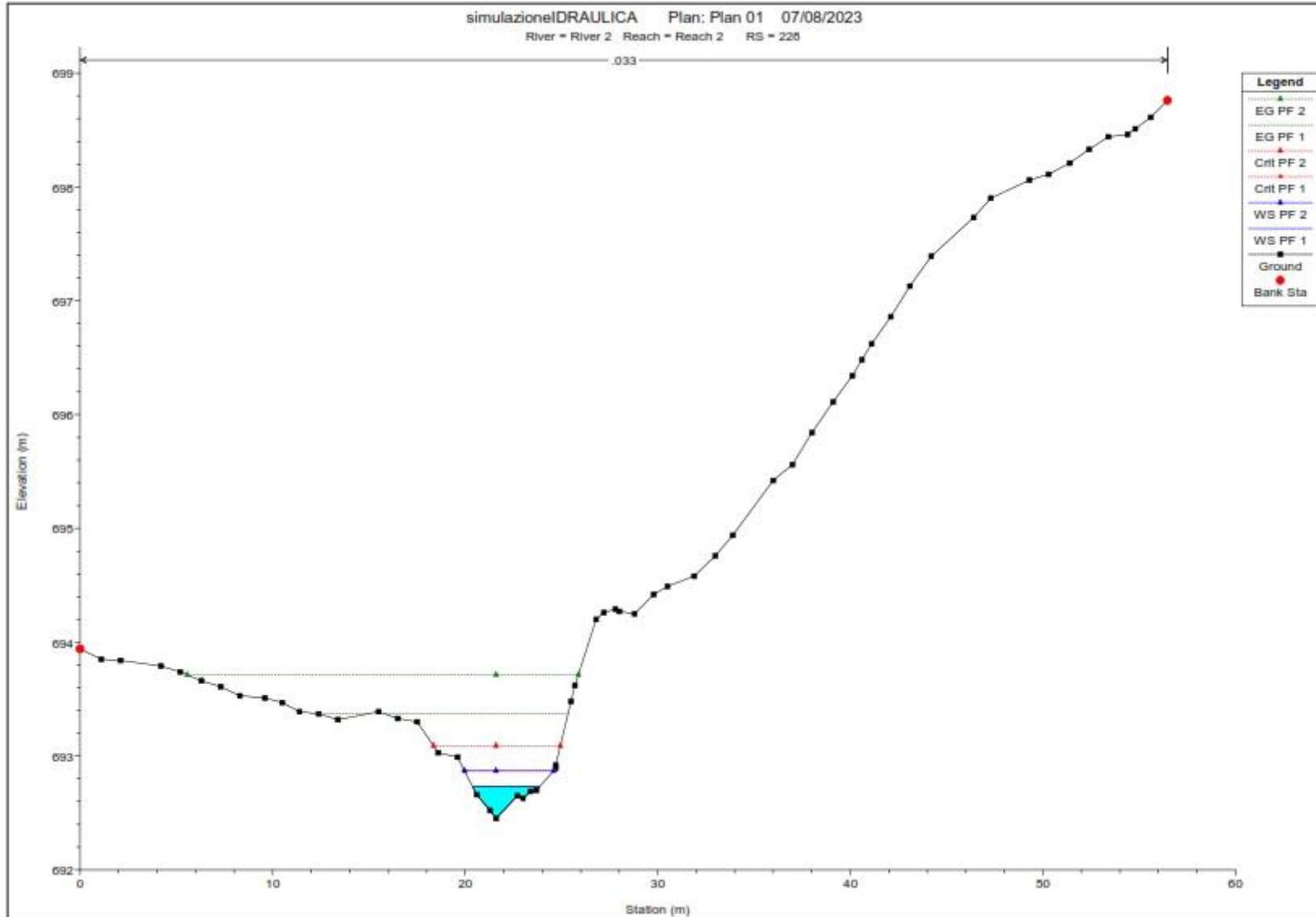


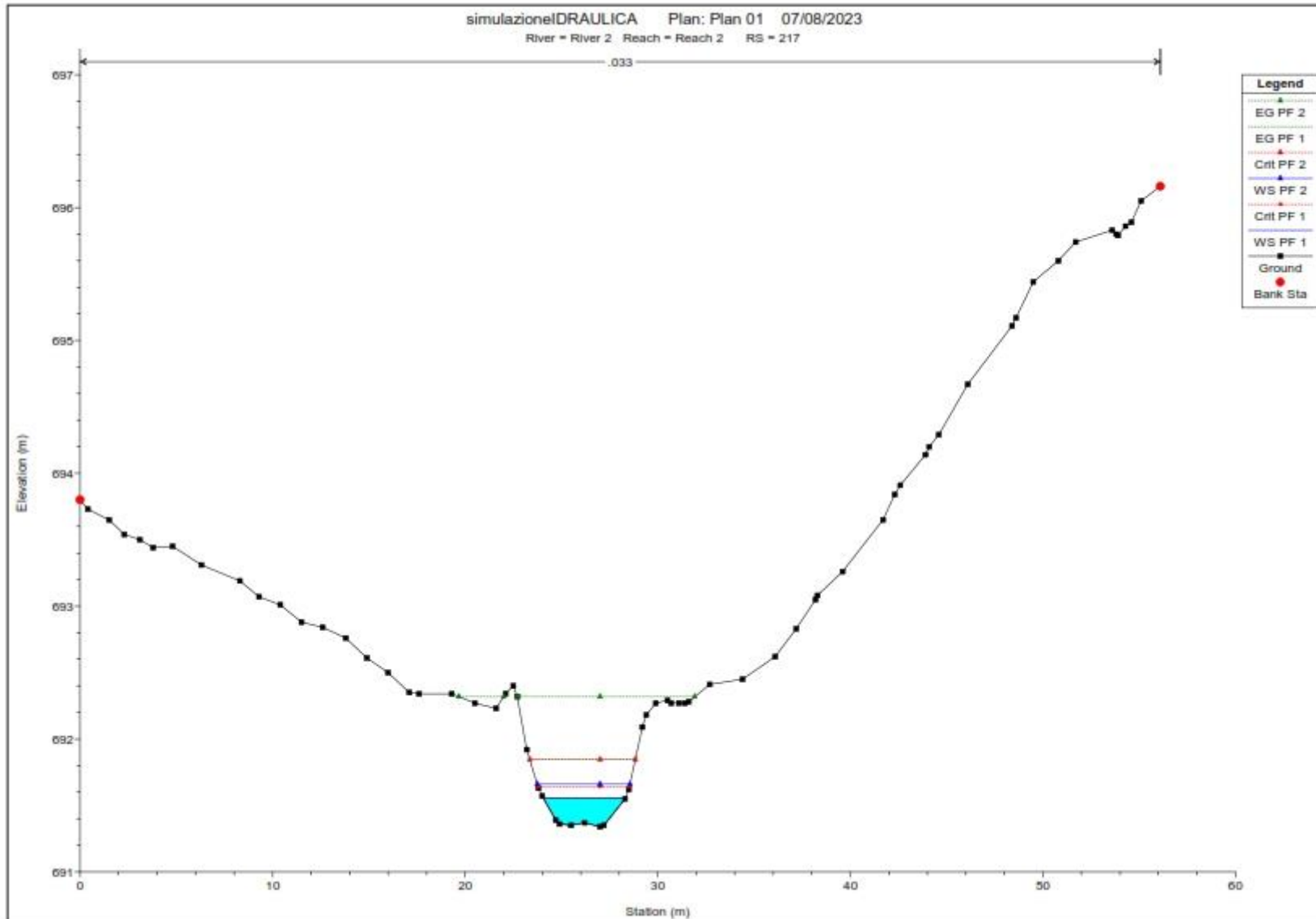


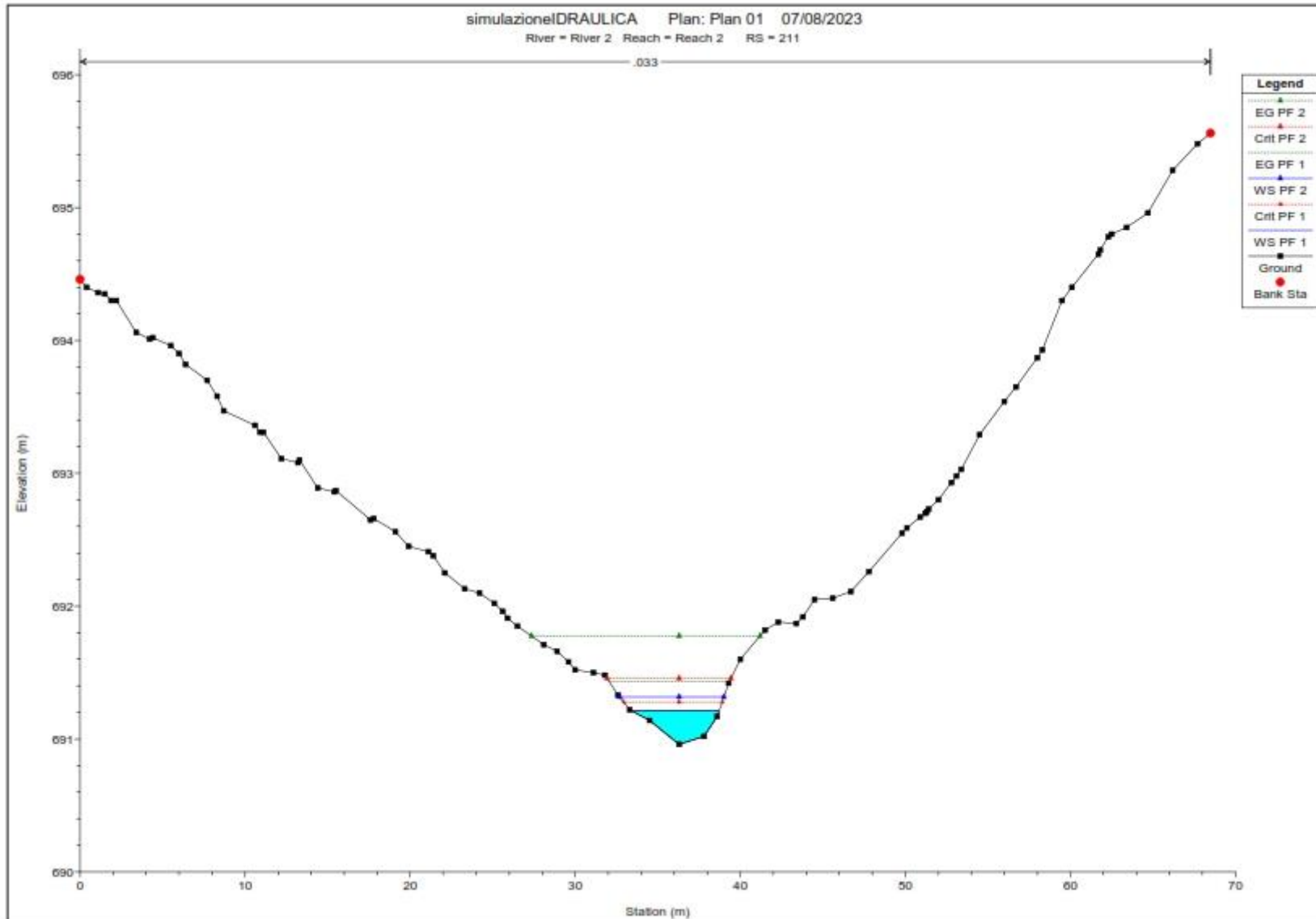


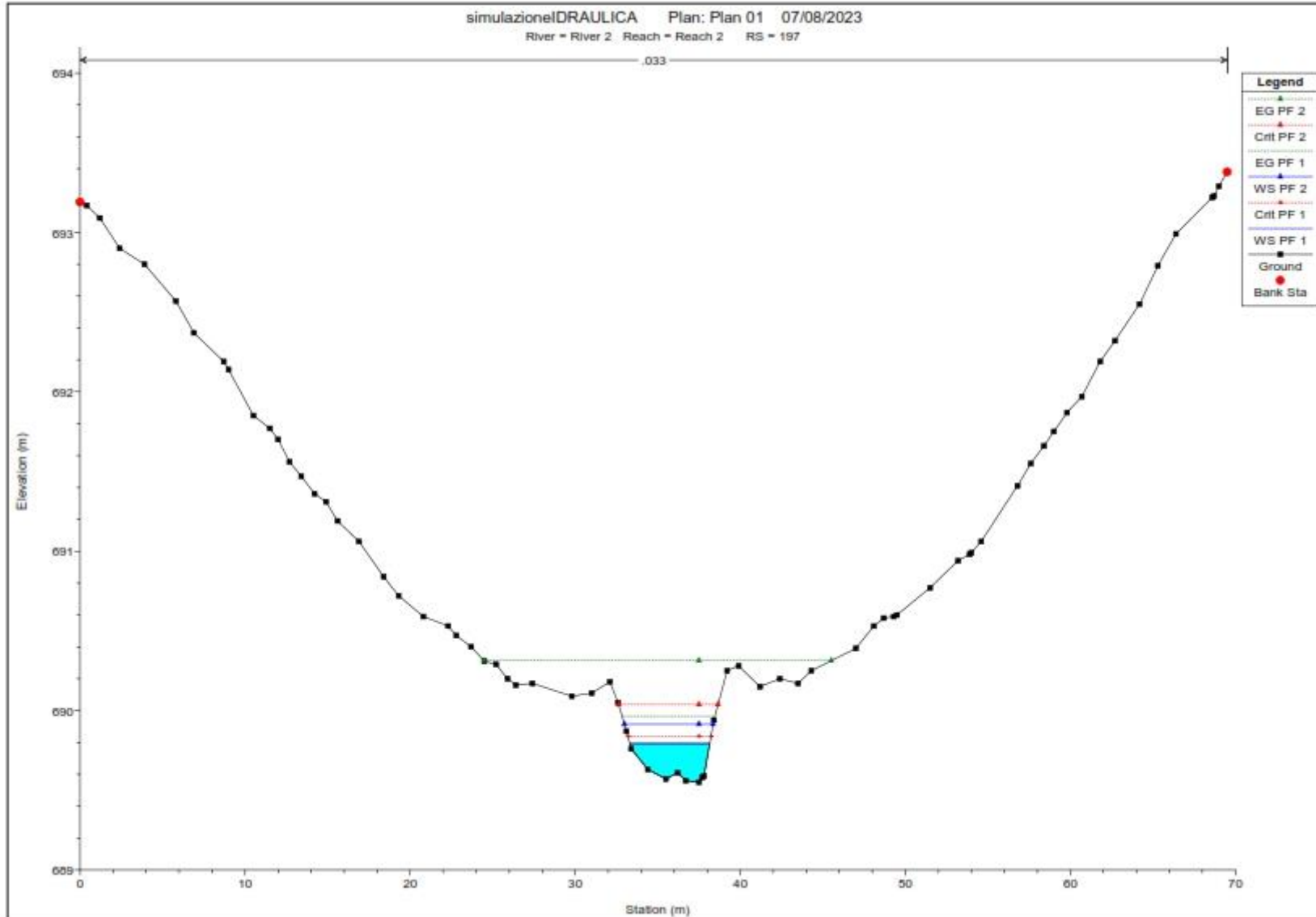


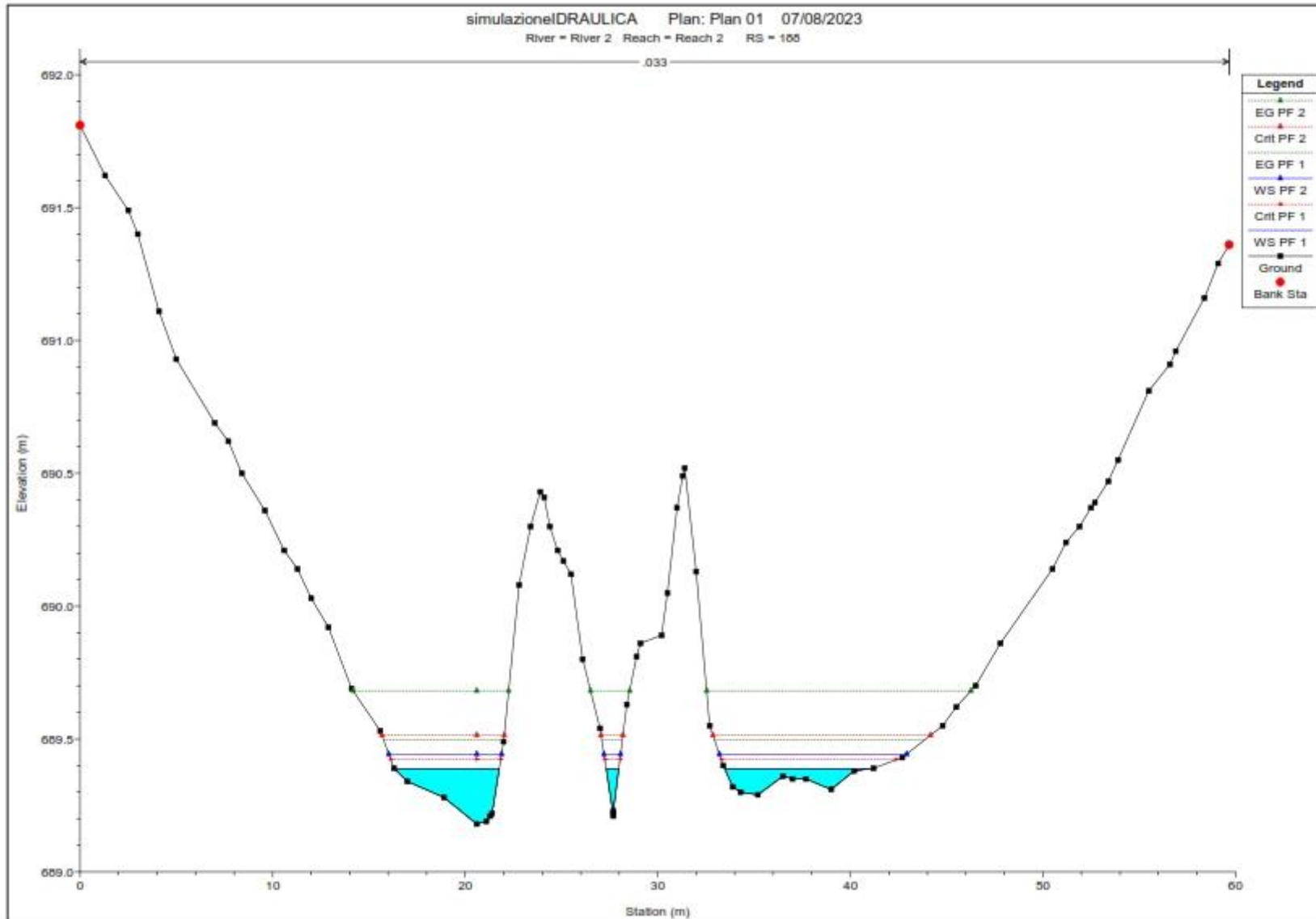


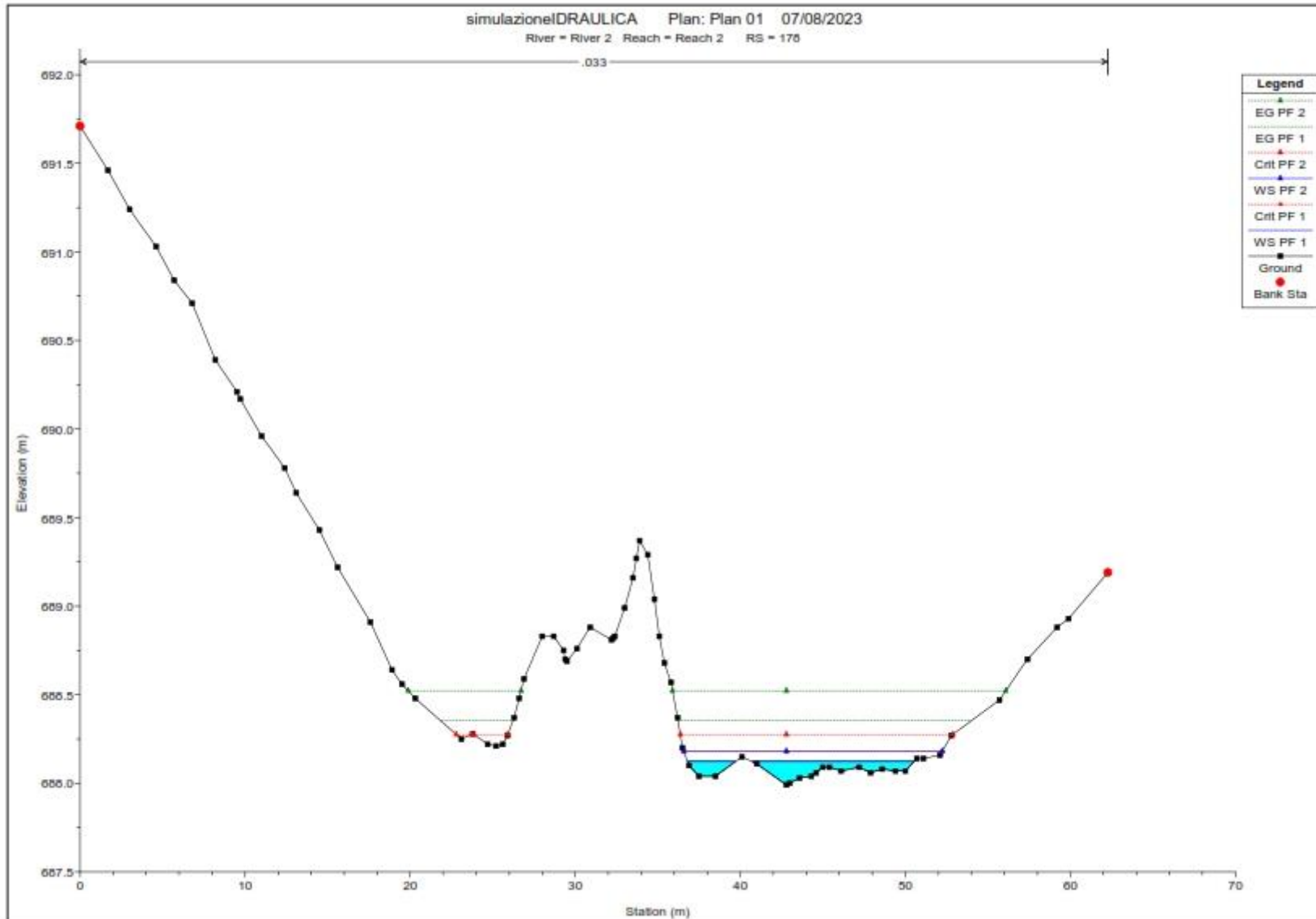


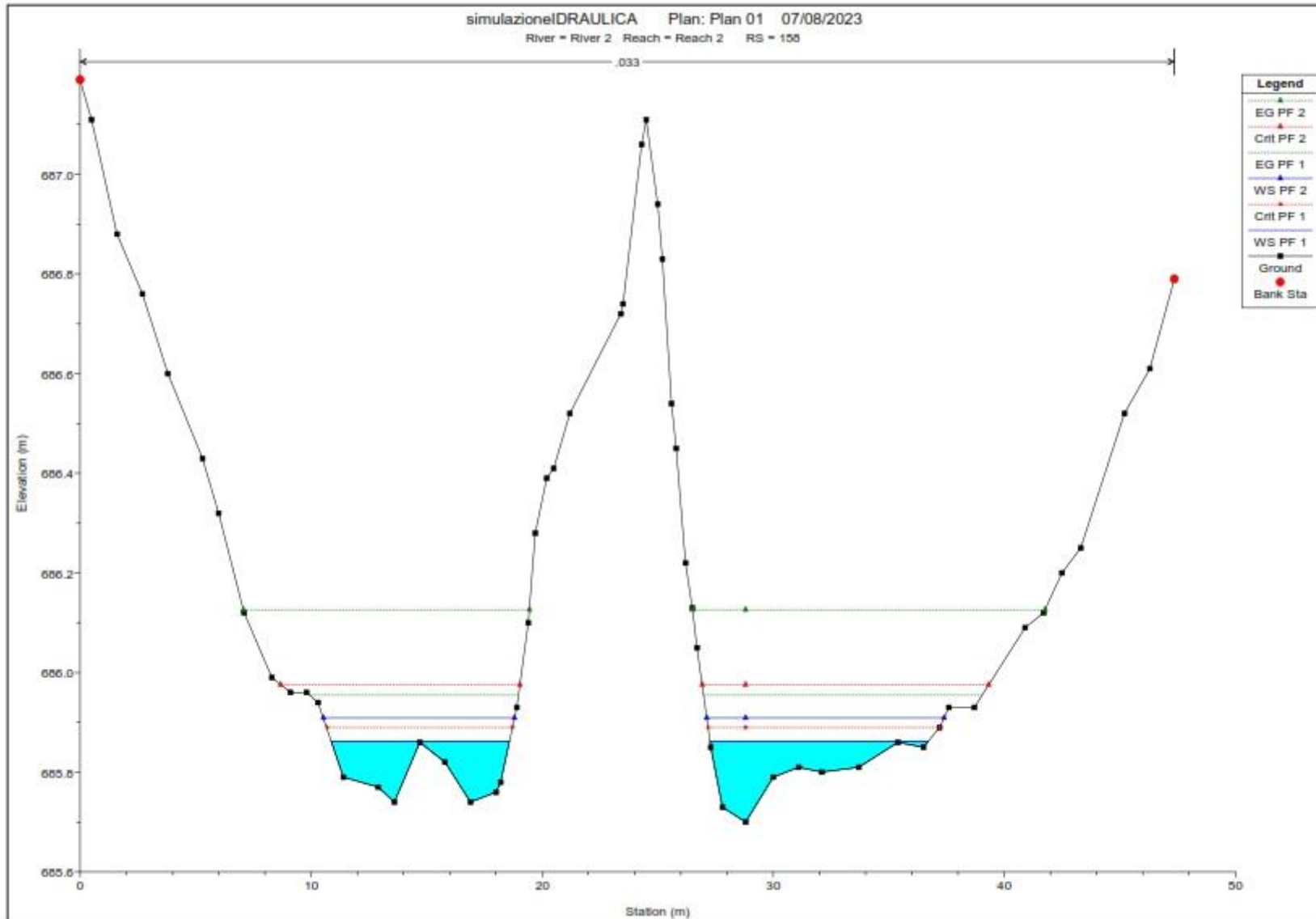


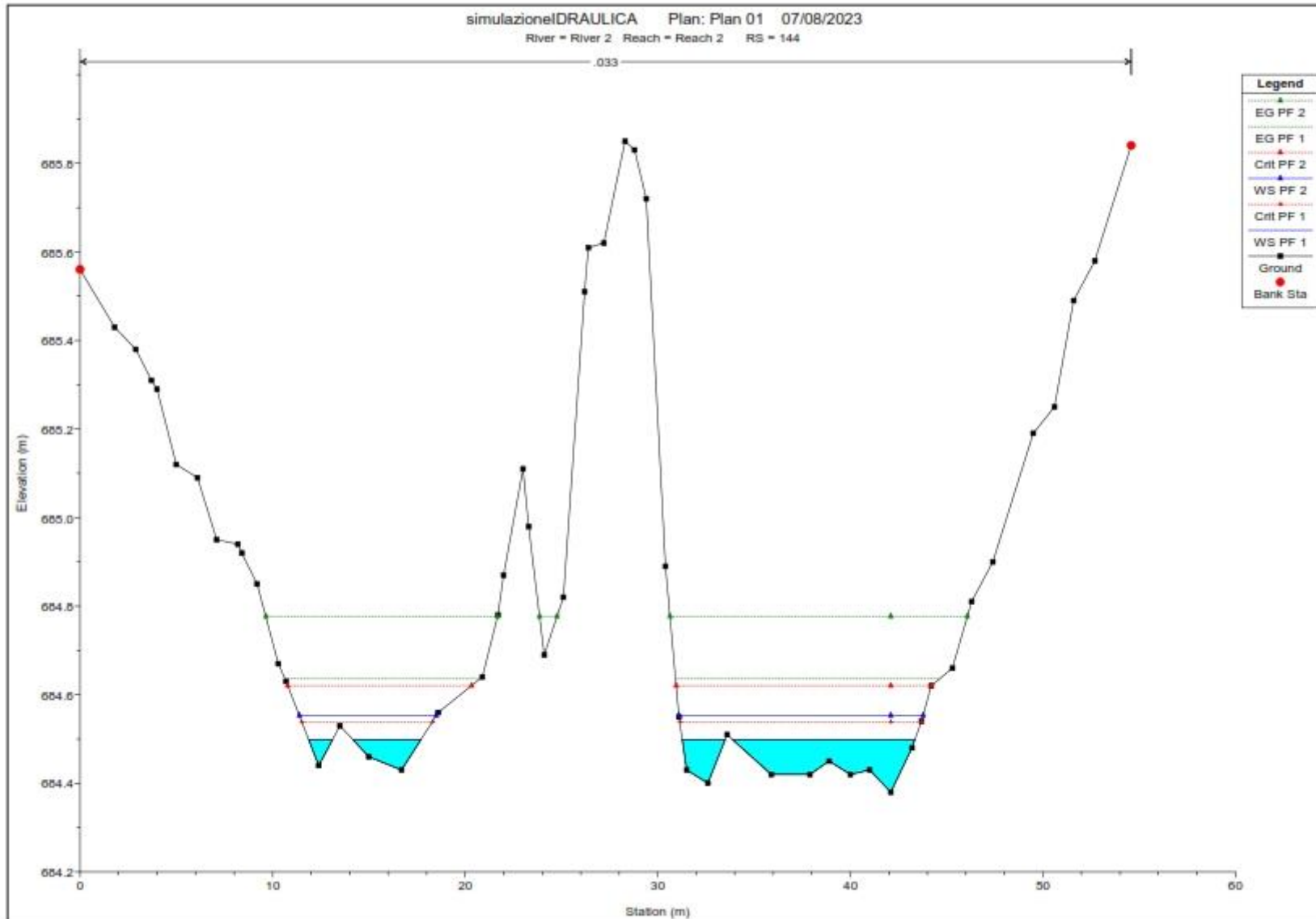


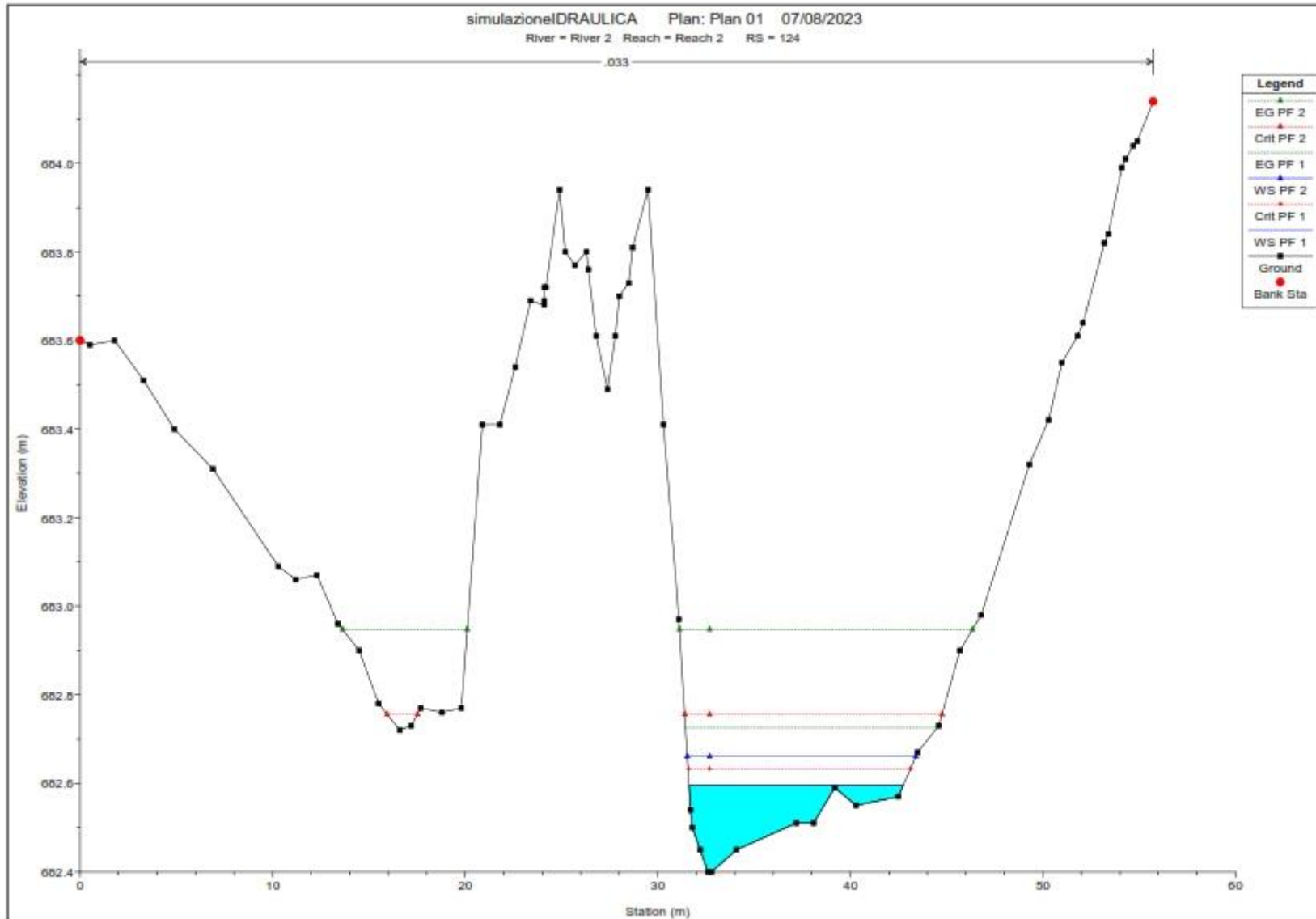


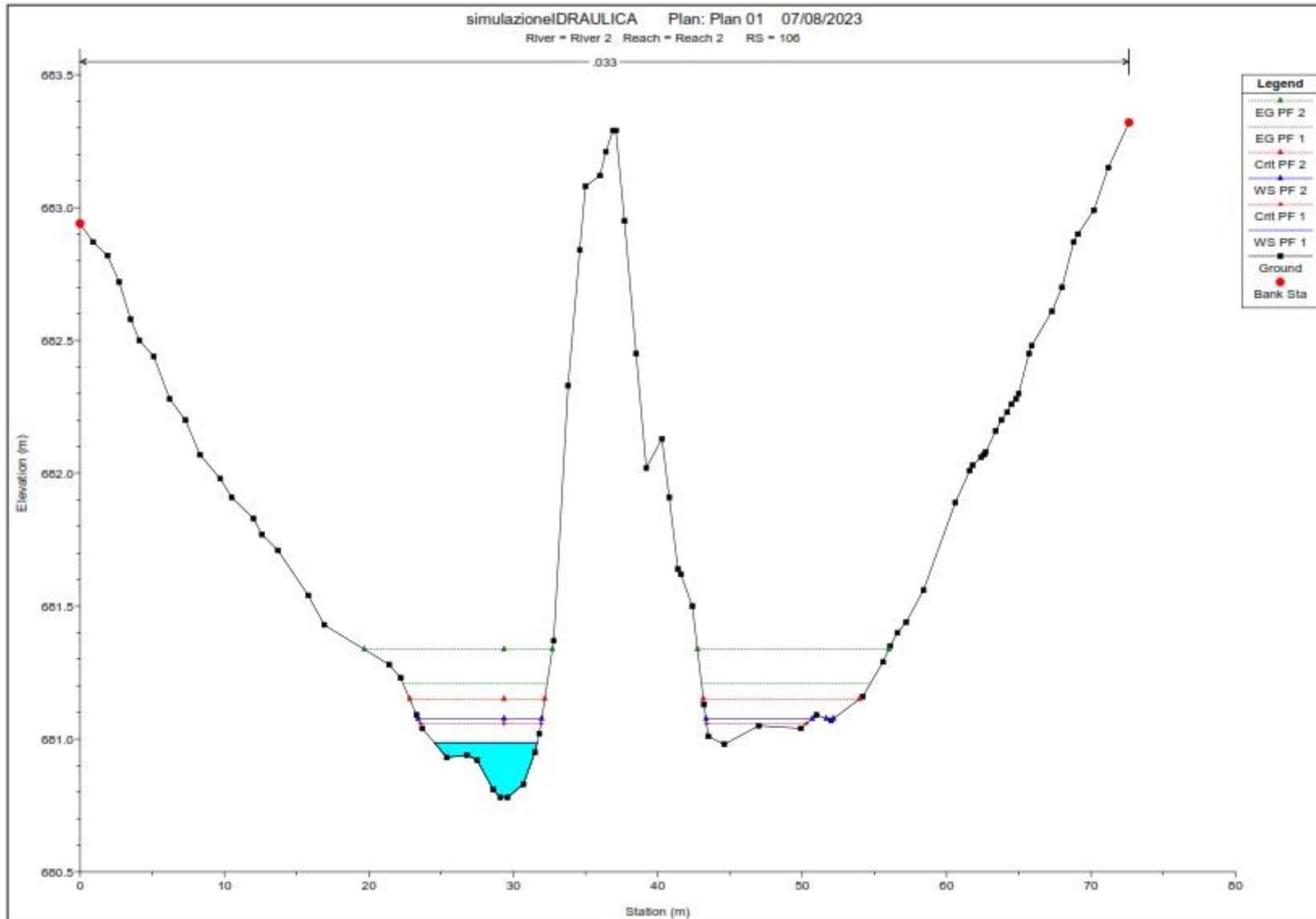


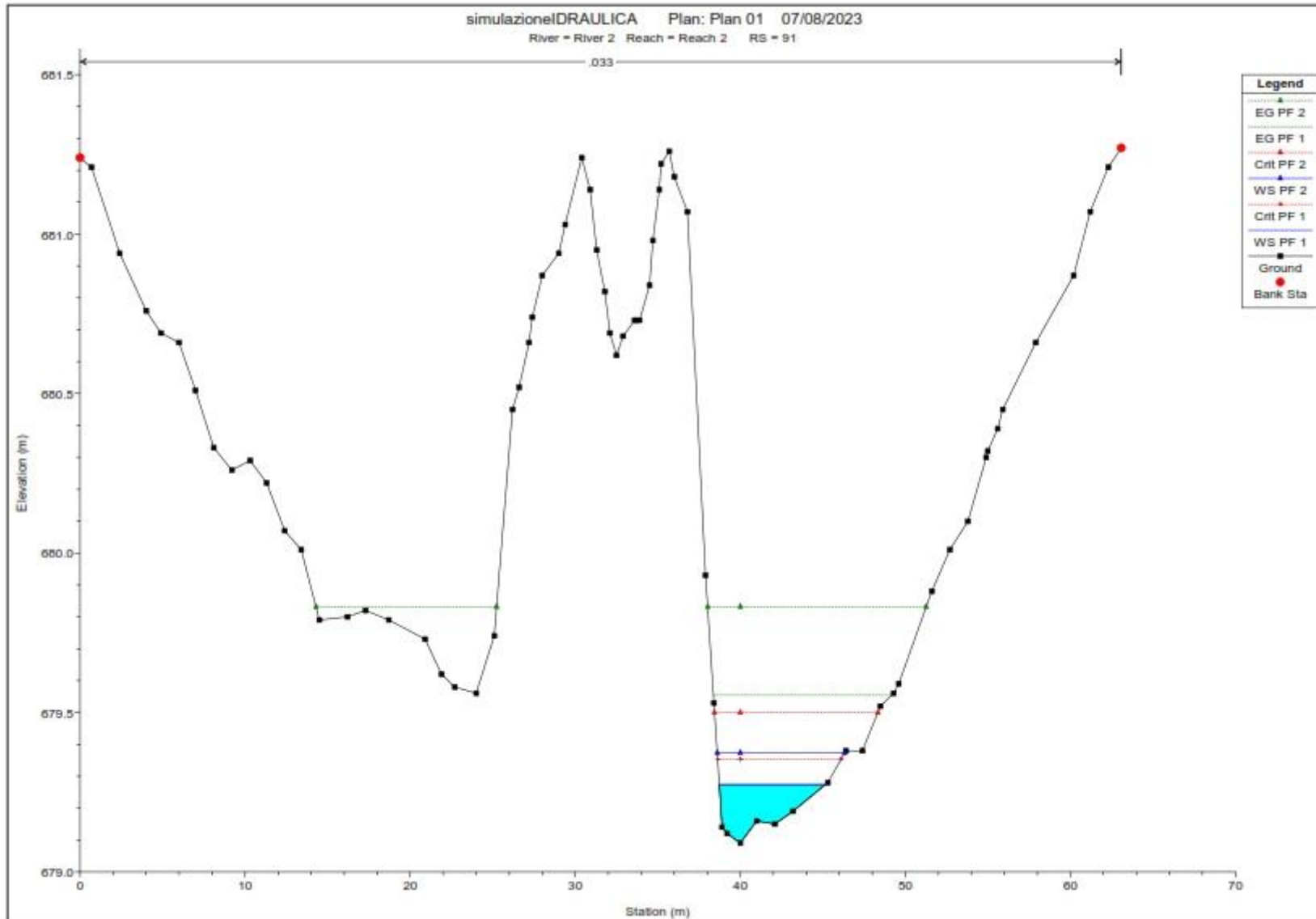


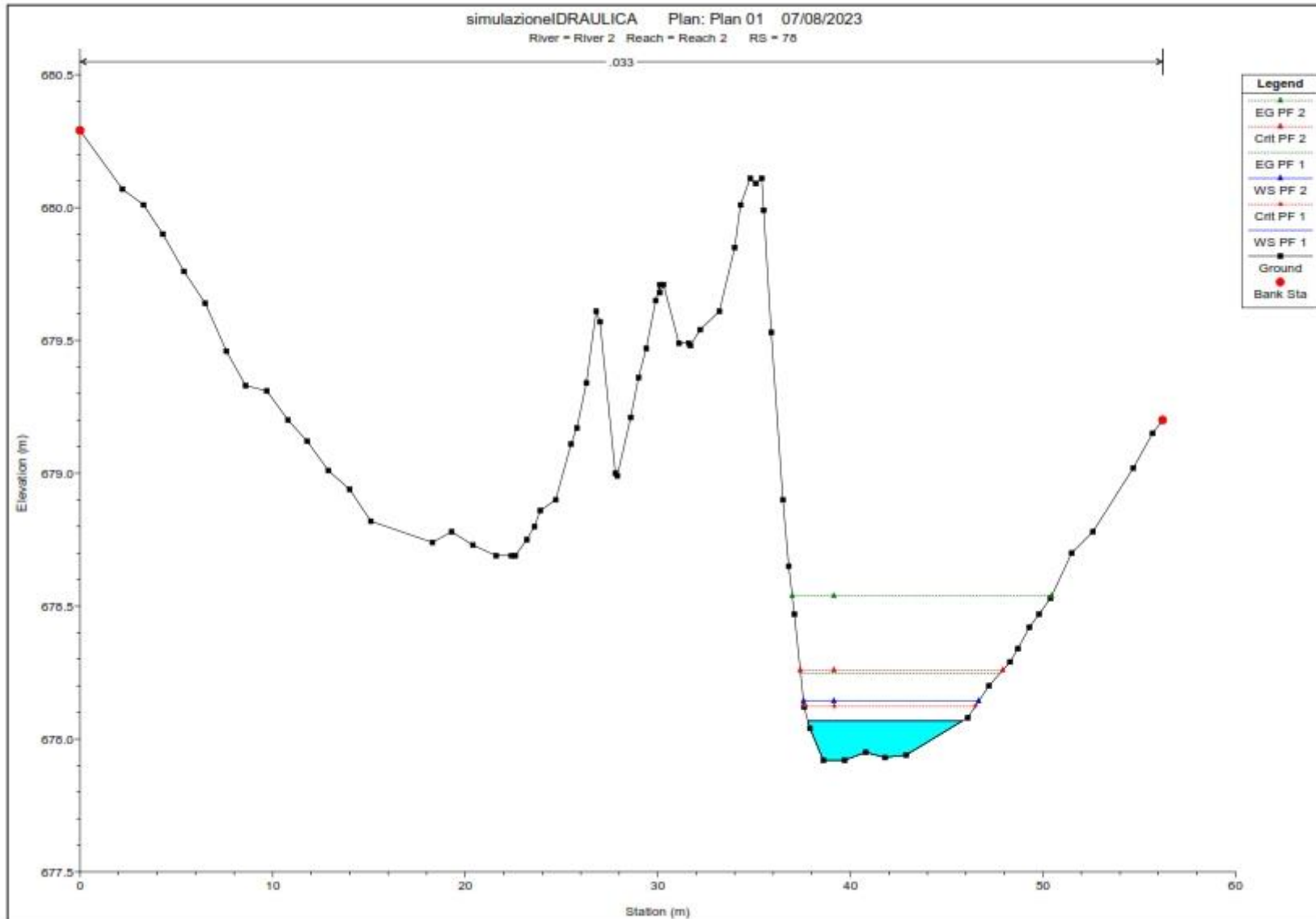


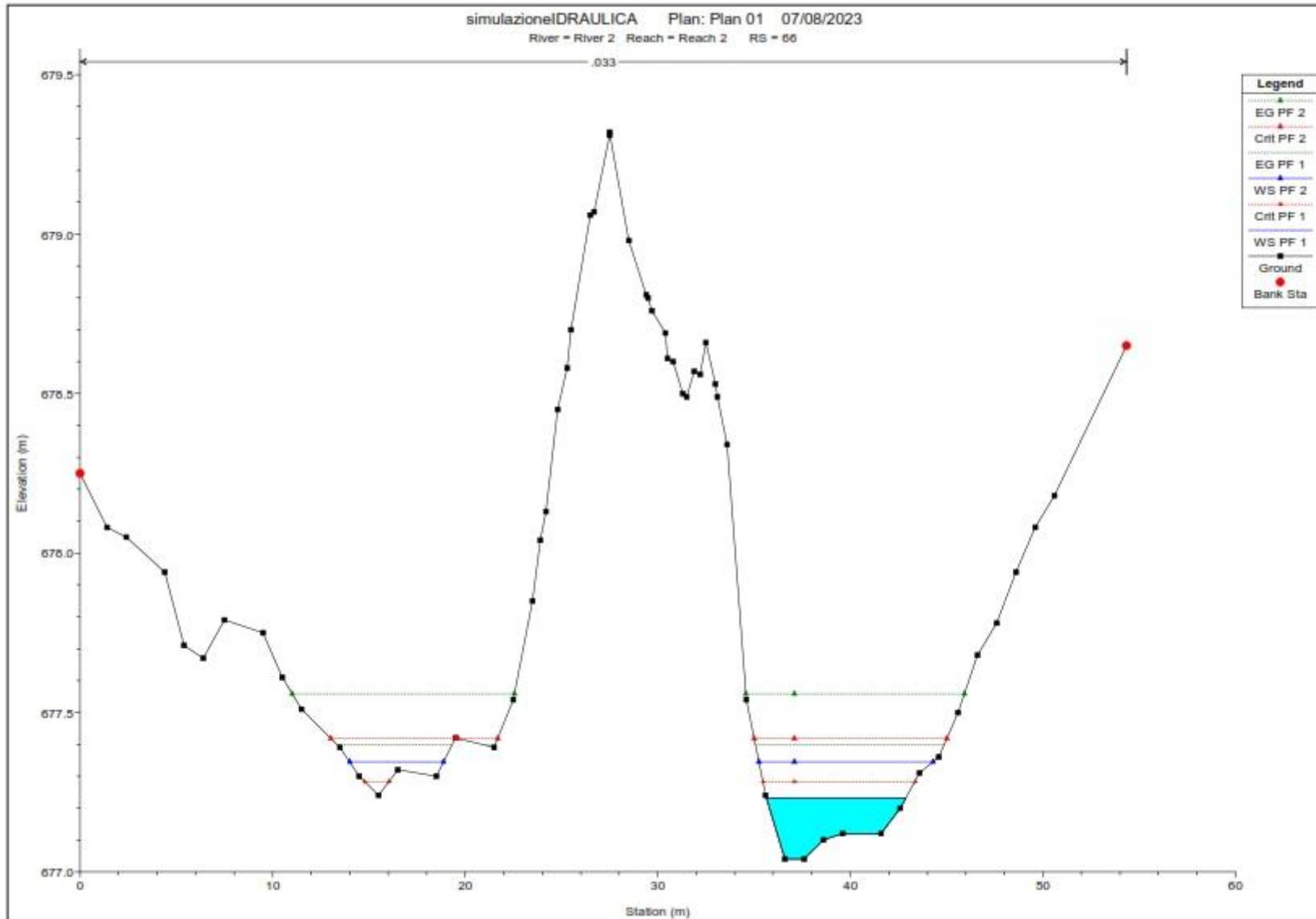


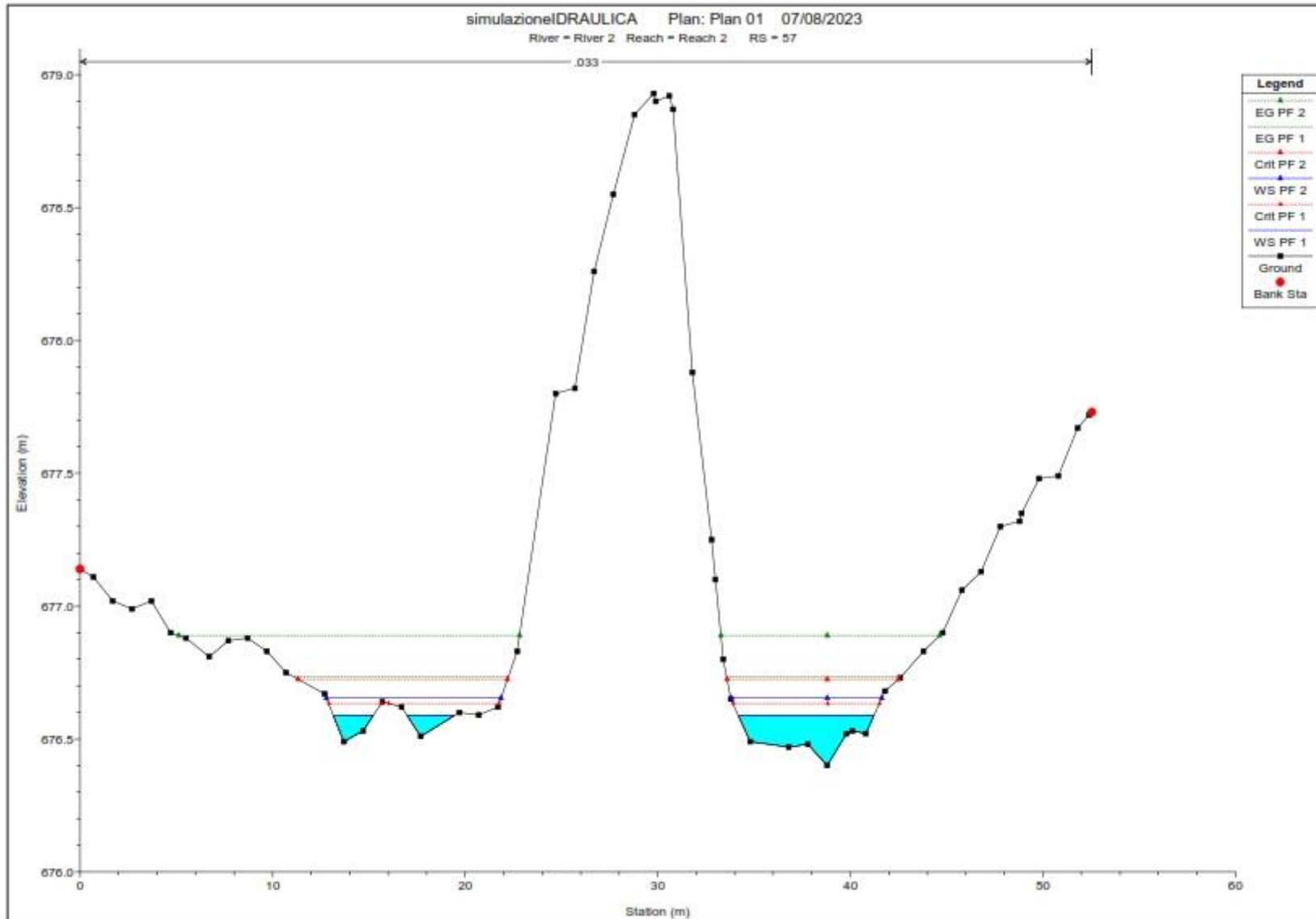


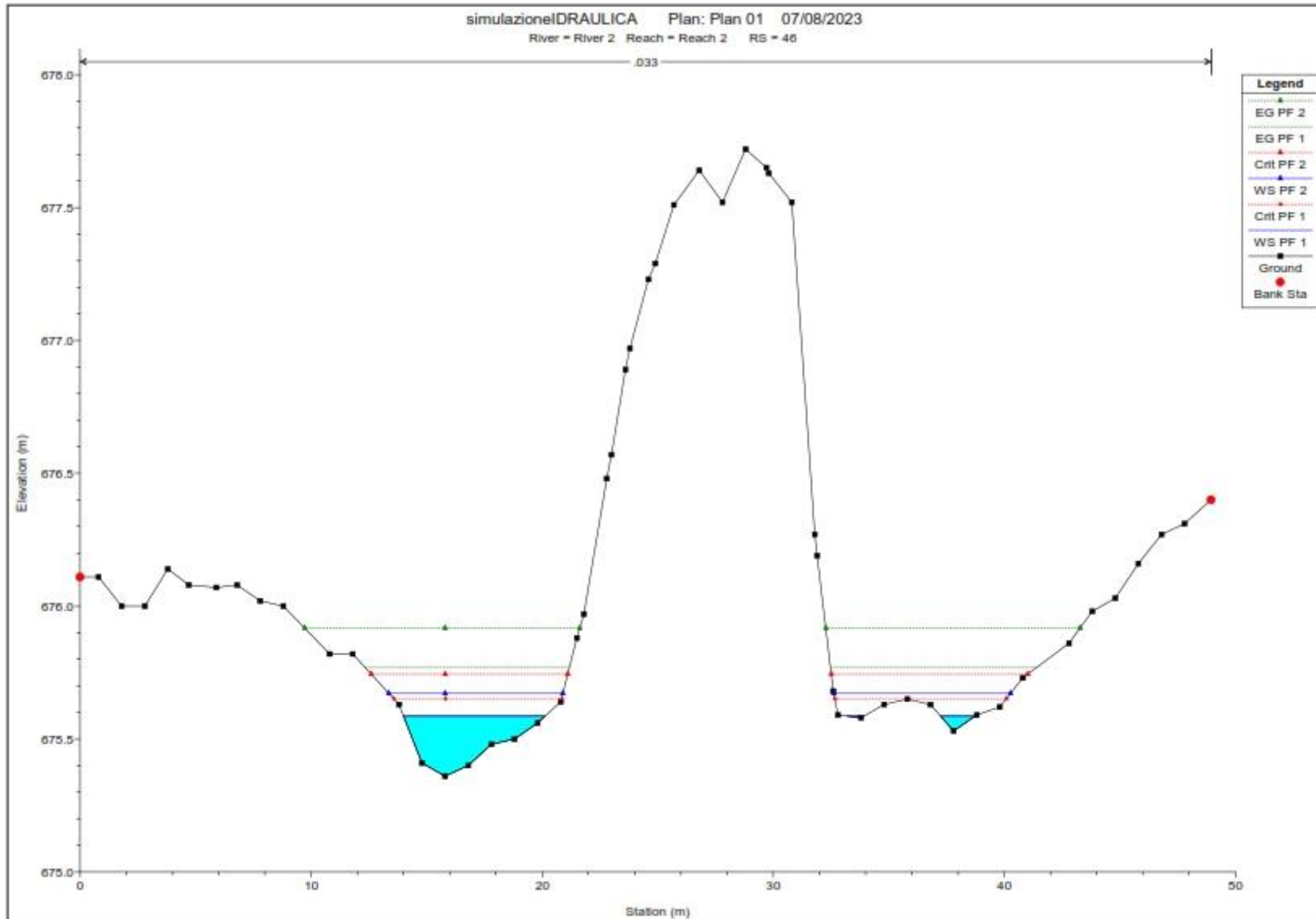


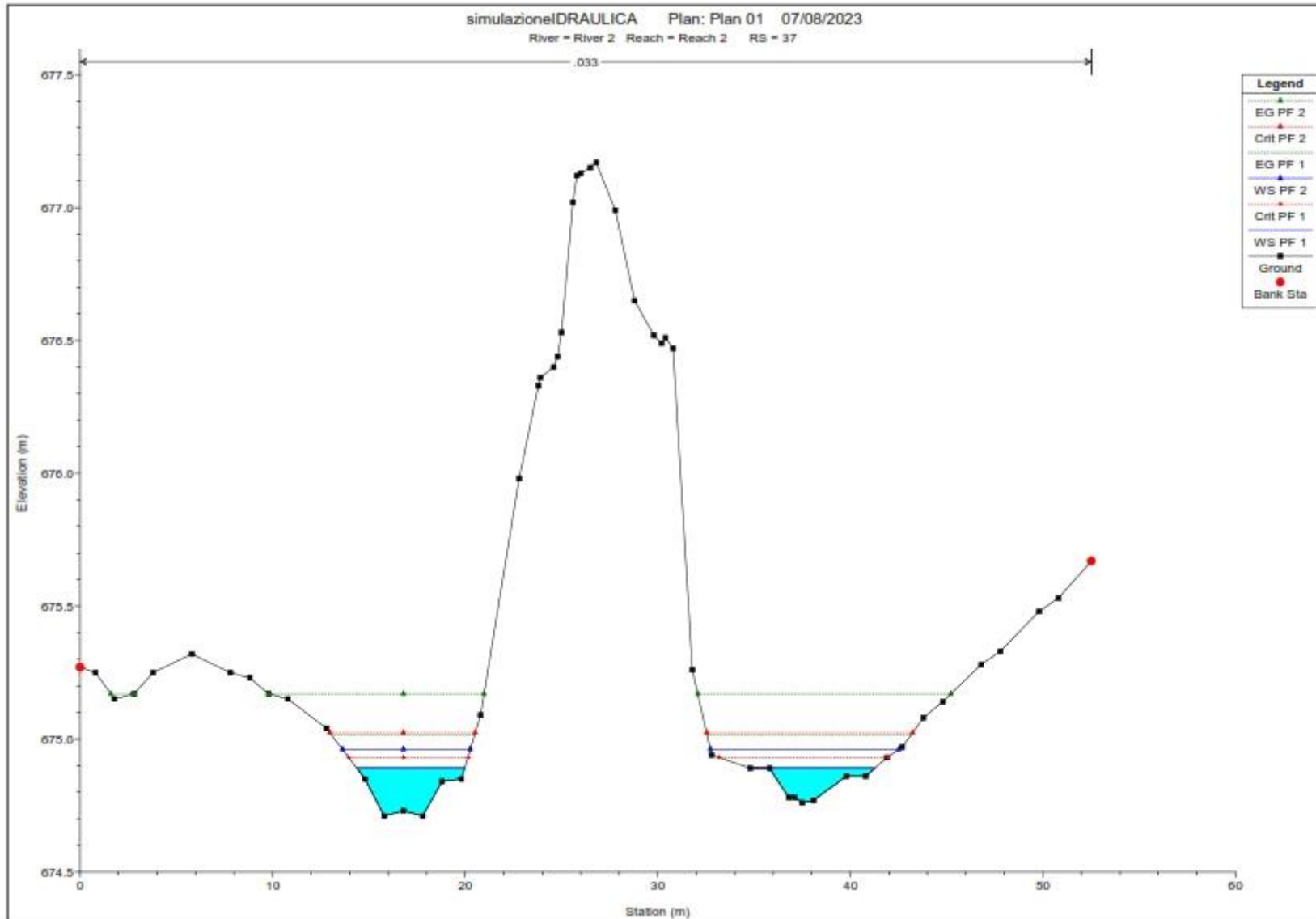


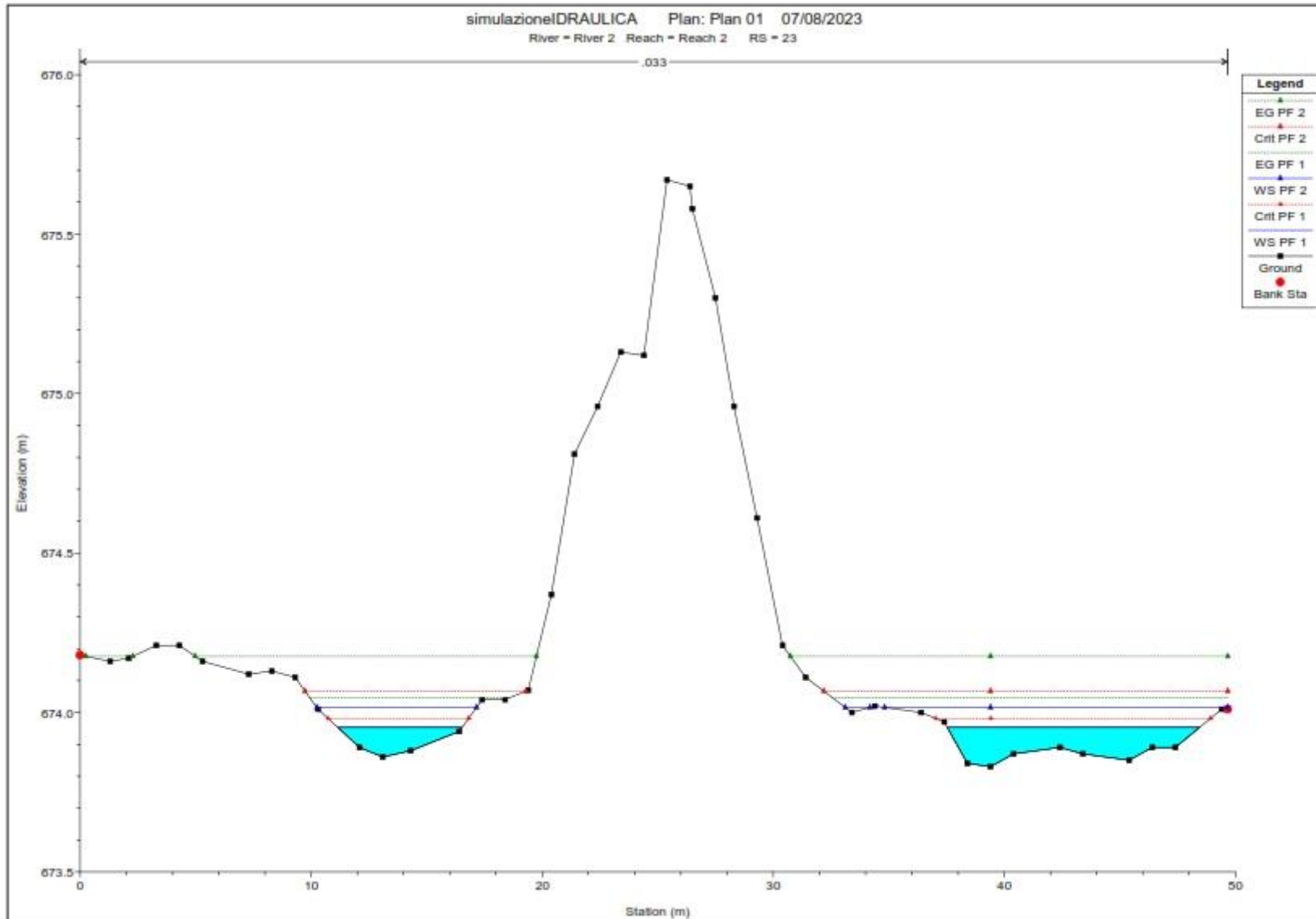












River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Interferenza 2	Reach 1	168	PF 1	0.07	820	820.06	820.02	820.06	0.00115	0.14	0.5	9.71	0.2
Interferenza 2	Reach 1	168	PF 2	0.35	820	820.12	820.06	820.12	0.002275	0.32	1.09	10.4	0.32
Interferenza 2	Reach 1	157	PF 1	0.07	820	820.02	820.02	820.02	0.050417	0.34	0.21	18.88	1.02
Interferenza 2	Reach 1	157	PF 2	0.35	820	820.04	820.04	820.05	0.039411	0.59	0.59	19.2	1.08
Interferenza 2	Reach 1	144	PF 1	0.07	817.98	818.04	818.08	818.21	0.411112	1.85	0.04	1.28	3.44
Interferenza 3	Reach 1	144	PF 2	0.35	817.98	818.08	818.16	818.65	0.681373	3.34	0.1	2.13	4.82
Interferenza 2	Reach 1	134	PF 1	0.07	815.9	815.97	816	816.05	0.124831	1.18	0.06	1.6	1.97
Interferenza 2	Reach 1	134	PF 2	0.35	815.9	816.04	816.08	816.19	0.112027	1.7	0.21	2.99	2.07
Interferenza 2	Reach 1	123	PF 1	0.07	815	815.02	815.02	815.03	0.067244	0.43	0.16	12.91	1.21
Interferenza 2	Reach 1	123	PF 2	0.35	815	815.04	815.05	815.07	0.083516	0.86	0.41	13.17	1.57
Interferenza 2	Reach 1	114	PF 1	0.07	813.06	813.1	813.13	813.38	1.146674	2.34	0.03	1.54	5.37

Interferenza 2	Reach 1	114	PF 2	0.35	813.06	813.14	813.22	813.53	0.438851	2.76	0.13	2.48	3.9
Interferenza 2	Reach 1	107	PF 1	0.07	810.71	811.24	810.79	811.24	0.000002	0.02	3.4	10.61	0.01
Interferenza 2	Reach 1	107	PF 2	0.35	810.71	811.56	810.87	811.56	0.000006	0.05	7.44	14.51	0.02
Interferenza 2	Reach 1	100		Culvert									
Interferenza 2	Reach 1	90	PF 1	0.07	809.66	809.75	809.75	809.76	0.024945	0.59	0.12	2.72	0.91
Interferenza 2	Reach 1	90	PF 2	0.35	809.66	809.82	809.82	809.86	0.024735	0.88	0.4	4.99	1
Interferenza 2	Reach 1	69	PF 1	0.07	808.18	808.22	808.24	808.35	0.505601	1.61	0.04	2.13	3.59
Interferenza 2	Reach 1	69	PF 2	0.35	808.18	808.25	808.3	808.5	0.40455	2.21	0.16	4.07	3.58
Interferenza 2	Reach 1	56	PF 1	0.07	806.62	806.68	806.68	806.7	0.053691	0.67	0.1	3.5	1.25
Interferenza 2	Reach 1	56	PF 2	0.35	806.62	806.73	806.74	806.78	0.060705	1.05	0.33	6.26	1.46
Interferenza 2	Reach 1	42	PF 1	0.07	805	805.04	805.07	805.18	0.336234	1.63	0.04	1.51	3.09
Interferenza 2	Reach 1	42	PF 2	0.35	805	805.1	805.16	805.35	0.20781	2.23	0.16	2.41	2.79

Interferenza 2	Reach 1	30	PF 1	0.07	805	805.01	805.01	805.02	0.033368	0.3	0.23	18.4	0.85
Interferenza 2	Reach 1	30	PF 2	0.35	805	805.04	805.03	805.05	0.025654	0.52	0.67	18.78	0.89
Interferenza 2	Reach 1	23	PF 1	0.07	804.68	804.75	804.75	804.77	0.032967	0.59	0.12	3.34	1.01
Interferenza 2	Reach 1	23	PF 2	0.35	804.68	804.81	804.81	804.85	0.027347	0.83	0.42	6.32	1.02
Interferenza 2	Reach 1	13	PF 1	0.07	802.84	802.87	802.9	803.24	2.067066	2.69	0.03	1.68	6.92
Interferenza 2	Reach 1	13	PF 2	0.35	802.84	802.89	802.97	803.88	2.572597	4.41	0.08	2.89	8.5
Interferenza 5	Reach 1	129	PF 1	12.58	761.39	762.1	762.1	762.24	0.018257	1.66	7.56	28.38	1.03
Interferenza 5	Reach 1	129	PF 2	23.03	761.39	762.24	762.24	762.44	0.015489	2	11.49	28.69	1.01
Interferenza 5	Reach 1	113	PF 1	12.58	760	760.74	761.01	761.66	0.059811	4.27	2.95	5.95	1.93
Interferenza 5	Reach 1	113	PF 2	23.03	760	760.94	761.15	761.8	0.14216	4.12	5.6	24.85	2.77
Interferenza 5	Reach 1	102	PF 1	12.58	759.87	760.12	760.25	760.59	0.128713	3.02	4.17	28.37	2.51
Interferenza 5	Reach 1	102	PF 2	23.03	759.87	760.25	760.38	760.71	0.059006	3.02	7.62	28.62	1.87

Interferenza 5	Reach 1	90	PF 1	12.58	759.34	759.58	759.63	759.8	0.032978	2.08	6.04	25.77	1.37
Interferenza 5	Reach 1	90	PF 2	23.03	759.34	759.65	759.78	760.07	0.043555	2.87	8.02	26.02	1.65
Interferenza 5	Reach 1	76	PF 1	12.58	759.17	759.53	759.47	759.63	0.008883	1.39	9.02	26.22	0.76
Interferenza 5	Reach 1	76	PF 2	23.03	759.17	759.67	759.61	759.84	0.009414	1.79	12.85	26.71	0.82
Interferenza 5	Reach 1	63	PF 1	12.58	759.01	759.32	759.32	759.46	0.016578	1.69	7.46	26.09	1.01
Interferenza 5	Reach 1	63	PF 2	23.03	759.01	759.46	759.46	759.67	0.014529	2.05	11.26	26.55	1
Interferenza 5	Reach 1	48	PF 1	12.58	755.82	756.22	756.68	758.62	0.261292	6.86	1.83	5.77	3.89
Interferenza 5	Reach 1	48	PF 2	23.03	755.82	756.45	757.03	758.94	0.160652	6.99	3.3	6.85	3.22
Interferenza 5	Reach 1	36	PF 1	12.58	755	755.68	756.01	756.75	0.070106	4.57	2.75	5.64	2.09
Interferenza 5	Reach 1	36	PF 2	23.03	755	755.93	756.38	757.4	0.070457	5.38	4.28	6.8	2.17
Interferenza 8	Reach 1	64	PF 1	0.98	789.46	789.8	789.74	789.86	0.010835	1.12	0.88	3.95	0.76

Interferenza 8	Reach 1	64	PF 2	2.03	789.46	790.29	789.89	790.3	0.000501	0.39	5.2	10.84	0.18
Interferenza 8	Reach 1	61	PF 1	0.98	788.89	789.84	789.21	789.84	0.000165	0.23	4.45	10	0.11
Interferenza 8	Reach 1	61	PF 2	2.03	788.89	790.3	789.35	790.3	0.000075	0.23	9	10	0.08
Interferenza 8	Reach 1	58		Culvert									
Interferenza 8	Reach 1	56	PF 1	0.98	788.1	788.43	788.43	788.54	0.019187	1.48	0.66	3.05	1.01
Interferenza 8	Reach 1	56	PF 2	2.03	788.1	788.58	788.58	788.74	0.017046	1.76	1.15	3.72	1.01
Interferenza 8	Reach 1	53	PF 1	0.98	787.47	787.63	787.77	788.32	0.285693	3.69	0.27	2.39	3.53
Interferenza 8	Reach 1	53	PF 2	2.03	787.47	787.72	787.93	788.53	0.174221	4	0.51	2.76	2.97
Interferenza 8	Reach 1	50	PF 1	0.98	786.9	787.08	787.21	787.6	0.188425	3.21	0.31	2.46	2.91
Interferenza 8	Reach 1	50	PF 2	2.03	786.9	787.15	787.37	788.01	0.188017	4.09	0.5	2.75	3.08
Interferenza 8	Reach 1	47	PF 1	0.98	786.33	786.5	786.63	787.04	0.197184	3.27	0.3	2.44	2.98

Interferenza 8	Reach 1	31	PF 1	0.98	783.03	783.2	783.34	783.76	0.202646	3.3	0.3	2.44	3.02
Interferenza 8	Reach 1	31	PF 2	2.03	783.03	783.27	783.48	784.16	0.199879	4.18	0.49	2.74	3.17
Interferenza 8	Reach 1	28	PF 1	0.98	782.56	782.72	782.85	783.24	0.174365	3.18	0.31	2.39	2.82
Interferenza 8	Reach 1	28	PF 2	2.03	782.56	782.8	783	783.64	0.178621	4.07	0.5	2.69	3.01
Interferenza 8	Reach 1	24	PF 1	0.98	782.38	782.59	782.66	782.83	0.056097	2.16	0.45	2.64	1.66
Interferenza 8	Reach 1	24	PF 2	2.03	782.38	782.67	782.85	783.13	0.075219	3.01	0.67	2.95	2.01
Interferenza 8	Reach 1	21	PF 1	0.98	782.21	782.43	782.49	782.61	0.066725	1.88	0.52	4.23	1.72
Interferenza 8	Reach 1	21	PF 2	2.03	782.21	782.49	782.59	782.82	0.092845	2.54	0.8	5.25	2.08
Interferenza 8	Reach 1	18	PF 1	0.98	781.99	782.2	782.26	782.39	0.082209	1.94	0.51	4.54	1.85
Interferenza 8	Reach 1	18	PF 2	2.03	781.99	782.27	782.36	782.55	0.078143	2.34	0.87	5.58	1.9
Interferenza 8	Reach 1	14	PF 1	0.98	781.69	781.95	781.99	782.09	0.056489	1.64	0.6	5.12	1.54
Interferenza 8	Reach 1	14	PF 2	2.03	781.69	782.02	782.09	782.24	0.061	2.1	0.97	6.07	1.68

Interferenza 10	Reach 1	105	PF 1	16.76	795	795.28	795.28	795.42	0.016869	1.65	10.18	37.29	1.01
Interferenza 10	Reach 1	105	PF 2	28.91	795	795.4	795.4	795.6	0.014996	1.95	14.79	38.24	1
Interferenza 13	Reach 1	239	PF 1	1.2	924.26	924.38	924.38	924.42	0.024617	0.89	1.35	16.58	1
Interferenza 13	Reach 1	239	PF 2	2.32	924.26	924.43	924.43	924.48	0.022403	1.05	2.22	20.02	1
Interferenza 13	Reach 1	225	PF 1	1.2	922.55	922.69	922.8	923.39	0.524804	3.71	0.32	4.66	4.49
Interferenza 13	Reach 1	225	PF 2	2.32	922.55	922.74	922.88	923.56	0.417242	4.01	0.58	6.23	4.2
Interferenza 13	Reach 1	218	PF 1	1.2	922.4	922.52	922.53	922.57	0.036682	1	1.2	16.7	1.19
Interferenza 13	Reach 1	218	PF 2	2.32	922.4	922.55	922.57	922.64	0.045036	1.34	1.74	18.29	1.39
Interferenza 13	Reach 1	211	PF 1	1.2	921.68	921.77	921.82	922	0.298003	2.11	0.57	12.47	3.16
Interferenza 13	Reach 1	211	PF 2	2.32	921.68	921.8	921.87	922.06	0.196487	2.22	1.04	15.47	2.74
Interferenza 13	Reach 1	202	PF 1	1.2	920.66	920.8	920.82	920.89	0.061336	1.37	0.87	11.18	1.57
Interferenza 13	Reach 1	202	PF 2	2.32	920.66	920.83	920.88	920.99	0.073378	1.75	1.33	13.54	1.78



**PROGETTO DI UN IMPIANTO AGRIVOLTAICO DENOMINATO
"CSPV LACEDONIA", DI POTENZA PARI A 34,406 MWP
E DELLE RELATIVE OPERE DI CONNESSIONE ALLA RTN, DA REALIZZARSI
NEL COMUNE DI LACEDONIA (AV) E BISACCIA (AV)
RELAZIONE IDROLOGICA E IDRAULICA – APPENDICE B**

**DATA:
DICEMBRE 2023
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Interferenza 13	Reach 1	194	PF 1	1.2	920	920.0 4	920.07	920.14	0.167689	1.42	0.84	21.62	2.3
Interferenza 13	Reach 1	194	PF 2	2.32	920	920.0 6	920.11	920.22	0.139603	1.72	1.35	22.59	2.26

Tabella n. 2: Valori di portata Q30 e Q200 per le interferenze individuate

