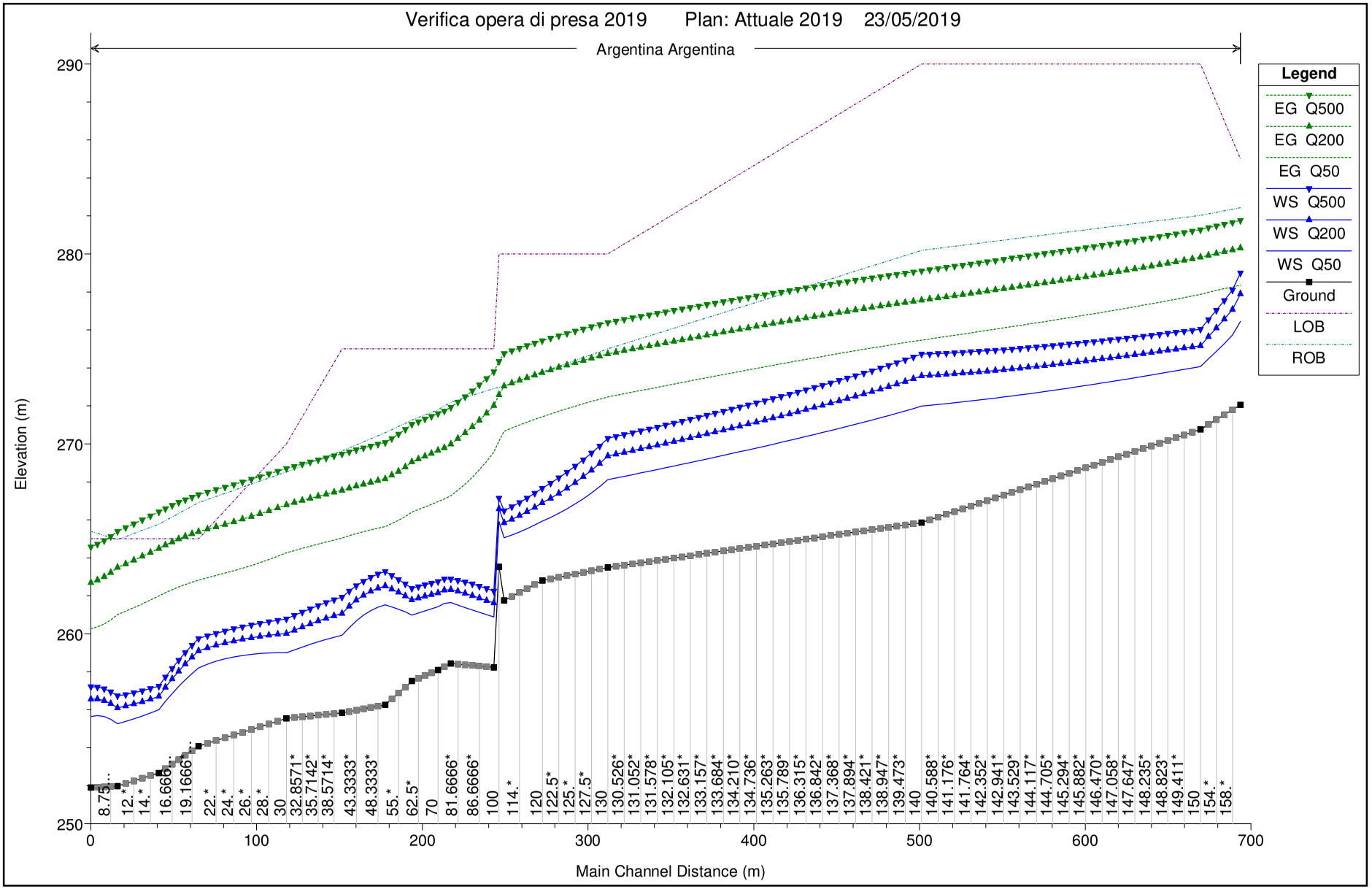
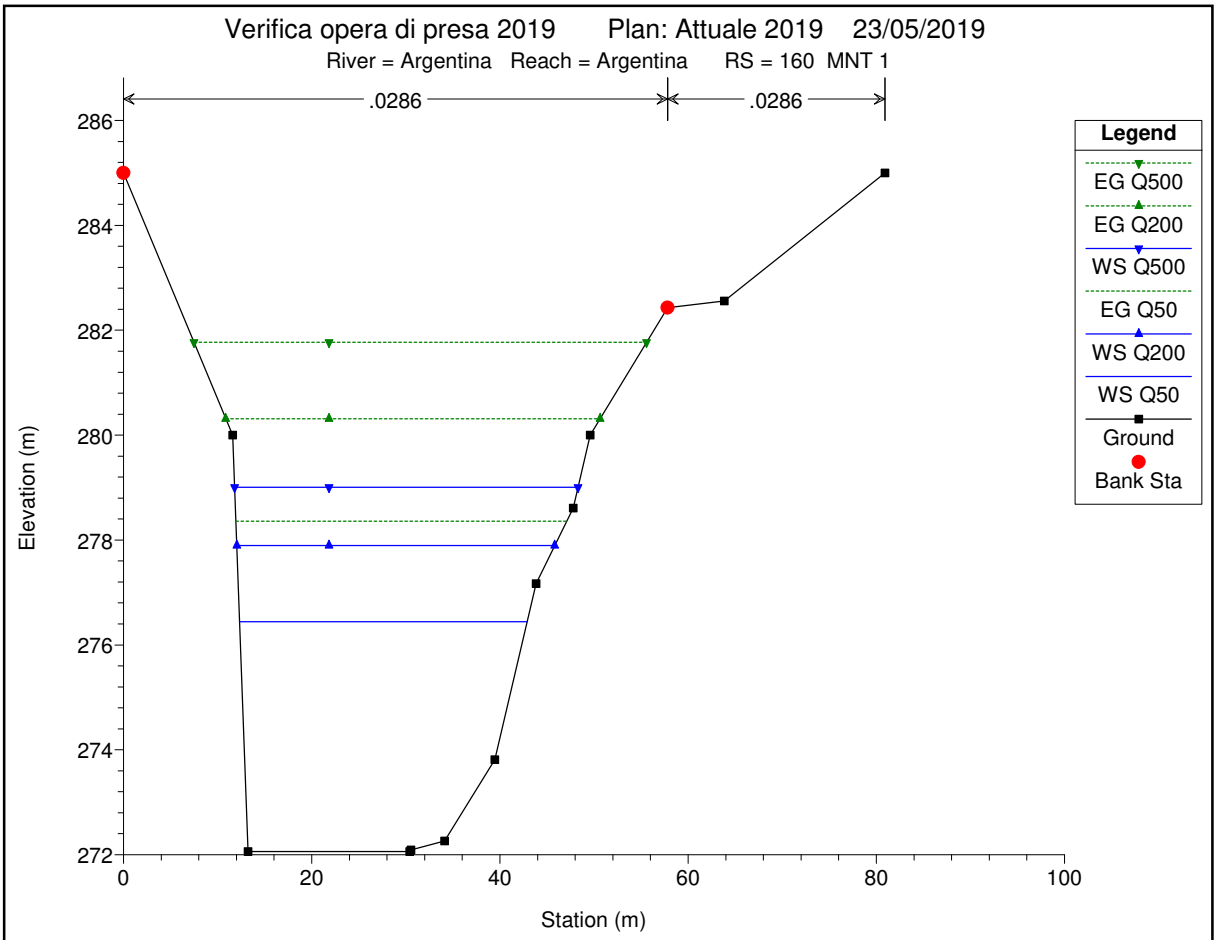
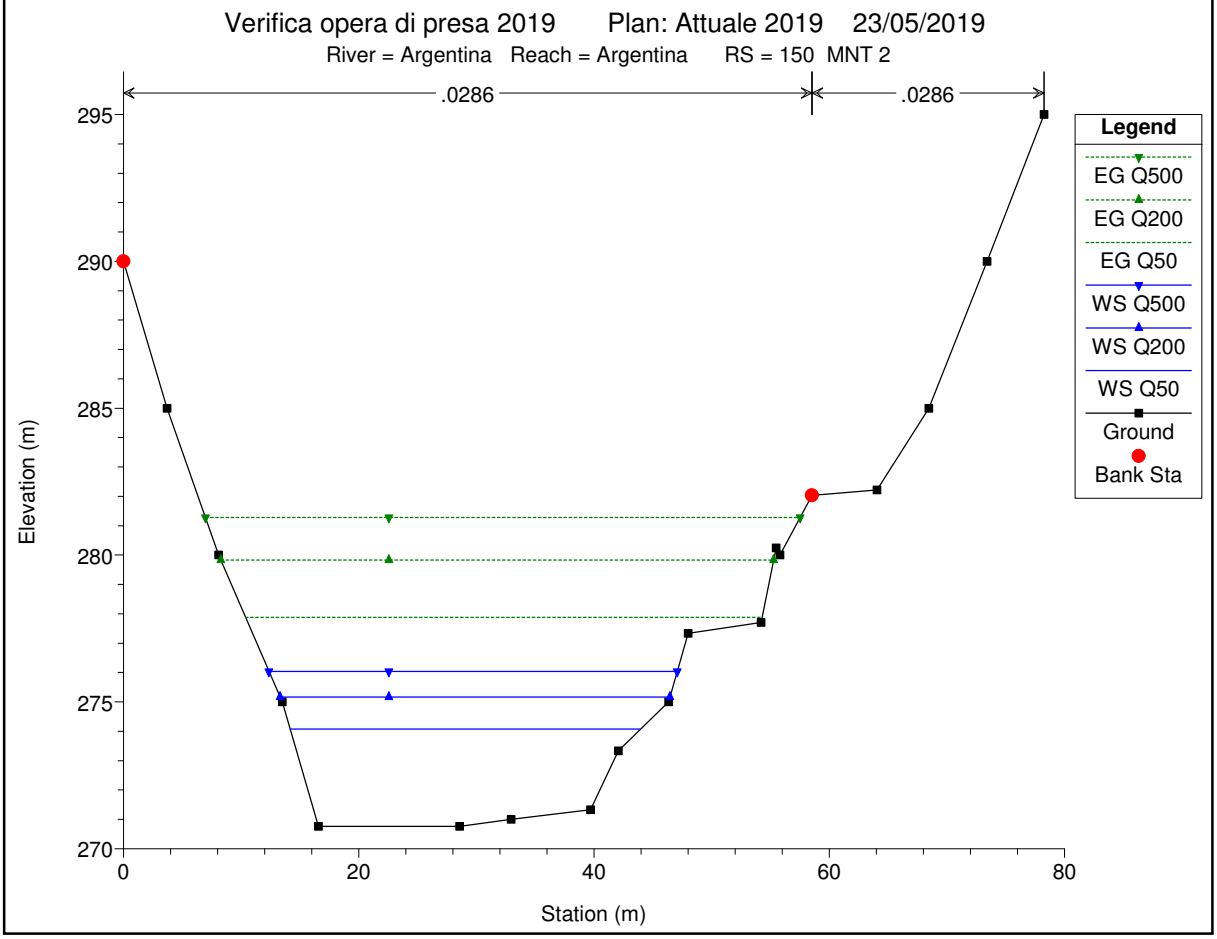
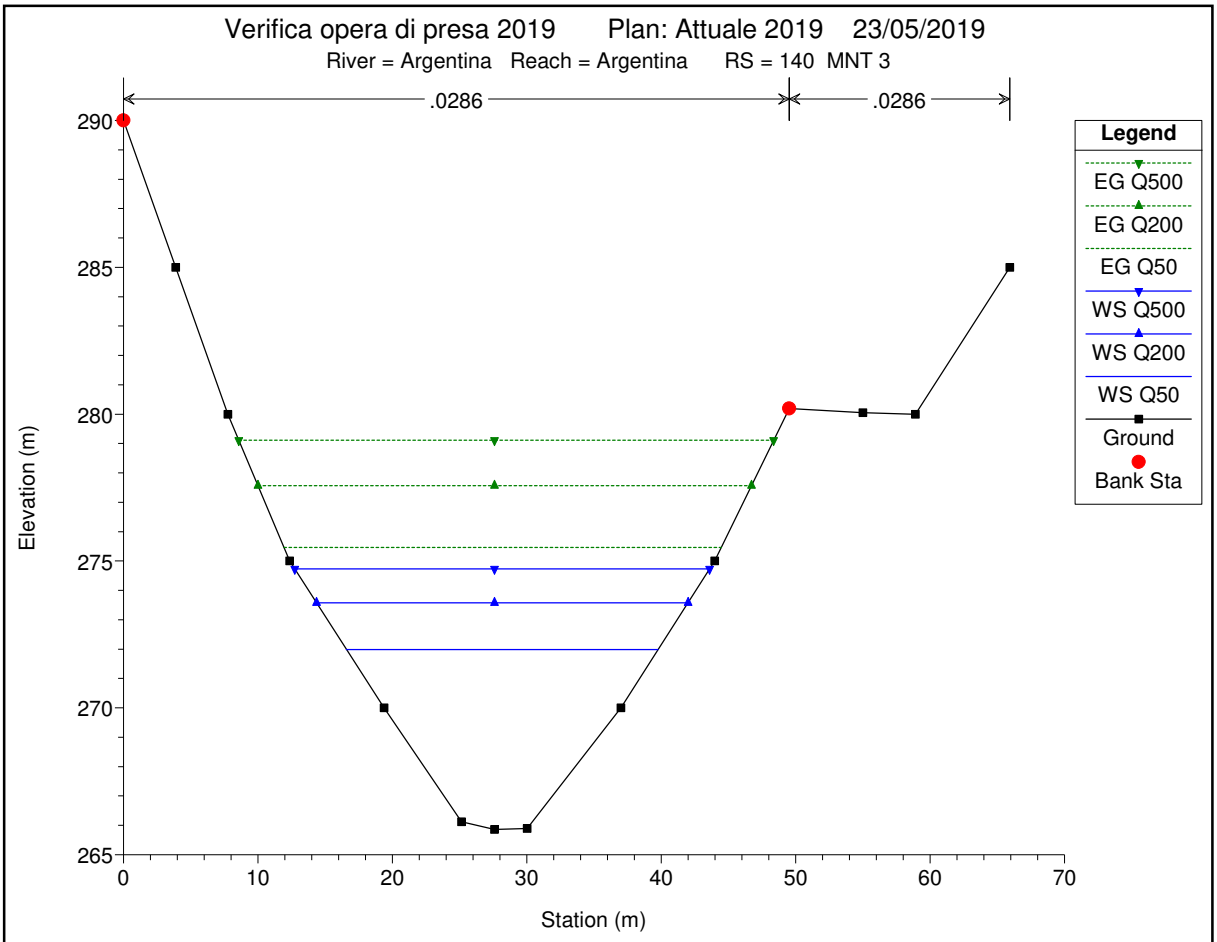
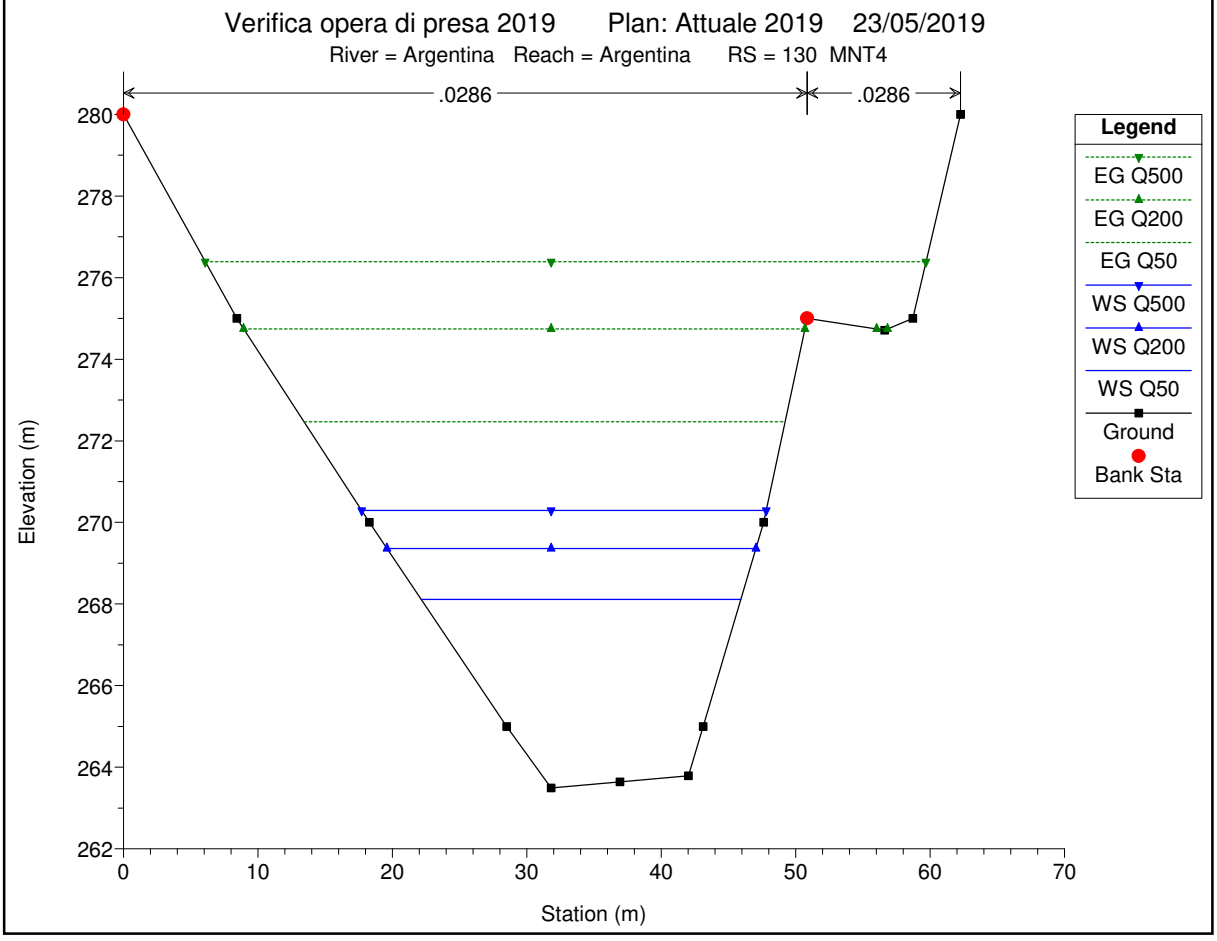
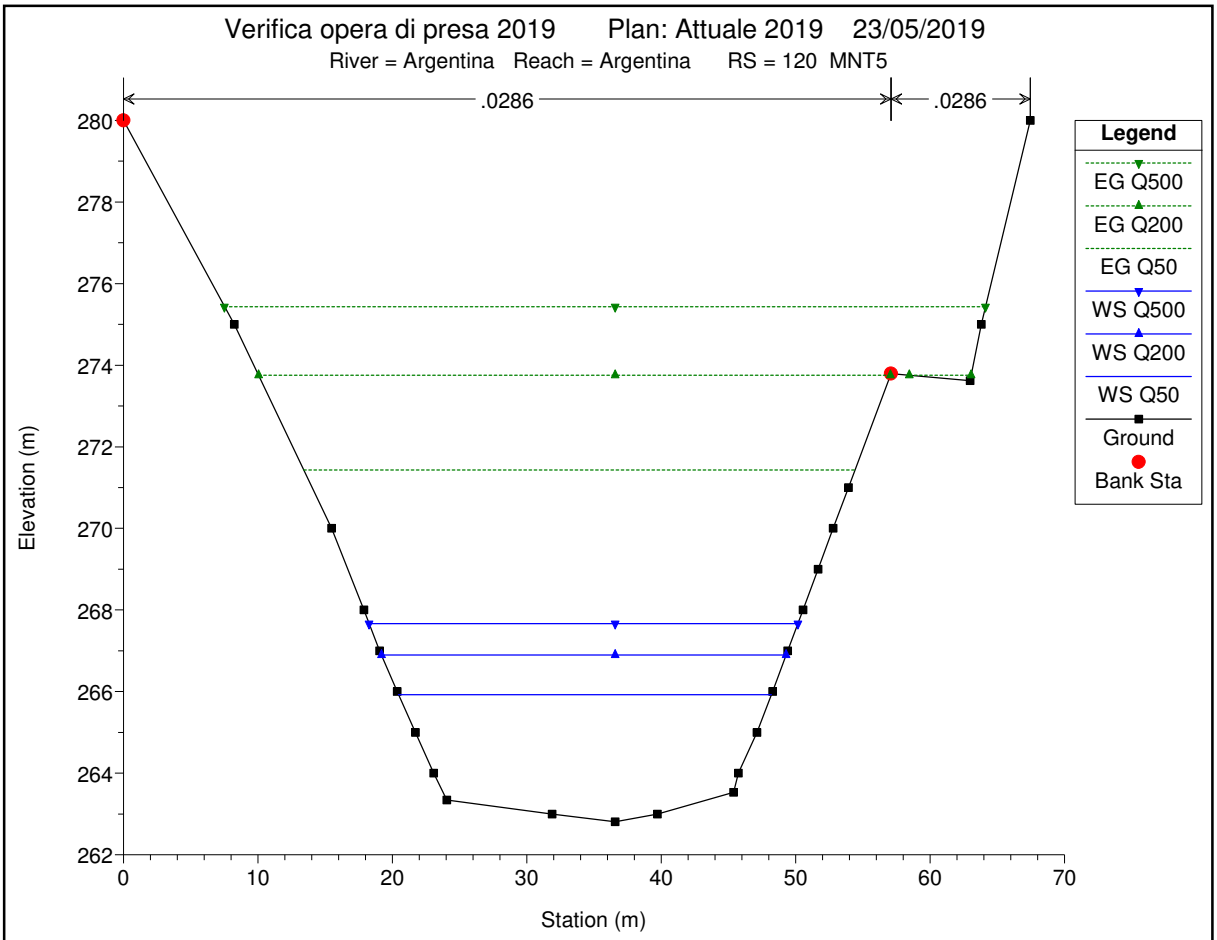

Verifica opera di presa 2019 Plan: Attuale 2019 23/05/2019
Argentina Argentina
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
LOB
ROB
Elevation (m)
290
280
270
260
250
0
100
200
300
400
500
600
700
Main Channel Distance (m)
8.75...
12.*
14.*
16.666...
19.1666...
22.*
24.*
26.*
28.*
30
32.8571*
35.7142*
38.5714*
43.3333*
48.3333*
55.*
62.5*
70
81.6666*
86.6666*
100
114.*
120
122.5*
125.*
127.5*
130
130.526*
131.052*
131.578*
132.105*
132.631*
133.157*
133.684*
134.210*
134.736*
135.263*
135.789*
136.315*
136.842*
137.368*
137.894*
138.421*
138.947*
139.473*
140
140.588*
141.176*
141.764*
142.352*
142.941*
143.529*
144.117*
144.705*
145.294*
145.882*
146.470*
147.058*
147.647*
148.235*
148.823*
149.411*
150
154.*
158.*

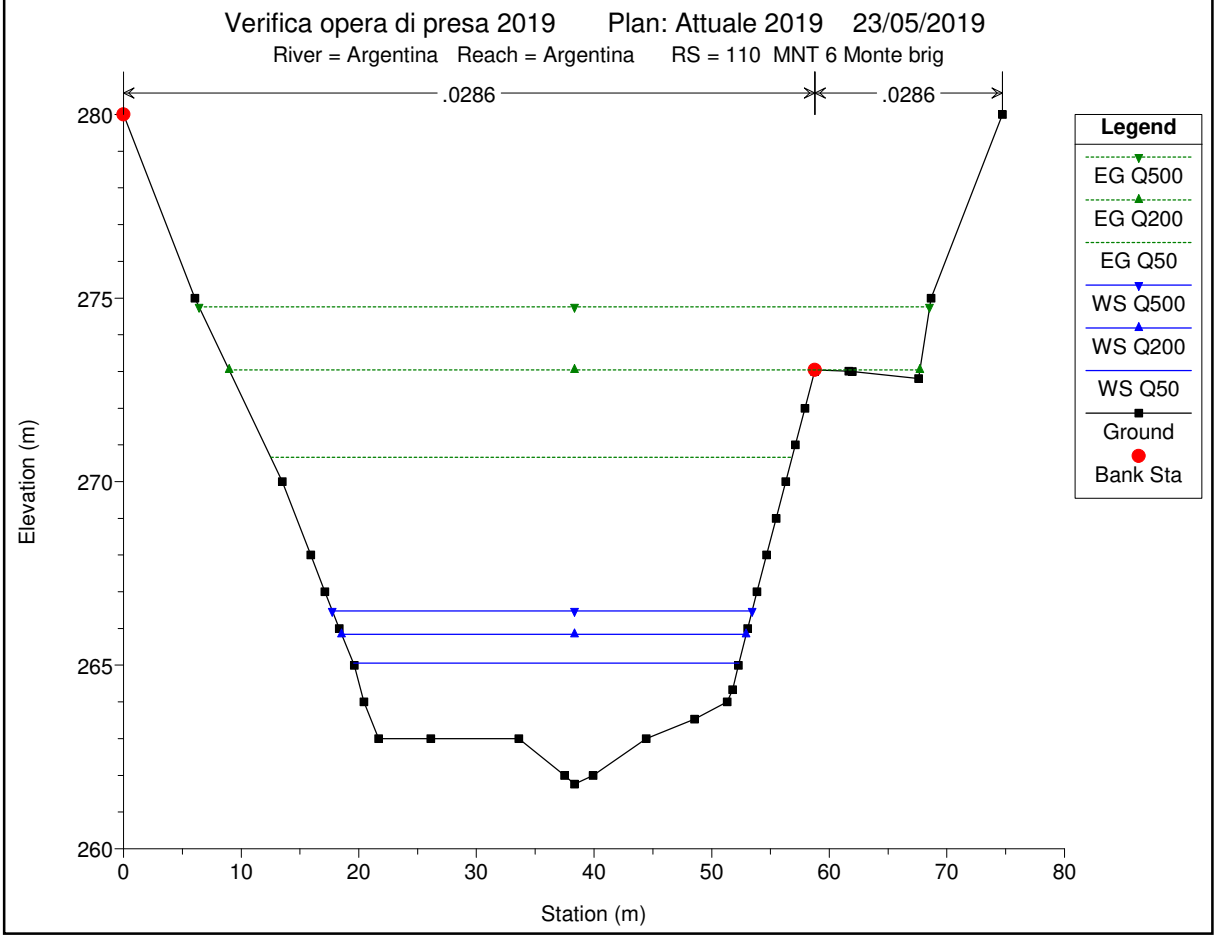

Verifica opera di presa 2019 Plan: Attuale 2019 23/05/2019
River = Argentina Reach = Argentina RS = 160 MNT 1
.0286
.0286
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
WS Q500
EG Q50
WS Q200
WS Q50
Ground
Bank Sta

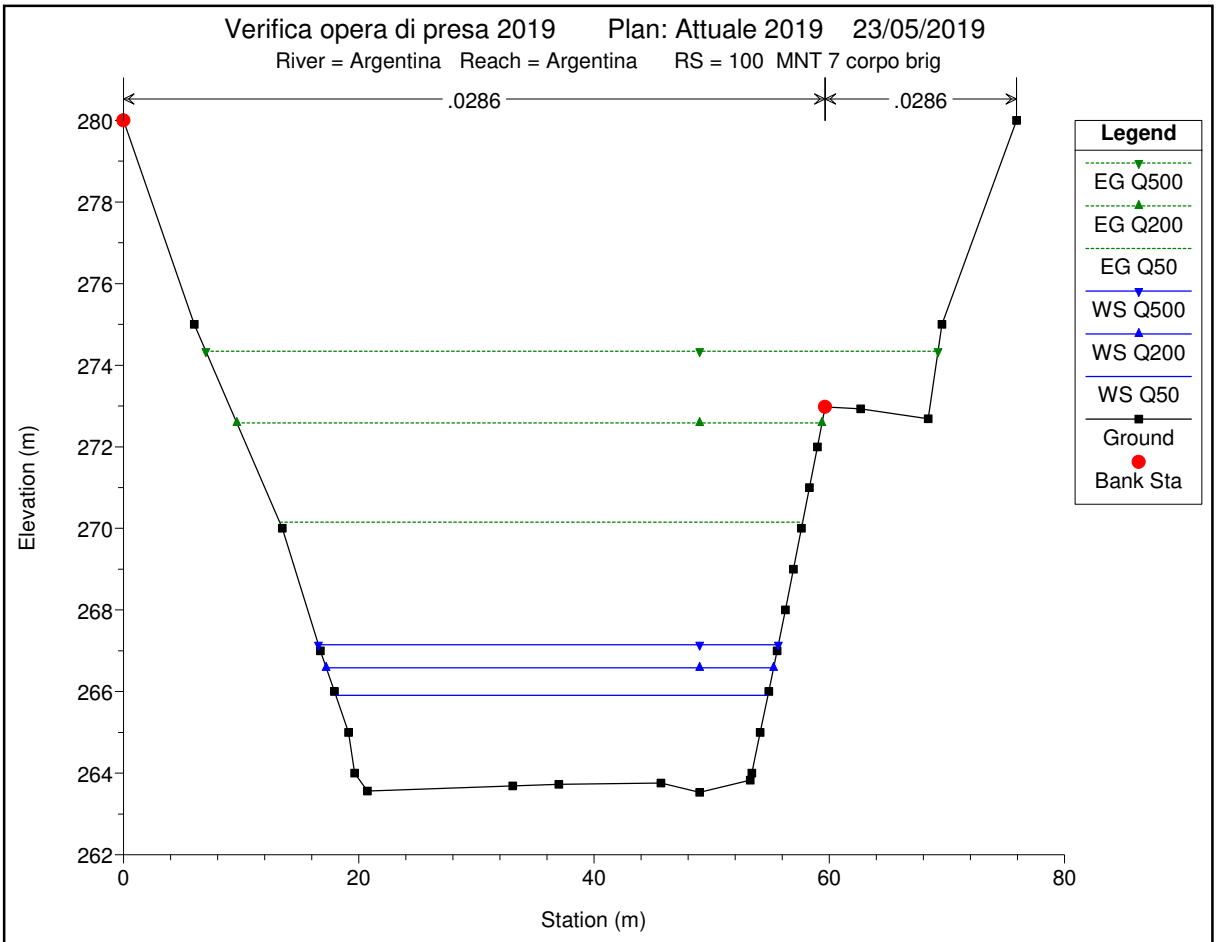

Verifica opera di presa 2019 Plan: Attuale 2019 23/05/2019
River = Argentina Reach = Argentina RS = 150 MNT 2
.0286
.0286
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
Bank Sta

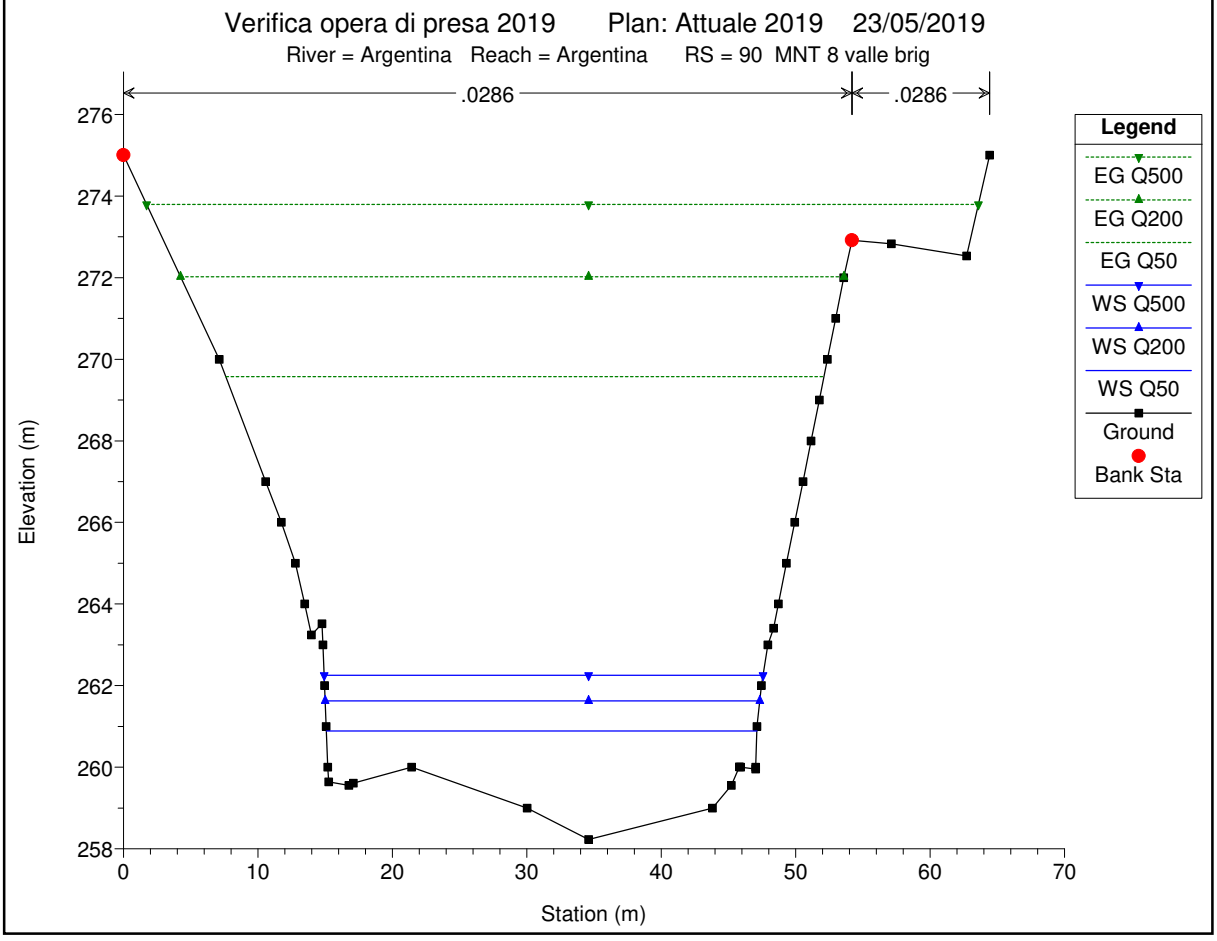

Verifica opera di presa 2019 Plan: Attuale 2019 23/05/2019
River = Argentina Reach = Argentina RS = 140 MNT 3
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
Bank Sta
Elevation (m)
Station (m)
290
285
280
275
270
265
0
10
20
30
40
50
60
70

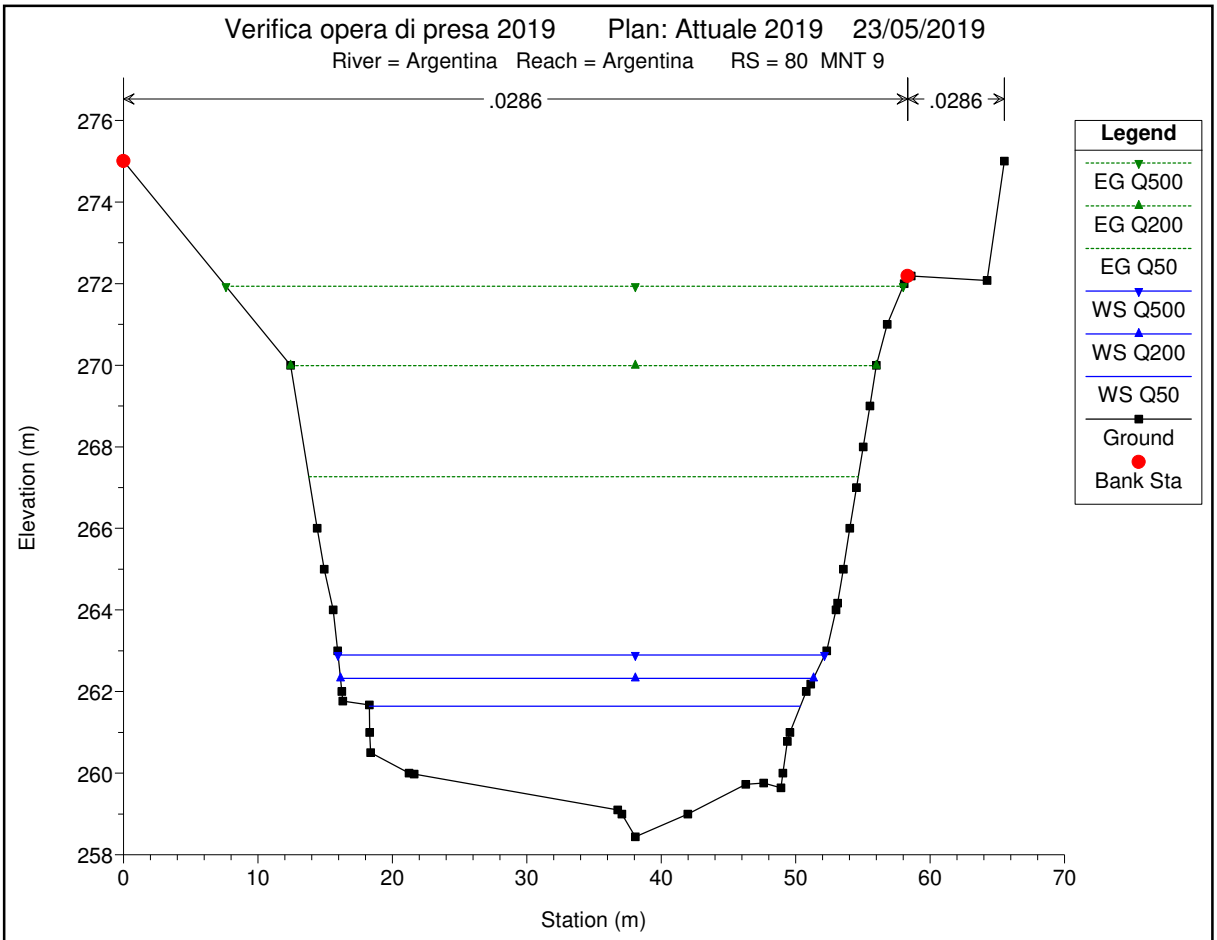

Verifica opera di presa 2019 Plan: Attuale 2019 23/05/2019
River = Argentina Reach = Argentina RS = 130 MNT4
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
Bank Sta
Elevation (m)
Station (m)
280
278
276
274
272
270
268
266
264
262
0
10
20
30
40
50
60
70

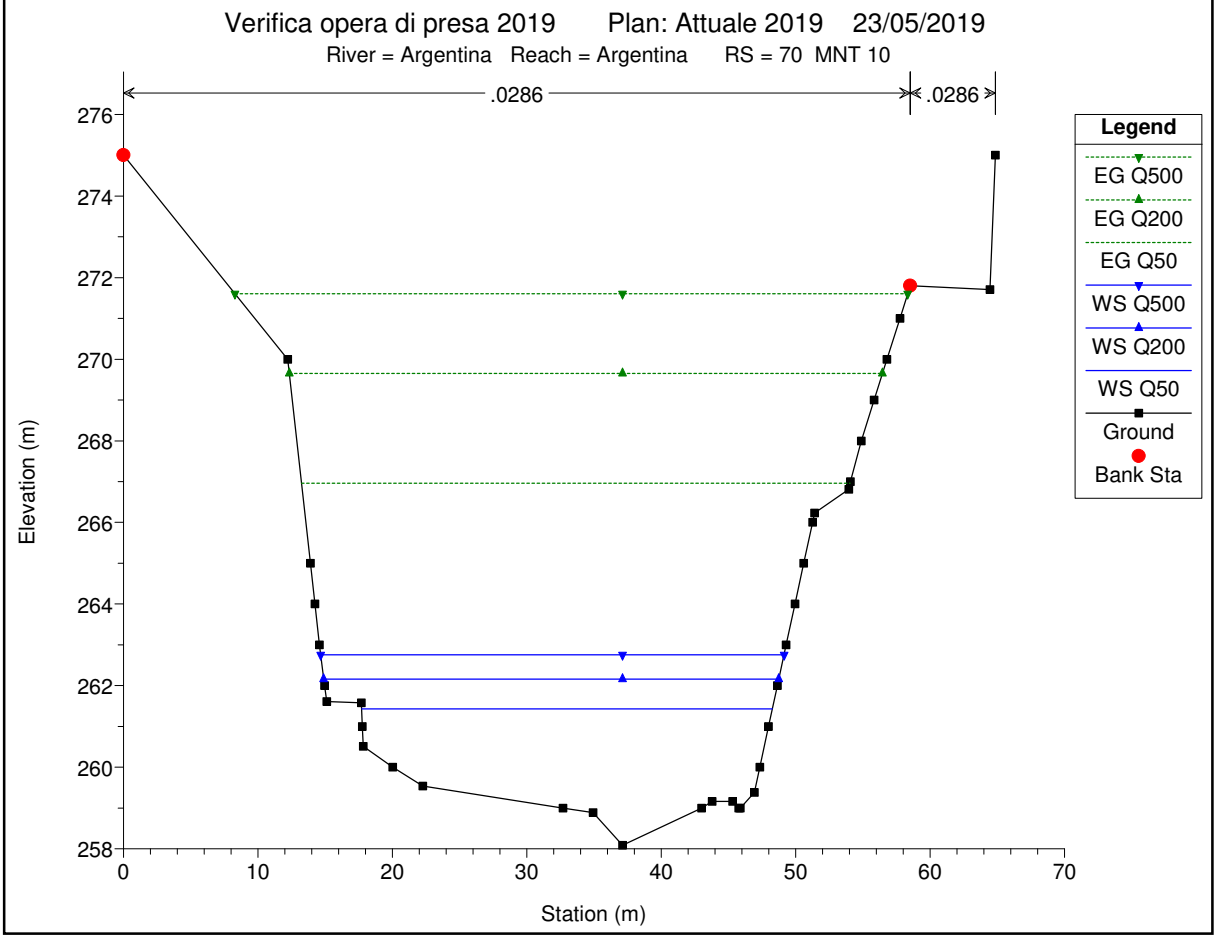

Verifica opera di presa 2019 Plan: Attuale 2019 23/05/2019
River = Argentina Reach = Argentina RS = 120 MNT5
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
Bank Sta
Elevation (m)
Station (m)
280
278
276
274
272
270
268
266
264
262
0
10
20
30
40
50
60
70

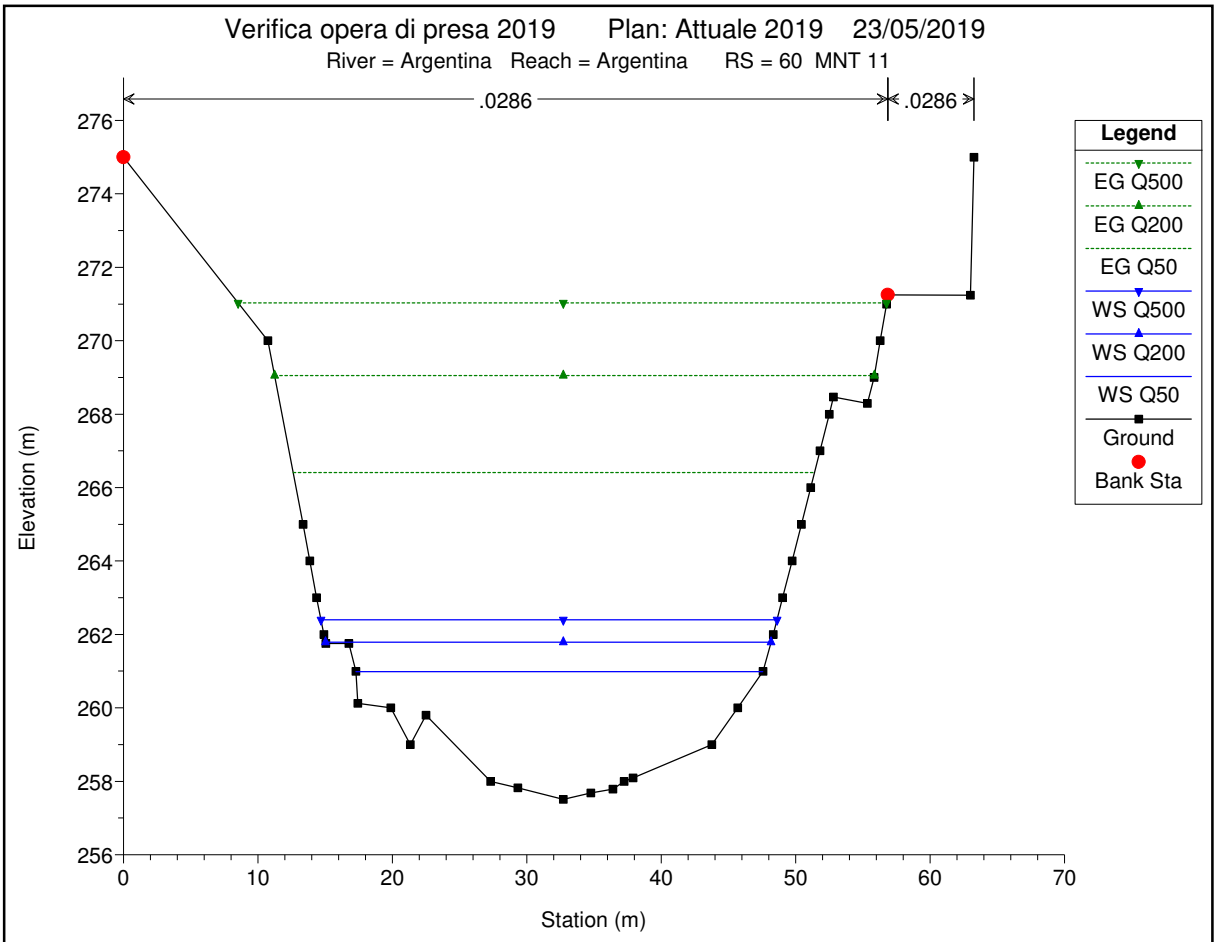

Verifica opera di presa 2019 Plan: Attuale 2019 23/05/2019
River = Argentina Reach = Argentina RS = 110 MNT 6 Monte brig
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
Bank Sta
Elevation (m)
Station (m)
280
275
270
265
260
0
10
20
30
40
50
60
70
80

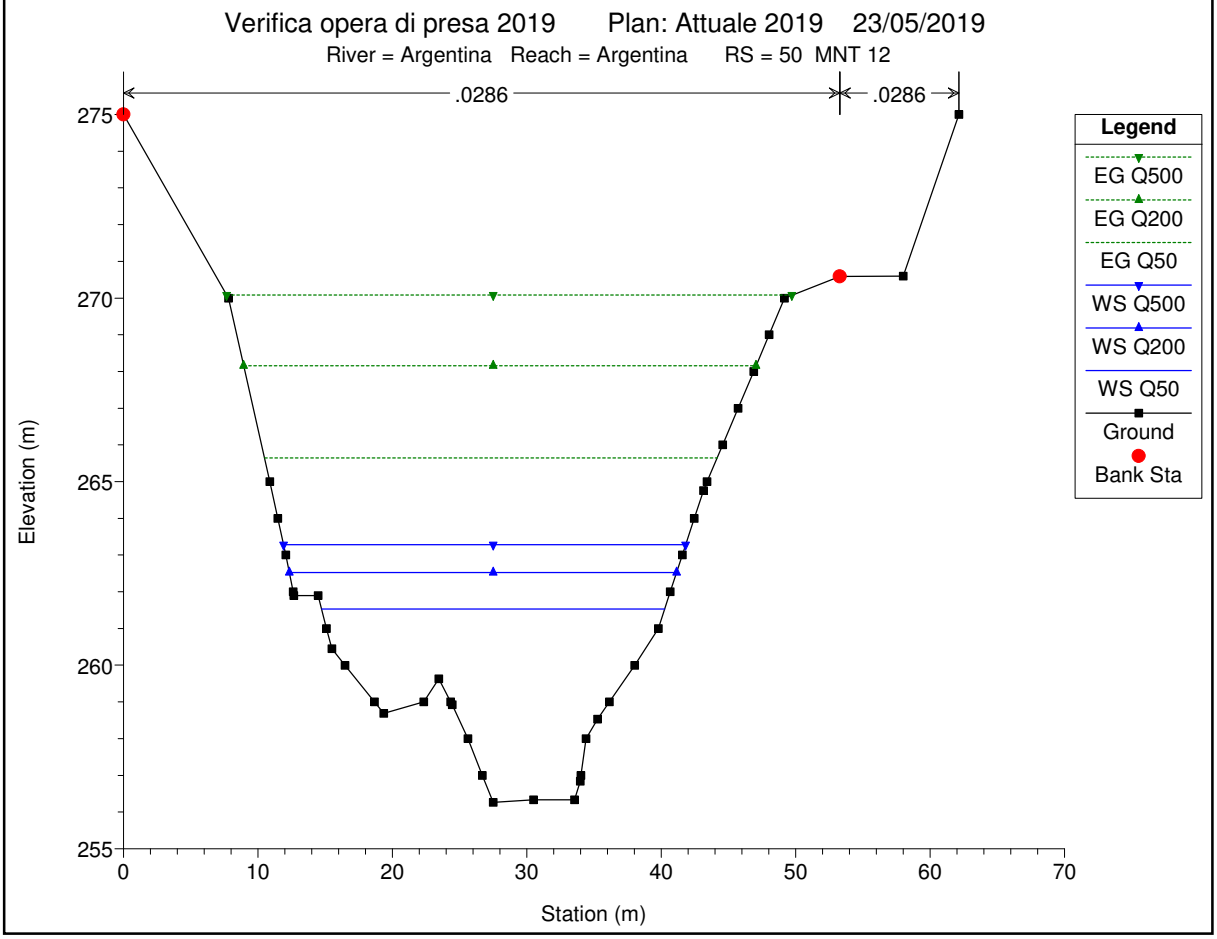

Verifica opera di presa 2019 Plan: Attuale 2019 23/05/2019
River = Argentina Reach = Argentina RS = 100 MNT 7 corpo brig
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
Bank Sta
Elevation (m)
Station (m)

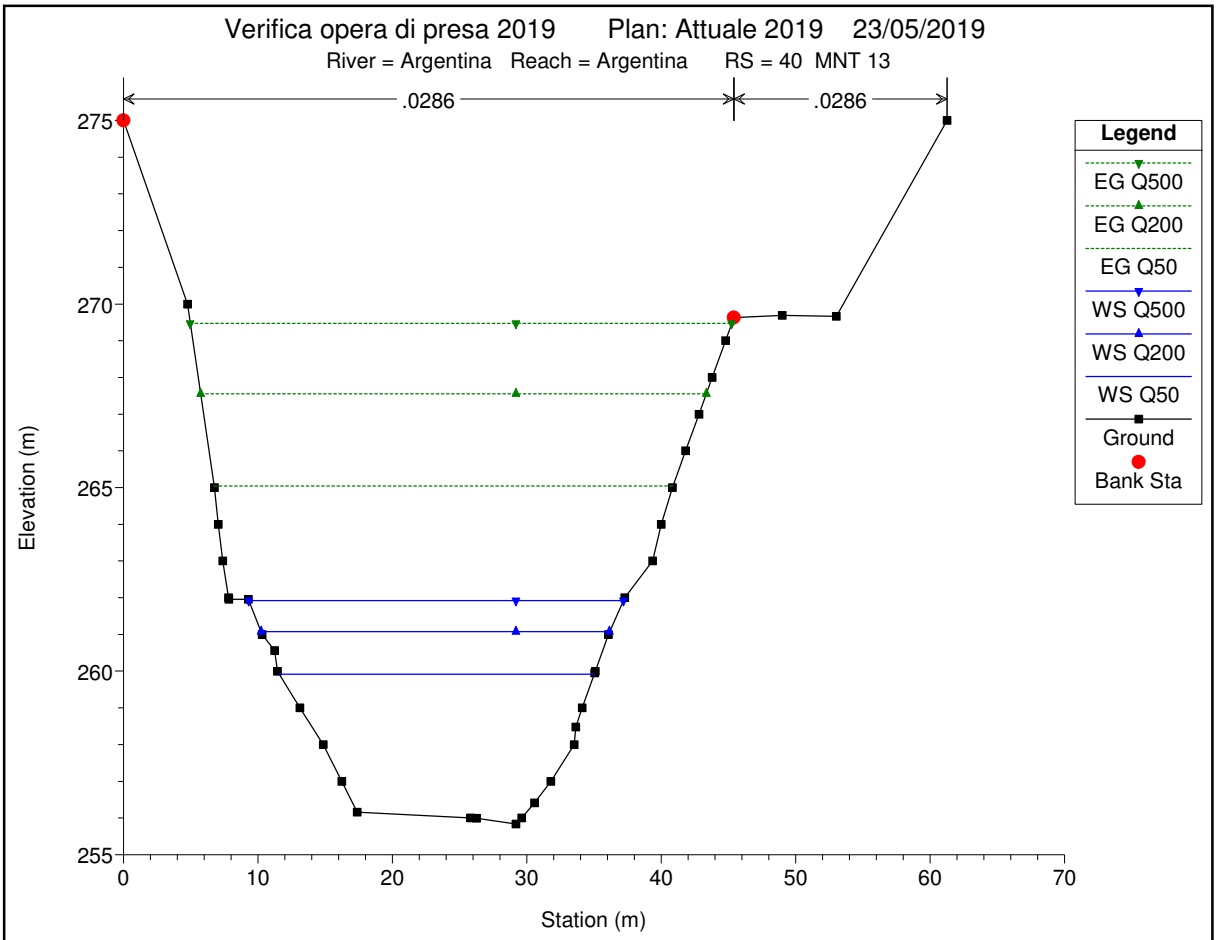

Verifica opera di presa 2019 Plan: Attuale 2019 23/05/2019
River = Argentina Reach = Argentina RS = 90 MNT 8 valle brig
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
Bank Sta
Elevation (m)
Station (m)

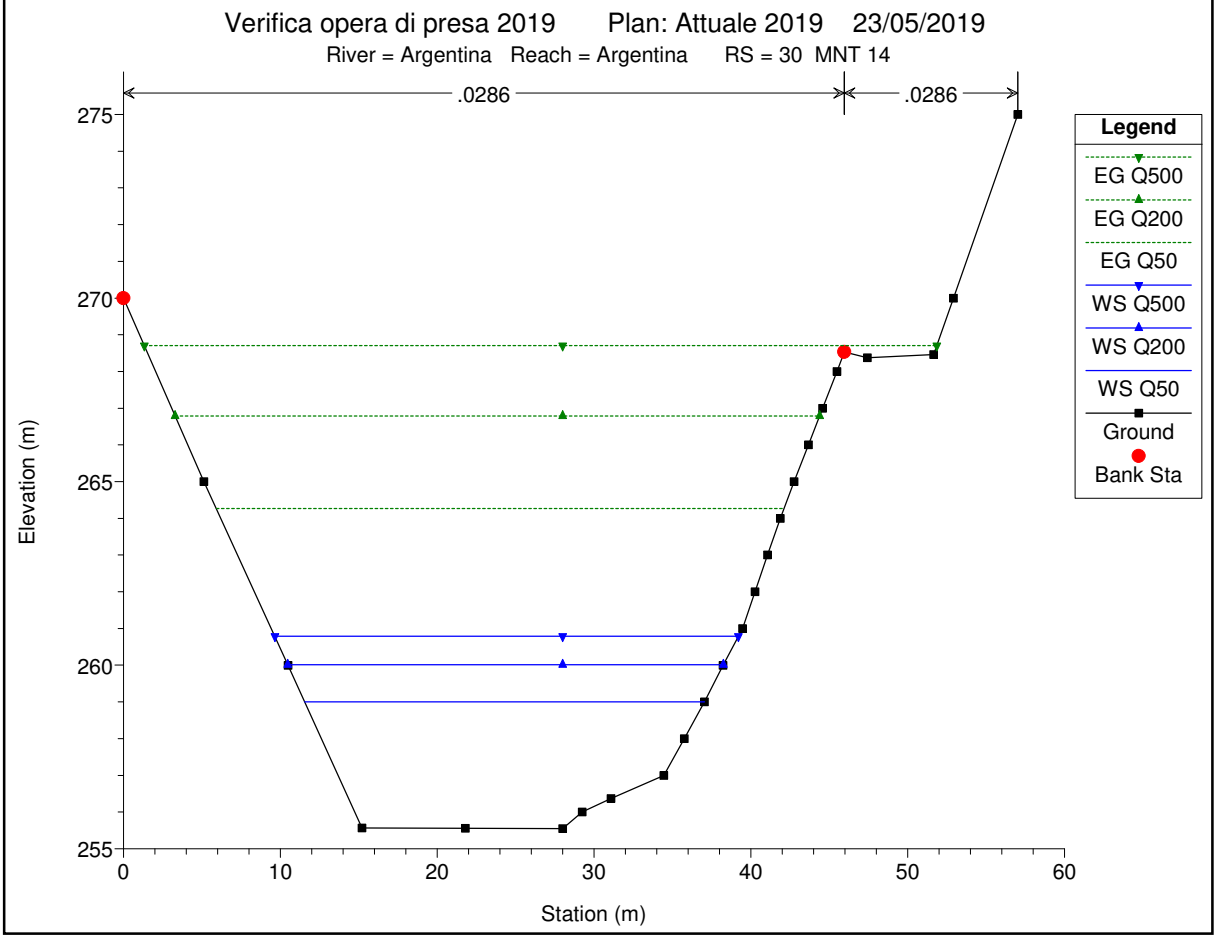

Verifica opera di presa 2019 Plan: Attuale 2019 23/05/2019
River = Argentina Reach = Argentina RS = 80 MNT 9
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
Bank Sta
Elevation (m)
Station (m)
276
274
272
270
268
266
264
262
260
258
0
10
20
30
40
50
60
70

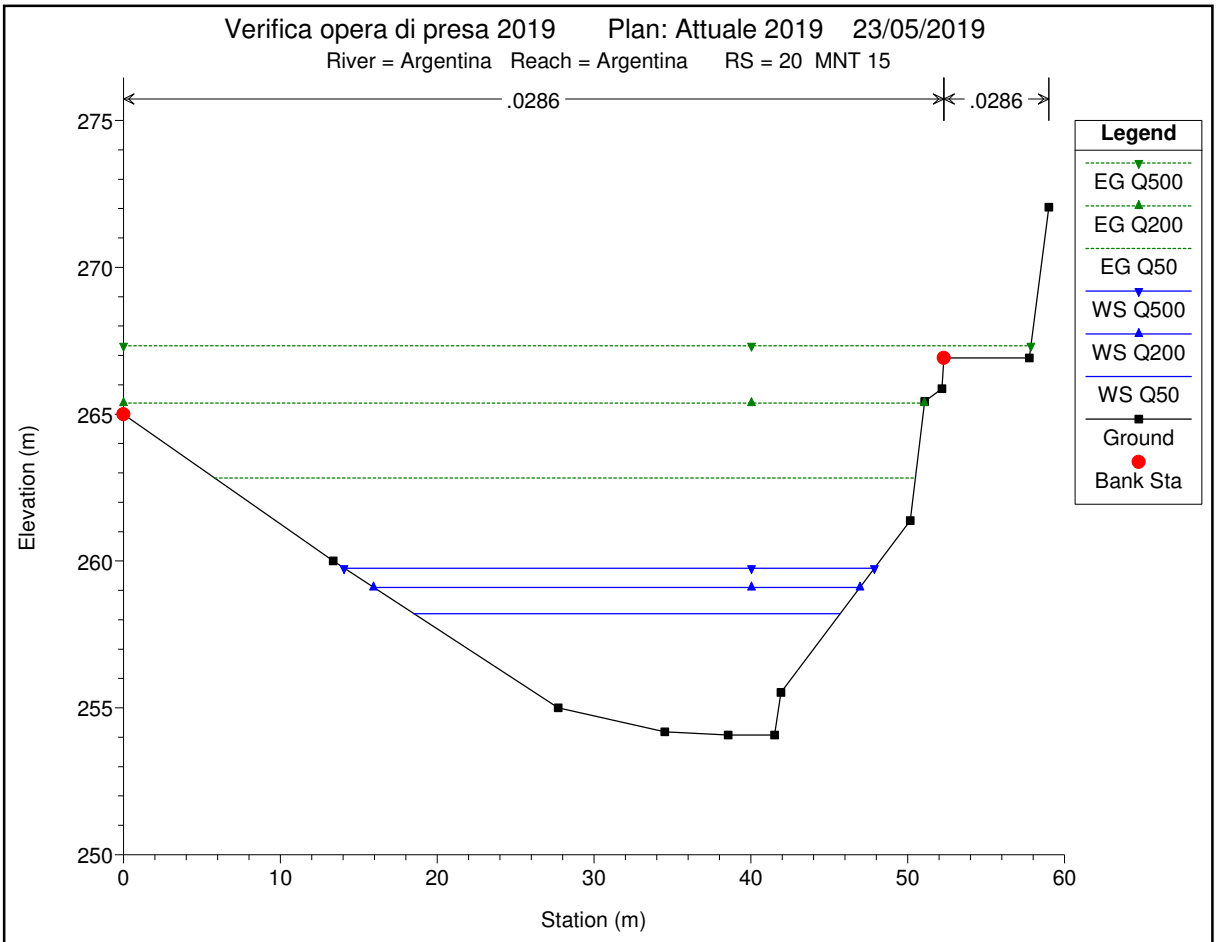

Verifica opera di presa 2019 Plan: Attuale 2019 23/05/2019
River = Argentina Reach = Argentina RS = 70 MNT 10
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
Bank Sta
Elevation (m)
Station (m)
276
274
272
270
268
266
264
262
260
258
0
10
20
30
40
50
60
70

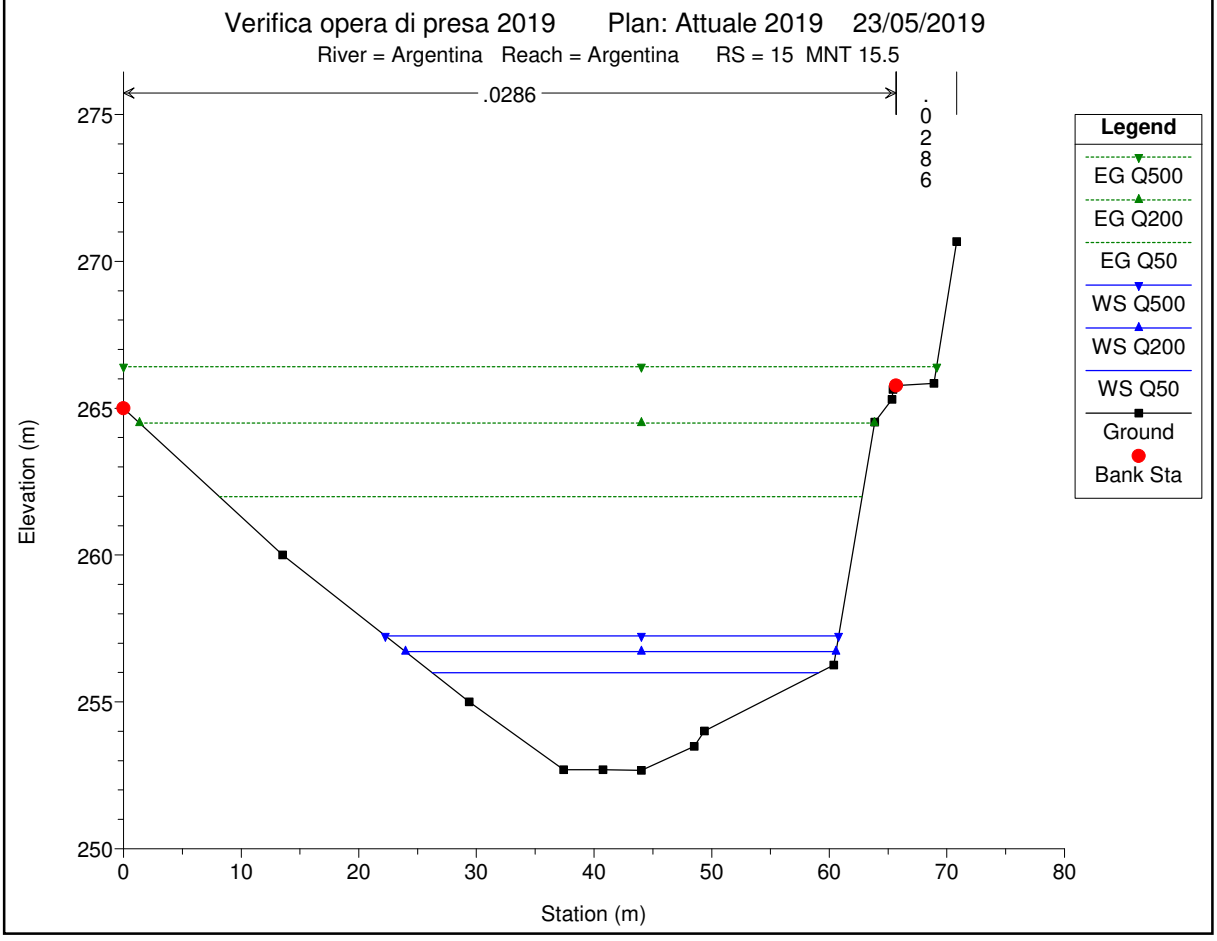

Verifica opera di presa 2019 Plan: Attuale 2019 23/05/2019
River = Argentina Reach = Argentina RS = 60 MNT 11
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
Bank Sta
Elevation (m)
Station (m)
276
274
272
270
268
266
264
262
260
258
256
0
10
20
30
40
50
60
70

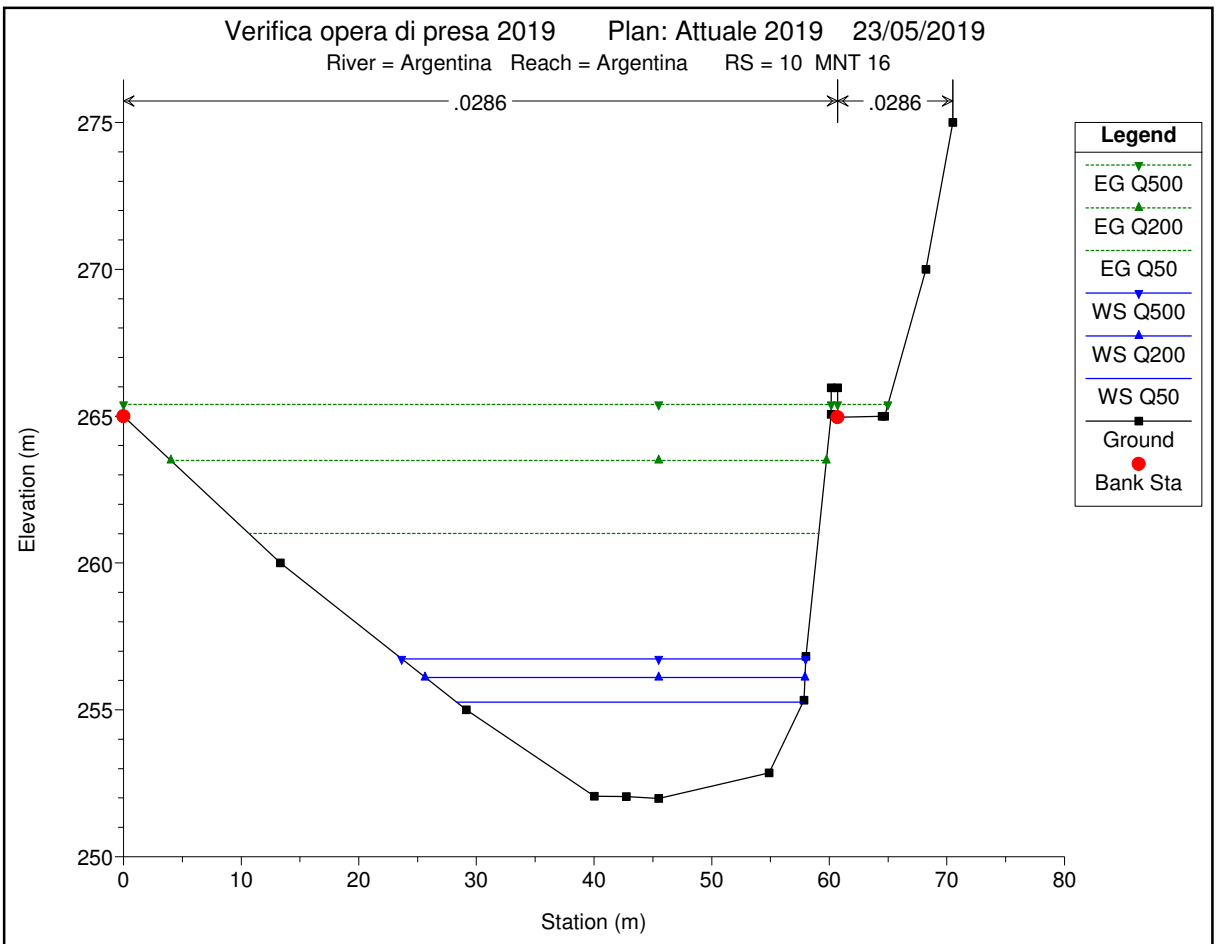

Verifica opera di presa 2019 Plan: Attuale 2019 23/05/2019
River = Argentina Reach = Argentina RS = 50 MNT 12
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
Bank Sta
Elevation (m)
Station (m)
275
270
265
260
255
0
10
20
30
40
50
60
70

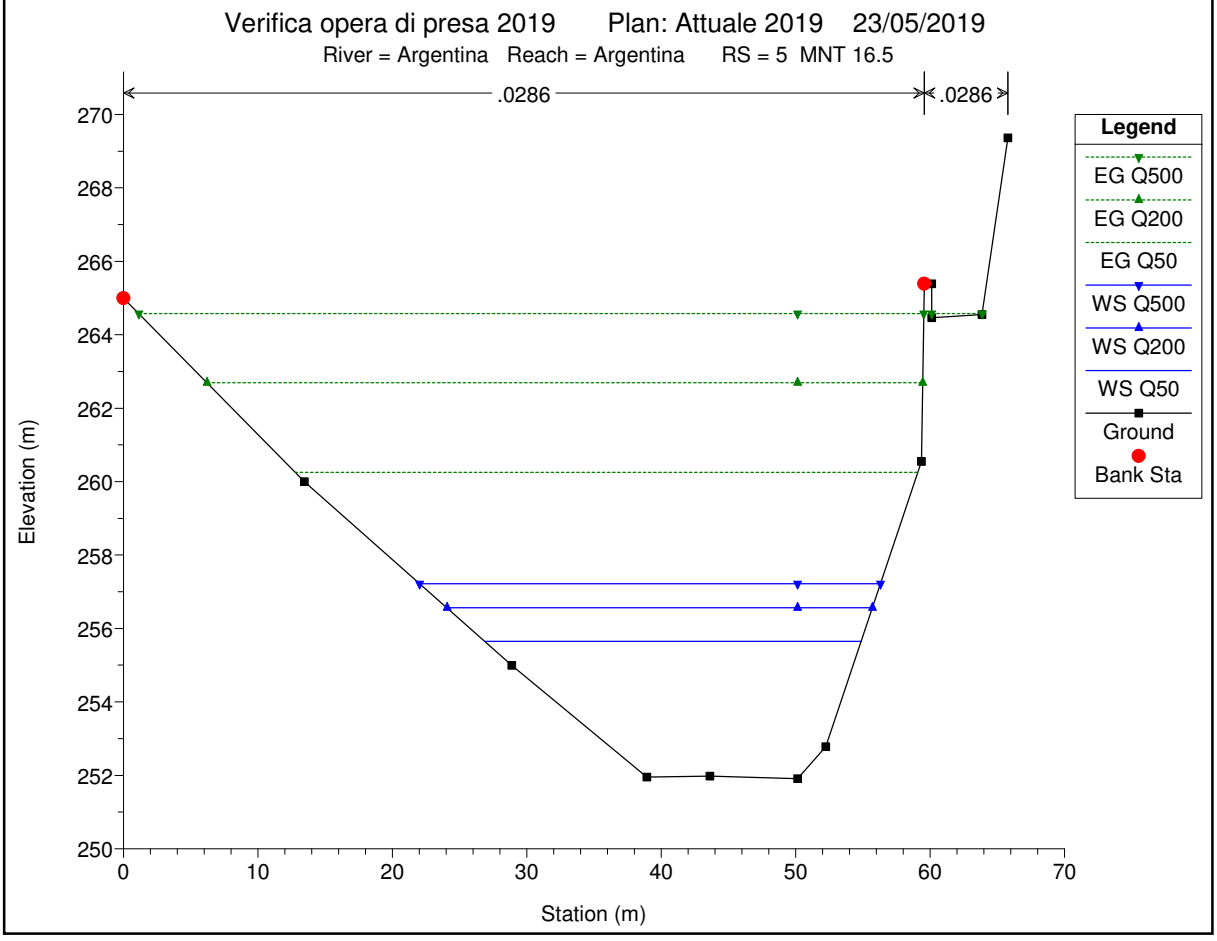

Verifica opera di presa 2019 Plan: Attuale 2019 23/05/2019
River = Argentina Reach = Argentina RS = 40 MNT 13
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
Bank Sta
Elevation (m)
Station (m)
275
270
265
260
255
0
10
20
30
40
50
60
70


Verifica opera di presa 2019 Plan: Attuale 2019 23/05/2019
River = Argentina Reach = Argentina RS = 30 MNT 14
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
Bank Sta
Elevation (m)
Station (m)
275
270
265
260
255
0
10
20
30
40
50
60


Verifica opera di presa 2019 Plan: Attuale 2019 23/05/2019
River = Argentina Reach = Argentina RS = 20 MNT 15
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
Bank Sta
Elevation (m)
Station (m)

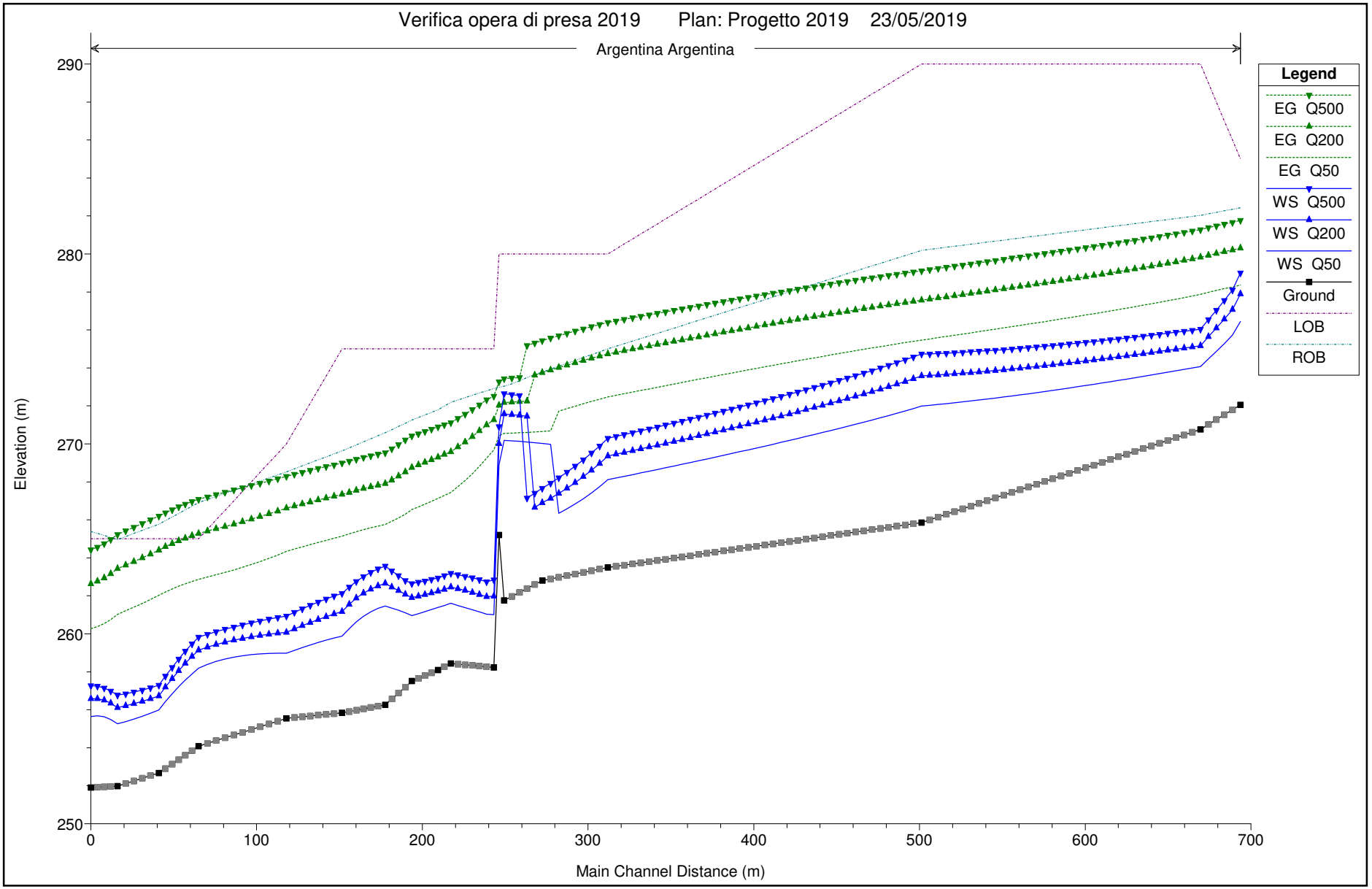

Verifica opera di presa 2019 Plan: Attuale 2019 23/05/2019
River = Argentina Reach = Argentina RS = 15 MNT 15.5
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
Bank Sta
Elevation (m)
Station (m)

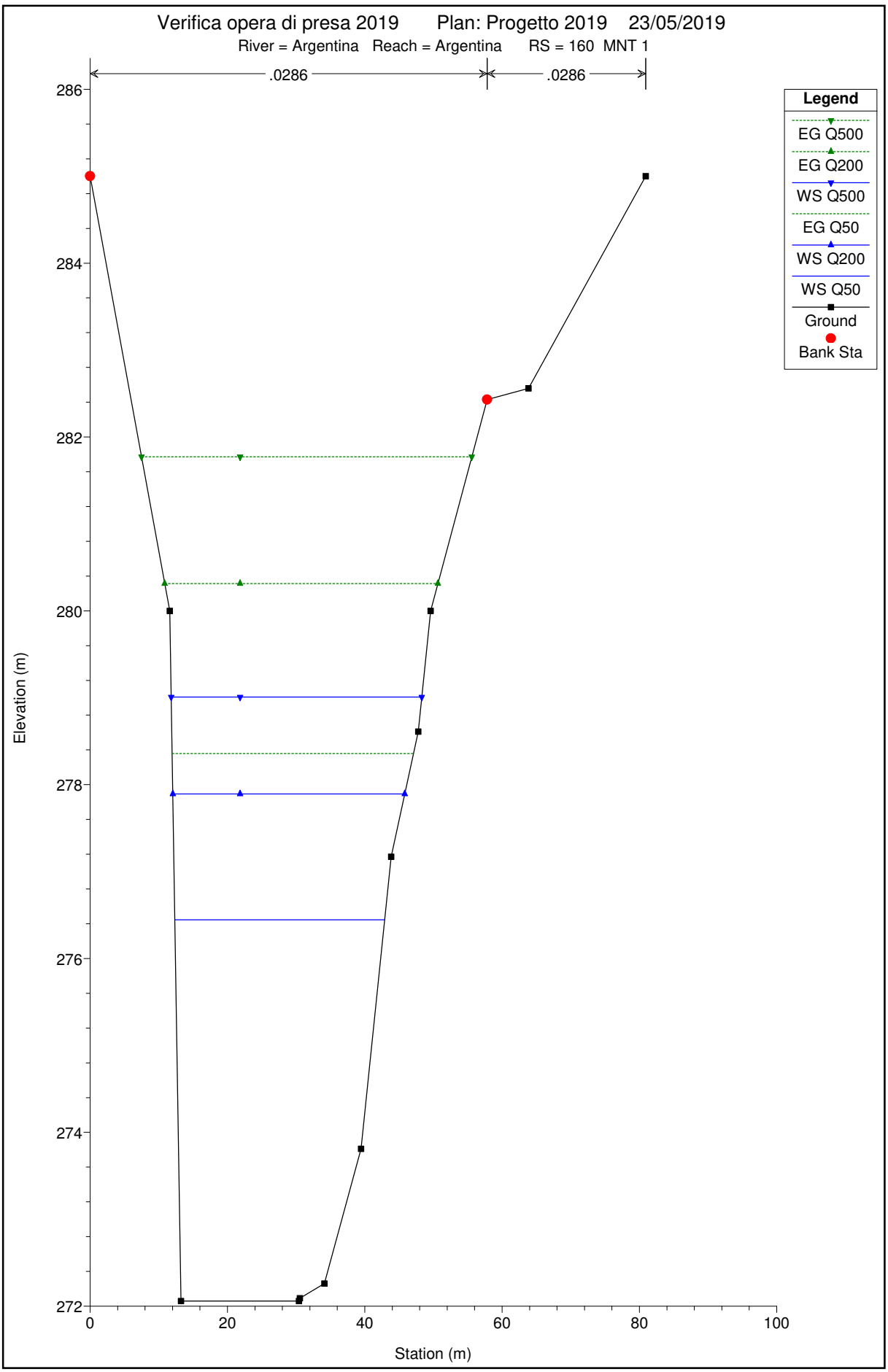

Verifica opera di presa 2019 Plan: Attuale 2019 23/05/2019
River = Argentina Reach = Argentina RS = 10 MNT 16
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
Bank Sta
Elevation (m)
Station (m)

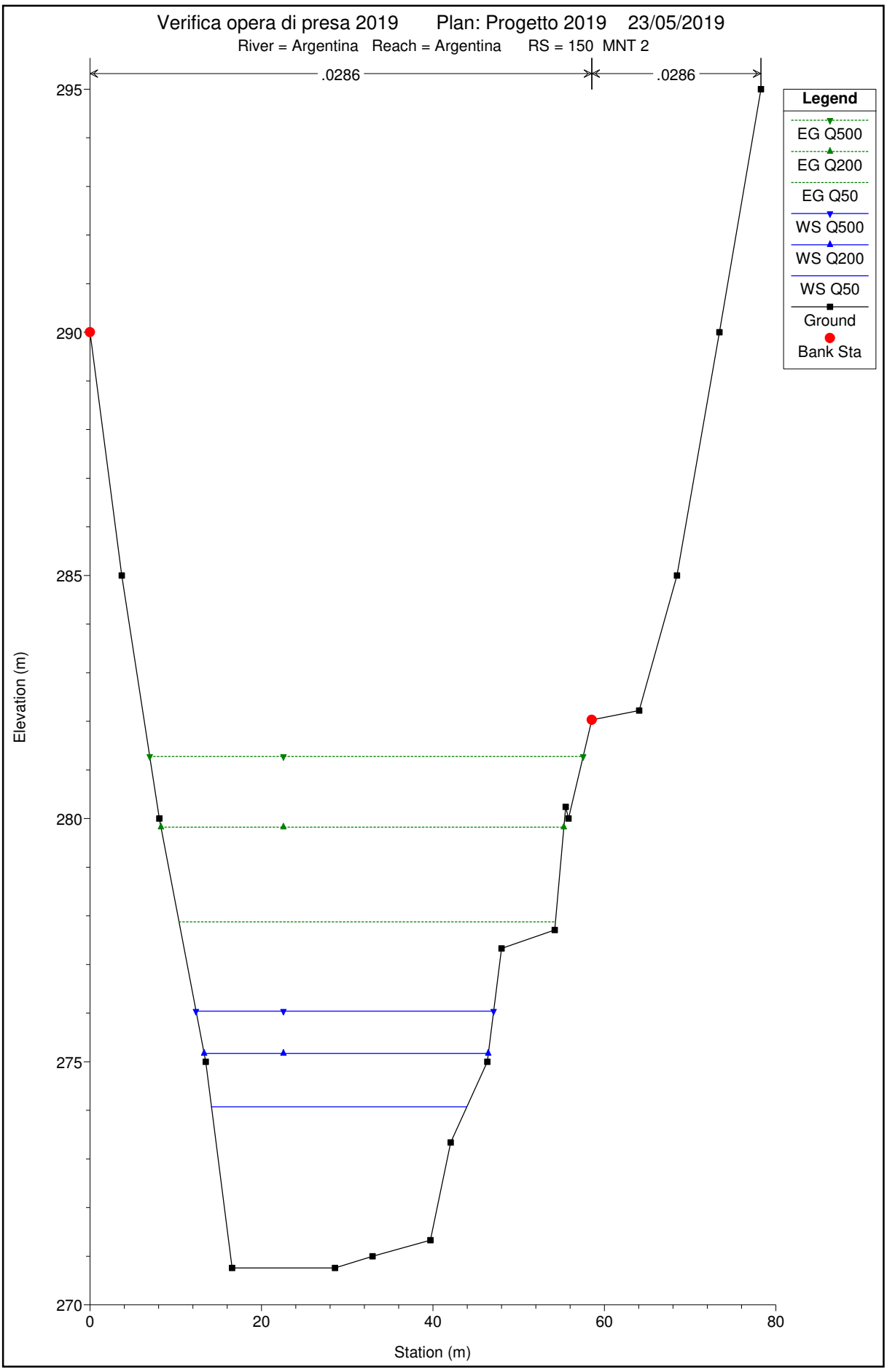

Verifica opera di presa 2019 Plan: Attuale 2019 23/05/2019
River = Argentina Reach = Argentina RS = 5 MNT 16.5
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
Bank Sta
Elevation (m)
Station (m)

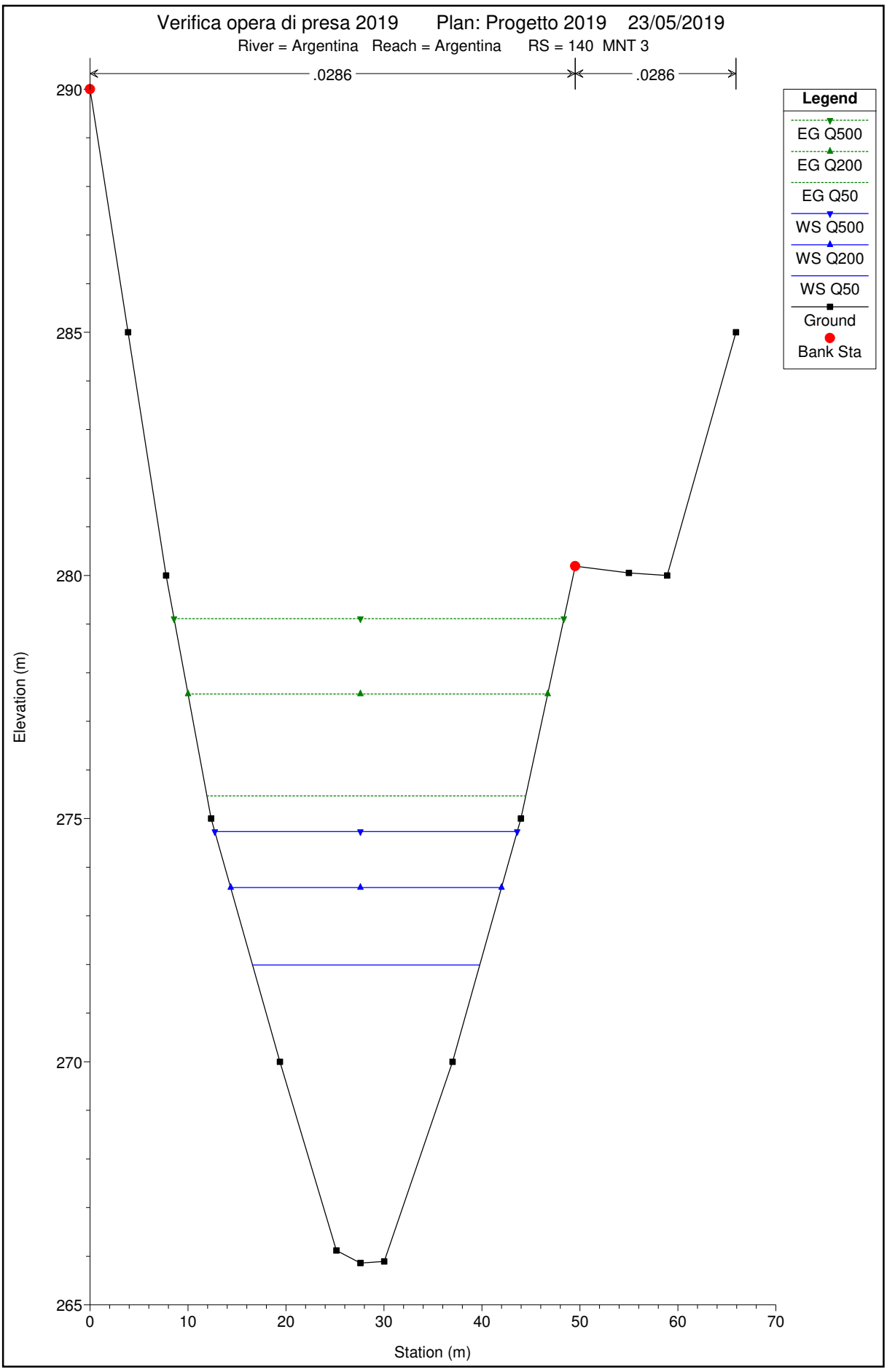
HEC-RAS Plan: Attuale 2019 River: Argentina Reach: Argentina

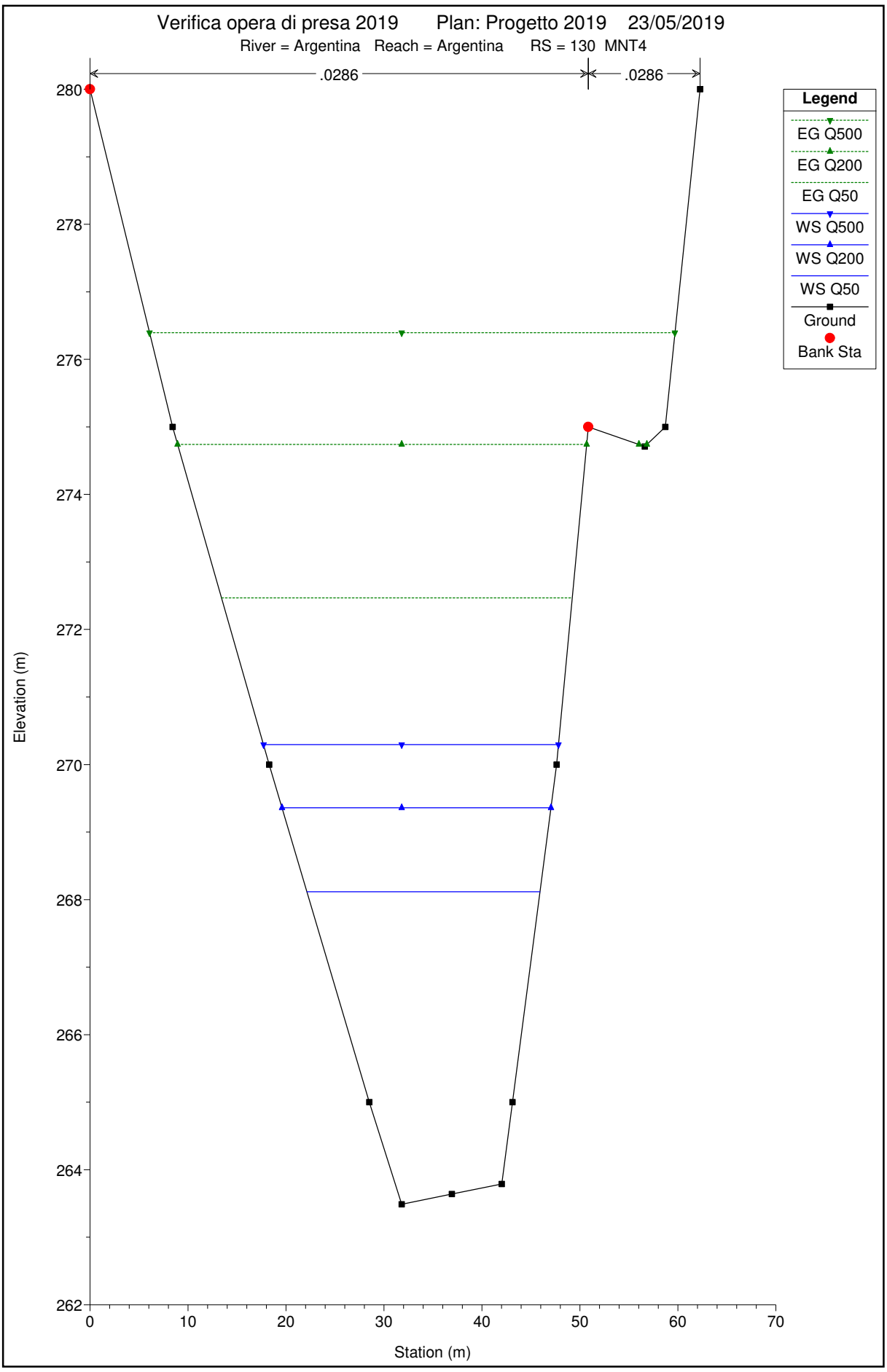
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Argentina	160 MNT 1	Q50	710.00	272.06	276.44	276.44	278.36	0.006290	6.13	115.83	30.56	1.01
Argentina	160 MNT 1	Q200	1117.00	272.06	277.89	277.89	280.31	0.006021	6.89	162.09	33.80	1.00
Argentina	160 MNT 1	Q500	1484.00	272.06	279.01	279.01	281.77	0.005820	7.36	201.51	36.52	1.00
Argentina	150 MNT 2	Q50	710.00	270.76	274.07	275.24	277.88	0.017643	8.64	82.16	29.80	1.66
Argentina	150 MNT 2	Q200	1117.00	270.76	275.17	276.57	279.83	0.015857	9.56	116.86	33.16	1.63
Argentina	150 MNT 2	Q500	1484.00	270.76	276.04	277.84	281.28	0.014376	10.14	146.32	34.72	1.58
Argentina	140 MNT 3	Q50	710.00	265.86	271.99	272.96	275.47	0.011799	8.26	85.93	23.19	1.37
Argentina	140 MNT 3	Q200	1117.00	265.86	273.58	274.63	277.56	0.010356	8.84	126.33	27.64	1.32
Argentina	140 MNT 3	Q500	1484.00	265.86	274.73	275.81	279.11	0.009692	9.27	160.08	30.87	1.30
Argentina	130 MNT4	Q50	710.00	263.49	268.12	269.50	272.47	0.017125	9.24	76.82	23.78	1.64
Argentina	130 MNT4	Q200	1117.00	263.49	269.36	271.07	274.74	0.016408	10.28	108.68	27.45	1.65
Argentina	130 MNT4	Q500	1484.00	263.49	270.29	272.23	276.39	0.015842	10.94	135.61	30.11	1.65
Argentina	120 MNT5	Q50	710.00	262.81	265.93	267.58	271.43	0.028874	10.39	68.31	27.75	2.11
Argentina	120 MNT5	Q200	1117.00	262.81	266.89	268.98	273.75	0.025946	11.60	96.29	30.10	2.07
Argentina	120 MNT5	Q500	1484.00	262.81	267.66	270.05	275.44	0.024037	12.35	120.14	31.89	2.03
Argentina	110 MNT 6 Monte brig	Q50	710.00	261.76	265.06	266.65	270.66	0.036510	10.48	67.72	32.76	2.33
Argentina	110 MNT 6 Monte brig	Q200	1117.00	261.76	265.84	267.90	273.04	0.033038	11.89	93.96	34.39	2.30
Argentina	110 MNT 6 Monte brig	Q500	1484.00	261.76	266.48	268.90	274.76	0.030477	12.75	116.40	35.69	2.25
Argentina	100 MNT 7 corpo brig	Q50	710.00	263.53	265.91	267.17	270.15	0.026981	9.12	77.81	36.76	2.00
Argentina	100 MNT 7 corpo brig	Q200	1117.00	263.53	266.58	268.36	272.58	0.028017	10.86	102.89	38.03	2.11
Argentina	100 MNT 7 corpo brig	Q500	1484.00	263.53	267.15	269.29	274.34	0.027259	11.88	124.90	39.10	2.12
Argentina	90 MNT 8 valle brig	Q50	710.00	258.23	260.88	262.87	269.57	0.075786	13.06	54.36	32.01	3.20
Argentina	90 MNT 8 valle brig	Q200	1117.00	258.23	261.62	264.22	272.02	0.059148	14.29	78.19	32.33	2.93
Argentina	90 MNT 8 valle brig	Q500	1484.00	258.23	262.25	265.24	273.79	0.050558	15.05	98.59	32.65	2.76
Argentina	80 MNT 9	Q50	710.00	258.44	261.64	263.21	267.27	0.036913	10.51	67.58	32.07	2.31
Argentina	80 MNT 9	Q200	1117.00	258.44	262.33	264.45	269.99	0.038844	12.27	91.06	35.20	2.43
Argentina	80 MNT 9	Q500	1484.00	258.44	262.90	265.41	271.94	0.036963	13.32	111.40	36.20	2.42
Argentina	70 MNT 10	Q50	710.00	258.09	261.43	262.99	266.96	0.033633	10.42	68.15	30.56	2.23
Argentina	70 MNT 10	Q200	1117.00	258.09	262.16	264.27	269.65	0.035828	12.13	92.07	33.85	2.35
Argentina	70 MNT 10	Q500	1484.00	258.09	262.76	265.26	271.60	0.033904	13.18	112.61	34.46	2.33
Argentina	60 MNT 11	Q50	710.00	257.51	260.99	262.58	266.41	0.032073	10.32	68.80	30.27	2.19
Argentina	60 MNT 11	Q200	1117.00	257.51	261.79	263.86	269.05	0.032898	11.94	93.55	33.16	2.27
Argentina	60 MNT 11	Q500	1484.00	257.51	262.40	264.87	271.03	0.031660	13.02	113.99	33.93	2.27
Argentina	50 MNT 12	Q50	710.00	256.26	261.53	262.80	265.65	0.018142	8.99	78.98	25.52	1.63
Argentina	50 MNT 12	Q200	1117.00	256.26	262.52	264.26	268.16	0.020015	10.52	106.17	28.80	1.75
Argentina	50 MNT 12	Q500	1484.00	256.26	263.28	265.40	270.08	0.020105	11.55	128.46	29.90	1.78
Argentina	40 MNT 13	Q50	710.00	255.84	259.92	261.54	265.05	0.021725	10.03	70.79	23.44	1.84
Argentina	40 MNT 13	Q200	1117.00	255.84	261.07	263.15	267.55	0.020745	11.28	99.06	25.91	1.84
Argentina	40 MNT 13	Q500	1484.00	255.84	261.93	264.23	269.47	0.020484	12.17	121.96	27.87	1.86
Argentina	30 MNT 14	Q50	710.00	255.55	259.00	260.62	264.27	0.024644	10.17	69.84	25.49	1.96
Argentina	30 MNT 14	Q200	1117.00	255.55	260.01	262.09	266.79	0.023568	11.53	96.86	27.77	1.97
Argentina	30 MNT 14	Q500	1484.00	255.55	260.79	263.22	268.71	0.023104	12.47	119.01	29.55	1.98
Argentina	20 MNT 15	Q50	710.00	254.08	258.21	259.69	262.83	0.021806	9.53	74.53	27.20	1.84
Argentina	20 MNT 15	Q200	1117.00	254.08	259.10	261.08	265.38	0.023721	11.10	100.64	31.03	1.97
Argentina	20 MNT 15	Q500	1484.00	254.08	259.75	262.07	267.33	0.024959	12.19	121.71	33.81	2.05
Argentina	15	Q50	710.00	252.67	256.00	257.67	261.99	0.039799	10.85	65.46	32.86	2.45
Argentina	15	Q200	1117.00	252.67	256.71	258.87	264.49	0.039262	12.36	90.36	36.58	2.51
Argentina	15	Q500	1484.00	252.67	257.25	259.78	266.42	0.038310	13.42	110.61	38.52	2.53
Argentina	10 MNT 16	Q50	710.00	251.98	255.27	256.95	261.01	0.032796	10.61	66.89	29.47	2.25
Argentina	10 MNT 16	Q200	1117.00	251.98	256.10	258.28	263.49	0.031702	12.04	92.75	32.28	2.27
Argentina	10 MNT 16	Q500	1484.00	251.98	256.73	259.28	265.40	0.031326	13.04	113.79	34.34	2.29
Argentina	5	Q50	710.00	251.91	255.65	257.12	260.26	0.021900	9.51	74.68	27.99	1.86
Argentina	5	Q200	1117.00	251.91	256.56	258.49	262.69	0.022963	10.97	101.82	31.64	1.95
Argentina	5	Q500	1484.00	251.91	257.22	259.51	264.57	0.023843	12.02	123.51	34.27	2.02

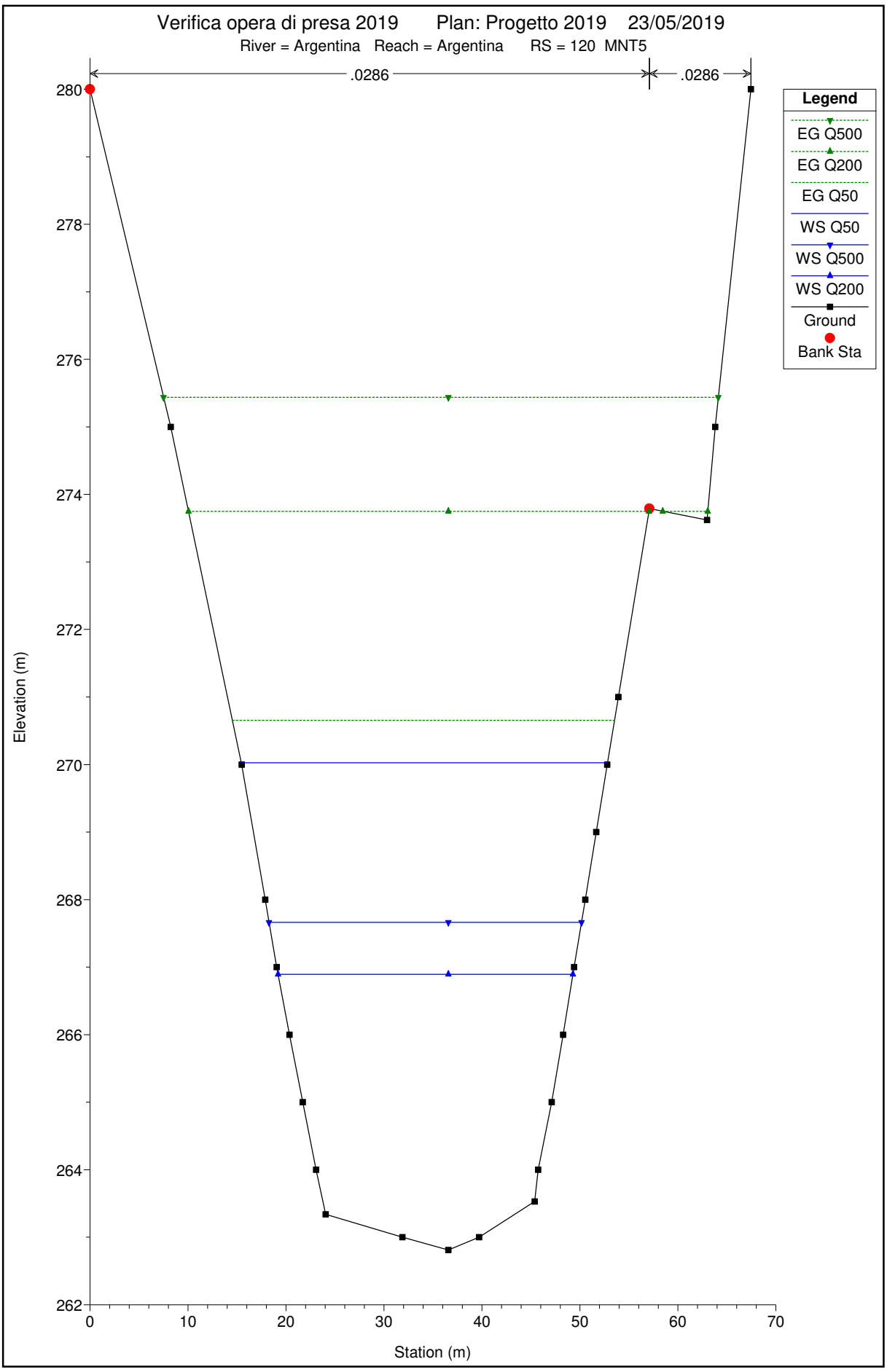

Verifica opera di presa 2019 Plan: Progetto 2019 23/05/2019
Argentina Argentina
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
LOB
ROB
Elevation (m)
290
280
270
260
250
0
100
200
300
400
500
600
700
Main Channel Distance (m)

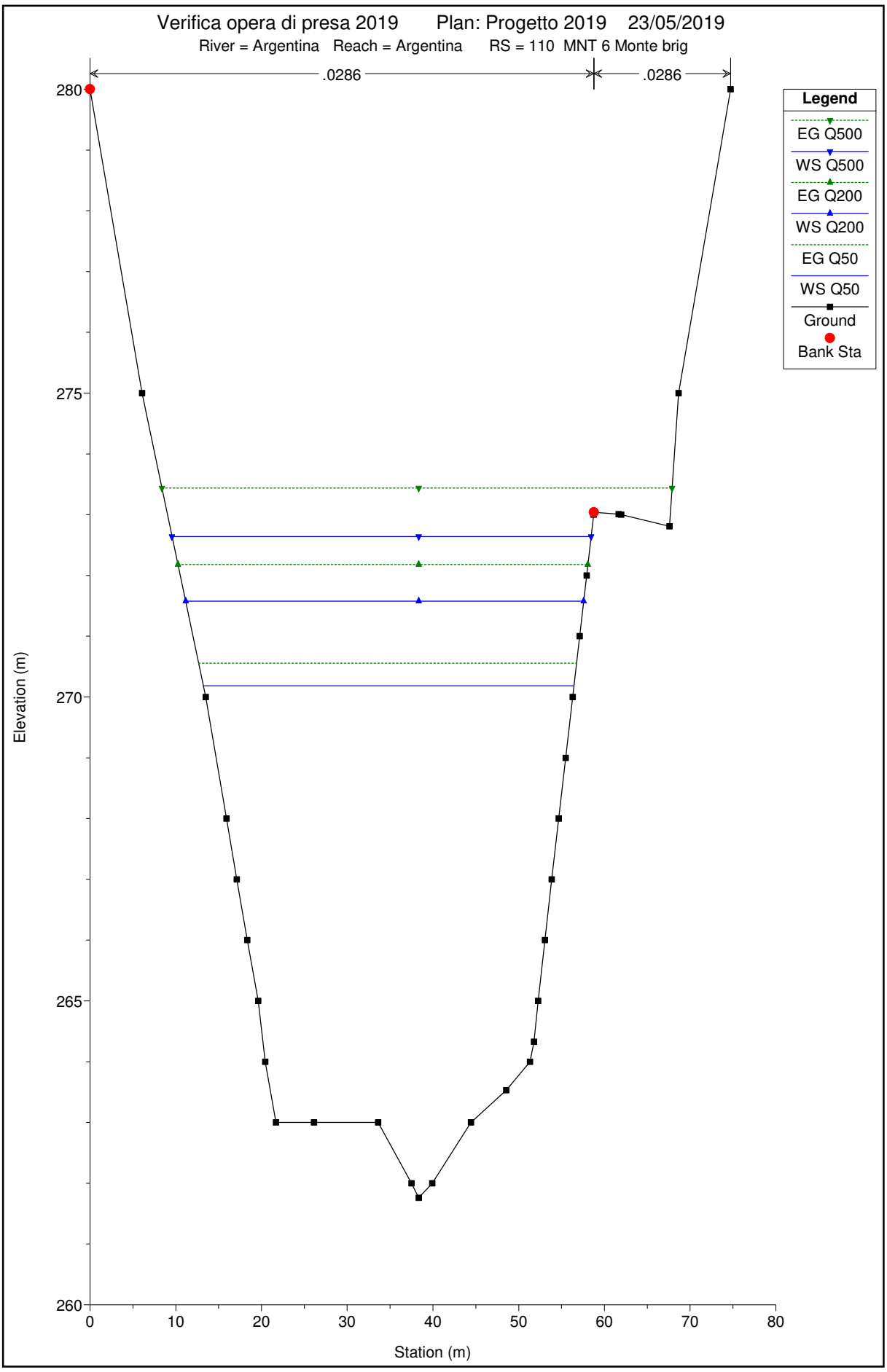

Verifica opera di presa 2019 Plan: Progetto 2019 23/05/2019
River = Argentina Reach = Argentina RS = 160 MNT 1
.0286
.0286
Legend
EG Q500
EG Q200
WS Q500
EG Q50
WS Q200
WS Q50
Ground
Bank Sta
Elevation (m)
286
284
282
280
278
276
274
272
0
20
40
60
80
100
Station (m)

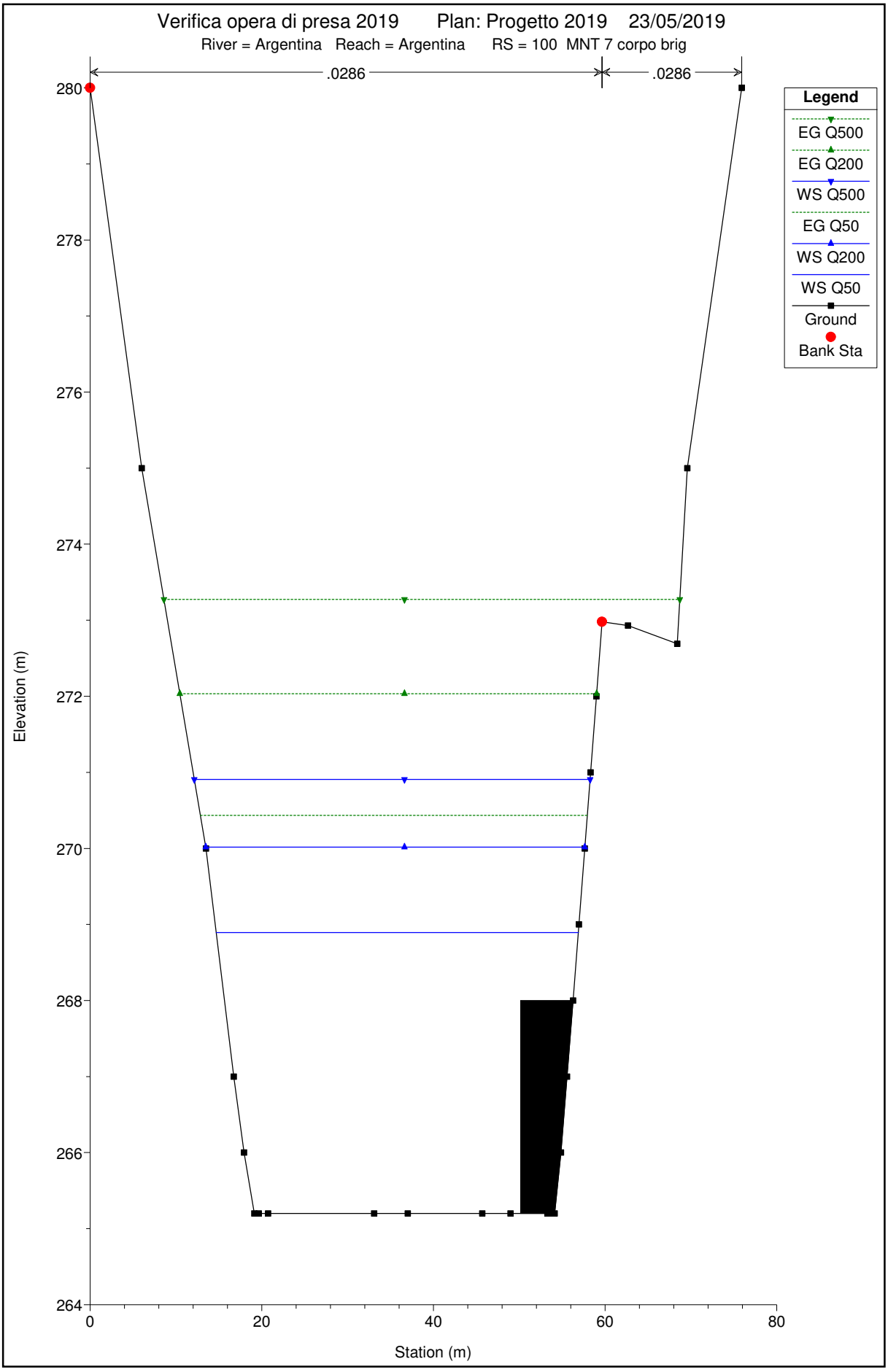

Verifica opera di presa 2019 Plan: Progetto 2019 23/05/2019
River = Argentina Reach = Argentina RS = 150 MNT 2
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
Bank Sta
295
290
285
280
275
270
Elevation (m)
0
20
40
60
80
Station (m)

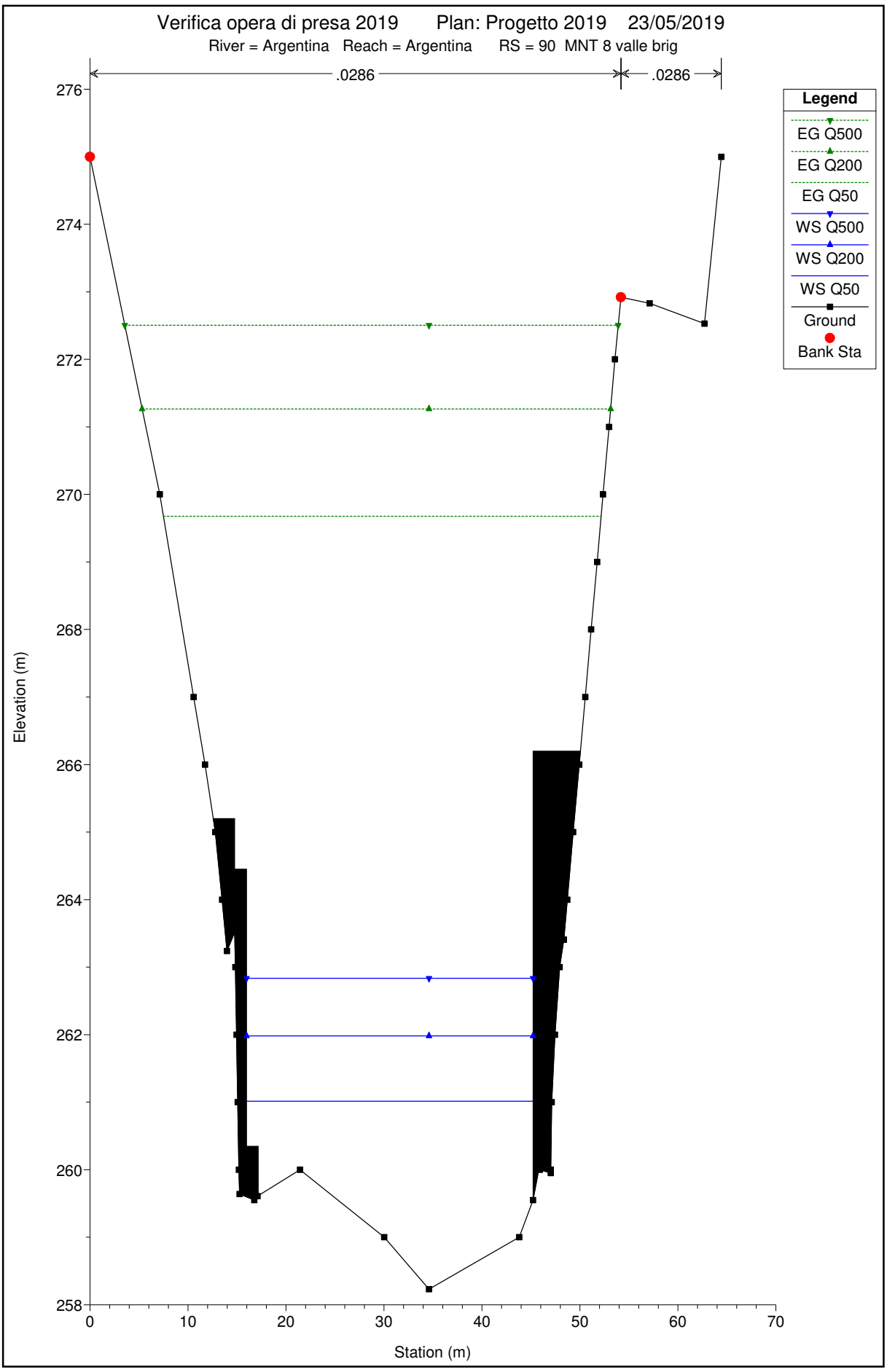

Verifica opera di presa 2019 Plan: Progetto 2019 23/05/2019
River = Argentina Reach = Argentina RS = 140 MNT 3
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
Bank Sta
290
285
280
275
270
265
Elevation (m)
0
10
20
30
40
50
60
70
Station (m)

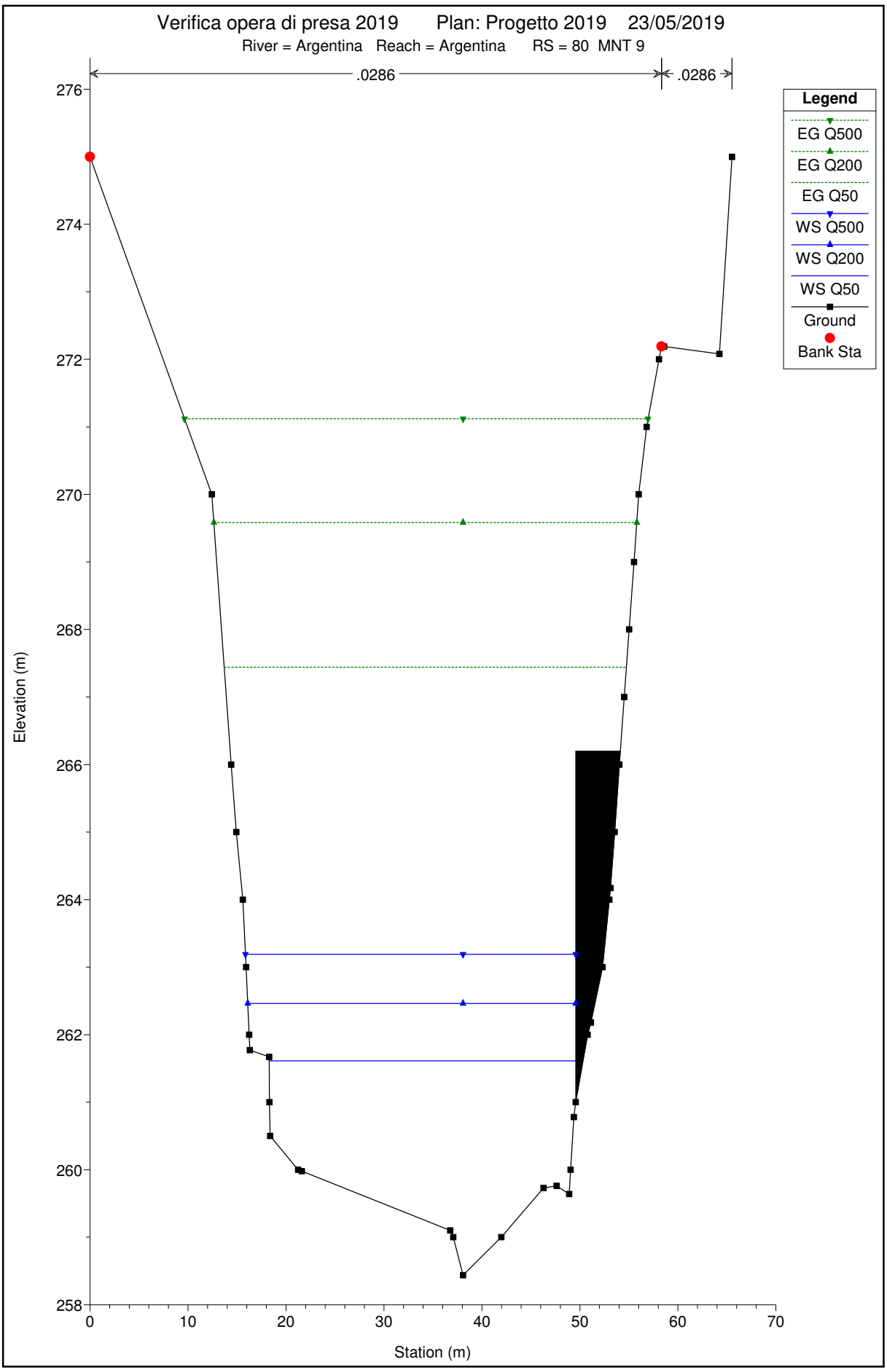

Verifica opera di presa 2019 Plan: Progetto 2019 23/05/2019
River = Argentina Reach = Argentina RS = 130 MNT4
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
Bank Sta
Elevation (m)
Station (m)
280
278
276
274
272
270
268
266
264
262
0
10
20
30
40
50
60
70

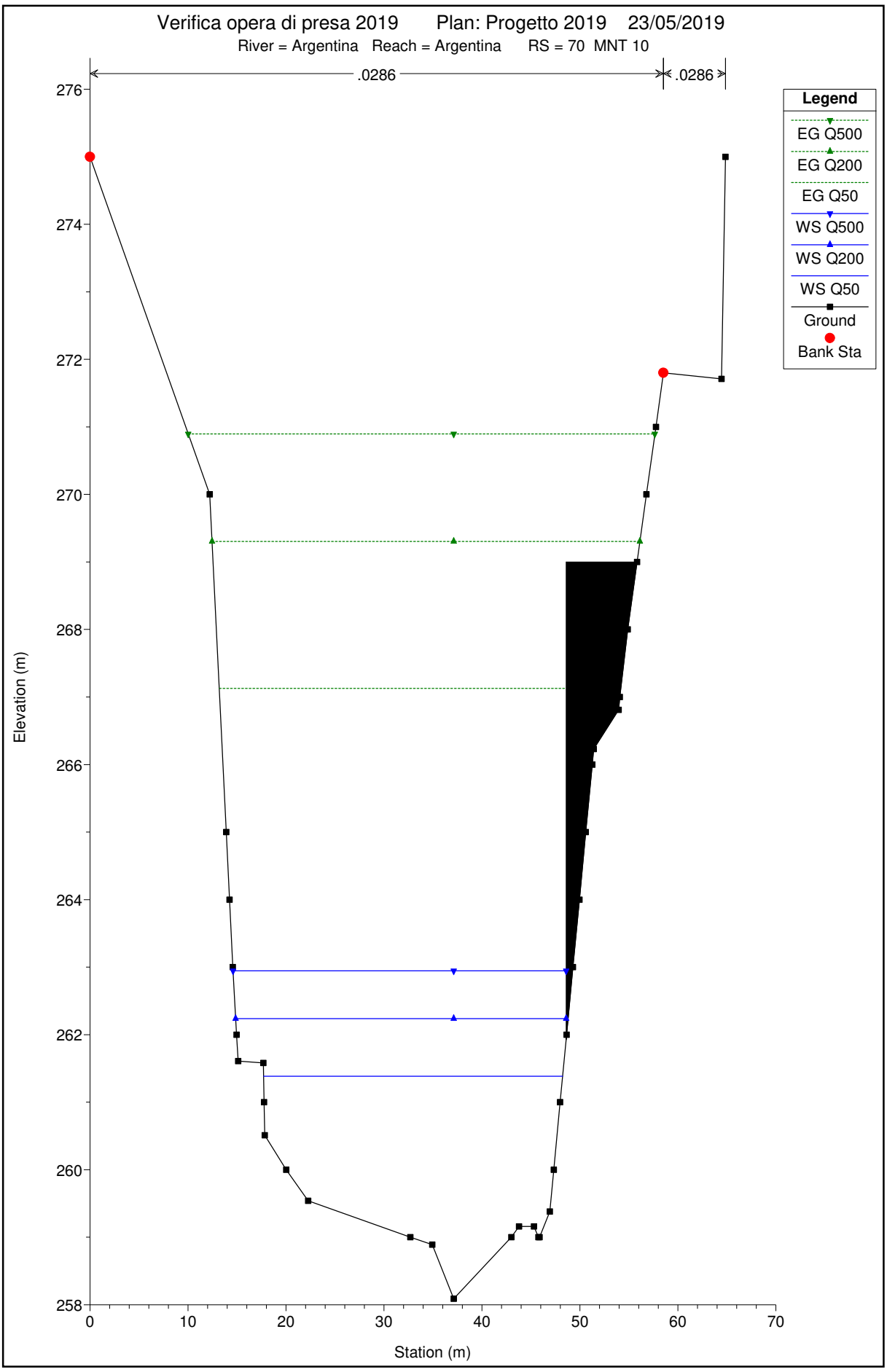

Verifica opera di presa 2019 Plan: Progetto 2019 23/05/2019
River = Argentina Reach = Argentina RS = 120 MNT5
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q50
WS Q500
WS Q200
Ground
Bank Sta
Elevation (m)
280
278
276
274
272
270
268
266
264
262
0
10
20
30
40
50
60
70
Station (m)

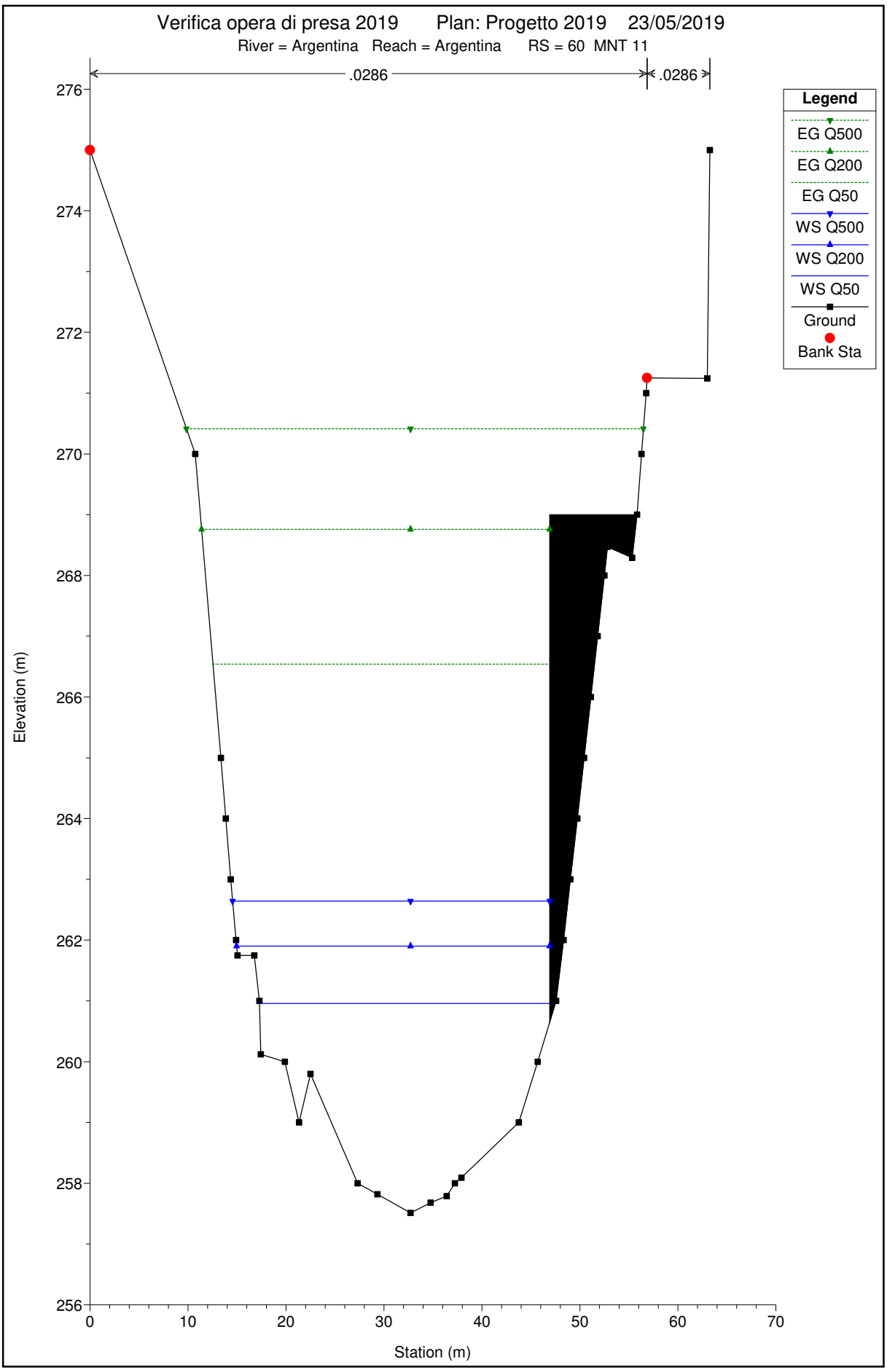

Verifica opera di presa 2019 Plan: Progetto 2019 23/05/2019
River = Argentina Reach = Argentina RS = 110 MNT 6 Monte brig
.0286
.0286
Legend
EG Q500
WS Q500
EG Q200
WS Q200
EG Q50
WS Q50
Ground
Bank Sta
Elevation (m)
280
275
270
265
260
0
10
20
30
40
50
60
70
80
Station (m)

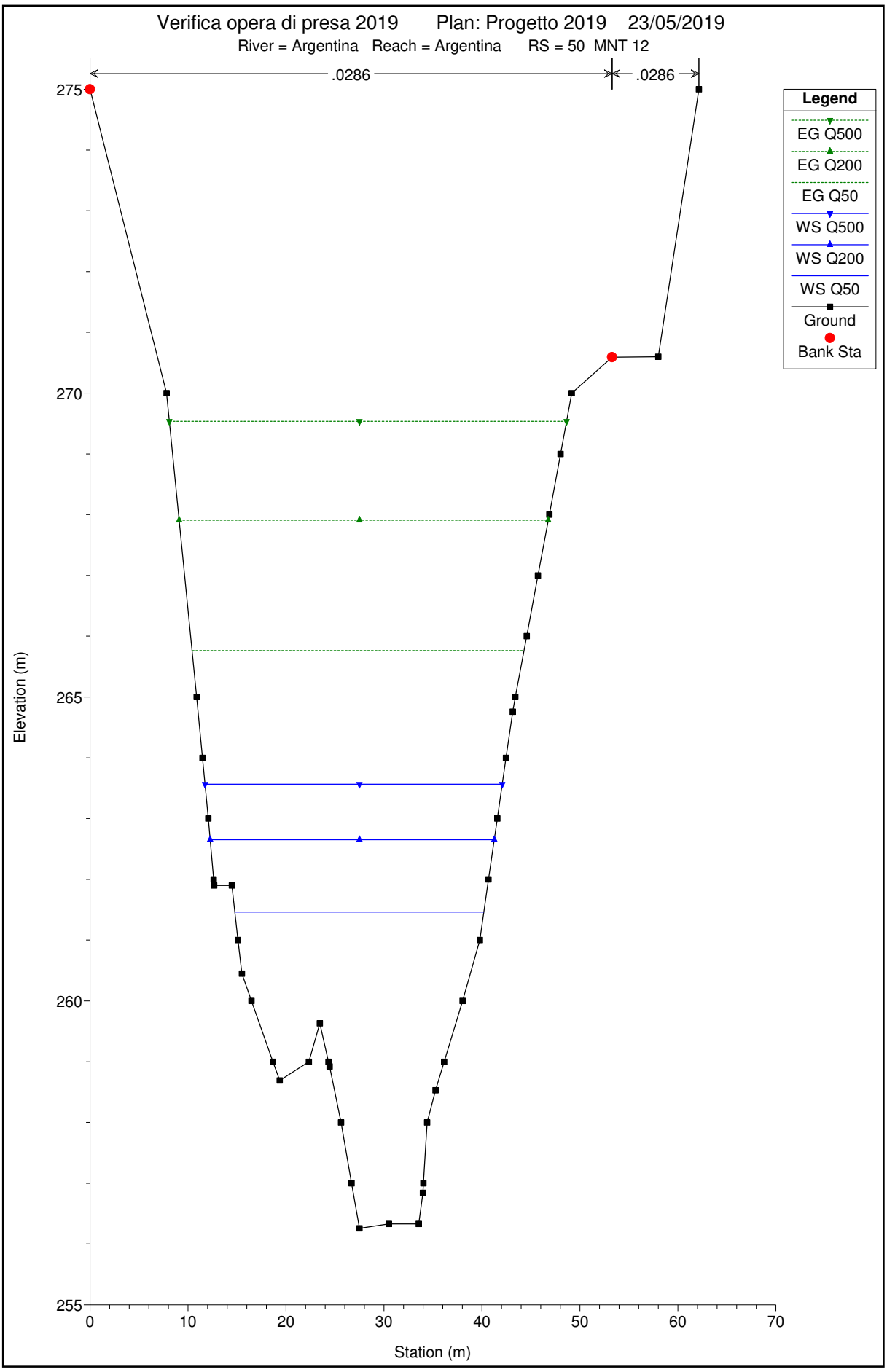

Verifica opera di presa 2019 Plan: Progetto 2019 23/05/2019
River = Argentina Reach = Argentina RS = 100 MNT 7 corpo brig
.0286
.0286
Legend
EG Q500
EG Q200
WS Q500
EG Q50
WS Q200
WS Q50
Ground
Bank Sta
Elevation (m)
280
278
276
274
272
270
268
266
264
0
20
40
60
80
Station (m)

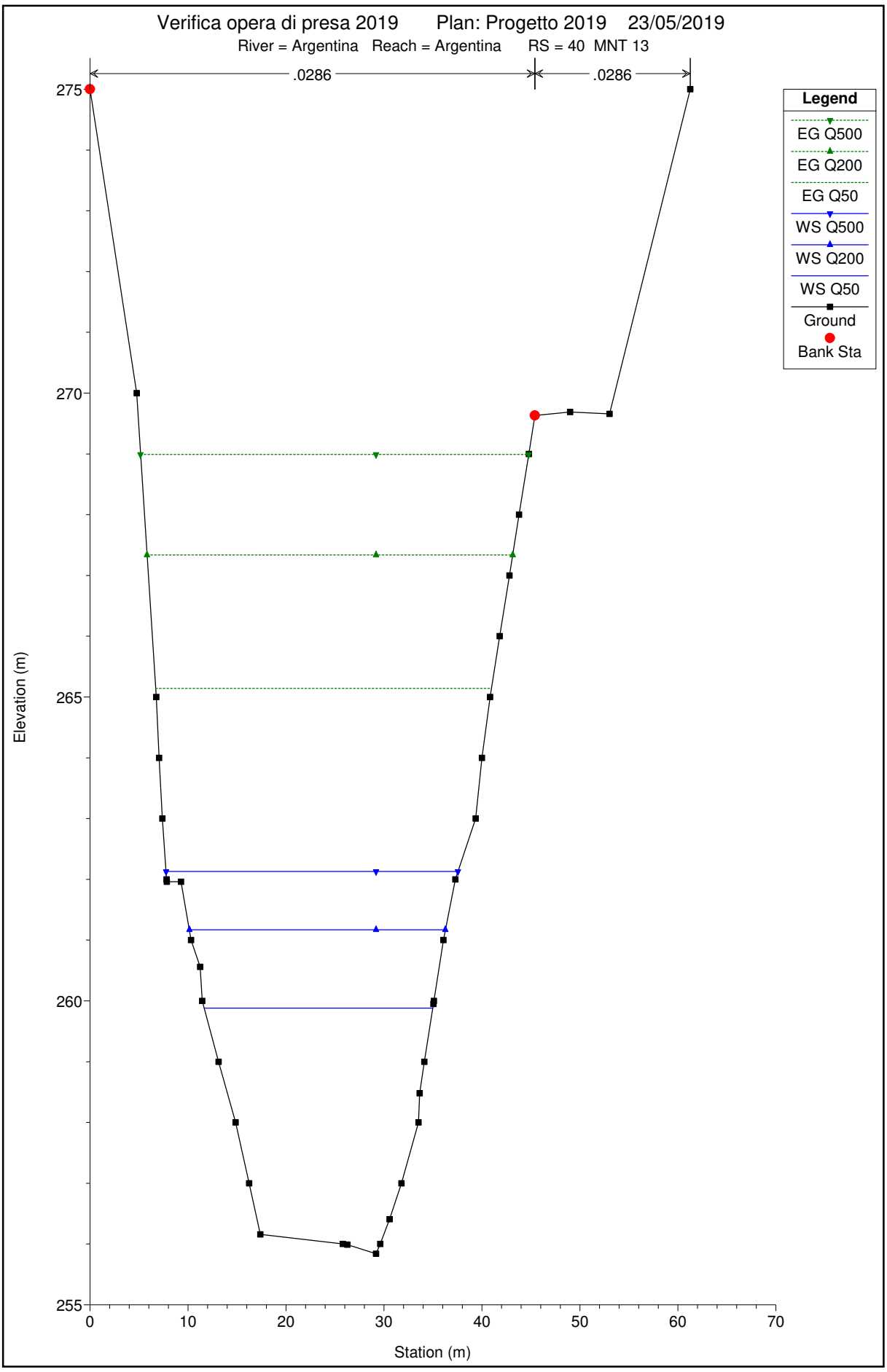

Verifica opera di presa 2019 Plan: Progetto 2019 23/05/2019
River = Argentina Reach = Argentina RS = 90 MNT 8 valle brig
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
Bank Sta
Elevation (m)
276
274
272
270
268
266
264
262
260
258
0
10
20
30
40
50
60
70
Station (m)

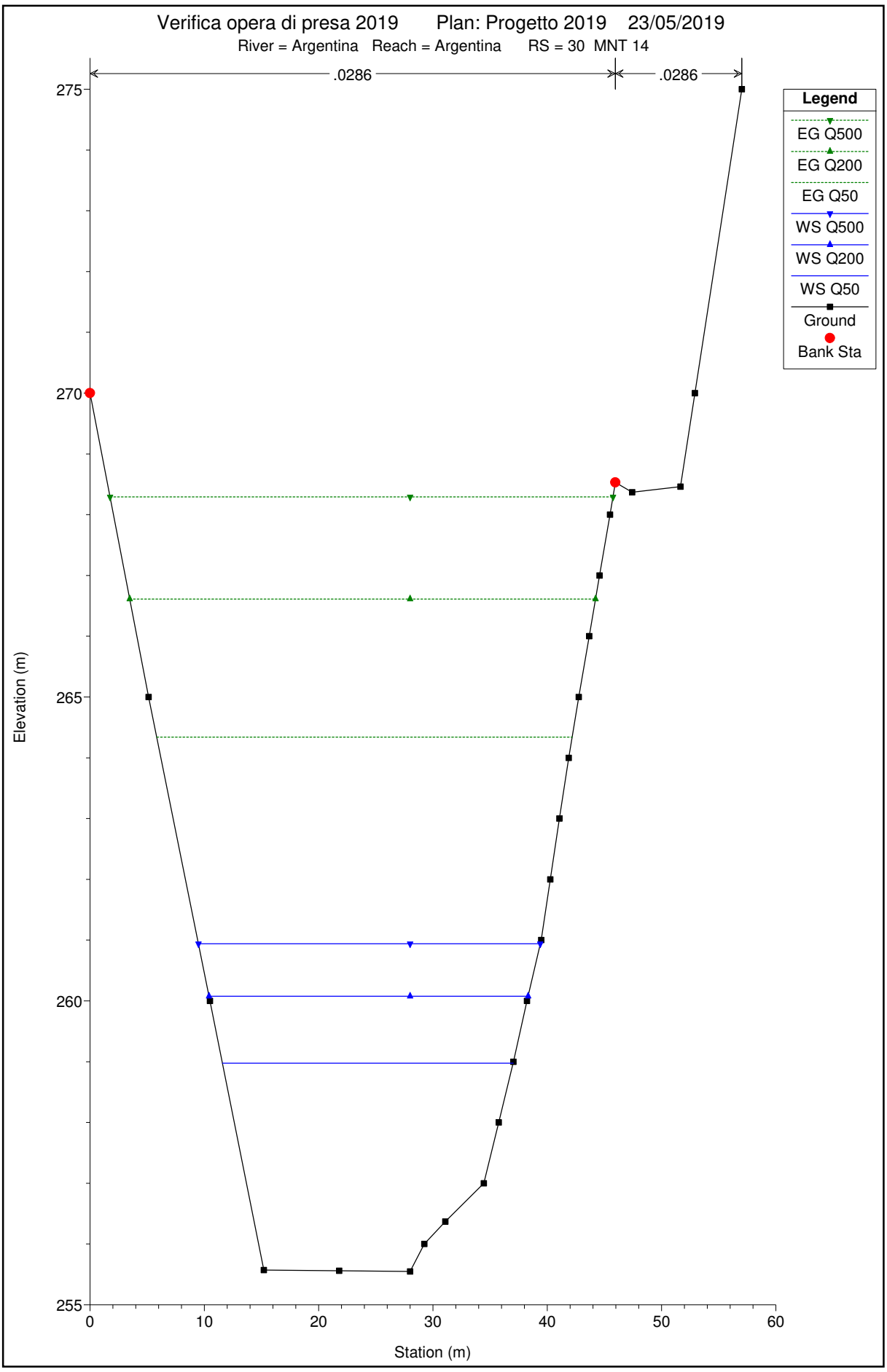

Verifica opera di presa 2019 Plan: Progetto 2019 23/05/2019
River = Argentina Reach = Argentina RS = 80 MNT 9
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
Bank Sta
Elevation (m)
276
274
272
270
268
266
264
262
260
258
0
10
20
30
40
50
60
70
Station (m)

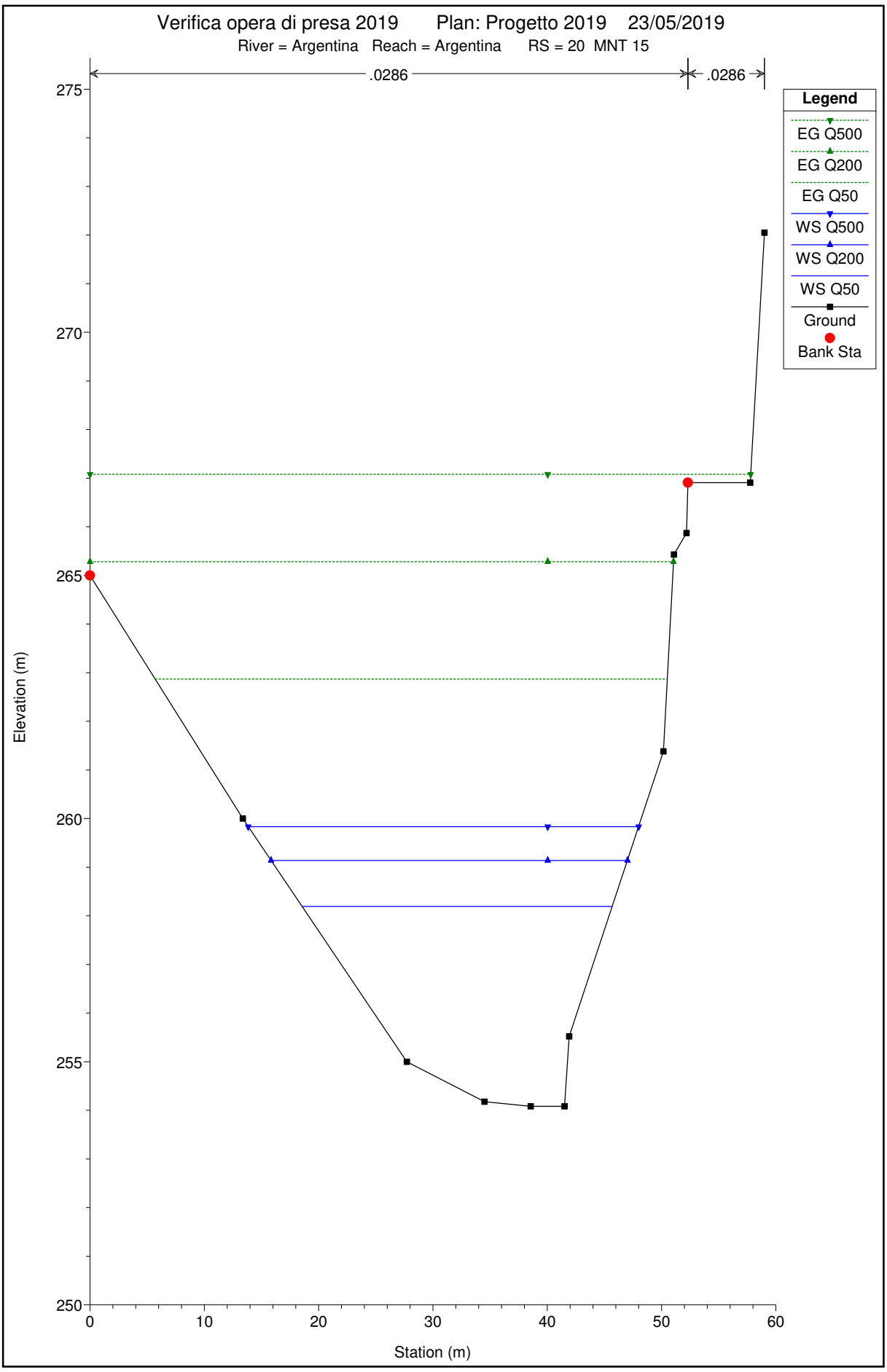

Verifica opera di presa 2019 Plan: Progetto 2019 23/05/2019
River = Argentina Reach = Argentina RS = 70 MNT 10
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
Bank Sta
Elevation (m)
276
274
272
270
268
266
264
262
260
258
0
10
20
30
40
50
60
70
Station (m)

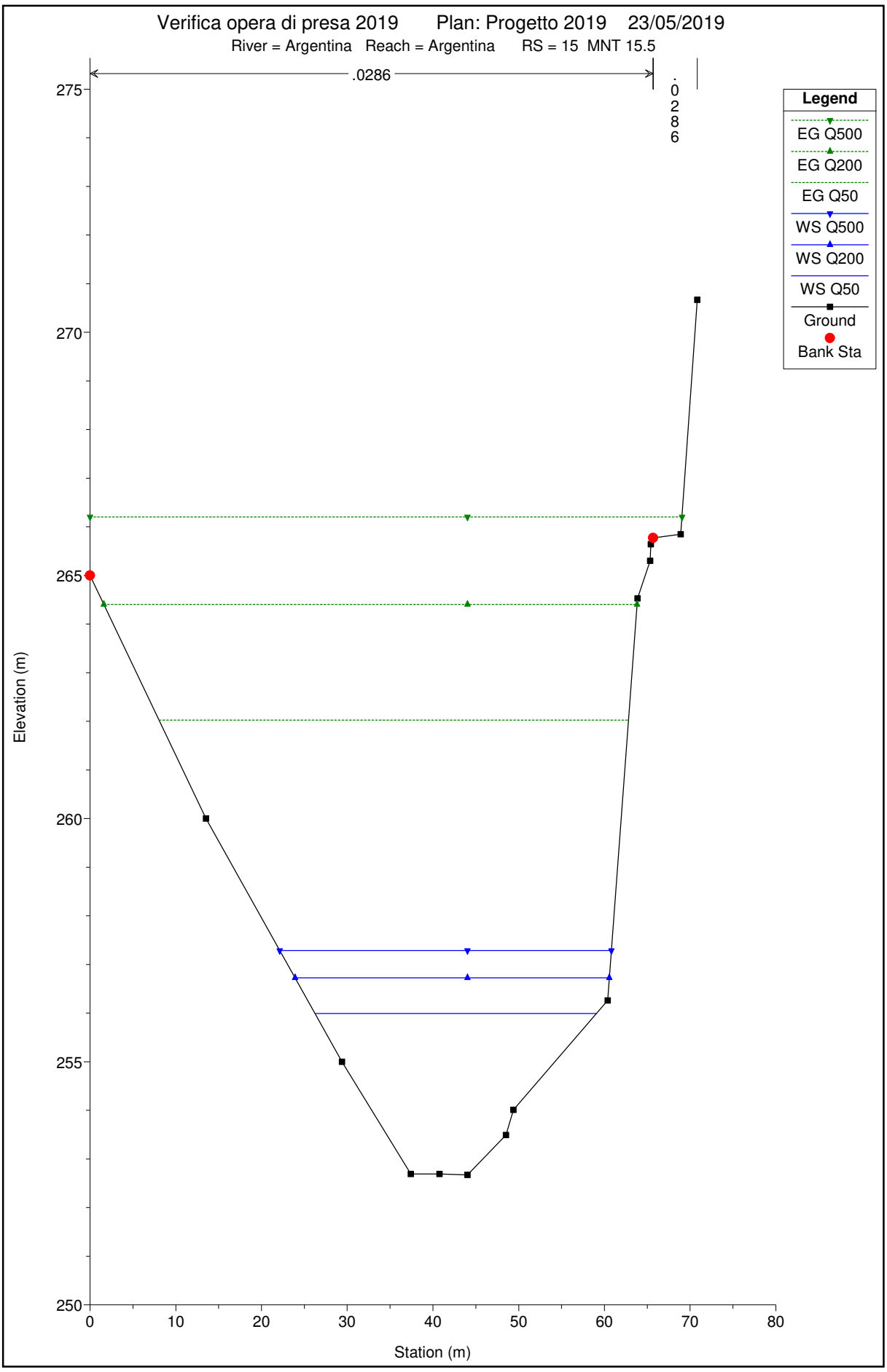

Verifica opera di presa 2019 Plan: Progetto 2019 23/05/2019
River = Argentina Reach = Argentina RS = 60 MNT 11
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
Bank Sta
Elevation (m)
276
274
272
270
268
266
264
262
260
258
256
0
10
20
30
40
50
60
70
Station (m)

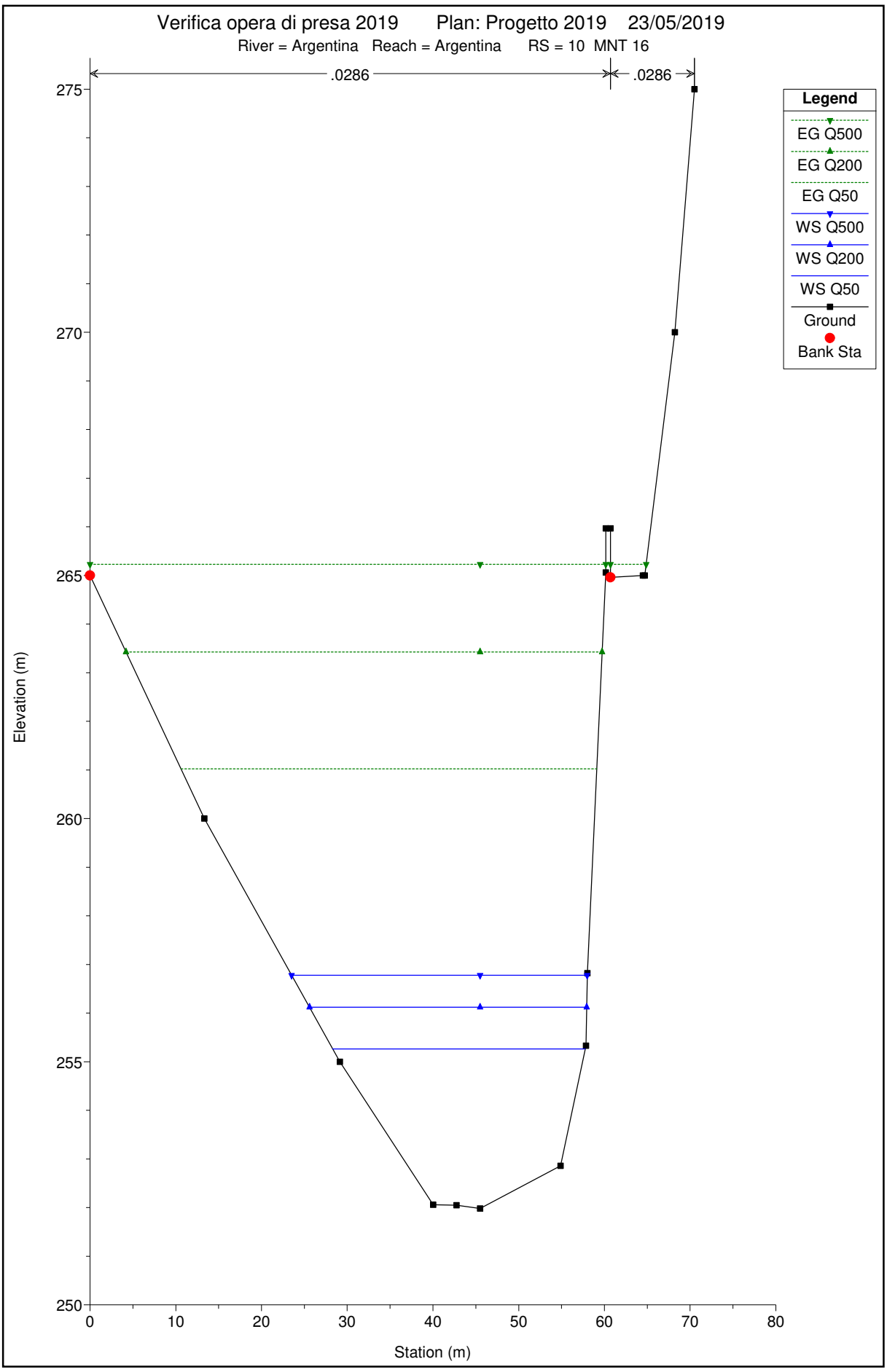

Verifica opera di presa 2019 Plan: Progetto 2019 23/05/2019
River = Argentina Reach = Argentina RS = 50 MNT 12
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
Bank Sta
Elevation (m)
275
270
265
260
255
0
10
20
30
40
50
60
70
Station (m)

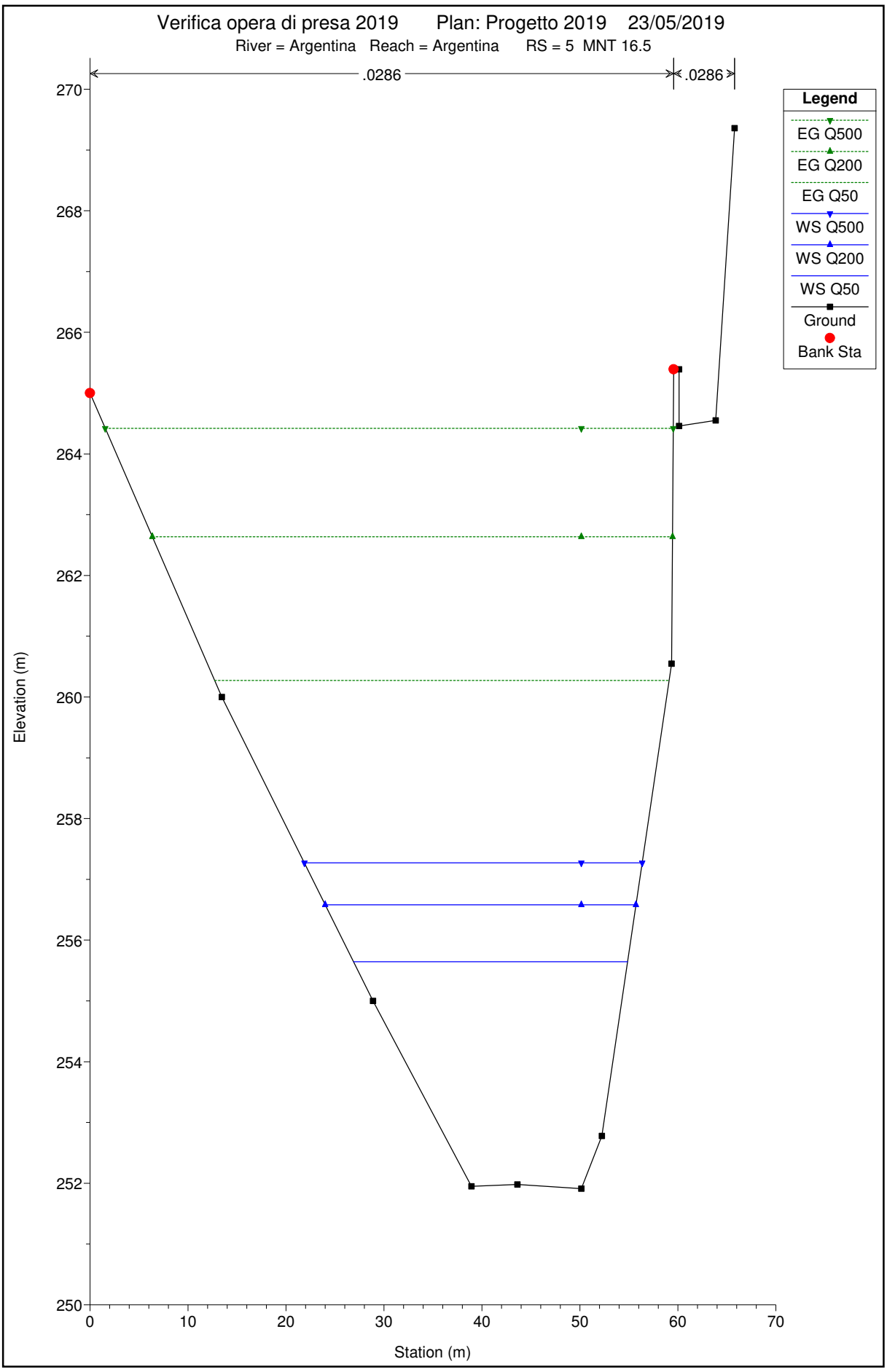

Verifica opera di presa 2019 Plan: Progetto 2019 23/05/2019
River = Argentina Reach = Argentina RS = 40 MNT 13
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
Bank Sta
Elevation (m)
275
270
265
260
255
0
10
20
30
40
50
60
70
Station (m)


Verifica opera di presa 2019 Plan: Progetto 2019 23/05/2019
River = Argentina Reach = Argentina RS = 30 MNT 14
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
Bank Sta
Elevation (m)
275
270
265
260
255
0
10
20
30
40
50
60
Station (m)


Verifica opera di presa 2019 Plan: Progetto 2019 23/05/2019
River = Argentina Reach = Argentina RS = 20 MNT 15
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
Bank Sta
Elevation (m)
Station (m)
275
270
265
260
255
250
0
10
20
30
40
50
60

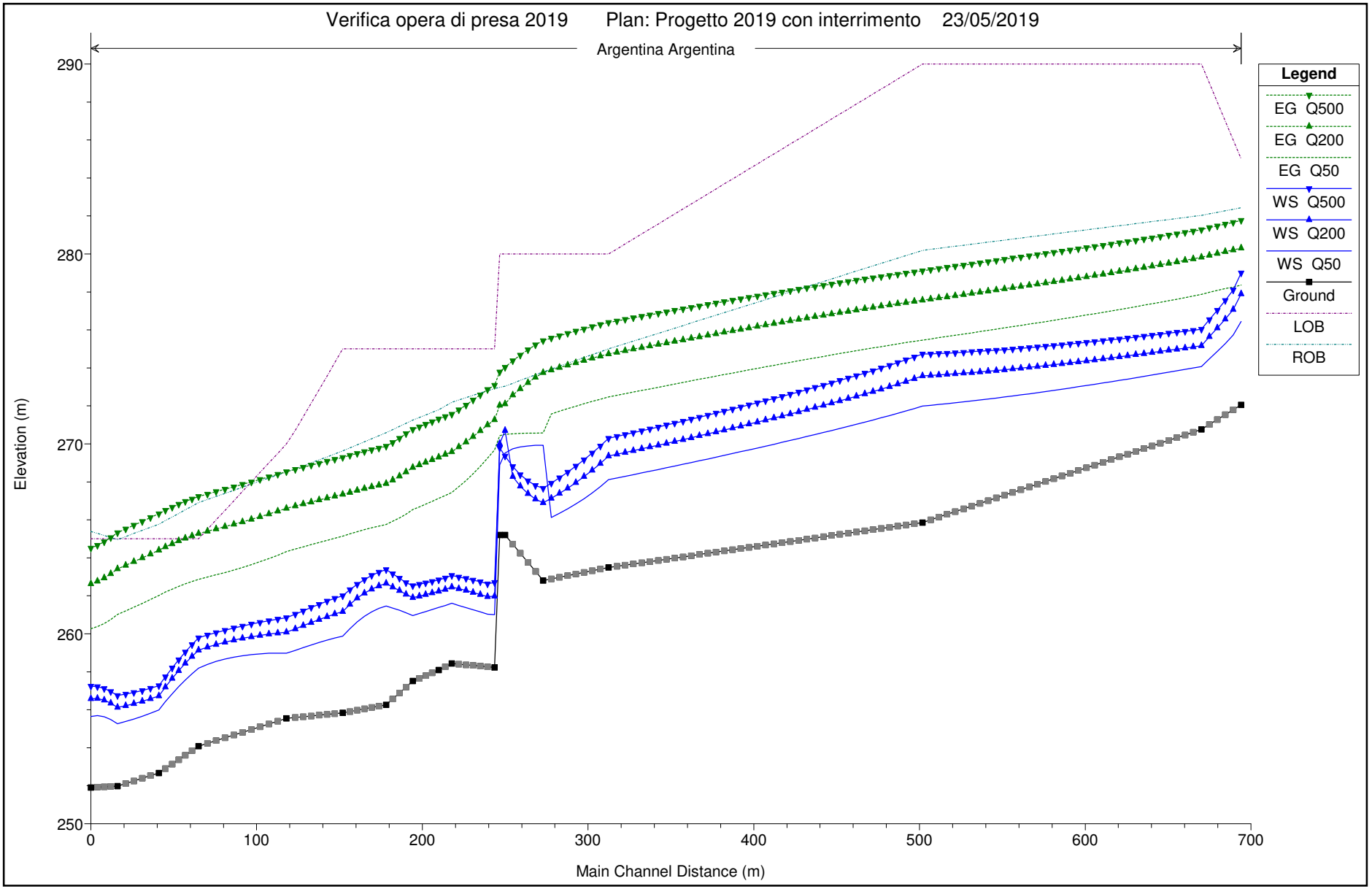

Verifica opera di presa 2019 Plan: Progetto 2019 23/05/2019
River = Argentina Reach = Argentina RS = 15 MNT 15.5
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
Bank Sta
Elevation (m)
Station (m)
275
270
265
260
255
250
0
10
20
30
40
50
60
70
80

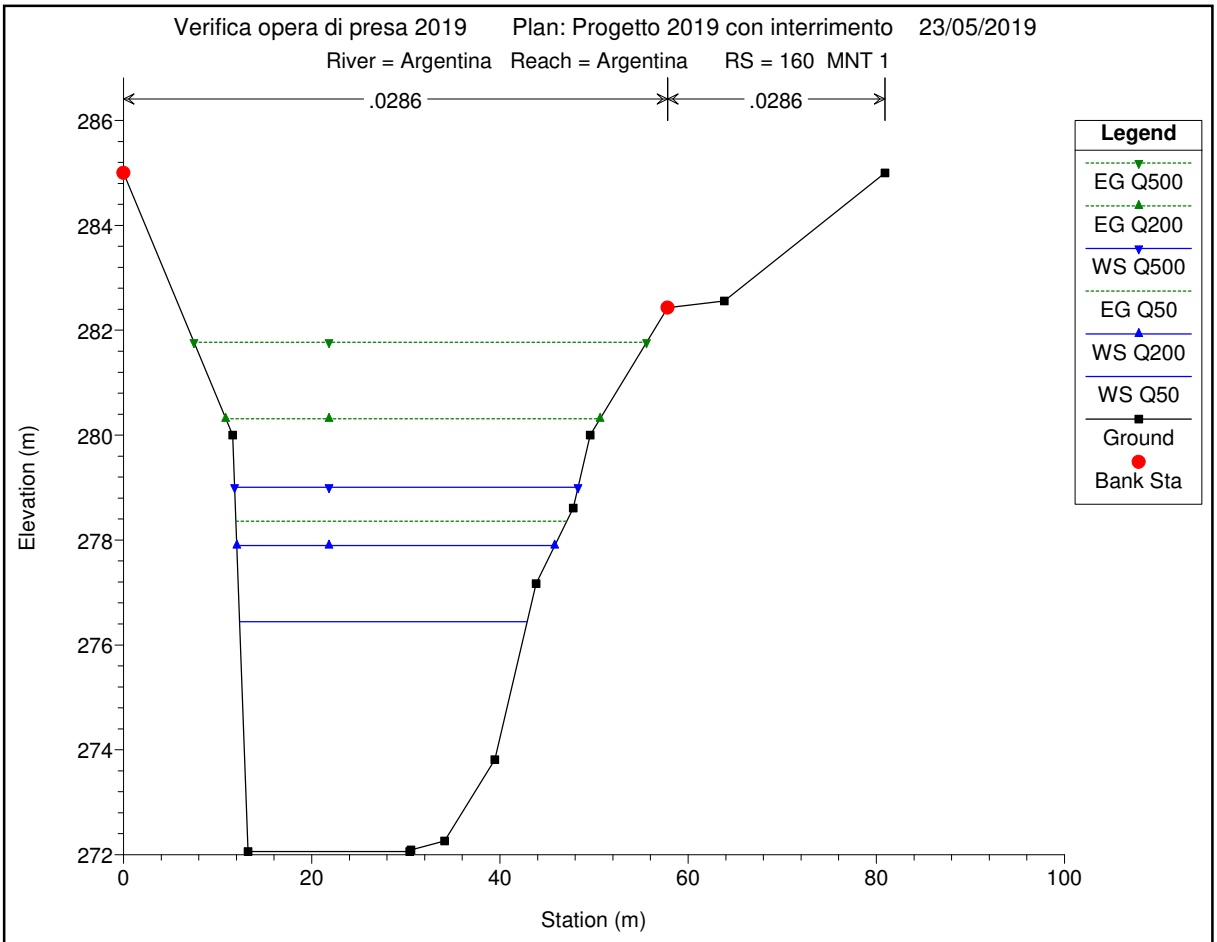

Verifica opera di presa 2019 Plan: Progetto 2019 23/05/2019
River = Argentina Reach = Argentina RS = 10 MNT 16
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
Bank Sta
Elevation (m)
Station (m)
275
270
265
260
255
250
0
10
20
30
40
50
60
70
80

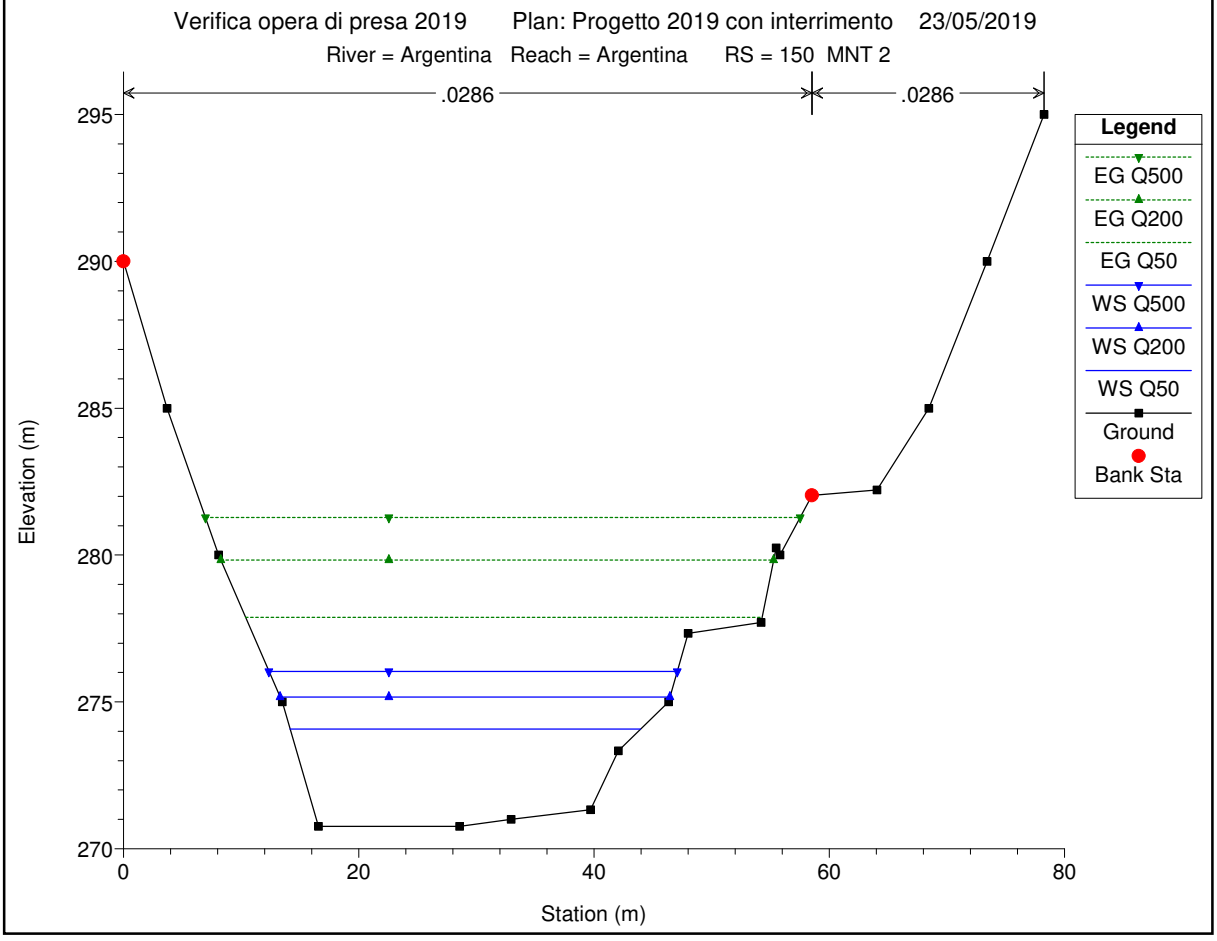

Verifica opera di presa 2019 Plan: Progetto 2019 23/05/2019
River = Argentina Reach = Argentina RS = 5 MNT 16.5
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
Bank Sta
Elevation (m)
Station (m)
270
268
266
264
262
260
258
256
254
252
250
0
10
20
30
40
50
60
70

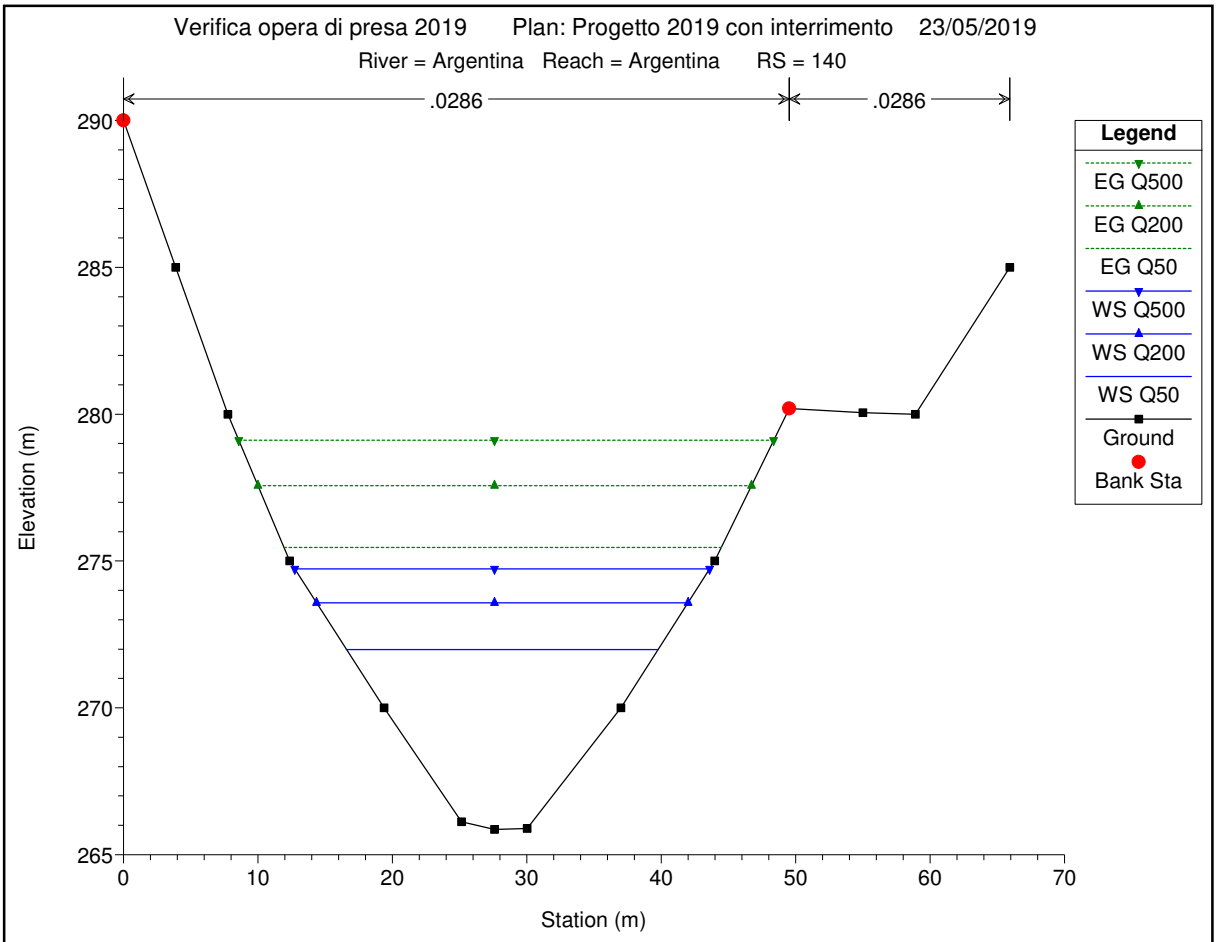
HEC-RAS Plan: Progetto 201 River: Argentina Reach: Argentina

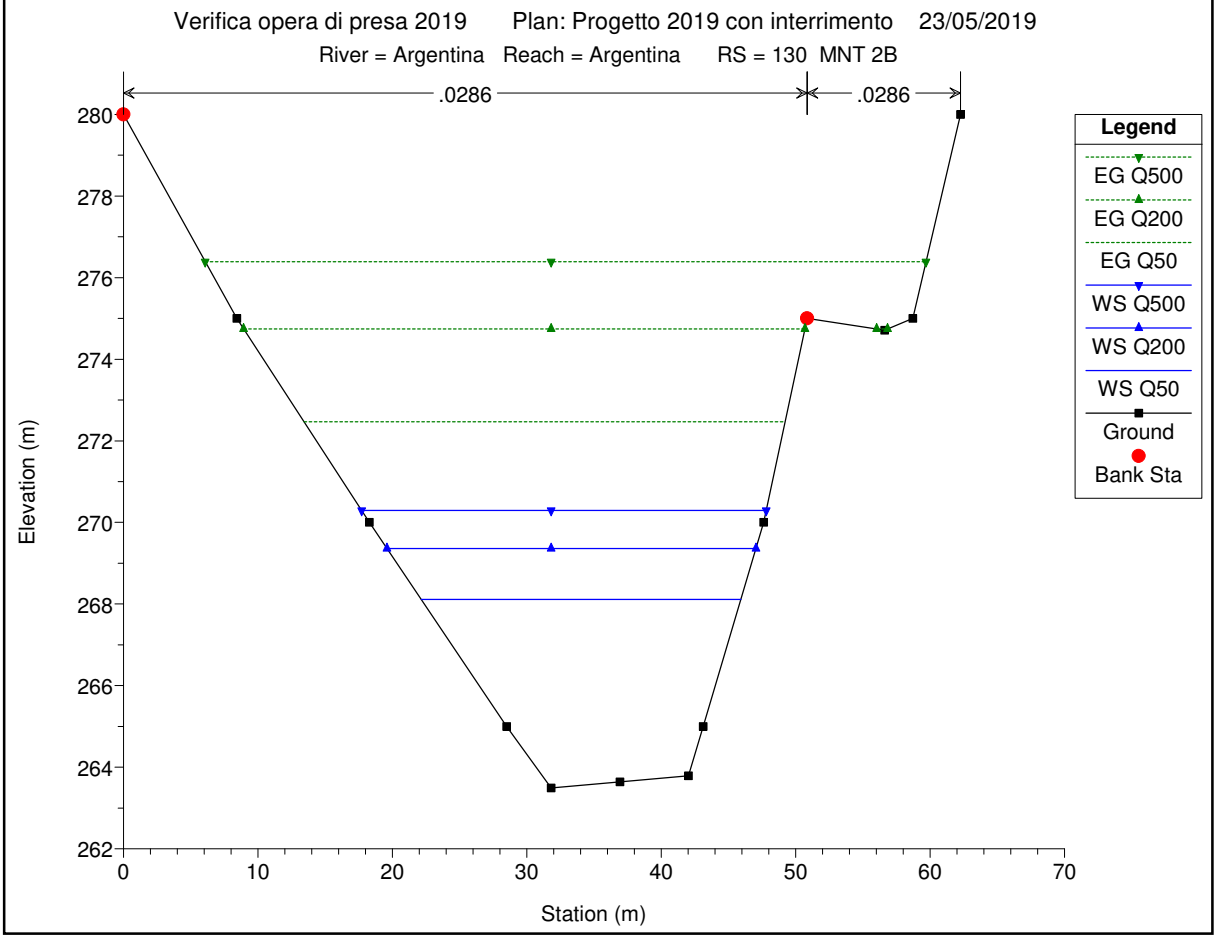
Reach	River Sta		Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Argentina	160	MNT 1	Q50	710.00	272.06	276.44	276.44	278.36	0.006290	6.13	115.83	30.56	1.01
Argentina	160	MNT 1	Q200	1117.00	272.06	277.89	277.89	280.31	0.006021	6.89	162.09	33.80	1.00
Argentina	160	MNT 1	Q500	1484.00	272.06	279.01	279.01	281.77	0.005820	7.36	201.51	36.52	1.00
Argentina	150	MNT 2	Q50	710.00	270.76	274.07	275.24	277.88	0.017643	8.64	82.16	29.80	1.66
Argentina	150	MNT 2	Q200	1117.00	270.76	275.17	276.57	279.83	0.015857	9.56	116.86	33.16	1.63
Argentina	150	MNT 2	Q500	1484.00	270.76	276.04	277.84	281.28	0.014376	10.14	146.32	34.72	1.58
Argentina	140	MNT 3	Q50	710.00	265.86	271.99	272.96	275.47	0.011799	8.26	85.93	23.19	1.37
Argentina	140	MNT 3	Q200	1117.00	265.86	273.58	274.63	277.56	0.010356	8.84	126.33	27.64	1.32
Argentina	140	MNT 3	Q500	1484.00	265.86	274.73	275.81	279.11	0.009692	9.27	160.08	30.87	1.30
Argentina	130	MNT4	Q50	710.00	263.49	268.12	269.50	272.47	0.017125	9.24	76.82	23.78	1.64
Argentina	130	MNT4	Q200	1117.00	263.49	269.36	271.07	274.74	0.016408	10.28	108.68	27.45	1.65
Argentina	130	MNT4	Q500	1484.00	263.49	270.29	272.23	276.39	0.015842	10.94	135.61	30.11	1.65
Argentina	120	MNT5	Q50	710.00	262.81	270.02		270.65	0.001253	3.52	201.90	37.37	0.48
Argentina	120	MNT5	Q200	1117.00	262.81	266.89	268.98	273.75	0.025946	11.60	96.29	30.10	2.07
Argentina	120	MNT5	Q500	1484.00	262.81	267.66	270.05	275.44	0.024037	12.35	120.14	31.89	2.03
Argentina	110	MNT 6 Monte brig	Q50	710.00	261.76	270.18		270.56	0.000642	2.71	262.43	43.23	0.35
Argentina	110	MNT 6 Monte brig	Q200	1117.00	261.76	271.58		272.18	0.000872	3.44	324.96	46.44	0.41
Argentina	110	MNT 6 Monte brig	Q500	1484.00	261.76	272.64		273.44	0.001027	3.95	375.65	48.89	0.45
Argentina	100	MNT 7 corpo brig	Q50	710.00	265.20	268.89	268.89	270.44	0.006400	5.50	129.09	42.19	1.00
Argentina	100	MNT 7 corpo brig	Q200	1117.00	265.20	270.02	270.02	272.03	0.005952	6.29	177.51	44.16	1.00
Argentina	100	MNT 7 corpo brig	Q500	1484.00	265.20	270.91	270.91	273.27	0.005698	6.81	217.80	46.11	1.00
Argentina	90	MNT 8 valle brig	Q50	710.00	258.23	261.01	263.06	269.68	0.069540	13.04	54.45	29.24	3.05
Argentina	90	MNT 8 valle brig	Q200	1117.00	258.23	261.98	264.50	271.27	0.046094	13.50	82.74	29.24	2.56
Argentina	90	MNT 8 valle brig	Q500	1484.00	258.23	262.84	265.72	272.51	0.036044	13.78	107.71	29.24	2.29
Argentina	80	MNT 9	Q50	710.00	258.44	261.61	263.22	267.44	0.038541	10.70	66.37	31.27	2.34
Argentina	80	MNT 9	Q200	1117.00	258.44	262.46	264.50	269.58	0.033618	11.82	94.48	33.47	2.25
Argentina	80	MNT 9	Q500	1484.00	258.44	263.19	265.51	271.12	0.029010	12.48	118.94	33.70	2.12
Argentina	70	MNT 10	Q50	710.00	258.09	261.39	262.98	267.13	0.035684	10.62	66.88	30.52	2.29
Argentina	70	MNT 10	Q200	1117.00	258.09	262.24	264.24	269.30	0.032592	11.78	94.85	33.73	2.24
Argentina	70	MNT 10	Q500	1484.00	258.09	262.95	265.24	270.90	0.028601	12.49	118.78	33.99	2.13
Argentina	60	MNT 11	Q50	710.00	257.51	260.96	262.58	266.54	0.033022	10.47	67.82	29.62	2.21
Argentina	60	MNT 11	Q200	1117.00	257.51	261.90	263.89	268.76	0.029493	11.60	96.28	31.95	2.13
Argentina	60	MNT 11	Q500	1484.00	257.51	262.64	264.93	270.41	0.026352	12.35	120.16	32.36	2.05
Argentina	50	MNT 12	Q50	710.00	256.26	261.46	262.80	265.76	0.019363	9.19	77.27	25.42	1.68
Argentina	50	MNT 12	Q200	1117.00	256.26	262.65	264.26	267.91	0.018031	10.16	109.96	28.99	1.66
Argentina	50	MNT 12	Q500	1484.00	256.26	263.57	265.40	269.54	0.016619	10.83	137.09	30.33	1.63
Argentina	40	MNT 13	Q50	710.00	255.84	259.88	261.54	265.14	0.022538	10.16	69.88	23.34	1.87
Argentina	40	MNT 13	Q200	1117.00	255.84	261.17	263.15	267.34	0.019371	11.00	101.51	26.13	1.78
Argentina	40	MNT 13	Q500	1484.00	255.84	262.13	264.23	268.99	0.019027	11.61	127.87	29.78	1.79
Argentina	30	MNT 14	Q50	710.00	255.55	258.97	260.62	264.34	0.025328	10.26	69.19	25.43	1.99
Argentina	30	MNT 14	Q200	1117.00	255.55	260.08	262.09	266.61	0.022379	11.33	98.62	27.92	1.92
Argentina	30	MNT 14	Q500	1484.00	255.55	260.94	263.22	268.29	0.020800	12.02	123.51	29.90	1.89
Argentina	20	MNT 15	Q50	710.00	254.08	258.19	259.69	262.87	0.022165	9.58	74.09	27.13	1.85
Argentina	20	MNT 15	Q200	1117.00	254.08	259.14	261.08	265.28	0.023036	10.98	101.73	31.18	1.94
Argentina	20	MNT 15	Q500	1484.00	254.08	259.83	262.07	267.08	0.023516	11.93	124.41	34.15	2.00
Argentina	15		Q50	710.00	252.67	255.99	257.67	262.02	0.040148	10.88	65.25	32.81	2.46
Argentina	15		Q200	1117.00	252.67	256.72	258.87	264.40	0.038489	12.28	90.97	36.64	2.49
Argentina	15		Q500	1484.00	252.67	257.29	259.78	266.20	0.036757	13.23	112.19	38.67	2.48
Argentina	10	MNT 16	Q50	710.00	251.98	255.26	256.95	261.02	0.032984	10.64	66.76	29.45	2.26
Argentina	10	MNT 16	Q200	1117.00	251.98	256.12	258.28	263.43	0.031208	11.98	93.26	32.33	2.25
Argentina	10	MNT 16	Q500	1484.00	251.98	256.78	259.28	265.23	0.030256	12.88	115.21	34.48	2.25
Argentina	5		Q50	710.00	251.91	255.65	257.12	260.27	0.022043	9.53	74.51	27.97	1.86
Argentina	5		Q200	1117.00	251.91	256.58	258.49	262.64	0.022565	10.90	102.47	31.72	1.94
Argentina	5		Q500	1484.00	251.91	257.27	259.51	264.42	0.022950	11.85	125.25	34.48	1.98

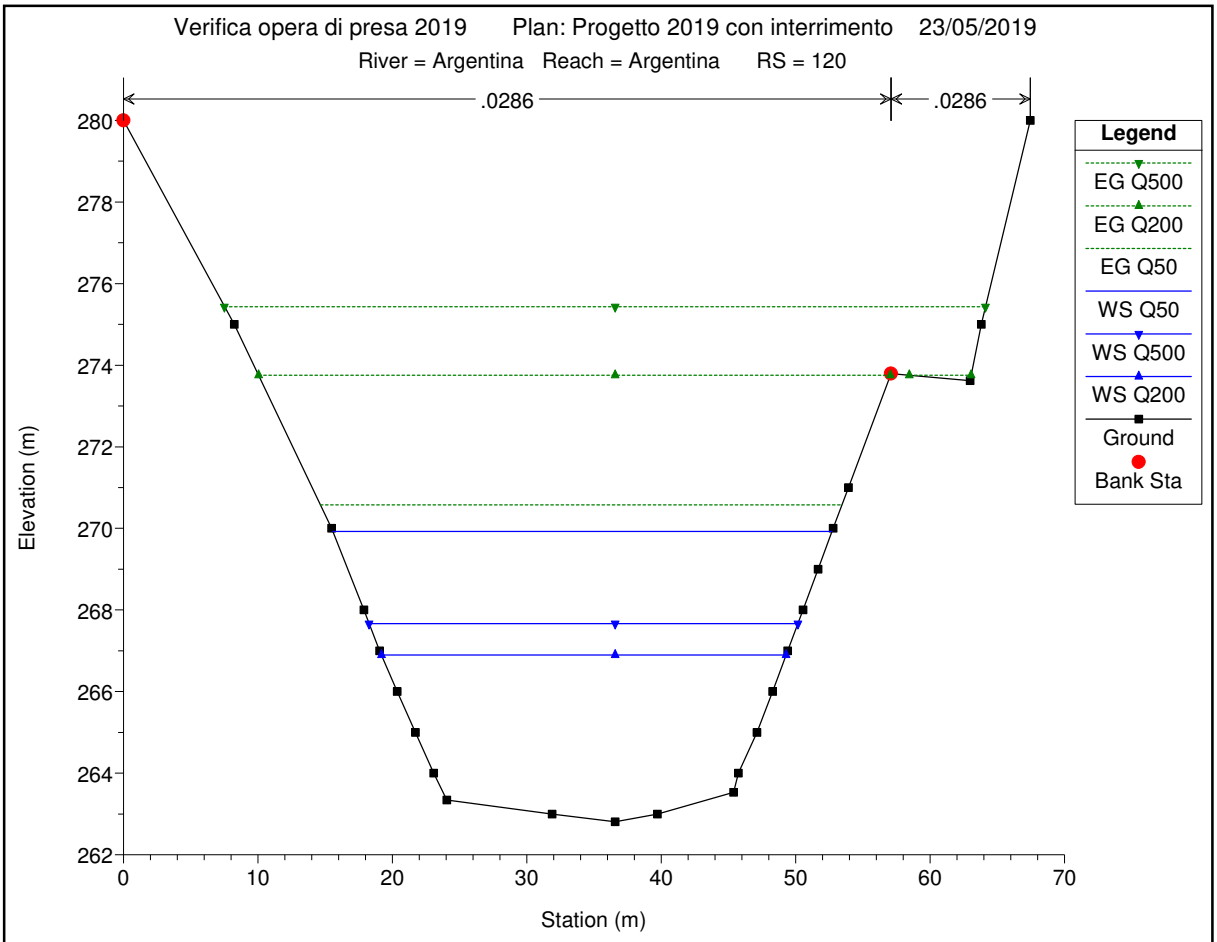

Verifica opera di presa 2019 Plan: Progetto 2019 con interrimento 23/05/2019
Argentina Argentina
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
LOB
ROB
Elevation (m)
290
280
270
260
250
0
100
200
300
400
500
600
700
Main Channel Distance (m)

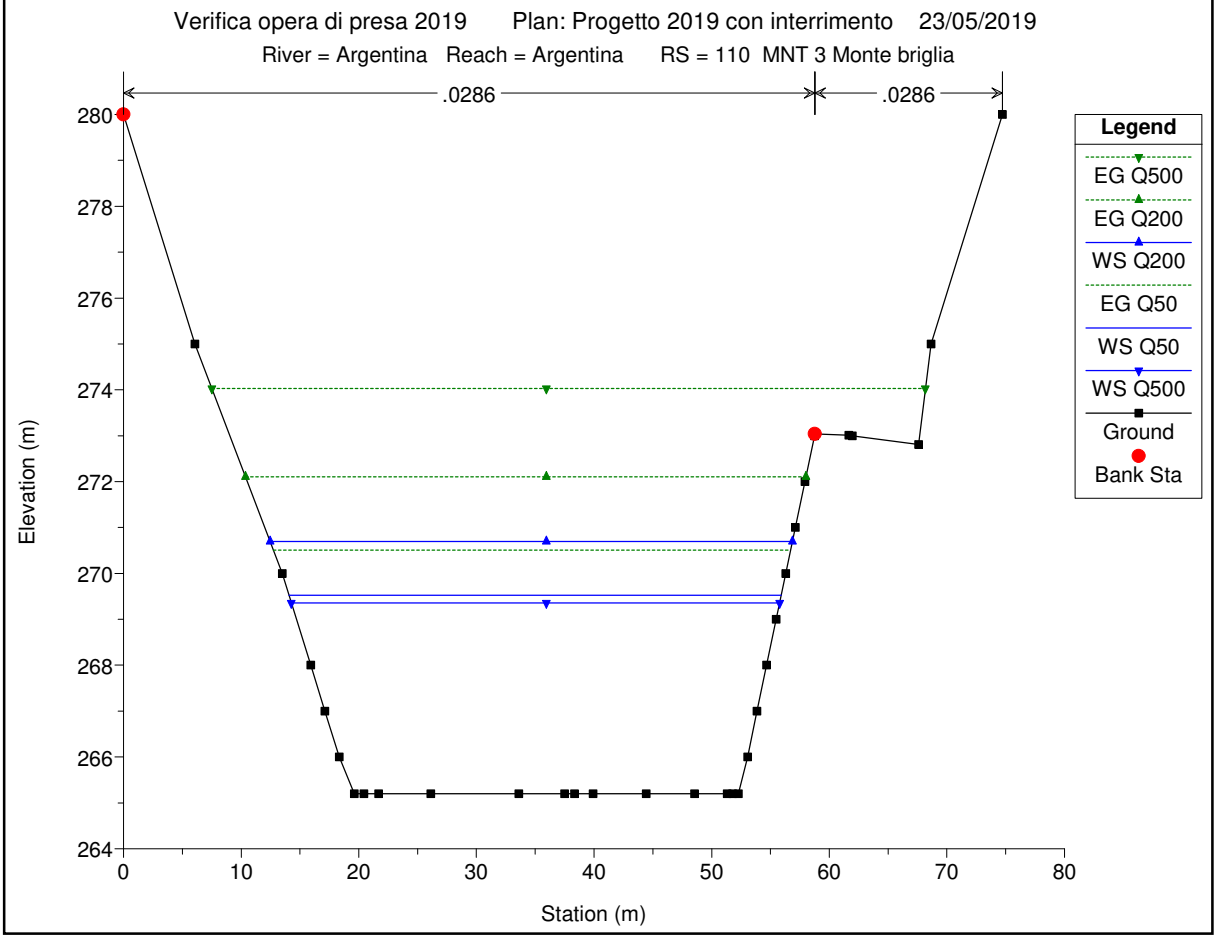

Verifica opera di presa 2019 Plan: Progetto 2019 con interrimento 23/05/2019
River = Argentina Reach = Argentina RS = 160 MNT 1
.0286
.0286
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
WS Q500
EG Q50
WS Q200
WS Q50
Ground
Bank Sta

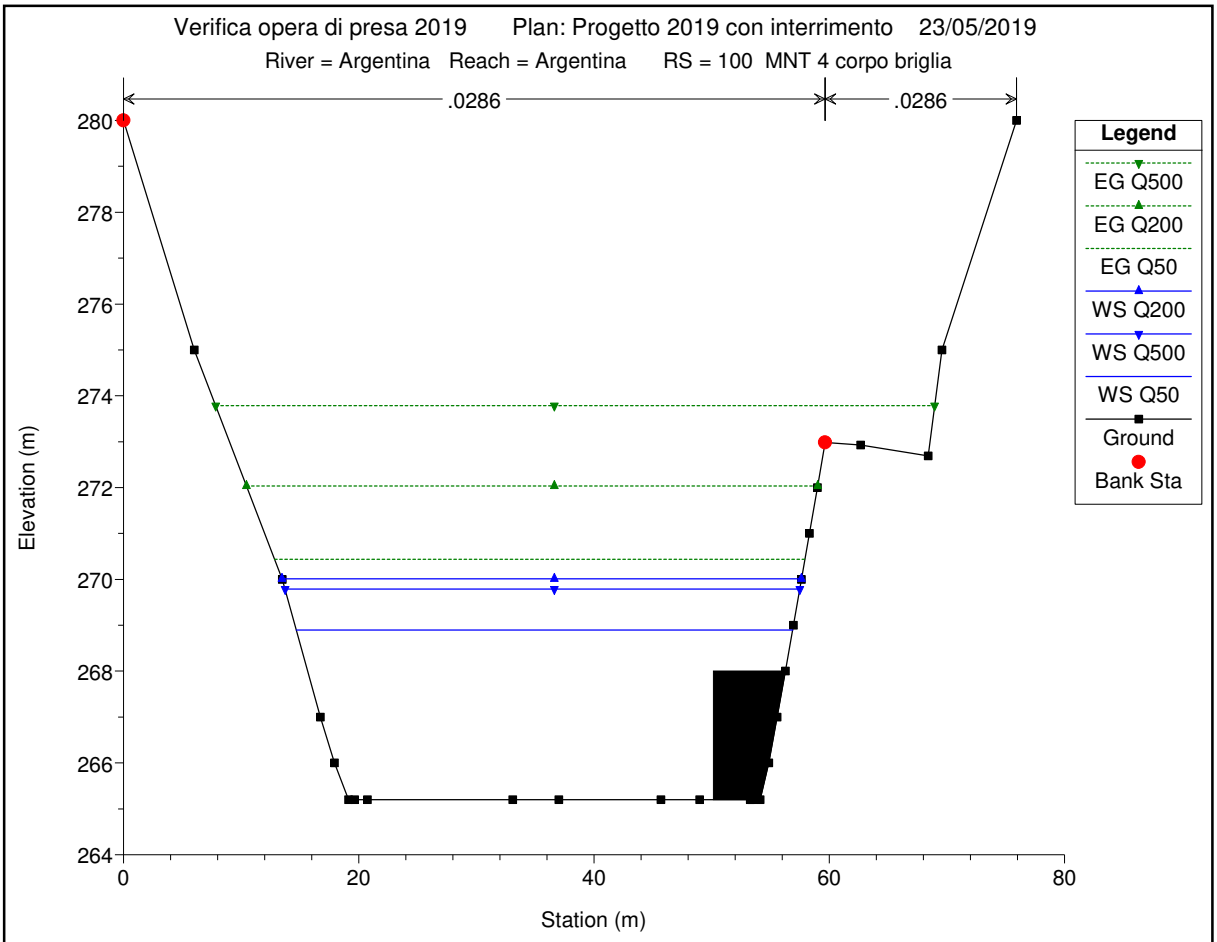

Verifica opera di presa 2019 Plan: Progetto 2019 con interrimento 23/05/2019
River = Argentina Reach = Argentina RS = 150 MNT 2
.0286
.0286
Elevation (m)
Station (m)
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
Bank Sta

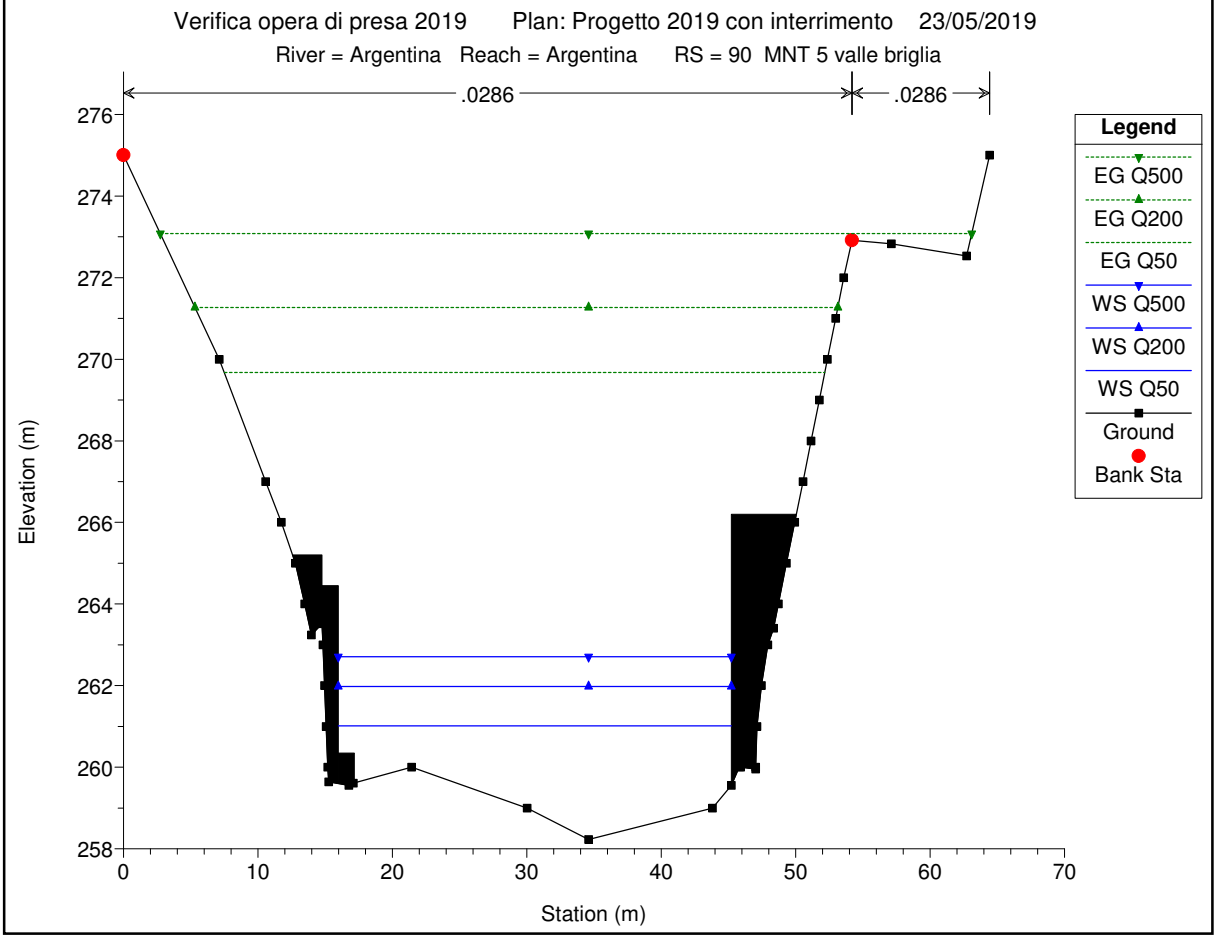

Verifica opera di presa 2019 Plan: Progetto 2019 con interrimento 23/05/2019
River = Argentina Reach = Argentina RS = 140
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
Bank Sta
Elevation (m)
Station (m)
290
285
280
275
270
265
0
10
20
30
40
50
60
70

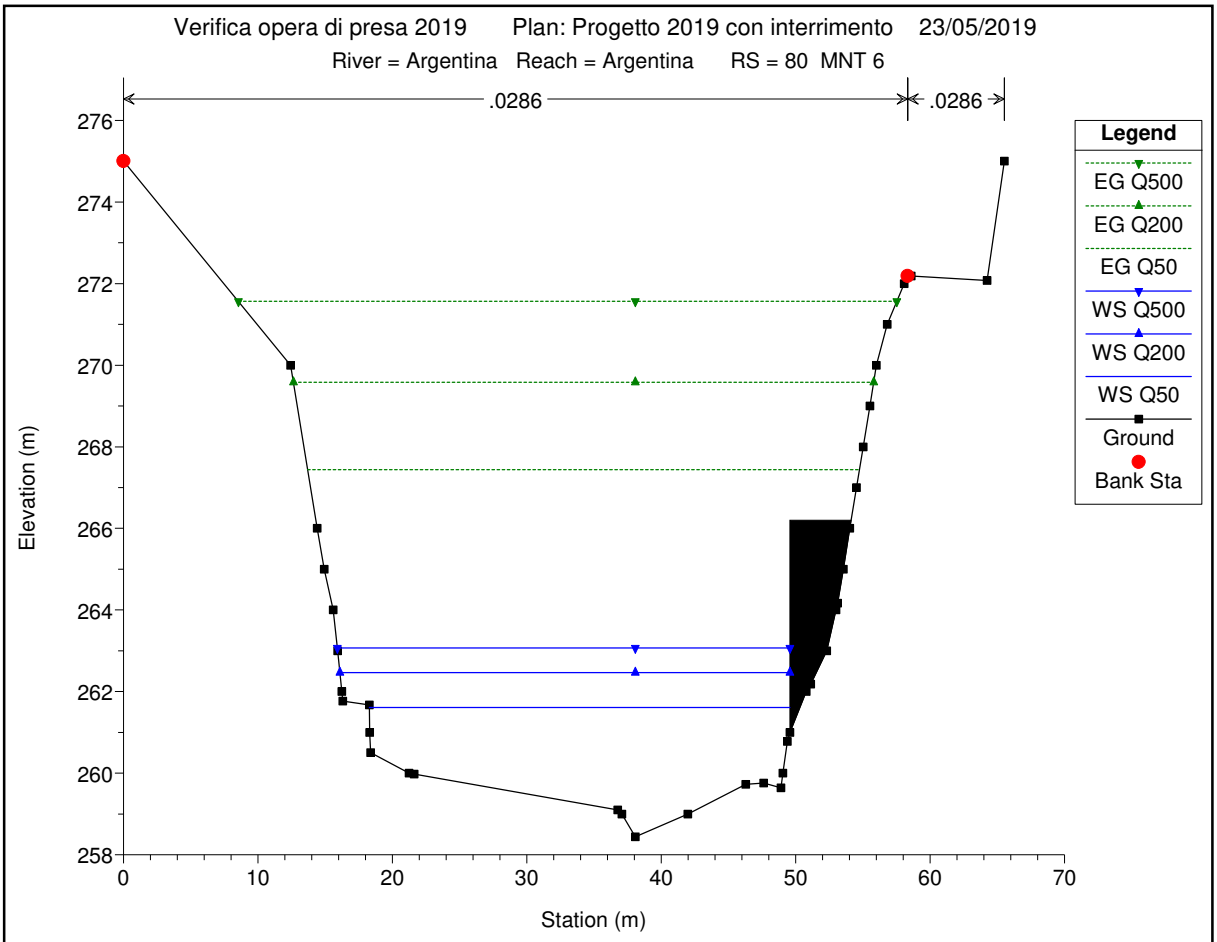

Verifica opera di presa 2019 Plan: Progetto 2019 con interrimento 23/05/2019
River = Argentina Reach = Argentina RS = 130 MNT 2B
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
Bank Sta
Elevation (m)
Station (m)
280
278
276
274
272
270
268
266
264
262
0
10
20
30
40
50
60
70

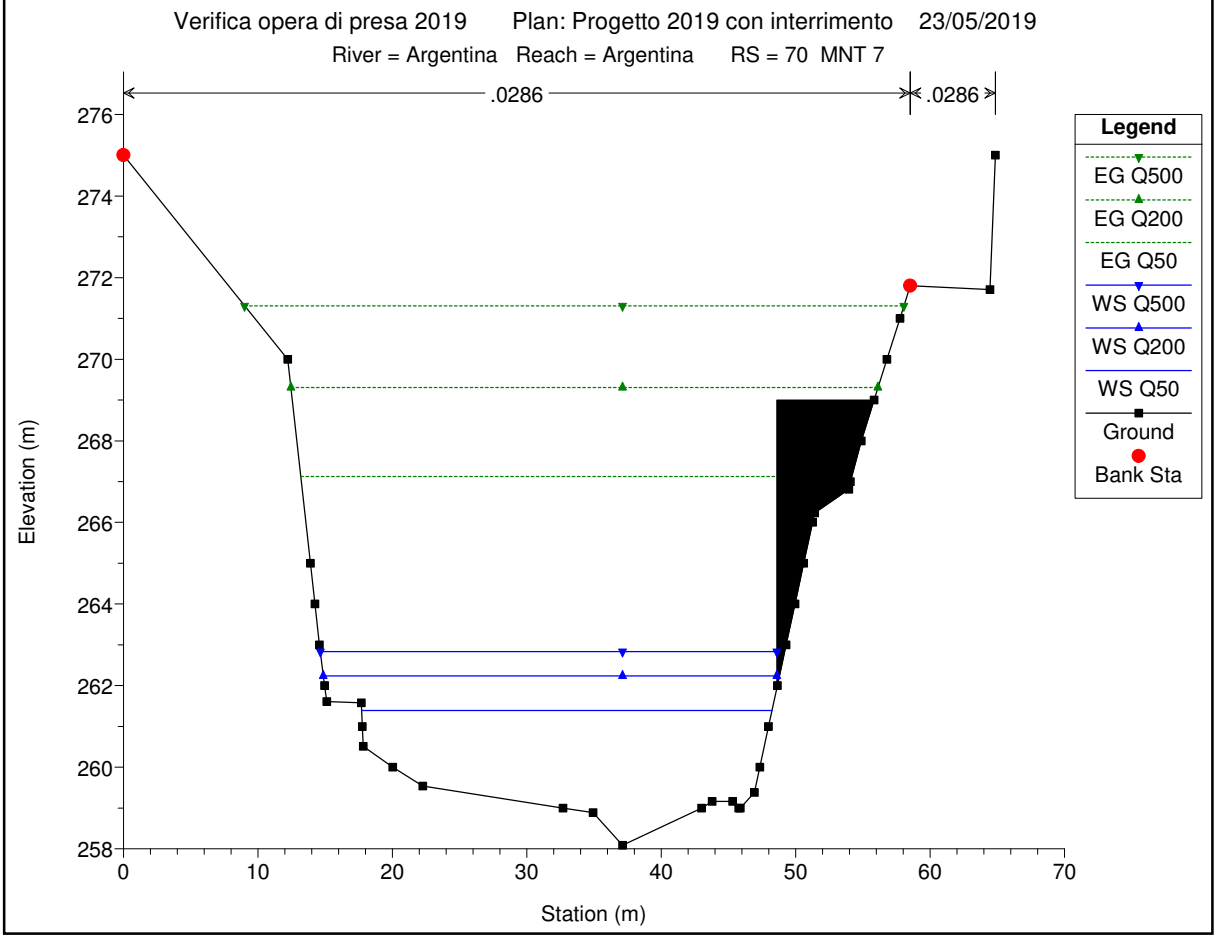

Verifica opera di presa 2019 Plan: Progetto 2019 con interrimento 23/05/2019
River = Argentina Reach = Argentina RS = 120
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q50
WS Q500
WS Q200
Ground
Bank Sta
Elevation (m)
Station (m)
280
278
276
274
272
270
268
266
264
262
0
10
20
30
40
50
60
70

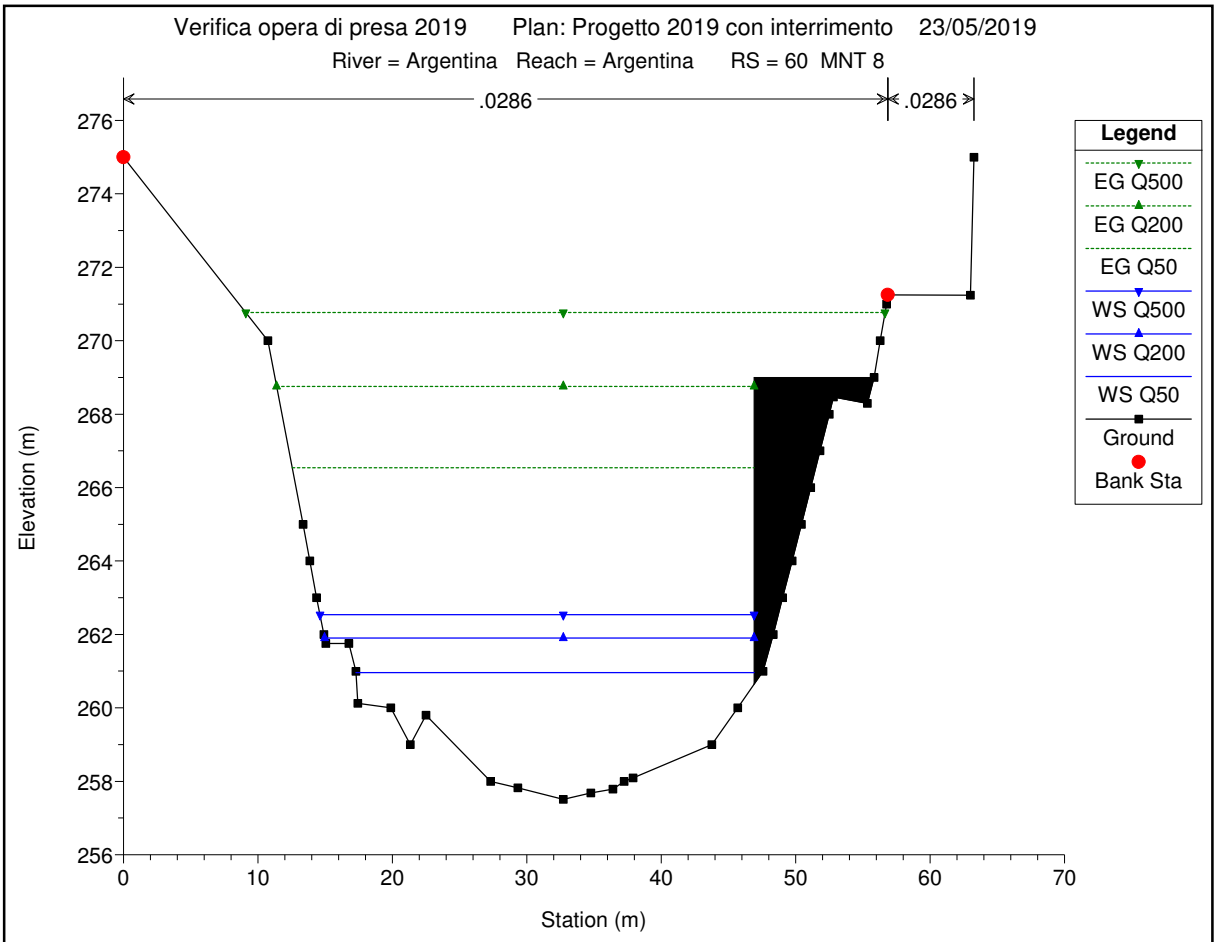

Verifica opera di presa 2019 Plan: Progetto 2019 con interrimento 23/05/2019
River = Argentina Reach = Argentina RS = 110 MNT 3 Monte briglia
.0286
.0286
Legend
EG Q500
EG Q200
WS Q200
EG Q50
WS Q50
WS Q500
Ground
Bank Sta
Elevation (m)
Station (m)
280
278
276
274
272
270
268
266
264
0
10
20
30
40
50
60
70
80

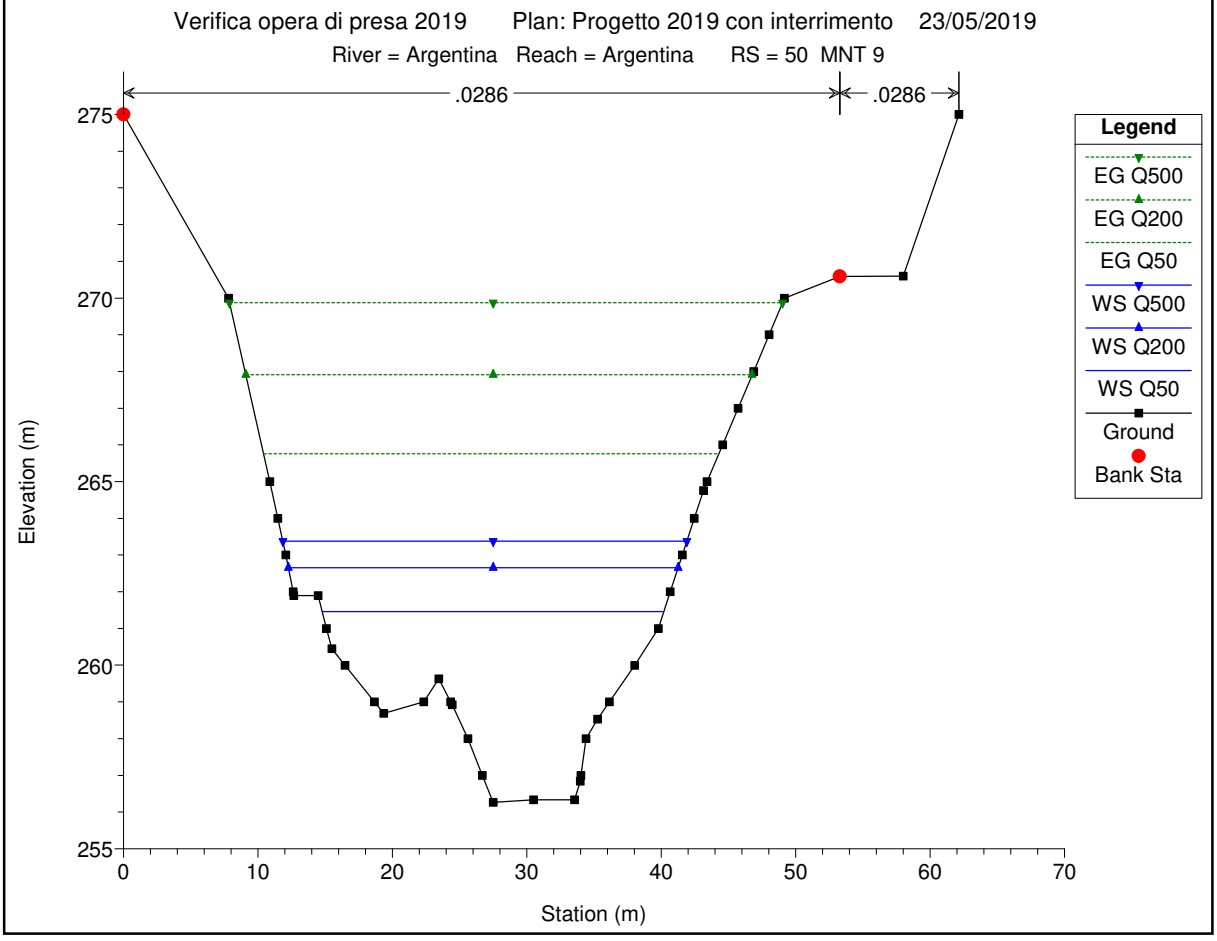

Verifica opera di presa 2019 Plan: Progetto 2019 con interrimento 23/05/2019
River = Argentina Reach = Argentina RS = 100 MNT 4 corpo briglia
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q200
WS Q500
WS Q50
Ground
Bank Sta
Elevation (m)
Station (m)
280
278
276
274
272
270
268
266
264
0
20
40
60
80

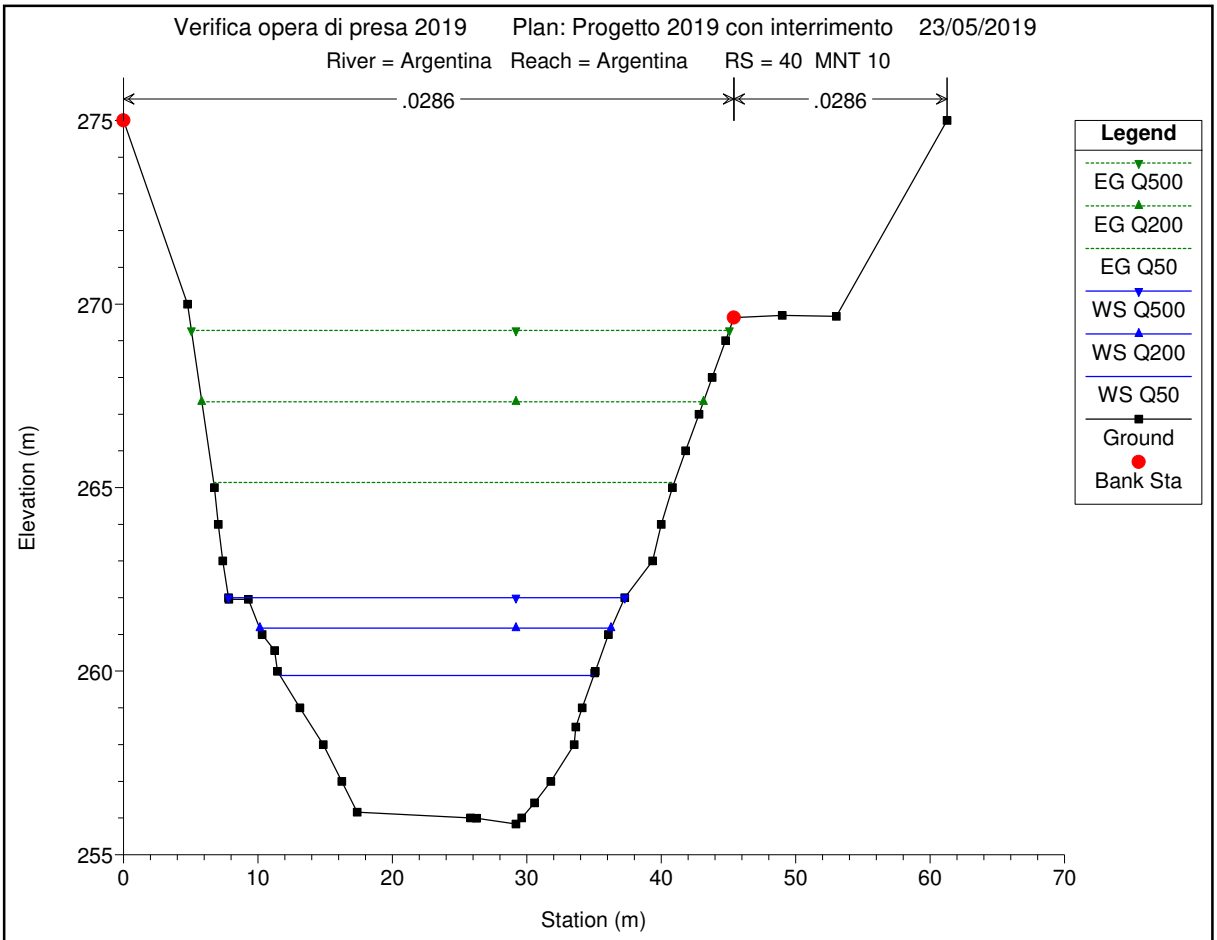

Verifica opera di presa 2019 Plan: Progetto 2019 con interrimento 23/05/2019
River = Argentina Reach = Argentina RS = 90 MNT 5 valle briglia
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
Bank Sta
Elevation (m)
Station (m)
276
274
272
270
268
266
264
262
260
258
0
10
20
30
40
50
60
70

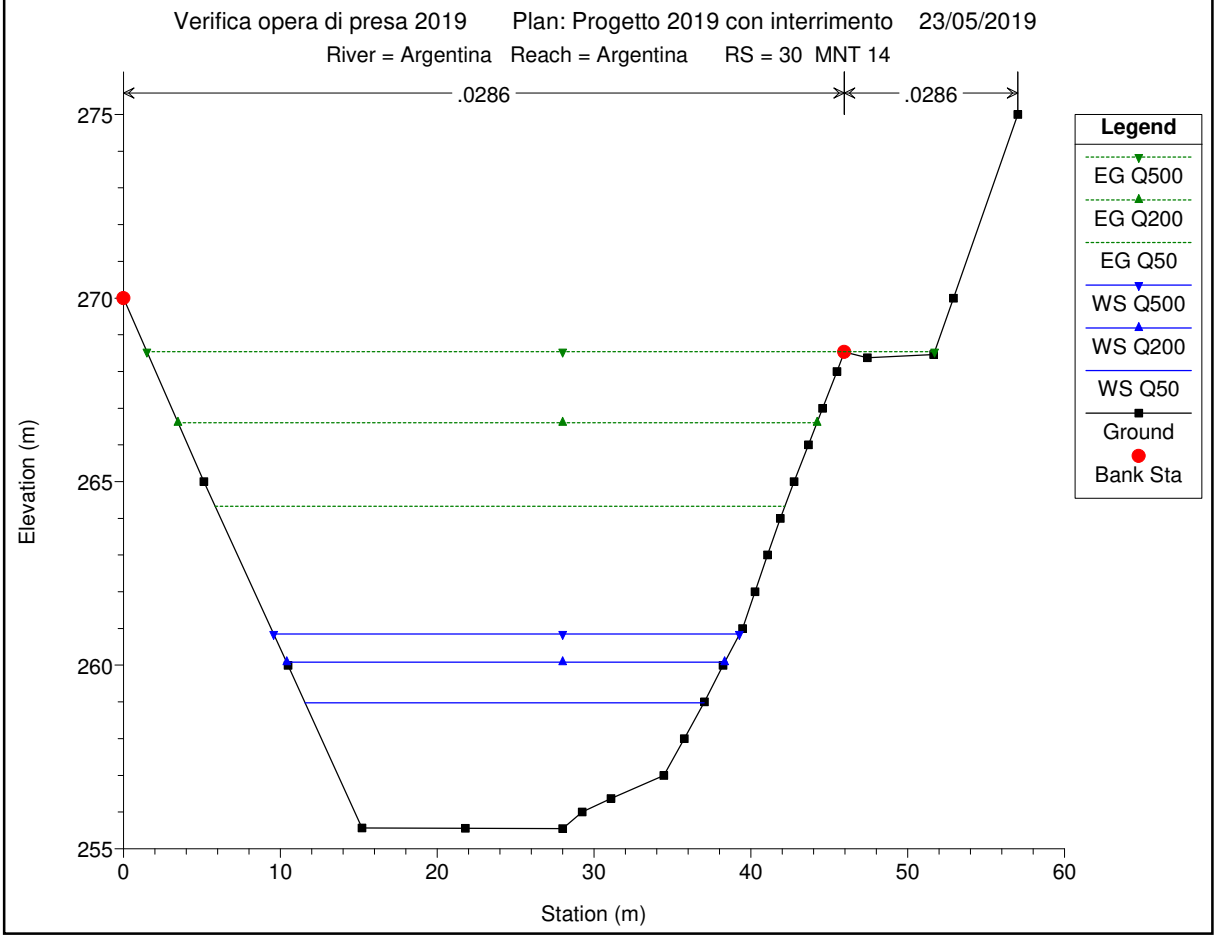

Verifica opera di presa 2019 Plan: Progetto 2019 con interrimento 23/05/2019
River = Argentina Reach = Argentina RS = 80 MNT 6
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
Bank Sta
Elevation (m)
Station (m)
276
274
272
270
268
266
264
262
260
258
0
10
20
30
40
50
60
70

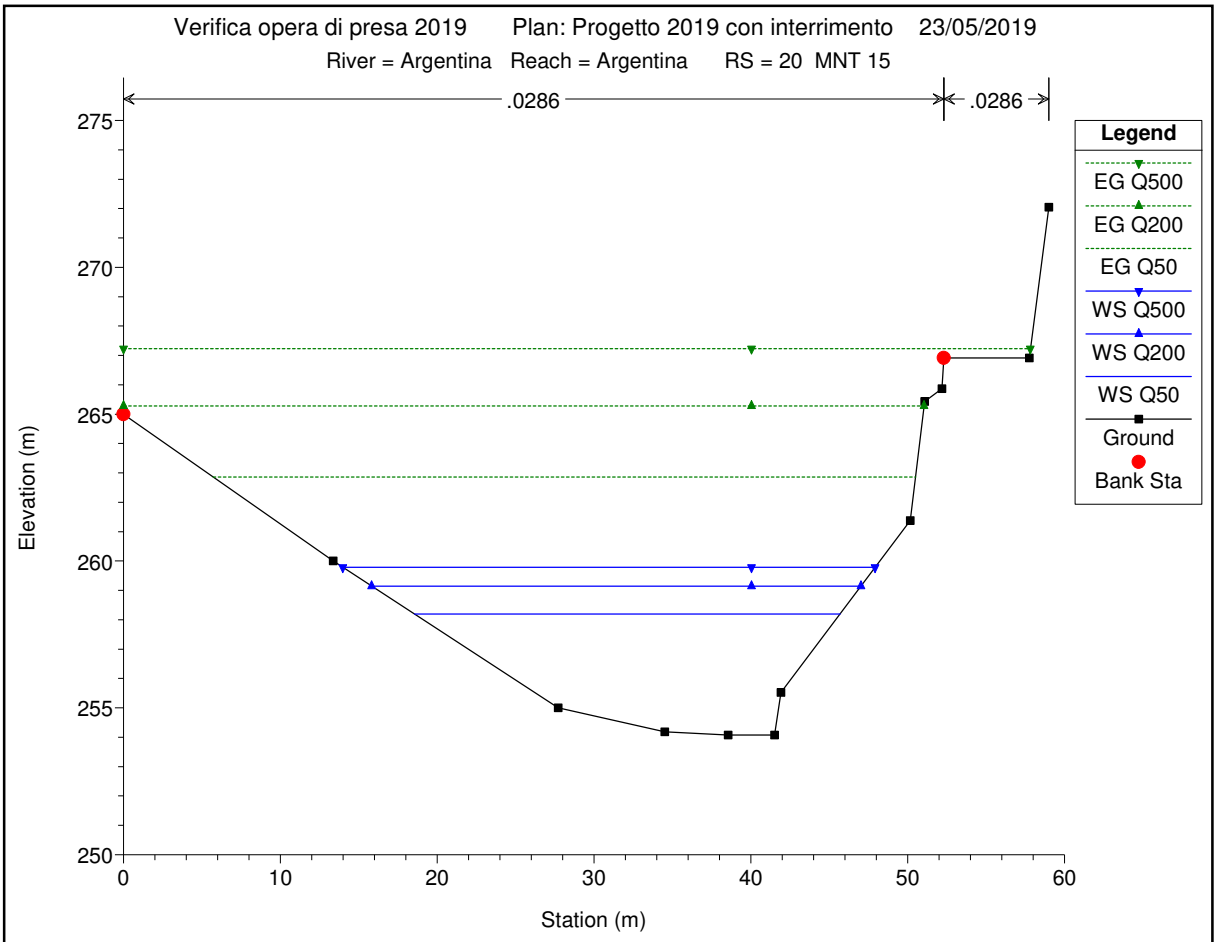

Verifica opera di presa 2019 Plan: Progetto 2019 con interrimento 23/05/2019
River = Argentina Reach = Argentina RS = 70 MNT 7
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
Bank Sta
Elevation (m)
Station (m)
276
274
272
270
268
266
264
262
260
258
0
10
20
30
40
50
60
70

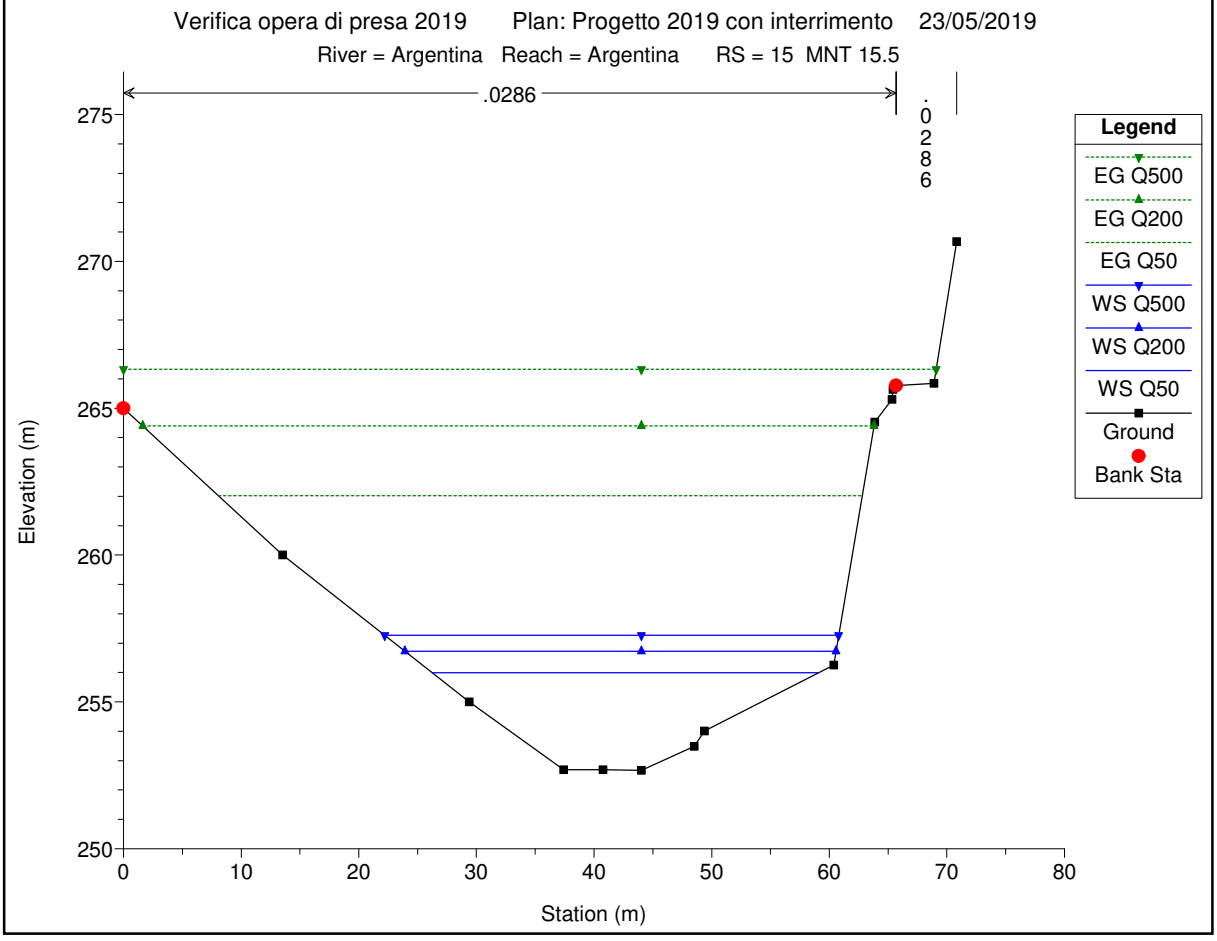

Verifica opera di presa 2019 Plan: Progetto 2019 con interrimento 23/05/2019
River = Argentina Reach = Argentina RS = 60 MNT 8
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
Bank Sta
Elevation (m)
Station (m)
276
274
272
270
268
266
264
262
260
258
256
0
10
20
30
40
50
60
70

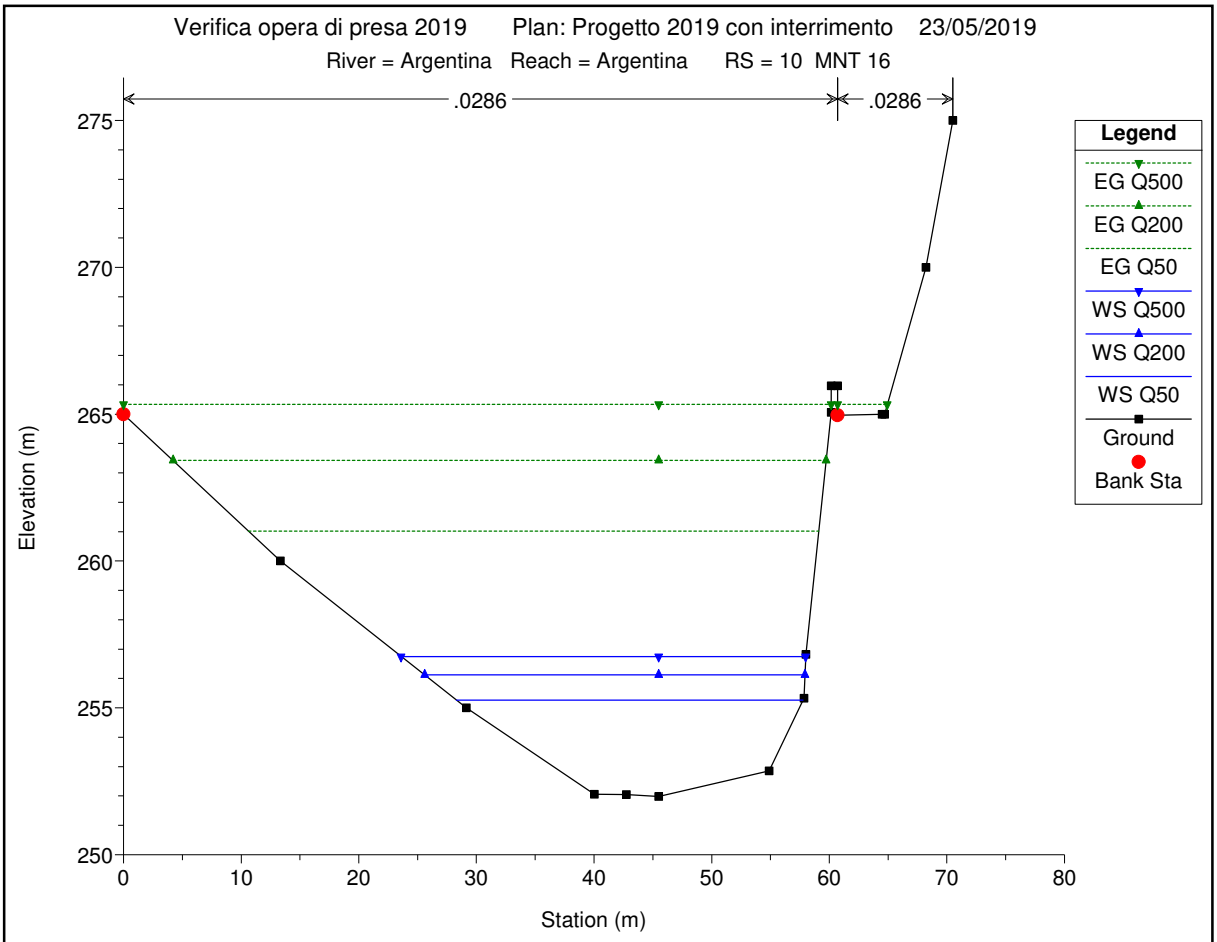

Verifica opera di presa 2019 Plan: Progetto 2019 con interrimento 23/05/2019
River = Argentina Reach = Argentina RS = 50 MNT 9
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
Bank Sta
Elevation (m)
Station (m)
275
270
265
260
255
0
10
20
30
40
50
60
70

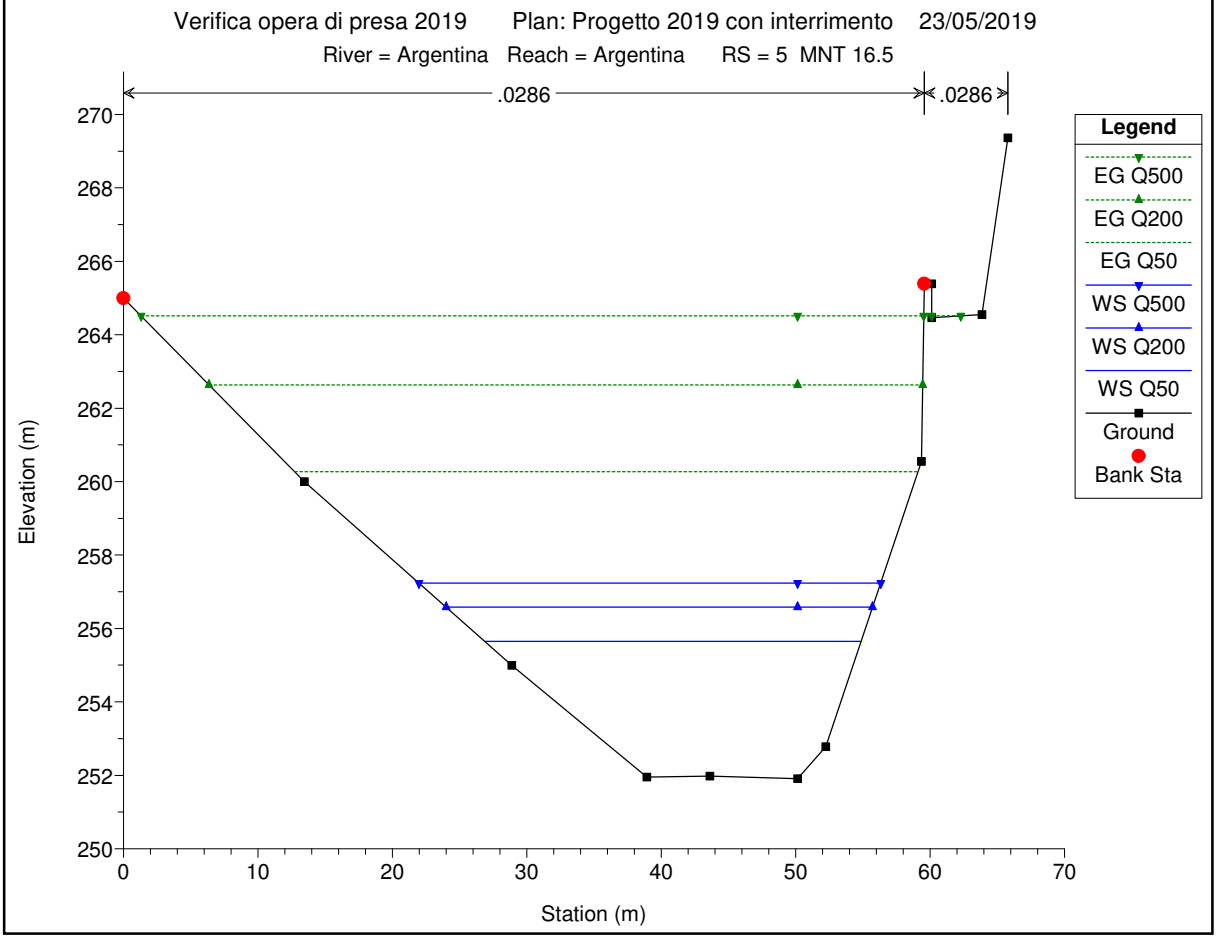

Verifica opera di presa 2019 Plan: Progetto 2019 con interrimento 23/05/2019
River = Argentina Reach = Argentina RS = 40 MNT 10
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
Bank Sta
Elevation (m)
Station (m)
275
270
265
260
255
0
10
20
30
40
50
60
70


Verifica opera di presa 2019 Plan: Progetto 2019 con interrimento 23/05/2019
River = Argentina Reach = Argentina RS = 30 MNT 14
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
Bank Sta
Elevation (m)
Station (m)
275
270
265
260
255
0
10
20
30
40
50
60


Verifica opera di presa 2019 Plan: Progetto 2019 con interrimento 23/05/2019
River = Argentina Reach = Argentina RS = 20 MNT 15
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
Bank Sta
Elevation (m)
Station (m)
275
270
265
260
255
250
0
10
20
30
40
50
60


Verifica opera di presa 2019 Plan: Progetto 2019 con interrimento 23/05/2019
River = Argentina Reach = Argentina RS = 15 MNT 15.5
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
Bank Sta
Elevation (m)
Station (m)
275
270
265
260
255
250
0
10
20
30
40
50
60
70
80


Verifica opera di presa 2019 Plan: Progetto 2019 con interrimento 23/05/2019
River = Argentina Reach = Argentina RS = 10 MNT 16
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
Bank Sta
Elevation (m)
Station (m)
275
270
265
260
255
250
0
10
20
30
40
50
60
70
80


Verifica opera di presa 2019 Plan: Progetto 2019 con interrimento 23/05/2019
River = Argentina Reach = Argentina RS = 5 MNT 16.5
.0286
.0286
Legend
EG Q500
EG Q200
EG Q50
WS Q500
WS Q200
WS Q50
Ground
Bank Sta
Elevation (m)
Station (m)
270
268
266
264
262
260
258
256
254
252
250
0
10
20
30
40
50
60
70

HEC-RAS Plan:

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)	
Argentina	160 MNT 1	Q50	710.00	272.06	276.44	276.44	278.36	0.006290	6.13	115.83	30.56	1.01
Argentina	160 MNT 1	Q200	1117.00	272.06	277.89	277.89	280.31	0.006021	6.89	162.09	33.80	1.00
Argentina	160 MNT 1	Q500	1484.00	272.06	279.01	279.01	281.77	0.005820	7.36	201.51	36.52	1.00
Argentina	150 MNT 2	Q50	710.00	270.76	274.07	275.24	277.88	0.017643	8.64	82.16	29.80	1.66
Argentina	150 MNT 2	Q200	1117.00	270.76	275.17	276.57	279.83	0.015857	9.56	116.86	33.16	1.63
Argentina	150 MNT 2	Q500	1484.00	270.76	276.04	277.84	281.28	0.014376	10.14	146.32	34.72	1.58
Argentina	140 MNT 3	Q50	710.00	265.86	271.99	272.96	275.47	0.011799	8.26	85.93	23.19	1.37
Argentina	140 MNT 3	Q200	1117.00	265.86	273.58	274.63	277.56	0.010356	8.84	126.33	27.64	1.32
Argentina	140 MNT 3	Q500	1484.00	265.86	274.73	275.81	279.11	0.009692	9.27	160.08	30.87	1.30
Argentina	130 MNT4	Q50	710.00	263.49	268.12	269.50	272.47	0.017125	9.24	76.82	23.78	1.64
Argentina	130 MNT4	Q200	1117.00	263.49	269.36	271.07	274.74	0.016408	10.28	108.68	27.45	1.65
Argentina	130 MNT4	Q500	1484.00	263.49	270.29	272.23	276.39	0.015842	10.94	135.61	30.11	1.65
Argentina	120 MNT5	Q50	710.00	262.81	269.92	267.58	270.58	0.001321	3.58	198.17	37.14	0.50
Argentina	120 MNT5	Q200	1117.00	262.81	266.89	268.98	273.75	0.025946	11.60	96.29	30.10	2.07
Argentina	120 MNT5	Q500	1484.00	262.81	267.66	270.05	275.44	0.024037	12.35	120.14	31.89	2.03
Argentina	110 MNT 6 Monte brig	Q50	710.00	265.20	269.52		270.50	0.002885	4.39	161.88	41.85	0.71
Argentina	110 MNT 6 Monte brig	Q200	1117.00	265.20	270.70	269.84	272.11	0.003185	5.26	212.49	44.42	0.77
Argentina	110 MNT 6 Monte brig	Q500	1484.00	265.20	269.36	270.76	274.03	0.014380	9.58	154.95	41.51	1.58
Argentina	100 MNT 7 corpo brig	Q50	710.00	265.20	268.89	268.89	270.44	0.006400	5.50	129.09	42.19	1.00
Argentina	100 MNT 7 corpo brig	Q200	1117.00	265.20	270.02	270.02	272.03	0.005952	6.29	177.51	44.16	1.00
Argentina	100 MNT 7 corpo brig	Q500	1484.00	265.20	269.79	270.90	273.79	0.012535	8.86	167.52	43.76	1.45
Argentina	90 MNT 8 valle brig	Q50	710.00	258.23	261.01	263.06	269.68	0.069538	13.04	54.45	29.24	3.05
Argentina	90 MNT 8 valle brig	Q200	1117.00	258.23	261.98	264.50	271.27	0.046094	13.50	82.74	29.24	2.56
Argentina	90 MNT 8 valle brig	Q500	1484.00	258.23	262.71	265.72	273.08	0.040143	14.27	103.99	29.24	2.42
Argentina	80 MNT 9	Q50	710.00	258.44	261.61	263.22	267.44	0.038539	10.70	66.37	31.27	2.34
Argentina	80 MNT 9	Q200	1117.00	258.44	262.46	264.50	269.58	0.033618	11.82	94.48	33.47	2.25
Argentina	80 MNT 9	Q500	1484.00	258.44	263.07	265.51	271.57	0.032261	12.91	114.92	33.66	2.23
Argentina	70 MNT 10	Q50	710.00	258.09	261.39	262.98	267.13	0.035682	10.62	66.88	30.52	2.29
Argentina	70 MNT 10	Q200	1117.00	258.09	262.24	264.24	269.30	0.032592	11.78	94.85	33.73	2.24
Argentina	70 MNT 10	Q500	1484.00	258.09	262.84	265.24	271.31	0.031561	12.90	115.06	33.95	2.24
Argentina	60 MNT 11	Q50	710.00	257.51	260.96	262.58	266.54	0.033020	10.47	67.82	29.62	2.21
Argentina	60 MNT 11	Q200	1117.00	257.51	261.90	263.89	268.76	0.029493	11.60	96.28	31.95	2.13
Argentina	60 MNT 11	Q500	1484.00	257.51	262.54	264.93	270.77	0.028757	12.71	116.78	32.30	2.13
Argentina	50 MNT 12	Q50	710.00	256.26	261.46	262.80	265.76	0.019361	9.19	77.27	25.42	1.68
Argentina	50 MNT 12	Q200	1117.00	256.26	262.65	264.26	267.91	0.018031	10.16	109.96	28.99	1.66
Argentina	50 MNT 12	Q500	1484.00	256.26	263.38	265.40	269.87	0.018782	11.29	131.48	30.05	1.72
Argentina	40 MNT 13	Q50	710.00	255.84	259.88	261.54	265.14	0.022536	10.16	69.88	23.34	1.87
Argentina	40 MNT 13	Q200	1117.00	255.84	261.17	263.15	267.34	0.019371	11.00	101.51	26.13	1.78
Argentina	40 MNT 13	Q500	1484.00	255.84	262.00	264.23	269.28	0.020664	11.96	124.11	29.46	1.86
Argentina	30 MNT 14	Q50	710.00	255.55	258.98	260.62	264.33	0.025209	10.25	69.30	25.44	1.98
Argentina	30 MNT 14	Q200	1117.00	255.55	260.08	262.09	266.60	0.022313	11.31	98.72	27.93	1.92
Argentina	30 MNT 14	Q500	1484.00	255.55	260.85	263.22	268.54	0.022155	12.29	120.78	29.69	1.94
Argentina	20 MNT 15	Q50	710.00	254.08	258.19	259.69	262.86	0.022111	9.57	74.16	27.14	1.85
Argentina	20 MNT 15	Q200	1117.00	254.08	259.14	261.08	265.27	0.022990	10.97	101.81	31.19	1.94
Argentina	20 MNT 15	Q500	1484.00	254.08	259.79	262.07	267.23	0.024366	12.09	122.79	33.95	2.03
Argentina	15	Q50	710.00	252.67	255.99	257.67	262.02	0.040095	10.88	65.28	32.82	2.46
Argentina	15	Q200	1117.00	252.67	256.73	258.87	264.40	0.038440	12.27	91.01	36.65	2.49
Argentina	15	Q500	1484.00	252.67	257.26	259.78	266.33	0.037668	13.34	111.25	38.58	2.51
Argentina	10 MNT 16	Q50	710.00	251.98	255.26	256.95	261.02	0.032950	10.63	66.78	29.46	2.25
Argentina	10 MNT 16	Q200	1117.00	251.98	256.12	258.28	263.42	0.031176	11.97	93.29	32.33	2.25
Argentina	10 MNT 16	Q500	1484.00	251.98	256.75	259.28	265.33	0.030884	12.98	114.37	34.40	2.27
Argentina	5	Q50	710.00	251.91	255.65	257.12	260.27	0.022017	9.53	74.54	27.97	1.86
Argentina	5	Q200	1117.00	251.91	256.58	258.49	262.63	0.022539	10.90	102.51	31.72	1.93
Argentina	5	Q500	1484.00	251.91	257.24	259.51	264.51	0.023477	11.95	124.21	34.36	2.01