



**REGIONE  
LIGURIA**



**Autorità di  
Bacino  
Distrettuale  
del'Appennino  
Settentrionale**

## **PIANO DI BACINO SANSOBBIA**

Piano stralcio per la tutela dal rischio idrogeologico di cui all'art.1, comma 1 del D.L. 11/06/1998 n.180, convertito in legge 03/08/1998 n.267 e s.m.

## **VERIFICHE IDRAULICHE**

### **TORRENTE RIOBASCO**

<b>APPROVAZIONE</b>	<b>Delibera del Consiglio Provinciale di Savona n. 47 del 25/11/2003</b>
<b>ULTIMA MODIFICA DELL'ELABORATO</b>	<b>Decreto del Segretario Generale n. 31 del 14/03/2022</b>
<b>ENTRATA IN VIGORE</b>	<b>Pubblicazione sul BURL n. 15 del 13/04/2022 - parte II</b>

# **PROFILI DI RIGURGITO**

PER LE PORTATE

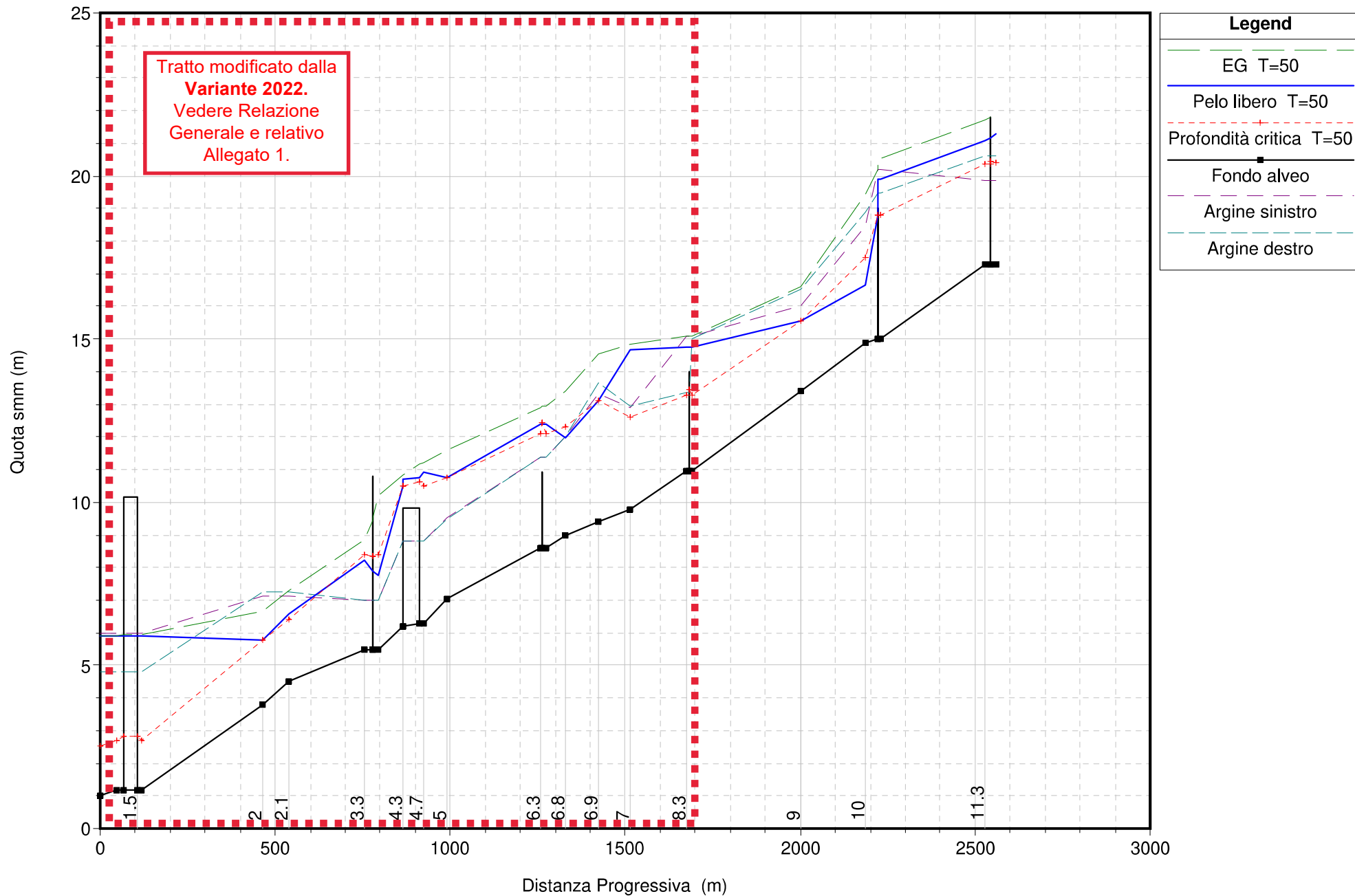
T=50, 200, 500 ANNI

## **RIOBASCO – Confluenza**

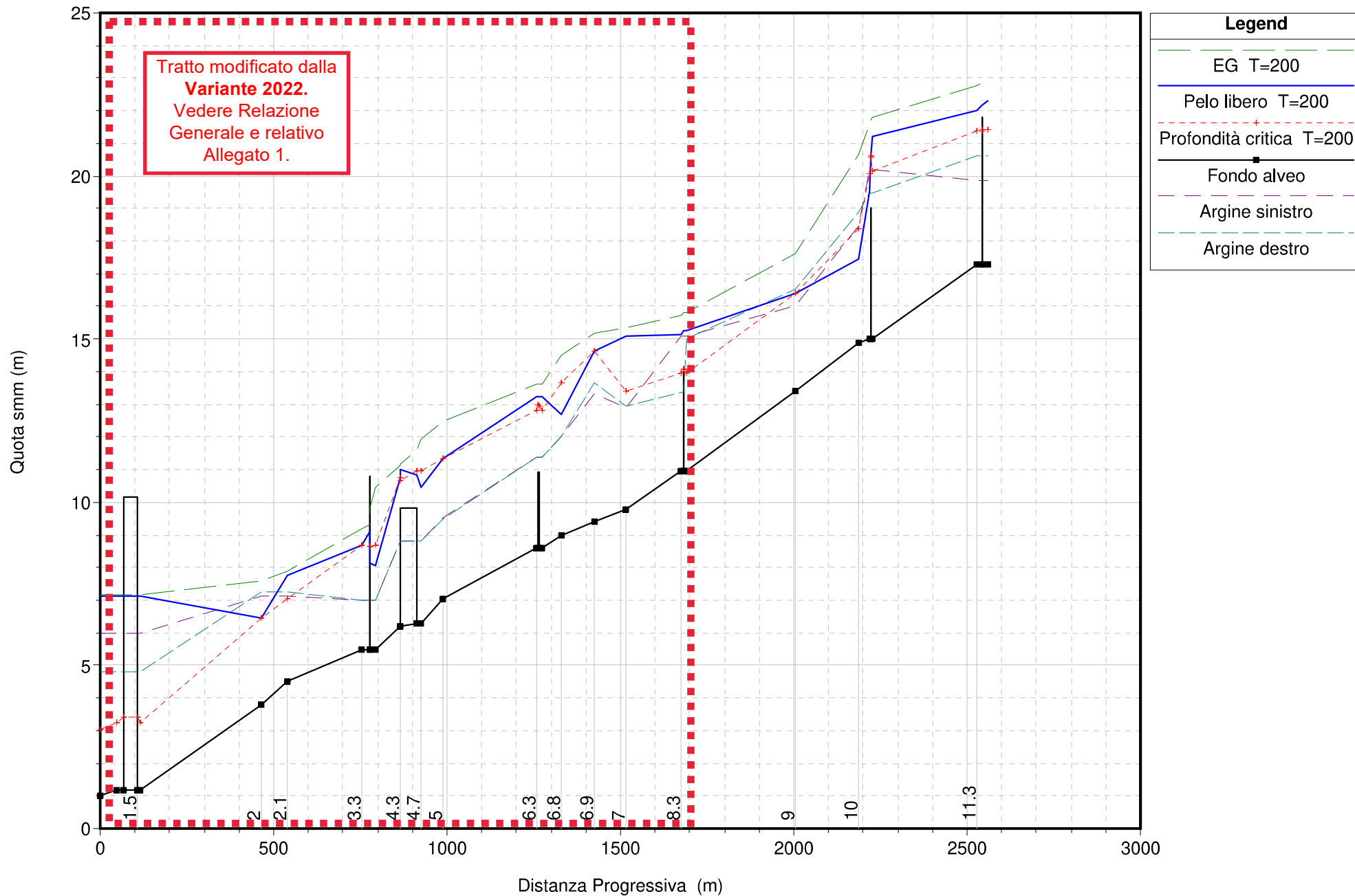
**Tratto dalla confluenza T. Sansobbia  
alla confluenza col Rio Remenone**

**Dalla sez. 1 alla sez. 11.7**

Rio Basco confluenza – profilo di moto permanente per T=50 anni

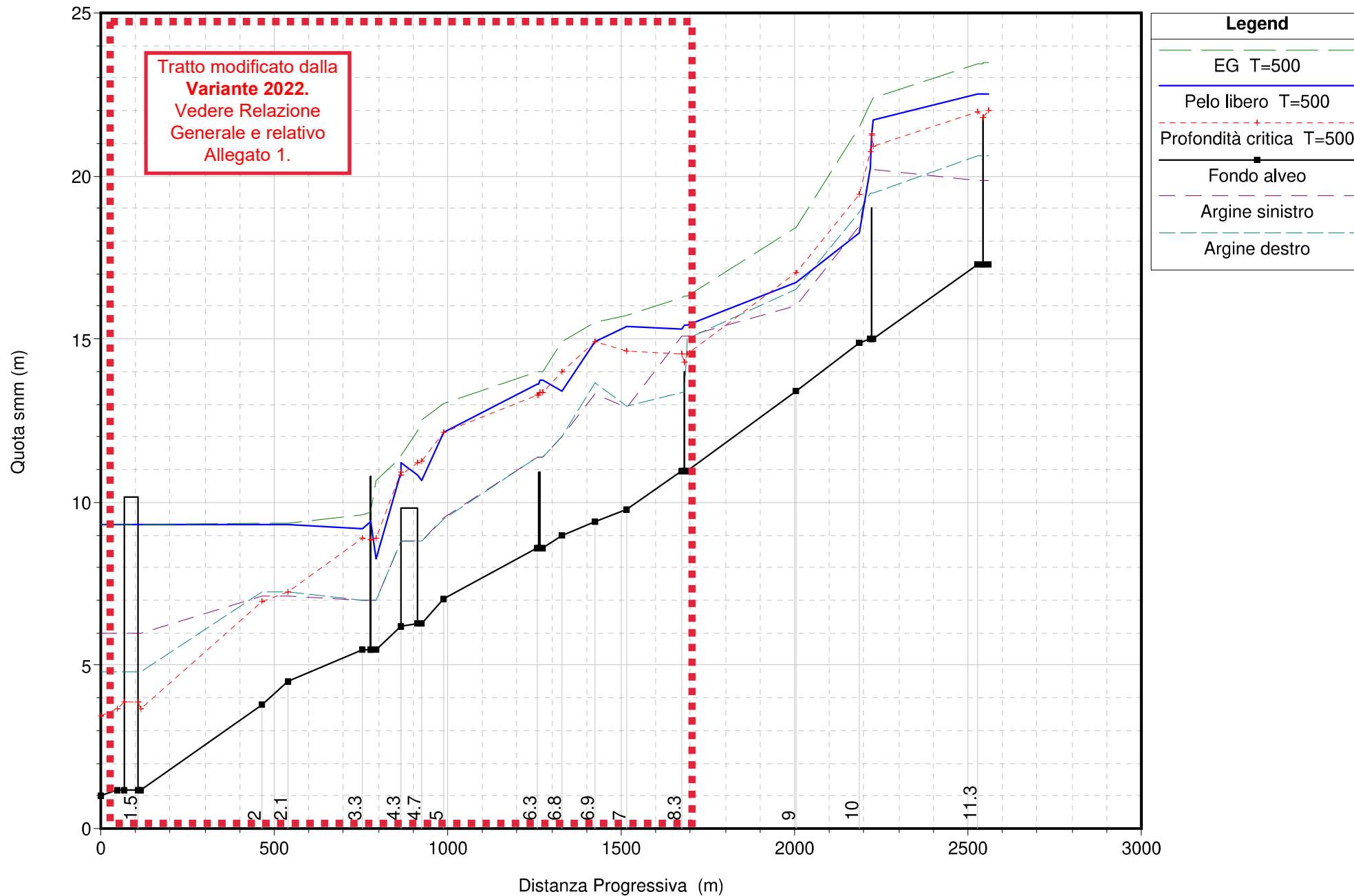


Rio Basco confluenza – profilo di moto permanente per T=200 anni





Rio Basco confluenza – profilo di moto permanente per T=500 anni



# **GEOMETRIA DELLE SEZIONI**

## **E LIVELLI IDRICI**

**PER LE PORTATE**

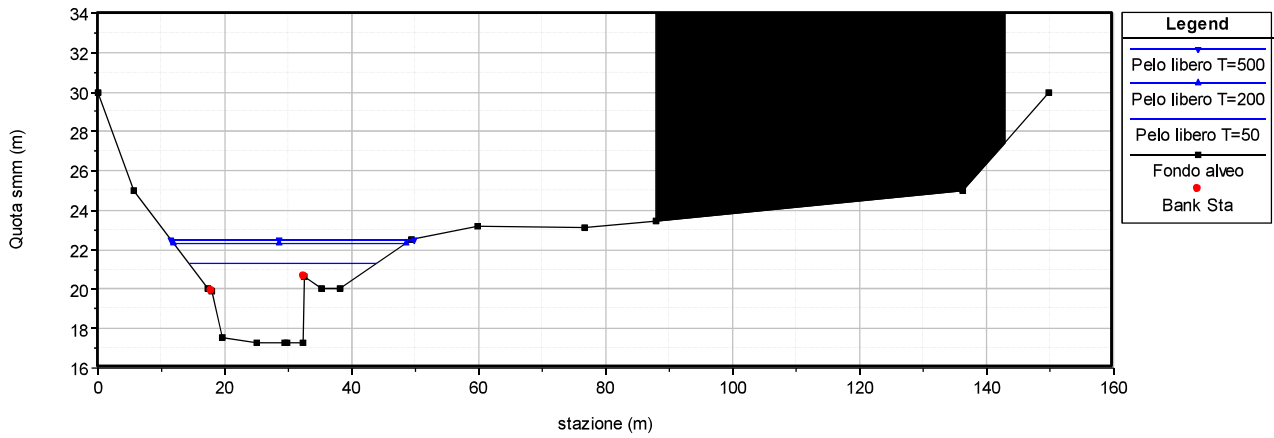
**T=50, 200, 500 ANNI**

### **RIOBASCO - Confluenza**

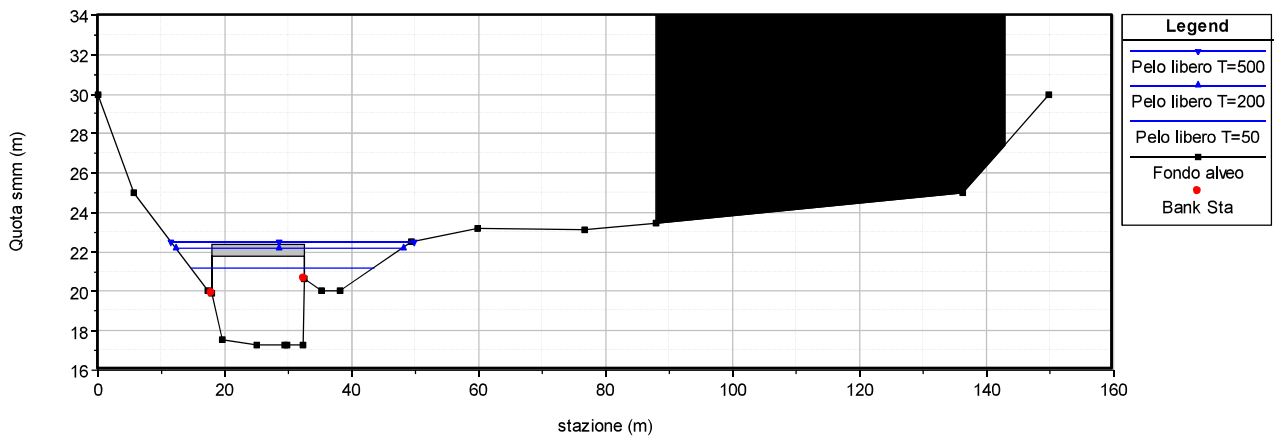
**Tratto dalla confluenza T. Sansobbia  
alla confluenza col Rio Remenone**

**Dalla sez. 1 alla sez. 11.7**

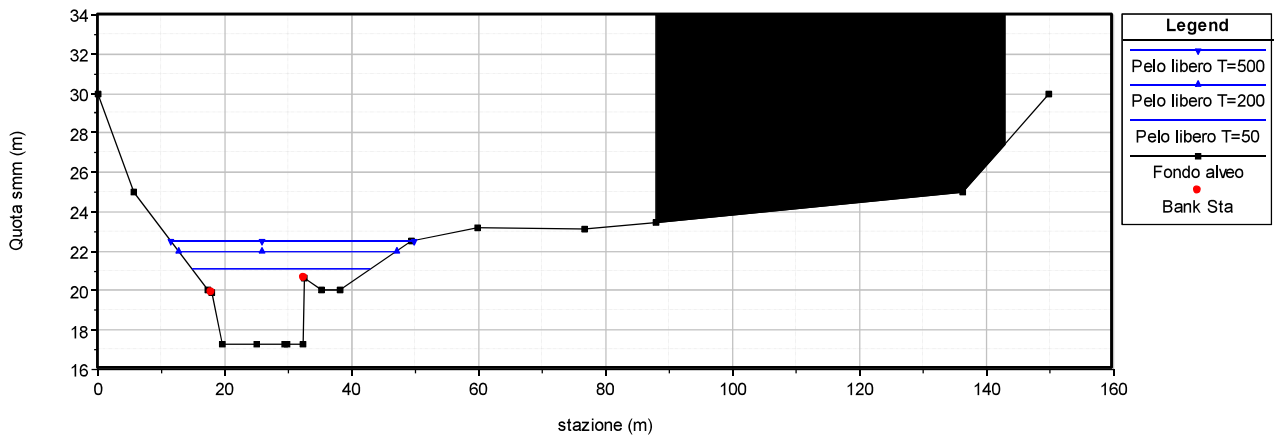
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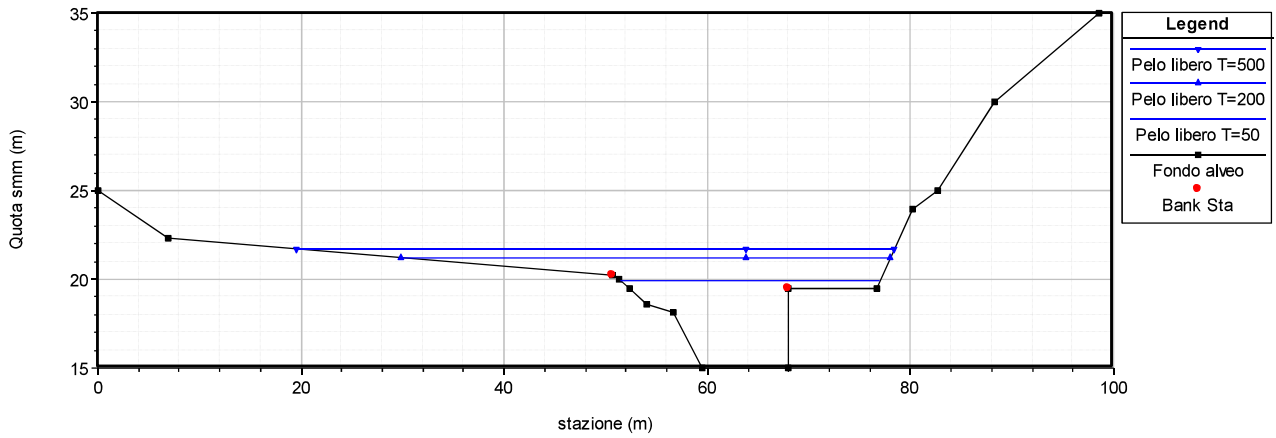
RS = 11.5 BR



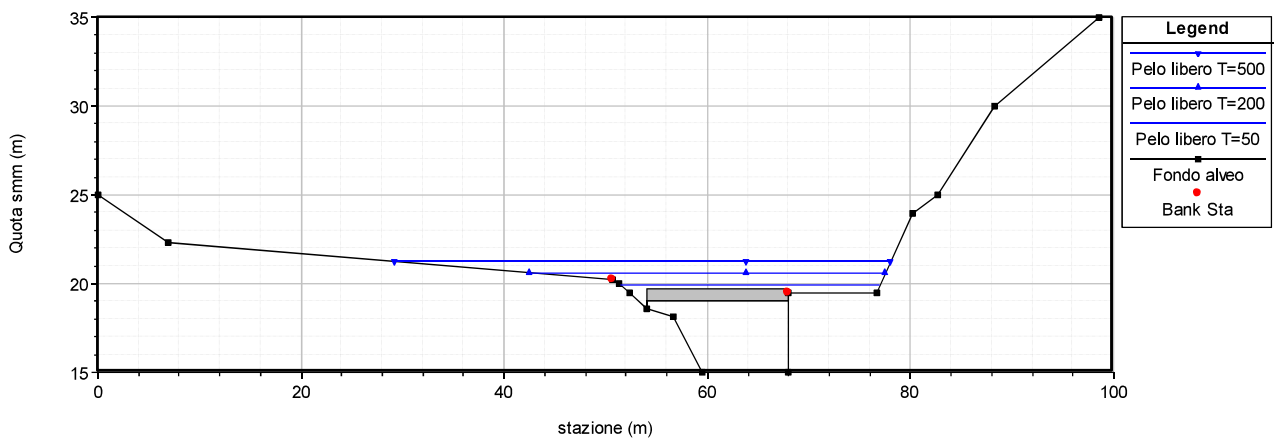
RS = 11.3



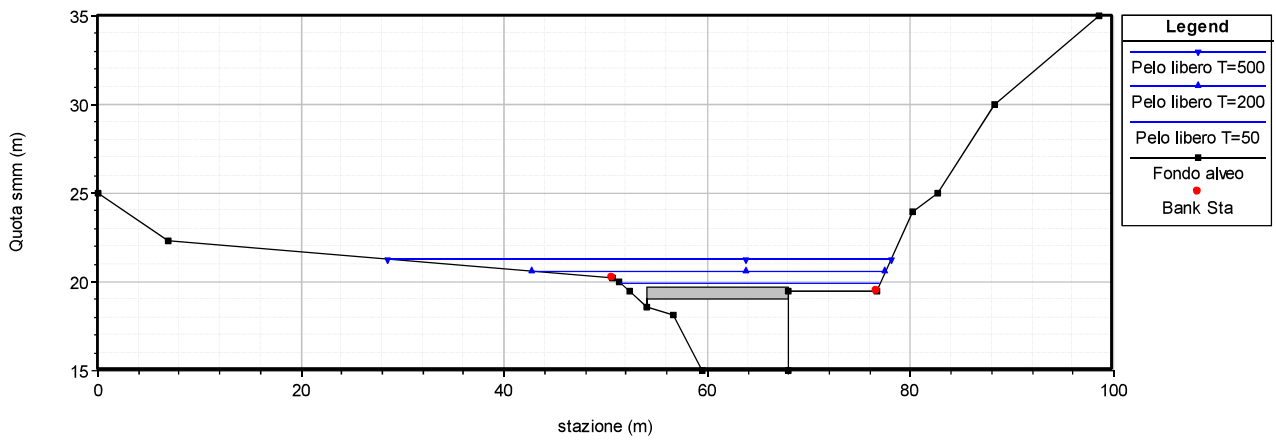
RS = 10.7



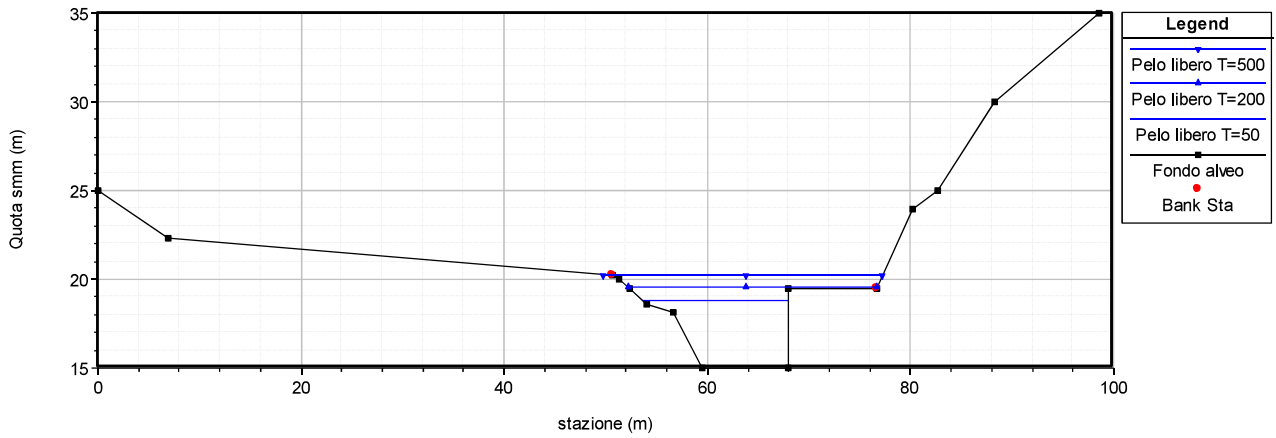
RS = 10.5 BR



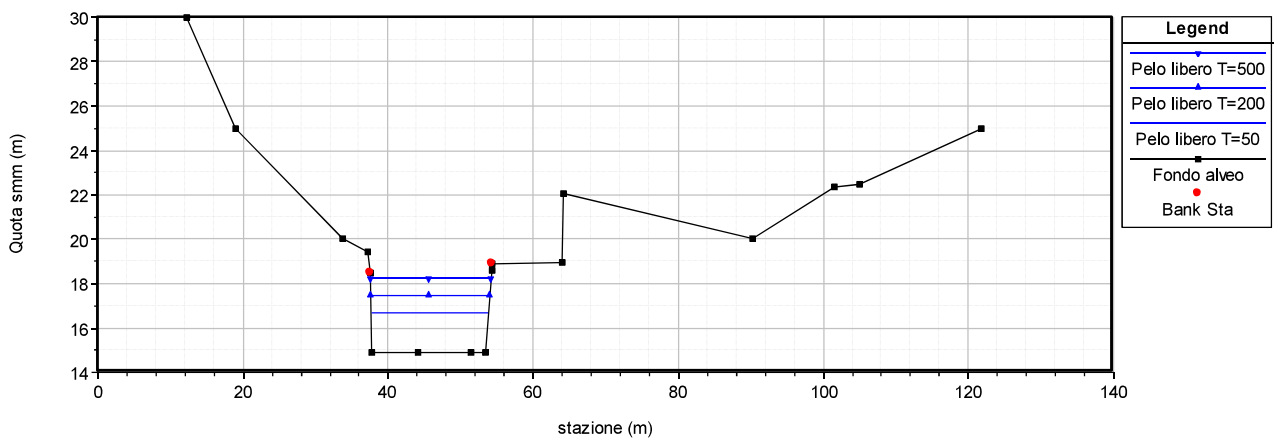
RS = 10.5 BR



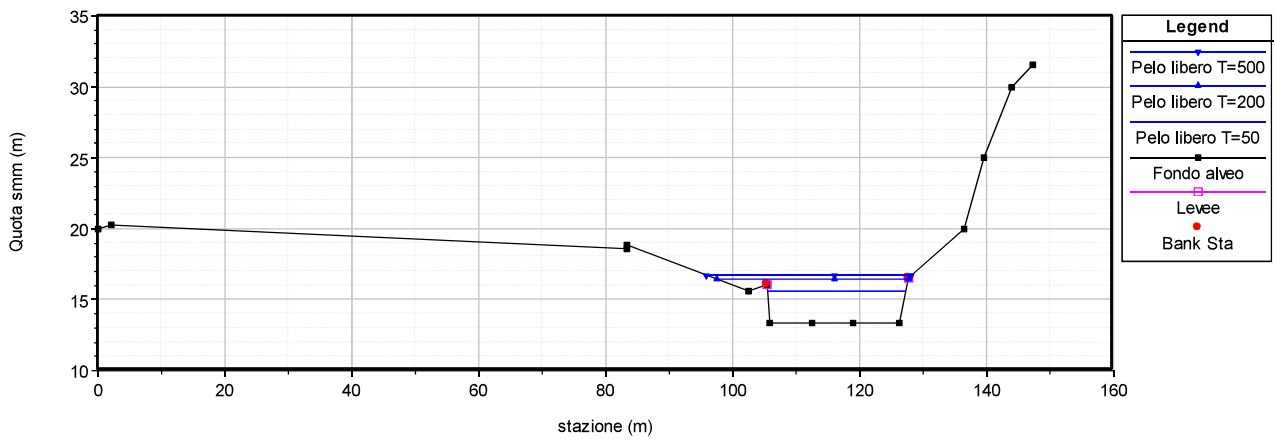
RS = 10.3



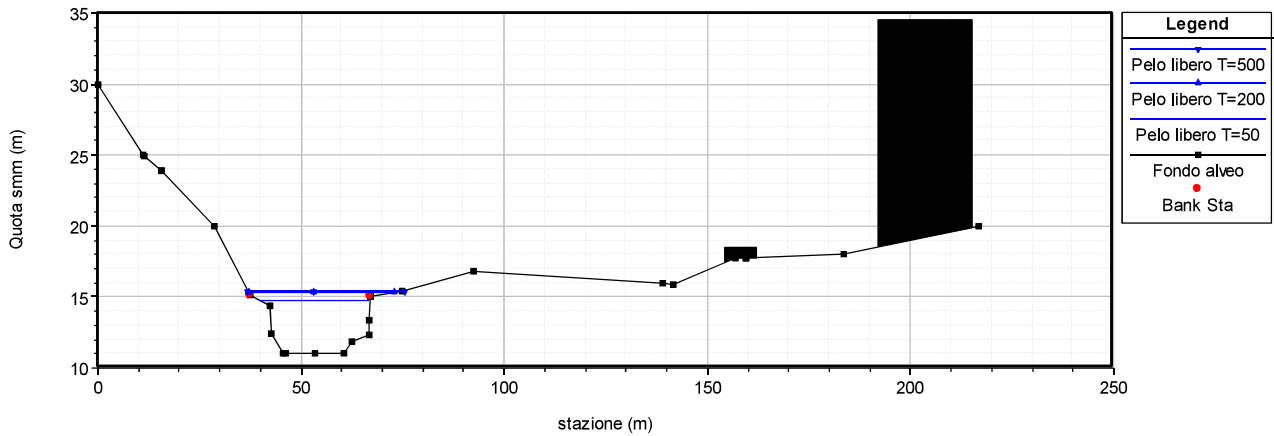
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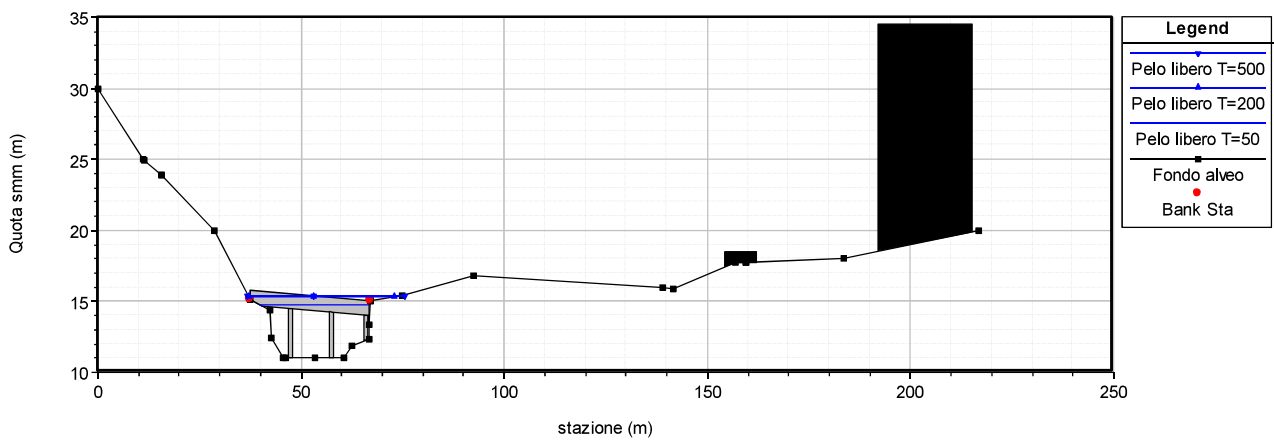
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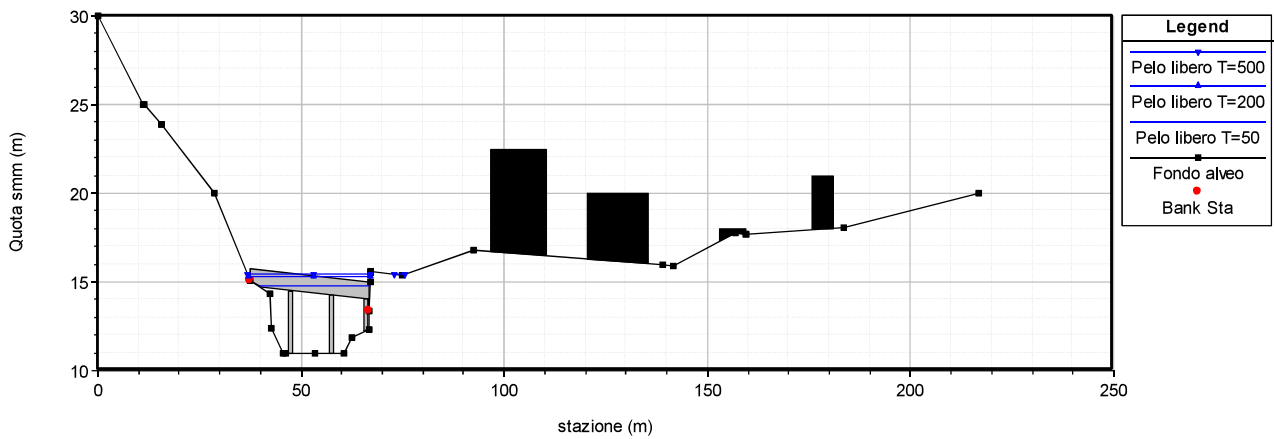
RS = 8.7

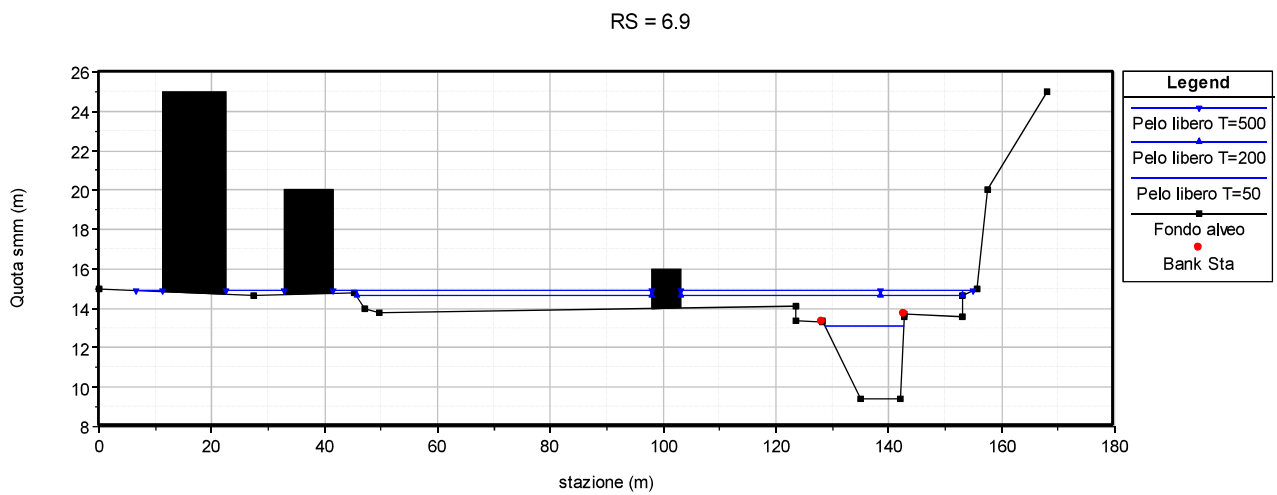
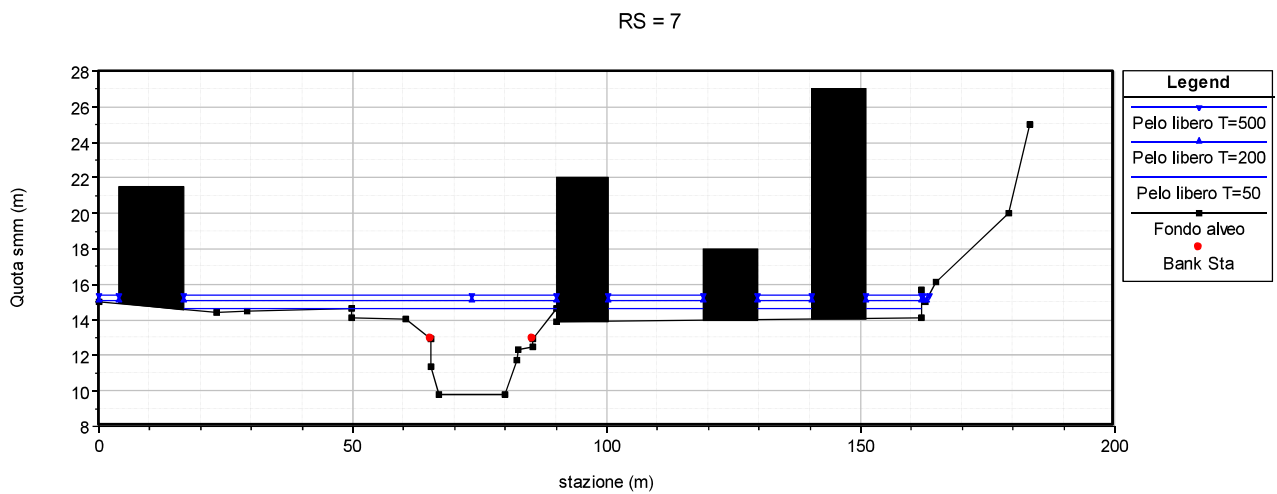
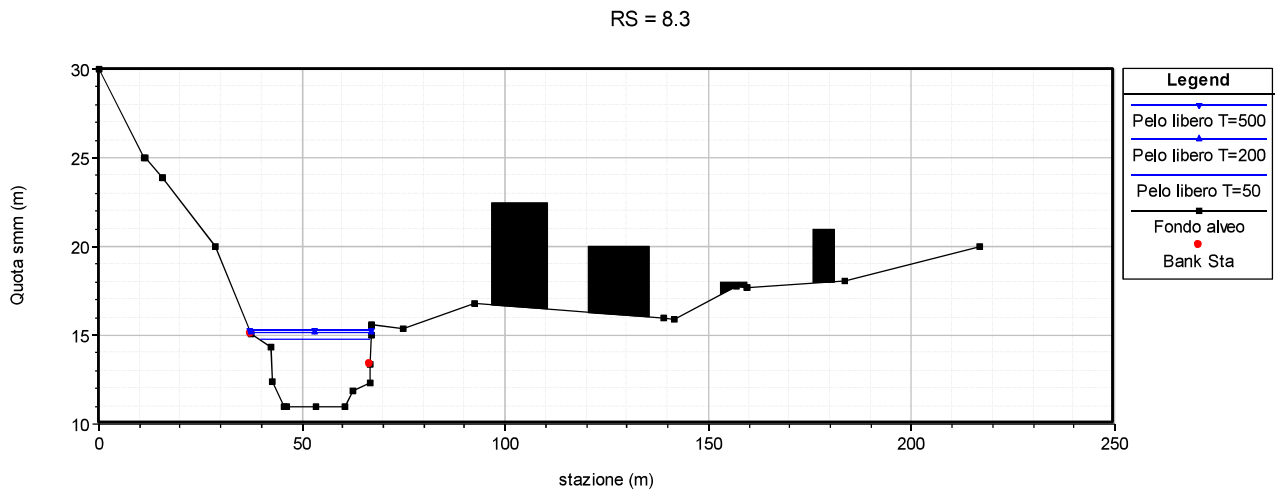


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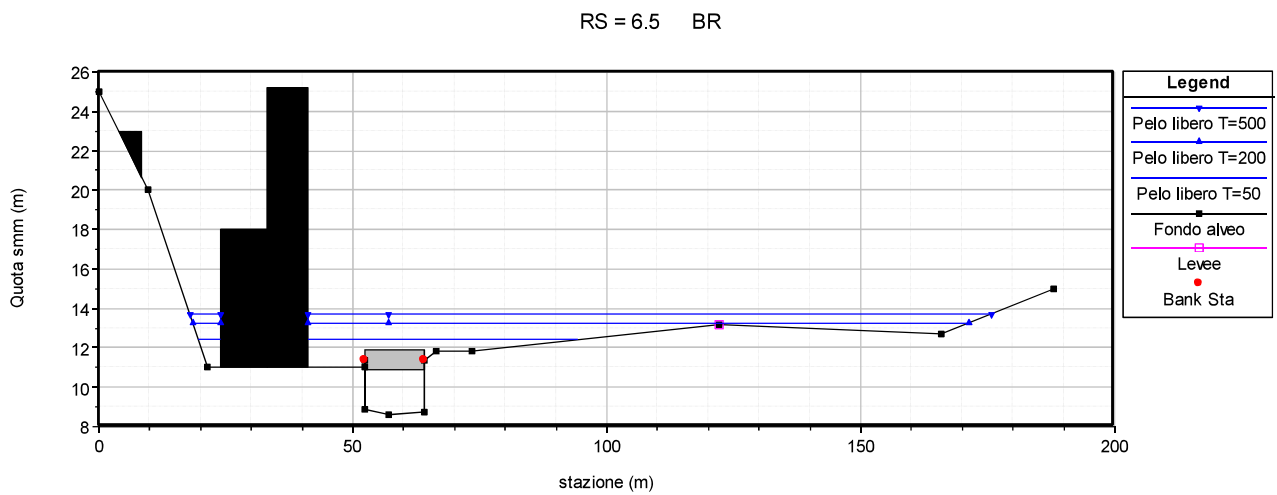
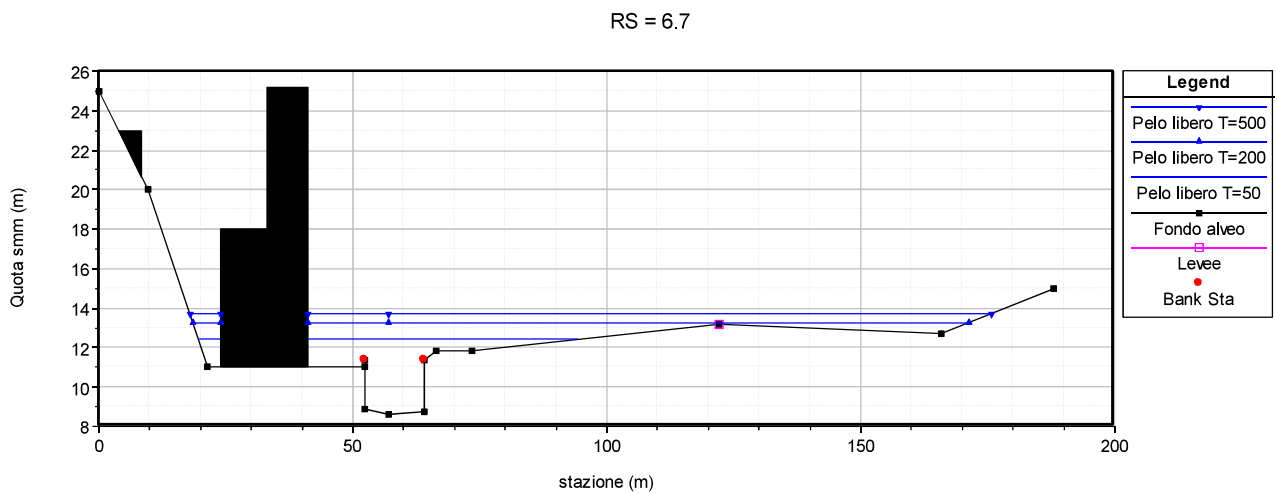
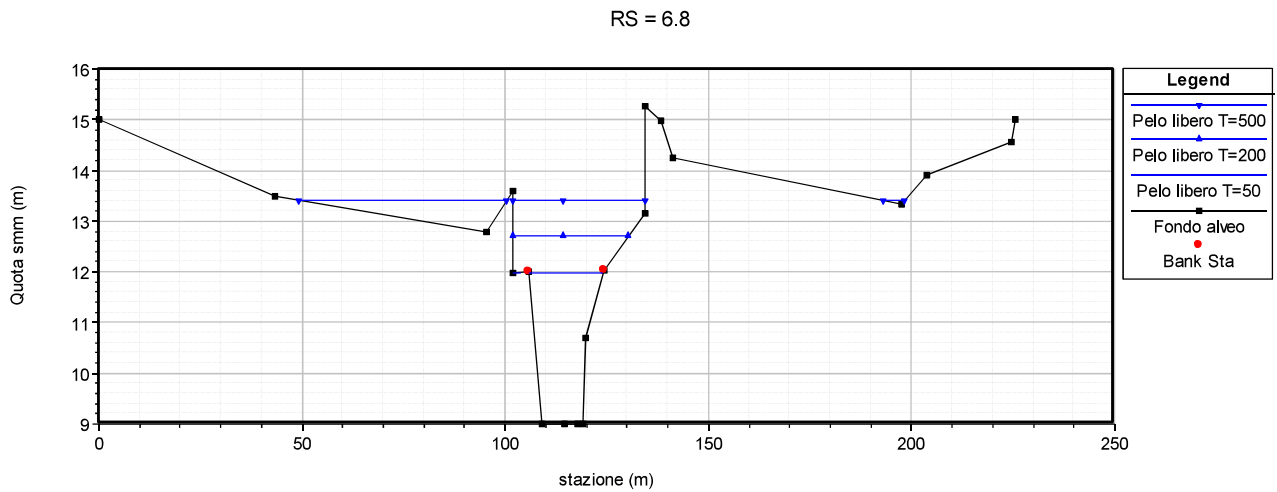


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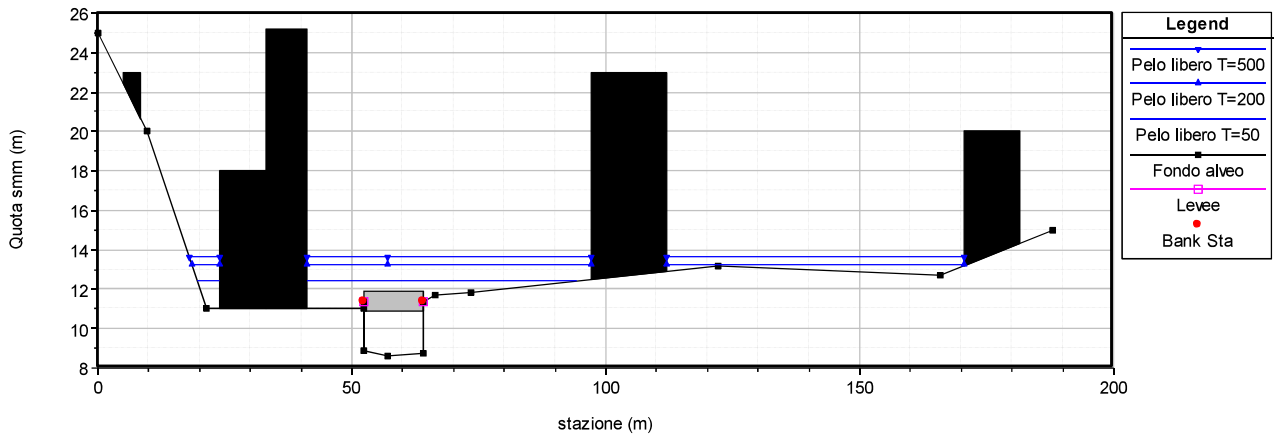
Tratto modificato dalla **Variante 2022**.  
Vedere Relazione Generale e relativo Allegato 1.



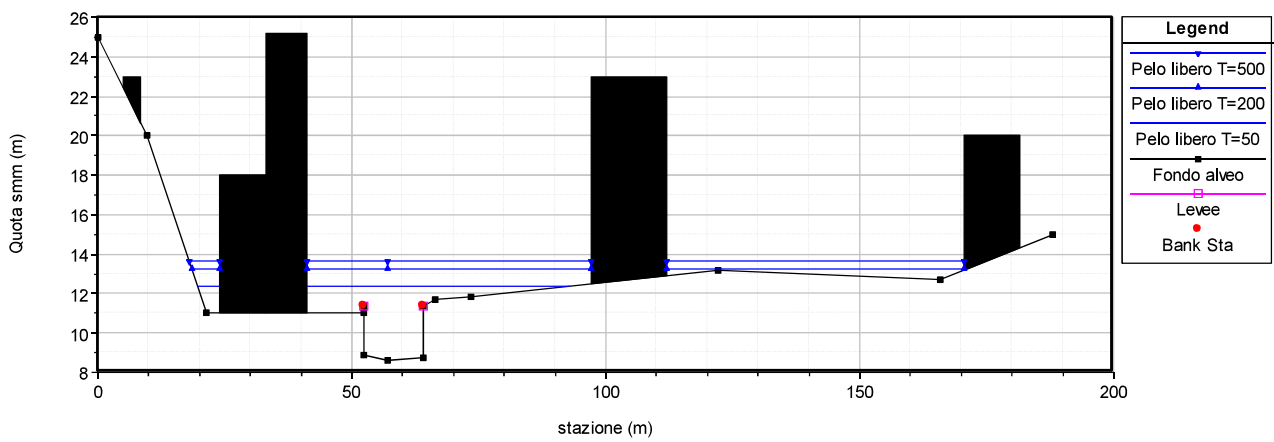
Tratto modificato dalla **Variante 2022**.  
Vedere Relazione Generale e relativo Allegato 1.



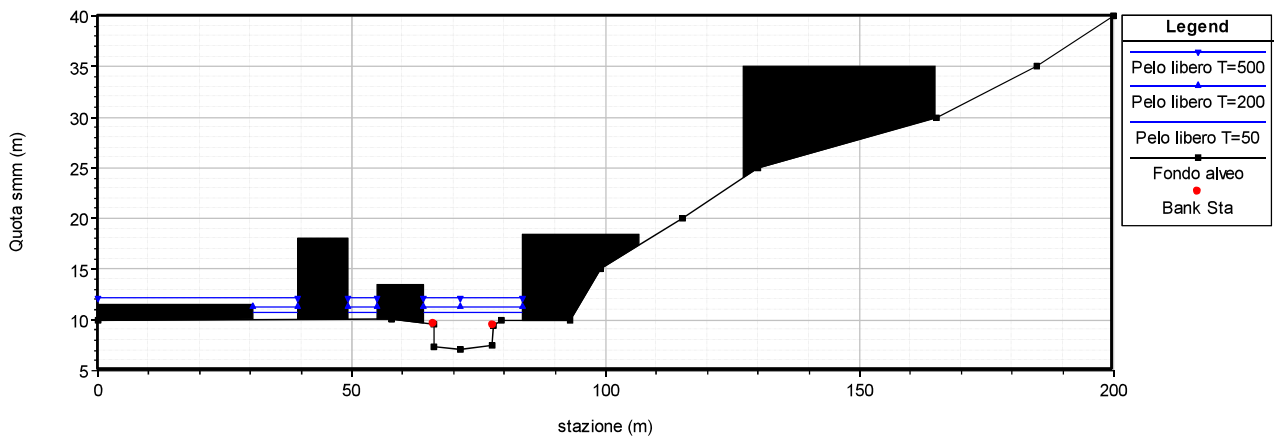
RS = 6.5 BR



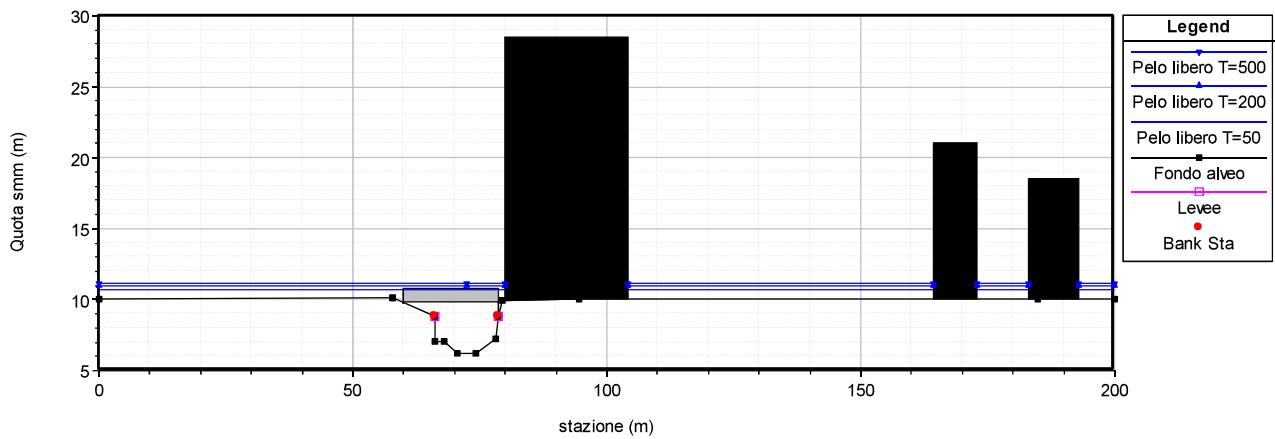
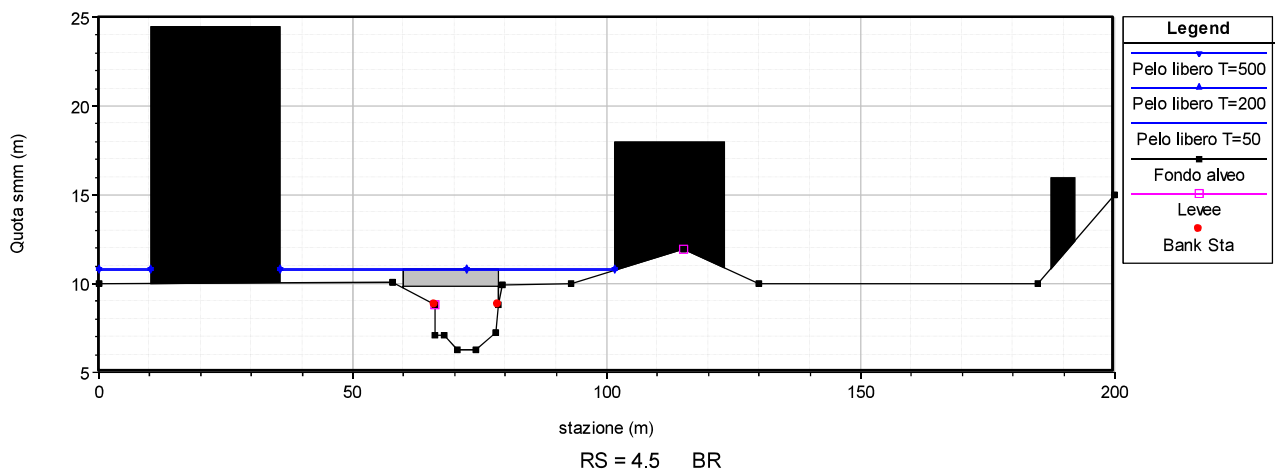
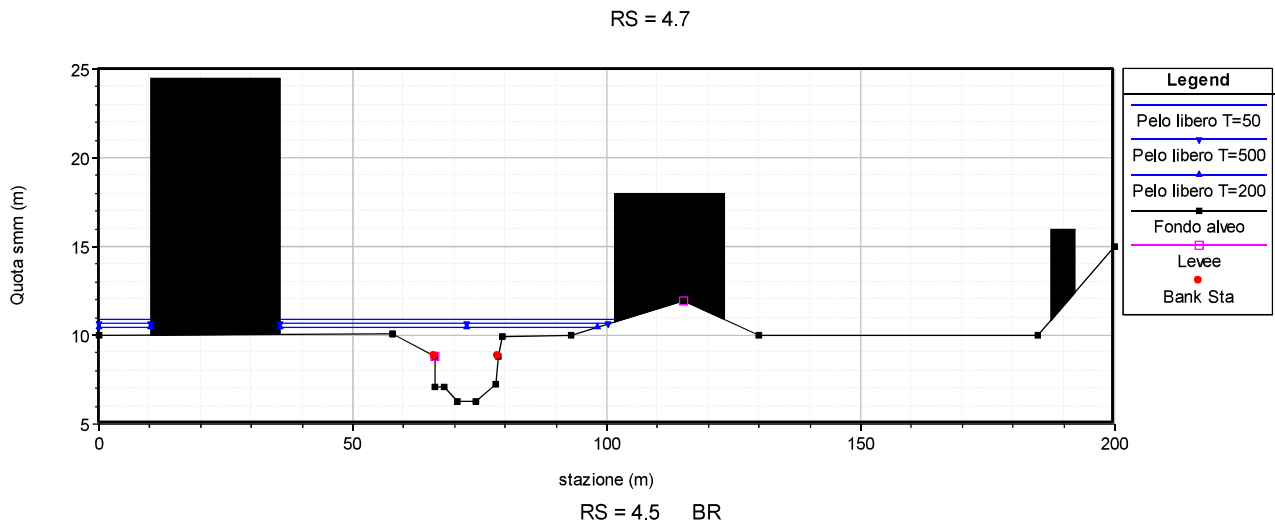
RS = 6.3



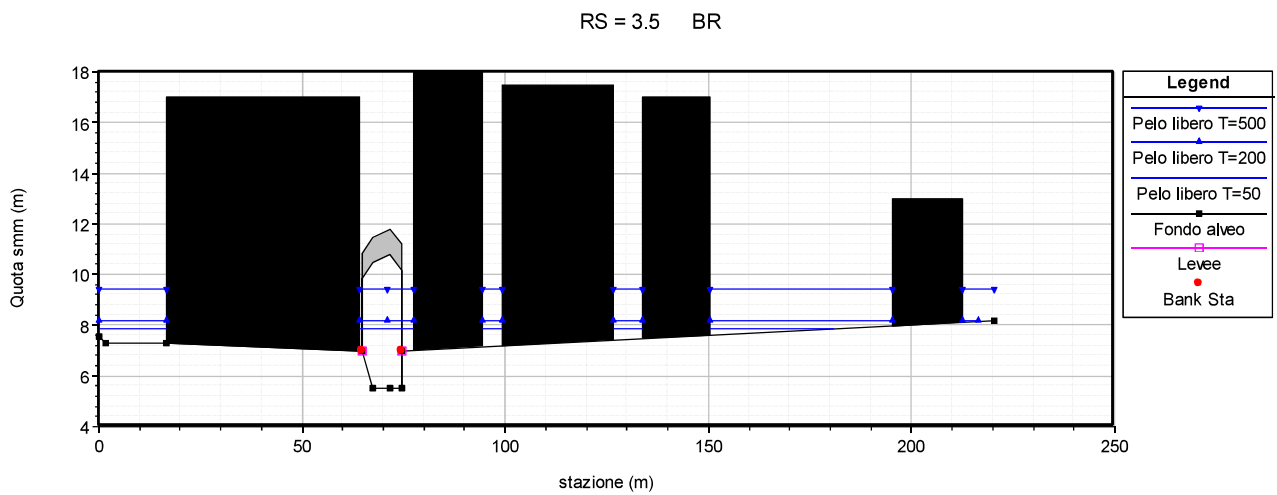
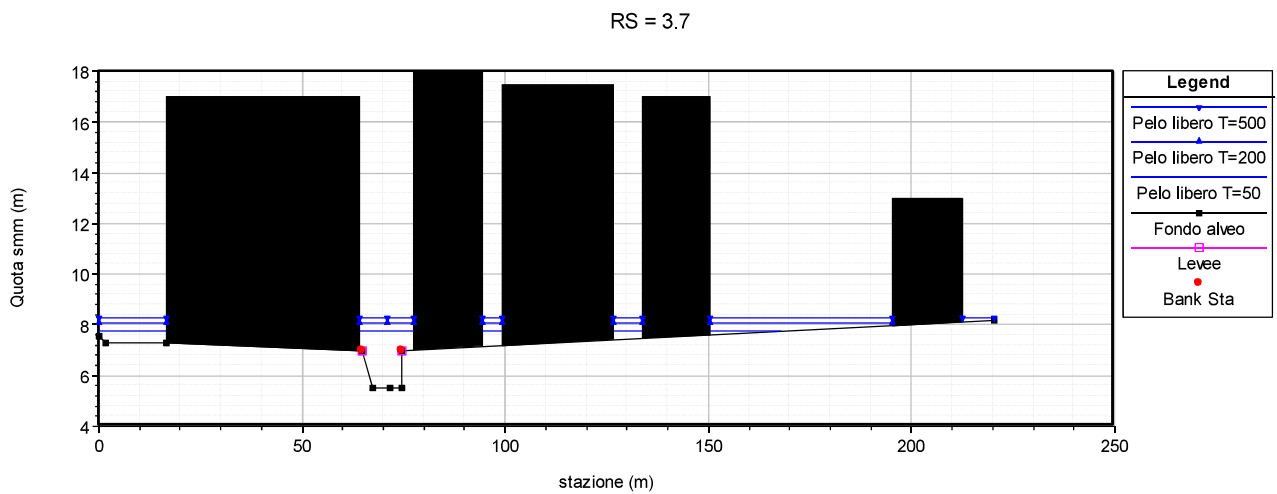
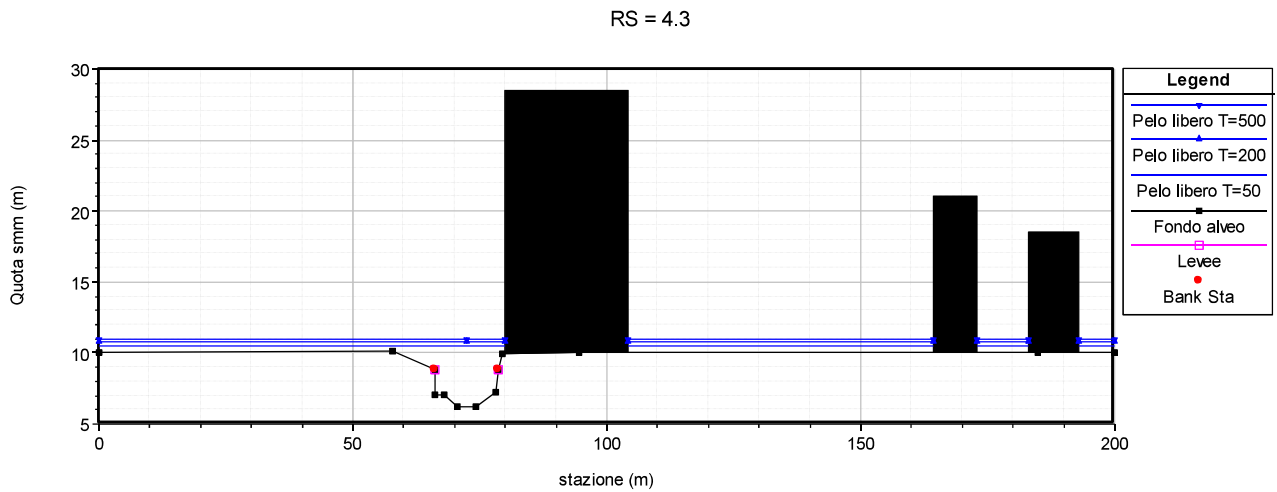
RS = 5



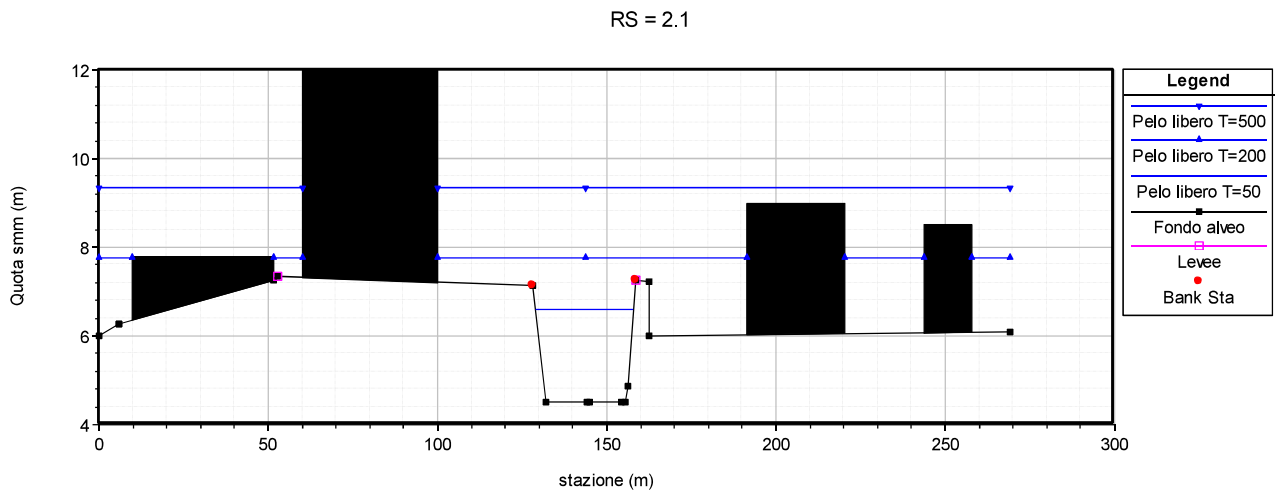
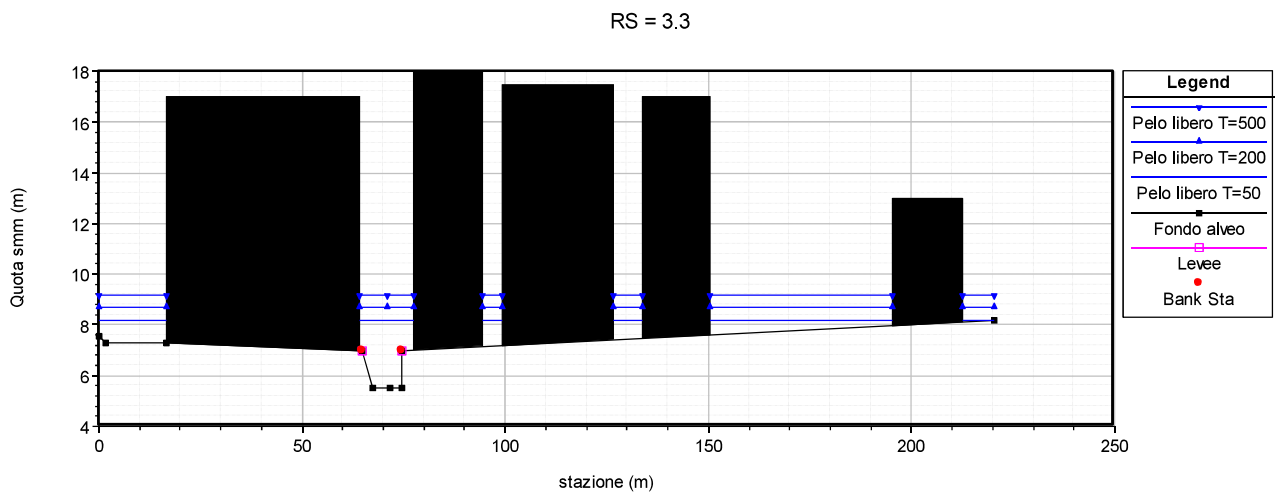
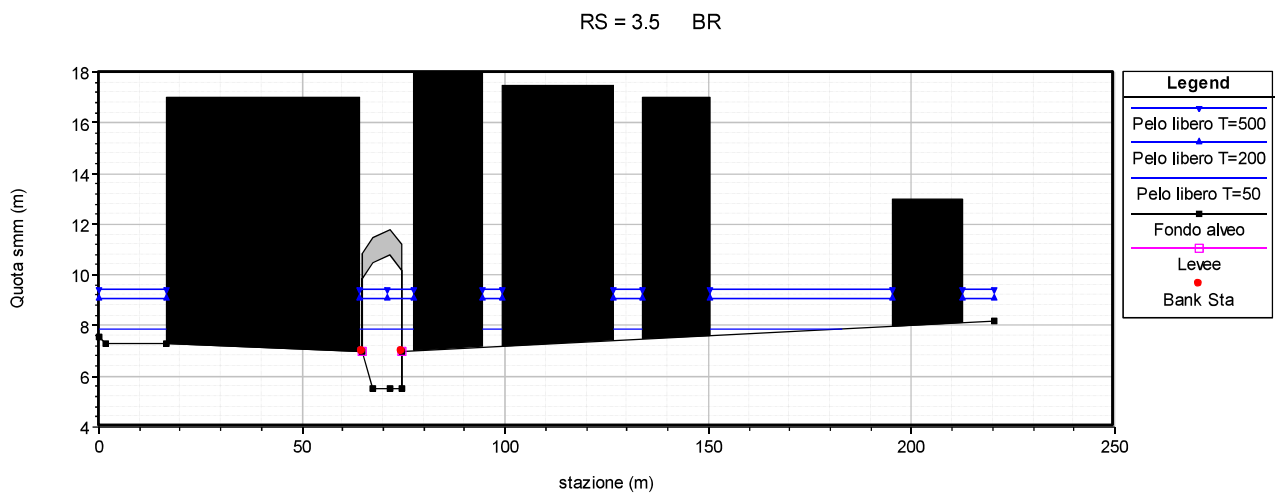
Tratto modificato dalla **Variante 2022**.  
Vedere Relazione Generale e relativo Allegato 1.



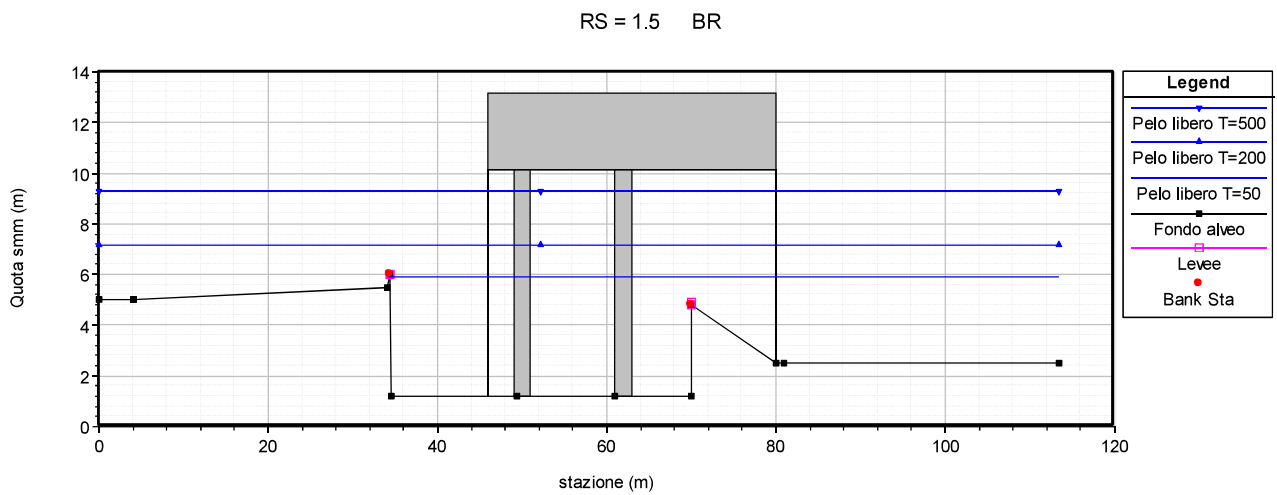
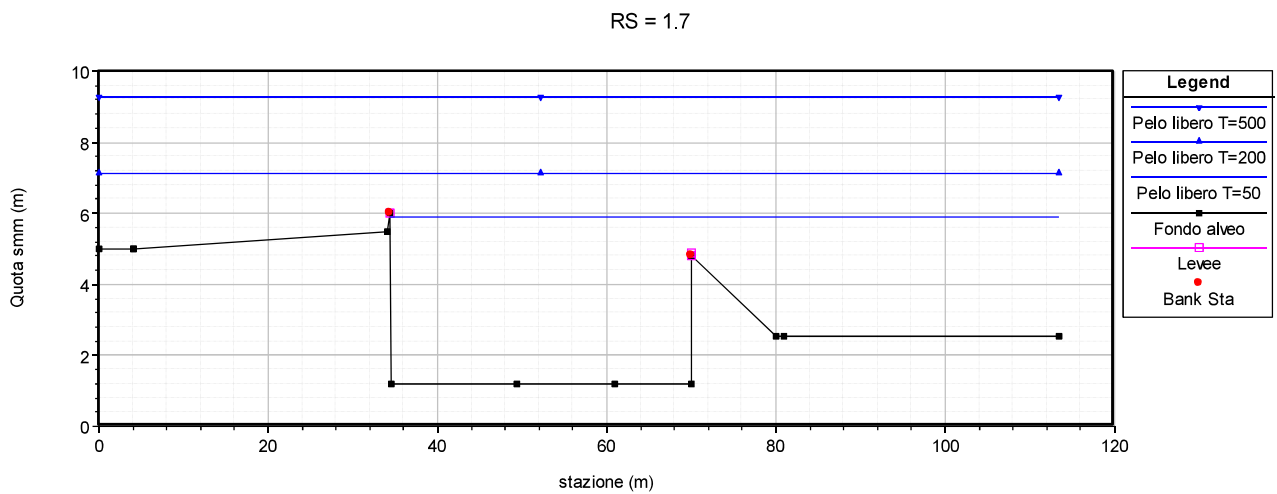
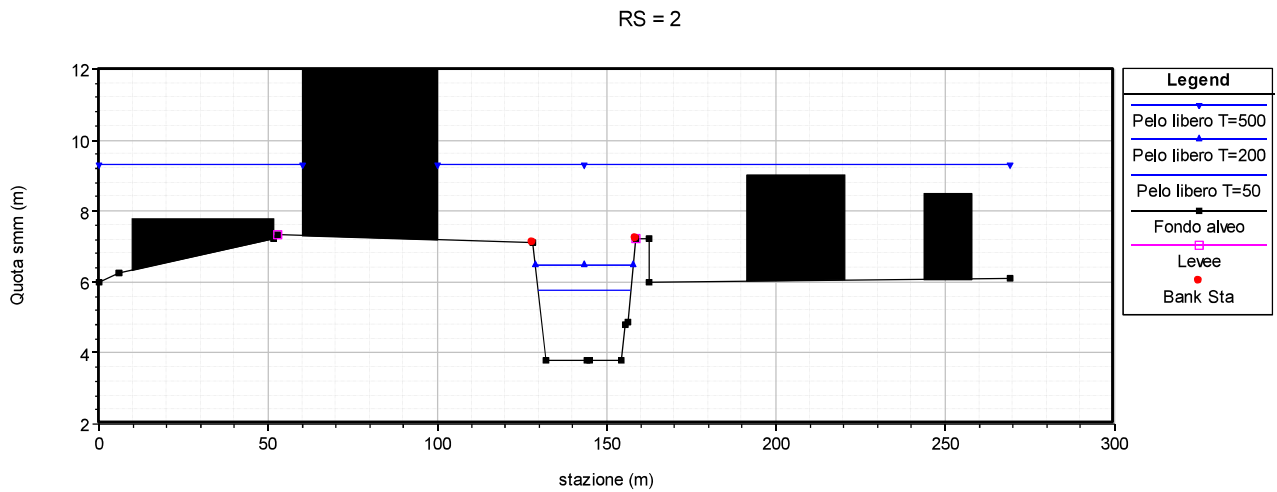
Tratto modificato dalla **Variante 2022**.  
Vedere Relazione Generale e relativo Allegato 1.



Tratto modificato dalla **Variante 2022**.  
Vedere Relazione Generale e relativo Allegato 1.

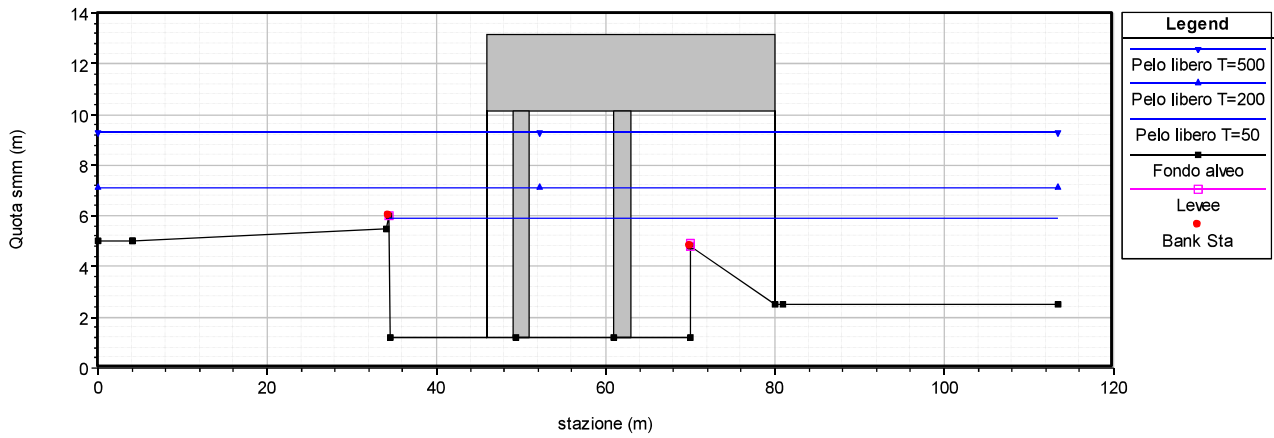


Tratto modificato dalla **Variante 2022**.  
Vedere Relazione Generale e relativo Allegato 1.

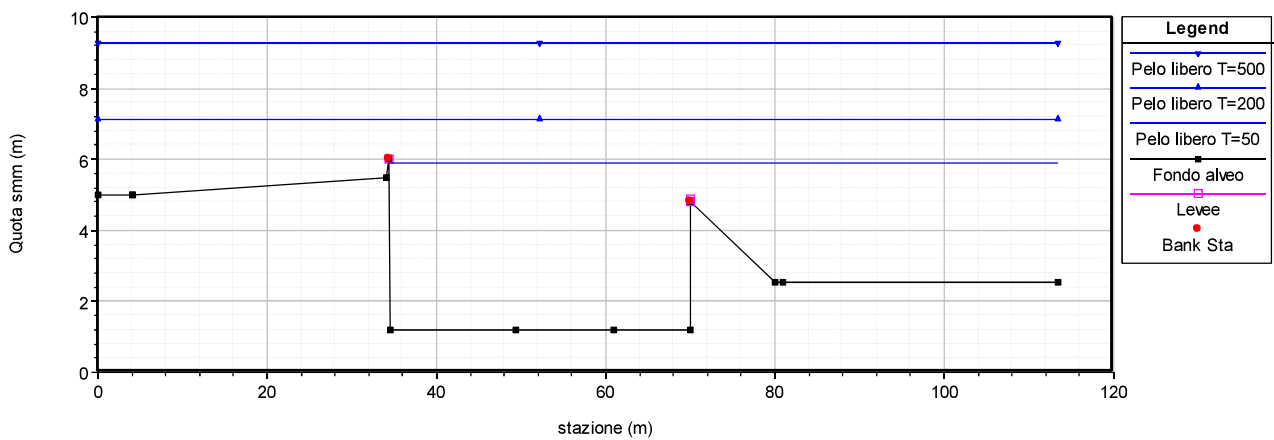


Tratto modificato dalla **Variante 2022**.  
Vedere Relazione Generale e relativo Allegato 1.

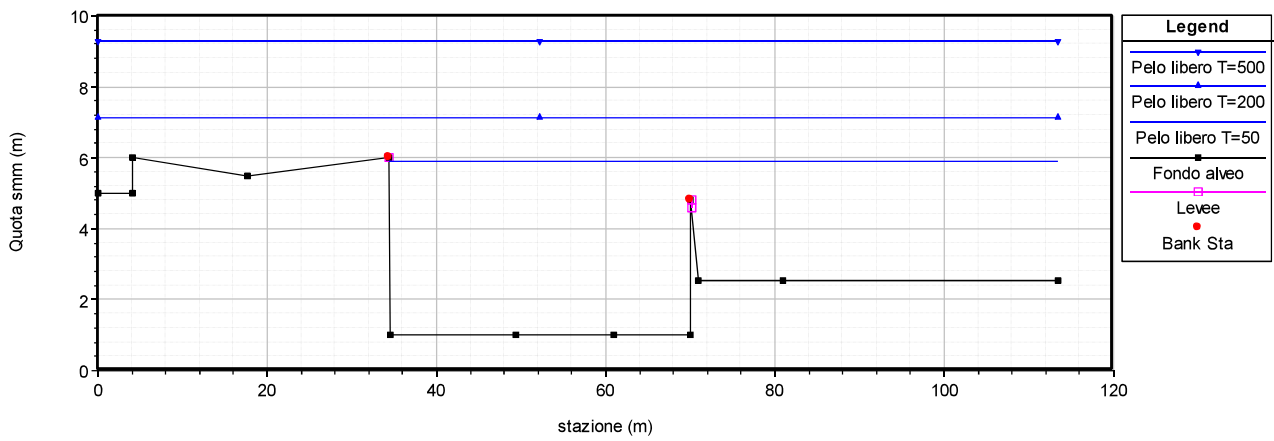
RS = 1.5 BR



RS = 1.3



RS = 1



Tratto modificato dalla Variante 2022.  
Vedere Relazione Generale e relativo Allegato 1.

**TABELLE DELLE GRANDEZZE  
IDRAULICHE SIGNIFICATIVE**

PER LE PORTATE

T=50, 200, 500 ANNI

**RIOBASCO - Confluenza**

**Tratto dalla confluenza T. Sansobbia  
alla confluenza col Rio Remenone**

**Dalla sez. 1 alla sez. 11.7**

Rio Basco - confluenza (T=50 anni)										
Sezioni	Portata totale (m <sup>3</sup> /s)	Fondo alveo (m)	Argine sinistro (m)	Argine destro (m)	Pelo libero (m)	Profondità critica (m)	Energia (m)	Velocità (m/s)	Area bagnata (m <sup>2</sup> )	N° Froude
11,7	207	17,29	19,87	20,63	21,28	20,42	21,84	3,42	67,71	0,56
11,5	Bridge									
11,3	207	17,29	19,87	20,63	21,08	20,35	21,72	3,66	62,49	0,61
10,7	207	15	20,21	19,47	19,91	18,78	20,54	3,56	60,75	0,61
10,5	Bridge									
10,3	207	15	20,21	19,47	18,78	18,78	20,18	5,23	39,56	1,01
10	207	14,9	18,47	18,88	16,67	17,49	19,44	7,38	28,06	1,79
9	207	13,4	16,02	16,54	15,56	15,56	16,61	4,53	45,65	1
8,7	207	10,98	15,11	15	14,77	13,26	15,08	2,44	84,76	0,44
8,5	Bridge									
8,3	207	10,98	15,11	13,35	14,77	13,26	15,07	2,45	84,62	0,44
7	207	9,8	12,89	12,96	14,66	12,59	14,86	2,1	133,07	0,32
6,9	207	9,4	13,32	13,68	13,11	13,11	14,55	5,3	39,04	1,01
6,8	207	9	12,01	12,02	11,99	12,3	13,41	5,28	39,2	1,15
6,7	207	8,6	11,38	11,38	12,41	12,1	12,93	3,52	76,06	0,58
6,5	Bridge									
6,3	207	8,6	11,38	11,38	12,38	12,09	12,91	3,56	75,05	0,59
5	207	7,05	9,51	9,48	10,75	10,75	11,6	4,37	58,01	0,75
4,7	207	6,3	8,82	8,82	10,92	10,49	11,2	2,69	111,55	0,42
4,5	Bridge									
4,3	207	6,2	8,82	8,82	10,48	10,48	10,81	3,01	119,4	0,49
3,7	207	5,5	7	7	7,76	8,39	10,21	7,78	36,88	1,74
3,5	Bridge									
3,3	207	5,5	7	7	8,2	8,39	8,87	4,54	72,5	0,92
2,1	207	4,5	7,12	7,24	6,58	6,41	7,31	3,77	54,95	0,88
2	207	3,8	7,12	7,24	5,78	5,78	6,68	4,2	49,33	1
1,7	207	1,2	6	4,81	5,91	2,71	5,93	0,74	303,04	0,11
1,5	Bridge									
1,3	207	1,2	6	4,81	5,9	2,71	5,92	0,74	302,1	0,11
1	207	1	6	4,81	5,89	2,51	5,91	0,7	319,2	0,15

Tratto modificato dalla **Variante 2022**.  
Vedere Relazione Generale e relativo Allegato 1.



Rio Basco - confluenza (T=200 anni)										
Sezioni	Portata totale (m <sup>3</sup> /s)	Fondo alveo (m)	Argine sinistro (m)	Argine destro (m)	Pelo libero (m)	Profondità critica (m)	Energia (m)	Velocità (m/s)	Area bagnata (m <sup>2</sup> )	N° Froude
11,7	325	17,29	19,87	20,63	22,3	21,41	22,92	3,77	101,18	0,55
11,5	Bridge									
11,3	325	17,29	19,87	20,63	21,99	21,37	22,76	4,13	91,23	0,62
10,7	325	15	20,21	19,47	21,21	20,15	21,78	3,52	106,03	0,53
10,5	Bridge									
10,3	325	15	20,21	19,47	19,52	20,08	21,59	6,37	50,99	1,41
10	325	14,9	18,47	18,88	17,45	18,39	20,67	7,95	40,86	1,61
9	325	13,4	16,02	16,54	16,42	16,42	17,63	4,93	68,59	0,92
8,7	325	10,98	15,11	15	15,27	13,95	15,82	3,28	99,88	0,57
8,5	Bridge									
8,3	325	10,98	15,11	13,35	15,15	13,94	15,74	3,41	95,35	0,6
7	325	9,8	12,89	12,96	15,1	13,42	15,36	2,55	184,43	0,38
6,9	325	9,4	13,32	13,68	14,62	14,62	15,17	3,8	126,33	0,59
6,8	325	9	12,01	12,02	12,71	13,65	14,5	6,02	57,29	1,14
6,7	325	8,6	11,38	11,38	13,26	12,82	13,64	3,33	153,69	0,5
6,5	Bridge									
6,3	325	8,6	11,38	11,38	13,24	12,81	13,61	3,27	144,53	0,49
5	325	7,05	9,51	9,48	11,32	11,32	12,48	5,27	77,66	0,84
4,7	325	6,3	8,82	8,82	10,45	10,95	11,95	5,86	76,28	0,97
4,5	Bridge									
4,3	325	6,2	8,82	8,82	10,75	10,75	11,14	3,55	161,15	0,56
3,7	325	5,5	7	7	8,07	8,68	10,47	8,37	60,84	1,74
3,5	Bridge									
3,3	325	5,5	7	7	8,68	8,68	9,21	4,31	117,96	0,8
2,1	325	4,5	7,12	7,24	7,75	7,05	7,87	1,83	236,83	0,34
2	325	3,8	7,12	7,24	6,46	6,44	7,61	4,75	68,48	0,99
1,7	325	1,2	6	4,81	7,14	3,24	7,16	0,79	465,88	0,1
1,5	Bridge									
1,3	325	1,2	6	4,81	7,13	3,24	7,15	0,79	464,74	0,1
1	325	1	6	4,81	7,12	3,04	7,15	0,79	466,57	0,15

Tratto modificato dalla **Variante 2022**.  
Vedere Relazione Generale e relativo Allegato 1.

Rio Basco - confluenza (T=500 anni)										
Sezioni	Portata totale (m <sup>3</sup> /s)	Fondo alveo (m)	Argine sinistro (m)	Argine destro (m)	Pelo libero (m)	Profondità critica (m)	Energia (m)	Velocità (m/s)	Area bagnata (m <sup>2</sup> )	N° Froude
11,7	432	17,29	19,87	20,63	22,51	22,02	23,46	4,69	109,3	0,67
11,5	Bridge									
11,3	432	17,29	19,87	20,63	22,52	21,98	23,45	4,64	110,42	0,66
10,7	432	15	20,21	19,47	21,7	20,9	22,38	3,92	132,48	0,56
10,5	Bridge									
10,3	432	15	20,21	19,47	20,26	20,76	22,21	6,2	69,88	1,21
10	432	14,9	18,47	18,88	18,24	19,42	21,51	8,01	53,93	1,42
9	432	13,4	16,02	16,54	16,72	17,01	18,41	5,85	77,85	1,05
8,7	432	10,98	15,11	15	15,42	14,55	16,3	4,16	105,52	0,71
8,5	Bridge									
8,3	432	10,98	15,11	13,35	15,32	14,55	16,26	4,31	100,41	0,74
7	432	9,8	12,89	12,96	15,41	14,62	15,72	2,89	220,46	0,41
6,9	432	9,4	13,32	13,68	14,92	14,92	15,51	4,1	160,19	0,62
6,8	432	9	12,01	12,02	13,4	13,99	14,92	5,79	95,15	0,98
6,7	432	8,6	11,38	11,38	13,73	13,38	14,02	3,1	218,5	0,44
6,5	Bridge									
6,3	432	8,6	11,38	11,38	13,63	13,28	13,98	3,36	190,91	0,48
5	432	7,05	9,51	9,48	12,13	12,13	13,05	4,98	124,66	0,72
4,7	432	6,3	8,82	8,82	10,66	11,24	12,5	6,74	91,44	1,08
4,5	Bridge									
4,3	432	6,2	8,82	8,82	10,93	10,93	11,38	3,95	189,55	0,61
3,7	432	5,5	7	7	8,27	8,91	10,66	8,74	78,96	1,75
3,5	Bridge									
3,3	432	5,5	7	7	9,19	8,91	9,61	3,91	165,65	0,67
2,1	432	4,5	7,12	7,24	9,34	7,24	9,38	1,15	552,75	0,17
2	432	3,8	7,12	7,24	9,32	6,95	9,36	1,15	566,45	0,16
1,7	432	1,2	6	4,81	9,31	3,67	9,33	0,67	712,13	0,08
1,5	Bridge									
1,3	432	1,2	6	4,81	9,3	3,67	9,32	0,67	711,53	0,08
1	432	1	6	4,81	9,3	3,47	9,32	0,68	713,59	0,12

Tratto modificato dalla **Variante 2022**.  
Vedere Relazione Generale e relativo Allegato 1.

# **PROFILI DI RIGURGITO**

PER LE PORTATE

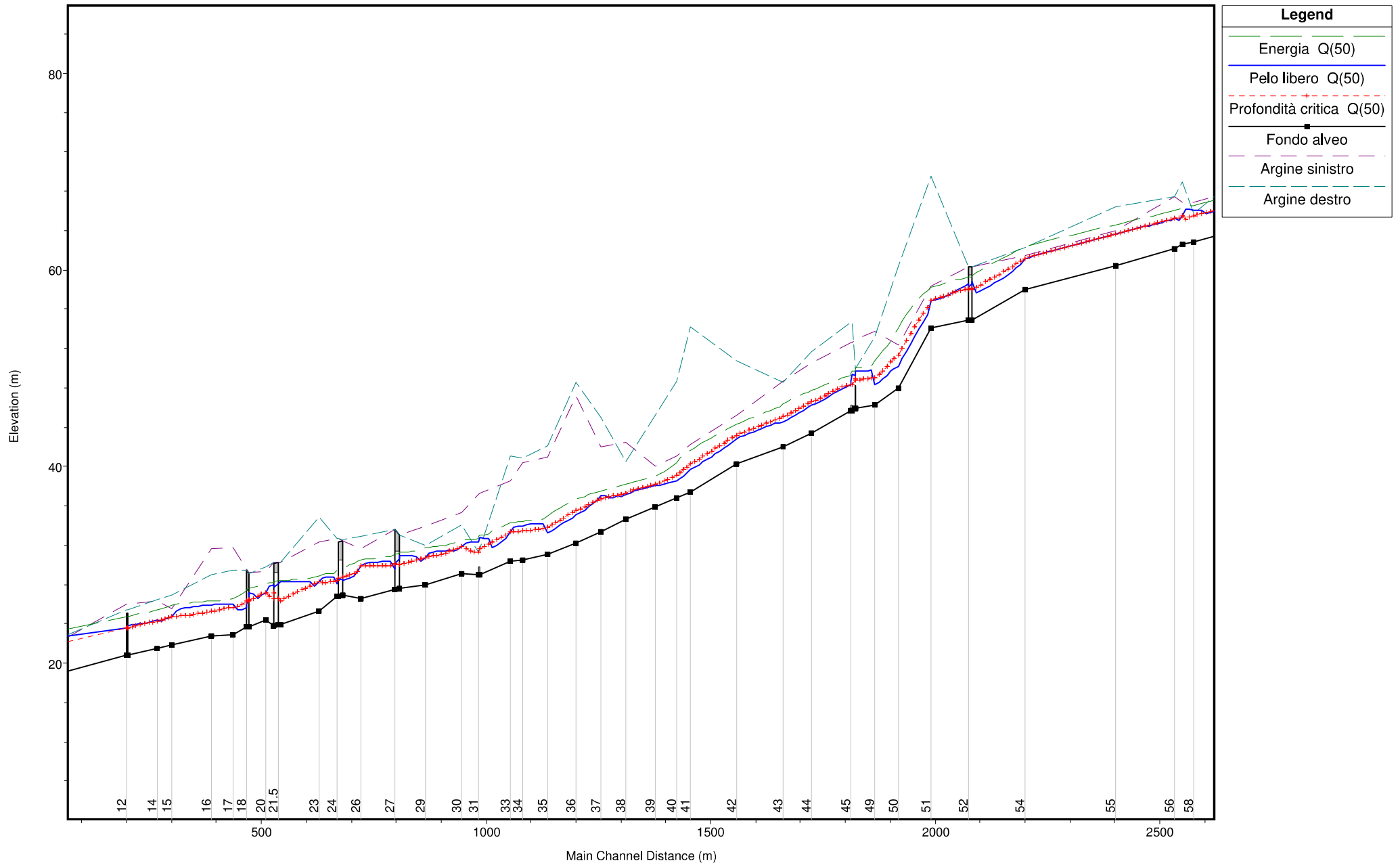
T=50, 200, 500 ANNI

## **RIOBASCO – Medio**

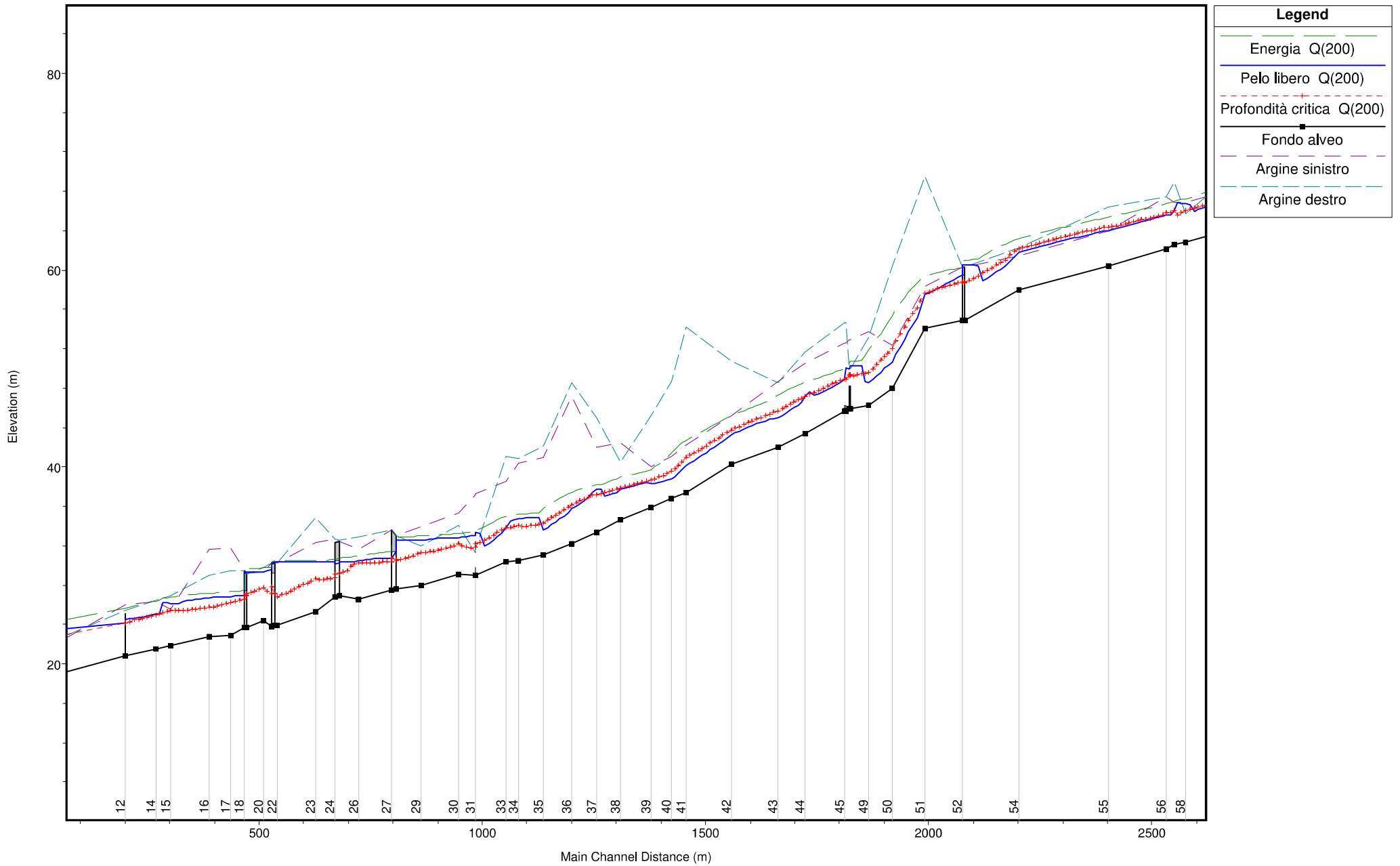
**Tratto dalla confluenza con il Rio Remenone  
alla confluenza col Rio delle Lunghe**

**Dalla sez. 12 alla sez. 57**

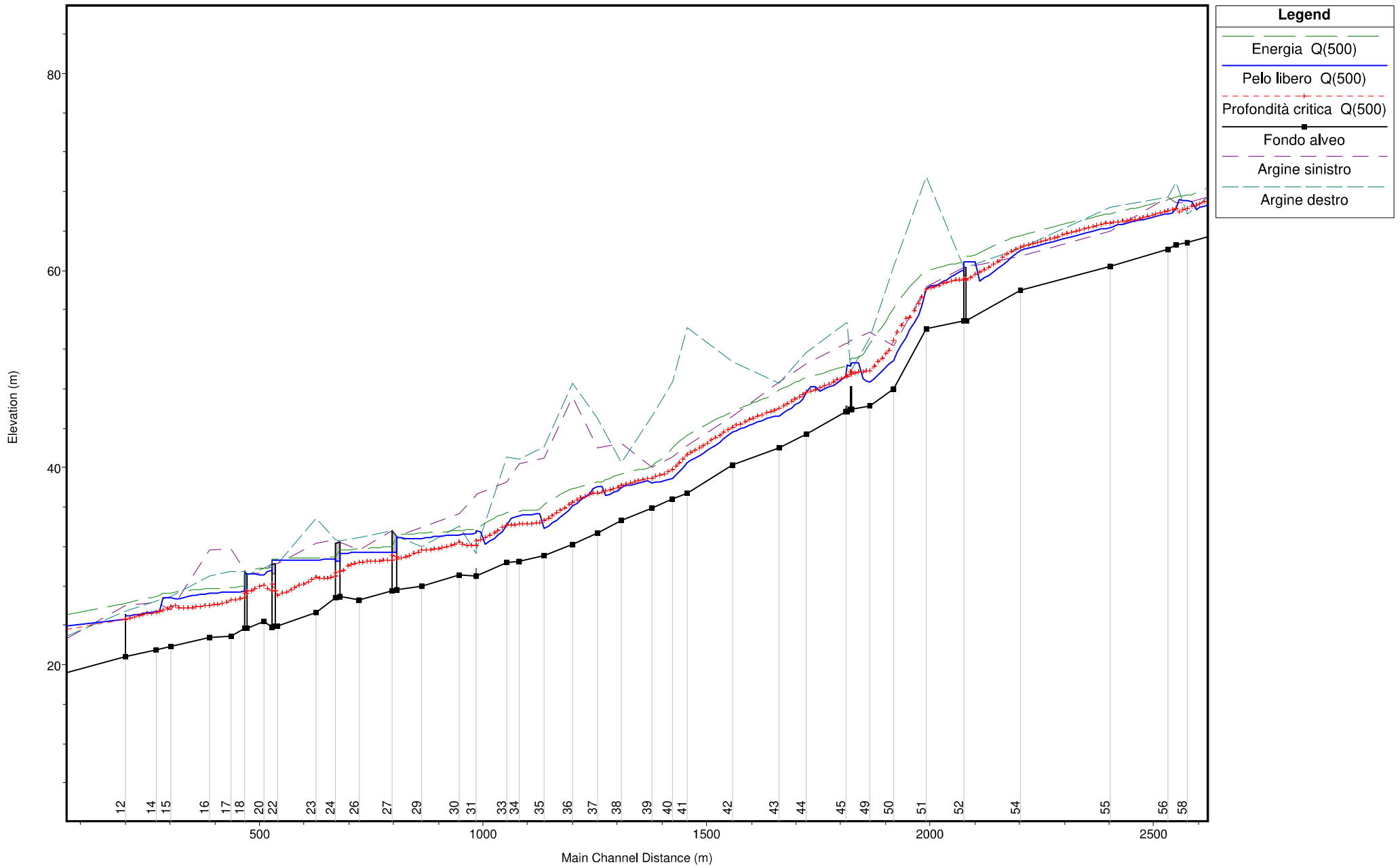
Torrente Riobasco medio – Profilo longitudinale di moto permanente per T = 50 anni



Torrente Riobasco medio – Profilo longitudinale di moto permanente per T = 200 anni



Torrente Riobasco medio – Profilo longitudinale di moto permanente per T = 500 anni



# **GEOMETRIA DELLE SEZIONI**

## **E LIVELLI IDRICI**

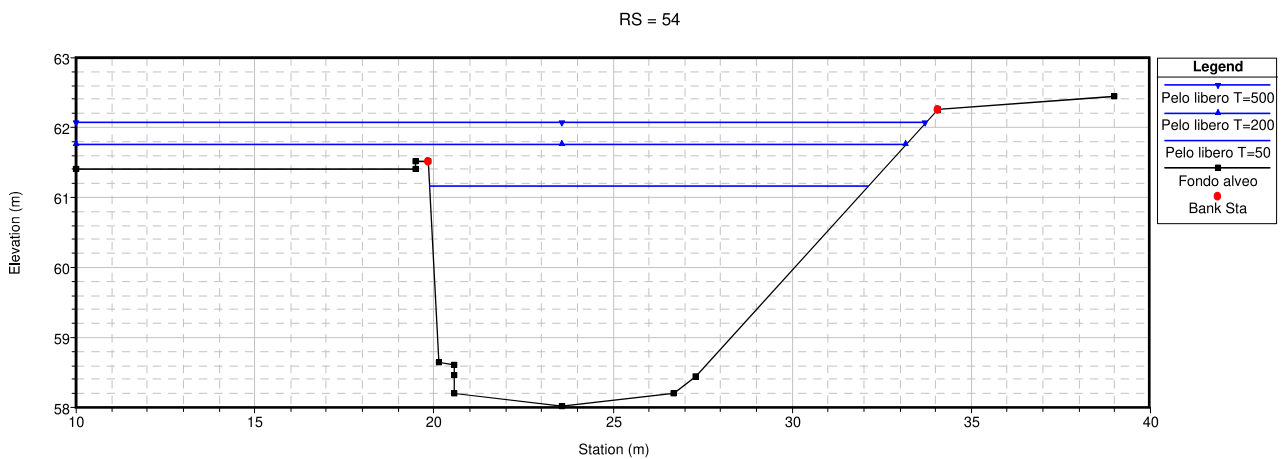
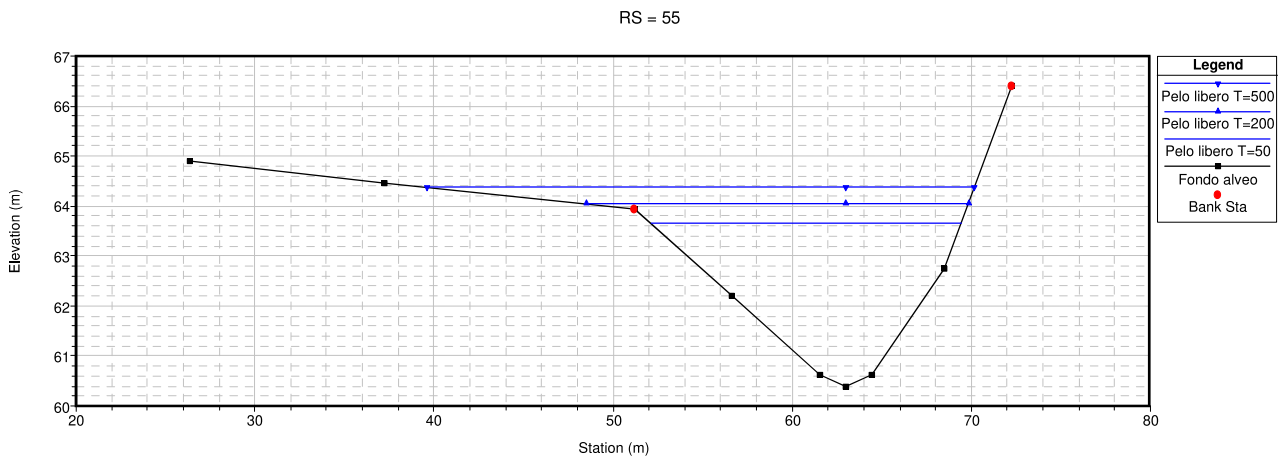
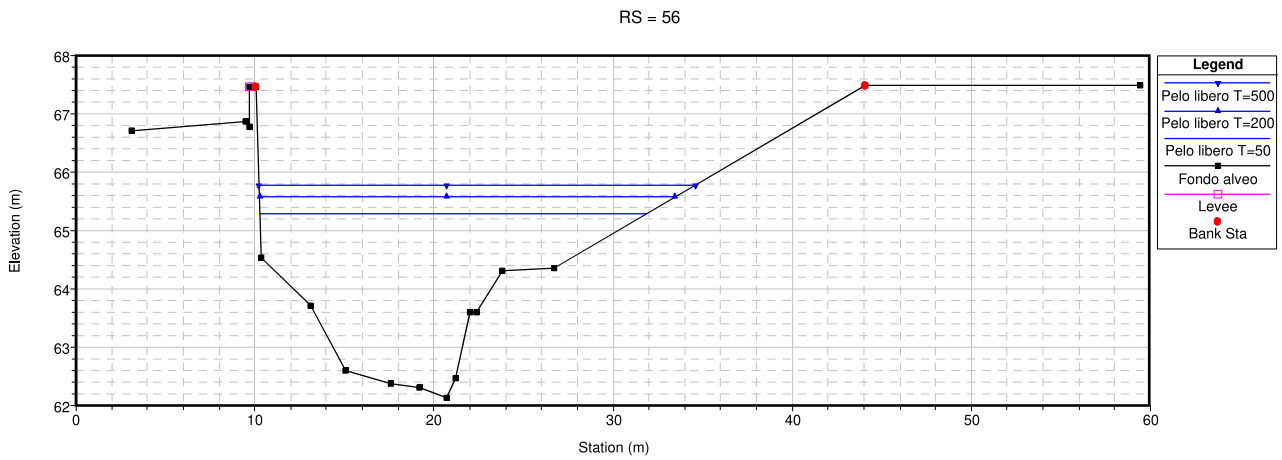
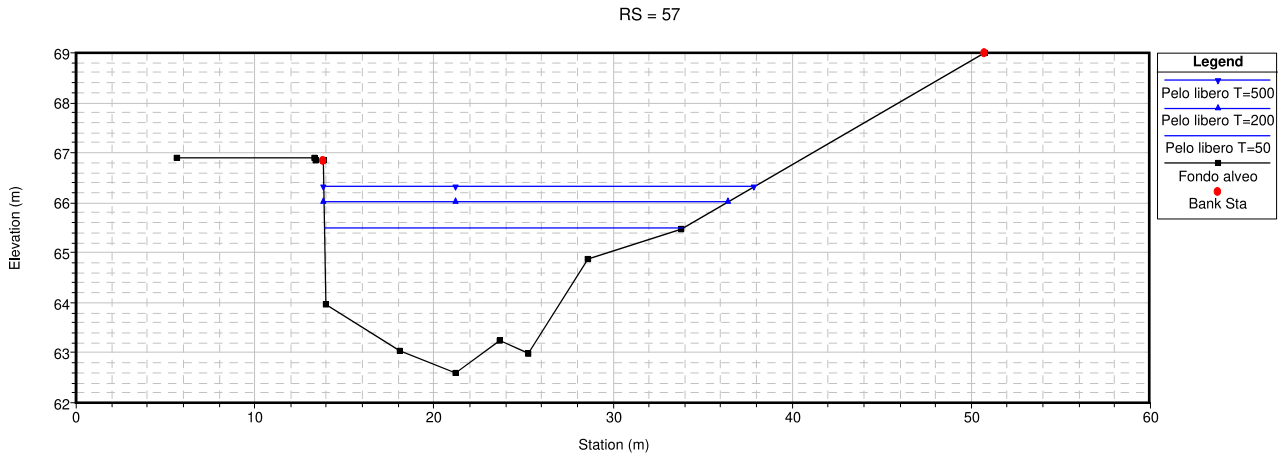
**PER LE PORTATE**

**T=50, 200, 500 ANNI**

### **RIOBASCO - Medio**

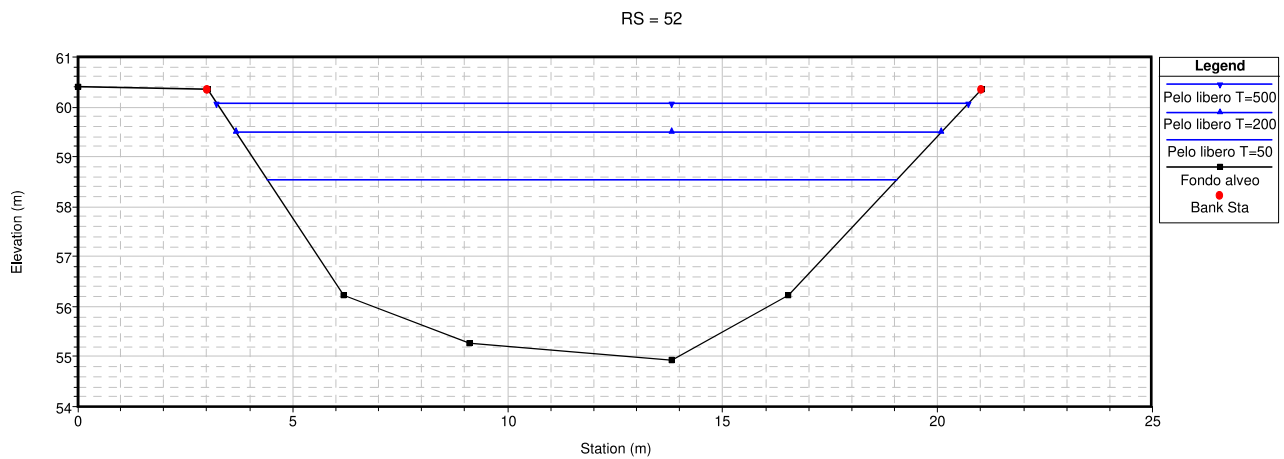
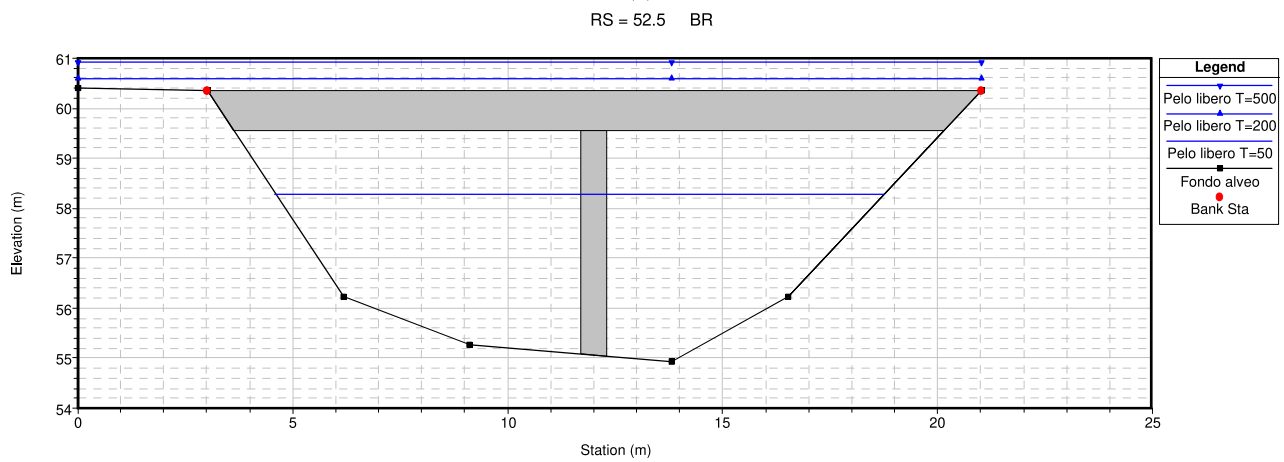
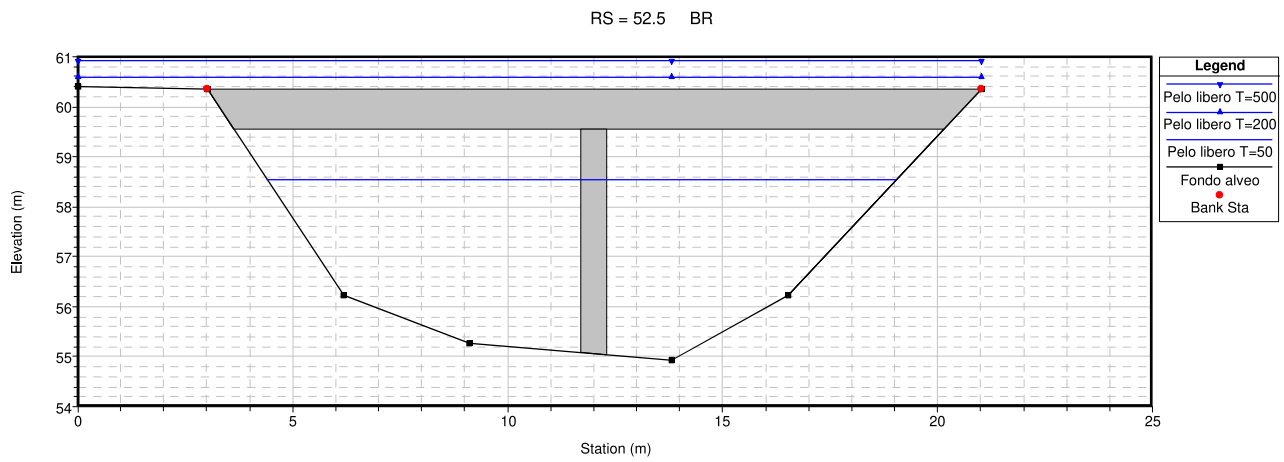
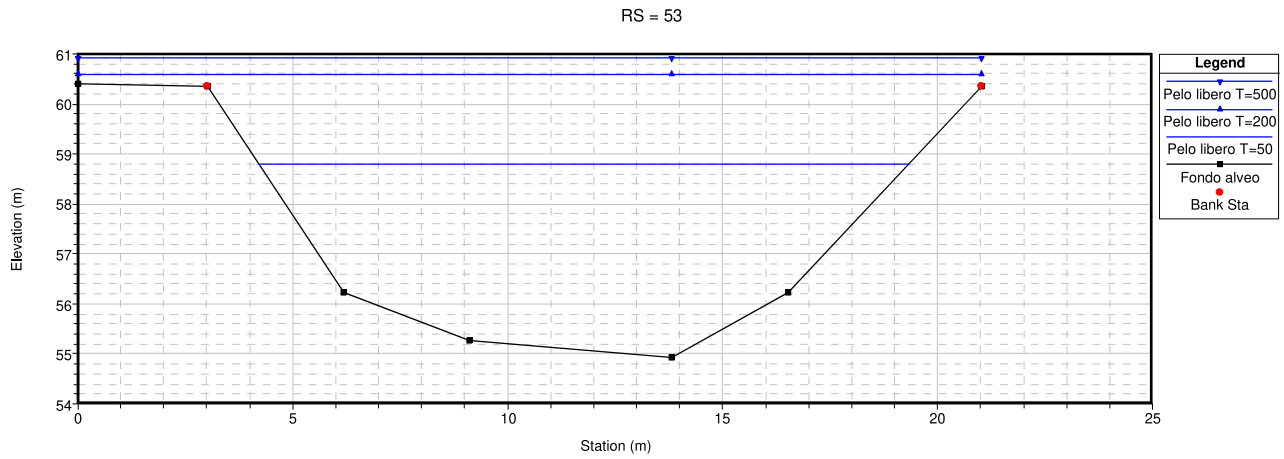
**Tratto dalla confluenza con il Rio Remenone  
alla confluenza col Rio delle Lunghe**

**Dalla sez. 12 alla sez. 57**

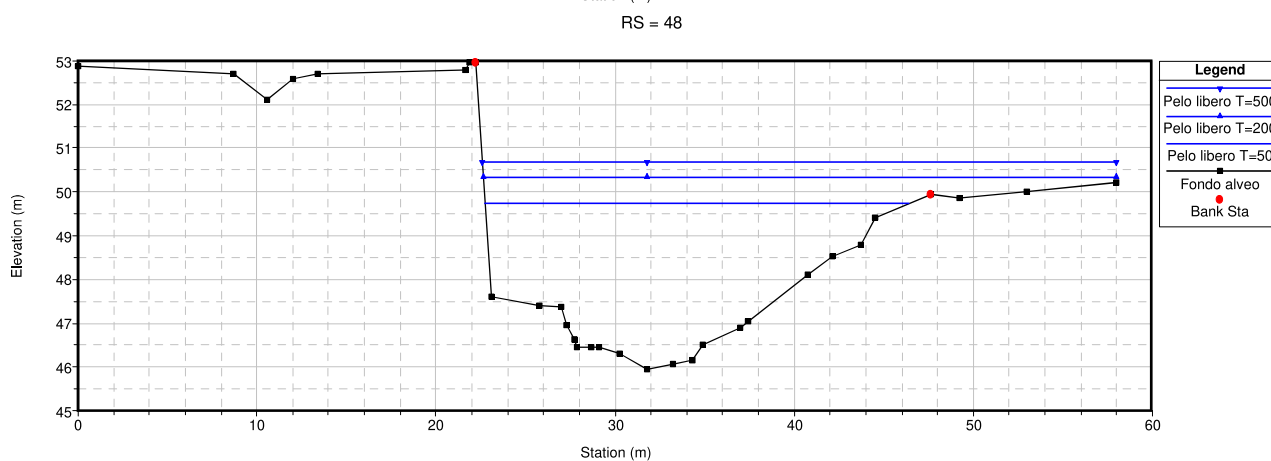
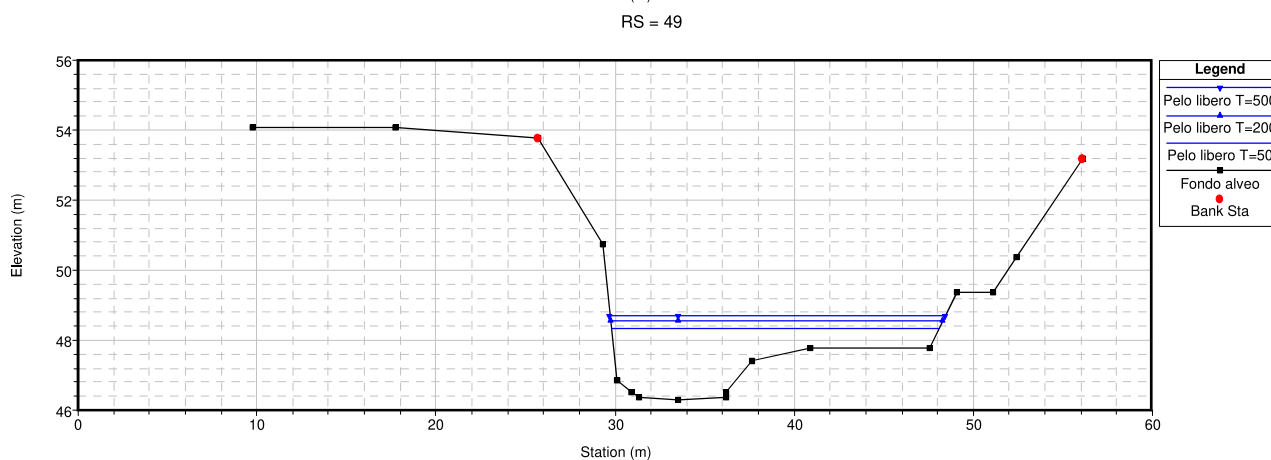
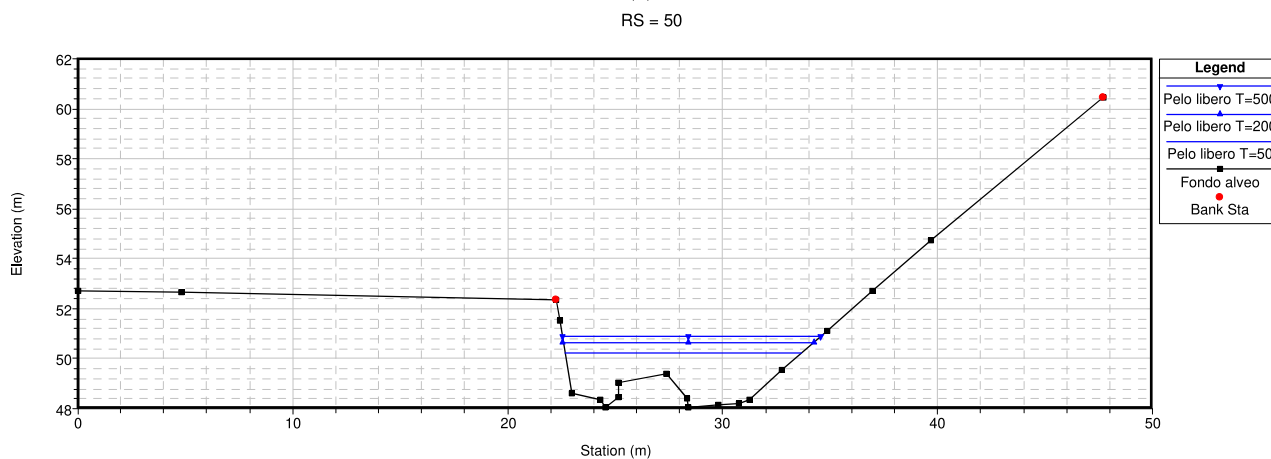
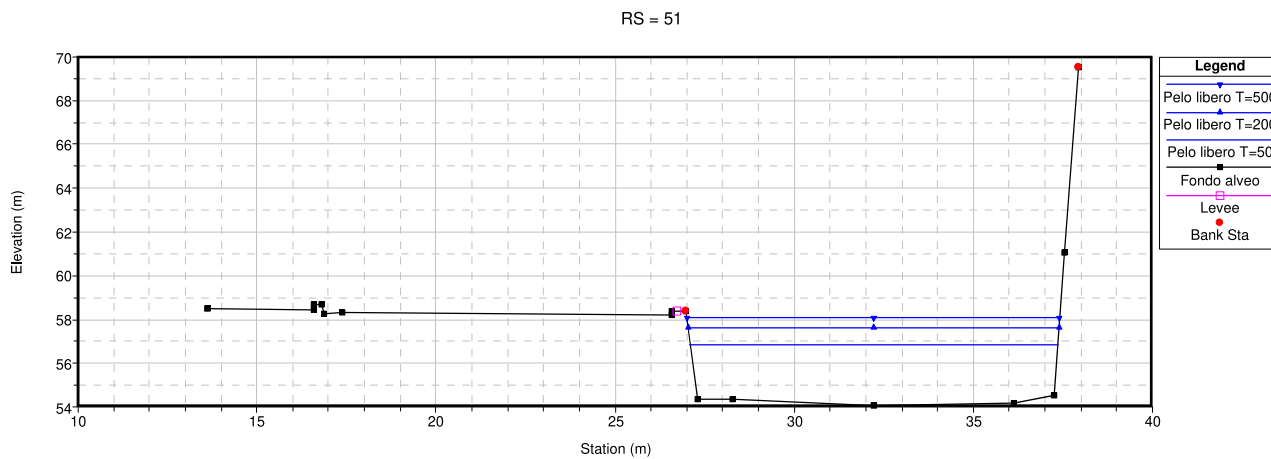


*RIO BASCO – tratto Medio  
(Tratto dalla confluenza con il Rio Remenone alla confluenza col Rio delle Lunghe)*

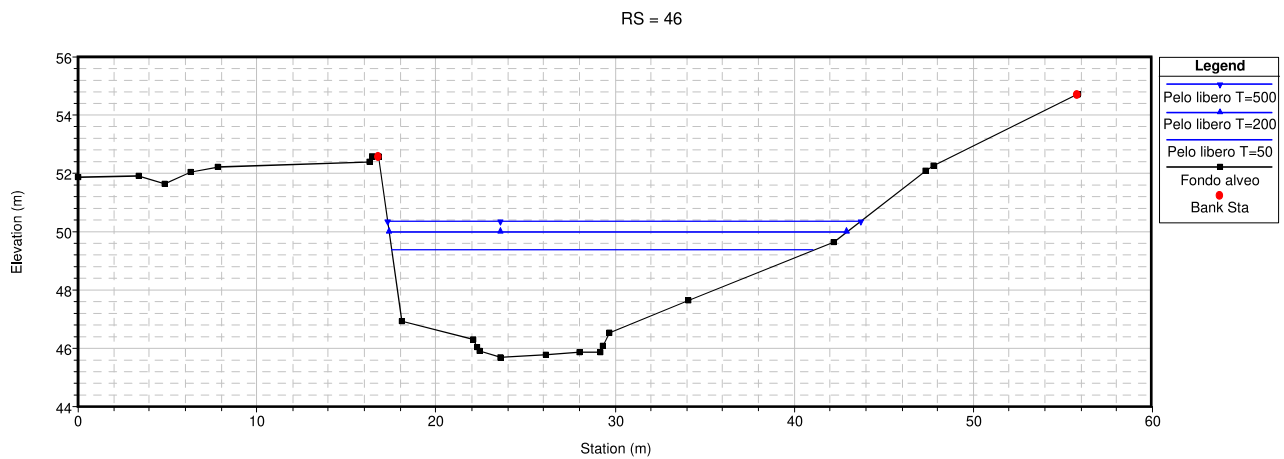
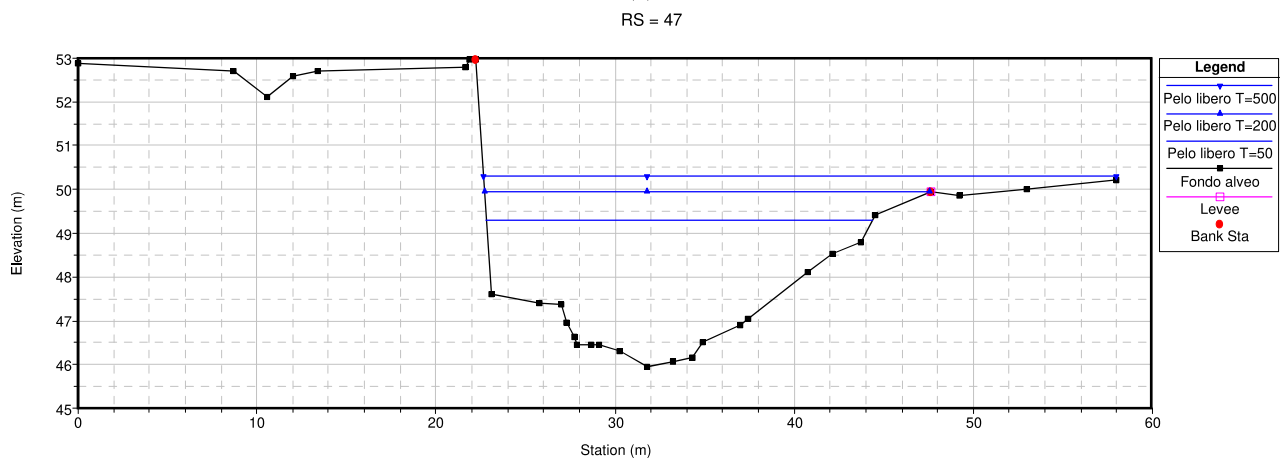
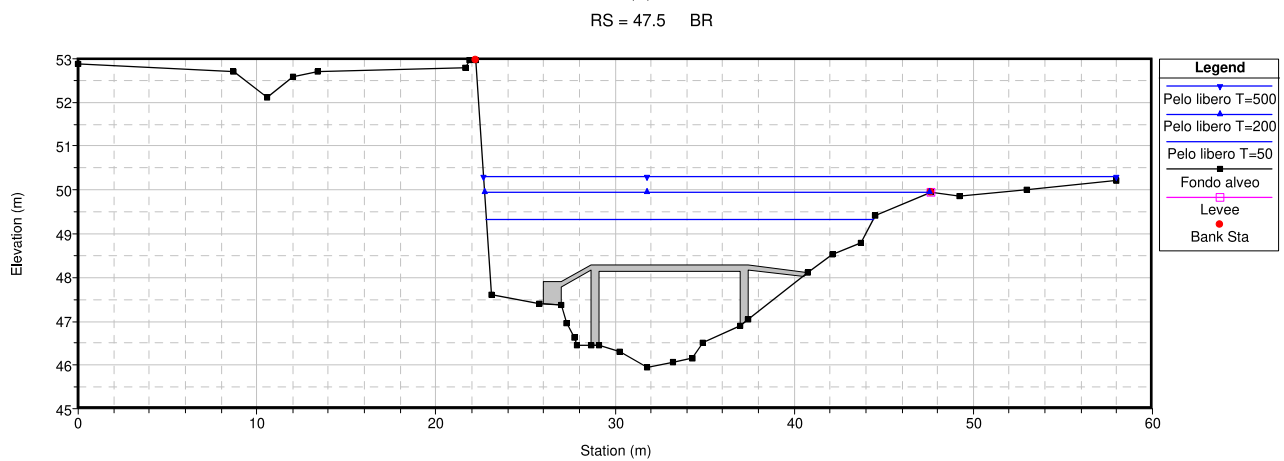
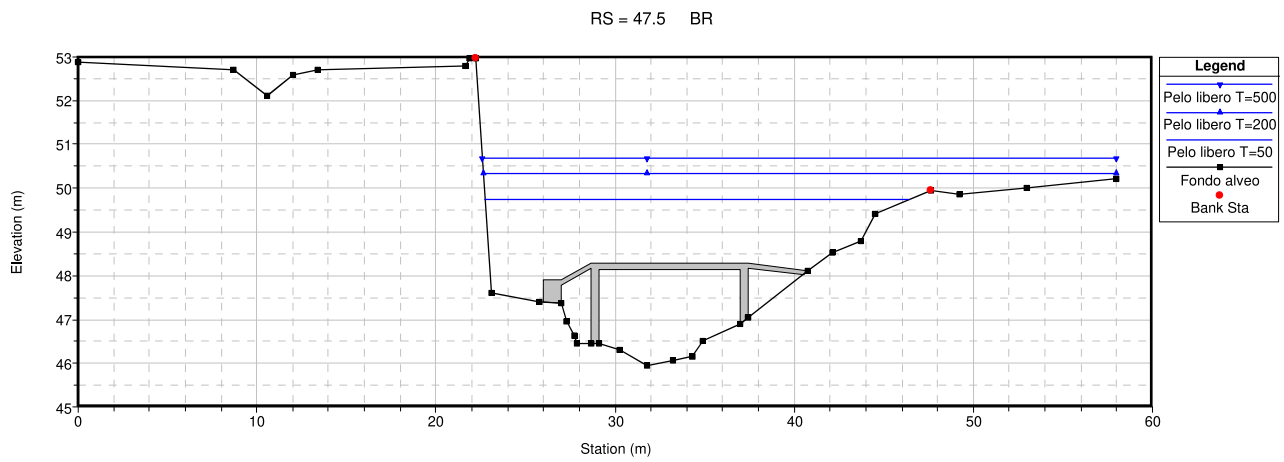




*RIO BASCO – tratto Medio  
(Tratto dalla confluenza con il Rio Remenone alla confluenza col Rio delle Lunghe)*

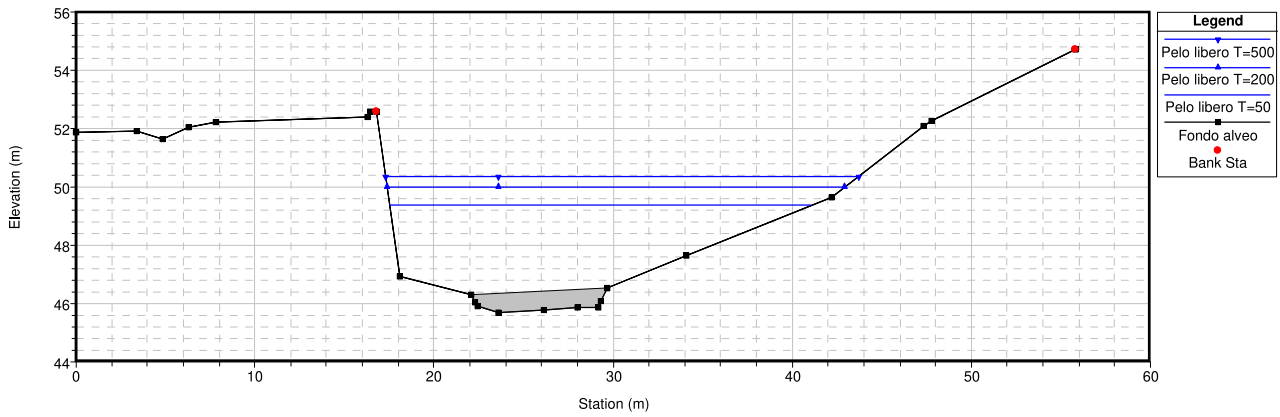


*RIO BASCO – tratto Medio  
(Tratto dalla confluenza con il Rio Remenone alla confluenza col Rio delle Lunghe)*

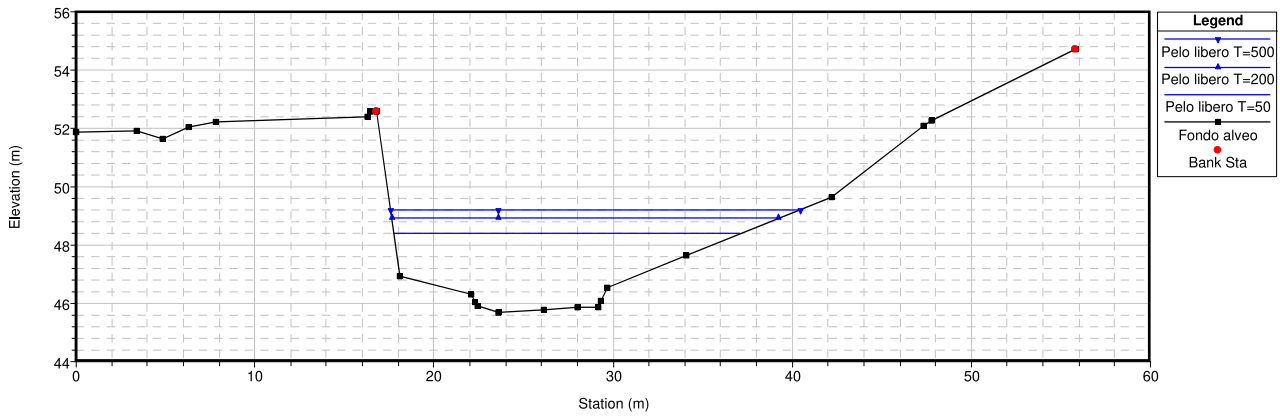


*RIO BASCO – tratto Medio  
(Tratto dalla confluenza con il Rio Remenone alla confluenza col Rio delle Lunghe)*

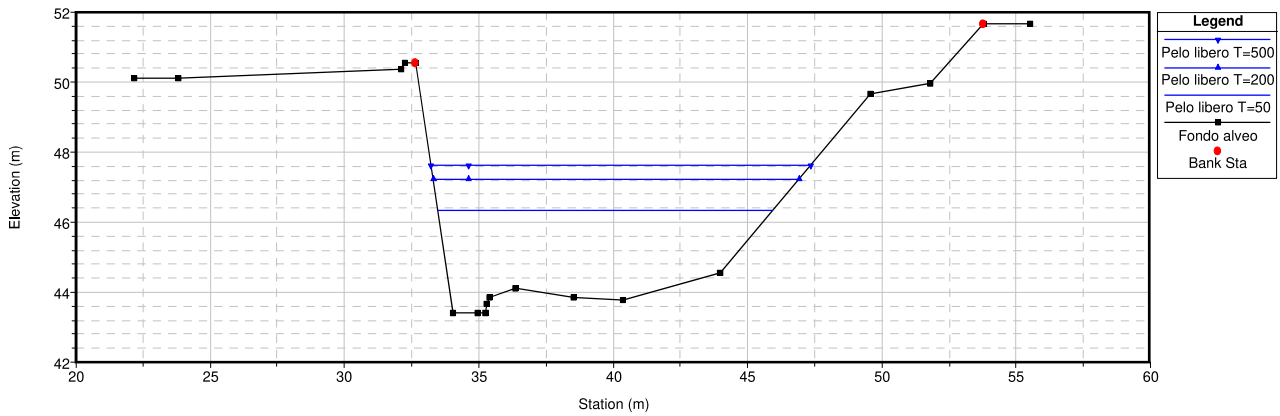
RS = 45.5 IS



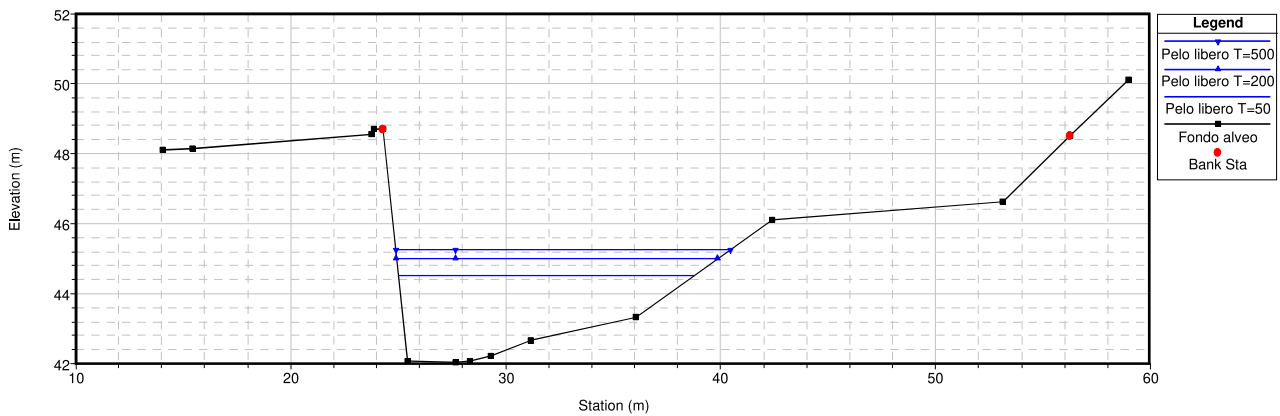
RS = 45



RS = 44

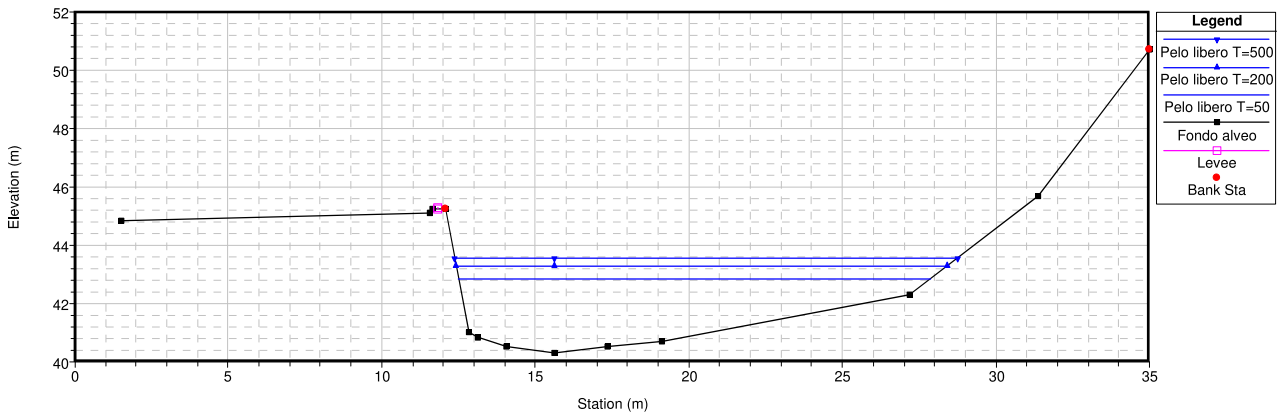


RS = 43

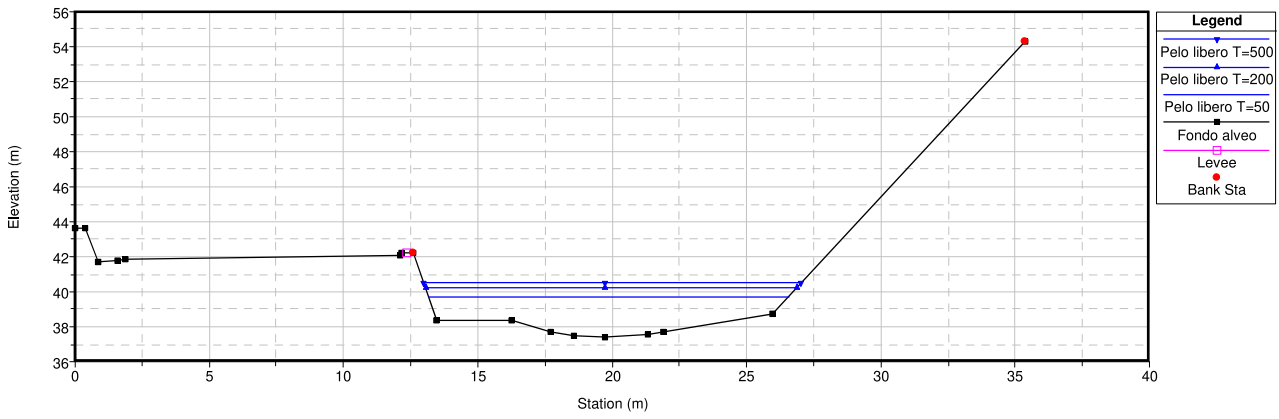


*RIO BASCO – tratto Medio  
(Tratto dalla confluenza con il Rio Remenone alla confluenza col Rio delle Lunghe)*

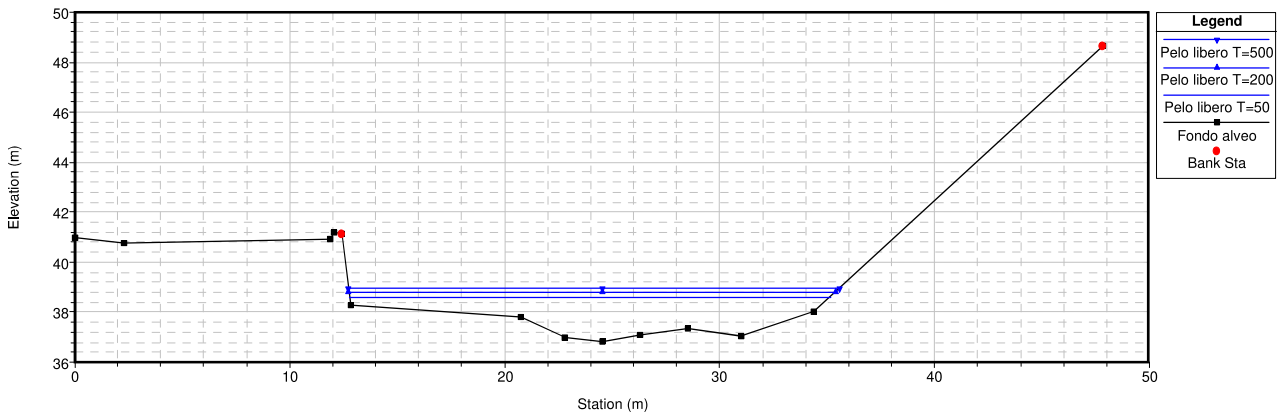
RS = 42



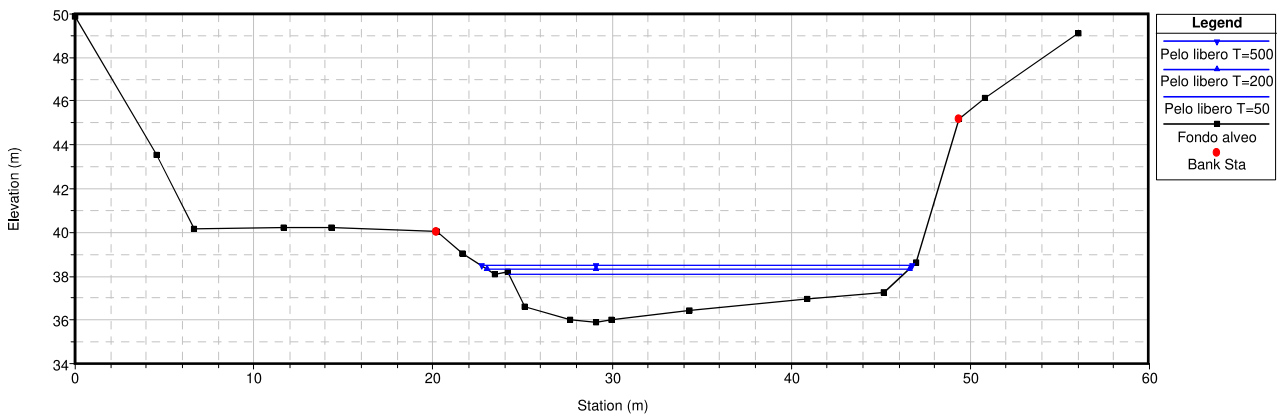
RS = 41



RS = 40

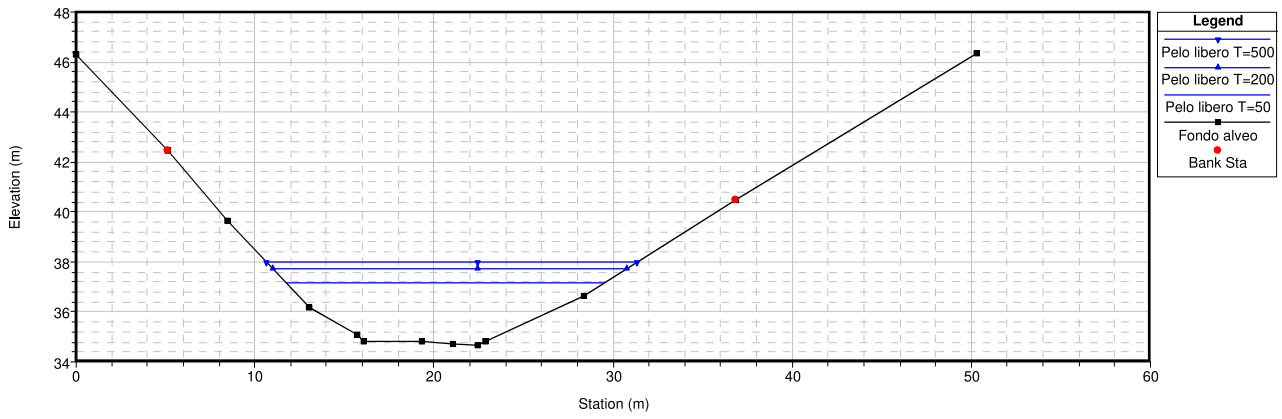


RS = 39

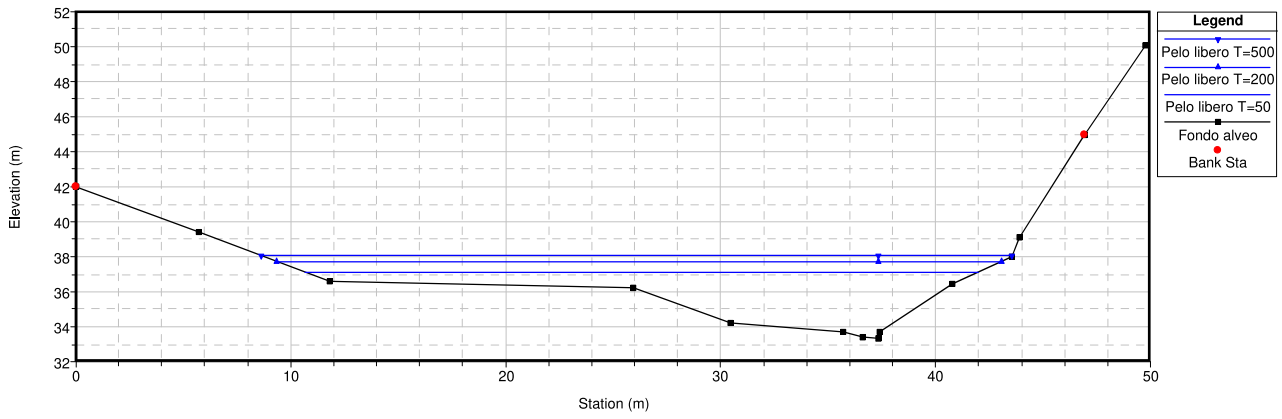


*RIO BASCO – tratto Medio  
(Tratto dalla confluenza con il Rio Remenone alla confluenza col Rio delle Lunghe)*

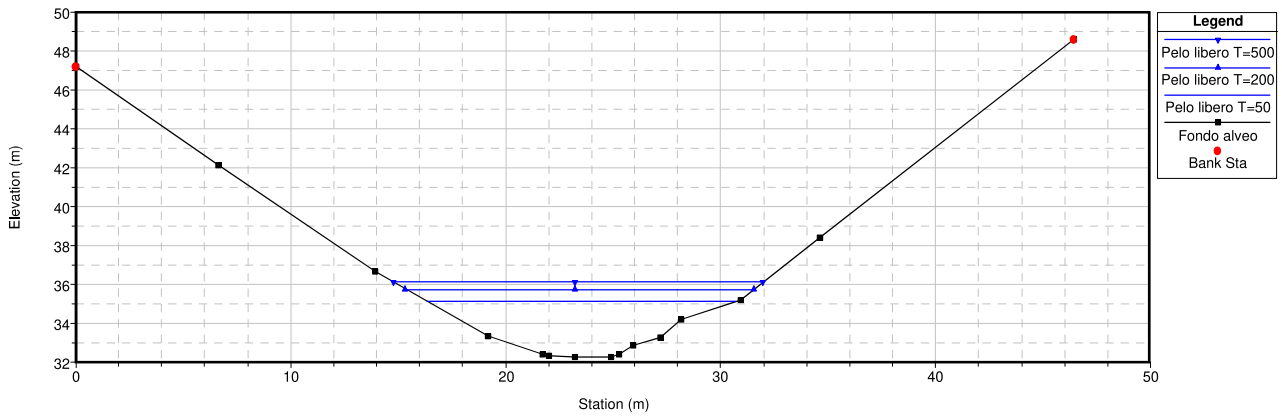
RS = 38



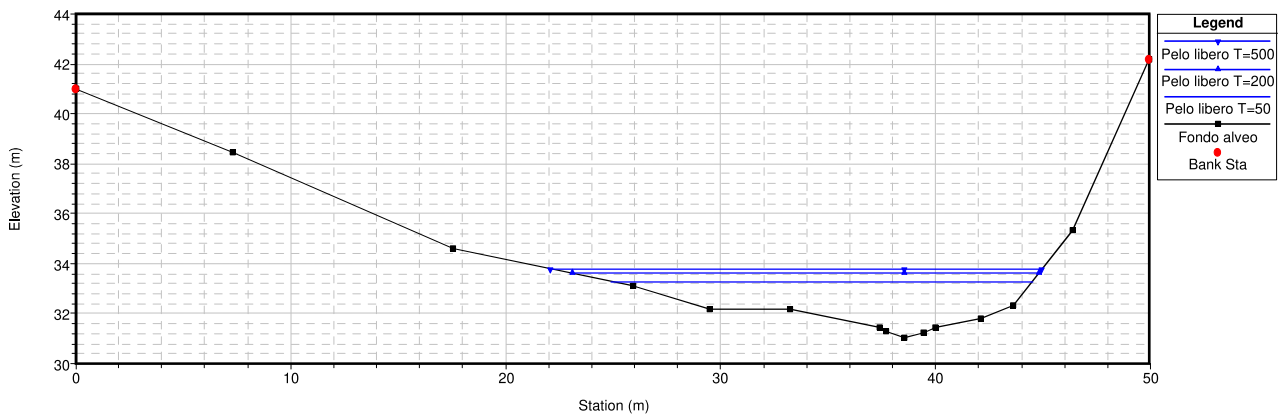
RS = 37



RS = 36

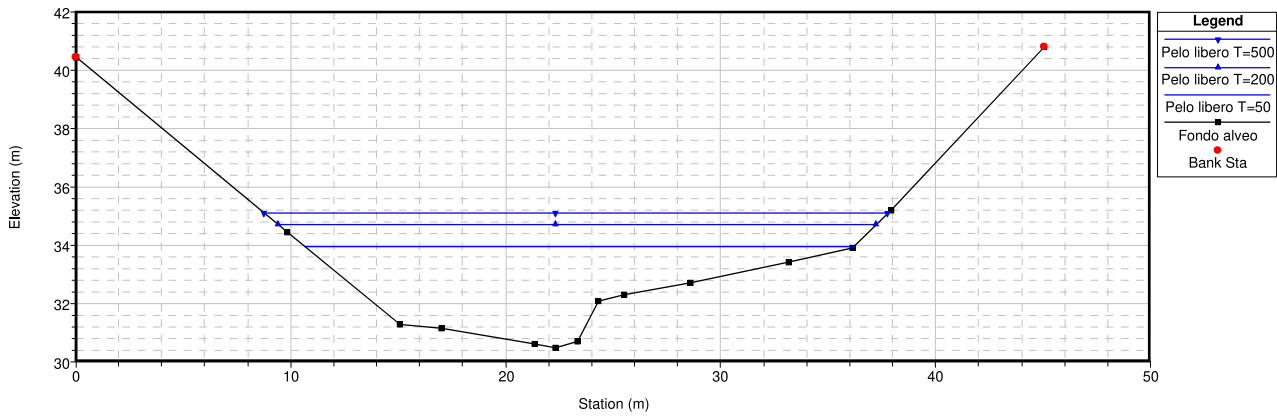


RS = 35

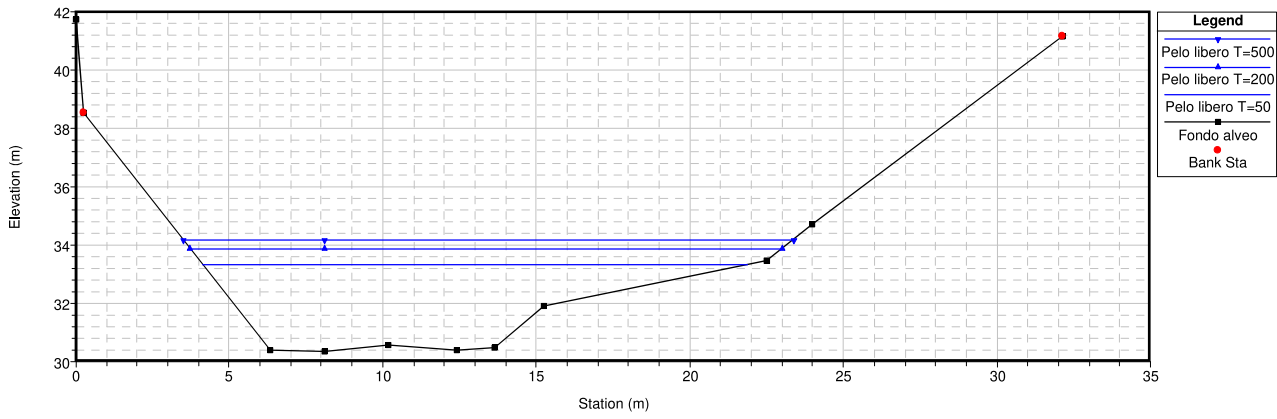


*RIO BASCO – tratto Medio  
(Tratto dalla confluenza con il Rio Remenone alla confluenza col Rio delle Lunghe)*

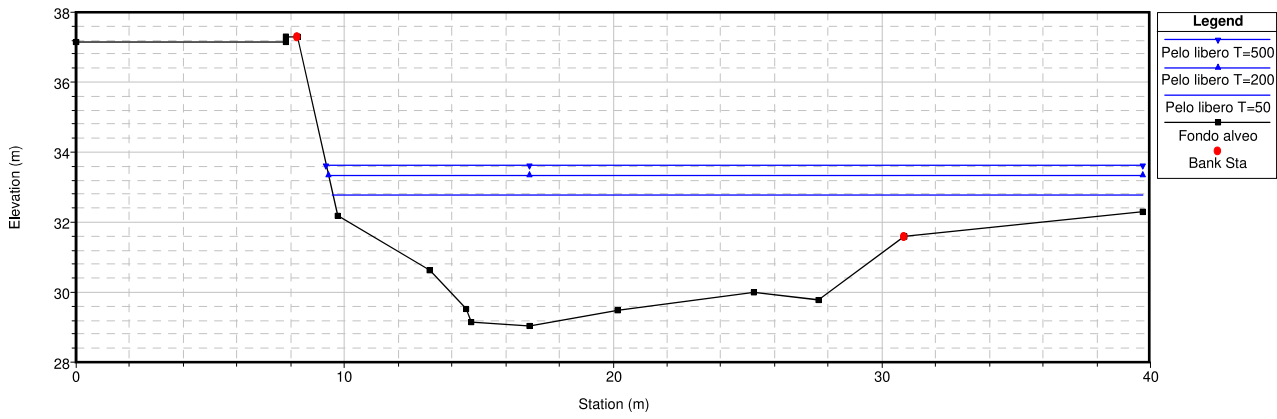
RS = 34



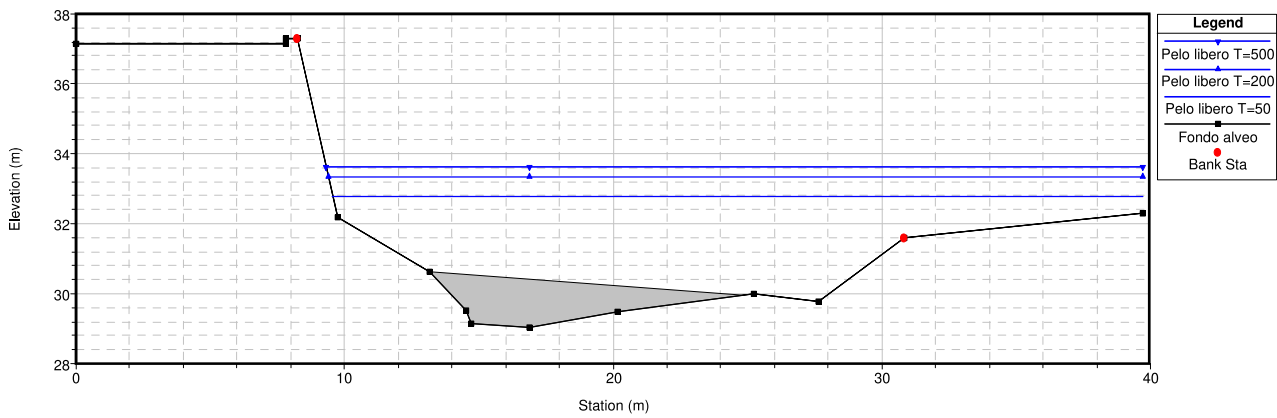
RS = 33



RS = 32

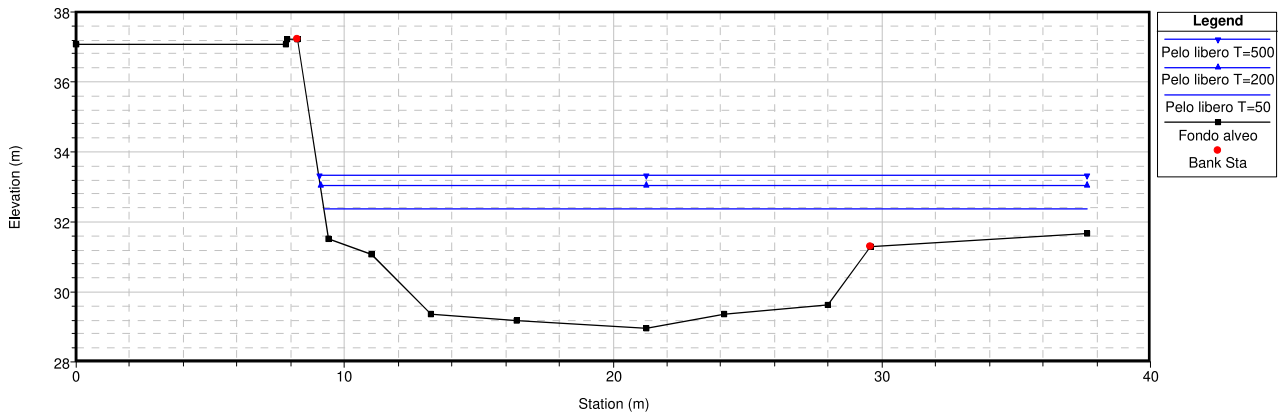


RS = 31.5 IS

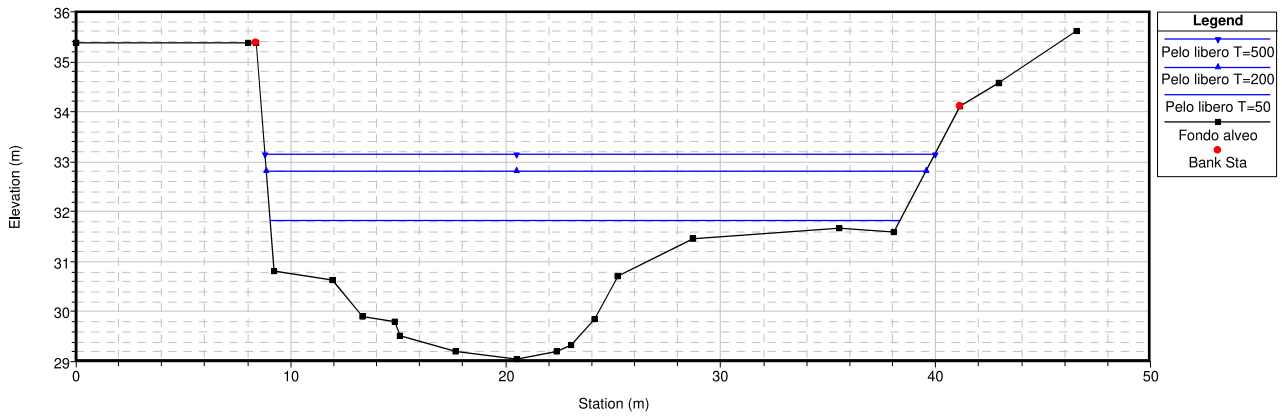


*RIO BASCO – tratto Medio  
(Tratto dalla confluenza con il Rio Remenone alla confluenza col Rio delle Lunghe)*

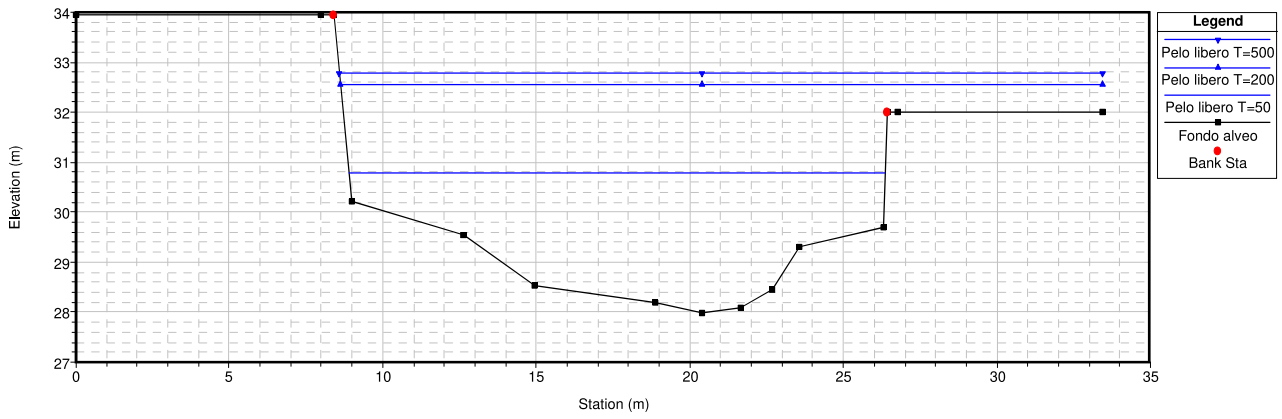
RS = 31



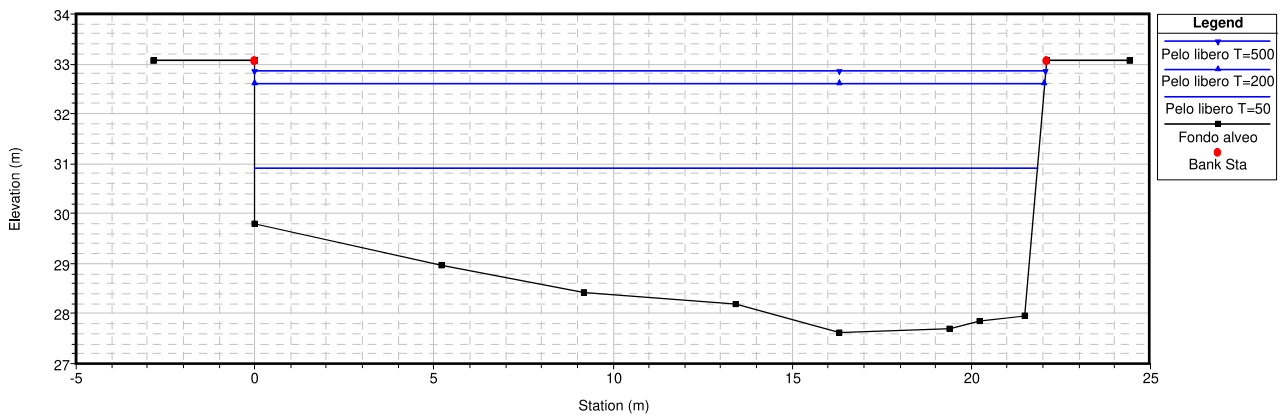
RS = 30



RS = 29



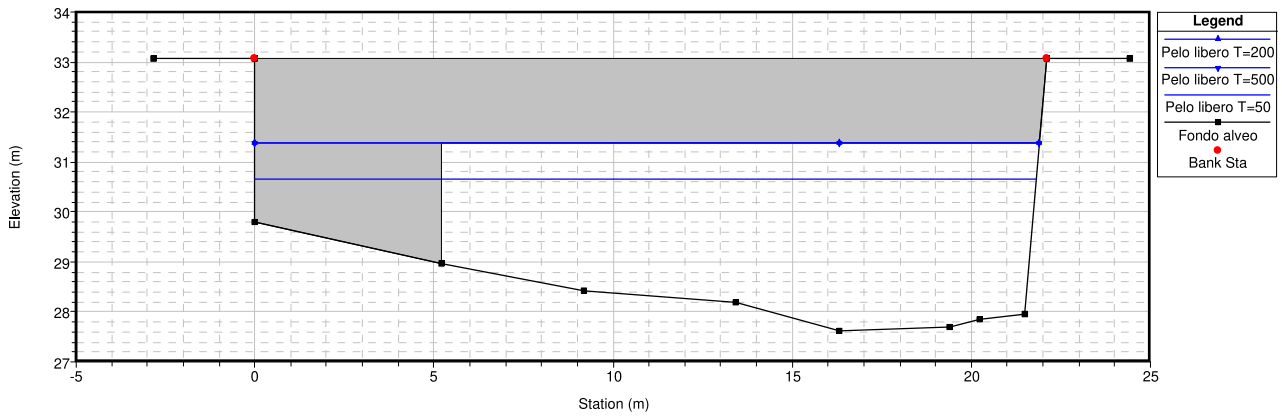
RS = 28



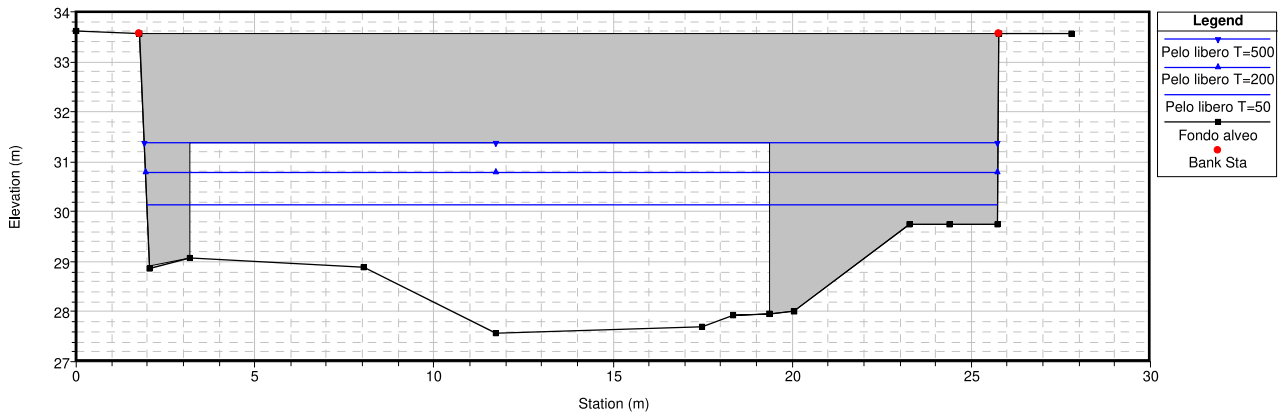
*RIO BASCO – tratto Medio  
(Tratto dalla confluenza con il Rio Remenone alla confluenza col Rio delle Lunghe)*



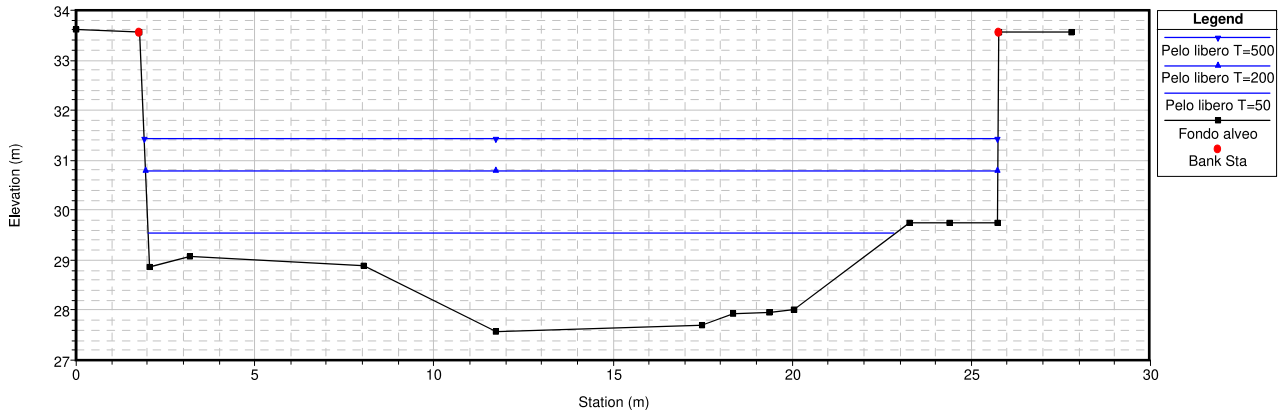
RS = 27.5 BR



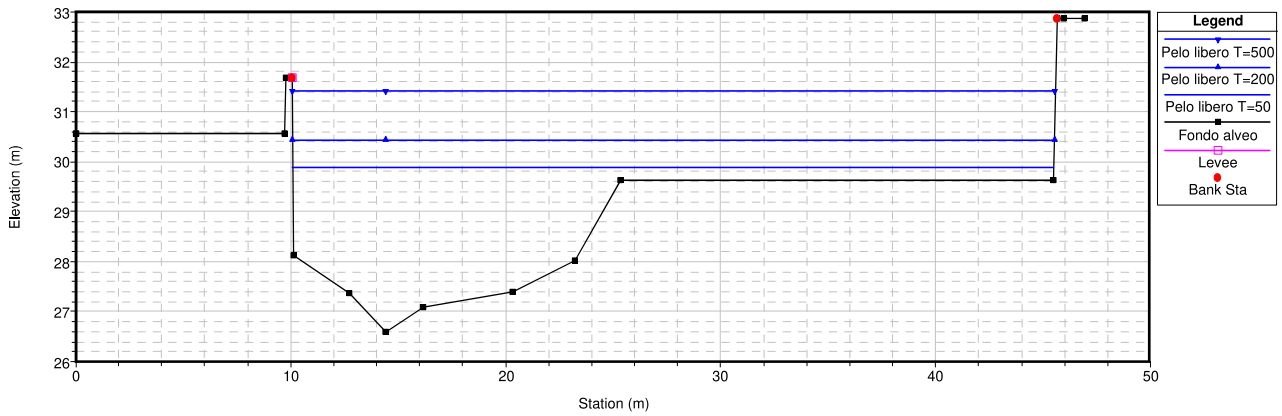
RS = 27.5 BR



RS = 27

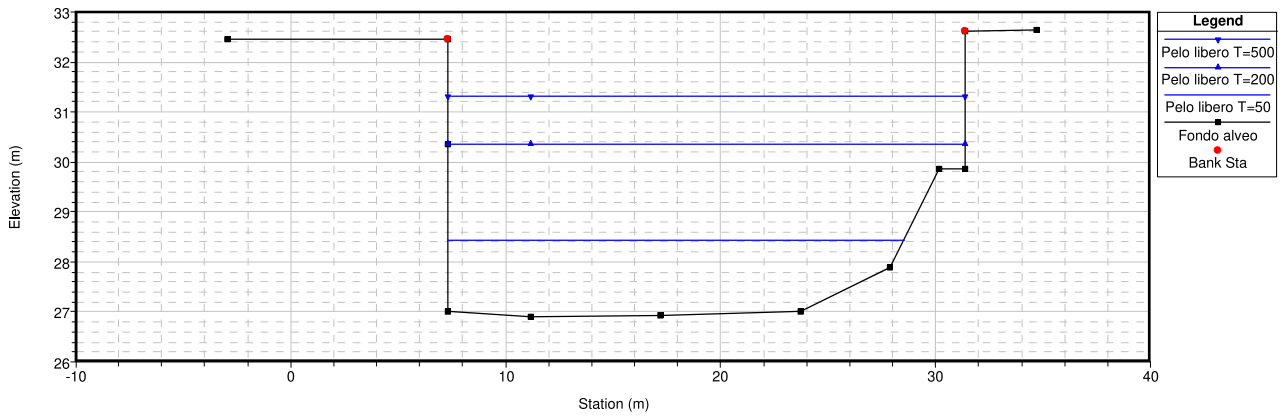


RS = 26

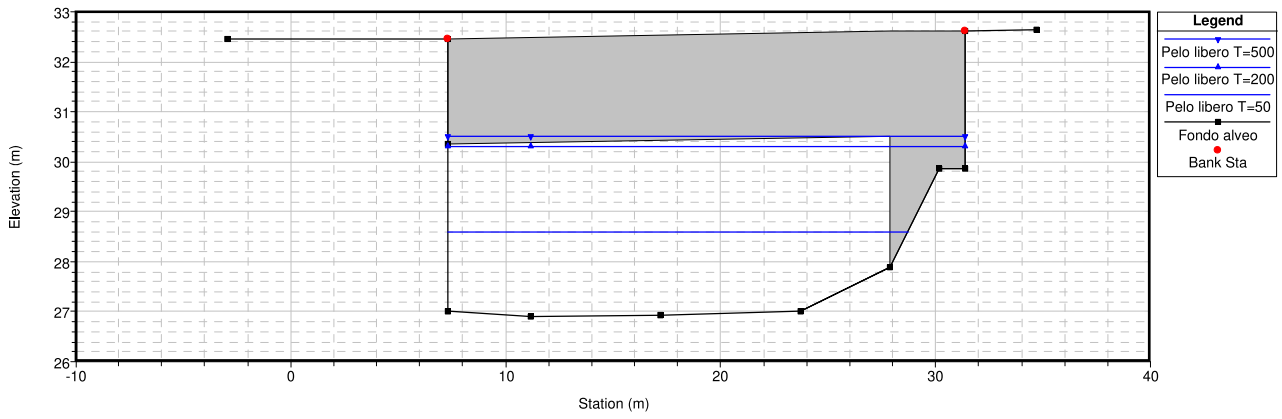


*RIO BASCO – tratto Medio  
(Tratto dalla confluenza con il Rio Remenone alla confluenza col Rio delle Lunghe)*

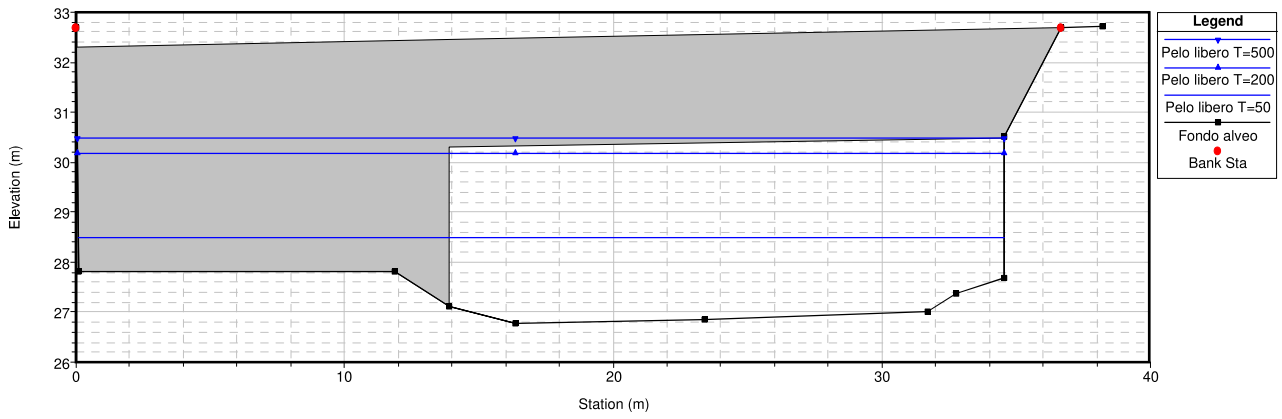
RS = 25



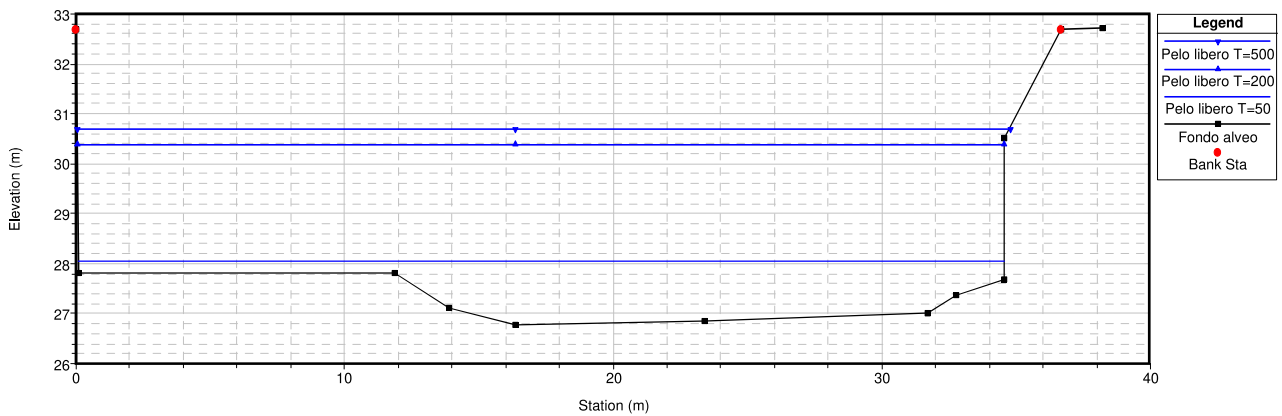
RS = 24.5 BR



RS = 24.5 BR

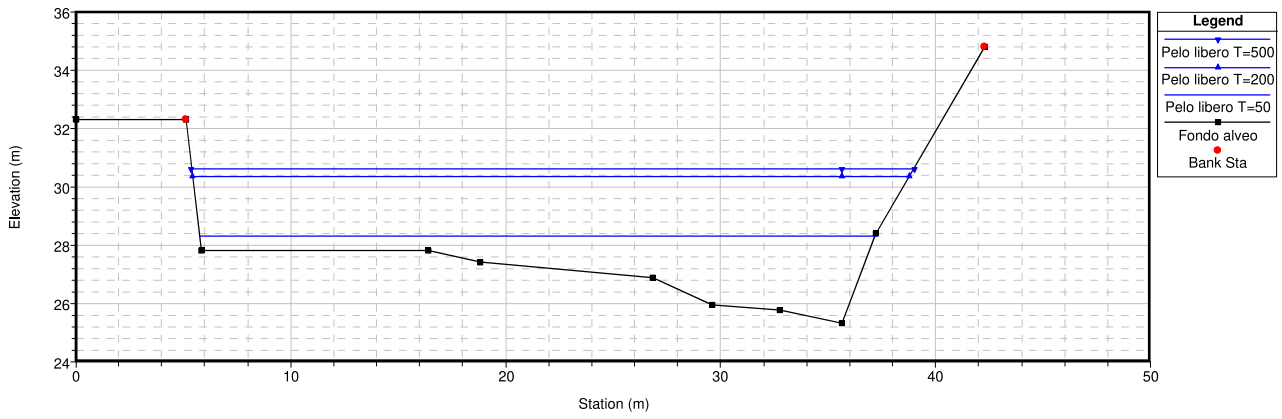


RS = 24

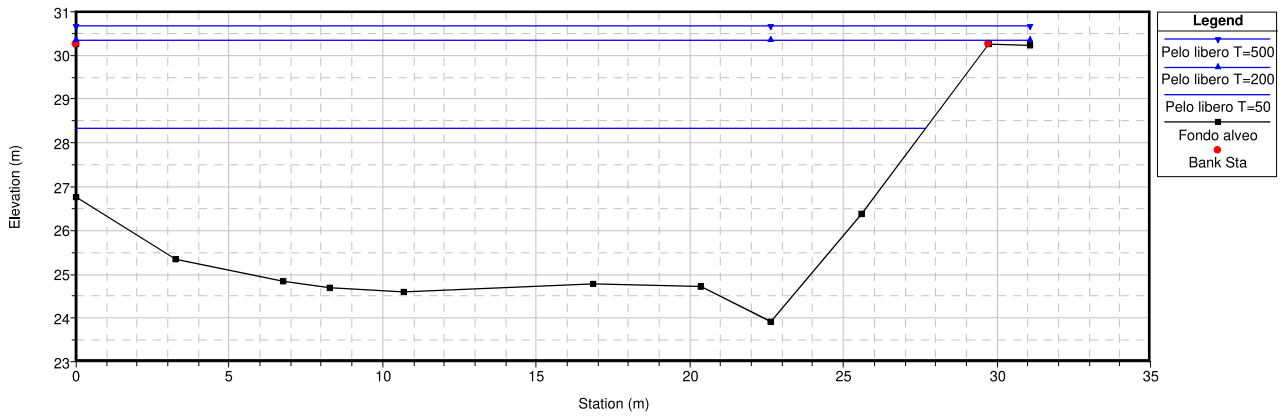


*RIO BASCO – tratto Medio  
(Tratto dalla confluenza con il Rio Remenone alla confluenza col Rio delle Lunghe)*

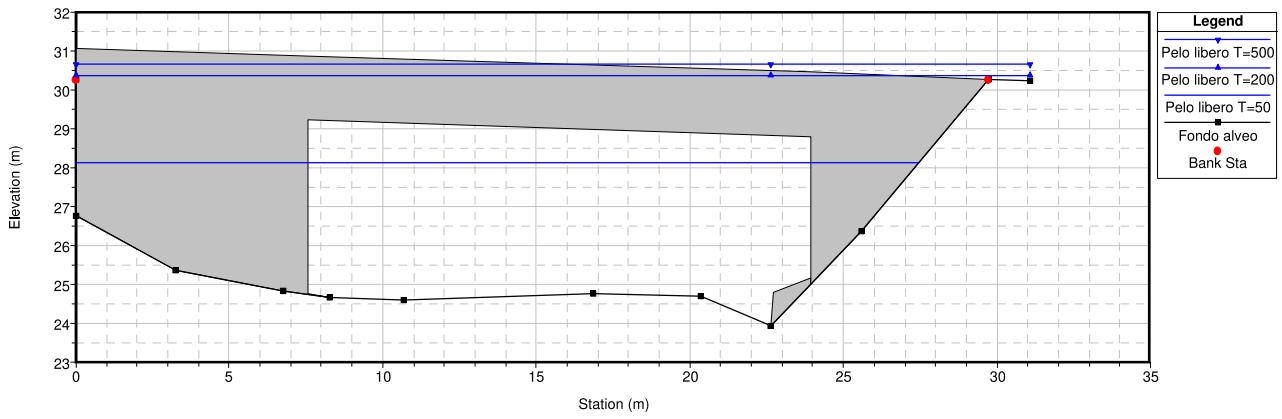
RS = 23



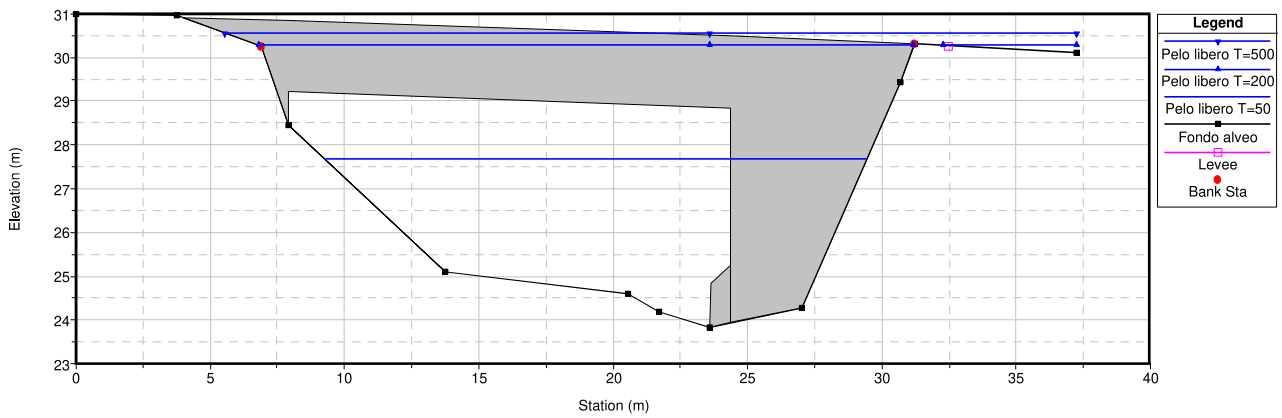
RS = 22



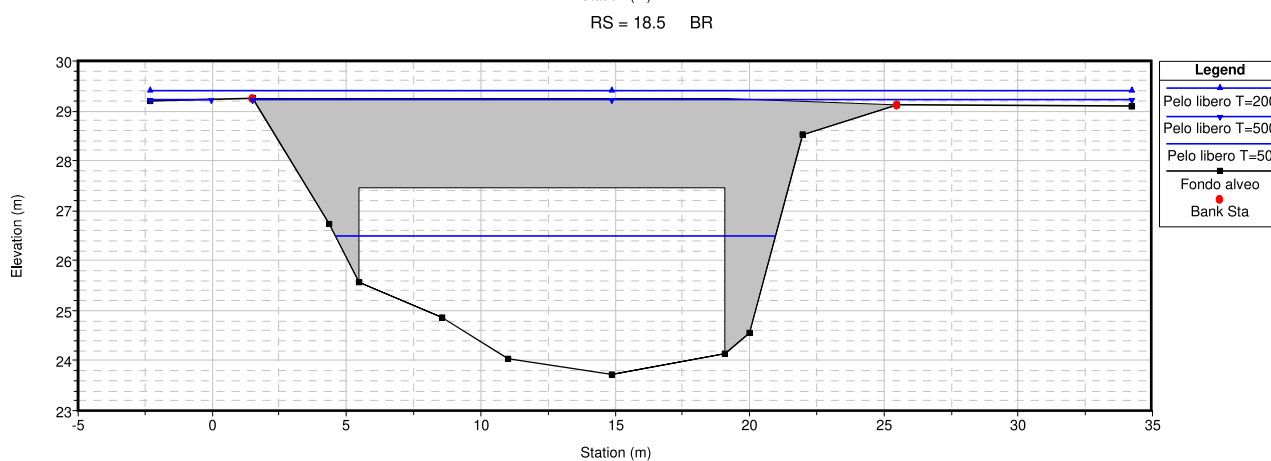
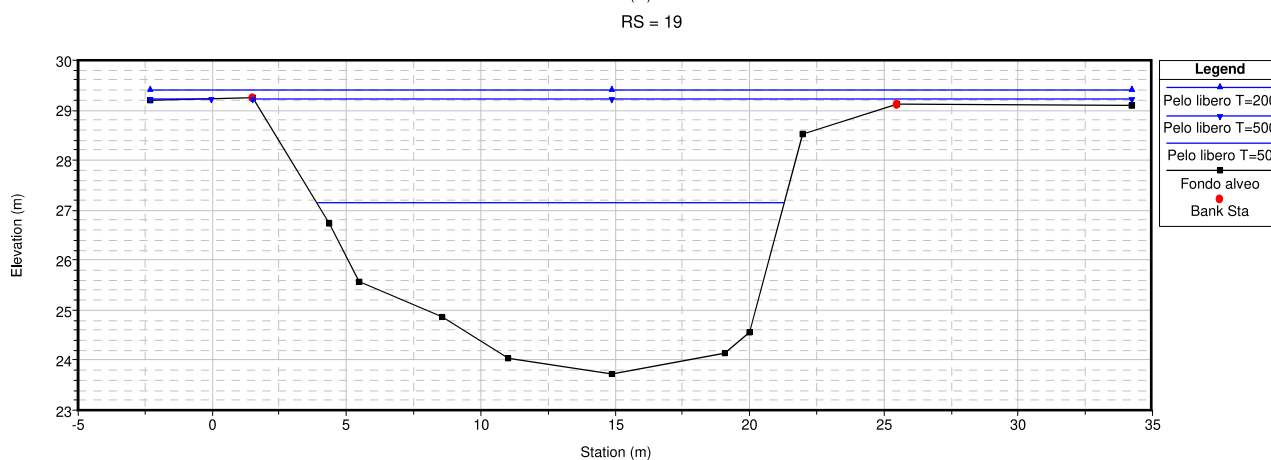
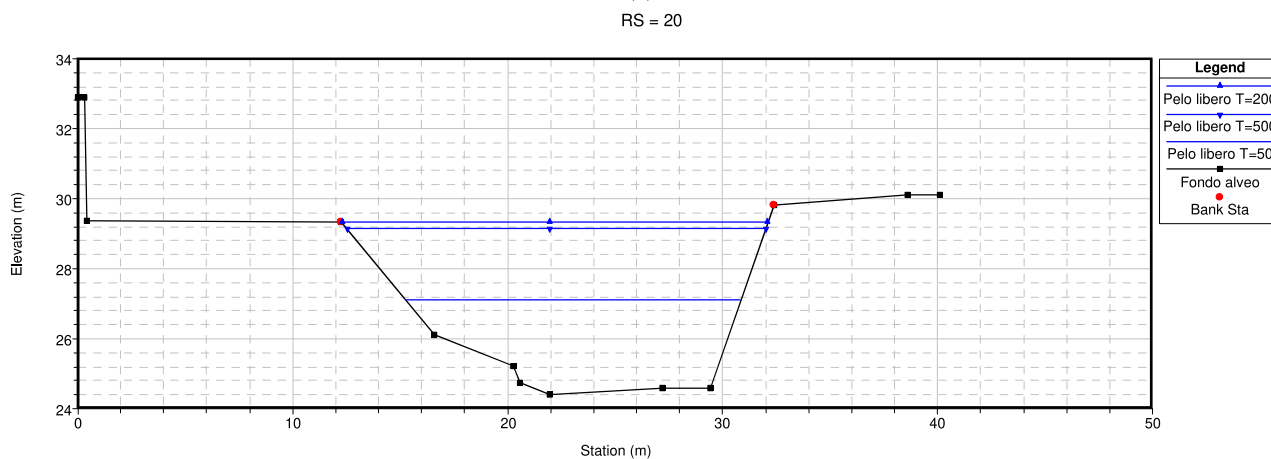
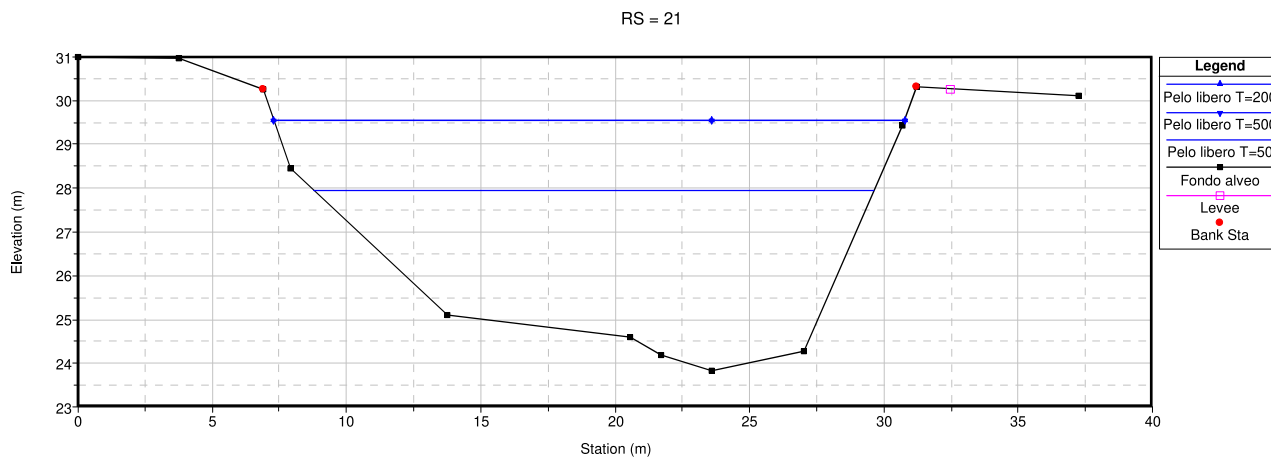
RS = 21.5 BR



RS = 21.5 BR

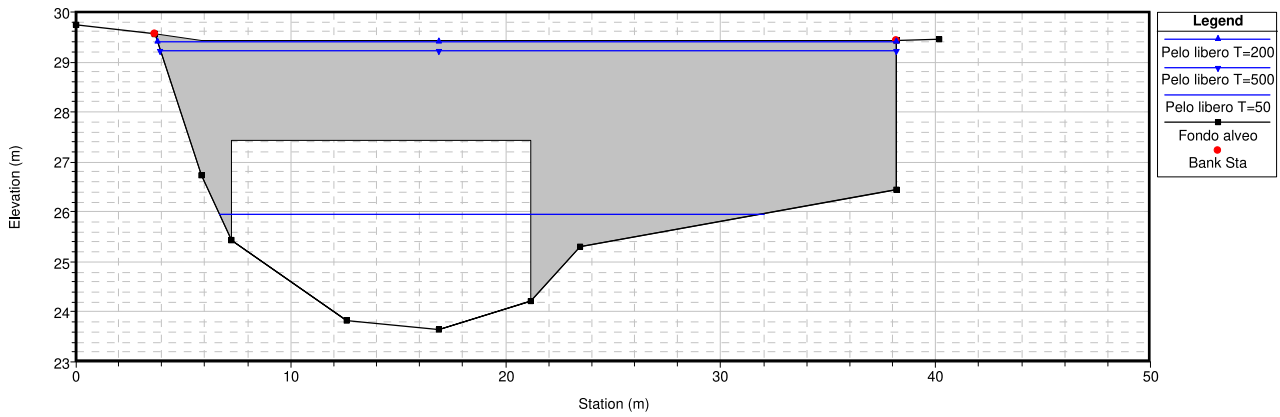


*RIO BASCO – tratto Medio  
(Tratto dalla confluenza con il Rio Remenone alla confluenza col Rio delle Lunghe)*

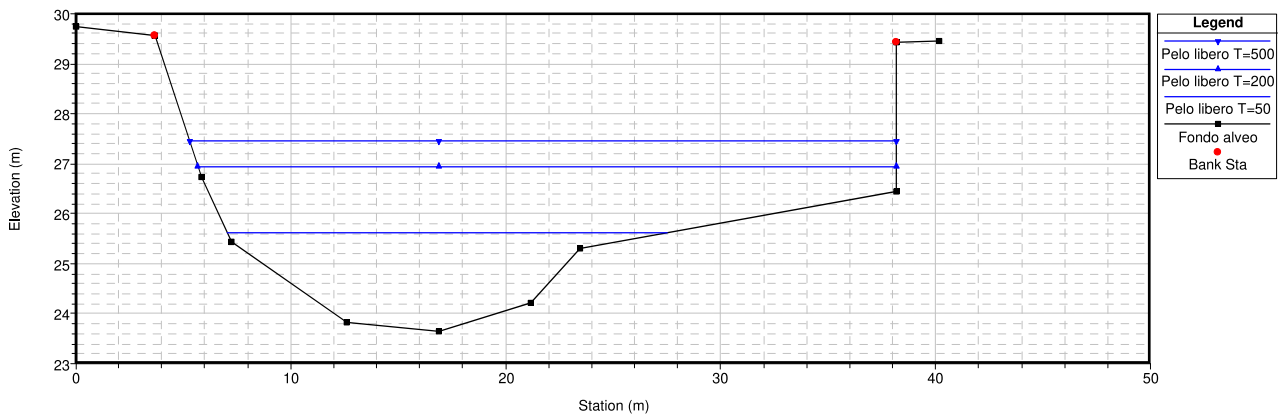


*RIO BASCO – tratto Medio  
(Tratto dalla confluenza con il Rio Remenone alla confluenza col Rio delle Lunghe)*

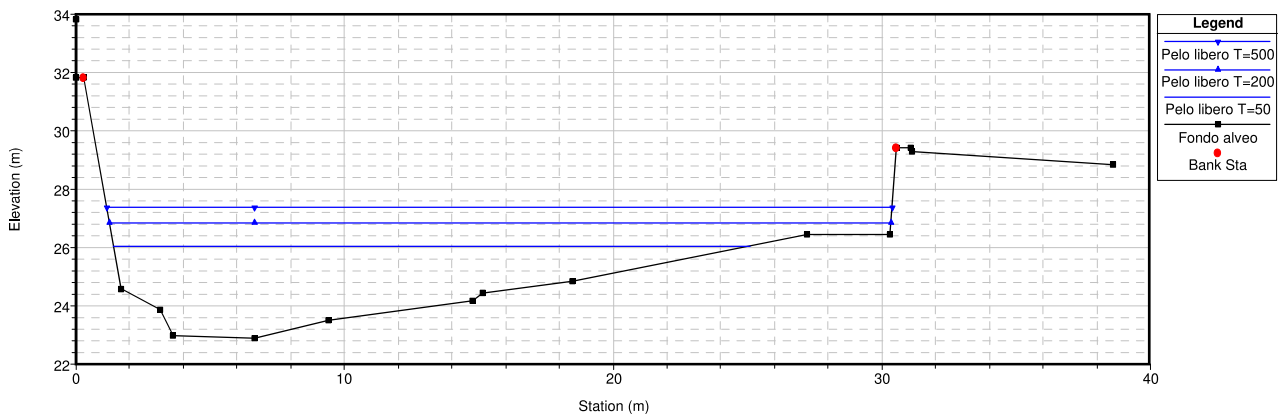
RS = 18.5 BR



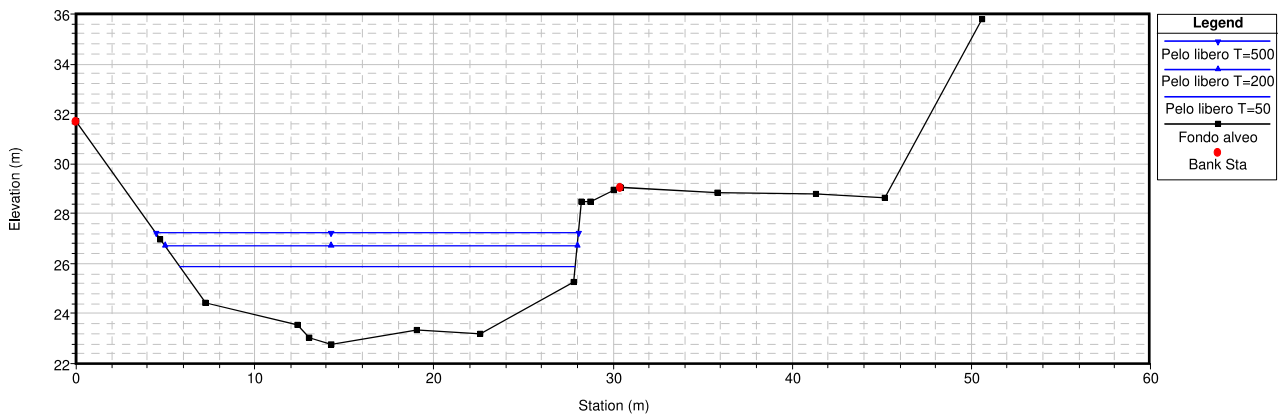
RS = 18



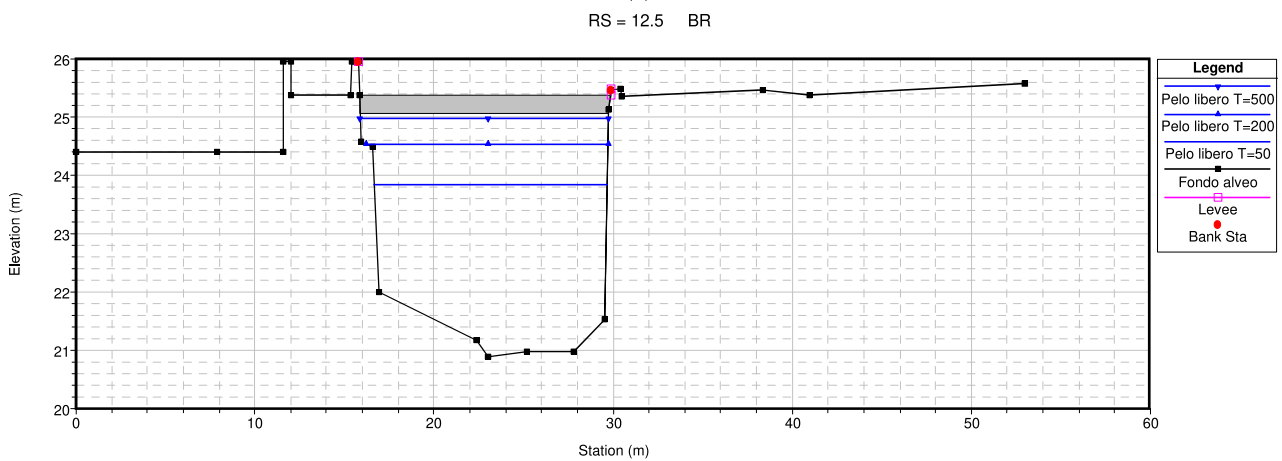
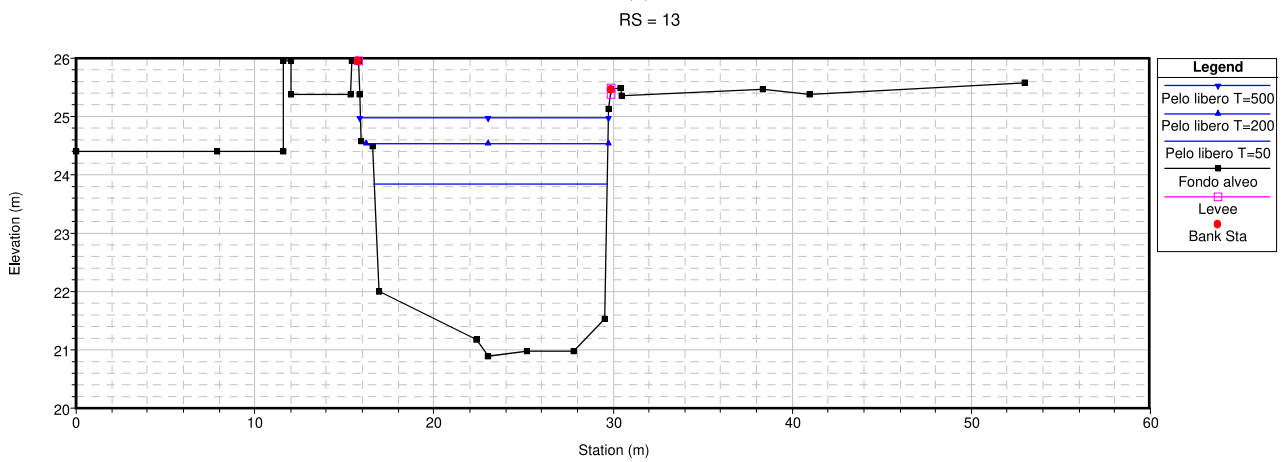
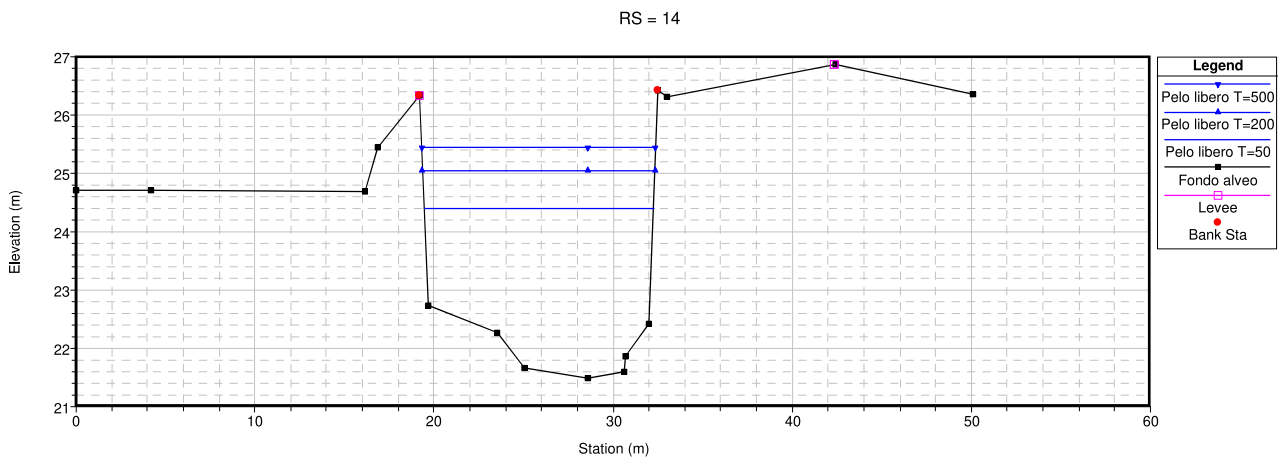
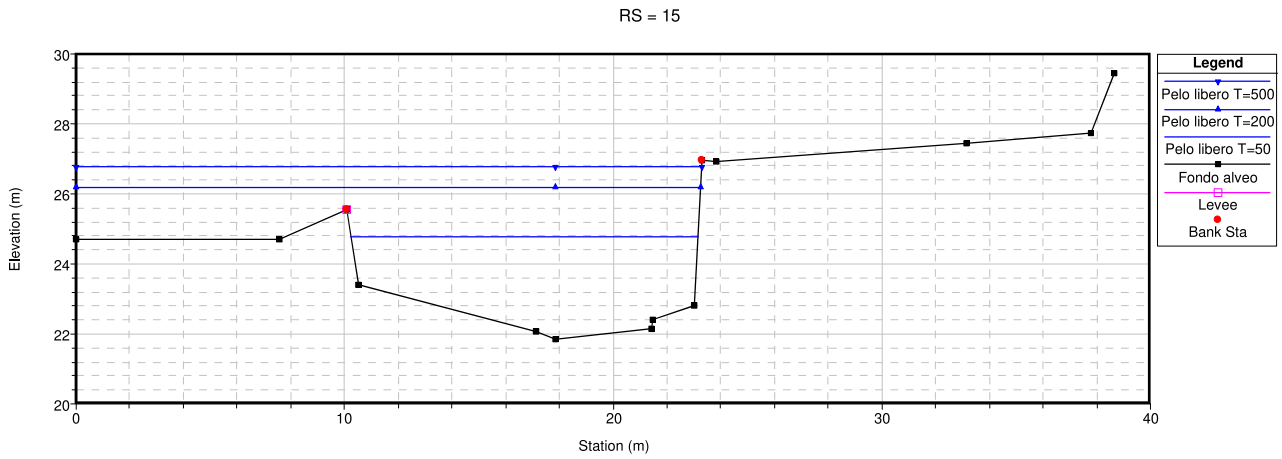
RS = 17



RS = 16

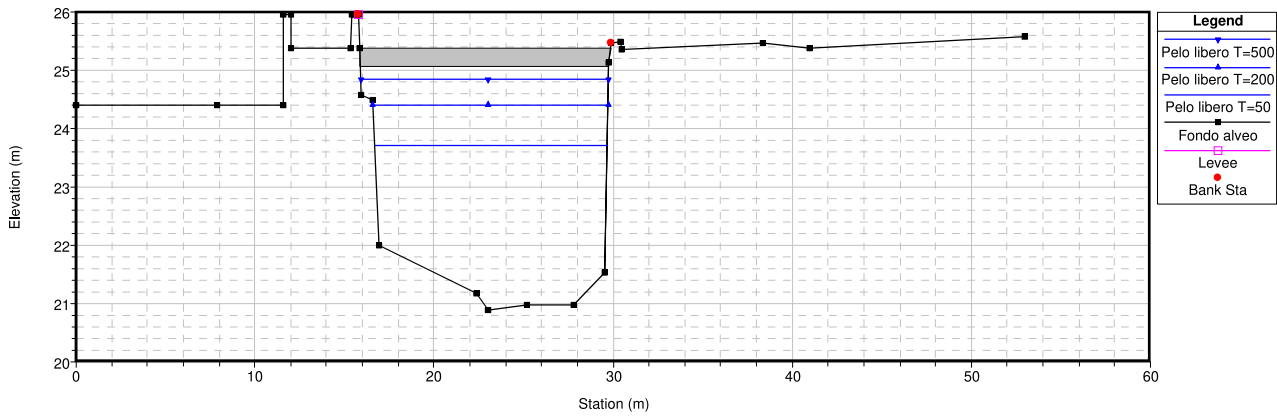


*RIO BASCO – tratto Medio  
(Tratto dalla confluenza con il Rio Remenone alla confluenza col Rio delle Lunghe)*

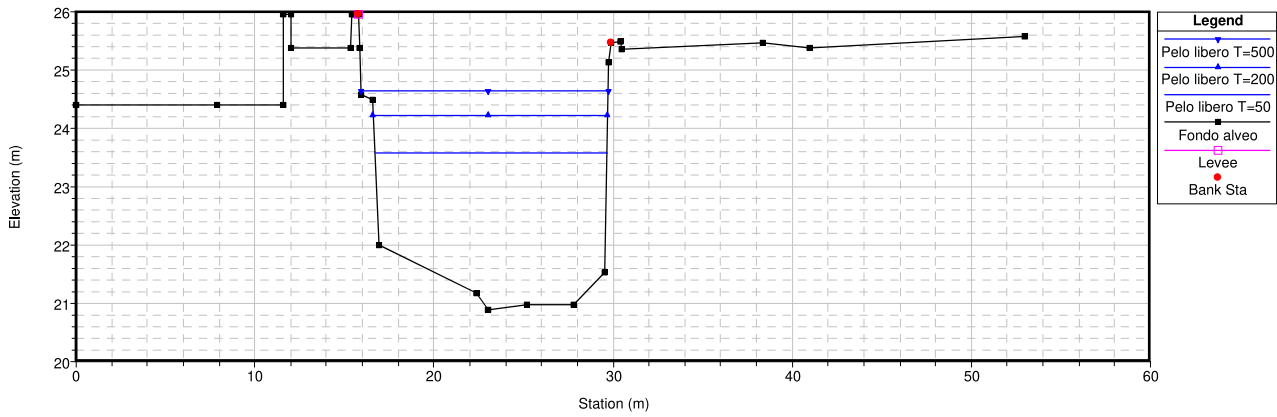


*RIO BASCO – tratto Medio  
(Tratto dalla confluenza con il Rio Remenone alla confluenza col Rio delle Lunghe)*

RS = 12.5 BR



RS = 12



**TABELLE DELLE GRANDEZZE**

**IDRAULICHE SIGNIFICATIVE**

PER LE PORTATE

T=50, 200, 500 ANNI

**RIOBASCO - Medio**

**Tratto dalla confluenza con il Rio Remenone  
alla confluenza col Rio delle Lunghe**

**Dalla sez. 12 alla sez. 57**



Rio Basco - medio (T=50 anni)										
Sezioni	Portata totale (m <sup>3</sup> /s)	Fondo alveo (m)	Argine sinistro (m)	Argine destro (m)	Pelo libero (m)	Profondità critica (m)	Energia (m)	Velocità (m/s)	Area bagnata (m <sup>2</sup> )	N° Froude
57	138	62,59	66,84	68,99	65,49	65,49	66,35	4,1	33,65	1,01
56	138	62,13	67,46	67,49	65,28	65,28	66,08	3,98	34,7	1
55	138	60,4	63,94	66,4	63,65	63,68	64,61	4,35	31,7	1,03
54	138	58,01	61,51	62,26	61,16	61,17	62,37	4,87	28,33	1,02
53	138	54,93	60,35	60,35	58,81	58	59,38	3,34	41,3	0,65
52,5	Bridge									
52	138	54,93	60,35	60,35	58,55	58	59,24	3,69	37,42	0,74
51	138	54,06	58,39	69,5	56,82	56,89	58,21	5,23	26,41	1,04
50	138	48,04	52,33	60,47	50,22	51,34	54,11	8,74	15,79	2,33
49	138	46,28	53,79	53,2	48,32	49,03	50,75	6,91	19,96	2,11
48	138	45,96	52,97	49,95	49,74	48,74	50,05	2,48	55,73	0,51
47,5	Bridge									
47	138	45,96	52,97	49,95	49,3	48,75	49,76	3	46	0,66
46	138	45,67	52,6	54,72	49,37	48,38	49,7	2,52	54,69	0,53
45,5	Inl Struct									
45	138	45,67	52,6	54,72	48,38	48,38	49,25	4,13	33,4	1
44	138	43,4	50,56	51,65	46,32	46,56	47,74	5,28	26,15	1,16
43	138	42,05	48,72	48,53	44,53	45,07	46,37	6	23	1,48
42	138	40,3	45,26	50,72	42,85	43,2	44,3	5,32	25,94	1,31
41	138	37,44	42,25	54,26	39,73	40,3	41,7	6,23	22,15	1,55
40	138	36,82	41,12	48,67	38,58	39,14	40,44	6,03	22,87	1,9
39	138	35,91	40,04	45,22	38,06	38,24	39,04	4,39	31,41	1,17
38	138	34,67	42,44	40,47	37,16	37,32	38,24	4,61	29,9	1,14
37	138	33,34	42,02	44,97	37,1	36,76	37,51	2,84	48,64	0,73
36	138	32,26	47,22	48,57	35,12	35,53	36,67	5,51	25,06	1,33
35	138	31,02	40,98	42,16	33,29	33,83	35,01	5,81	23,74	1,69
34	138	30,49	40,43	40,8	33,97	33,54	34,44	3,02	45,67	0,72
33	138	30,36	38,52	41,14	33,33	33,33	34,25	4,24	32,52	1
32	138	29,03	37,29	31,61	32,77	31,63	33,02	2,27	64,62	0,44
31,5	Inl Struct									
31	138	28,96	37,22	31,28	32,38	31,25	32,64	2,33	63,13	0,45
30	138	29,06	35,38	34,1	31,82	31,82	32,48	3,61	38,25	1,01
29	138	27,98	33,94	32,01	30,78	30,78	31,71	4,28	32,26	1
28	138	27,63	33,06	33,06	30,92	30,05	31,25	2,58	53,59	0,52
27,5	Bridge									
27	138	27,56	33,57	33,57	29,53	30	31,04	5,45	25,34	1,58
26	138	26,59	31,67	32,86	29,89	29,89	30,47	3,37	40,94	1
25	138	26,92	32,46	32,62	28,44	28,72	29,63	4,84	28,54	1,33
24,5	Bridge									
24	138	26,78	32,69	32,69	28,06	28,46	29,4	5,13	26,88	1,86
23	138	25,32	32,3	34,82	28,31	28,31	28,94	3,51	39,32	1
22	138	23,93	30,27	30,27	28,32	26,35	28,44	1,56	88,44	0,28
21,5	Bridge									
21	138	23,84	30,26	30,32	27,95	26,63	28,24	2,38	57,93	0,46
20	138	24,42	29,35	29,82	27,1	27,1	28,11	4,44	31,08	1
19	138	23,72	29,26	29,11	27,15	26,4	27,64	3,13	44,12	0,63
18,5	Bridge									
18	138	23,65	29,57	29,44	25,62	26,23	27,44	5,97	23,1	1,79
17	138	22,91	31,82	29,41	26,05	25,7	26,58	3,24	42,63	0,77
16	138	22,79	31,7	29,05	25,91	25,28	26,33	2,87	48	0,62
15	138	21,84	25,56	26,95	24,77	24,77	25,91	4,72	29,24	1
14	138	21,49	26,33	26,42	24,4	24,31	25,45	4,55	30,34	0,94
13	138	20,88	25,95	25,47	23,84	23,58	24,75	4,22	32,74	0,85
12,5	Bridge									
12	138	20,88	25,95	25,47	23,58	23,58	24,71	4,71	29,28	1

RIO BASCO – tratto Medio  
(Tratto dalla confluenza con il Rio Remenone alla confluenza col Rio delle Lunghe)

Rio Basco - medio (T=200 anni)										
Sezioni	Portata totale (m <sup>3</sup> /s)	Fondo alveo (m)	Argine sinistro (m)	Argine destro (m)	Pelo libero (m)	Profondità critica (m)	Energia (m)	Velocità (m/s)	Area bagnata (m <sup>2</sup> )	N° Froude
57	200	62,59	66,84	68,99	66,03	66,03	67,03	4,45	44,99	1,01
56	200	62,13	67,46	67,49	65,57	65,79	66,77	4,85	41,22	1,16
55	200	60,4	63,94	66,4	64,04	64,37	65,39	5,15	38,97	1,14
54	200	58,01	61,51	62,26	61,76	62,13	63,21	5,39	39,52	1,05
53	200	54,93	60,35	60,35	60,58	58,67	60,99	2,81	71,69	0,45
52,5	Bridge									
52	200	54,93	60,35	60,35	59,49	58,67	60,24	3,84	52,14	0,69
51	200	54,06	58,39	69,5	57,59	57,64	59,32	5,82	34,39	1,02
50	200	48,04	52,33	60,47	50,65	52,02	55,39	9,65	20,73	2,31
49	200	46,28	53,79	53,2	48,57	49,59	51,94	8,13	24,61	2,25
48	200	45,96	52,97	49,95	50,34	49,23	50,74	2,8	73,87	0,53
47,5	Bridge									
47	200	45,96	52,97	49,95	49,94	49,23	50,49	3,3	60,61	0,67
46	200	45,67	52,6	54,72	50,02	48,92	50,43	2,83	70,58	0,54
45,5	Inl Struct									
45	200	45,67	52,6	54,72	48,92	48,92	49,95	4,51	44,37	1
44	200	43,4	50,56	51,65	47,23	47,23	48,64	5,27	37,97	1,01
43	200	42,05	48,72	48,53	45	45,69	47,31	6,73	29,74	1,52
42	200	40,3	45,26	50,72	43,3	43,78	45,18	6,06	32,98	1,35
41	200	37,44	42,25	54,26	40,21	40,93	42,67	6,94	28,8	1,54
40	200	36,82	41,12	48,67	38,82	39,58	41,4	7,12	28,09	2,04
39	200	35,91	40,04	45,22	38,35	38,69	39,76	5,25	38,1	1,32
38	200	34,67	42,44	40,47	37,71	37,87	38,96	4,96	40,33	1,11
37	200	33,34	42,02	44,97	37,73	37,15	38,16	2,9	68,86	0,65
36	200	32,26	47,22	48,57	35,74	36,14	37,45	5,78	34,58	1,26
35	200	31,02	40,98	42,16	33,61	34,31	35,82	6,59	30,37	1,78
34	200	30,49	40,43	40,8	34,71	34,03	35,19	3,07	65,2	0,64
33	200	30,36	38,52	41,14	33,88	33,88	34,99	4,68	42,76	1
32	200	29,03	37,29	31,61	33,33	32,23	33,65	2,63	81,49	0,47
31,5	Inl Struct									
31	200	28,96	37,22	31,28	33,03	31,87	33,36	2,61	81,77	0,45
30	200	29,06	35,38	34,1	32,82	32,19	33,26	2,93	68,34	0,63
29	200	27,98	33,94	32,01	32,54	31,31	33,02	3,11	66,85	0,53
28	200	27,63	33,06	33,06	32,6	30,5	32,85	2,21	90,59	0,35
27,5	Bridge									
27	200	27,56	33,57	33,57	30,78	30,42	31,47	3,68	54,32	0,78
26	200	26,59	31,67	32,86	30,44	30,22	31	3,31	60,44	0,81
25	200	26,92	32,46	32,62	30,36	29,18	30,76	2,78	71,97	0,51
24,5	Bridge									
24	200	26,78	32,69	32,69	30,39	28,79	30,57	1,86	107,33	0,34
23	200	25,32	32,3	34,82	30,34	28,66	30,52	1,91	104,97	0,34
22	200	23,93	30,27	30,27	30,36	26,78	30,45	1,36	147,08	0,2
21,5	Bridge									
21	200	23,84	30,26	30,32	29,56	27,19	29,79	2,13	93,93	0,34
20	200	24,42	29,35	29,82	29,34	27,7	29,75	2,83	70,73	0,48
19	200	23,72	29,26	29,11	29,39	26,96	29,64	2,23	92,42	0,37
18,5	Bridge									
18	200	23,65	29,57	29,44	26,95	26,63	27,5	3,27	61,08	0,76
17	200	22,91	31,82	29,41	26,85	26,2	27,34	3,11	64,25	0,67
16	200	22,79	31,7	29,05	26,7	25,75	27,17	3,04	65,84	0,57
15	200	21,84	25,56	26,95	26,18	25,42	26,77	3,58	61,43	0,6
14	200	21,49	26,33	26,42	25,05	24,96	26,41	5,17	38,69	0,96
13	200	20,88	25,95	25,47	24,53	24,22	25,7	4,8	41,7	0,87
12,5	Bridge									
12	200	20,88	25,95	25,47	24,22	24,22	25,66	5,31	37,67	1

Rio Basco - medio (T=500 anni)										
Sezioni	Portata totale (m <sup>3</sup> /s)	Fondo alveo (m)	Argine sinistro (m)	Argine destro (m)	Pelo libero (m)	Profondità critica (m)	Energia (m)	Velocità (m/s)	Area bagnata (m <sup>2</sup> )	N° Froude
57	240	62,59	66,84	68,99	66,32	66,32	67,41	4,63	51,86	1,01
56	240	62,13	67,46	67,49	65,77	66,07	67,16	5,21	46,03	1,21
55	240	60,4	63,94	66,4	64,37	64,78	65,77	5,26	47,56	1,09
54	240	58,01	61,51	62,26	62,07	62,42	63,58	5,59	46,72	1,05
53	240	54,93	60,35	60,35	60,93	59,04	61,41	3,09	78,97	0,48
52,5	Bridge									
52	240	54,93	60,35	60,35	60,07	59,04	60,84	3,88	61,88	0,66
51	240	54,06	58,39	69,5	58,08	58,08	59,97	6,09	39,39	1
50	240	48,04	52,33	60,47	50,91	52,98	56,11	10,11	23,75	2,3
49	240	46,28	53,79	53,2	48,72	49,86	52,63	8,77	27,38	2,31
48	240	45,96	52,97	49,95	50,68	49,52	51,11	2,94	85,96	0,53
47,5	Bridge									
47	240	45,96	52,97	49,95	50,31	49,52	50,89	3,41	72,76	0,65
46	240	45,67	52,6	54,72	50,37	49,22	50,83	3,01	79,76	0,55
45,5	Inl Struct									
45	240	45,67	52,6	54,72	49,22	49,22	50,34	4,7	51,06	1
44	240	43,4	50,56	51,65	47,63	47,63	49,18	5,52	43,47	1
43	240	42,05	48,72	48,53	45,27	46,01	47,84	7,1	33,78	1,54
42	240	40,3	45,26	50,72	43,57	44,12	45,68	6,43	37,31	1,36
41	240	37,44	42,25	54,26	40,51	41,29	43,22	7,3	32,86	1,52
40	240	36,82	41,12	48,67	38,95	39,84	41,97	7,69	31,21	2,1
39	240	35,91	40,04	45,22	38,49	38,95	40,2	5,79	41,45	1,41
38	240	34,67	42,44	40,47	37,98	38,18	39,38	5,23	45,86	1,12
37	240	33,34	42,02	44,97	38,07	37,38	38,52	2,97	80,73	0,62
36	240	32,26	47,22	48,57	36,11	36,49	37,88	5,89	40,76	1,22
35	240	31,02	40,98	42,16	33,79	34,59	36,27	6,98	34,4	1,82
34	240	30,49	40,43	40,8	35,12	34,27	35,61	3,12	76,85	0,61
33	240	30,36	38,52	41,14	34,19	34,19	35,42	4,91	48,87	1
32	240	29,03	37,29	31,61	33,64	32,51	34,02	2,82	91,13	0,48
31,5	Inl Struct									
31	240	28,96	37,22	31,28	33,34	32,13	33,72	2,83	90,7	0,47
30	240	29,06	35,38	34,1	33,15	32,41	33,62	3,06	78,37	0,62
29	240	27,98	33,94	32,01	32,79	31,61	33,38	3,44	73,18	0,56
28	240	27,63	33,06	33,06	32,87	30,76	33,18	2,49	96,38	0,38
27,5	Bridge									
27	240	27,56	33,57	33,57	31,44	30,67	32,04	3,42	70,1	0,64
26	240	26,59	31,67	32,86	31,42	30,41	31,74	2,53	94,97	0,49
25	240	26,92	32,46	32,62	31,33	29,46	31,65	2,52	95,12	0,4
24,5	Bridge									
24	240	26,78	32,69	32,69	30,7	28,98	30,91	2,03	118,09	0,35
23	240	25,32	32,3	34,82	30,64	28,87	30,87	2,08	115,16	0,36
22	240	23,93	30,27	30,27	30,66	27,03	30,78	1,54	156,55	0,21
21,5	Bridge									
21	240	23,84	30,26	30,32	29,54	27,5	29,88	2,57	93,45	0,41
20	240	24,42	29,35	29,82	29,15	28,04	29,81	3,58	67	0,62
19	240	23,72	29,26	29,11	29,23	27,29	29,63	2,81	86,54	0,48
18,5	Bridge									
18	240	23,65	29,57	29,44	27,46	26,84	27,95	3,08	77,95	0,64
17	240	22,91	31,82	29,41	27,38	26,54	27,84	3,01	79,77	0,58
16	240	22,79	31,7	29,05	27,23	26,02	27,71	3,07	78,11	0,54
15	240	21,84	25,56	26,95	26,78	25,87	27,33	3,48	75,44	0,54
14	240	21,49	26,33	26,42	25,44	25,34	26,97	5,48	43,83	0,95
13	240	20,88	25,95	25,47	24,97	24,65	26,25	5,02	47,82	0,86
12,5	Bridge									
12	240	20,88	25,95	25,47	24,65	24,65	26,21	5,54	43,3	1

# **PROFILI DI RIGURGITO**

PER LE PORTATE

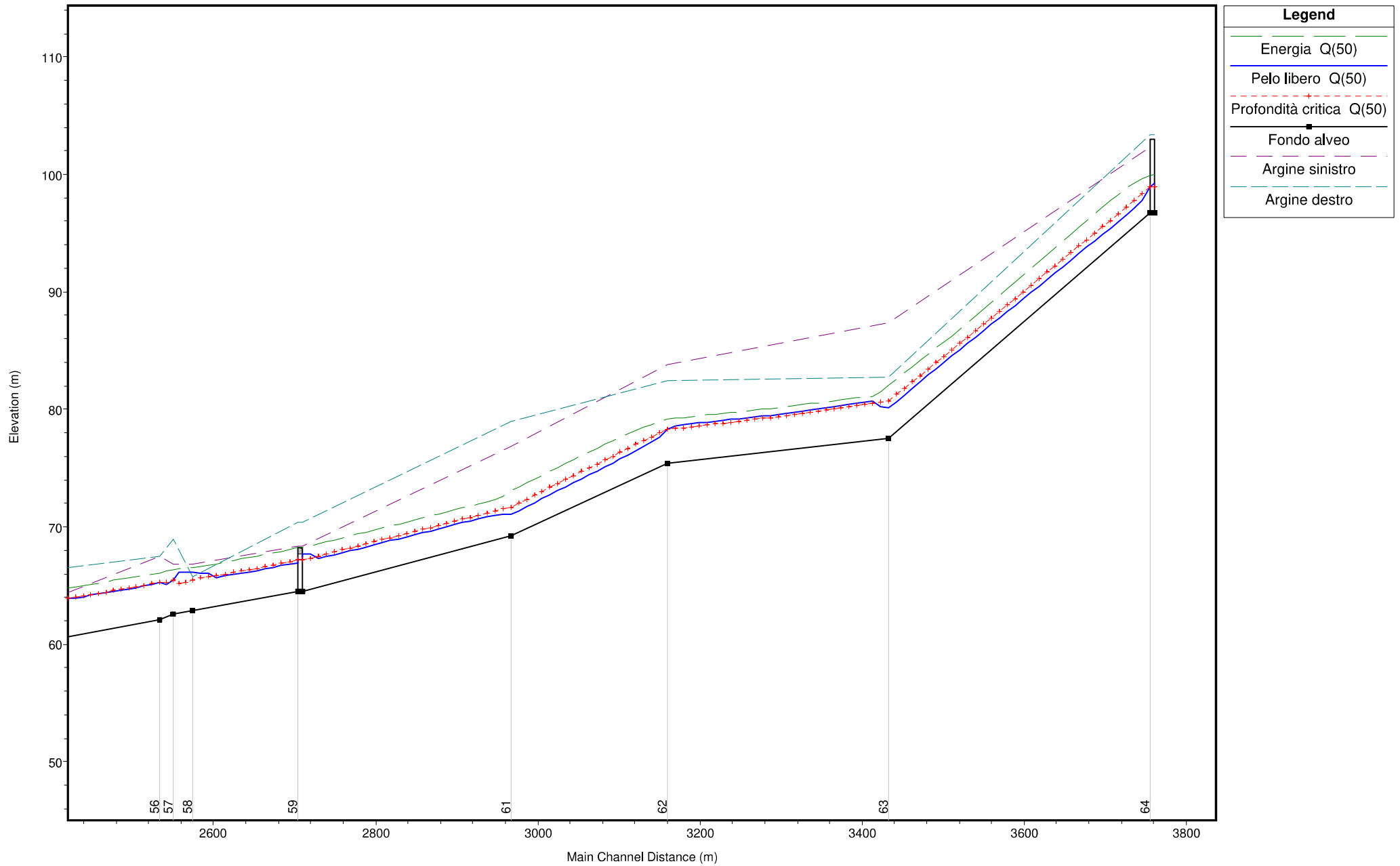
T=50, 200, 500 ANNI

## **RIOBASCO – Monte**

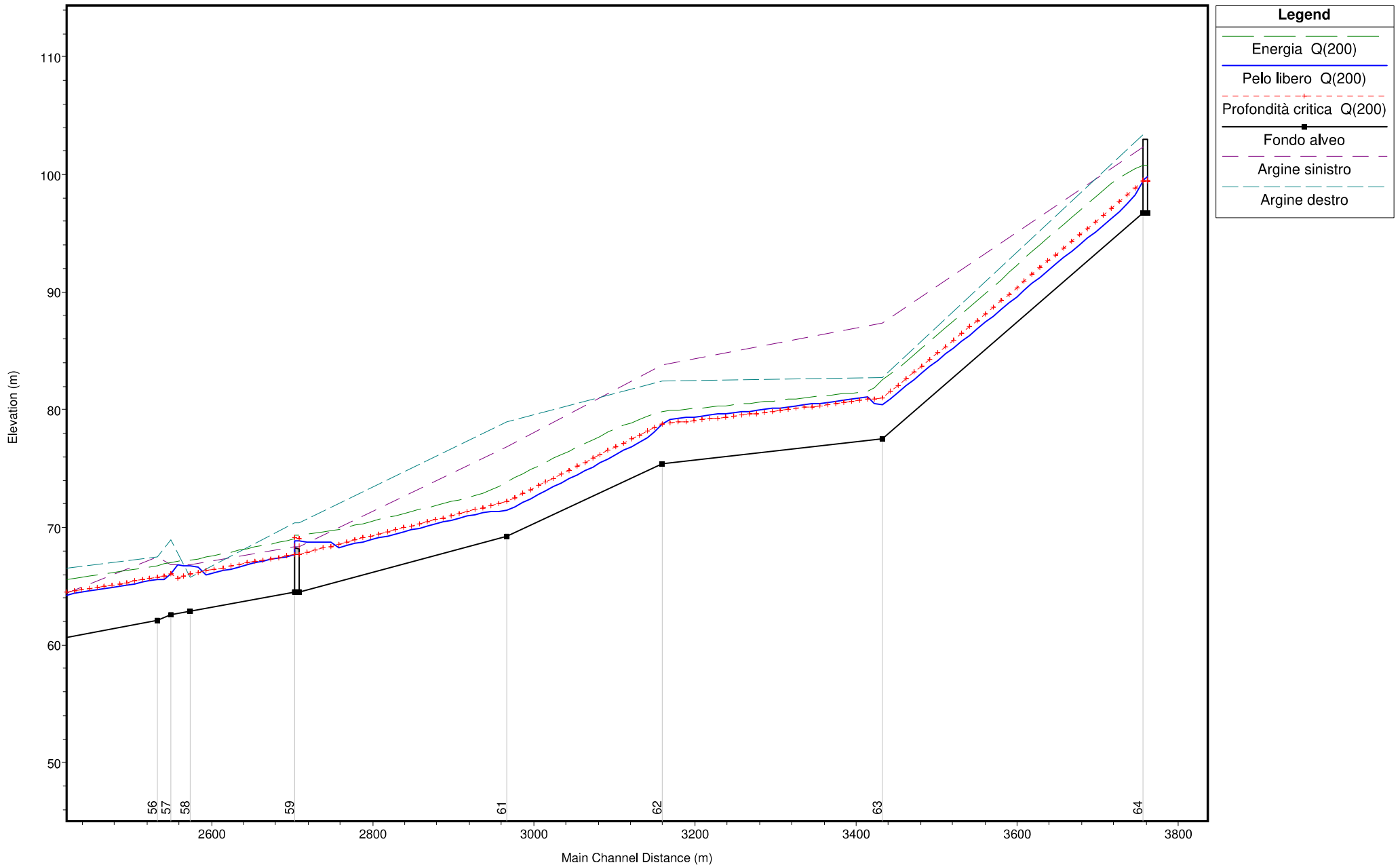
**Tratto a monte della confluenza con il Rio delle Lunghe**

Dalla sez. 58 alla sez. 65

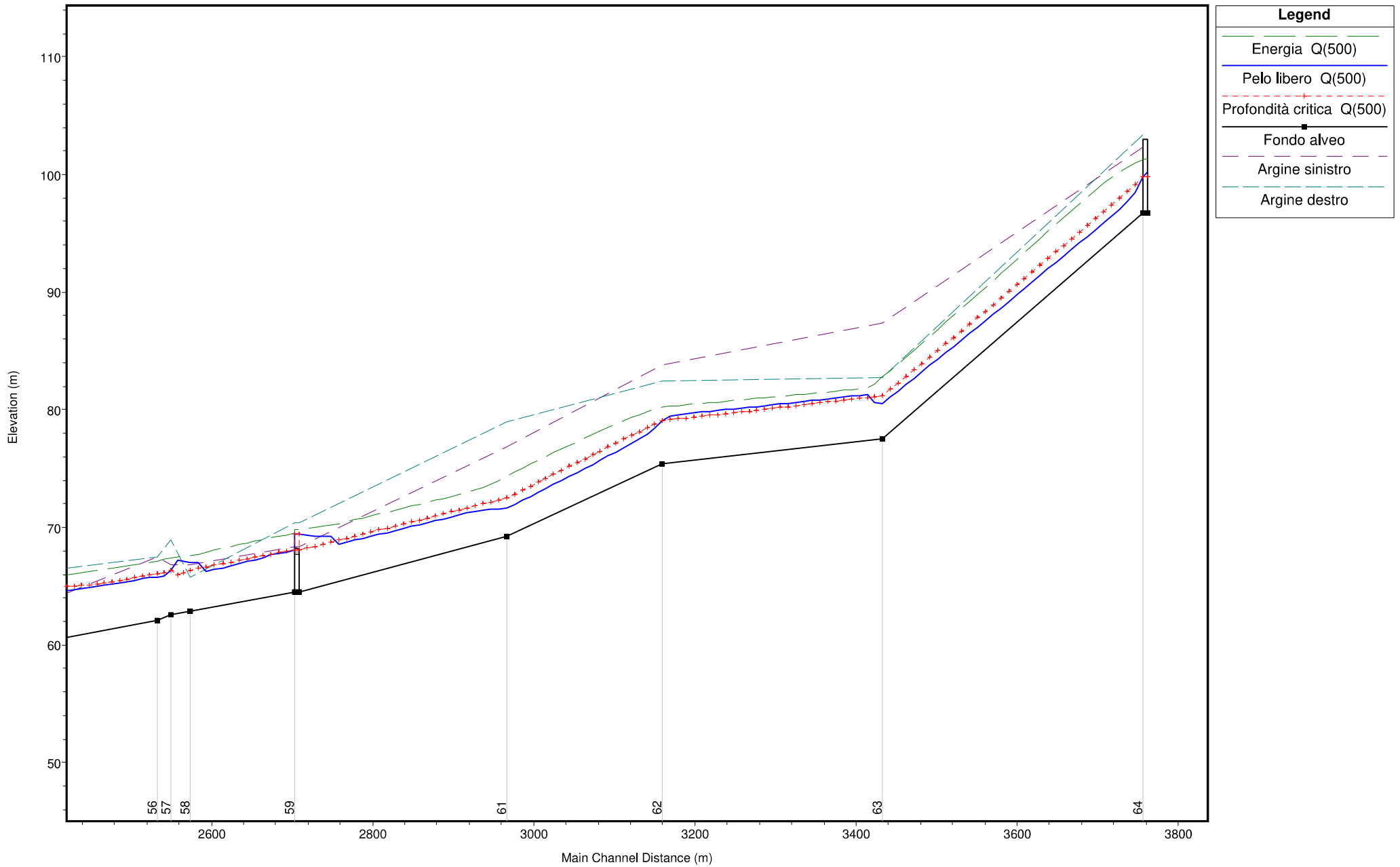
Torrente Riobasco monte – Profilo longitudinale di moto permanente per T = 50 anni



Torrente Riobasco monte – Profilo longitudinale di moto permanente per T = 200 anni



Torrente Riobasco monte – Profilo longitudinale di moto permanente per T = 500 anni



# **GEOMETRIA DELLE SEZIONI**

## **E LIVELLI IDRICI**

**PER LE PORTATE**

**T=50, 200, 500 ANNI**

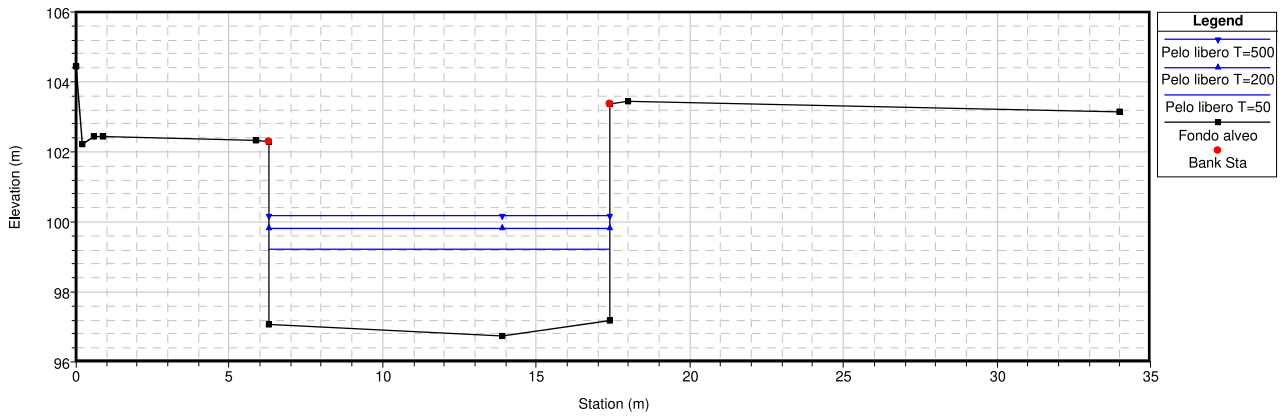
### **RIOBASCO - Monte**

**Tratto a monte della confluenza col Rio delle Lunghe**

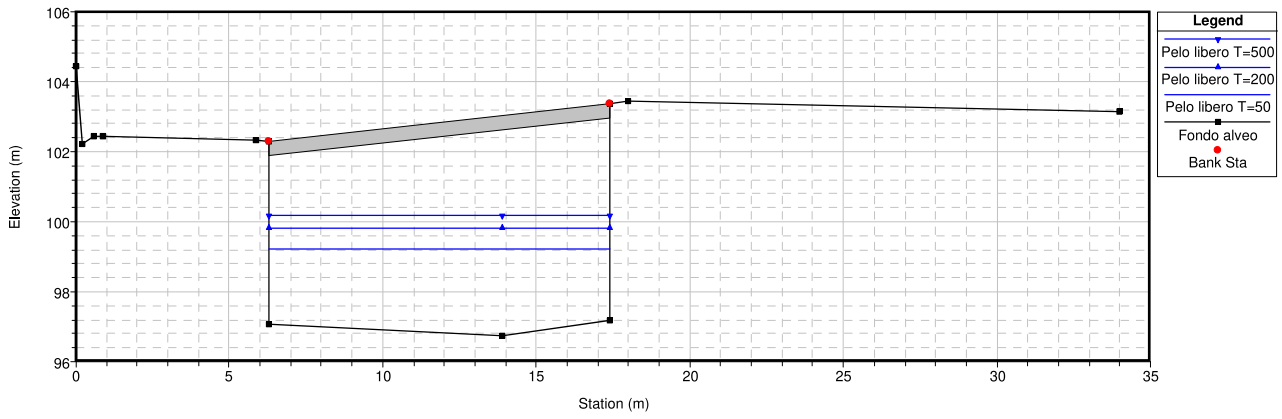
**Dalla sez. 58 alla sez. 65**



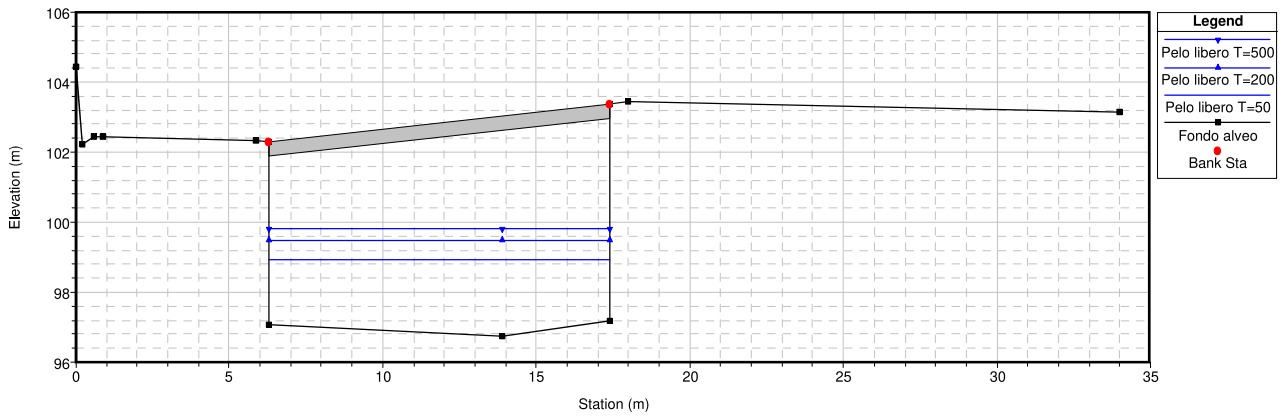
RS = 65



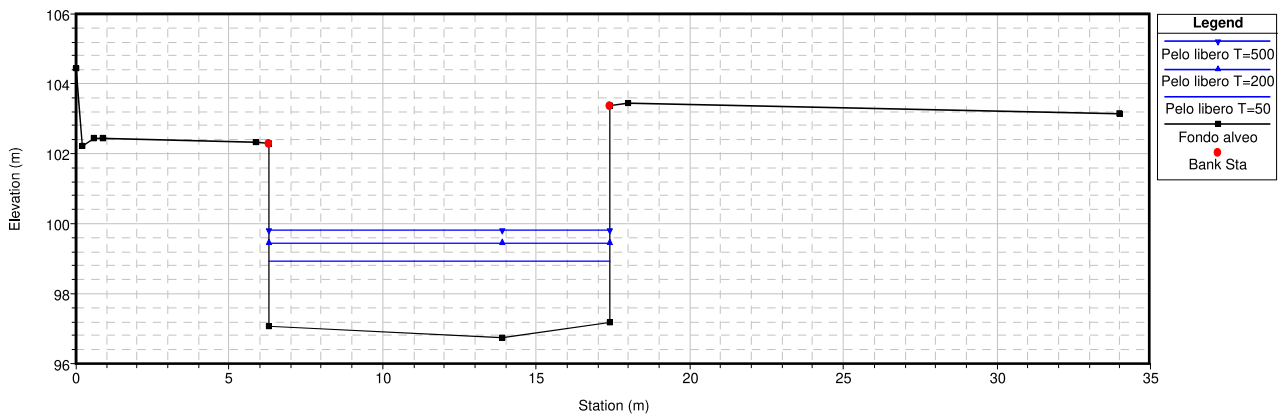
RS = 64.5 BR



RS = 64.5 BR

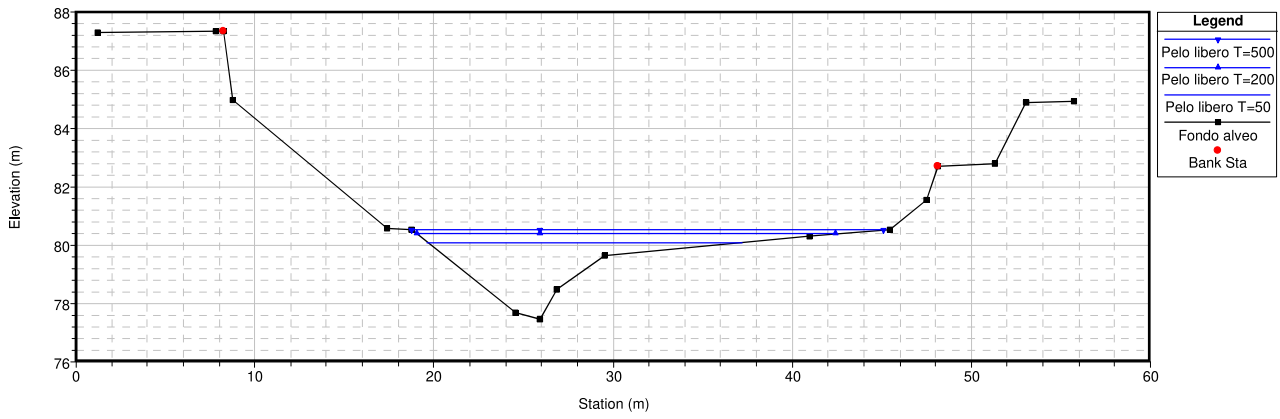


RS = 64

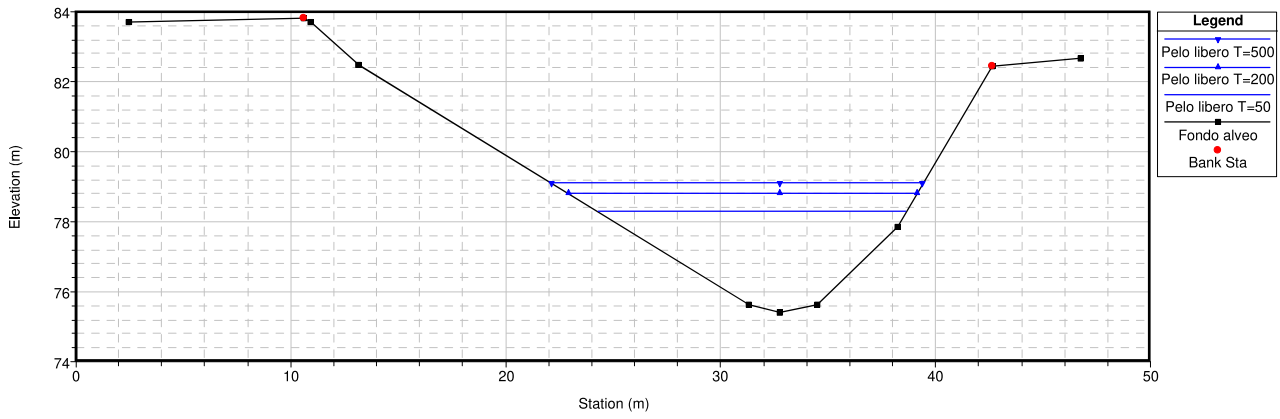


*RIO BASCO – Monte  
(tratto a monte della confluenza con il rio Delle Lunghe)*

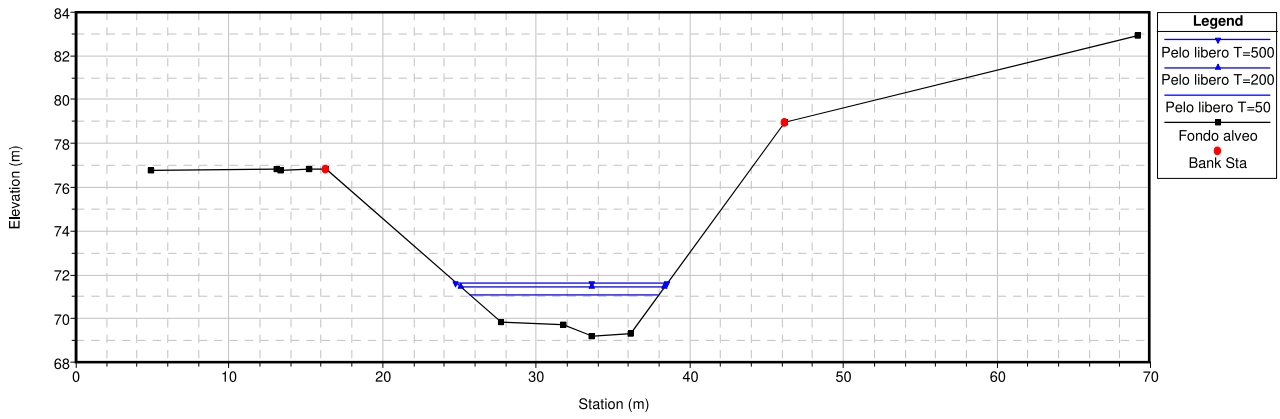
RS = 63



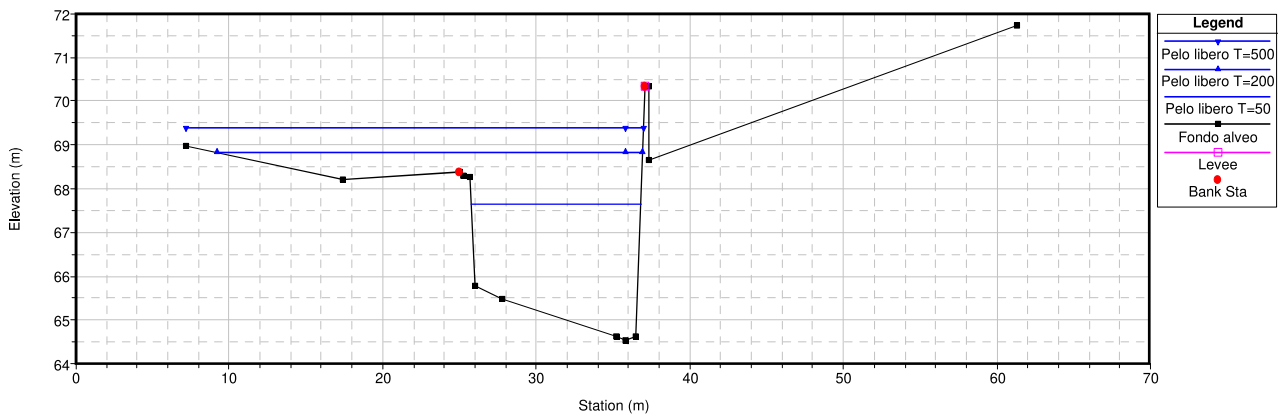
RS = 62



RS = 61

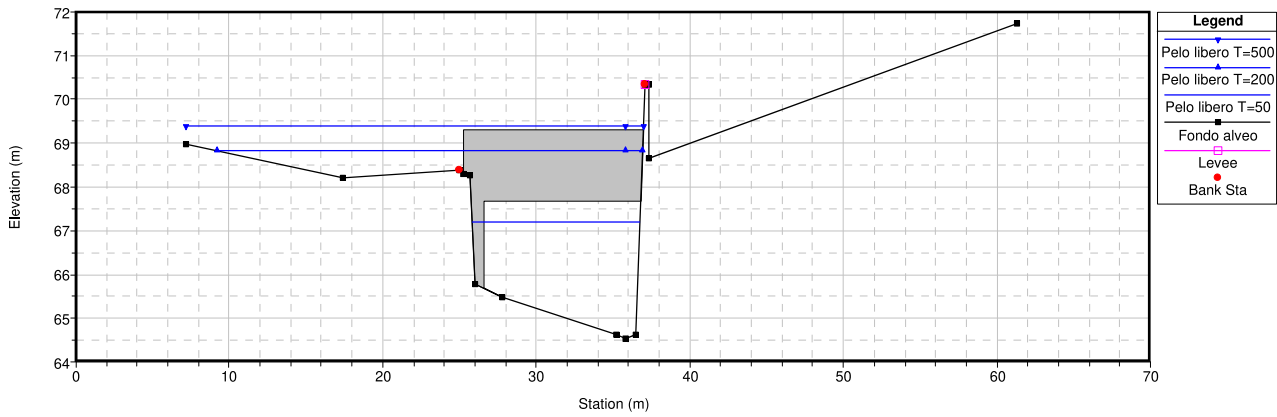


RS = 60

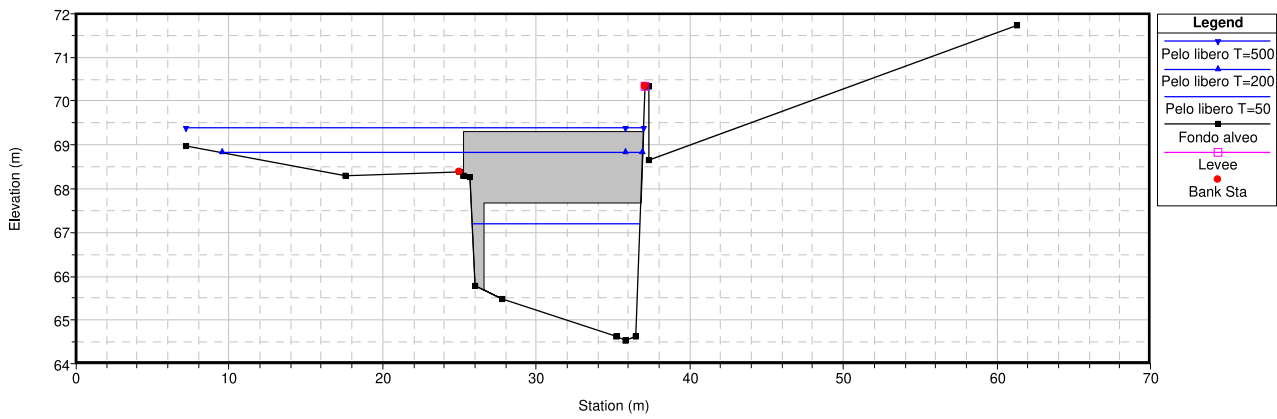


*RIO BASCO – Monte  
(tratto a monte della confluenza con il rio Delle Lunghe)*

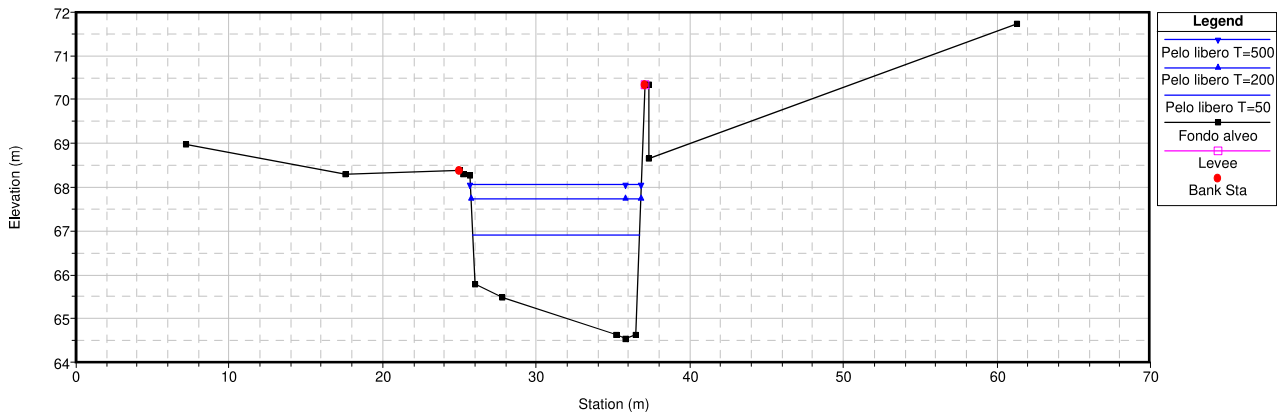
RS = 59.5 BR



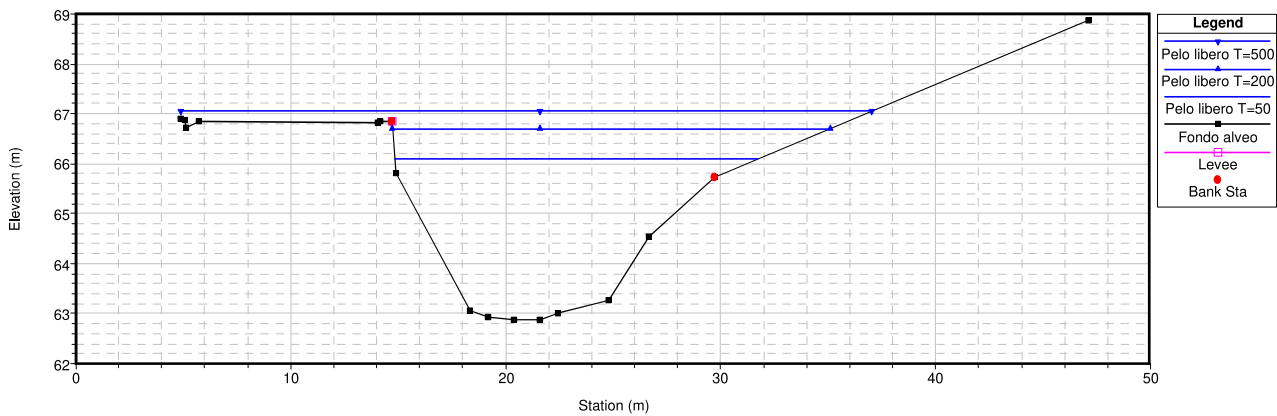
RS = 59.5 BR



RS = 59



RS = 58



*RIO BASCO – Monte  
(tratto a monte della confluenza con il rio Delle Lunghe)*

**TABELLE DELLE GRANDEZZE  
IDRAULICHE SIGNIFICATIVE**

PER LE PORTATE

T=50, 200, 500 ANNI

**RIOBASCO - Monte**

**Tratto a monte della confluenza col Rio delle Lunghe**

Dalla sez. 58 alla sez. 65

<b>Rio Basco - monte (T=50 anni)</b>										
Sezioni	Portata totale (m <sup>3</sup> /s)	Fondo alveo (m)	Argine sinistro (m)	Argine destro (m)	Pelo libero (m)	Profondità critica (m)	Energia (m)	Velocità (m/s)	Area bagnata (m <sup>2</sup> )	N° Froude
65	98	96,74	102,3	103,37	99,22	98,92	99,97	3,85	25,49	0,81
64,5	Bridge									
64	98	96,74	102,3	103,37	98,92	98,92	99,92	4,42	22,17	1
63	98	77,48	87,34	82,73	80,09	80,71	82,05	6,2	15,81	2,09
62	98	75,39	83,83	82,45	78,29	78,29	79,14	4,09	23,99	1,01
61	98	69,19	76,82	78,94	71,06	71,69	73,05	6,25	15,68	1,76
60	98	64,53	68,39	70,35	67,66	67,17	68,31	3,58	27,38	0,73
59,5	Bridge									
59	98	64,53	68,39	70,35	66,9	67,17	68,24	5,12	19,13	1,23
58	98	62,88	66,84	65,74	66,1	65,49	66,55	2,98	33,14	0,64
<b>Rio Basco - monte (T=200 anni)</b>										
Sezioni	Portata totale (m <sup>3</sup> /s)	Fondo alveo (m)	Argine sinistro (m)	Argine destro (m)	Pelo libero (m)	Profondità critica (m)	Energia (m)	Velocità (m/s)	Area bagnata (m <sup>2</sup> )	N° Froude
65	141	96,74	102,3	103,37	99,81	99,46	100,8	4,4	32,03	0,83
64,5	Bridge									
64	141	96,74	102,3	103,37	99,46	99,46	100,74	5,01	28,13	1,01
63	141	77,48	87,34	82,73	80,39	81	82,5	6,45	21,86	2,13
62	141	75,39	83,83	82,45	78,8	78,8	79,8	4,43	31,84	1,01
61	141	69,19	76,82	78,94	71,42	72,2	73,89	6,96	20,25	1,8
60	141	64,53	68,39	70,35	68,83	67,73	69,36	3,27	47,6	0,56
59,5	Bridge									
59	141	64,53	68,39	70,35	67,73	67,73	69	5,01	28,16	1
58	141	62,88	66,84	65,74	66,7	66,01	67,25	3,3	44,43	0,63
<b>Rio Basco - monte (T=500 anni)</b>										
Sezioni	Portata totale (m <sup>3</sup> /s)	Fondo alveo (m)	Argine sinistro (m)	Argine destro (m)	Pelo libero (m)	Profondità critica (m)	Energia (m)	Velocità (m/s)	Area bagnata (m <sup>2</sup> )	N° Froude
65	170	96,74	102,3	103,37	100,17	99,8	101,31	4,71	36,06	0,83
64,5	Bridge									
64	170	96,74	102,3	103,37	99,8	99,8	101,25	5,33	31,92	1
63	170	77,48	87,34	82,73	80,53	81,19	82,8	6,68	25,46	2,17
62	170	75,39	83,83	82,45	79,1	79,1	80,19	4,61	36,85	1,01
61	170	69,19	76,82	78,94	71,64	72,51	74,38	7,34	23,15	1,81
60	170	64,53	68,39	70,35	69,4	68,07	69,82	3,04	64,18	0,49
59,5	Bridge									
59	170	64,53	68,39	70,35	68,07	68,07	69,51	5,32	31,96	1
58	170	62,88	66,84	65,74	67,05	66,32	67,63	3,45	53,94	0,62