

AUTORITA' DI BACINO
DI RILIEVO REGIONALE



PROVINCIA
DI SAVONA

PIANO DI BACINO NOLI

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

AGGIORNAMENTI PIANO DI BACINO NOLI

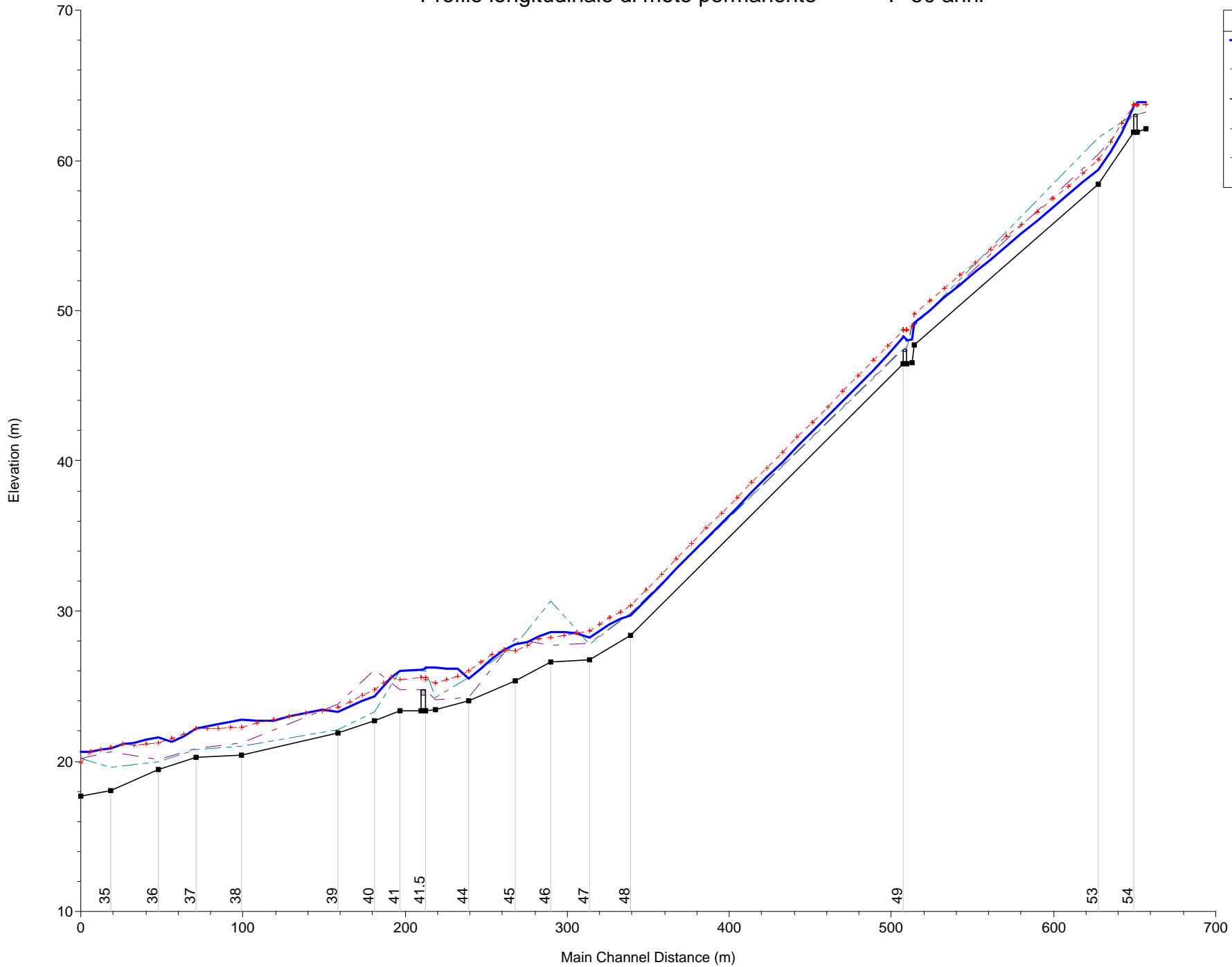
DELIBERA	OGGETTO	DESCRIZIONE	ATTI MODIFICATI
D.G.P. n.156 del 26/07/2005	Attuazione del comma 15 dell'art. 97 della L.R. 18/1999 relativo alle procedure di modifica ed integrazione dei piani di bacino di rilievo regionale	<p>Aggiornamento dei Piani di Bacino sulla base delle attività finanziate con D.G.R. 1592/03, mediante approfondimenti geologici sul bacino del Torrente Noli, come approvato nel Comitato Tecnico Provinciale della Difesa del Suolo seduta del 19/05/2005</p>	<ul style="list-style-type: none"> - Relazione generale - TAV. 02 Carta Geolitologica (CTP 19/05/05) CTR 229130-140, 246010 - TAV. 03 Carta Geomorfologica (CTP 19/05/05) CTR 229130-140, 246010 - TAV. 05 Carta della Franosità Reale (CTP 19/05/05) CTR 229130-140, 246010 - TAV. 08 Carta della Suscettività al dissesto dei versanti (CTP 19/05/05) CTR 229130-140, 246010 - TAV. 10 Carta del Rischio Geomorfologico (CTP 19/05/05) CTR 229130-140, 246010
		<p>Aggiornamento dei Piani di Bacino sulla base delle attività finanziate con D.G.R. 1592/03, mediante studio idraulico del Rio Armareo come approvato nel Comitato Tecnico Provinciale della Difesa del Suolo seduta del 28/06/05</p>	<ul style="list-style-type: none"> - Relazione generale - TAV. 09 Carta delle Fasce di inondabilità (CTP 28/06/05) CTR 229130-140-246010 - TAV. 11 Carta del Rischio Idraulico (CTP 28/06/05) CTR 229130-140,-246010 - TAV. 13 Carta del Reticolo Idrografico Principale (CTP 19/05/05) CTR 229130-140 - TAV. 14 Carta delle Aree inondabili (CTP 28/06/05) CTR 229130-140-246010 - TAV. 17 Carta dei tratti d'alveo indagati (CTP 28/06/05) CTR 245-1,246-4,228-2,229-3 - Verifiche idrauliche
		<p>Aggiornamento dei Piani di Bacino sulla base delle attività finanziate con D.G.R. 1592/03, mediante revisione del piano interventi sul bacino del Torrente Noli, come approvato nel Comitato Tecnico Provinciale della Difesa del Suolo seduta del 28/06/05</p>	<ul style="list-style-type: none"> - Piano interventi - TAV. 12 Carta degli interventi (CTP 28/06/05) CTR 229130-140, 246010

		<p>Modifiche degli atti di piano a seguito di evidenziazione di errori di priorità di stampa, controllo incrociato dei tematismi, comunicazioni da parte di altri Servizi di questo Settore come approvati nel Comitato Tecnico Provinciale della Difesa del Suolo seduta del 19/05/2005</p>	<p>TAV. 08 Carta della Suscettività al dissesto dei versanti (CTP 19/05/05) CTR 229130-140 TAV. 10 Carta del Rischio Geomorfologico (CTP 19/05/05) CTR 229130-140</p>
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**PROFILI DI RIGURGITO IN CONDIZIONI DI MOTO
PERMANENTE PER LE PORTATE T=50, 200, 500 ANNI**

NOLI - monte

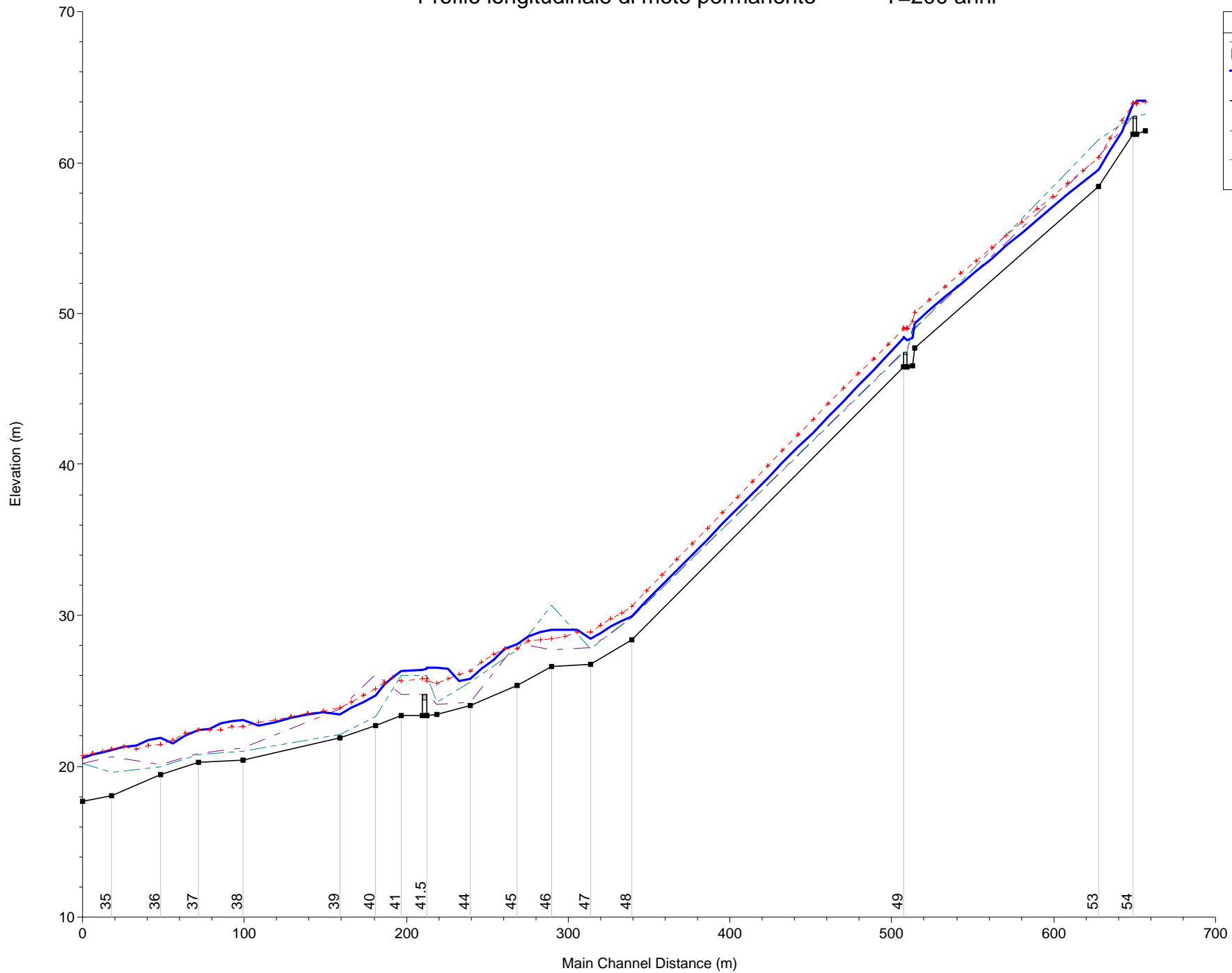
Profilo longitudinale di moto permanente T=50 anni



Legend	
	Pelo libero T=50
	Profondità critica T=50
	Fondo alveo
	Argine sinistro
	Argine destro

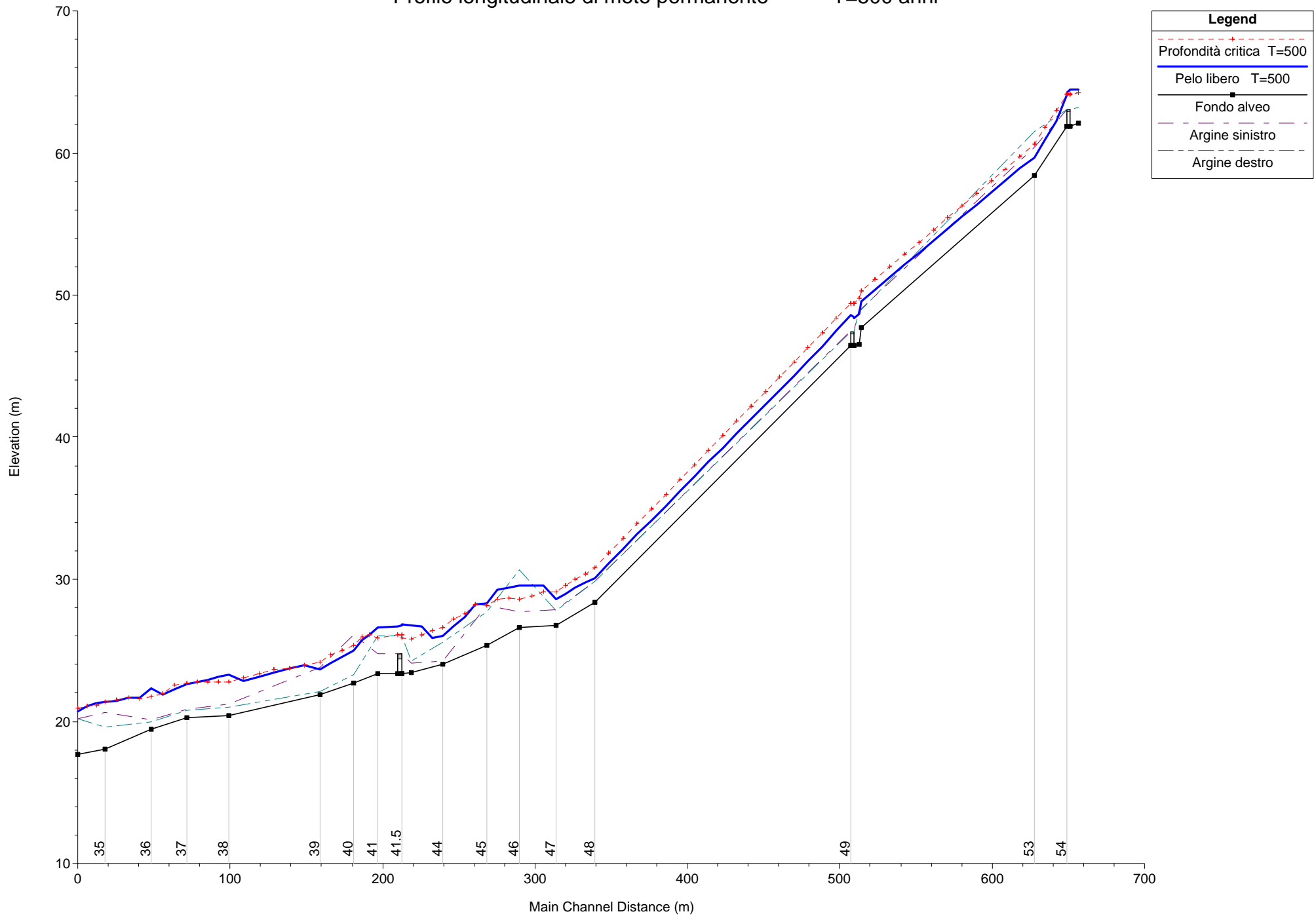
Profilo longitudinale di moto permanente

T=200 anni



Legend	
Profondità critica T=200	(Red dashed line with '+' markers)
Pelo libero T=200	(Blue solid line)
Fondo alveo	(Black solid line with square markers)
Argine sinistro	(Purple dashed line)
Argine destro	(Green dashed line)

Profilo longitudinale di moto permanente T=500 anni



GEOMETRIA DELLE SEZIONI ED ALTEZZA DEL PELO
LIBERO IN CONDIZIONI DI MOTO PERMANENTE
PER LE PORTATE T=50, 200, 500 ANNI

NOLI - monte

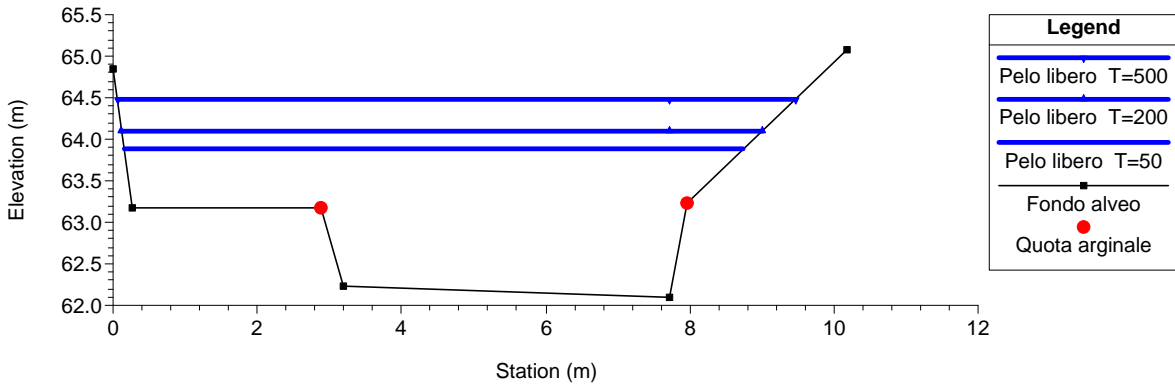
DALLA SEZ. 56

ALLA SEZ. 34

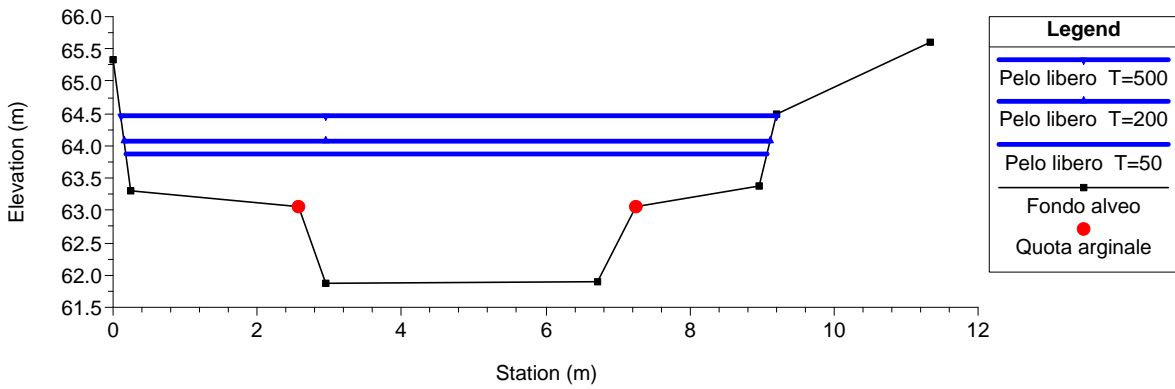
T. NOLI - monte

Sezioni trasversali

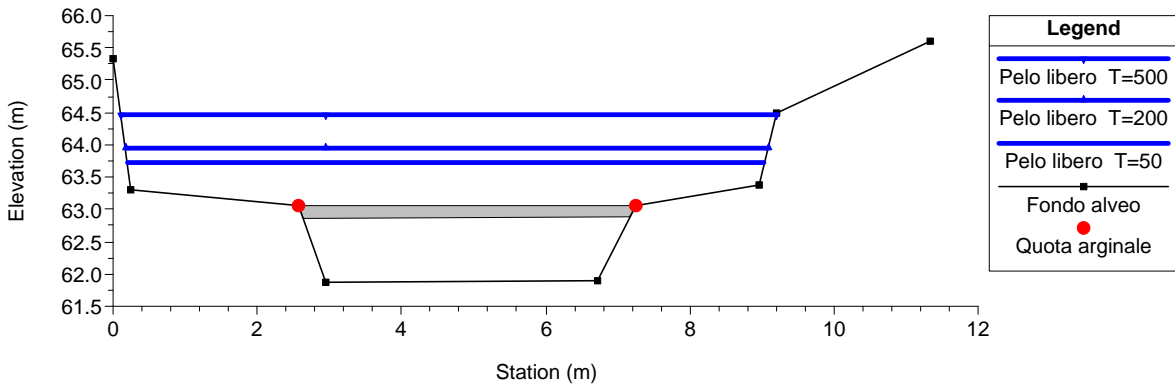
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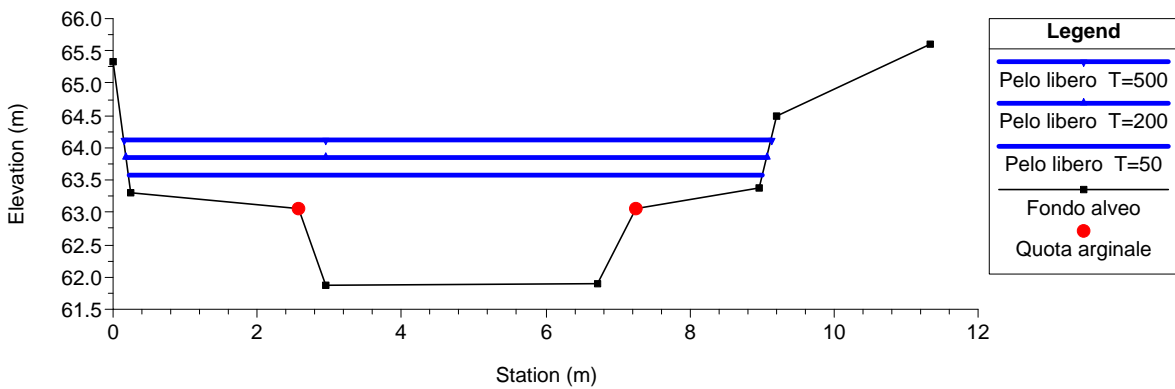
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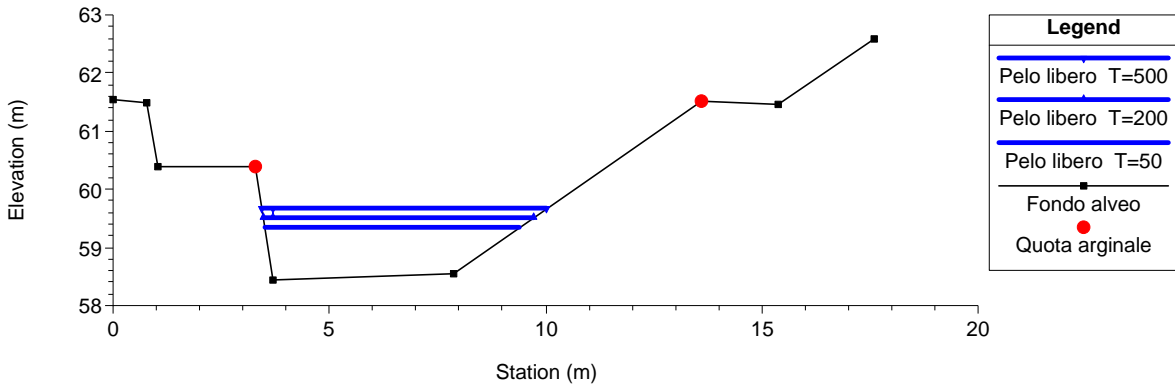
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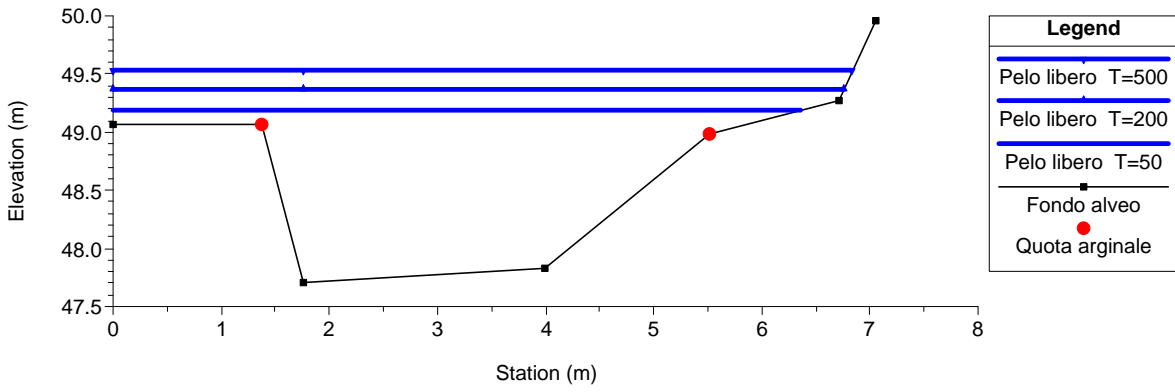
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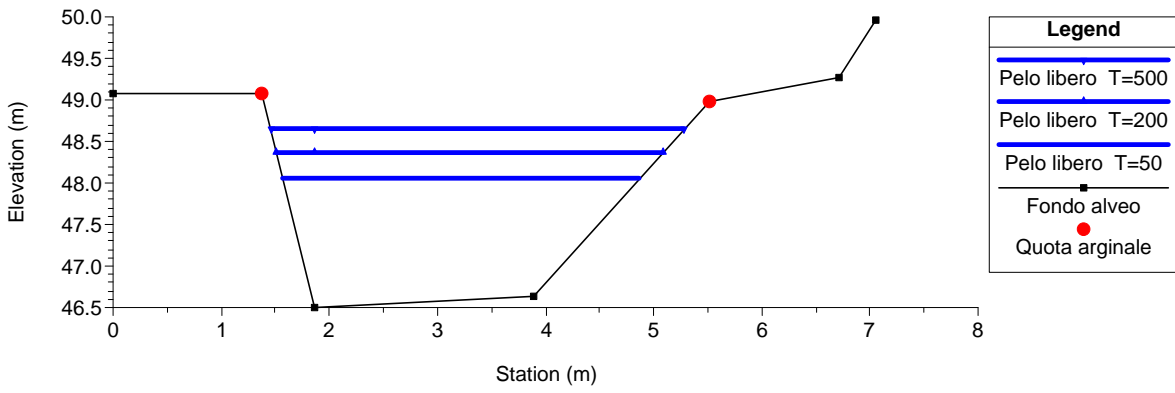
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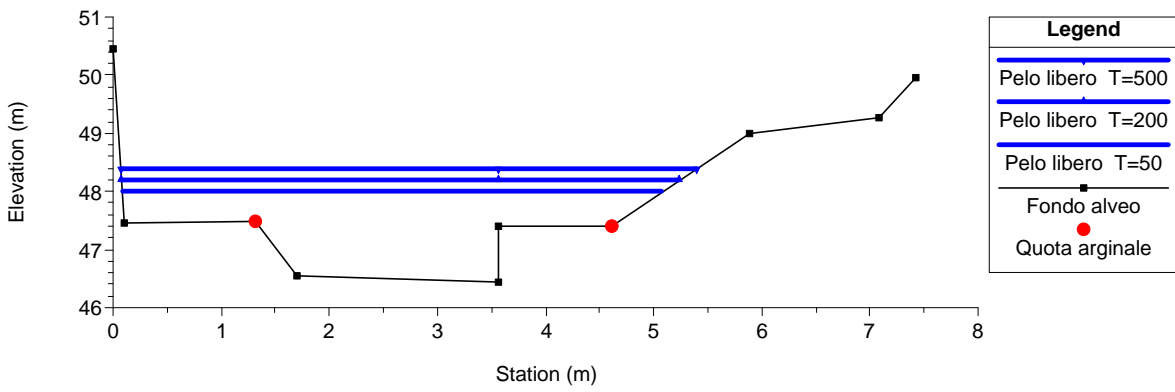
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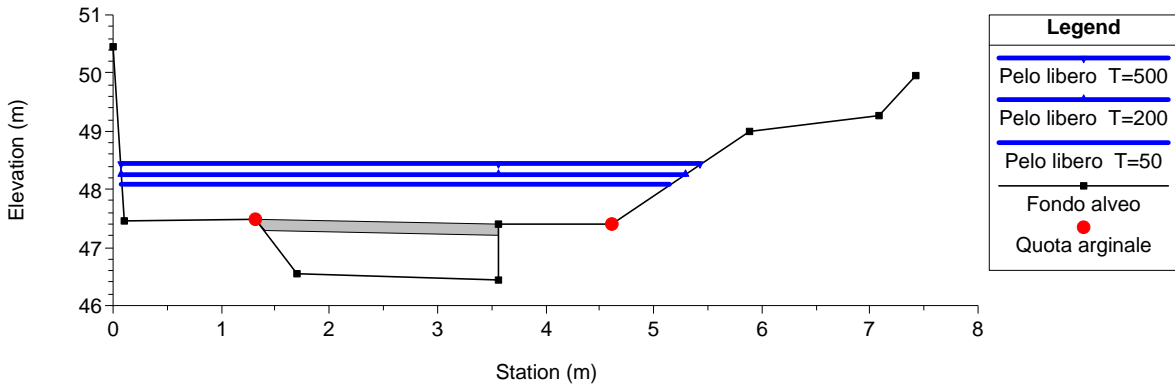
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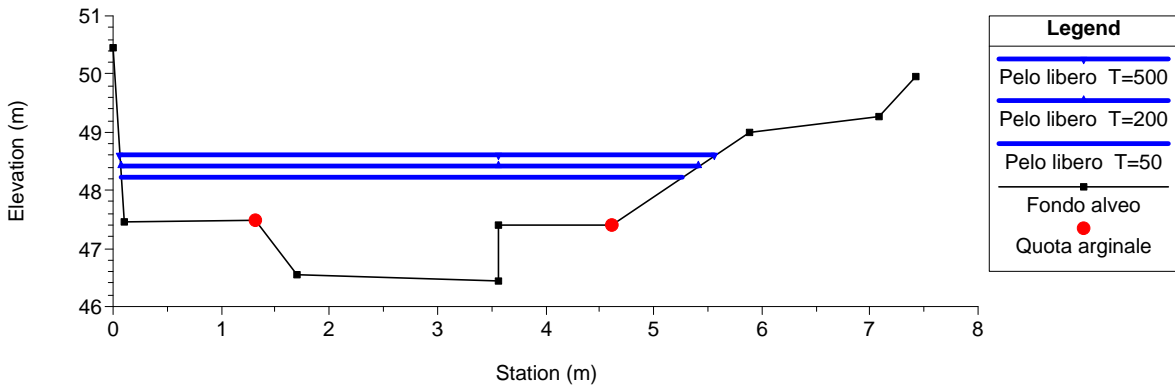
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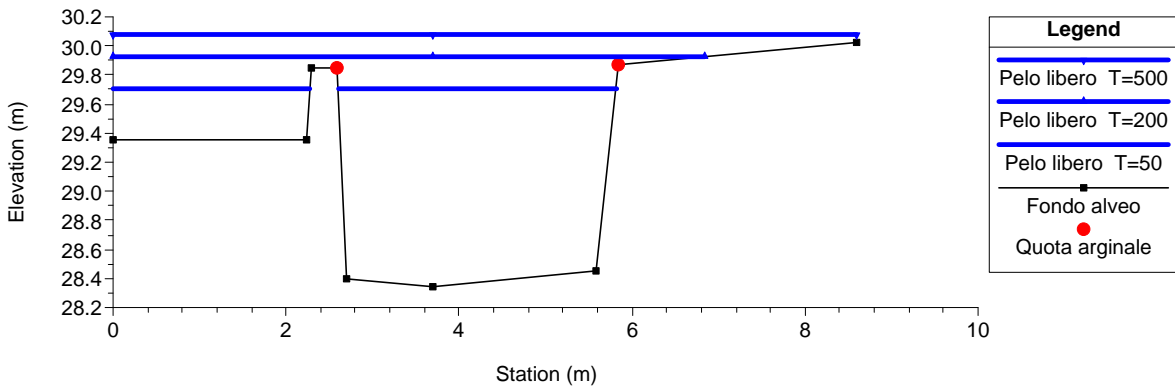
RS = 49.5 BR



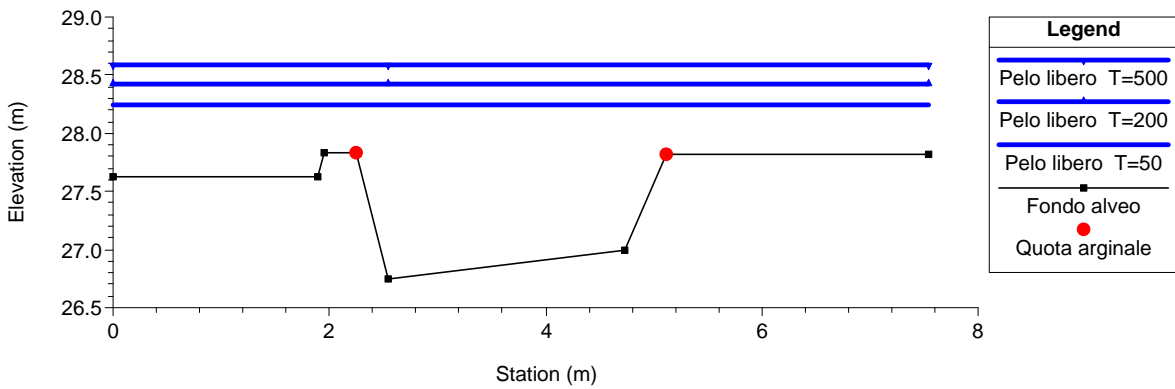
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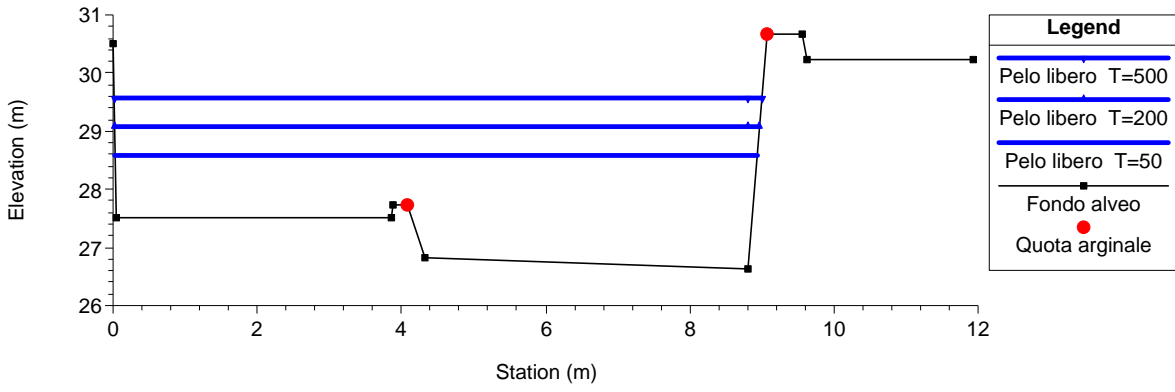
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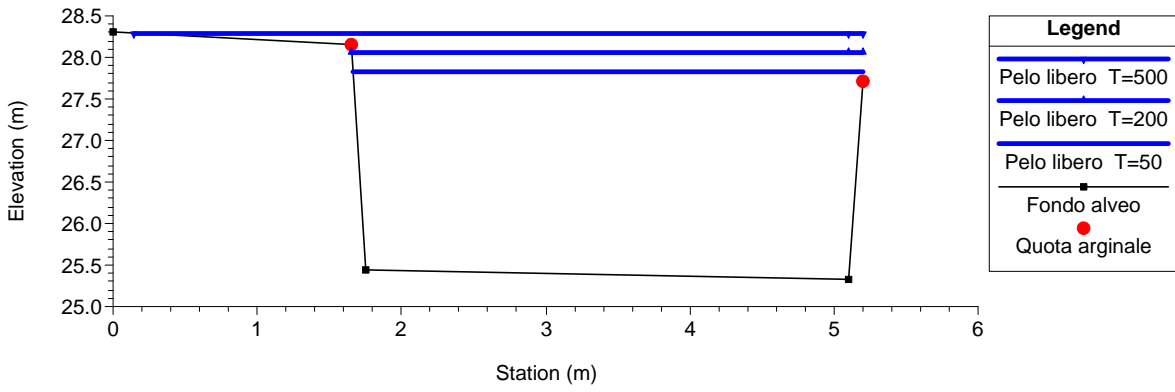
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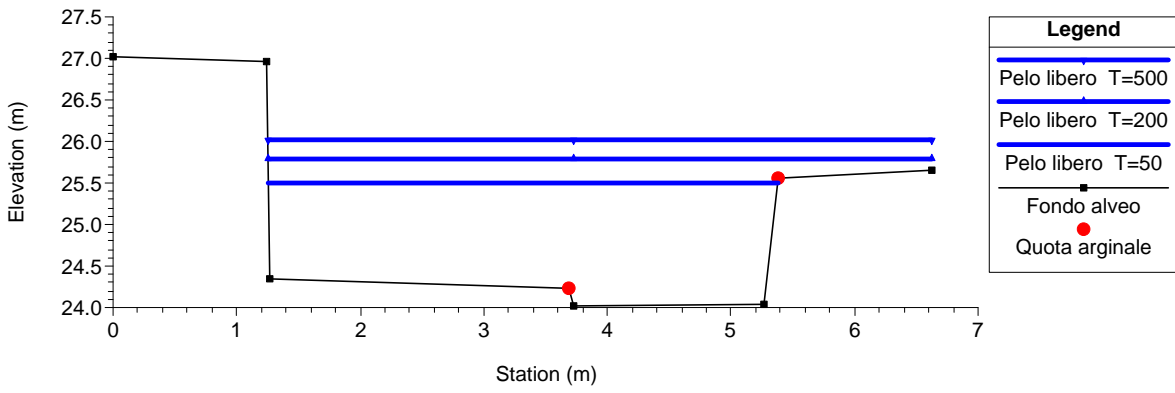
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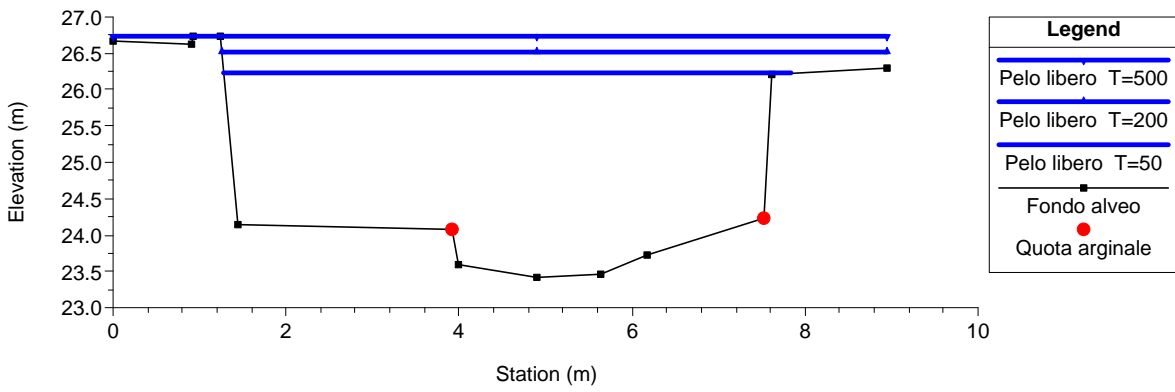
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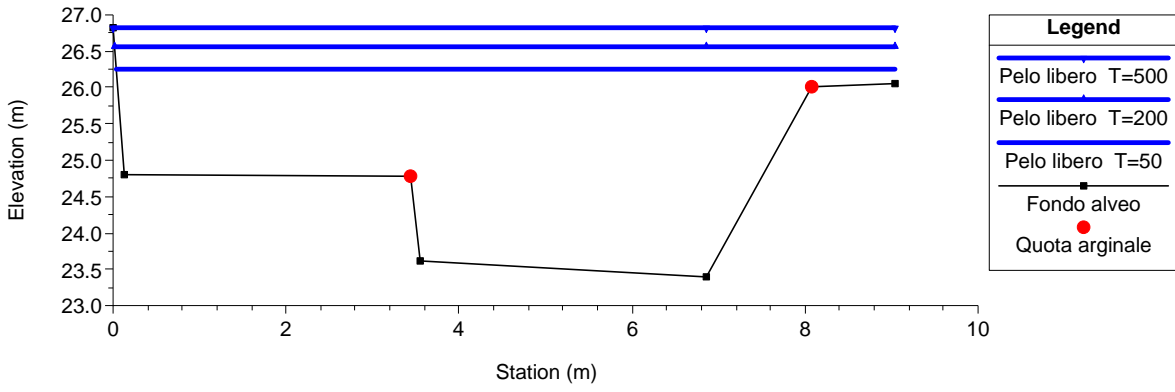
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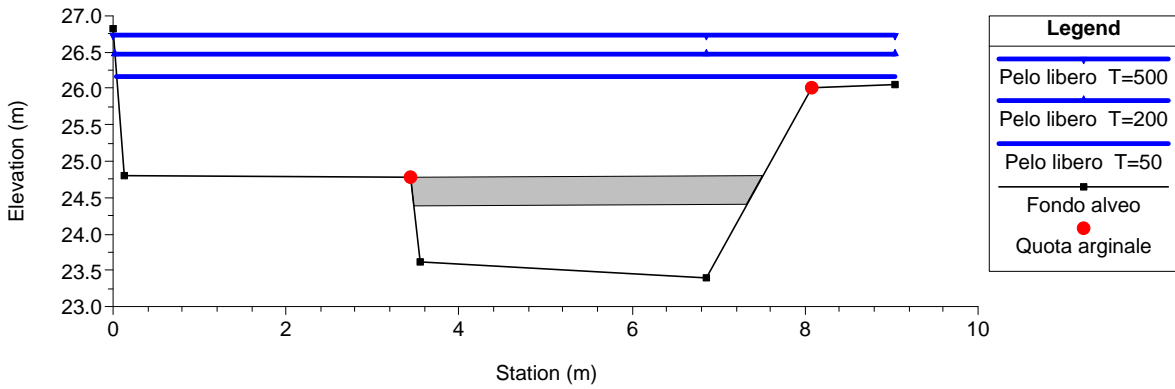
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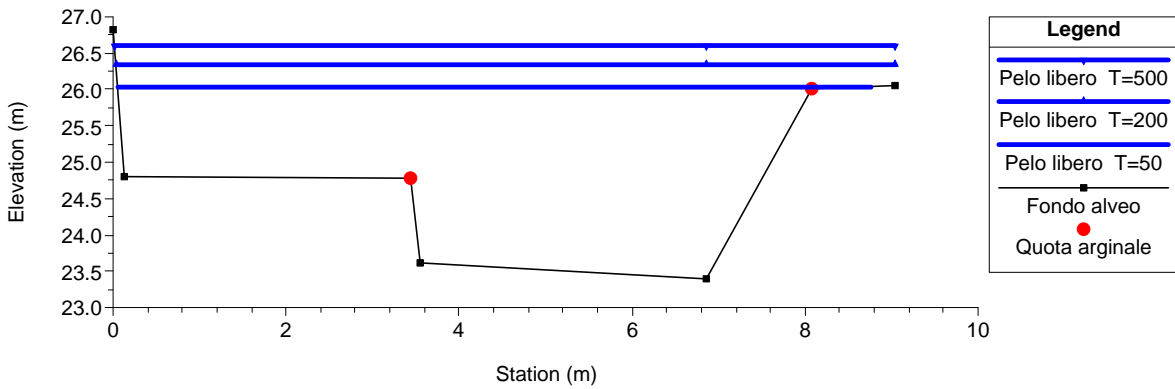
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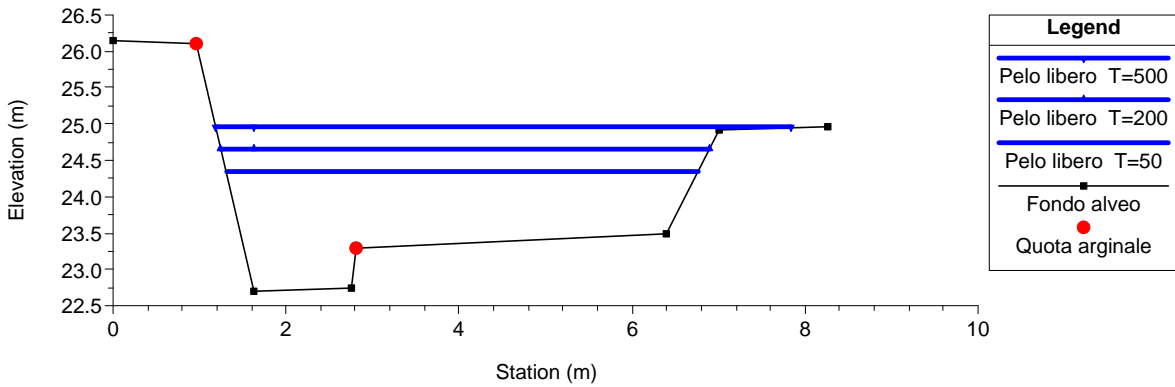
RS = 41.5 BR



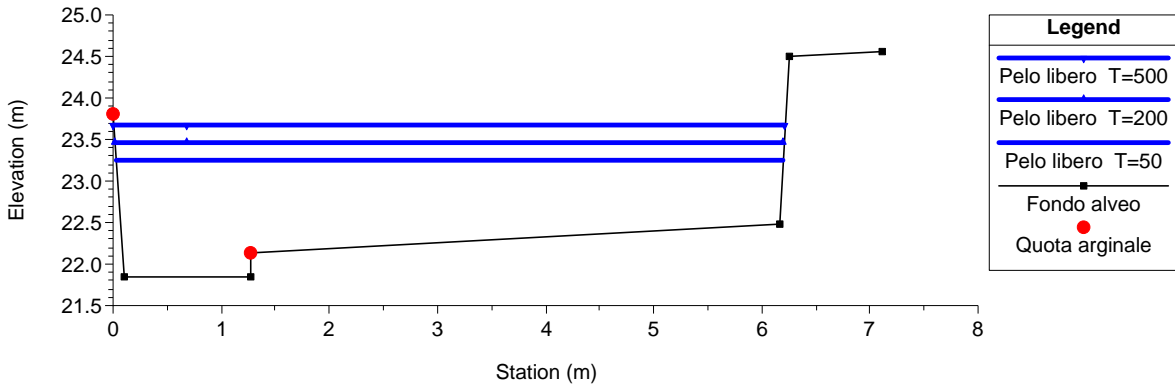
RS = 41



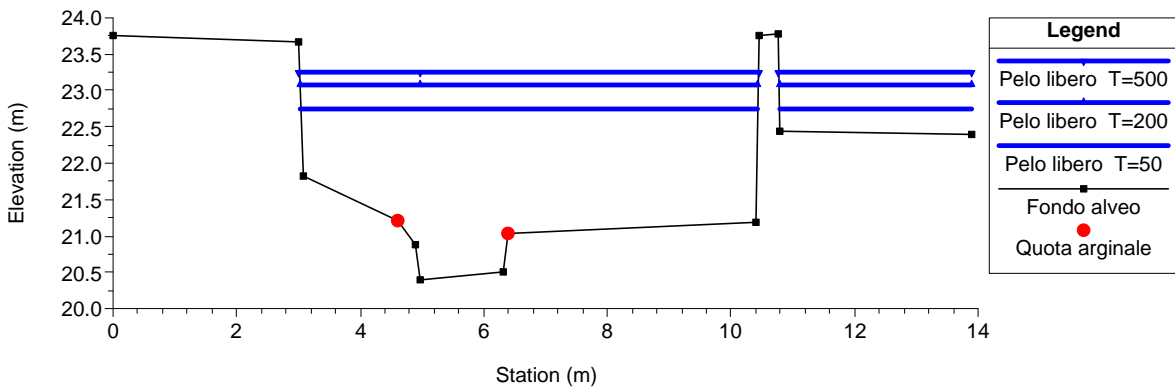
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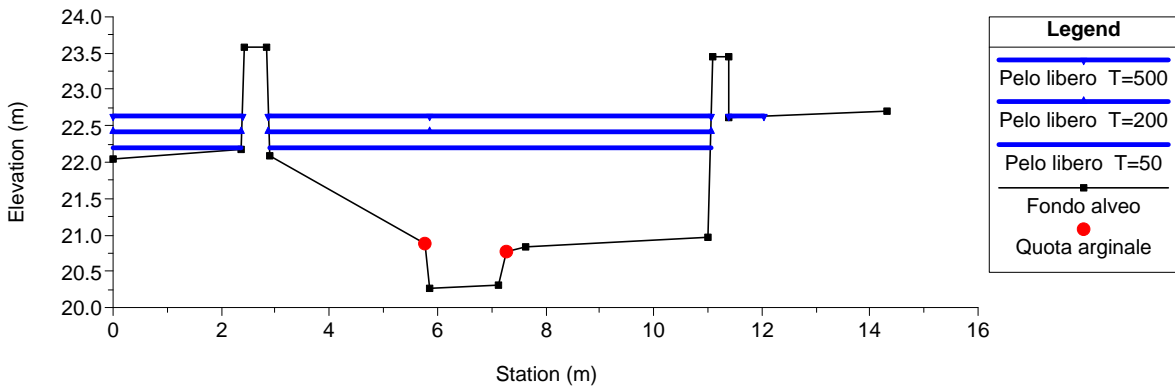
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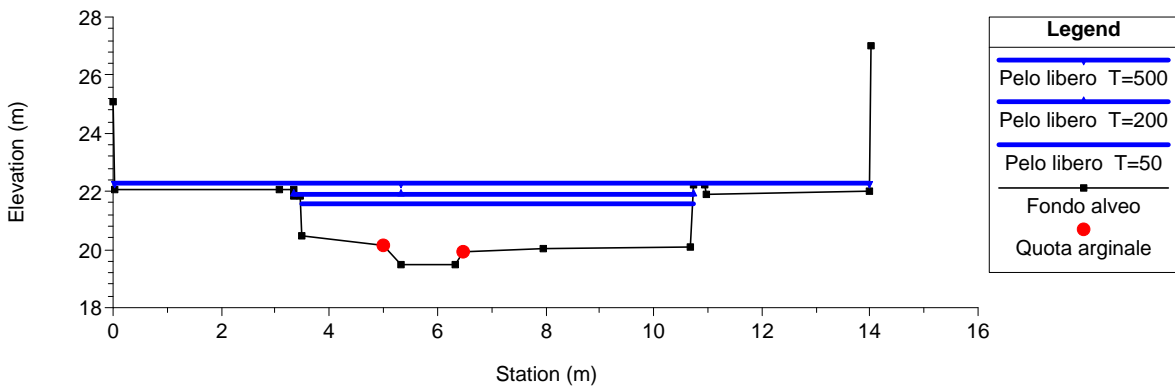
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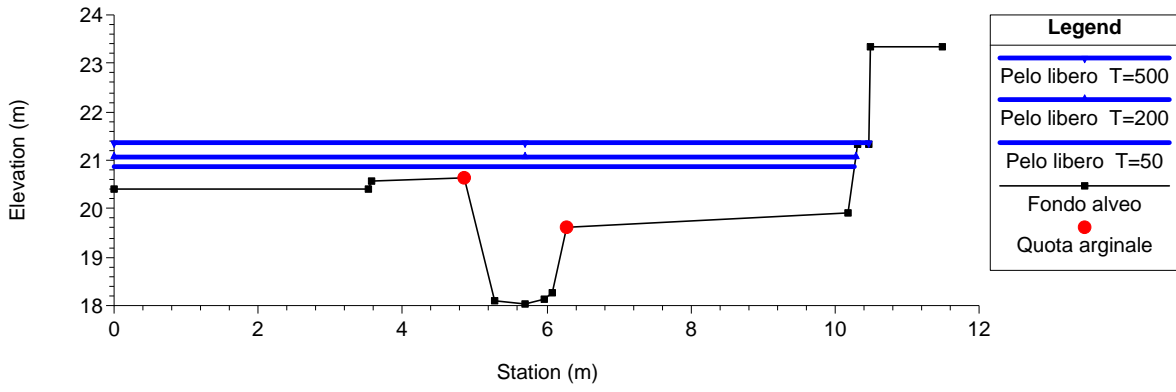
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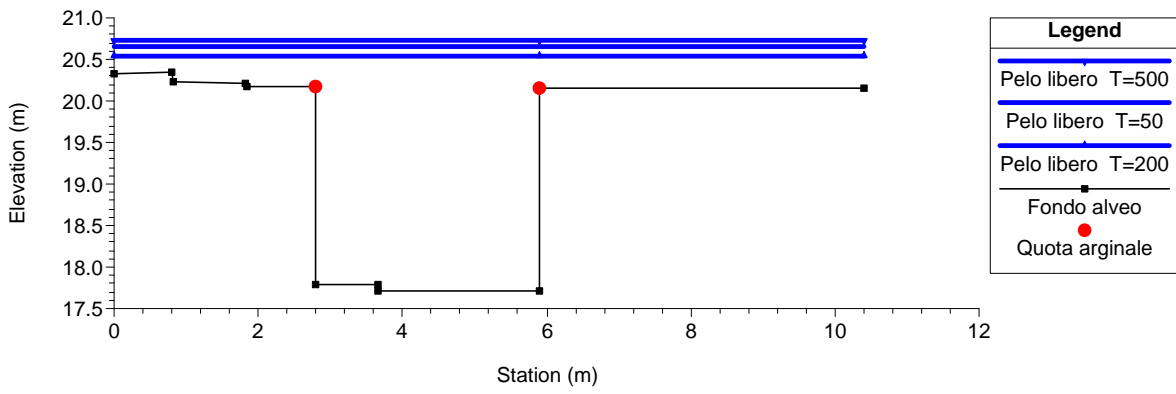
RS = 36



RS = 35



RS = 34



**MODELLAZIONE IDRAULICA IN CONDIZIONI DI MOTO
PERMANENTE:
TABELLE DELLE GRANDEZZE IDRAULICHE SIGNIFICATIVE
PER LE PORTATE T=50, 200, 500 ANNI**

NOLI - monte

Torrente Noli - monte T=50 anni										
Sezioni	Portata totale (m3/s)	Fondo alveo (m)	Argine sinistro (m)	Argine destro (m)	Pelo libero (m)	Profondità critica (m)	Energia (m2)	Velocità (m/s)	Area bagnata (m2)	N° Froude
56	30	62.1	63.18	63.23	63.88	63.75	64.33	3.12	10.56	0.77
55	30	61.87	63.06	63.06	63.86	63.67	64.26	2.95	11.46	0.69
54.5	Bridge									
54	30	61.87	63.06	63.06	63.59	63.67	64.23	3.7	9	0.94
53	30	58.43	60.38	61.53	59.34	60.02	61.92	7.12	4.22	2.68
52	30	47.7	49.07	48.99	49.19	49.77	51.21	6.34	4.92	1.91
51	30	46.5	49.07	48.99	48.05	48.94	51.01	7.63	3.93	2.23
50	30	46.45	47.49	47.41	47.99	48.68	50.41	7.15	4.53	2.14
49.5	Bridge									
49	30	46.45	47.49	47.41	48.22	48.68	49.77	5.76	5.7	1.57
48	30	28.34	29.85	29.87	29.71	30.37	31.85	6.72	4.86	1.91
47	30	26.75	27.83	27.82	28.25	28.67	29.71	5.92	6	1.68
46	30	26.63	27.73	30.66	28.58	28.21	28.86	2.49	13	0.59
45	30	25.32	28.16	27.71	27.82	27.38	28.47	3.57	8.4	0.74
44	30	24.01	24.24	25.55	25.5	26.02	27.1	5.4	5.36	1.44
43	30	23.42	24.07	24.22	26.23	25.23	26.46	2.35	14.67	0.47
42	30	23.39	24.78	26.02	26.24	25.39	26.43	2	16.23	0.41
41.5	Bridge									
41	30	23.39	24.78	26.02	26.04	25.39	26.27	2.23	14.43	0.48
40	30	22.7	26.1	23.29	24.35	24.73	25.72	4.71	5.82	1.25
39	30	21.85	23.8	22.14	23.25	23.57	24.44	4.09	6.26	1.12
38	30	20.4	21.2	21.03	22.74	22.27	23.01	2.64	13.35	0.57
37	30	20.25	20.88	20.78	22.2	22.2	22.7	3.53	9.93	0.82
36	30	19.46	20.15	19.95	21.55	21.21	21.93	2.93	11.32	0.66
35	30	18.02	20.63	19.63	20.86	20.94	21.43	3.1	9.43	0.66
34	30	17.71	20.17	20.16	20.65	19.85	21	2.79	12.4	0.52

Torrente Noli - monte T=200 anni										
Sezioni	Portata totale (m3/s)	Fondo alveo (m)	Argine sinistro (m)	Argine destro (m)	Pelo libero (m)	Profondità critica (m)	Energia (m2)	Velocità (m/s)	Area bagnata (m2)	N° Froude
56	40	62.1	63.18	63.23	64.09	64	64.68	3.57	12.41	0.83
55	40	61.87	63.06	63.06	64.08	63.91	64.6	3.4	13.35	0.75
54.5	Bridge									
54	40	61.87	63.06	63.06	63.85	63.91	64.57	3.97	11.34	0.93
53	40	58.43	60.38	61.53	59.51	60.3	62.44	7.58	5.28	2.63
52	40	47.7	49.07	48.99	49.37	50.05	51.78	7.03	6.12	1.96
51	40	46.5	49.07	48.99	48.37	49.48	51.6	7.97	5.02	2.15
50	40	46.45	47.49	47.41	48.19	48.97	51.08	7.86	5.56	2.16
49.5	Bridge									
49	40	46.45	47.49	47.41	48.41	48.97	50.42	6.6	6.71	1.69
48	40	28.34	29.85	29.87	29.92	30.6	32.35	7.25	6.09	1.92
47	40	26.75	27.83	27.82	28.42	28.92	30.13	6.43	7.33	1.71
46	40	26.63	27.73	30.66	29.07	28.43	29.35	2.44	17.4	0.52
45	40	25.32	28.16	27.71	28.06	27.79	29.01	4.33	9.24	0.86
44	40	24.01	24.24	25.55	25.79	26.33	27.64	5.9	6.77	1.44
43	40	23.42	24.07	24.22	26.52	25.51	26.85	2.8	16.87	0.53
42	40	23.39	24.78	26.02	26.56	25.64	26.8	2.29	19.08	0.44
41.5	Bridge									
41	40	23.39	24.78	26.02	26.34	25.64	26.63	2.54	17.12	0.51
40	40	22.7	26.1	23.29	24.66	25.11	26.14	4.58	7.55	1.12
39	40	21.85	23.8	22.14	23.45	23.87	24.94	4.32	7.52	1.11
38	40	20.4	21.2	21.03	23.07	22.62	23.38	2.86	16.84	0.58
37	40	20.25	20.88	20.78	22.41	22.41	23.01	3.88	12.24	0.86
36	40	19.46	20.15	19.95	21.92	21.46	22.36	3.23	13.96	0.67
35	40	18.02	20.63	19.63	21.06	21.14	21.73	3.28	11.52	0.67
34	40	17.71	20.17	20.16	20.53	20.7	21.31	4.09	11.17	0.78

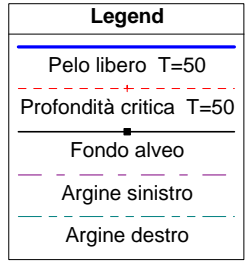
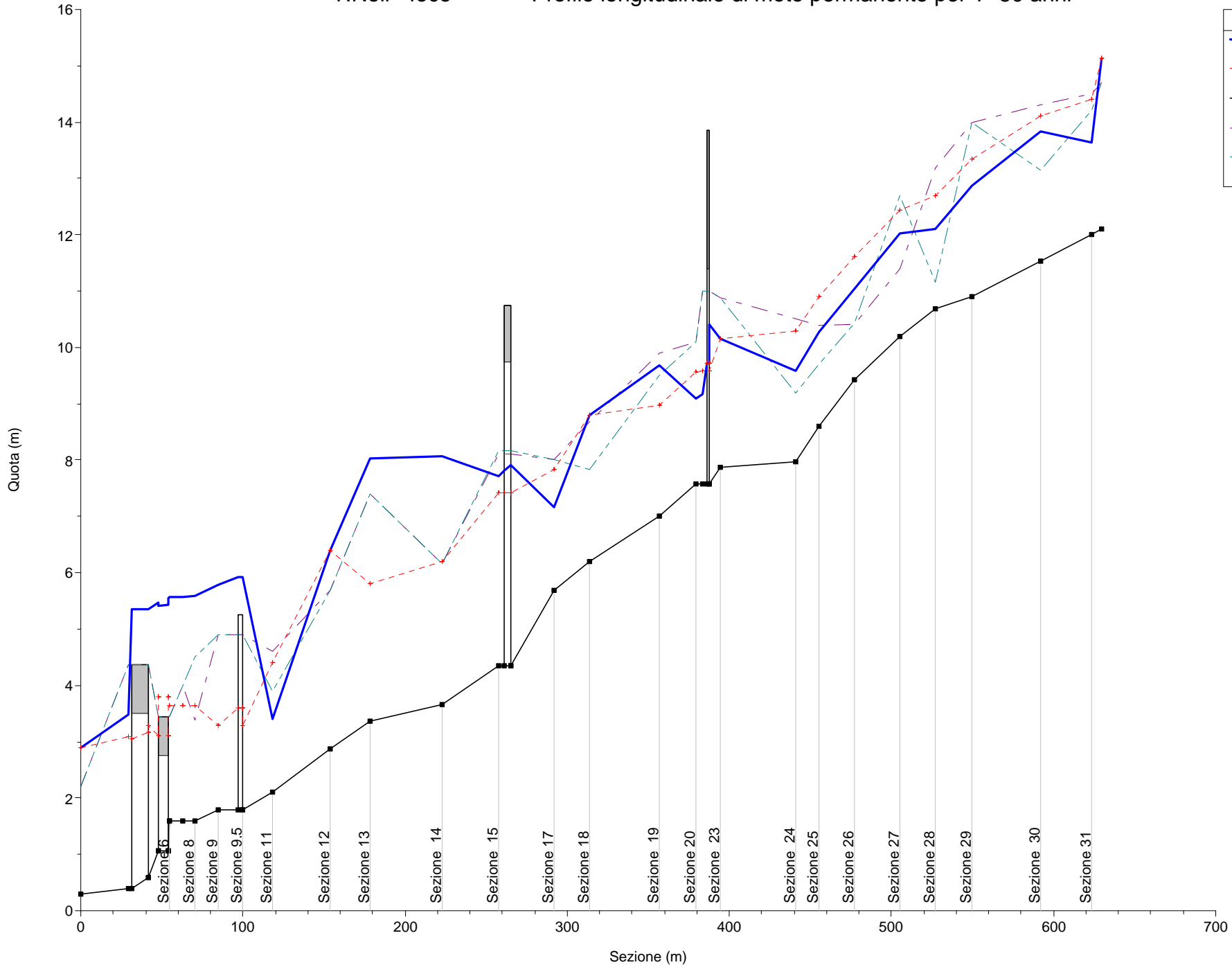
Torrente Noli - monte T=500 anni										
Sezioni	Portata totale (m3/s)	Fondo alveo (m)	Argine sinistro (m)	Argine destro (m)	Pelo libero (m)	Profondità critica (m)	Energia (m2)	Velocità (m/s)	Area bagnata (m2)	N° Froude
56	50	62.1	63.18	63.23	64.48	64.23	65.04	3.52	15.97	0.75
55	50	61.87	63.06	63.06	64.47	64.12	64.97	3.4	16.89	0.69
54.5	Bridge									
54	50	61.87	63.06	63.06	64.12	64.12	64.88	4.13	13.77	0.9
53	50	58.43	60.38	61.53	59.67	60.61	62.88	7.93	6.31	2.59
52	50	47.7	49.07	48.99	49.53	50.3	52.28	7.58	7.21	2
51	50	46.5	49.07	48.99	48.65	49.76	52.11	8.24	6.07	2.09
50	50	46.45	47.49	47.41	48.39	49.42	51.65	8.42	6.56	2.17
49.5	Bridge									
49	50	46.45	47.49	47.41	48.6	49.42	50.99	7.26	7.71	1.75
48	50	28.34	29.85	29.87	30.07	30.8	32.82	7.8	7.3	1.97
47	50	26.75	27.83	27.82	28.59	29.15	30.51	6.87	8.56	1.73
46	50	26.63	27.73	30.66	29.58	28.63	29.85	2.39	21.97	0.46
45	50	25.32	28.16	27.71	28.3	28.18	29.54	4.94	10.2	0.94
44	50	24.01	24.24	25.55	26.02	26.61	28.1	6.42	7.99	1.47
43	50	23.42	24.07	24.22	26.74	25.79	27.21	3.35	18.69	0.61
42	50	23.39	24.78	26.02	26.83	25.87	27.13	2.56	21.56	0.47
41.5	Bridge									
41	50	23.39	24.78	26.02	26.6	25.87	26.96	2.82	19.44	0.54
40	50	22.7	26.1	23.29	24.95	25.36	26.48	4.81	9.23	1.11
39	50	21.85	23.8	22.14	23.66	24.14	25.37	4.41	8.84	1.06
38	50	20.4	21.2	21.03	23.26	22.8	23.64	3.23	18.84	0.63
37	50	20.25	20.88	20.78	22.63	22.7	23.29	4.13	14.53	0.87
36	50	19.46	20.15	19.95	22.3	21.7	22.74	3.73	18.6	0.72
35	50	18.02	20.63	19.63	21.38	21.34	21.99	3.09	14.78	0.59
34	50	17.71	20.17	20.16	20.73	20.89	21.57	4.35	13.26	0.8

**PROFILI DI RIGURGITO IN CONDIZIONI DI MOTO
PERMANENTE PER LE PORTATE T=50, 200, 500 ANNI**

NOLI - valle

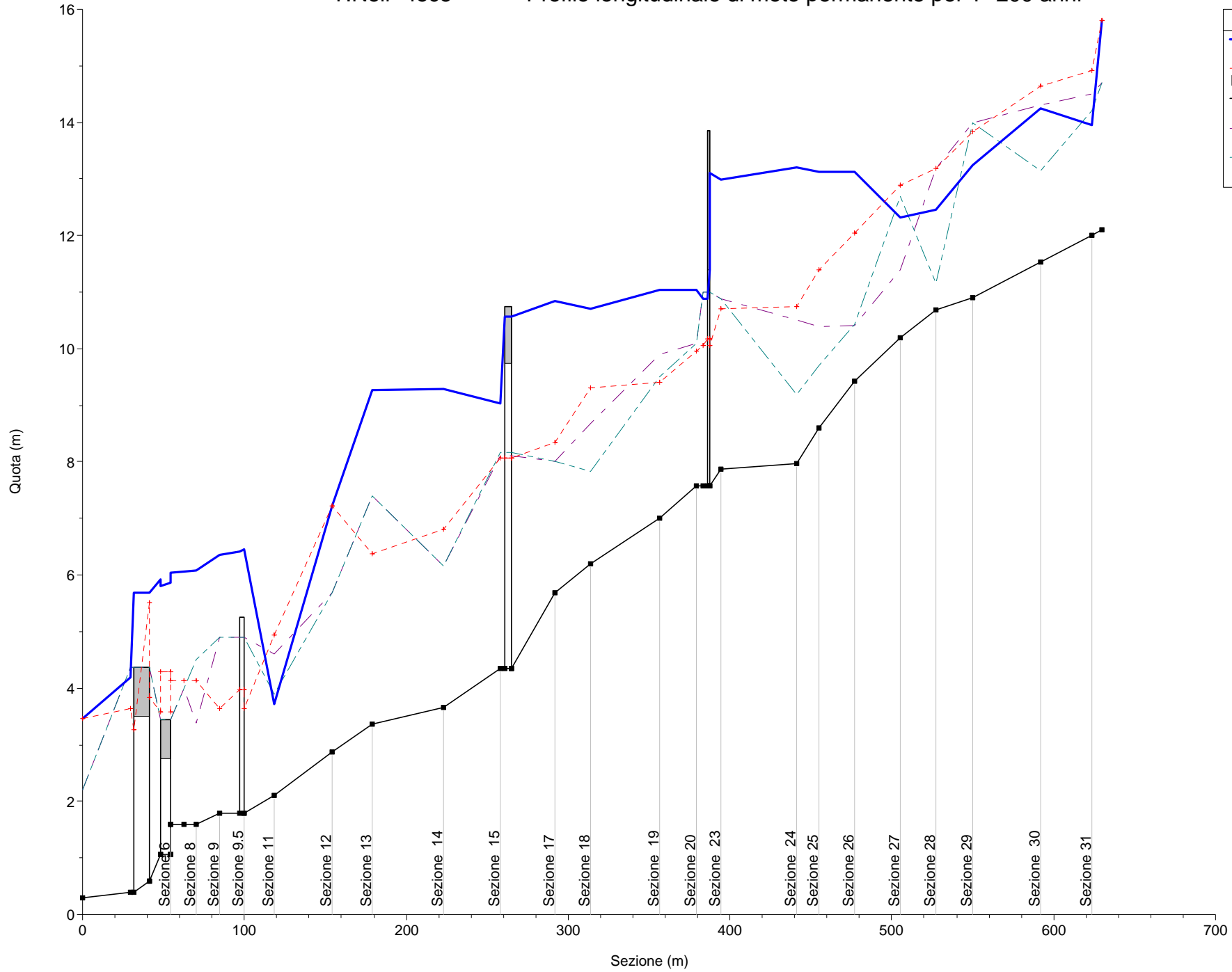
T.Noli - foce

Profilo longitudinale di moto permanente per T=50 anni



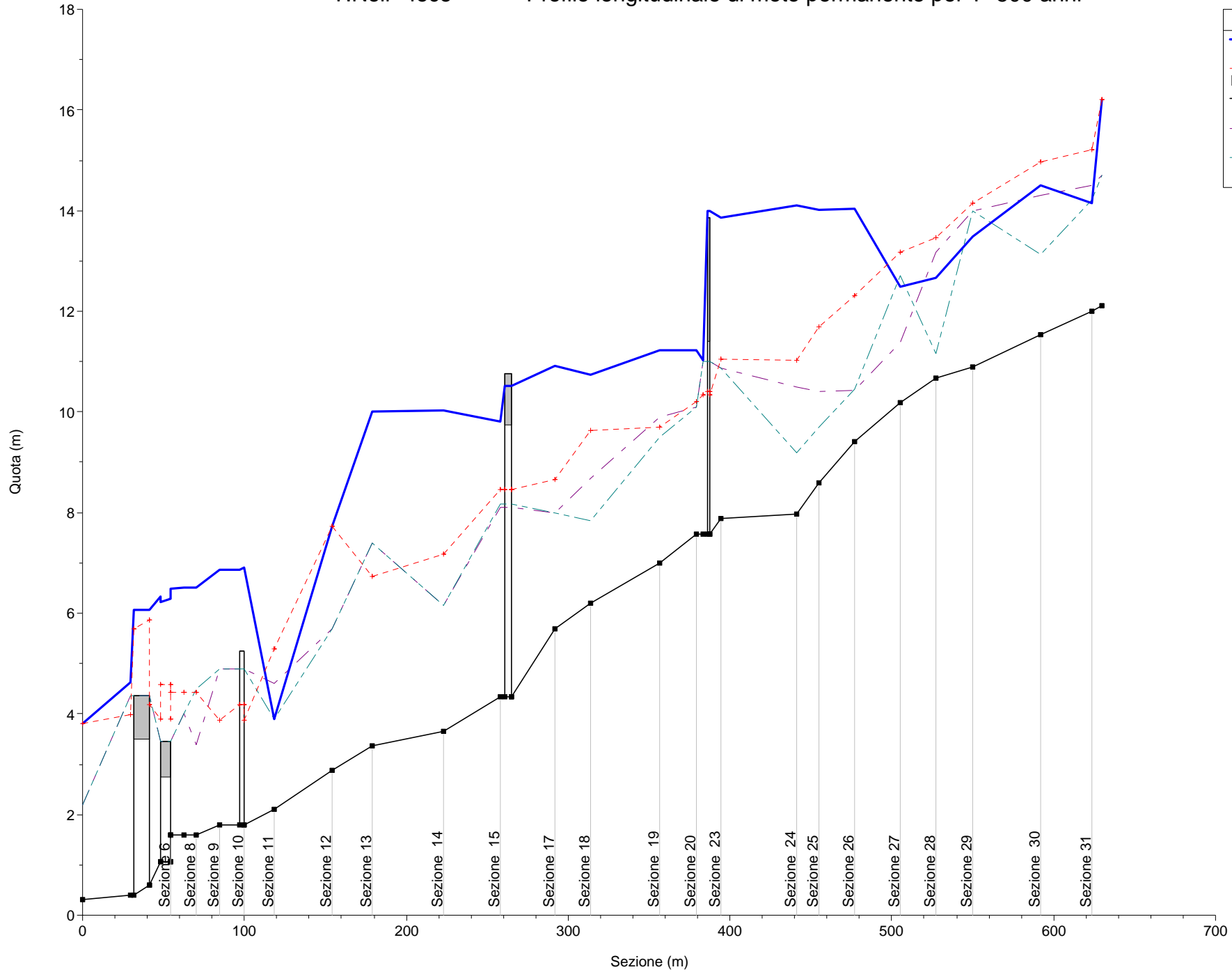
T.Noli - foce

Profilo longitudinale di moto permanente per T=200 anni



T.Noli - foce

Profilo longitudinale di moto permanente per T=500 anni



Legend	
	Pelo libero T=500
	Profondità critica T=500
	Fondo alveo
	Argine sinistro
	Argine destro

GEOMETRIA DELLE SEZIONI ED ALTEZZA DEL PELO
LIBERO IN CONDIZIONI DI MOTO PERMANENTE
PER LE PORTATE T=50, 200, 500 ANNI

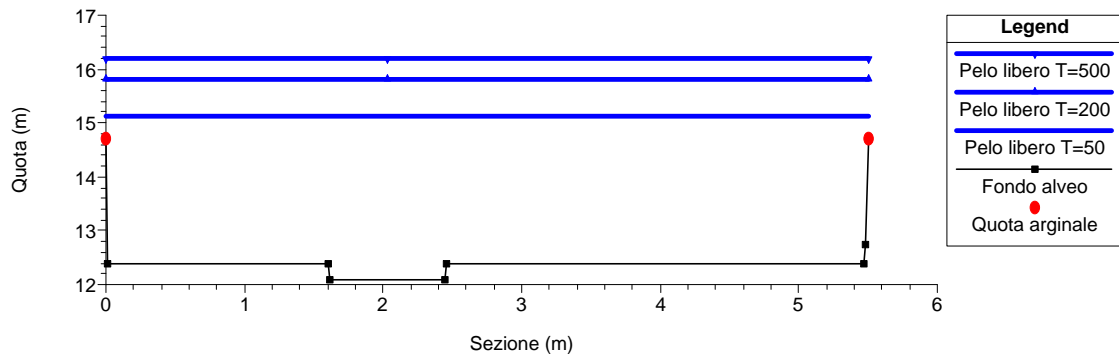
NOLI - valle

DALLA SEZ. 32
ALLA SEZ. 1

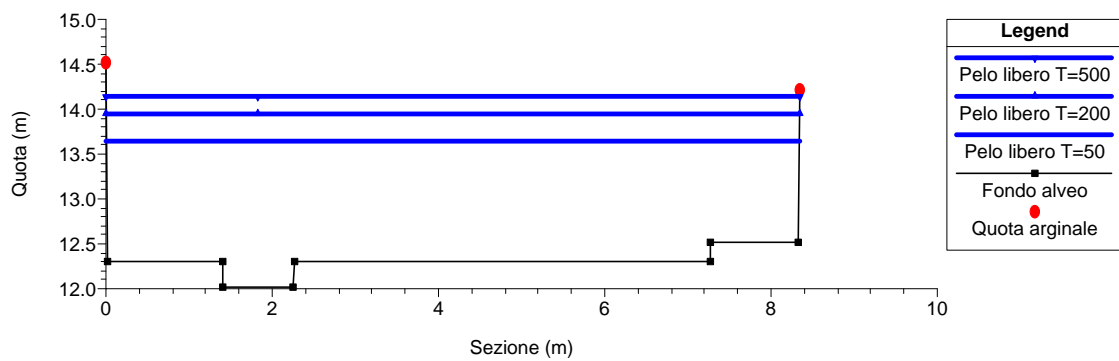
T. NOLI - foce

Sezioni trasversali

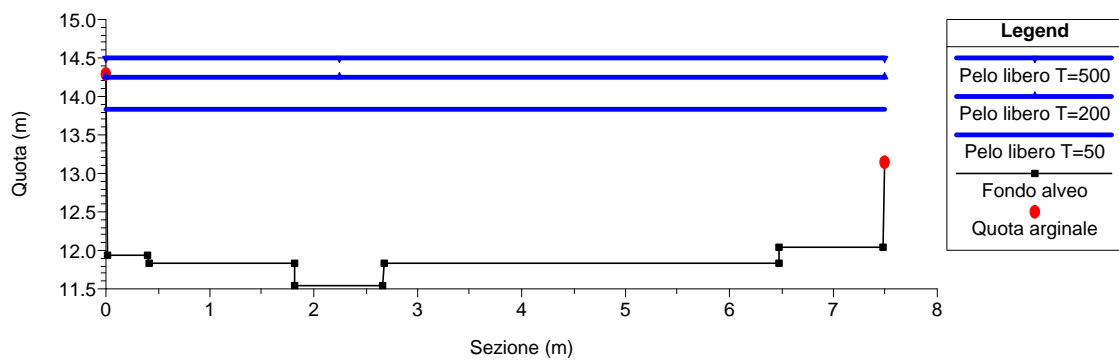
Sezione 32



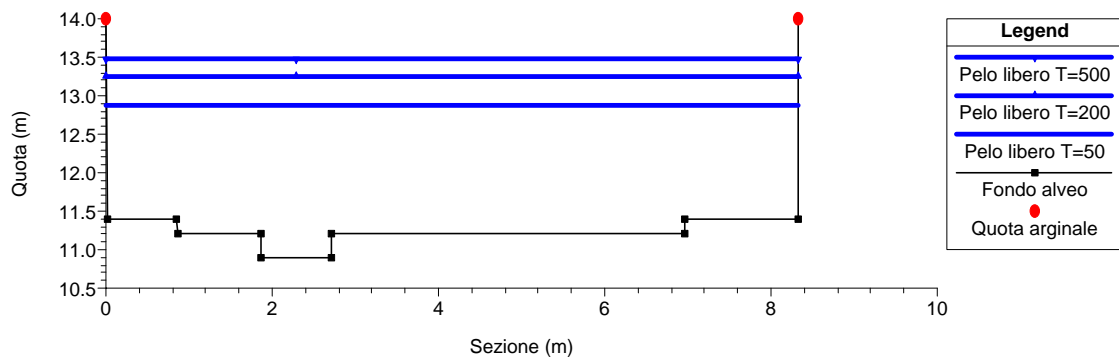
Sezione 31



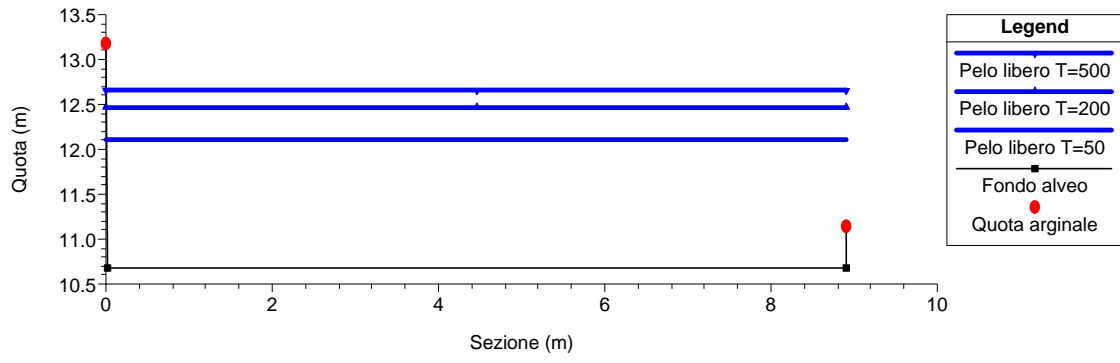
Sezione 30



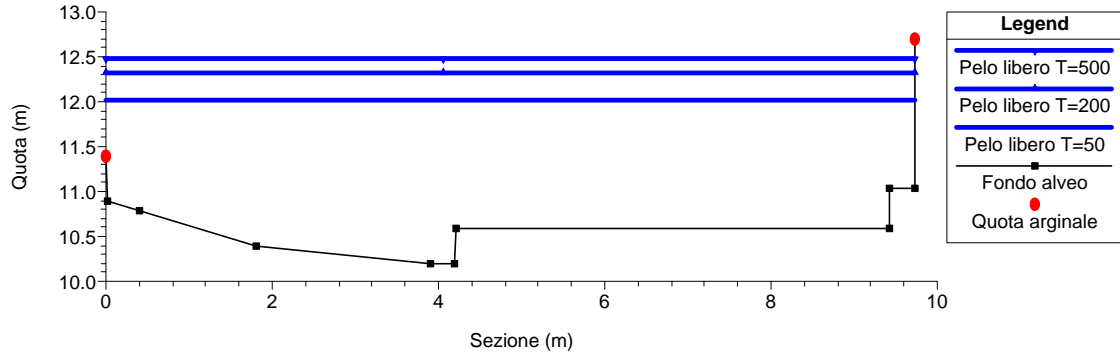
Sezione 29



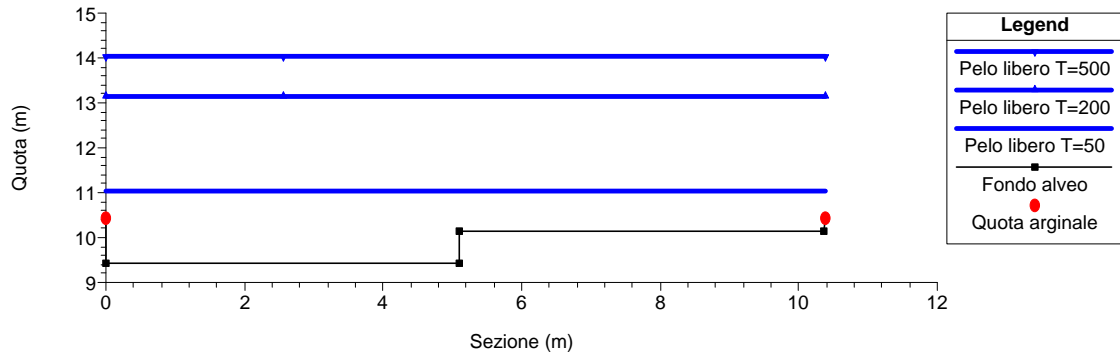
Sezione 28



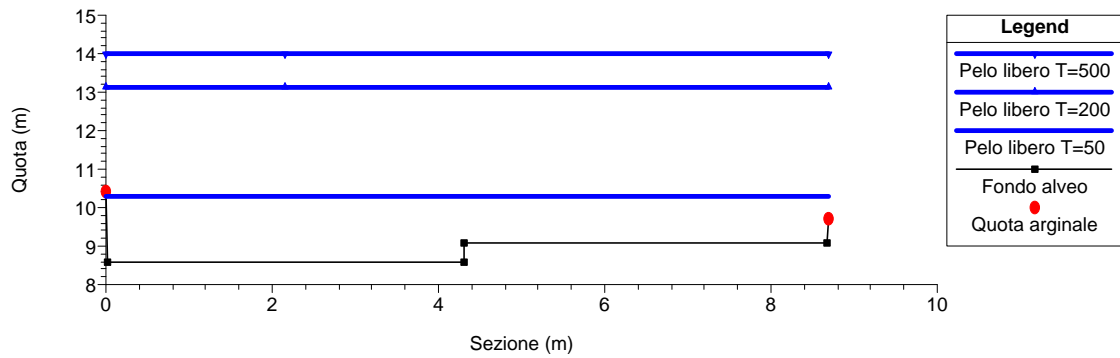
Sezione 27



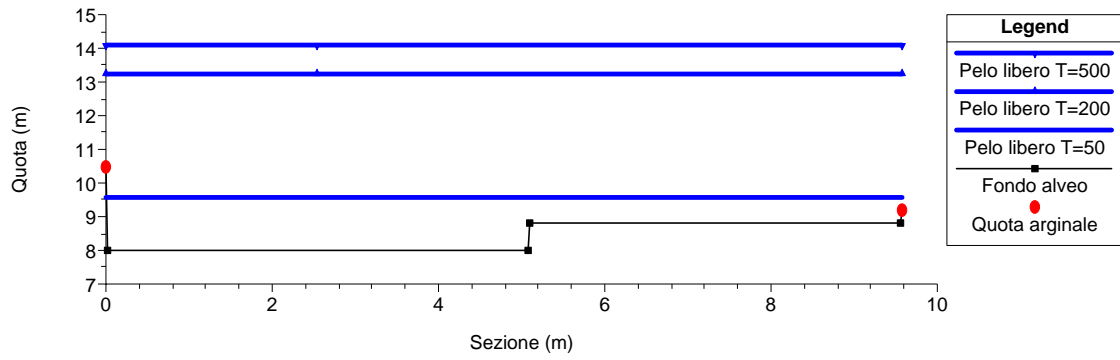
Sezione 26



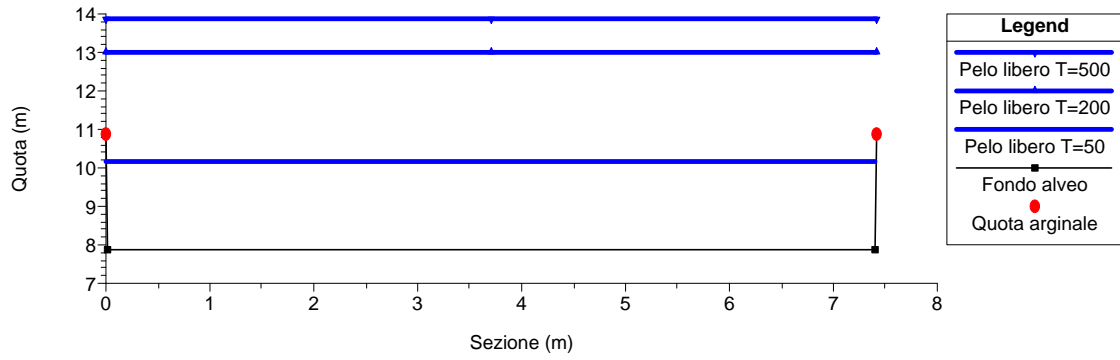
Sezione 25



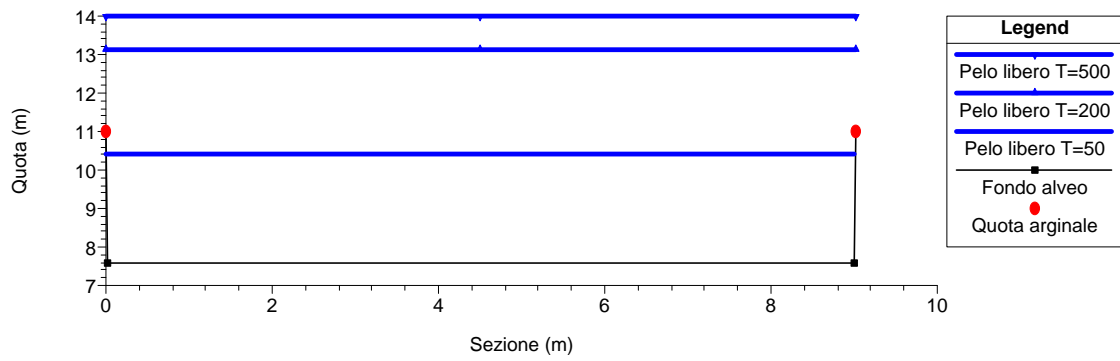
Sezione 24



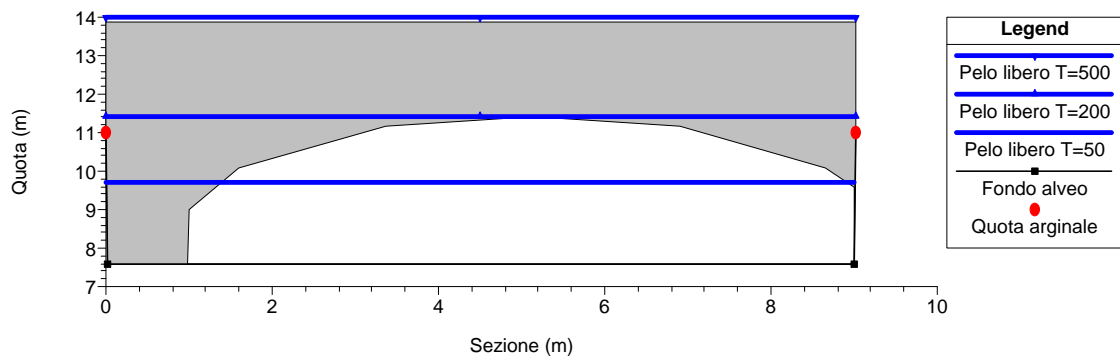
Sezione 23



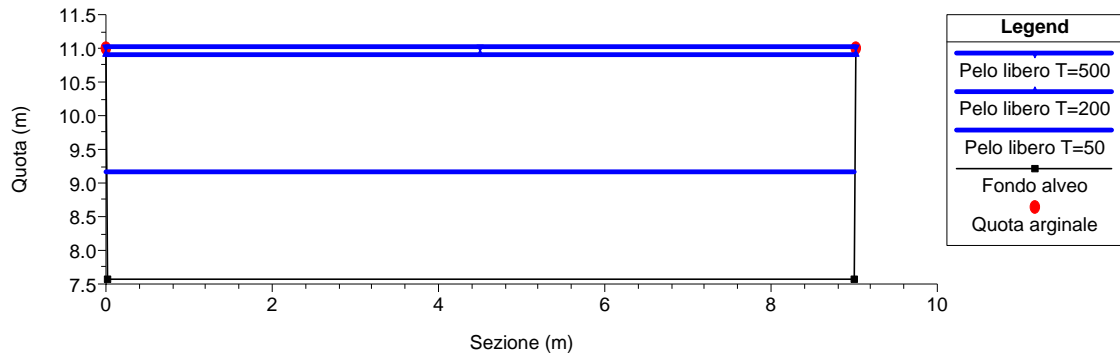
Sezione 22



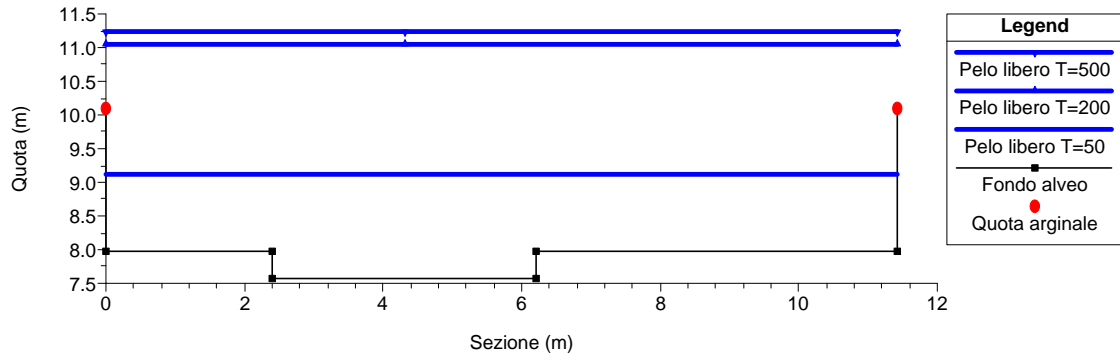
Sezione 21.5



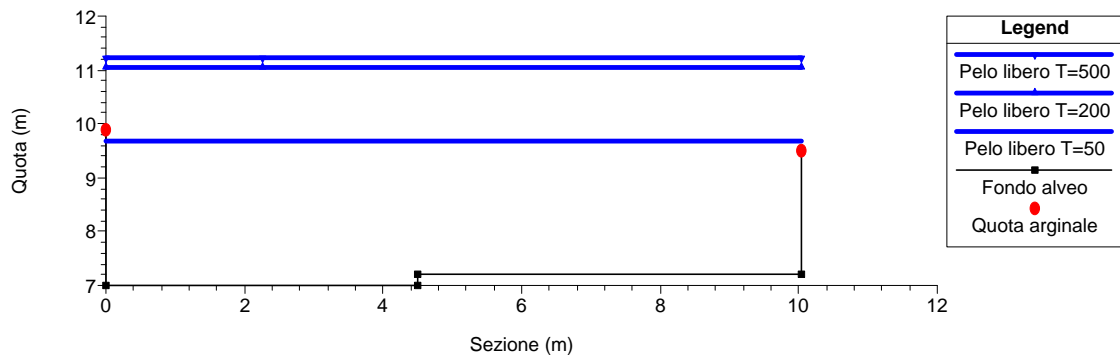
Sezione 21



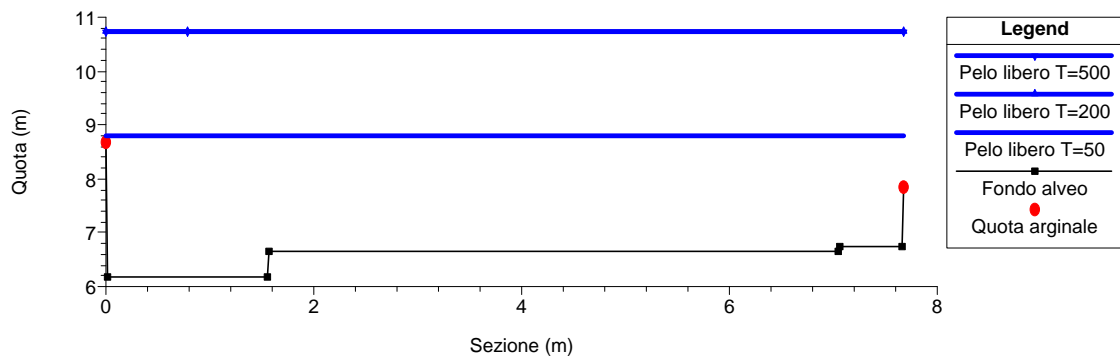
Sezione 20



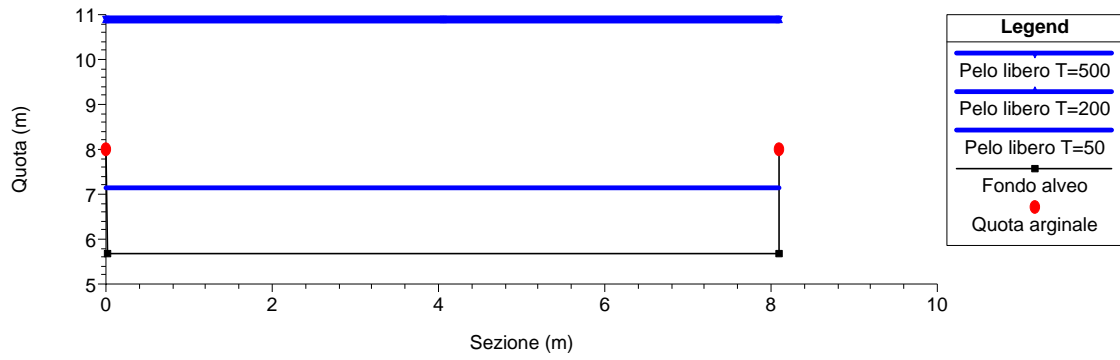
Sezione 19



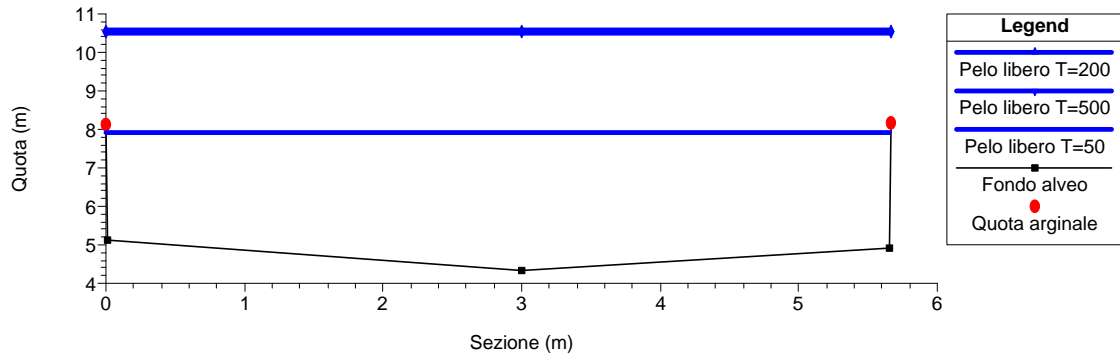
Sezione 18



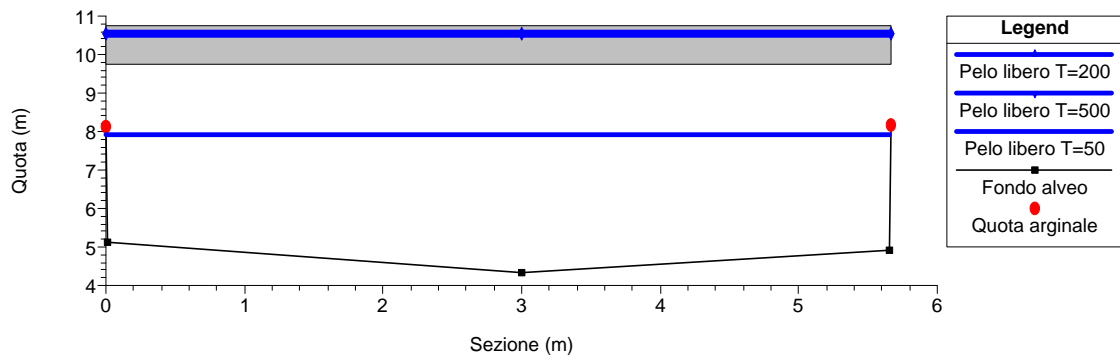
Sezione 17



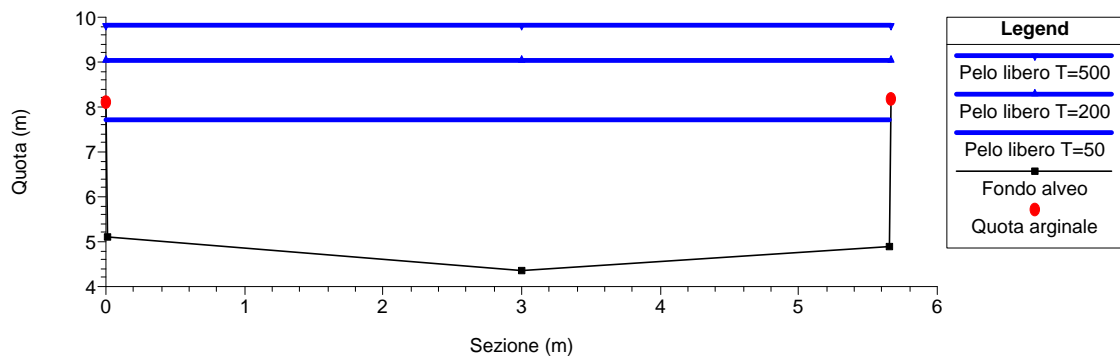
Sezione 16



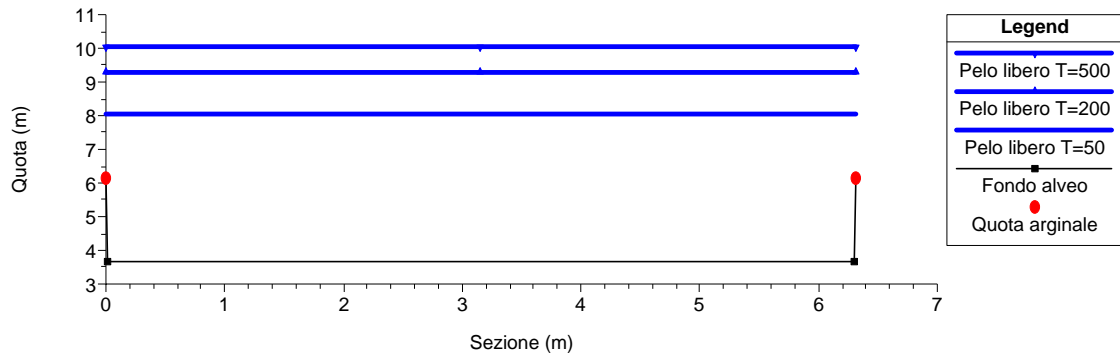
Sezione 15.5



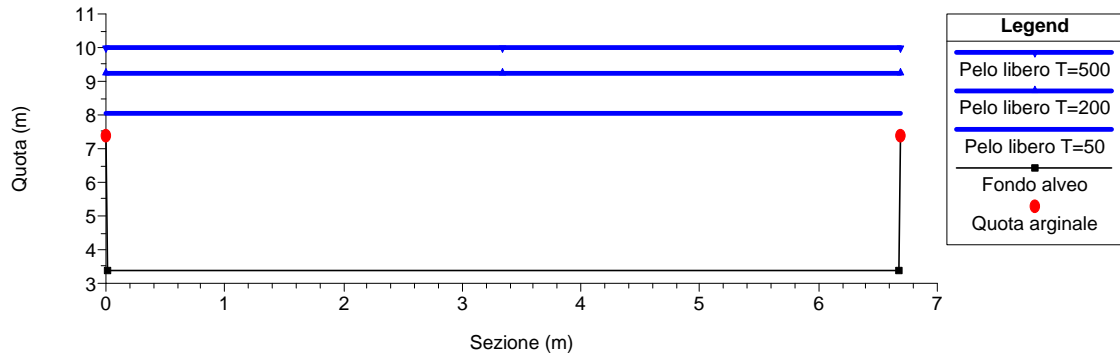
Sezione 15



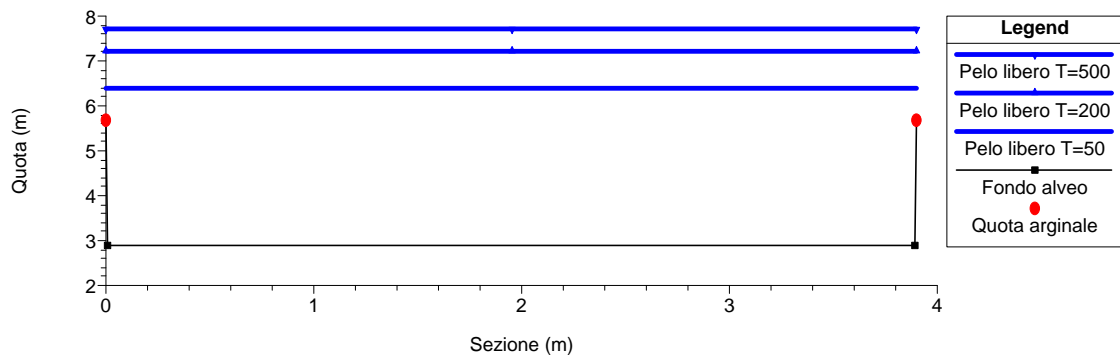
Sezione 14



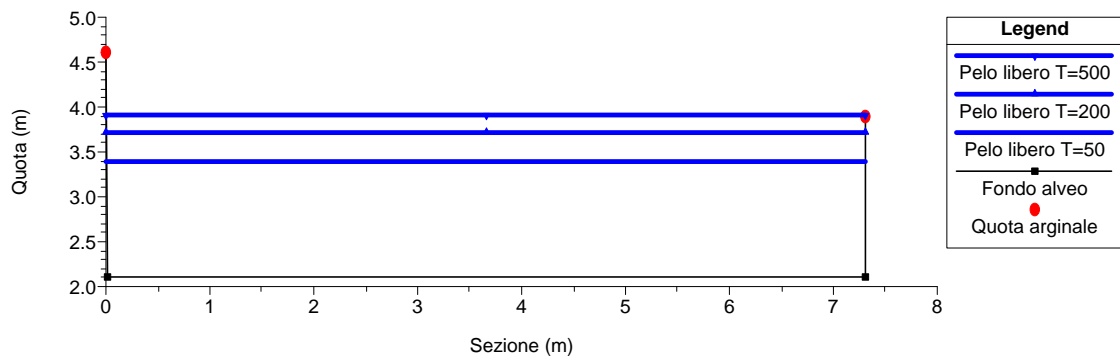
Sezione 13



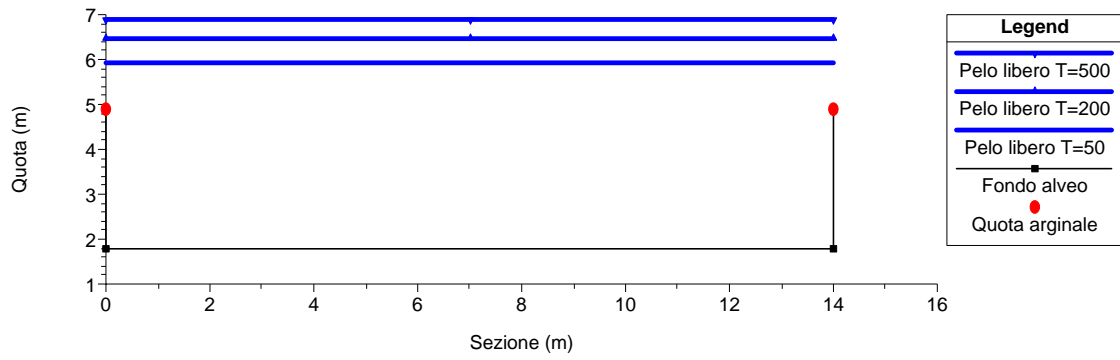
Sezione 12



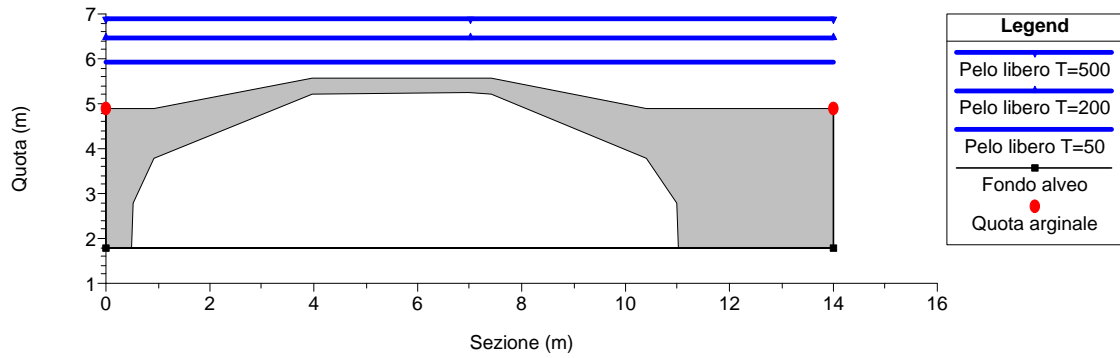
Sezione 11



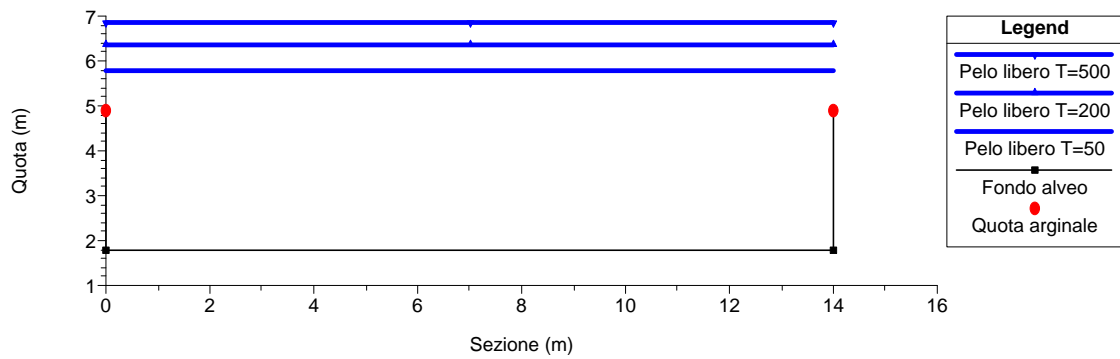
Sezione 10



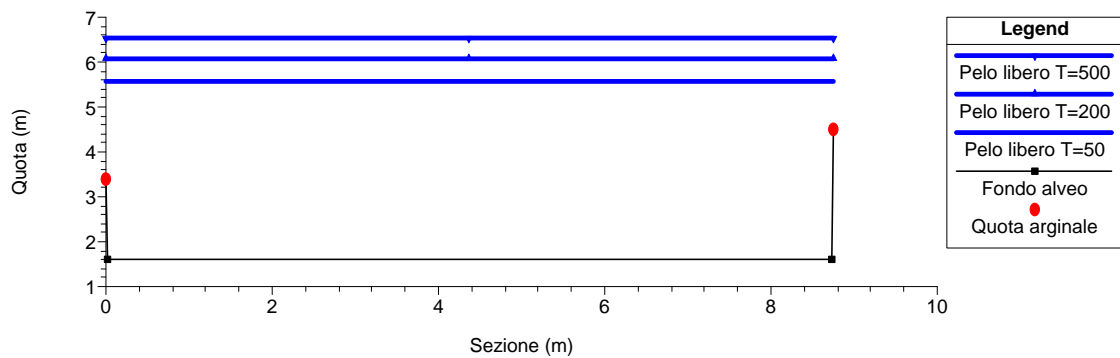
Sezione 9.5



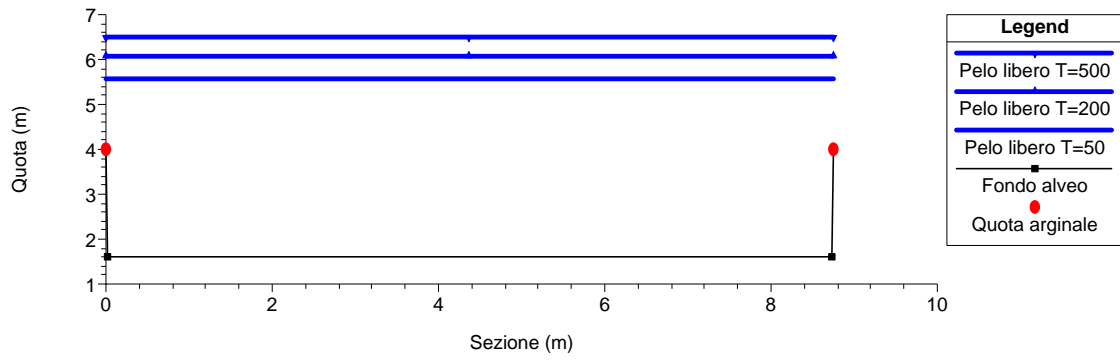
Sezione 9



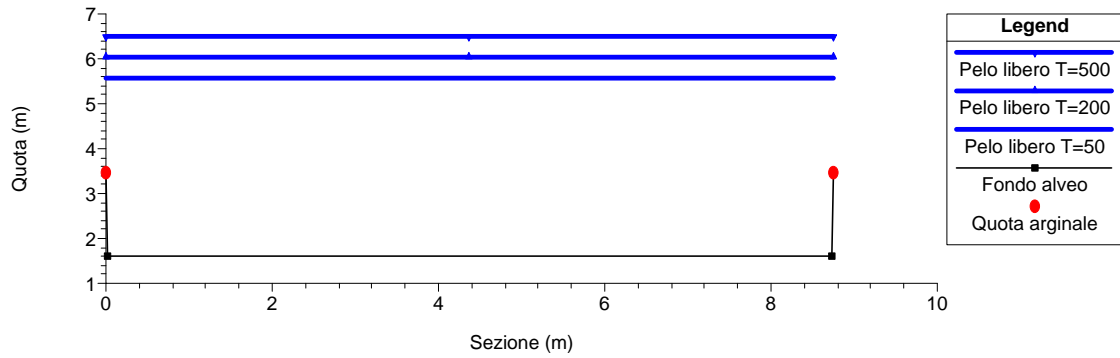
Sezione 8



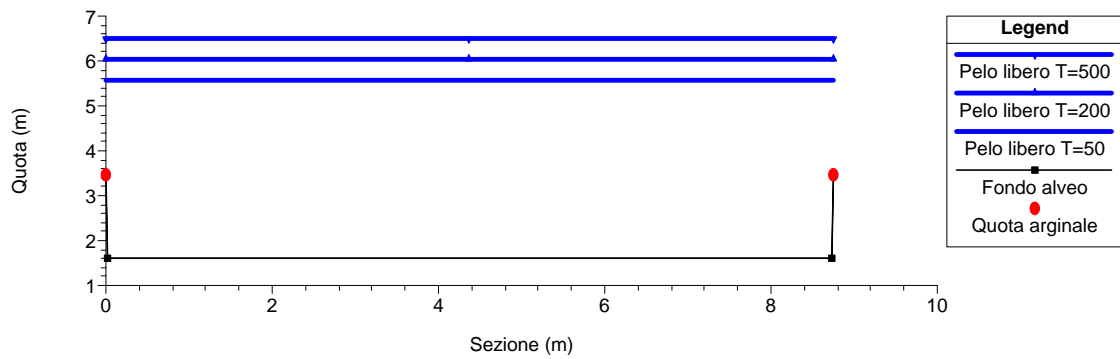
Sezione 7



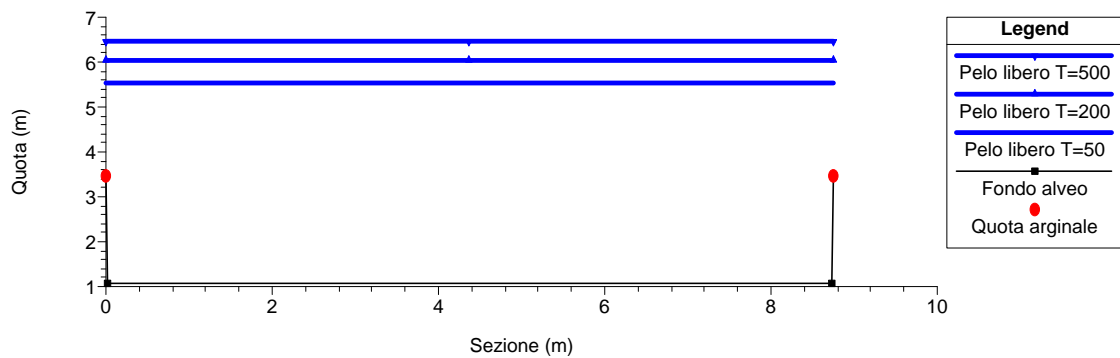
Sezione 6



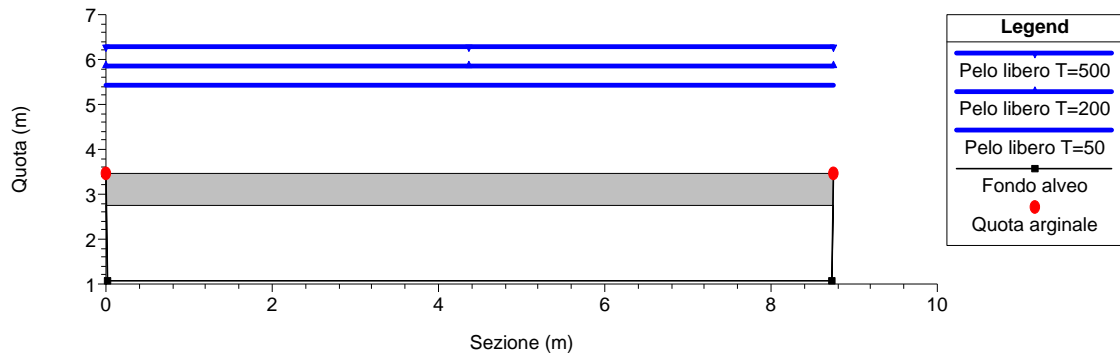
Sezione 5.5



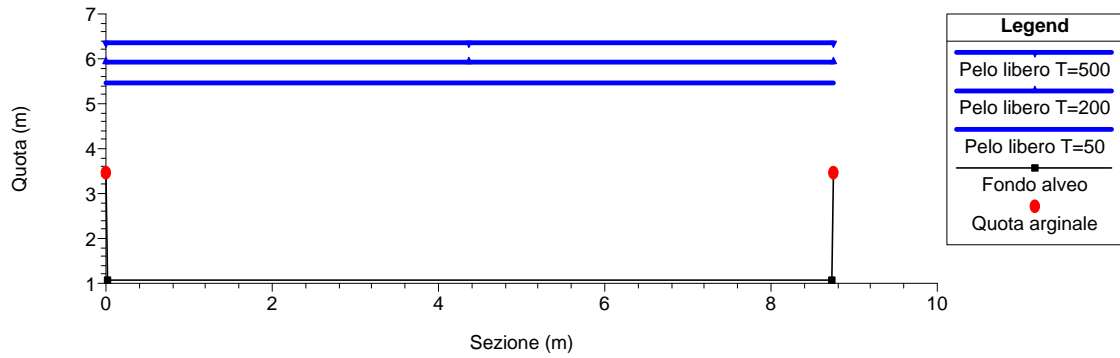
Sezione 5



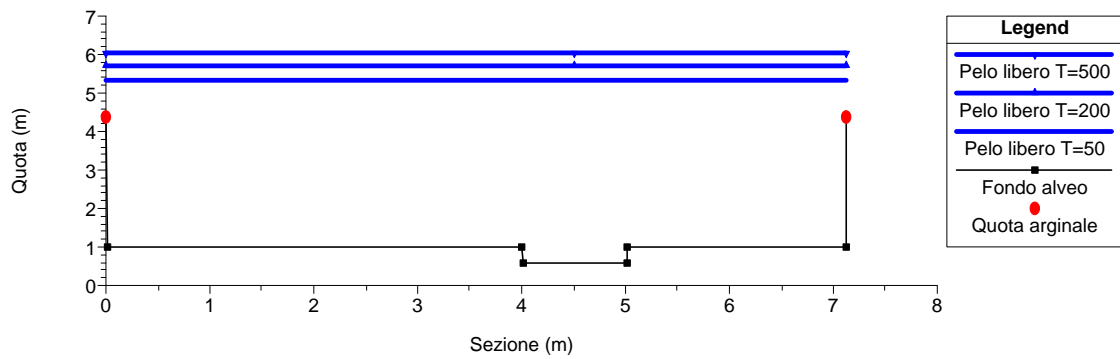
Sezione 4.5



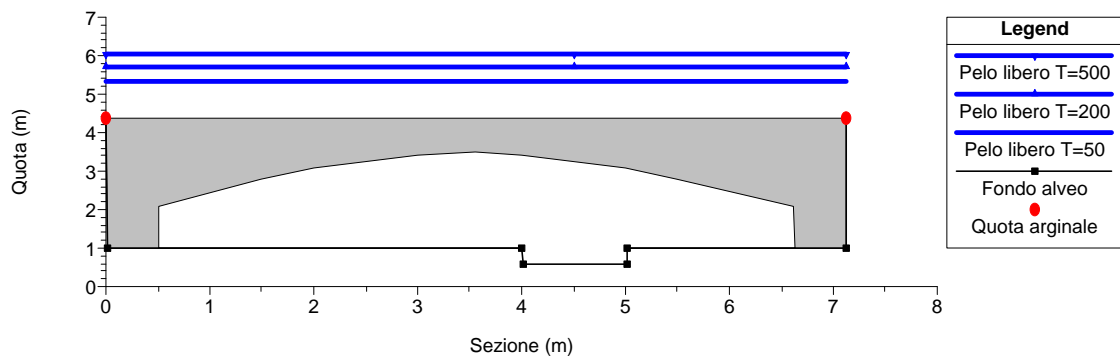
Sezione 4



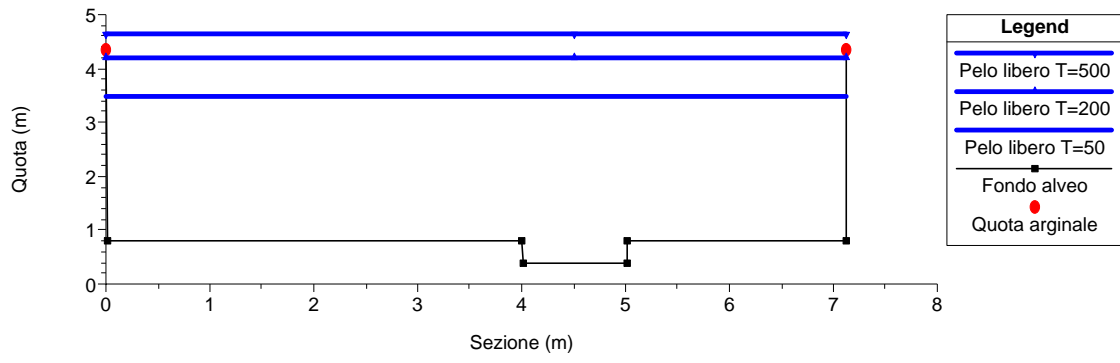
Sezione 3



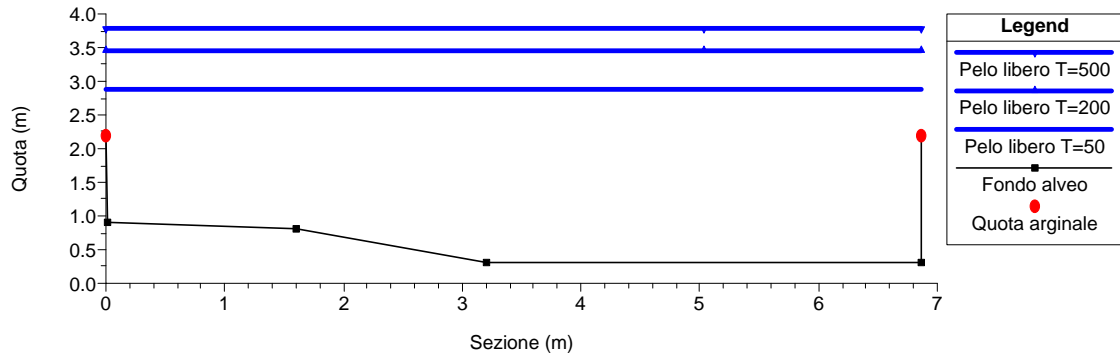
Sezione 2.5



Sezione 2



Sezione 1



**MODELLAZIONE IDRAULICA IN CONDIZIONI DI MOTO
PERMANENTE:
TABELLE DELLE GRANDEZZE IDRAULICHE SIGNIFICATIVE
PER LE PORTATE T=50, 200, 500 ANNI**

NOLI - valle

Torrente Noli - foce T=50 anni										
Sezioni	Portata totale (m3/s)	Fondo alveo (m)	Argine sinistro (m)	Argine destro (m)	Pelo libero (m)	Profondità critica (m)	Energia (m2)	Velocità (m/s)	Area bagnata (m2)	N° Froude
32	80	12.1	14.7	14.7	15.14	15.14	16.54	5.23	15.3	1
31	80	12.01	14.51	14.21	13.64	14.41	16.29	7.22	11.08	2
30	80	11.54	14.3	13.14	13.84	14.11	15.29	5.35	14.96	1.21
29	80	10.9	14	14	12.87	13.34	14.61	5.85	13.68	1.46
28	80	10.68	13.18	11.15	12.11	12.7	14.12	6.29	12.72	1.68
27	80	10.19	11.39	12.7	12.02	12.44	13.58	5.53	14.47	1.45
26	80	9.42	10.42	10.44	11.03	11.61	12.98	6.17	12.96	1.76
25	80	8.6	10.4	9.7	10.28	10.91	12.4	6.46	12.39	1.73
24	80	7.98	10.5	9.19	9.58	10.29	11.97	6.85	11.68	1.98
23	80	7.88	10.88	10.88	10.16	10.16	11.31	4.74	16.89	1
22	80	7.58	11	11	10.41	9.59	10.91	3.14	25.47	0.6
	Bridge									
21	80	7.58	11	11	9.16	9.59	10.77	5.61	14.25	1.42
20	80	7.58	10.1	10.1	9.1	9.56	10.69	5.59	14.32	1.59
19	80	7	9.9	9.5	9.69	8.98	10.18	3.09	25.86	0.62
18	80	6.19	8.68	7.84	8.79	8.79	9.9	4.68	17.09	1
17	80	5.69	8	8	7.16	7.84	9.47	6.73	11.88	1.77
16	80	4.34	8.11	8.17	7.91	7.41	8.89	4.38	18.27	0.78
	Bridge									
15	80	4.34	8.11	8.17	7.72	7.41	8.83	4.65	17.19	0.85
14	80	3.66	6.16	6.16	8.06	6.21	8.49	2.88	27.76	0.44
13	80	3.36	7.4	7.4	8.04	5.81	8.37	2.56	31.26	0.38
12	80	2.88	5.68	5.68	6.39	6.39	8.14	5.86	13.65	1
11	80	2.1	4.6	3.9	3.4	4.41	7.03	8.45	9.47	2.37
10	80	1.8	4.9	4.9	5.92	3.29	6.02	1.39	57.71	0.22
	Bridge									
9	80	1.8	4.9	4.9	5.78	3.29	5.88	1.44	55.69	0.23
8	80	1.6	3.38	4.5	5.59	3.64	5.86	2.29	34.88	0.37
7	80	1.6	4	4	5.58	3.65	5.85	2.3	34.79	0.37
6	80	1.6	3.45	3.45	5.57	3.64	5.84	2.31	34.69	0.37
	Inl Struct									
5	80	1.06	3.45	3.45	5.55	3.11	5.76	2.04	39.28	0.31
	Bridge									
4	80	1.06	3.45	3.45	5.48	3.11	5.7	2.07	38.63	0.31
3	80	0.6	4.36	4.36	5.34	3.29	5.68	2.55	31.34	0.39
	Bridge									
2	80	0.4	4.36	4.36	3.49	3.09	4.34	4.09	19.55	0.79
1	80	0.3	2.2	2.2	2.89	2.89	4.09	4.86	16.48	1

Torrente Noli - foce T=200 anni										
Sezioni	Portata totale (m3/s)	Fondo alveo (m)	Argine sinistro (m)	Argine destro (m)	Pelo libero (m)	Profondità critica (m)	Energia (m2)	Velocità (m/s)	Area bagnata (m2)	N° Froude
32	110	12.1	14.7	14.7	15.8	15.8	17.52	5.82	18.9	1
31	110	12.01	14.51	14.21	13.95	14.92	17.24	8.04	13.68	2
30	110	11.54	14.3	13.14	14.25	14.64	16.14	6.09	18.05	1.25
29	110	10.9	14	14	13.25	13.84	15.42	6.52	16.87	1.46
28	110	10.68	13.18	11.15	12.45	13.18	14.93	6.96	15.79	1.67
27	110	10.19	11.39	12.7	12.31	12.89	14.38	6.36	17.29	1.52
26	110	9.42	10.42	10.44	13.13	12.04	13.64	3.17	34.69	0.55
25	110	8.6	10.4	9.7	13.12	11.39	13.57	2.97	37.1	0.46
24	110	7.98	10.5	9.19	13.21	10.74	13.5	2.37	46.45	0.34
23	110	7.88	10.88	10.88	12.99	10.71	13.42	2.91	37.82	0.41
22	110	7.58	11	11	13.11	10.06	13.36	2.21	49.76	0.3
	Bridge									
21	110	7.58	11	11	10.89	10.06	11.58	3.69	29.79	0.65
20	110	7.58	10.1	10.1	11.04	9.96	11.5	3.02	36.47	0.54
19	110	7	9.9	9.5	11.04	9.42	11.44	2.79	39.45	0.45
18	110	6.19	8.68	7.84	10.71	9.32	11.32	3.45	31.86	0.54
17	110	5.69	8	8	10.84	8.35	11.2	2.64	41.73	0.37
16	110	4.34	8.11	8.17	10.57	8.06	11.13	3.3	33.31	0.43
	Bridge									
15	110	4.34	8.11	8.17	9.04	8.06	10.05	4.46	24.65	0.68
14	110	3.66	6.16	6.16	9.28	6.8	9.77	3.1	35.46	0.42
13	110	3.36	7.4	7.4	9.26	6.39	9.66	2.79	39.43	0.37
12	110	2.88	5.68	5.68	7.22	7.22	9.38	6.52	16.88	1
11	110	2.1	4.6	3.9	3.71	4.95	8.17	9.35	11.76	2.35
10	110	1.8	4.9	4.9	6.45	3.65	6.6	1.69	65.09	0.25
	Bridge									
9	110	1.8	4.9	4.9	6.37	3.65	6.52	1.72	63.94	0.26
8	110	1.6	3.38	4.5	6.08	4.13	6.48	2.81	39.15	0.42
7	110	1.6	4	4	6.06	4.13	6.47	2.82	39.02	0.43
6	110	1.6	3.45	3.45	6.04	4.13	6.45	2.83	38.87	0.43
	Inl Struct									
5	110	1.06	3.45	3.45	6.03	3.59	6.36	2.53	43.46	0.36
	Bridge									
4	110	1.06	3.45	3.45	5.92	3.59	6.26	2.59	42.48	0.38
3	110	0.6	4.36	4.36	5.69	3.84	6.23	3.26	33.79	0.48
	Bridge									
2	110	0.4	4.36	4.36	4.19	3.64	5.21	4.48	24.53	0.77
1	110	0.3	2.2	2.2	3.46	3.46	4.94	5.39	20.39	1

Torrente Noli - foce T=500 anni										
Sezioni	Portata totale (m3/s)	Fondo alveo (m)	Argine sinistro (m)	Argine destro (m)	Pelo libero (m)	Profondità critica (m)	Energia (m2)	Velocità (m/s)	Area bagnata (m2)	N° Froude
32	130	12.1	14.7	14.7	16.21	16.21	18.13	6.14	21.16	1
31	130	12.01	14.51	14.21	14.14	15.22	17.82	8.5	15.29	2
30	130	11.54	14.3	13.14	14.5	14.97	16.67	6.52	19.95	1.27
29	130	10.9	14	14	13.48	14.14	15.92	6.91	18.81	1.47
28	130	10.68	13.18	11.15	12.67	13.47	15.42	7.35	17.69	1.67
27	130	10.19	11.39	12.7	12.49	13.17	14.87	6.82	19.05	1.56
26	130	9.42	10.42	10.44	14.04	12.3	14.48	2.94	44.19	0.46
25	130	8.6	10.4	9.7	14.01	11.69	14.44	2.9	44.83	0.41
24	130	7.98	10.5	9.19	14.09	11.02	14.38	2.37	54.87	0.32
23	130	7.88	10.88	10.88	13.87	11.04	14.3	2.93	44.32	0.38
22	130	7.58	11	11	13.98	10.35	14.24	2.25	57.65	0.28
	Bridge									
21	130	7.58	11	11	11.02	10.35	11.92	4.2	30.98	0.72
20	130	7.58	10.1	10.1	11.23	10.21	11.81	3.36	38.68	0.58
19	130	7	9.9	9.5	11.23	9.69	11.73	3.15	41.33	0.49
18	130	6.19	8.68	7.84	10.73	9.64	11.57	4.06	32.03	0.63
17	130	5.69	8	8	10.93	8.66	11.4	3.07	42.38	0.43
16	130	4.34	8.11	8.17	10.51	8.46	11.3	3.94	32.97	0.52
	Bridge									
15	130	4.34	8.11	8.17	9.82	8.46	10.84	4.48	29.05	0.63
14	130	3.66	6.16	6.16	10.04	7.17	10.57	3.23	40.21	0.41
13	130	3.36	7.4	7.4	10.01	6.74	10.45	2.92	44.46	0.36
12	130	2.88	5.68	5.68	7.73	7.73	10.14	6.89	18.87	1
11	130	2.1	4.6	3.9	3.91	5.29	8.86	9.86	13.18	2.34
10	130	1.8	4.9	4.9	6.91	3.86	7.08	1.82	71.52	0.26
	Bridge									
9	130	1.8	4.9	4.9	6.86	3.86	7.03	1.84	70.79	0.26
8	130	1.6	3.38	4.5	6.52	4.42	6.98	3.02	43.03	0.43
7	130	1.6	4	4	6.5	4.43	6.97	3.03	42.88	0.44
6	130	1.6	3.45	3.45	6.48	4.43	6.96	3.04	42.71	0.44
	Inl Struct									
5	130	1.06	3.45	3.45	6.46	3.89	6.85	2.75	47.23	0.38
	Bridge									
4	130	1.06	3.45	3.45	6.34	3.89	6.74	2.82	46.18	0.39
3	130	0.6	4.36	4.36	6.06	4.18	6.71	3.57	36.43	0.5
	Bridge									
2	130	0.4	4.36	4.36	4.62	3.98	5.75	4.71	27.61	0.76
1	130	0.3	2.2	2.2	3.81	3.81	5.46	5.71	22.79	1