

COMUNE DI S. VITO AL TAGLIAMENTO
(Provincia di Pordenone)

**STUDIO GEOLOGICO-TECNICO
DEL TERRITORIO COMUNALE**
relativo al P.R.G.C. variante di revisione
in adeguamento alla L.R. 52/91

Allegato 2

Verifiche idrauliche

Roggia Versa

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ROGGIA VERSA
Tempo di ritorno 10 anni

Tratto	Sezione n°	D (m)	Q (mc/s)	Z (m)	H (m)	V (m/s)	Fr
Versa sud	1		6.58	20.14	21.09	1.01	0.39
Versa sud	1.2	130	6.58	20.74	21.48	1.00	0.40
Versa sud	2	480	6.58	21.69	23.08	1.27	0.43
Versa sud	3	200	6.58	21.70	23.30	0.47	0.13
Versa sud	3.1	10	6.58	21.62	23.31	0.49	0.12
Versa sud	3.15	Culvert					
Versa sud	3.2	12	6.58	21.62	23.32	0.48	0.12
Versa sud	4	10	6.58	21.70	23.32	0.56	0.14
Versa sud	4.2	250	6.58	22.23	23.44	0.56	0.18
Versa sud	5	390	6.58	23.18	23.86	0.96	0.42
Versa sud	6	340	6.58	23.44	24.44	0.65	0.23
Versa sud	7	520	4.40	24.37	25.07	0.82	0.33
Versa B	7.5	10	1.40	24.40	25.12	0.45	0.19
Versa B	8	360	1.40	25.30	25.78	1.38	0.66
Versa B	10	550	1.40	26.15	27.07	0.50	0.20
Versa B	11	180	1.40	26.73	27.32	0.79	0.37
Versa B	11.05	Culvert					
Versa B	11.1	5	1.40	26.73	27.37	0.71	0.32
Versa B	12	40	1.40	26.90	27.47	0.73	0.32
Versa B	12.05	Culvert					
Versa B	12.1	56	1.40	27.05	27.51	0.93	0.46
Versa B	12.5	5	1.40	26.79	27.54	0.80	0.31
Versa B	13	10	1.40	26.52	27.58	0.38	0.13
Versa B	13.05	Bridge					
Versa B	13.1	0.5	1.40	26.53	27.59	0.44	0.14
Versa B	13.2	10	1.40	26.97	27.58	0.85	0.35
Versa B	13.5	330	1.40	27.49	28.18	0.51	0.21
scolmatore santa caterina							
Versa A	14	70	1.70	27.50	28.26	0.63	0.25
Versa A	15	200	1.70	27.60	28.58	0.77	0.27
Versa A	16	300	1.70	28.25	28.93	0.53	0.22
Versa A	16.1	15	1.70	28.27	28.95	0.38	0.15
Versa A	16.15	Bridge					
Versa A	16.2	0.5	1.70	28.27	28.97	0.37	0.14
Versa A	16.3	11	1.70	28.56	28.65	3.56	3.85
Versa A	16.55	14	1.70	28.81	29.38	2.73	1.16
Versa A	16.6	12.5	1.70	28.91	29.54	2.48	1.00
Versa A	17	1.2	1.70	28.91	29.87	0.48	0.16
Versa A	18	30	1.70	29.10	29.87	0.72	0.29
Versa A	18.2	25	1.70	29.20	29.92	0.92	0.38
Versa A	18.3	4	1.70	29.20	29.94	0.89	0.36
Versa A	19	80	1.70	29.19	30.11	0.59	0.22
scolmatore campo sportivo							
Versa	19.1	55	4.70	29.27	30.16	0.81	0.27
Versa	19.15	Culvert					
Versa	19.2	9	4.70	29.27	30.23	0.75	0.25
Versa	20	360	4.70	29.57	30.71	0.80	0.30
Versa	20.1	45	4.70	29.35	30.77	0.85	0.27
Versa	20.2	8	4.70	29.35	30.78	0.84	0.26
Versa	21	120	4.70	29.93	31.01	1.10	0.40

ROGGIA VERSA

Tempo di ritorno 10 anni

Versa	21.1	300	4.70	30.33	31.59	0.80	0.26
Versa	22	130	4.70	30.42	31.71	0.55	0.17
Versa	23.1	300	4.70	31.44	32.29	1.14	0.43
Versa	23.2	15	4.70	31.50	32.34	1.31	0.47
Versa	23.25	Culvert					
Versa	23.3	9	4.70	31.55	32.45	1.15	0.41
Versa	23.4	10	4.70	31.63	32.49	1.16	0.42
Versa	24	140	4.70	31.97	32.98	1.02	0.39
Versa	25	180	4.70	32.31	33.43	0.96	0.33
Versa	27	340	4.70	32.70	34.03	0.70	0.23
scolmatore s.caterina	1	16	0.30	27.06	28.35	0.11	0.04
scolmatore s.caterina	2	100	0.30	27.56	28.36	0.18	0.08
scolmatore campo sportivo	1	5	3.00	27.85	29.36	0.65	0.18
scolmatore campo sportivo	2	80	3.00	28.87	29.42	2.02	0.90
scolmatore campo sportivo	3	10	3.00	29.57	30.05	2.08	1.01

D: distanza dalla sezione precedente
 Q: portata in mc/s
 Z: quota del fondo del canale in m. slm
 H: quota della lama d'acqua in m. slm
 V: velocità del flusso in m/s
 Fr: numero di Froude

ROGGIA VERSA
Tempo di ritorno 30 anni

Tratto	Sezione n°	D (m)	Q (mc/s)	Z (m)	H (m)	V (m/s)	Fr
Versa sud	1		8.40	20.14	21.21	1.09	0.40
Versa sud	1.2	130	8.40	20.74	21.60	1.07	0.40
Versa sud	2	480	8.40	21.69	23.11	1.20	0.41
Versa sud	3	200	8.40	21.70	23.34	0.59	0.16
Versa sud	3.1	10	8.40	21.62	23.34	0.61	0.15
Versa sud	3.15	Culvert					
Versa sud	3.2	12	8.40	21.62	23.37	0.60	0.15
Versa sud	4	10	8.40	21.70	23.37	0.70	0.18
Versa sud	4.2	250	8.40	22.23	23.53	0.65	0.20
Versa sud	5	390	8.40	23.18	23.99	0.97	0.39
Versa sud	6	340	8.40	23.44	24.55	0.72	0.24
Versa sud	7	520	5.70	24.37	25.21	0.88	0.32
Versa B	7.5	10	2.00	24.40	25.25	0.51	0.20
Versa B	8	360	2.00	25.30	25.93	1.48	0.62
Versa B	10	550	2.00	26.15	27.22	0.57	0.21
Versa B	11	180	2.00	26.73	27.47	0.85	0.36
Versa B	11.05	Culvert					
Versa B	11.1	5	2.00	26.73	27.53	0.75	0.31
Versa B	12	40	2.00	26.90	27.62	0.80	0.32
Versa B	12.05	Culvert					
Versa B	12.1	56	2.00	27.05	27.67	0.96	0.41
Versa B	12.5	5	2.00	26.79	27.69	0.94	0.34
Versa B	13	10	2.00	26.52	27.73	0.46	0.14
Versa B	13.05	Bridge					
Versa B	13.1	0.5	2.00	26.53	27.75	0.55	0.16
Versa B	13.2	10	2.00	26.97	27.74	0.96	0.35
Versa B	13.5	330	2.00	27.49	28.34	0.57	0.22
scolmatore santa caterina							
Versa A	14	70	2.50	27.50	28.42	0.74	0.27
Versa A	15	200	2.50	27.60	28.79	0.89	0.29
Versa A	16	300	2.50	28.25	29.15	0.56	0.21
Versa A	16.1	15	2.50	28.27	29.16	0.42	0.14
Versa A	16.15	Bridge					
Versa A	16.2	0.5	2.50	28.27	29.18	0.41	0.14
Versa A	16.3	11	2.50	28.56	29.18	0.73	0.30
Versa A	16.55	14	2.50	28.81	29.56	3.05	1.13
Versa A	16.6	12.5	2.50	28.91	29.72	2.81	1.00
Versa A	17	1.2	2.50	28.91	30.15	0.55	0.16
Versa A	18	30	2.50	29.10	30.15	0.71	0.25
Versa A	18.2	25	2.50	29.20	30.19	0.91	0.33
Versa A	18.3	4	2.50	29.20	30.20	0.90	0.32
Versa A	19	80	2.50	29.19	30.35	0.66	0.22
scolmatore campo sportivo							
Versa	19.1	55	6.00	29.27	30.40	0.82	0.25
Versa	19.15	Culvert					
Versa	19.2	9	6.00	29.27	30.47	0.77	0.22
Versa	20	360	6.00	29.57	30.87	0.84	0.28
Versa	20.1	45	6.00	29.35	30.93	0.94	0.28
Versa	20.2	8	6.00	29.35	30.94	0.93	0.28
Versa	21	120	6.00	29.93	31.17	1.17	0.39

ROGGIA VERSA

Tempo di ritorno 30 anni

Versa	21.1	300	6.00	30.33	31.73	0.90	0.27
Versa	22	130	6.00	30.42	31.86	0.60	0.17
Versa	23.1	300	6.00	31.44	32.42	1.22	0.43
Versa	23.2	15	6.00	31.50	32.47	1.43	0.48
Versa	23.25	Culvert					
Versa	23.3	9	6.00	31.55	32.65	1.18	0.37
Versa	23.4	10	6.00	31.63	32.70	1.04	0.33
Versa	24	140	6.00	31.97	33.07	1.03	0.37
Versa	25	180	6.00	32.31	33.53	1.08	0.35
Versa	27	340	6.00	32.70	34.12	0.73	0.23
scolmatore s.caterina	1	16	0.50	27.06	28.53	0.16	0.05
scolmatore s.caterina	2	100	0.50	27.56	28.54	0.22	0.09
scolmatore campo sportivo	1	5	3.50	27.85	29.52	0.67	0.18
scolmatore campo sportivo	2	80	3.50	28.87	29.60	1.74	0.68
scolmatore campo sportivo	3	10	3.50	29.57	30.10	2.17	1.01

D: distanza dalla sezione precedente

Q: portata in mc/s

Z: quota del fondo del canale in m. slm

H: quota della lama d'acqua in m. slm

V: velocità del flusso in m/s

Fr: numero di Froude

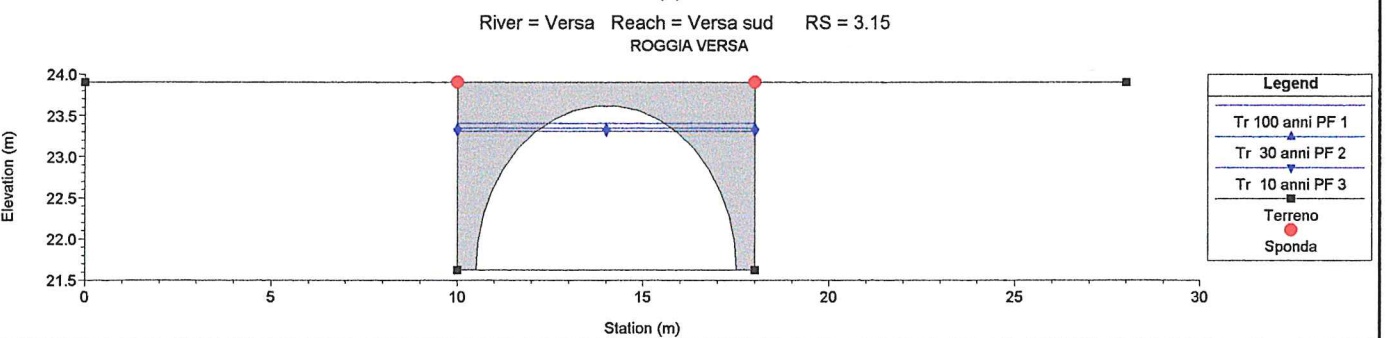
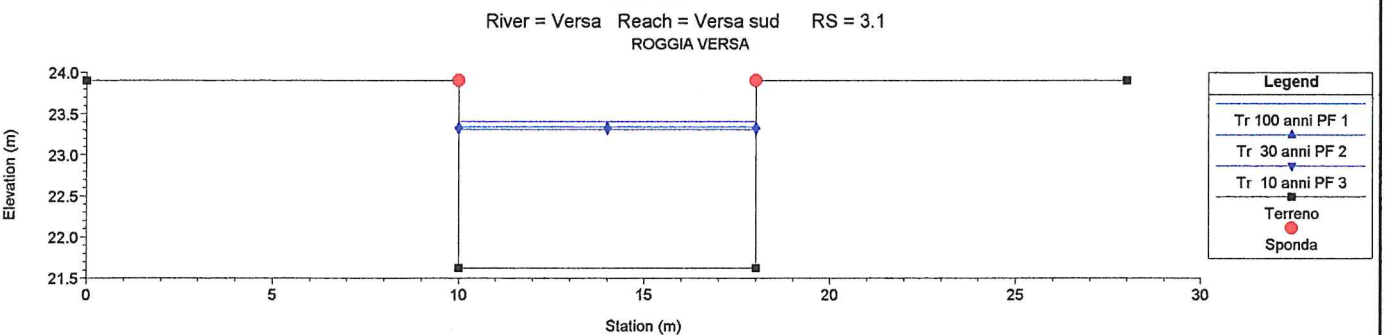
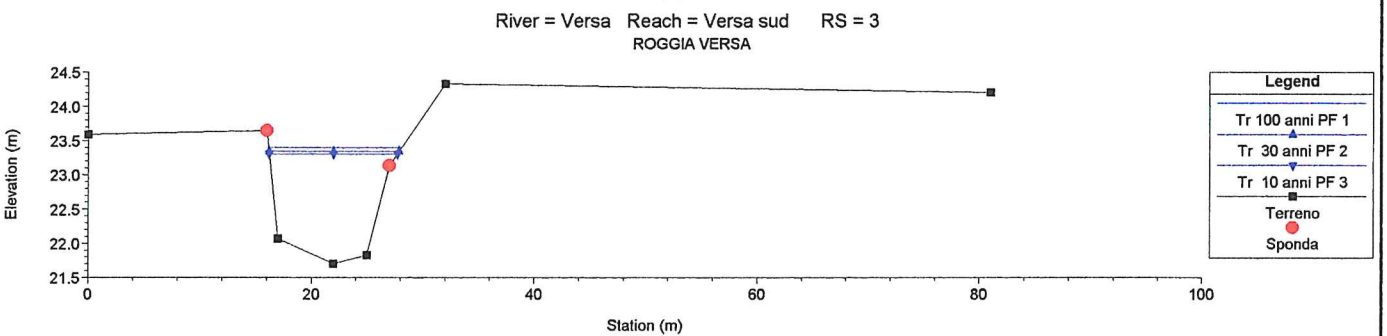
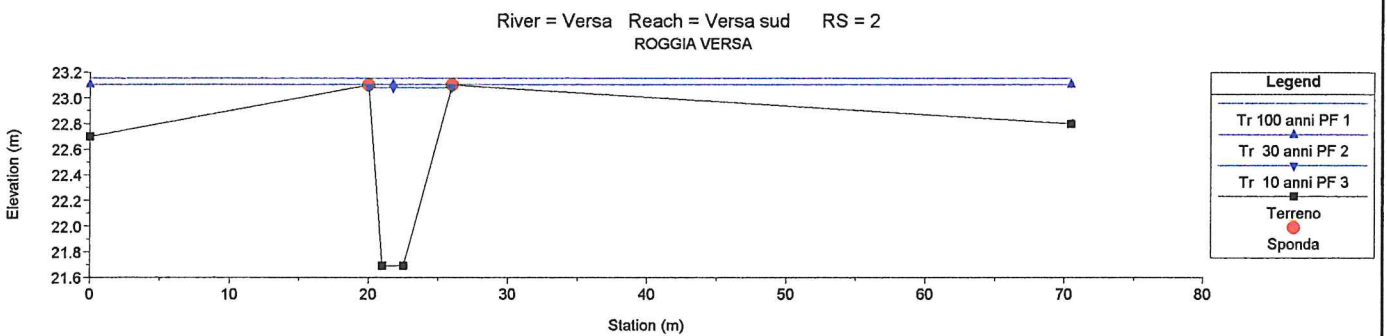
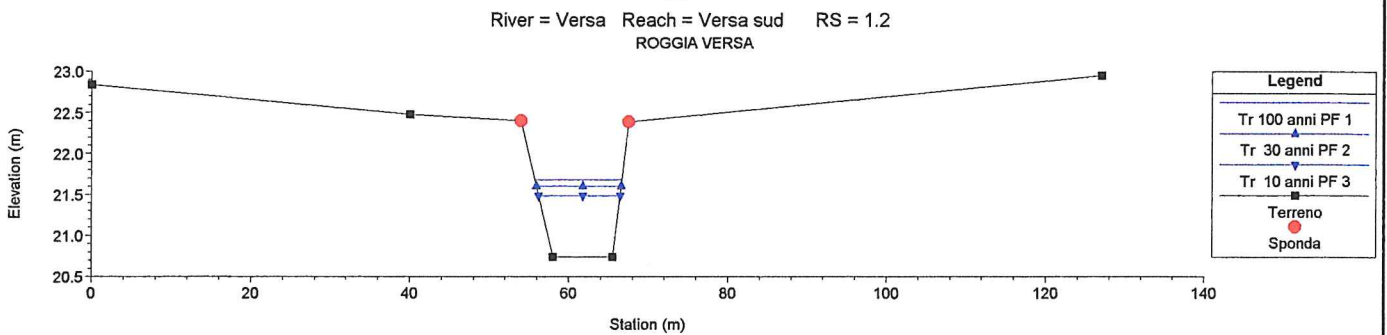
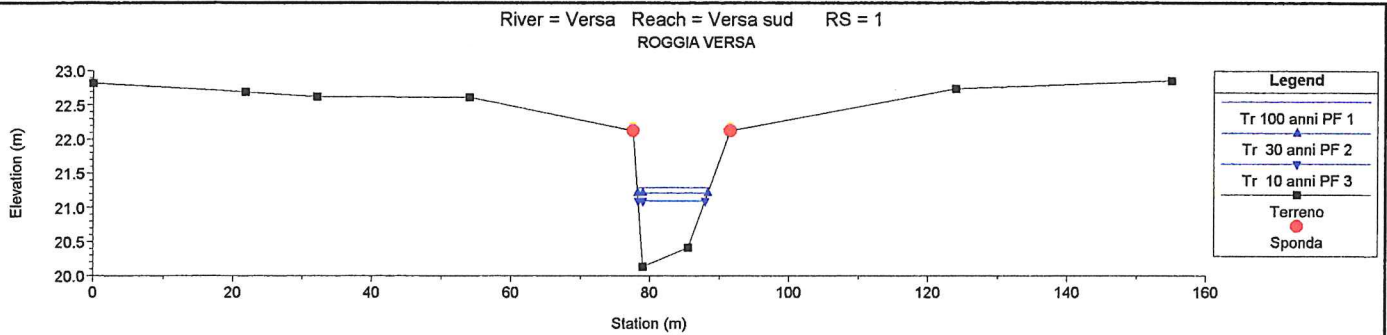
ROGGIA VERSA
Tempo di ritorno 100 anni

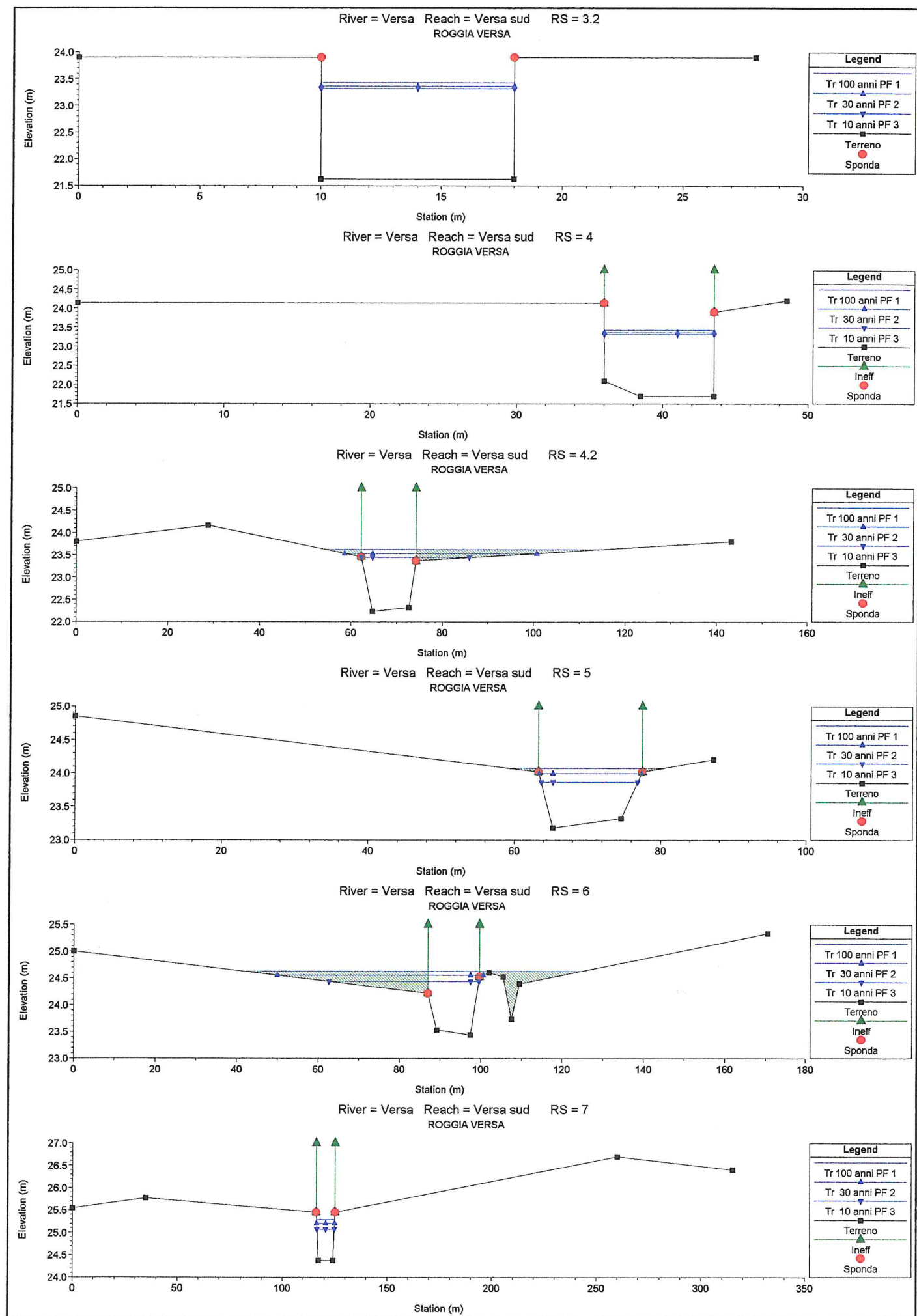
Tratto	Sezione n°	D (m)	Q (mc/s)	Z (m)	H (m)	V (m/s)	Fr
Versa sud	1		9.71	20.14	21.29	1.14	0.40
Versa sud	1.2	130	9.71	20.74	21.68	1.12	0.40
Versa sud	2	480	9.71	21.69	23.16	1.21	0.40
Versa sud	3	200	9.71	21.70	23.40	0.65	0.18
Versa sud	3.1	10	9.71	21.62	23.40	0.68	0.16
Versa sud	3.15	Culvert					
Versa sud	3.2	12	9.71	21.62	23.43	0.67	0.16
Versa sud	4	10	9.71	21.70	23.43	0.78	0.19
Versa sud	4.2	250	9.71	22.23	23.62	0.70	0.21
Versa sud	5	390	9.71	23.18	24.08	0.99	0.38
Versa sud	6	340	9.71	23.44	24.62	0.78	0.25
Versa sud	7	520	6.55	24.37	25.29	0.92	0.32
Versa B	7.5	10	2.20	24.40	25.33	0.49	0.19
Versa B	8	360	2.20	25.30	25.93	1.63	0.68
Versa B	10	550	2.20	26.15	27.26	0.58	0.21
Versa B	11	180	2.20	26.73	27.51	0.87	0.36
Versa B	11.05	Culvert					
Versa B	11.1	5	2.20	26.73	27.58	0.77	0.31
Versa B	12	40	2.20	26.90	27.66	0.83	0.32
Versa B	12.05	Culvert					
Versa B	12.1	56	2.20	27.05	27.71	0.97	0.41
Versa B	12.5	5	2.20	26.79	27.73	0.98	0.35
Versa B	13	10	2.20	26.52	27.78	0.49	0.15
Versa B	13.05	Bridge					
Versa B	13.1	0.5	2.20	26.53	27.79	0.58	0.16
Versa B	13.2	10	2.20	26.97	27.79	1.00	0.35
Versa B	13.5	330	2.20	27.49	28.40	0.58	0.22
scolmatore santa caterina							
Versa A	14	70	3.20	27.50	28.48	0.88	0.31
Versa A	15	200	3.20	27.60	28.92	1.00	0.31
Versa A	16	300	3.20	28.25	29.31	0.59	0.20
Versa A	16.1	15	3.20	28.27	29.32	0.46	0.14
Versa A	16.15	Bridge					
Versa A	16.2	0.5	3.20	28.27	29.36	0.44	0.14
Versa A	16.3	11	3.20	28.56	29.35	0.73	0.26
Versa A	16.55	14	3.20	28.81	29.70	3.28	1.11
Versa A	16.6	12.5	3.20	28.91	29.86	3.06	1.00
Versa A	17	1.2	3.20	28.91	30.37	0.59	0.16
Versa A	18	30	3.20	29.10	30.38	0.62	0.19
Versa A	18.2	25	3.20	29.20	30.39	0.92	0.31
Versa A	18.3	4	3.20	29.20	30.40	0.90	0.30
Versa A	19	80	3.20	29.19	30.54	0.70	0.22
scolmatore campo sportivo							
Versa	19.1	55	7.20	29.27	30.58	0.85	0.24
Versa	19.15	Culvert					
Versa	19.2	9	7.20	29.27	30.68	0.79	0.21
Versa	20	360	7.20	29.57	31.02	0.87	0.27
Versa	20.1	45	7.20	29.35	31.07	1.00	0.29
Versa	20.2	8	7.20	29.35	31.08	0.99	0.28
Versa	21	120	7.20	29.93	31.30	1.22	0.38

ROGGIA VERSA
Tempo di ritorno 100 anni

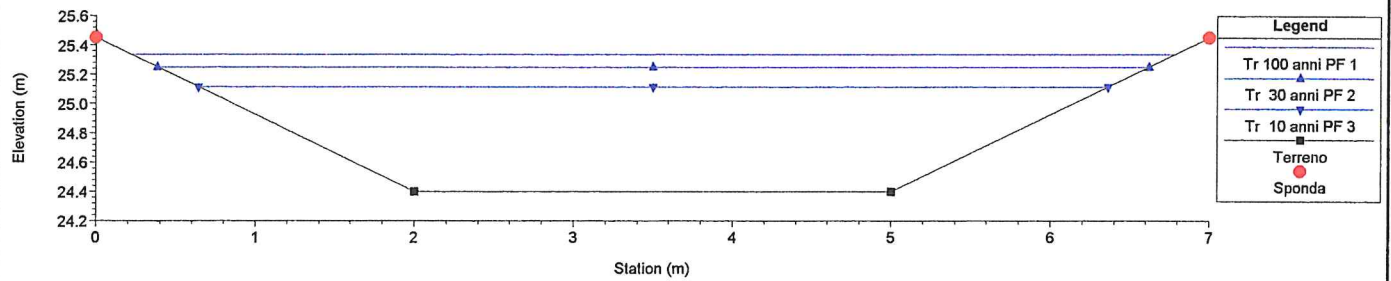
Versa	21.1	300	7.20	30.33	31.84	0.98	0.28
Versa	22	130	7.20	30.42	31.98	0.64	0.18
Versa	23.1	300	7.20	31.44	32.54	1.29	0.43
Versa	23.2	15	7.20	31.50	32.58	1.54	0.49
Versa	23.25	Culvert					
Versa	23.3	9	7.20	31.55	32.87	1.17	0.34
Versa	23.4	10	7.20	31.63	32.93	0.90	0.26
Versa	24	140	7.20	31.97	33.14	0.98	0.34
Versa	25	180	7.20	32.31	33.60	1.16	0.37
Versa	27	340	7.20	32.70	34.19	0.76	0.24
scolmatore s.caterina	1	16	1.00	27.06	28.66	0.28	0.08
scolmatore s.caterina	2	100	1.00	27.56	28.69	0.36	0.13
scolmatore campo sportivo	1	5	4.00	27.85	29.67	0.69	0.18
scolmatore campo sportivo	2	80	4.00	28.87	29.75	1.61	0.58
scolmatore campo sportivo	3	10	4.00	29.57	30.14	2.26	1.01

D: distanza dalla sezione precedente
Q: portata in mc/s
Z: quota del fondo del canale in m. slm
H: quota della lama d'acqua in m. slm
V: velocità del flusso in m/s
Fr: numero di Froude

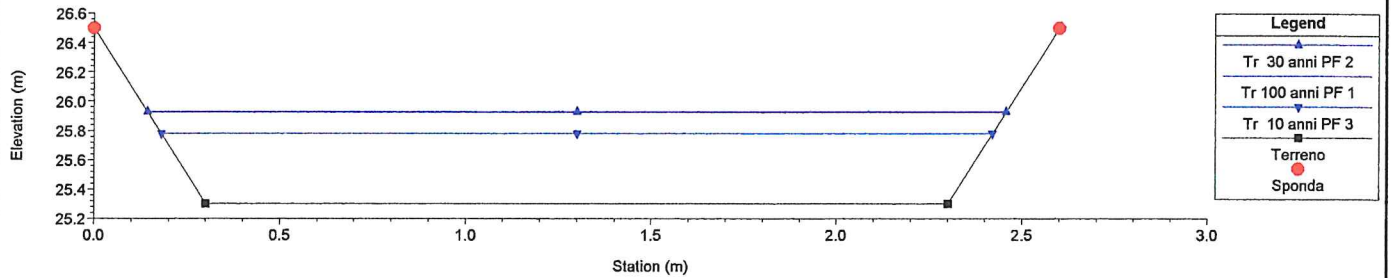




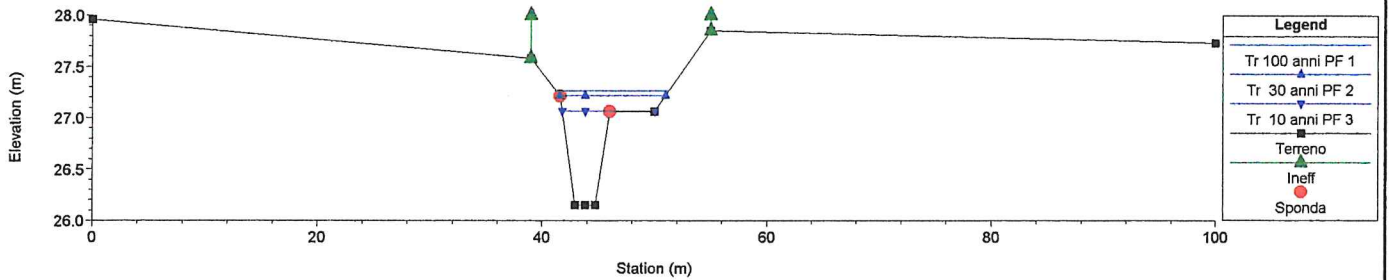
River = Versa Reach = Versa B RS = 7.5
ROGGIA VERSA



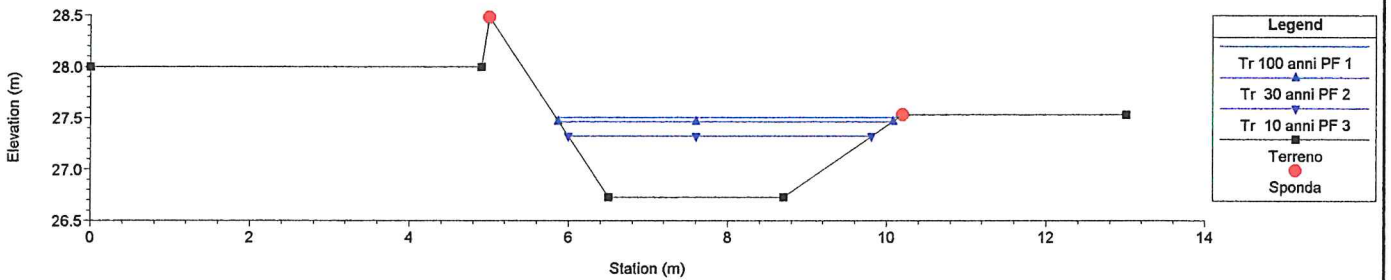
River = Versa Reach = Versa B RS = 8
ROGGIA VERSA



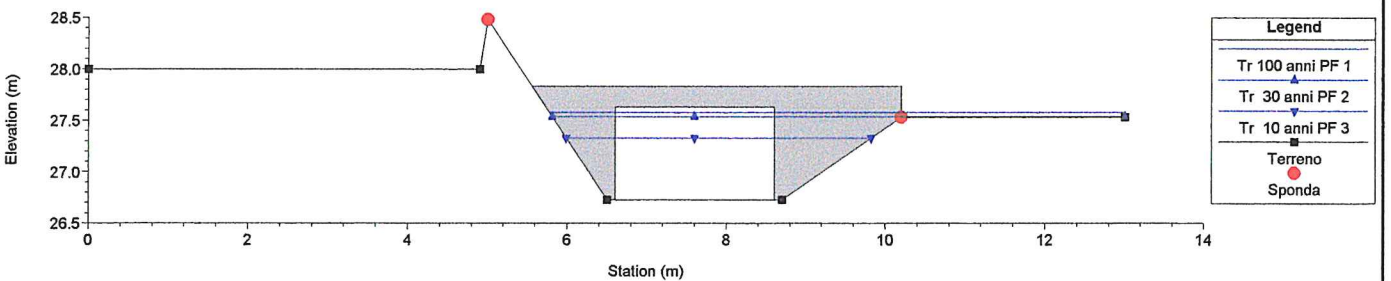
River = Versa Reach = Versa B RS = 10
ROGGIA VERSA



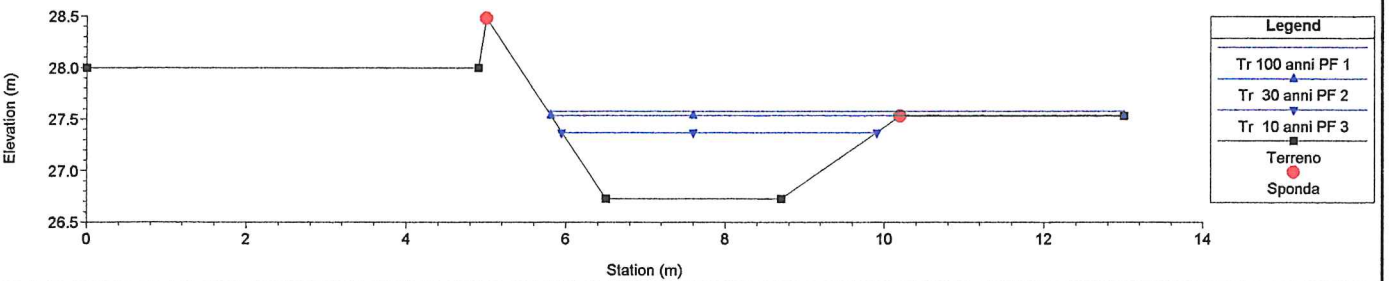
River = Versa Reach = Versa B RS = 11
ROGGIA VERSA



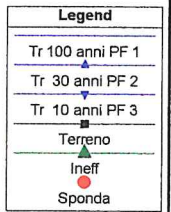
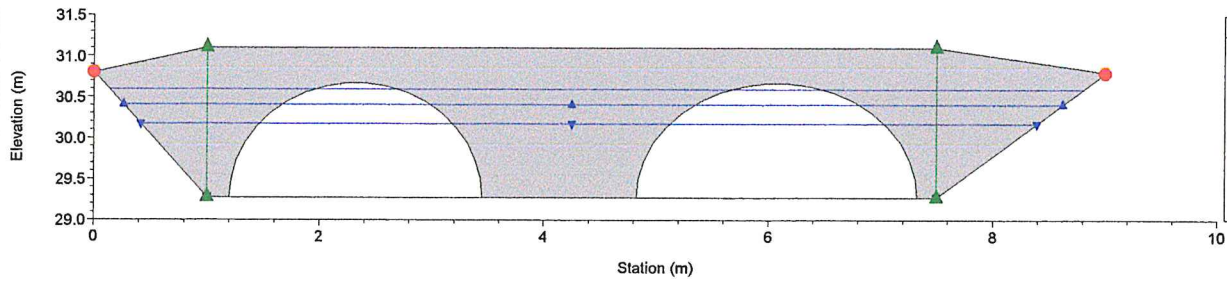
River = Versa Reach = Versa B RS = 11.05
ROGGIA VERSA



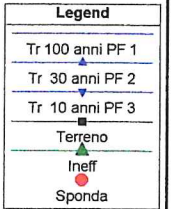
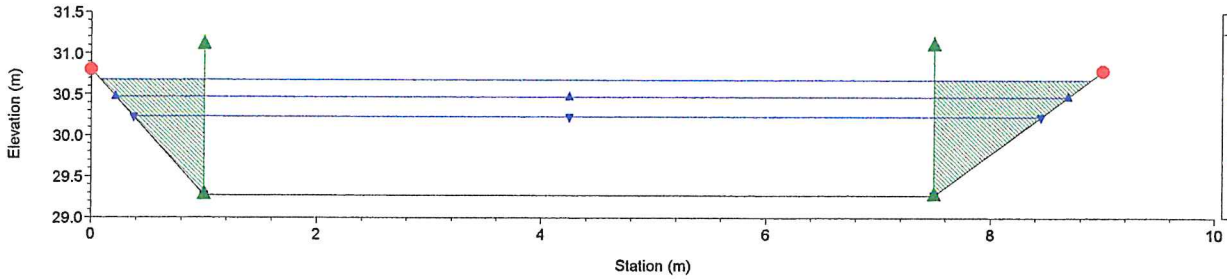
River = Versa Reach = Versa B RS = 11.1
ROGGIA VERSA



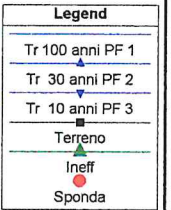
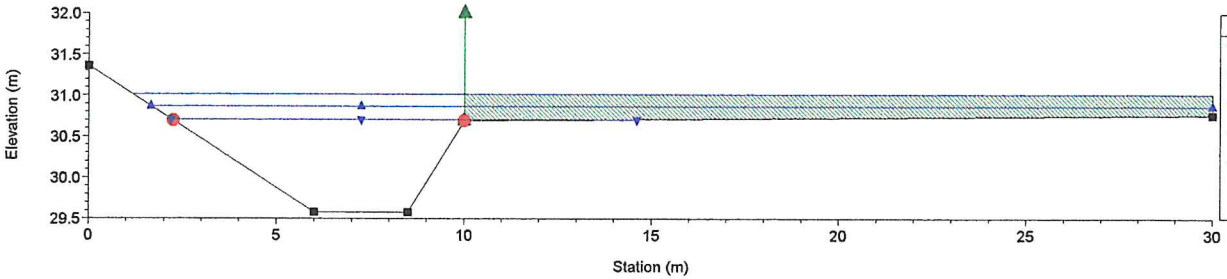
River = Versa Reach = Versa RS = 19.15
ROGGIA VERSA



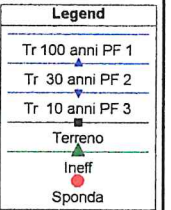
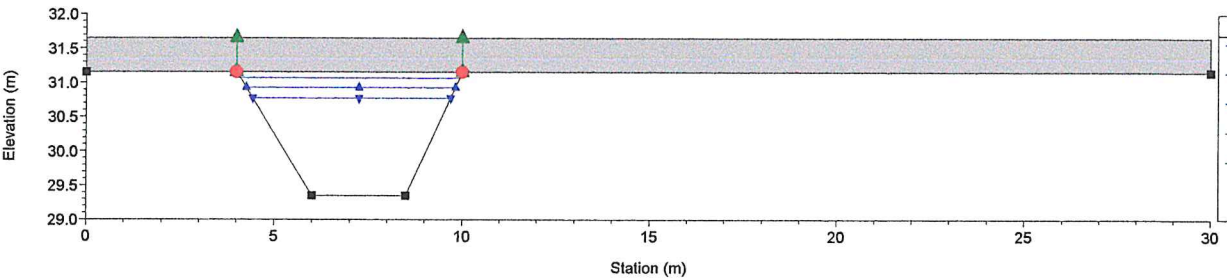
River = Versa Reach = Versa RS = 19.2
ROGGIA VERSA



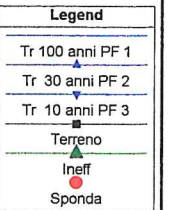
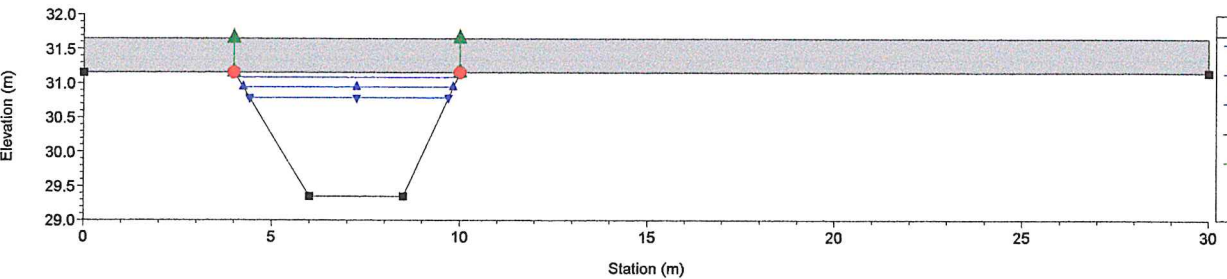
River = Versa Reach = Versa RS = 20
ROGGIA VERSA



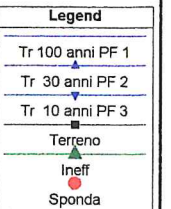
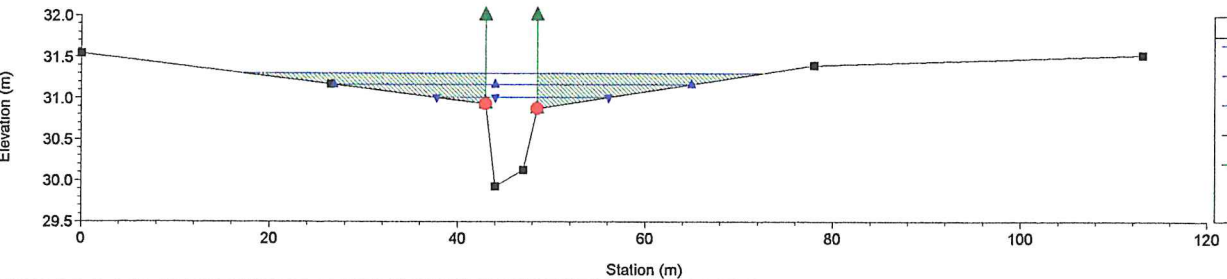
River = Versa Reach = Versa RS = 20.1
ROGGIA VERSA



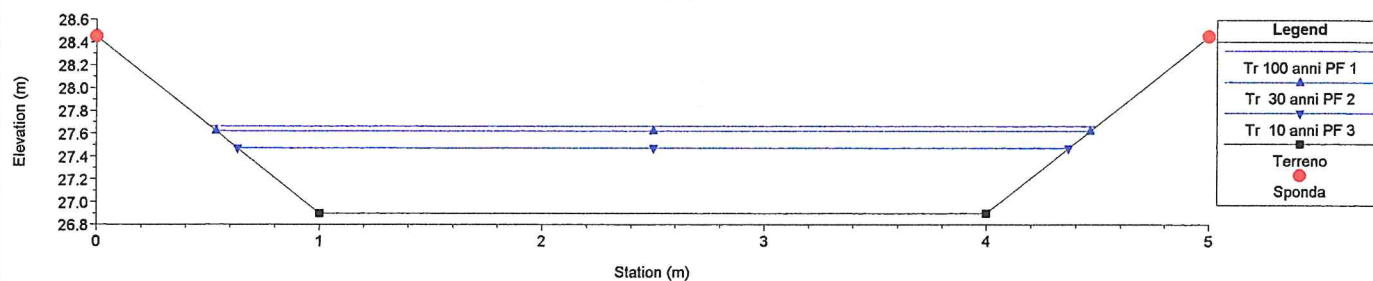
River = Versa Reach = Versa RS = 20.2
ROGGIA VERSA



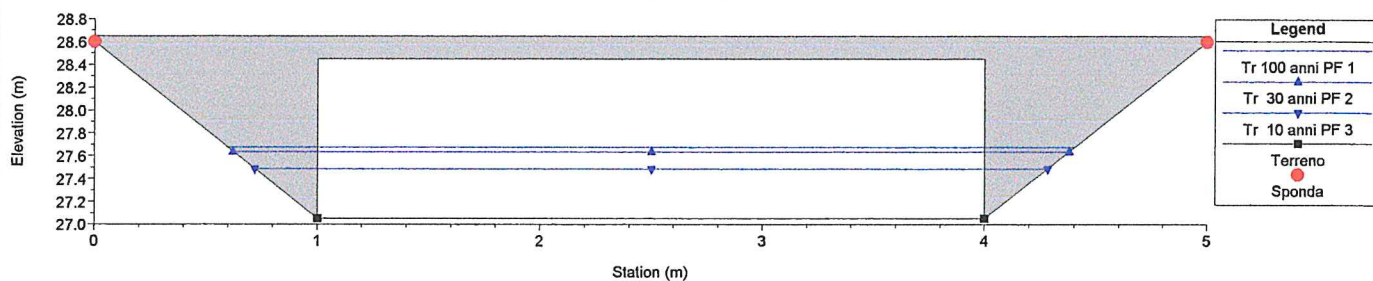
River = Versa Reach = Versa RS = 21
ROGGIA VERSA



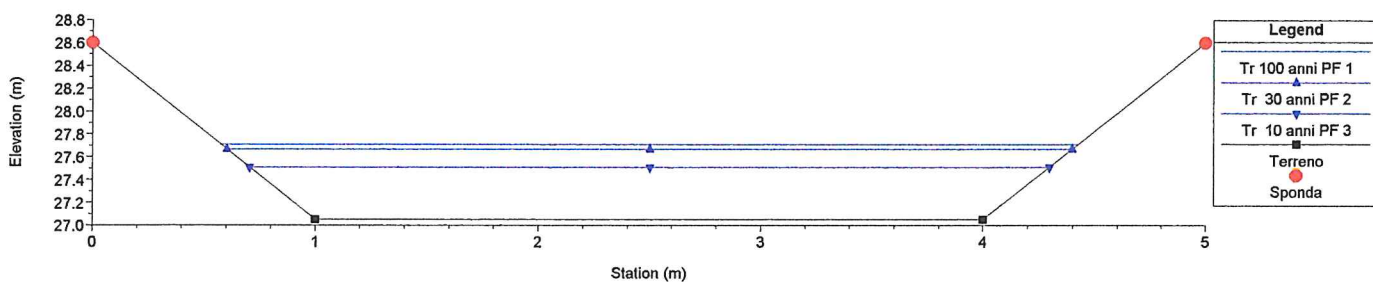
River = Versa Reach = Versa B RS = 12
ROGGIA VERSA



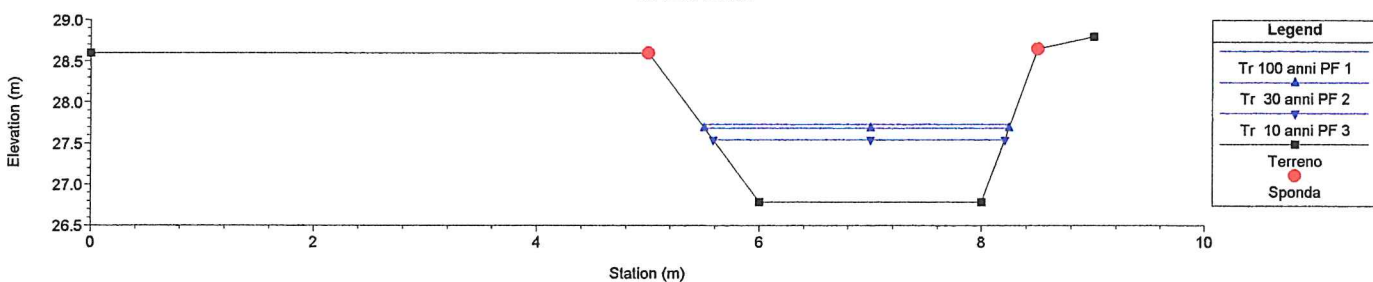
River = Versa Reach = Versa B RS = 12.05
ROGGIA VERSA



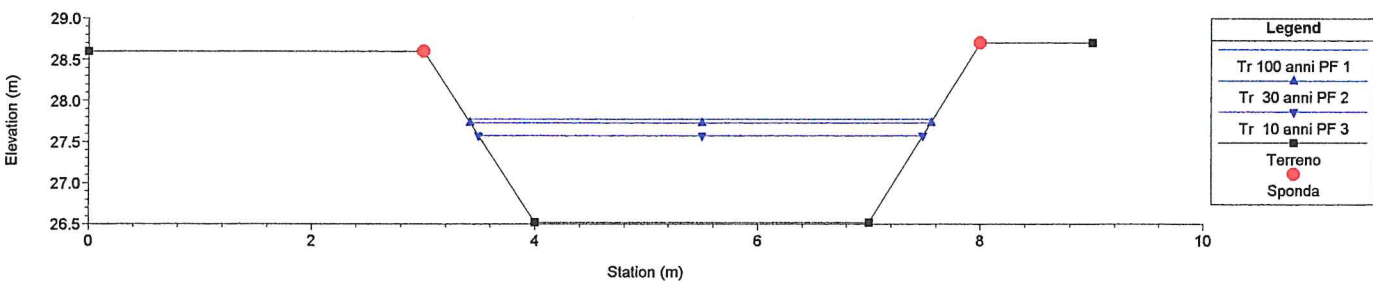
River = Versa Reach = Versa B RS = 12.1
ROGGIA VERSA



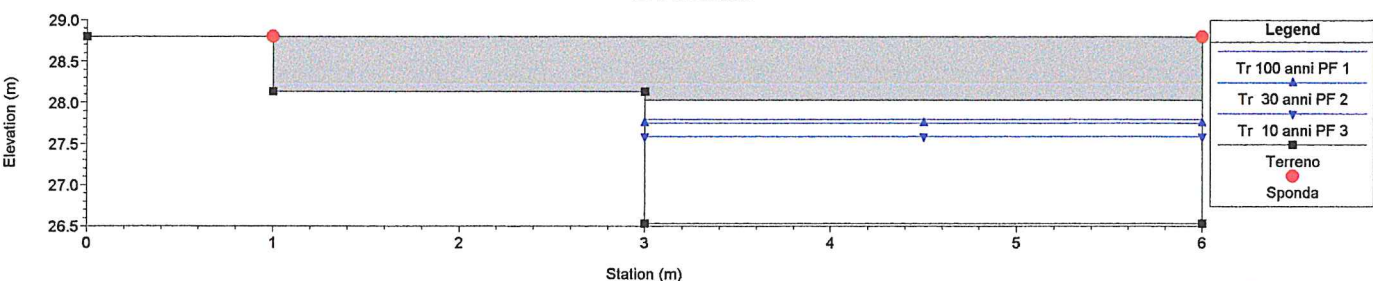
River = Versa Reach = Versa B RS = 12.5
ROGGIA VERSA



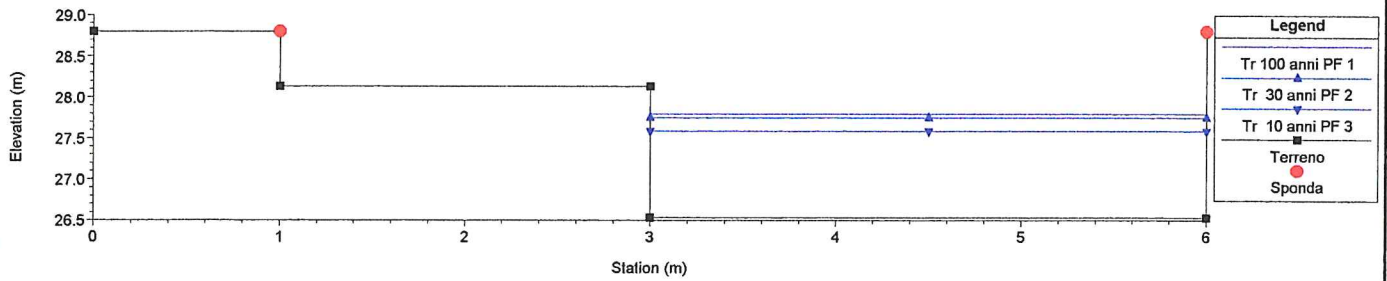
River = Versa Reach = Versa B RS = 13
ROGGIA VERSA



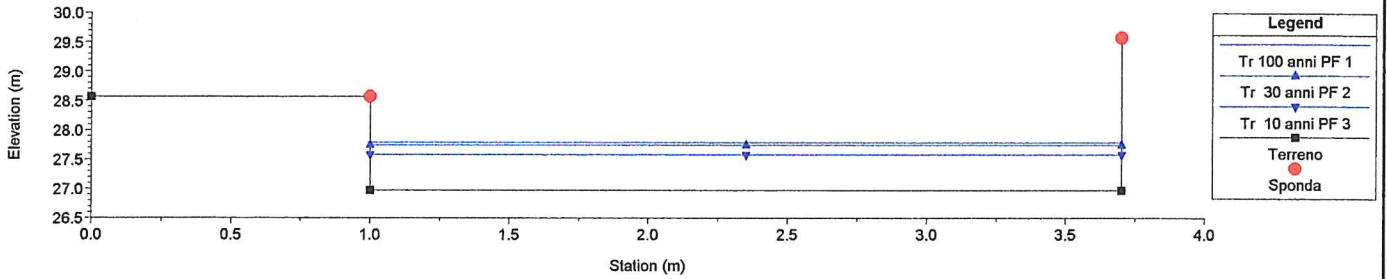
River = Versa Reach = Versa B RS = 13.05
ROGGIA VERSA



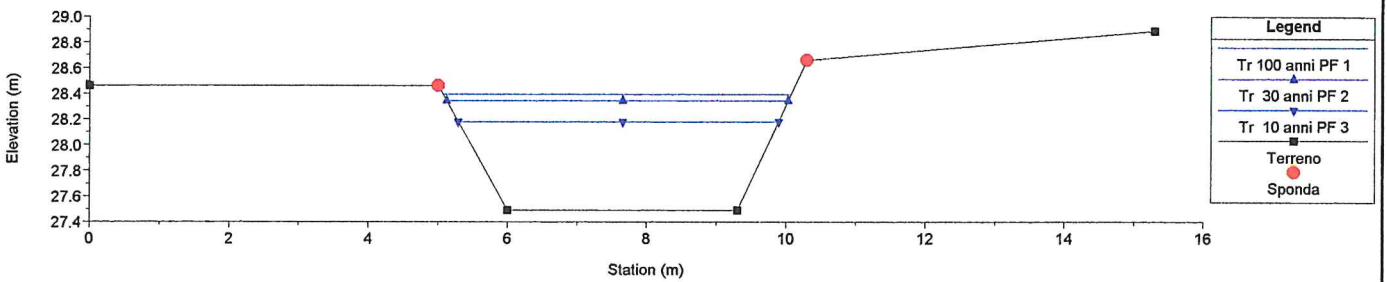
River = Versa Reach = Versa B RS = 13.1
ROGGIA VERSA



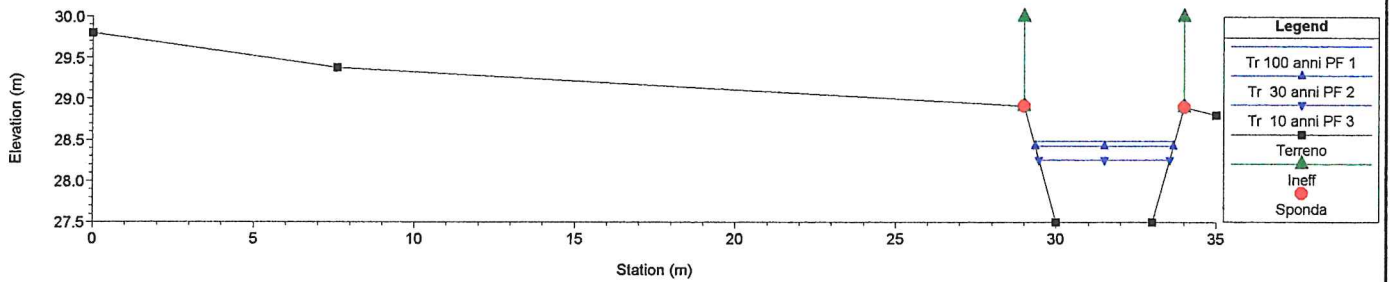
River = Versa Reach = Versa B RS = 13.2
ROGGIA VERSA



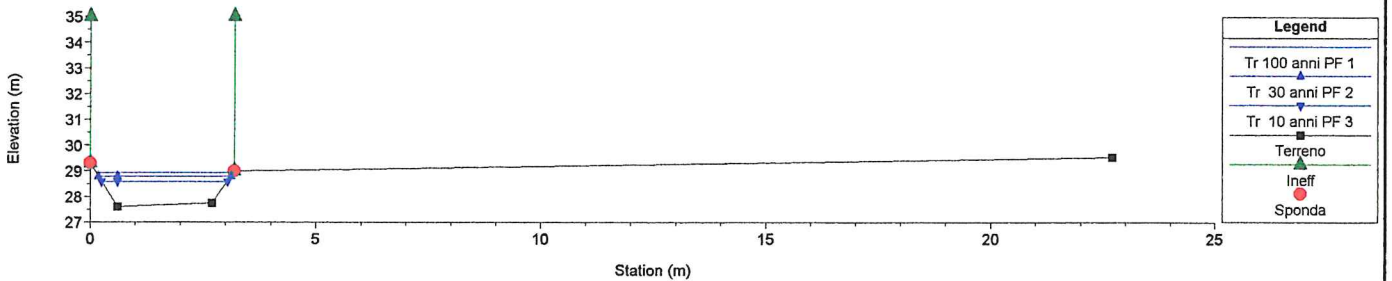
River = Versa Reach = Versa B RS = 13.5
ROGGIA VERSA



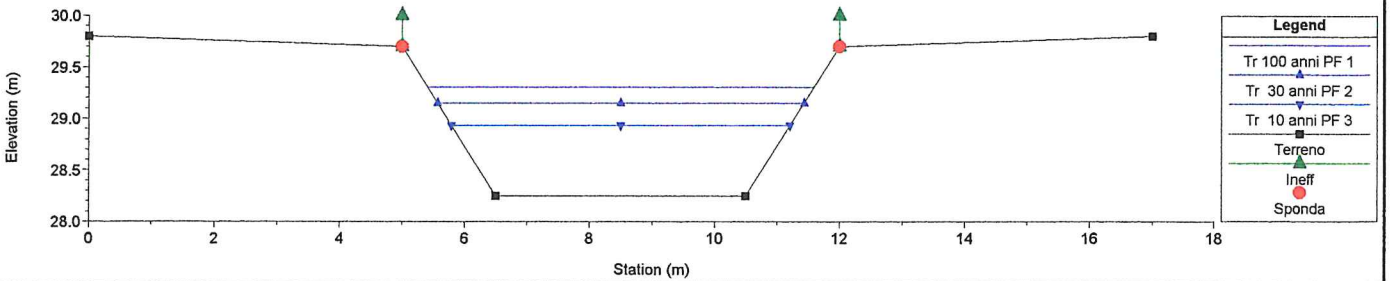
River = Versa Reach = Versa A RS = 14
ROGGIA VERSA

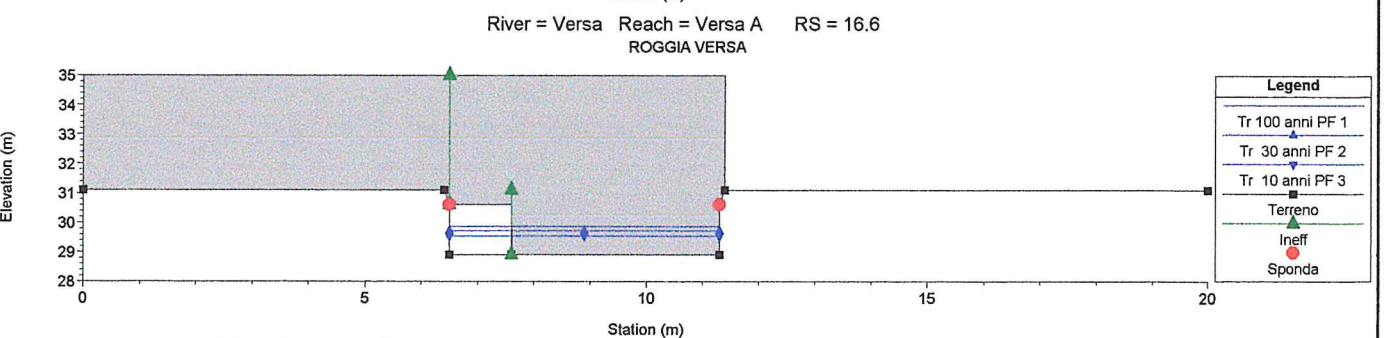
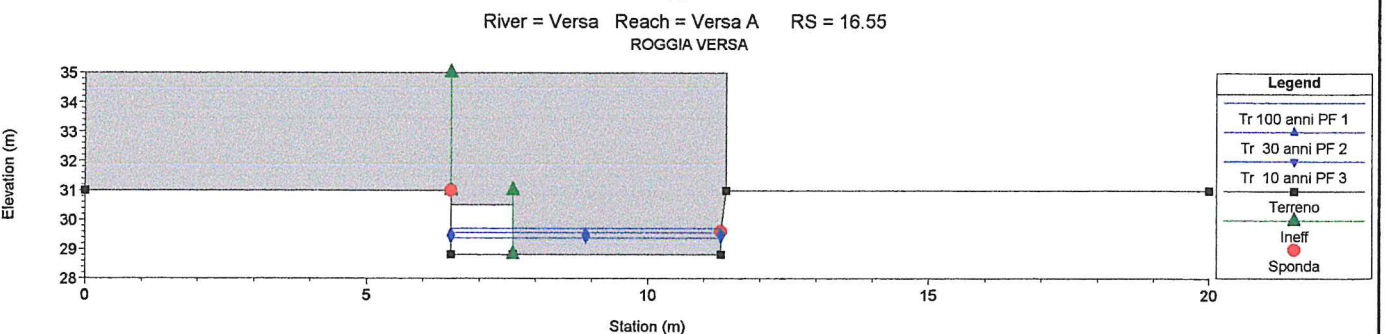
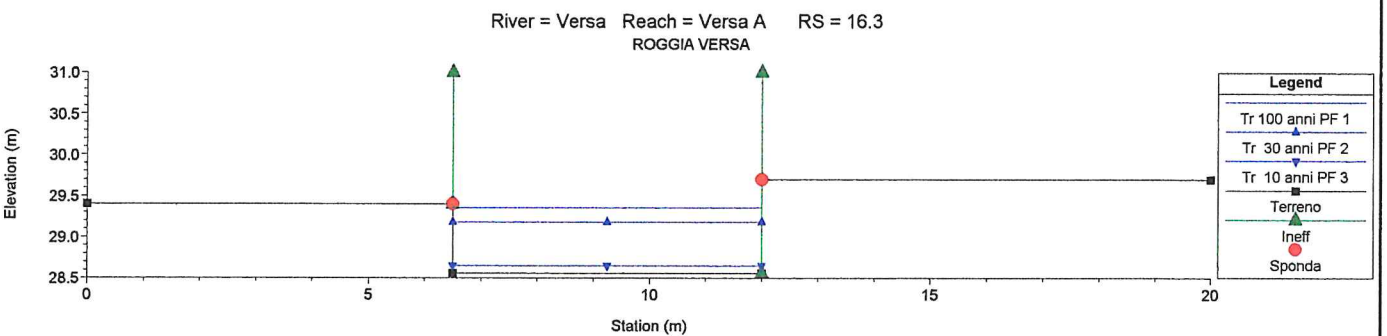
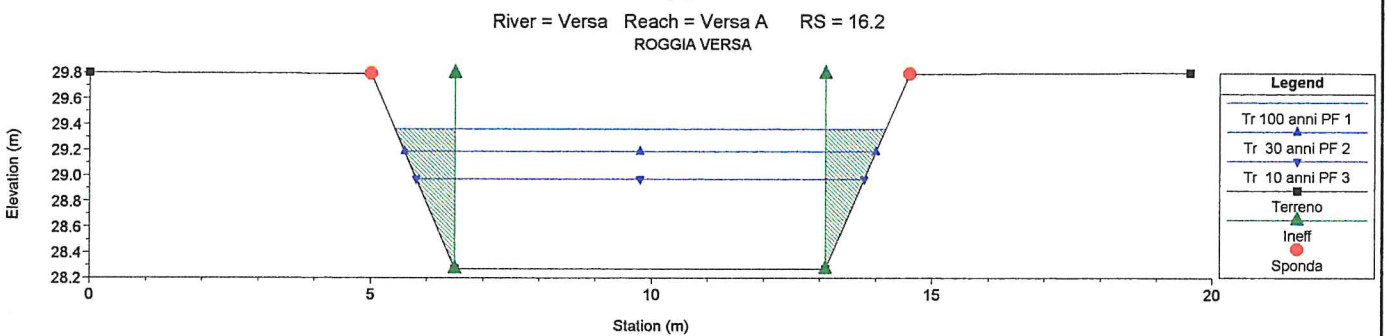
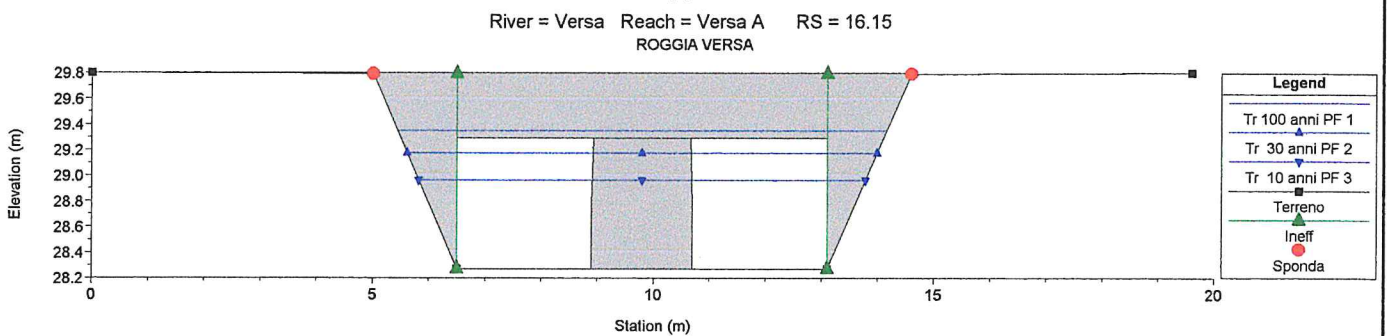
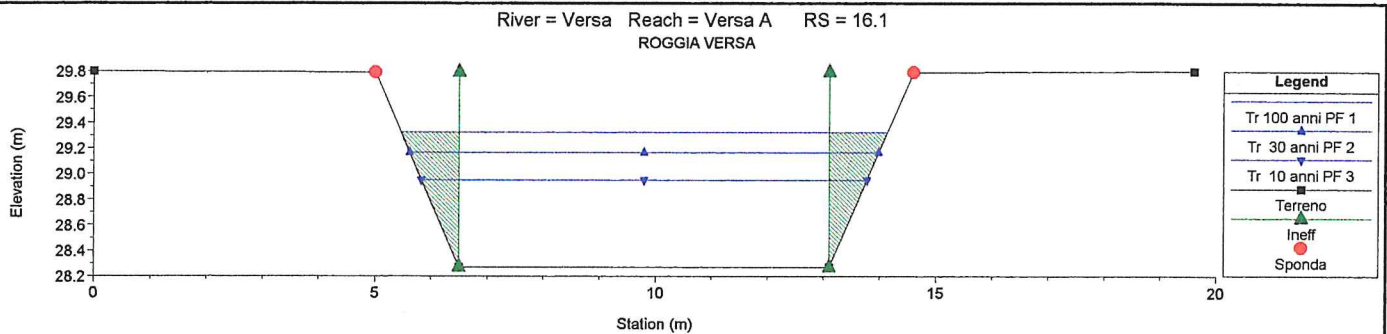


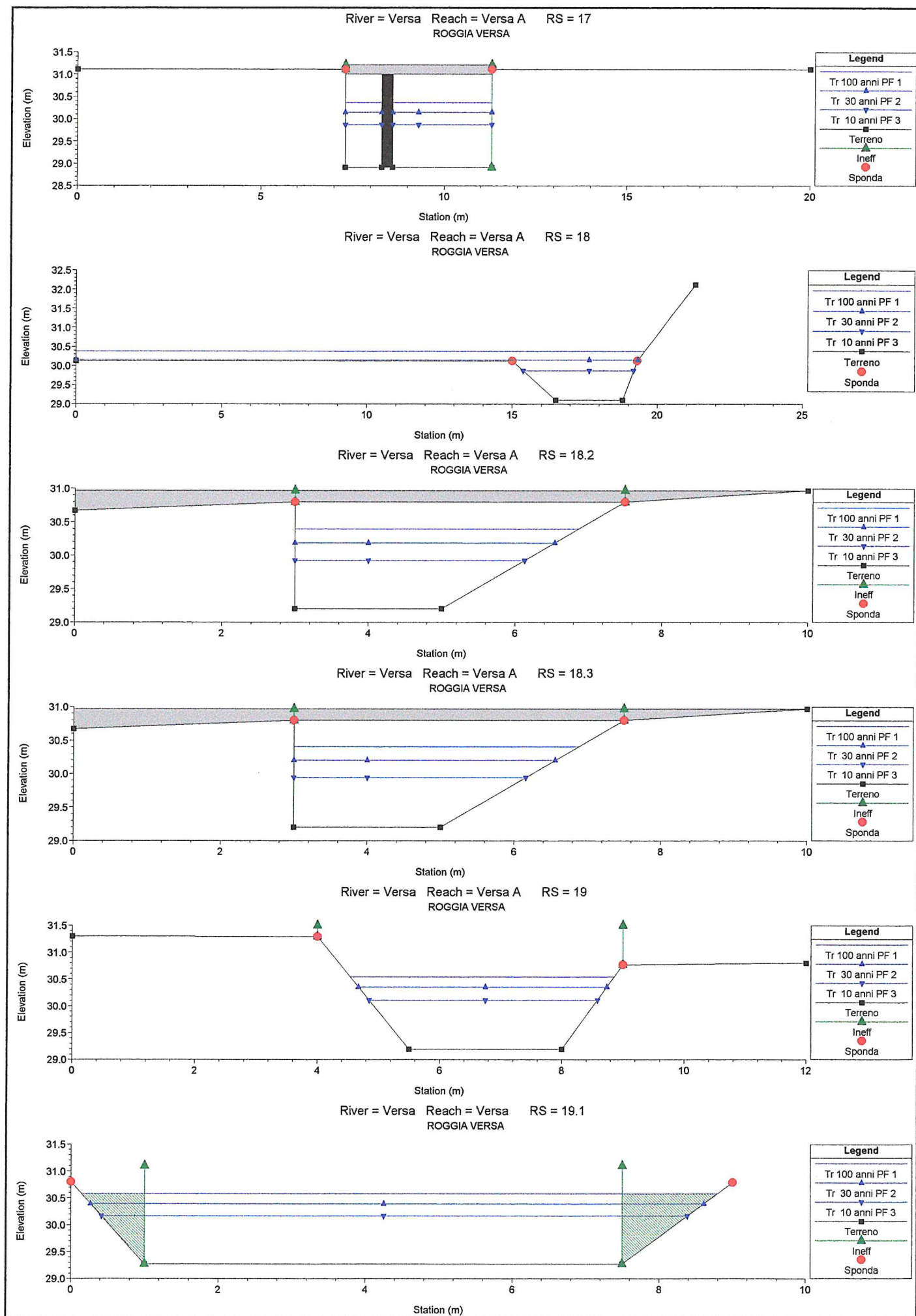
River = Versa Reach = Versa A RS = 15
ROGGIA VERSA



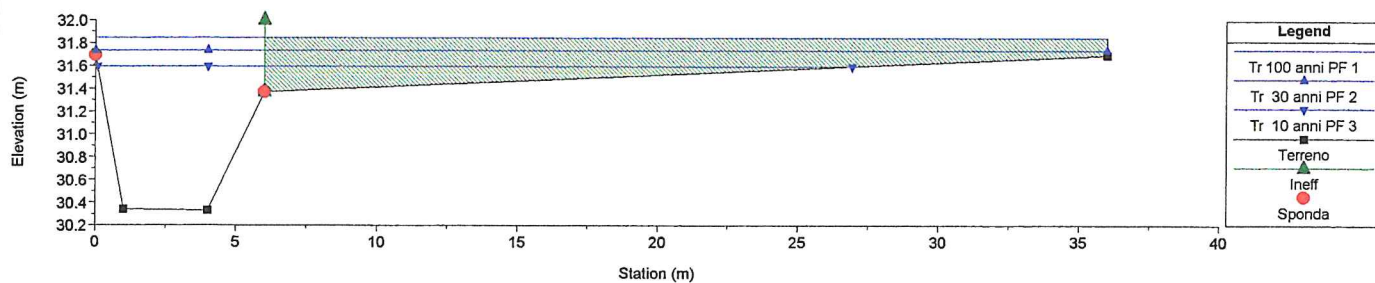
River = Versa Reach = Versa A RS = 16
ROGGIA VERSA



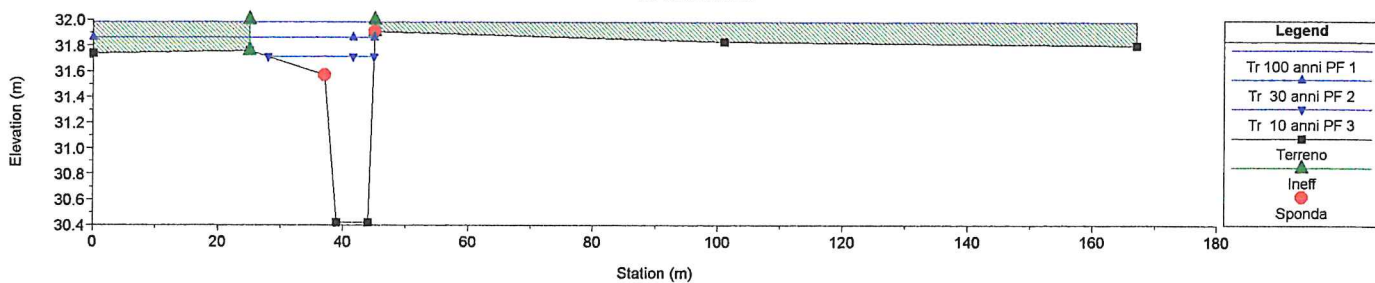




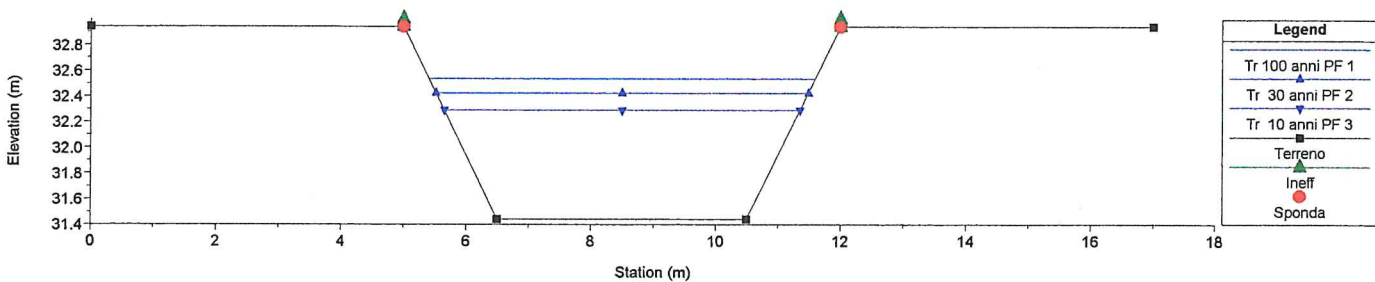
River = Versa Reach = Versa RS = 21.1
ROGGIA VERSA



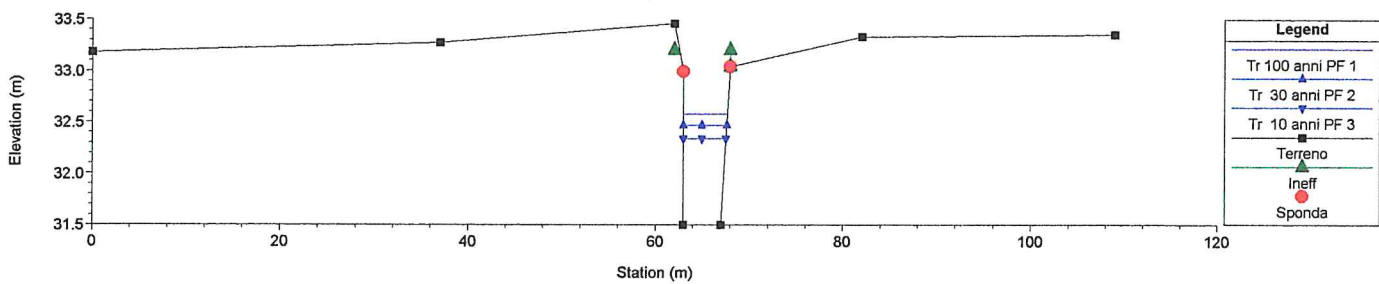
River = Versa Reach = Versa RS = 22
ROGGIA VERSA



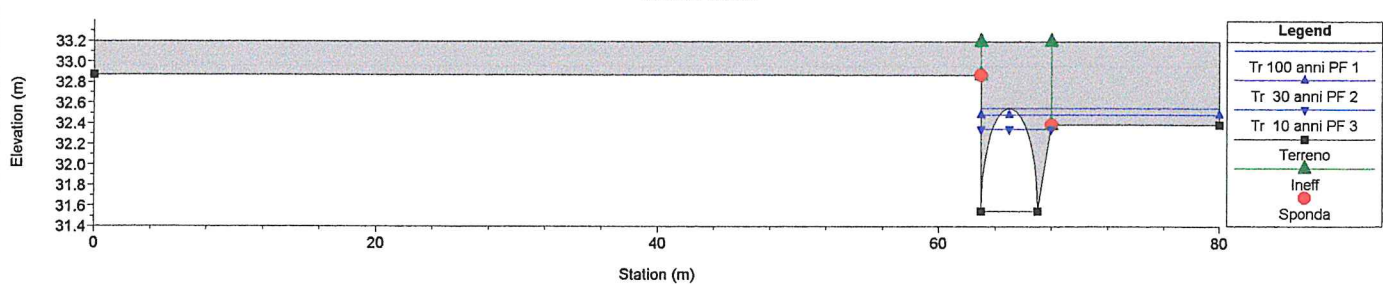
River = Versa Reach = Versa RS = 23.1
ROGGIA VERSA



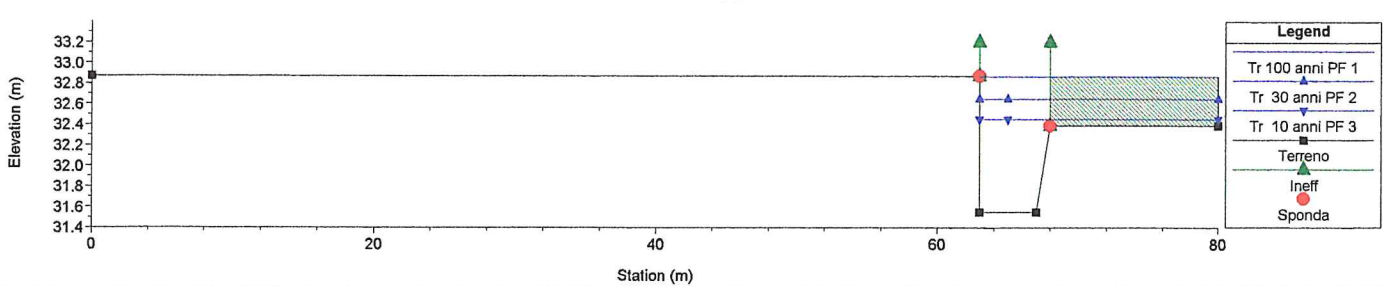
River = Versa Reach = Versa RS = 23.2
ROGGIA VERSA



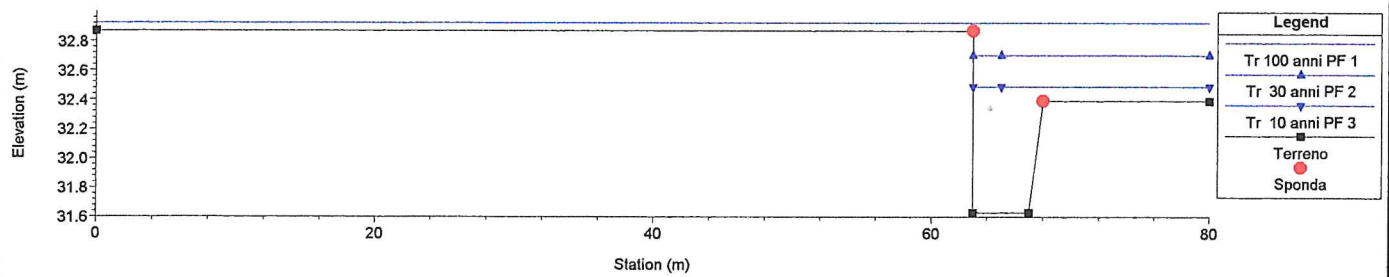
River = Versa Reach = Versa RS = 23.25
ROGGIA VERSA



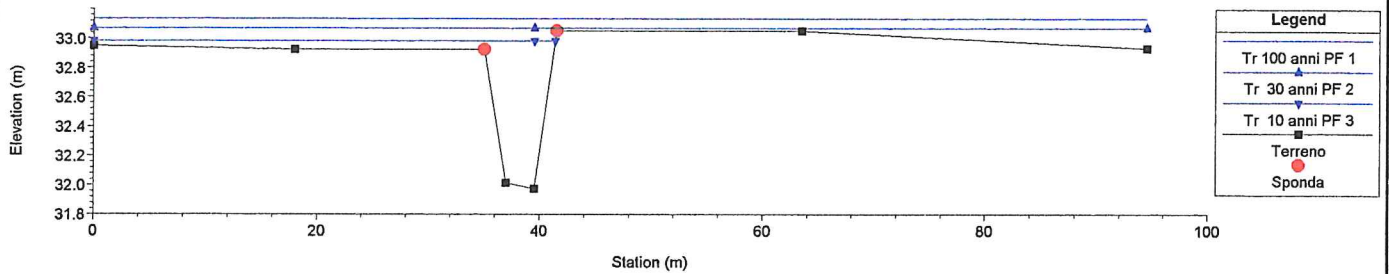
River = Versa Reach = Versa RS = 23.3
ROGGIA VERSA



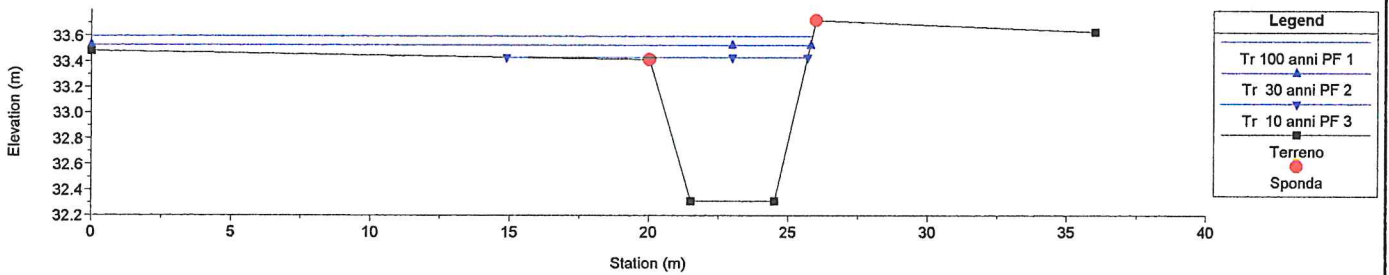
River = Versa Reach = Versa RS = 23.4
ROGGIA VERSA



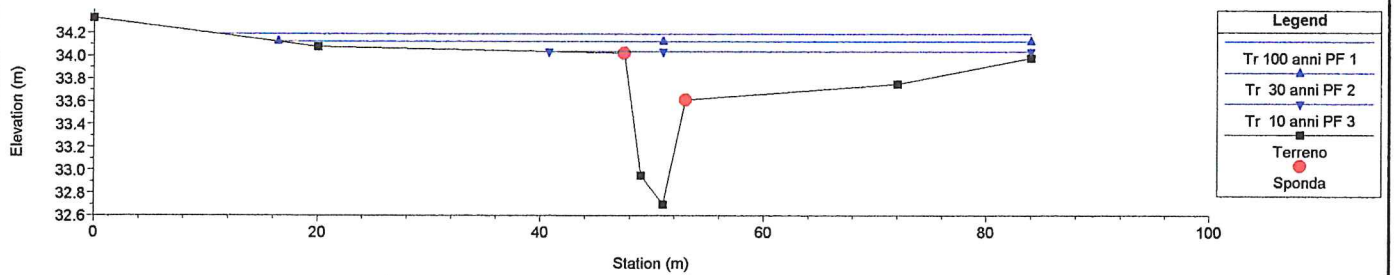
River = Versa Reach = Versa RS = 24
ROGGIA VERSA



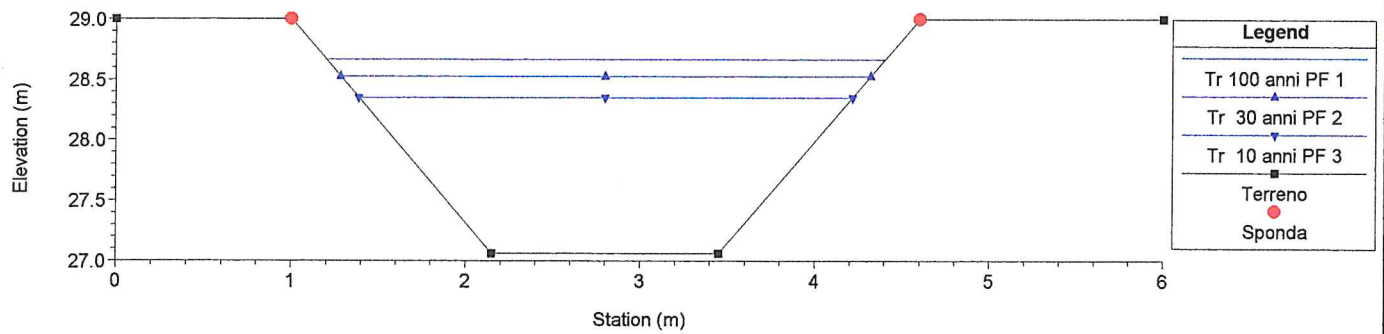
River = Versa Reach = Versa RS = 25
ROGGIA VERSA



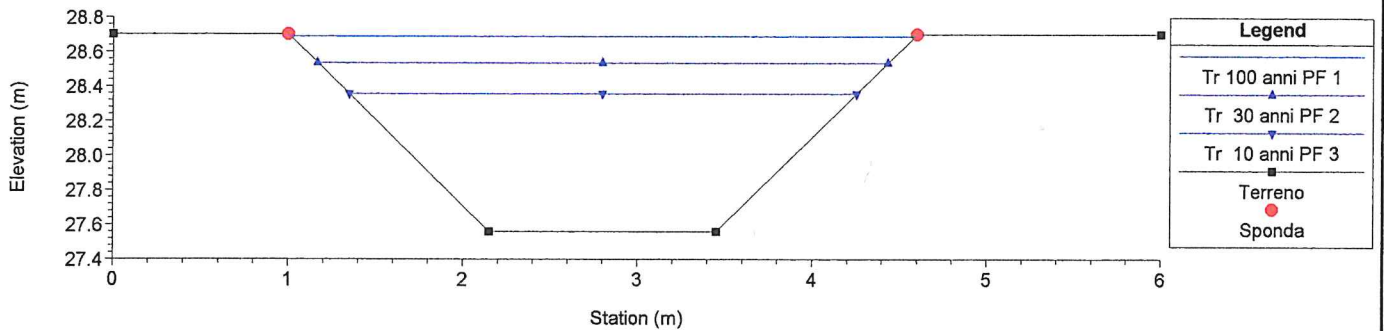
River = Versa Reach = Versa RS = 27
ROGGIA VERSA



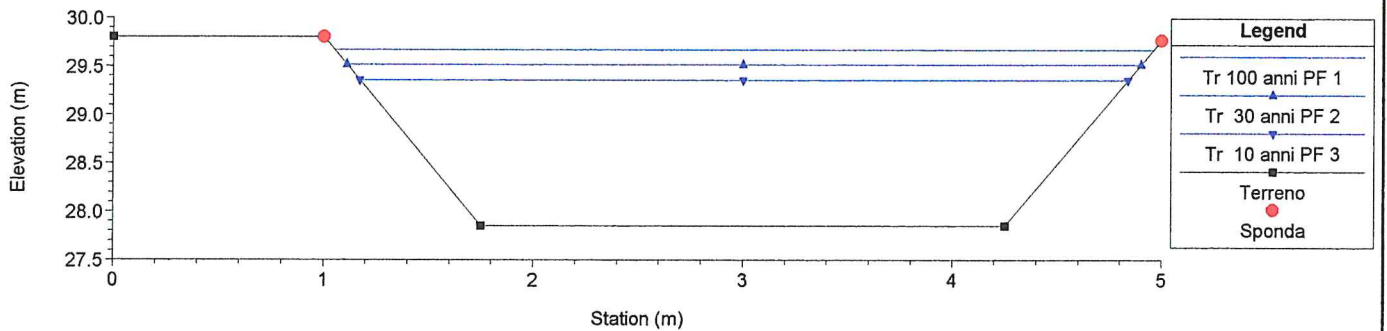
River = versa-mussa Reach = scol s.caterina RS = 1
ROGGIA VERSA



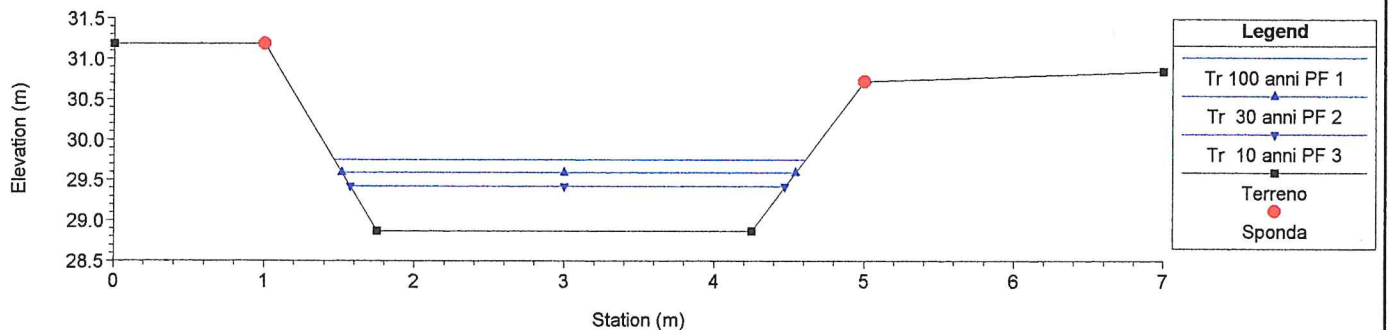
River = versa-mussa Reach = scol s.caterina RS = 2
ROGGIA VERSA



River = versa-mussa Reach = scol camp sport RS = 1
ROGGIA VERSA



River = versa-mussa Reach = scol camp sport RS = 2
ROGGIA VERSA



River = versa-mussa Reach = scol camp sport RS = 3
ROGGIA VERSA

