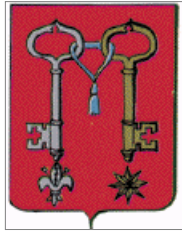


COMUNE DI MONTESPERTOLI



**STUDIO PER LA SISTEMAZIONE IDRAULICO-AMBIENTALE
DELLE PERTINENZE DEI TORRENTI VIRGINIO E BACCAIANO,
TRA BACCAIANO E GINESTRA**

FASCICOLO 2
ESTRATTO
MODELLAZIONI
IDRAULICHE
(TABULATI E SEZIONI)

N. progressivo

111



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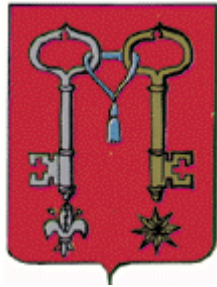
Ing. Andrea Focardi

Ing. Leonardo Faggioli

settembre 2005

Adozione: Del. C.C. n. 81 del 29.07.2010 - Approvazione: Del. C.C. n. 44 del 26.09.2011

COMUNE DI
MONTESPERTOLI



**STUDIO PER LA SISTEMAZIONE IDRAULICO-AMBIENTALE DELLE
PERTINENZE DEI TORRENTI VIRGINIO e BACCAIANO, TRA
BACCAIANO E LA GINESTRA**

**ESTRATTO MODELLAZIONI IDRAULICHE
(TABULATI E SEZIONI)**



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VERIFICHE IDRAULICHE - MODELLO T. VIRGINIO: SCENARIO COLMO DI PIENA Tr=30 anni (Al.To) - Moto permanente										
<i>Sezione</i>	<i>Quota fondo (m)</i>	<i>Quota p.l. (m)</i>	<i>Altezza cr. (m)</i>	<i>Carico tot (m)</i>	<i>J (m/m)</i>	<i>Vel. Canale (m/s)</i>	<i>Sez liquida (m2)</i>	<i>Largh p.l. (m)</i>	<i># Froude</i>	<i>Tensione Tang (N/m2)</i>
100	97.19	99.37	99.26	99.85	0.00729	3.2	38.22	33.29	0.82	107.53
99.3	96.96	99.52	98.83	99.71	0.00242	1.93	57.03	33.78	0.47	38.14
99.2	Bridge									
99.1	96.91	98.59	98.87	99.54	0.02214	4.55	27.06	31.56	1.37	240.49
98	96.29	98.55	98.55	99.21	0.01116	3.98	32.2	26.7	0.99	165.49
97	95.55	97.34	97.51	98.12	0.01899	4.33	29.49	29.89	1.22	214.93
96	94.54	96.34	96.34	96.9	0.01242	3.31	33.25	30.58	1.01	129
95	94.04	96.07	95.77	96.4	0.00579	2.64	43.53	33.18	0.71	76.15
94	93.1	95.57	95.33	95.96	0.00663	2.79	40.14	35.25	0.76	85.63
93	92.31	94.55	94.55	95.19	0.00972	3.69	32.82	26.88	0.95	142.89
92	91.48	94.41	93.52	94.55	0.00135	1.72	73.43	56.31	0.38	27.7
91	90.82	94.37		94.51	0.00109	1.77	71.71	35.84	0.34	27.43
90	90.79	94.3		94.46	0.00137	1.88	71.14	48.68	0.38	31.86
89.3	90.74	94	93.08	94.41	0.00416	2.94	43.8	36.34	0.54	82.01
89.2	Bridge									
89.1	90.69	93.26	93.26	94.12	0.01102	4.16	27.93	18.79	0.88	176.29
88	90.4	92.21	92.69	93.61	0.03057	5.26	21.14	25.5	1.58	323.91
87	89.58	91.24	91.24	91.74	0.01076	3.21	36.91	38.63	0.95	119.19
86	88.33	90.02	89.69	90.23	0.00385	2.22	57.17	56.13	0.6	52.76
85	87.6	89.46	89.43	89.83	0.00988	3.48	43.24	48.11	0.93	131.14
84	86.5	87.9	87.89	88.33	0.01348	3.18	38.78	45.35	1.04	123.82
83	85.48	87.06		87.27	0.00754	2.05	53.7	70.05	0.75	55.47
82	84.62	86.42		86.67	0.00542	2.3	53.65	60.83	0.68	60.87
81	83.61	85.64	85.44	86.03	0.00722	2.77	39.65	31.6	0.79	86.49
80	83.2	85.41	84.83	85.64	0.00324	2.16	51.02	30.42	0.53	48.52
79.3	82.48	85.48	83.88	85.59	0.00081	1.47	74.85	28.23	0.29	19.32
79.2	Inl Struct									
79.1	81.17	83.91		84.12	0.00239	2.06	53.29	27.28	0.47	42.1
78	81.07	83.55	83.41	84.03	0.00875	3.06	35.96	28.34	0.87	105.07
77	81.01	83.06	83.06	83.56	0.01298	3.15	34.88	35.66	1.02	121.37
76.3	81.11	83.09	82.34	83.21	0.00167	1.61	70.26	45.81	0.4	26.44
76.2	81.1	83.08		83.21	0.00163	1.58	71.68	47.27	0.39	25.52
76.1	80.61	83.1		83.2	0.00128	1.35	81.78	52.98	0.35	18.95

VERIFICHE IDRAULICHE - MODELLO T. VIRGINIO: SCENARIO COLMO DI PIENA Tr=30 anni (Al.To) - Moto permanente										
<i>Sezione</i>	<i>Quota fondo</i> (m)	<i>Quota p.l.</i> (m)	<i>Altezza cr.</i> (m)	<i>Carico tot</i> (m)	<i>J</i> (m/m)	<i>Vel. Canale</i> (m/s)	<i>Sez liquida</i> (m ²)	<i>Largh p.l.</i> (m)	<i># Froude</i>	<i>Tensione Tang</i> (N/m ²)
75	80.47	82.58	82.55	83.1	0.00892	3.32	36.28	34.32	0.89	119.36
74	79.53	81.52	81.52	81.96	0.01243	2.96	37.94	44.95	0.99	109.25
73	78.89	80.94	80.6	81.2	0.00474	2.26	48.74	38.6	0.64	57.1
72	78	80.01	79.97	80.51	0.00904	3.25	37.33	36.01	0.9	116.14
71	76.84	79.26		79.68	0.00629	2.95	39.84	29.68	0.74	91.6
70	76.05	78.71		79.1	0.00593	2.78	48.47	35.28	0.73	82.55
69	75.47	78.16		78.52	0.00462	2.65	50.88	33.01	0.66	72.3
68	74.91	77.84	77.35	78.14	0.00400	2.45	55.32	38.93	0.62	62.01
67	74.22	77.03	76.88	77.63	0.00643	3.51	41.74	31.45	0.79	119.72
66	73.64	76.14	76.14	76.84	0.00899	3.78	37.89	29.3	0.92	145.01
65.3	73.54	76.28	75.88	76.64	0.00375	2.73	54.25	35.98	0.62	71.76
65.2	Bridge									
65.1	73.52	75.64	75.84	76.51	0.01682	4.19	33.51	34.44	1.2	198.06
64	73.43	75.7	75.58	76.19	0.00682	3.36	46.41	35.76	0.82	113.86
63	72.74	74.9	74.8	75.45	0.00834	3.41	42.23	31.27	0.88	122.21
62	71.93	73.93	73.93	74.54	0.01028	3.56	40.15	33.2	0.97	137.09
61	71.57	73.88	73.08	73.99	0.00139	1.55	90.58	56.76	0.37	23.87
60	70.96	73.04	73.04	73.71	0.00925	3.74	39.33	32.02	0.94	143.96
59	70.34	72.86	72.17	72.98	0.00170	1.58	95.22	96.82	0.4	25.95
58	69.83	72.72		72.88	0.00236	2.03	87.92	87.12	0.48	41.03
57	69.7	72.59		72.77	0.00215	2.3	82.74	64.19	0.46	48.15
56	68.99	72.58		72.67	0.00088	1.44	124.44	124.62	0.3	19.2
55	68.66	72.6		72.63	0.00029	0.93	220.47	185.82	0.18	7.53
54	68.58	72.58		72.61	0.00020	0.81	202.63	96.84	0.15	5.51
53.3	68.84	72.58	71.01	72.61	0.00025	0.84	183.2	89	0.17	6.2
53.2	Bridge									
53.1	68.84	70.98	70.98	71.4	0.00701	3.25	54.02	60.89	0.82	109.02
52	68.04	70.53	70.62	71.16	0.01017	3.56	42	57.62	0.96	136.89
51	67.63	70.01	69.97	70.41	0.00754	3.02	53.27	58.39	0.79	99.34
50.3	67.09	70.16	68.64	70.29	0.00098	1.61	98.46	70.53	0.3	23.26
50.2	Inl Struct									
50.1	66.35	68.74		69.03	0.00284	2.39	56.05	25.47	0.51	54.82
49	65.58	68.53	68.09	68.95	0.00491	2.85	47.02	25.91	0.68	81.77

VERIFICHE IDRAULICHE - MODELLO T. VIRGINIO: SCENARIO COLMO DI PIENA Tr=30 anni (Al.To) - Moto permanente										
<i>Sezione</i>	<i>Quota fondo (m)</i>	<i>Quota p.l. (m)</i>	<i>Altezza cr. (m)</i>	<i>Carico tot (m)</i>	<i>J (m/m)</i>	<i>Vel. Canale (m/s)</i>	<i>Sez liquida (m2)</i>	<i>Largh p.l. (m)</i>	<i># Froude</i>	<i>Tensione Tang (N/m2)</i>
48	65.45	68.43		68.71	0.00241	2.36	58.31	29.94	0.49	51.65
47	65.14	68.09	67.75	68.51	0.00564	2.87	46.67	28.62	0.72	85.62
46	64.88	67.56	67.45	68.14	0.00758	3.48	41.36	28.37	0.84	123.18
45	64.68	67.42	67.08	67.9	0.00535	3.12	44.59	26.44	0.71	95.53
44	64.28	67.08	67.08	67.58	0.00720	3.18	47.82	68.09	0.8	105.9
43	63.82	66.82	66.68	66.95	0.00219	2.01	114.72	185.65	0.45	39.51
42	62.92	66.47	66.47	66.7	0.00362	2.46	89.58	188.57	0.57	60.77
41	62.46	66	65.72	66.24	0.00298	2.35	80.45	113.53	0.52	53.95
40	61.88	64.91	64.91	65.75	0.01161	4.05	33.09	19.84	1	171.73
39	61.27	64.88	63.6	65.02	0.00126	1.7	86.91	77.46	0.35	26.7
38.3	60.65	64.85	63.79	65.01	0.00159	1.75	76.62	37.22	0.39	29.63
38.2	Bridge									
38.1	60.61	64.72	63.86	64.97	0.00259	2.22	60.34	27.56	0.48	47.95
37	60.88	64.22	63.79	64.79	0.00607	3.35	40.17	21.68	0.75	109.78
36	60.5	63.41	63.41	64.25	0.01107	4.06	32.98	19.62	1	170.59
35	60.07	63.42	62.74	63.71	0.00324	2.38	56.31	29.77	0.55	56.24
34	59.79	62.47	62.47	63.27	0.01163	3.97	33.78	21.37	1.01	166.61
33	59.45	61.8	61.86	62.56	0.01131	4.03	36.93	30.32	1.01	169.14
32	59.28	61.47	61.5	62.06	0.00972	3.85	42.91	37.3	0.93	152.55
31	58.64	60.77	60.85	61.65	0.01688	4.32	34.18	32.65	1.19	207.64
30	58.2	60.86	60.58	60.92	0.00151	1.3	132.96	152.45	0.36	18.8
29	58.07	60.7	60.41	60.82	0.00205	1.79	106.51	135.81	0.43	32.59
28	57.75	60.63		60.74	0.00175	1.62	106.11	116.02	0.4	27.07
27	57.46	60.09	60.09	60.55	0.00602	3.15	52.79	66.74	0.74	100.22
26	56.69	58.9	59.18	59.93	0.02084	4.56	31.07	31.65	1.32	237.95
25	56.01	58.69	58.69	59.23	0.00697	3.82	48.09	43.84	0.84	138.52
24	55.45	57.84	57.98	58.61	0.01646	3.88	34.51	30.67	1.17	175.97
23	54.92	58.09	57.24	58.14	0.00071	1.27	161.45	164.45	0.27	15.01
22	54.17	57.65		58.03	0.00355	2.77	50.79	27.05	0.57	72.3
21	54.26	57.25		57.79	0.00476	3.32	42.84	19.7	0.7	101.94
20	53.83	56.83		57.56	0.00694	3.91	36.57	17.08	0.82	143.3
19	53.43	56.81		57.22	0.00368	2.94	48.03	20.87	0.61	79.74
18	53.45	56.4		57.01	0.00591	3.44	38.97	18.39	0.75	113.58

VERIFICHE IDRAULICHE - MODELLO T. VIRGINIO: SCENARIO COLMO DI PIENA Tr=30 anni (Al.To) - Moto permanente										
<i>Sezione</i>	<i>Quota fondo (m)</i>	<i>Quota p.l. (m)</i>	<i>Altezza cr. (m)</i>	<i>Carico tot (m)</i>	<i>J (m/m)</i>	<i>Vel. Canale (m/s)</i>	<i>Sez liquida (m2)</i>	<i>Largh p.l. (m)</i>	<i># Froude</i>	<i>Tensione Tang (N/m2)</i>
17	52.97	55.6	55.54	56.51	0.00881	4.33	32.97	17.97	0.95	177.32
16	52.33	55.14	55.1	55.91	0.01065	3.88	34.71	21.49	0.97	157.67
15	52.33	54.85	54.67	55.53	0.00843	3.65	36.69	20.22	0.87	135.79
14	52.11	54.75		55.14	0.00414	2.76	49.09	24.95	0.61	74.66
13.3	51.87	54.84	53.61	55.07	0.00178	2.13	63.63	24.9	0.41	40.93
13.2	Inl Struct									
13.1	50.37	53.63		53.98	0.00264	2.66	53.54	22.68	0.51	63.27
12	50.61	53.69		53.91	0.00247	2.09	64.43	36.39	0.49	43.35
11	50.48	53.48		53.82	0.00375	2.77	58.16	42.98	0.62	73.11
10.3	50.46	53.5	52.98	53.8	0.00289	2.71	60.31	36.92	0.55	66.24
10.2	Bridge									
10.1	50.45	53.43		53.69	0.00359	2.3	58.33	35.25	0.57	54.73
9	49.75	53.21		53.57	0.00362	2.73	56.59	46.18	0.59	70.91
8	49.8	53.03		53.39	0.00367	2.74	58.32	62.58	0.6	71.69
7	49.67	52.8		53.15	0.00343	2.74	57.33	45.85	0.59	70.47
6	49.26	52.27		52.92	0.00660	3.59	37.35	17.89	0.79	124.43
5	48.97	52.07		52.56	0.00432	3.2	45.95	29.5	0.66	94.41
4	48.63	51.92	51.14	52.29	0.00330	2.72	51.01	27.8	0.57	69.07
3	48.35	51.61	50.98	52.1	0.00411	3.13	46.96	31.16	0.64	90.16
2	47.95	50.88	50.88	51.75	0.00873	4.16	33.74	24.47	0.89	166.36
1	47.25	49.23	49.67	50.69	0.03045	5.36	24.98	21.44	1.59	333.18
0	45.92	50	48.48	50.13	0.00107	1.69	87.33	43.6	0.31	25.52

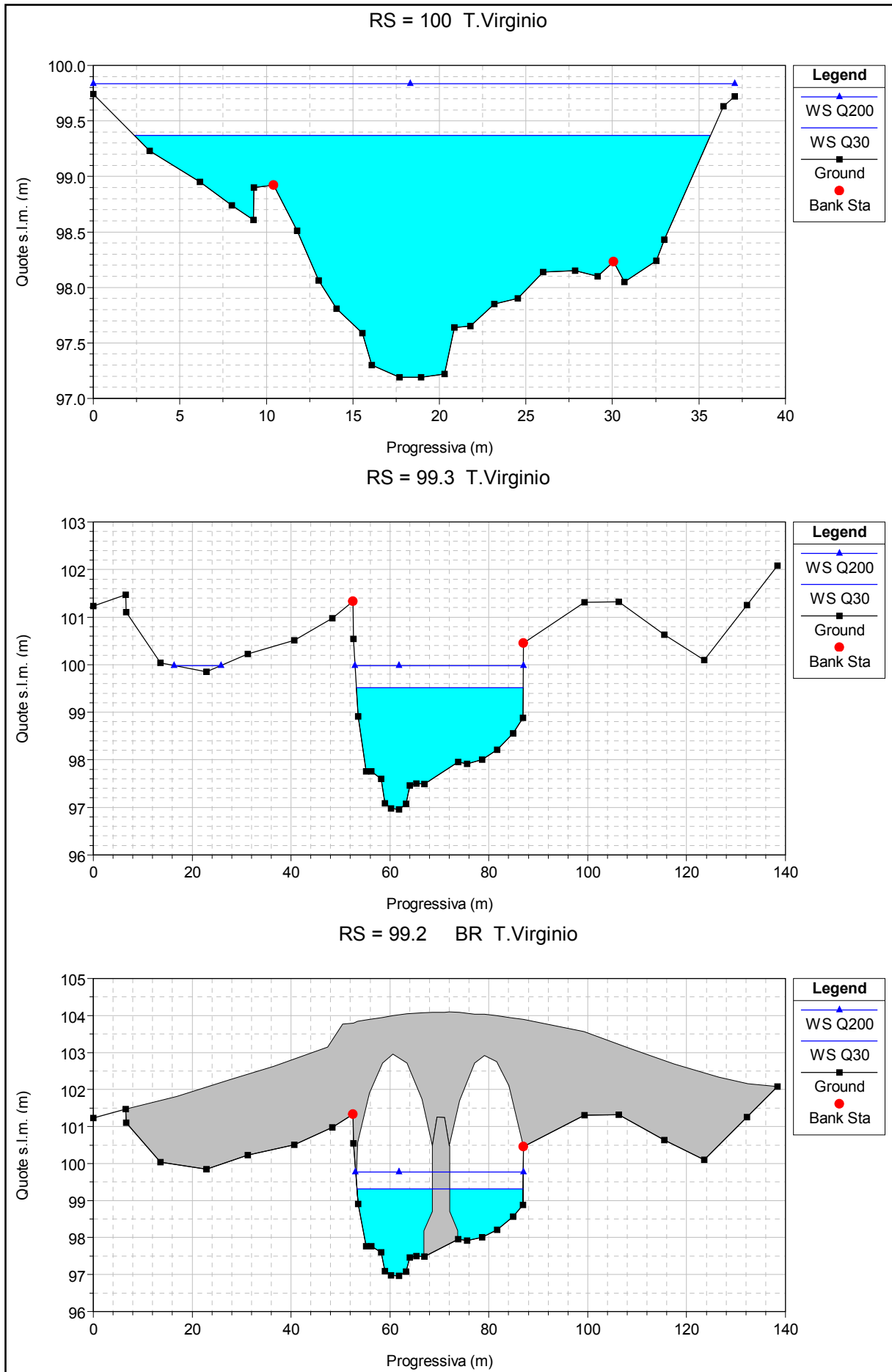
VERIFICHE IDRAULICHE - MODELLO T. VIRGINIO: SCENARIO COLMO DI PIENA Tr=200 anni (Al.To) - Moto permanente										
<i>Sezione</i>	<i>Quota fondo alveo (m)</i>	<i>Quota pelo libero (m)</i>	<i>Altezza critica (m)</i>	<i>Carico totale (m)</i>	<i>J (carico tot.) (m/m)</i>	<i>V. media Canale (m/s)</i>	<i>Sez liquida (m2)</i>	<i>Largh pelo libero (m)</i>	<i>n ° di Froude</i>	<i>Tensione Tang (N/m2)</i>
100	97.19	99.83	99.67	100.4	0.00630	3.55	54.75	37.08	0.8	120.97
99.3	96.96	99.98	99.18	100.26	0.00261	2.32	73.52	43.55	0.51	51.16
99.2	Bridge									
99.1	96.91	99.72		100.1	0.00366	2.95	64.77	33.44	0.63	79.84
98	96.29	99.22	99.22	99.85	0.00754	4.11	55.46	45.2	0.86	157.77
97	95.55	97.65	97.87	98.67	0.01924	4.96	38.81	30.57	1.26	264.1
96	94.54	96.74	96.74	97.42	0.01094	3.66	46.73	37.37	0.99	145.55
95	94.04	96.46	96.14	96.93	0.00589	3.11	56.97	34.28	0.75	97.43
94	93.1	95.95		96.48	0.00668	3.26	53.98	36.39	0.79	108.14
93	92.31	95.08	95.08	95.79	0.00761	3.98	50.27	35.81	0.88	150.81
92	91.48	94.95	93.85	95.11	0.00125	1.92	104.91	58.27	0.37	32.09
91	90.82	94.85		95.07	0.00136	2.21	90.22	40.86	0.39	40.42
90	90.79	94.81		95.01	0.00143	2.17	95.9	48.68	0.4	39.84
89.3	90.74	94.47	94.3	94.96	0.00485	3.37	63.21	43.79	0.59	105
89.2	Bridge									
89.1	90.69	94.04	94.04	94.78	0.00813	4.09	51.17	40.17	0.75	159.28
88	90.4	92.52	93.07	94.31	0.03128	6.02	30.4	32.76	1.65	399.21
87	89.58	91.54	91.58	92.21	0.01089	3.77	48.81	40.08	1	151.97
86	88.33	90.36	90	90.64	0.00387	2.57	76.62	58.42	0.62	65.78
85	87.6	89.73	89.69	90.23	0.01011	3.95	56.72	49.54	0.96	159.96
84	86.5	88.22	88.22	88.75	0.01250	3.71	54.02	52.49	1.05	153.16
83	85.48	87.31	87.12	87.59	0.00719	2.35	71.99	73.87	0.76	67.26
82	84.62	86.83		87.09	0.00396	2.41	79.1	62.81	0.61	60.22
81	83.61	86.16	85.84	86.6	0.00587	2.95	57.27	35.53	0.74	90.11
80	83.2	85.97	85.19	86.27	0.00288	2.43	72.55	40.15	0.52	56.17
79.3	82.48	86.03	84.29	86.21	0.00107	1.86	90.77	32.86	0.34	29.53
79.2	Inl Struct									
79.1	81.17	84.38		84.71	0.00286	2.56	66.13	27.41	0.53	60.68
78	81.07	83.82	83.81	84.58	0.01132	3.87	43.73	29.59	1.01	159.19
77	81.01	83.39	83.39	84.05	0.01164	3.59	47.24	37.92	1.01	143.47
76.3	81.11	83.57	82.64	83.75	0.00165	1.88	92.72	46.36	0.41	33.33

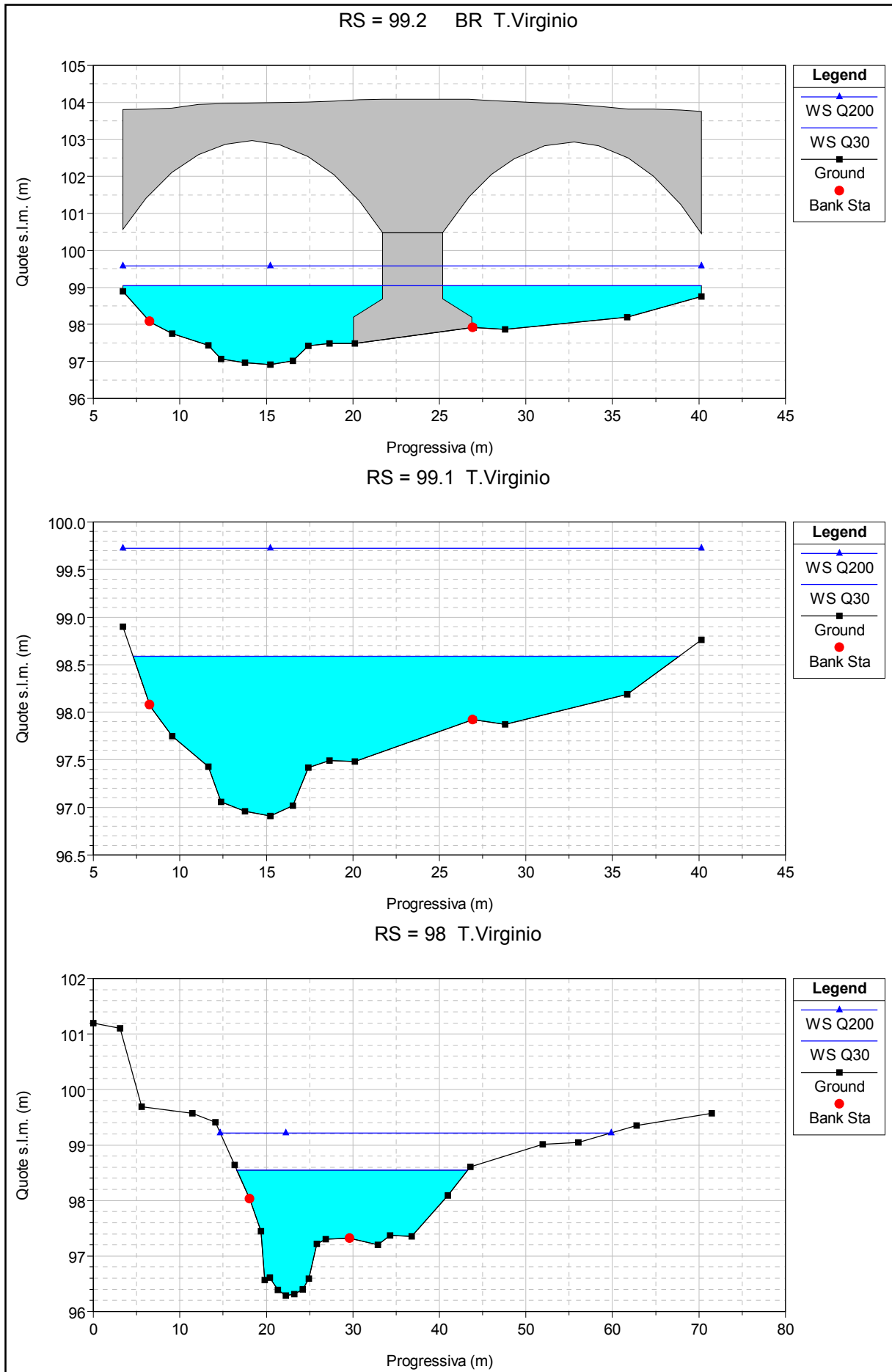
VERIFICHE IDRAULICHE - MODELLO T. VIRGINIO: SCENARIO COLMO DI PIENA Tr=200 anni (Al.To) - Moto permanente										
<i>Sezione</i>	<i>Quota fondo alveo (m)</i>	<i>Quota pelo libero (m)</i>	<i>Altezza critica (m)</i>	<i>Carico totale (m)</i>	<i>J (carico tot.) (m/m)</i>	<i>V. media Canale (m/s)</i>	<i>Sez liquida (m2)</i>	<i>Largh pelo libero (m)</i>	<i>n ° di Froude</i>	<i>Tensione Tang (N/m2)</i>
76.2	81.1	83.57		83.74	0.00158	1.84	94.95	47.88	0.4	31.86
76.1	80.61	83.6		83.72	0.00123	1.56	108.33	53.9	0.35	23.43
75	80.47	82.95	82.95	83.62	0.00865	3.82	49.59	37.6	0.92	146.31
74	79.53	81.71	81.81	82.4	0.01593	3.71	46.77	47.2	1.15	162.82
73	78.89	81.31	80.91	81.68	0.00487	2.67	63.21	39.32	0.67	74.17
72	78	80.42	80.33	81.01	0.00780	3.61	52.39	37.75	0.87	130.81
71	76.84	79.69		80.25	0.00634	3.46	52.97	32.22	0.78	116.64
70	76.05	79.17		79.69	0.00556	3.21	65.04	38.05	0.74	100.8
69	75.47	78.64		79.13	0.00455	3.12	67.14	35.76	0.69	91.85
68	74.91	78.4	77.79	78.77	0.00327	2.71	79.69	45.15	0.59	68.43
67	74.22	77.45	77.45	78.27	0.00714	4.2	56.55	38.69	0.86	160.64
66	73.64	76.61	76.68	77.47	0.00838	4.28	53.63	36.33	0.93	172.29
65.3	73.54	76.75	76.33	77.23	0.00393	3.22	71.44	37.65	0.66	92.99
65.2	Bridge									
65.1	73.52	76.03	76.25	77.08	0.01438	4.65	47.49	36.81	1.17	223.21
64	73.43	76.22	75.97	76.78	0.00573	3.67	65.6	37.99	0.78	124.39
63	72.74	75.26	75.23	76.06	0.00931	4.15	53.59	32.21	0.97	168.47
62	71.93	74.34	74.34	75.13	0.00967	4.09	53.8	34.39	0.98	166.87
61	71.57	74.35	73.37	74.47	0.00116	1.66	148.61	107.02	0.35	25.4
60	70.96	73.76	73.76	74.27	0.00489	3.47	79.29	75.04	0.72	109.67
59	70.34	73.29	72.51	73.42	0.00144	1.71	147.14	143.83	0.39	28.1
58	69.83	73.2		73.34	0.00190	2.02	147.82	140.02	0.44	38.56
57	69.7	72.84		73.19	0.00396	3.32	106.33	124.94	0.64	97.37
56	68.99	72.89		73.01	0.00113	1.78	172.22	183.72	0.35	27.98
55	68.66	72.92		72.96	0.00036	1.11	284.28	202.98	0.2	10.32
54	68.58	72.89		72.94	0.00031	1.07	232.46	96.84	0.19	9.34
53.3	68.84	72.88	71.37	72.93	0.00038	1.12	210.14	89	0.21	10.63
53.2	Bridge									
53.1	68.84	71.23	71.23	71.81	0.00817	3.87	70.3	65.95	0.91	147.21
52	68.04	70.87	71.03	71.56	0.00916	3.91	65.67	74.95	0.94	153.33
51	67.63	70.43	70.28	70.85	0.00621	3.2	79.9	70.97	0.74	103.26
50.3	67.09	70.55	69.12	70.72	0.00126	1.99	125.87	71.45	0.35	33.87

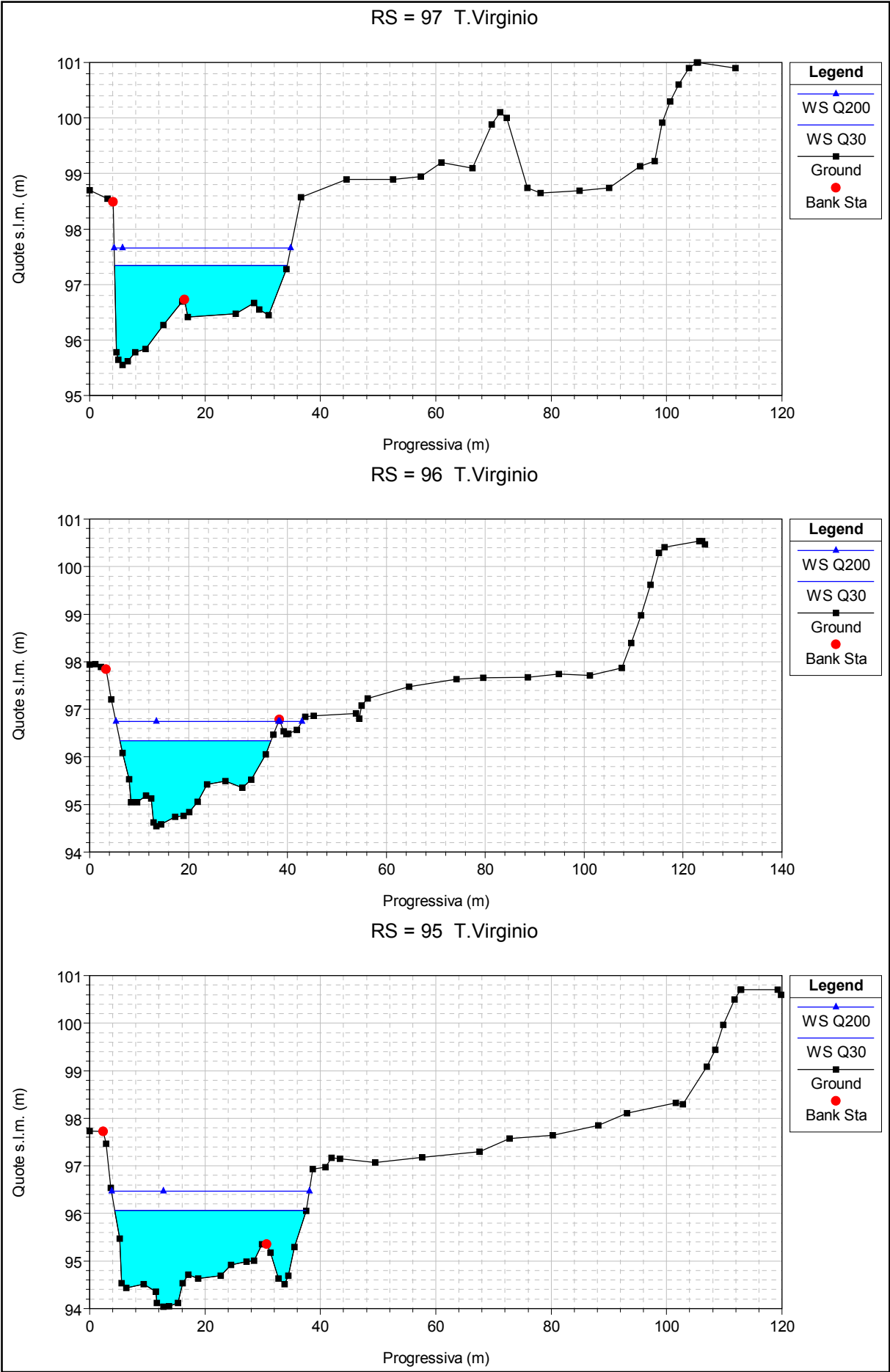
VERIFICHE IDRAULICHE - MODELLO T. VIRGINIO: SCENARIO COLMO DI PIENA Tr=200 anni (Al.To) - Moto permanente

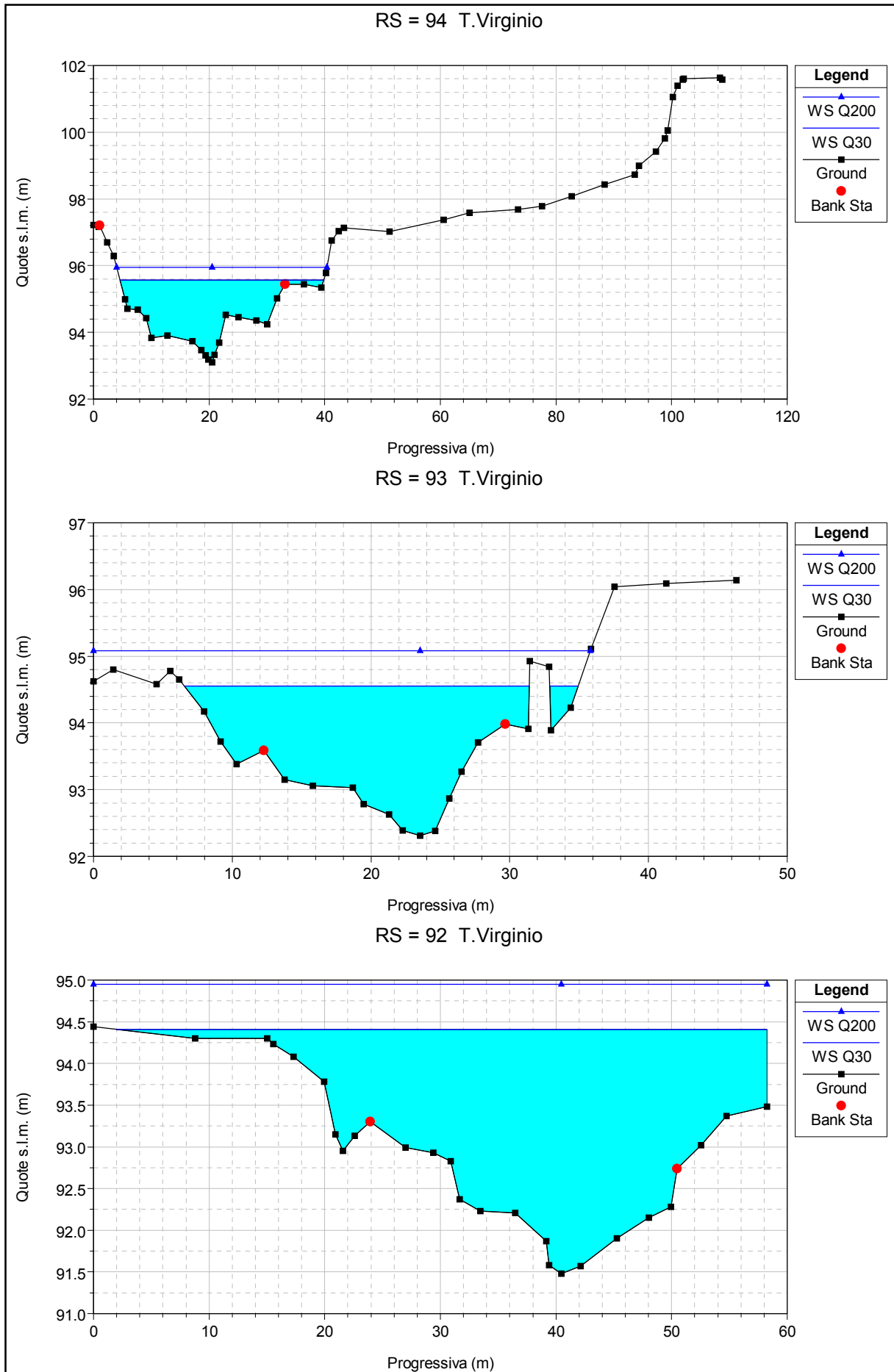
Sezione	Quota fondo alveo (m)	Quota pelo libero (m)	Altezza critica (m)	Carico totale (m)	J (carico tot.) (m/m)	V. media Canale (m/s)	Sez liquida (m2)	Largh pelo libero (m)	n ° di Froude	Tensione Tang (N/m2)
50.2	Inl Struct									
50.1	66.35	69.31		69.73	0.00332	2.88	71.28	26.71	0.56	75.15
49	65.58	69.07	68.58	69.64	0.00518	3.34	61.4	27.6	0.71	105.1
48	65.45	68.97		69.38	0.00268	2.87	76.01	35.25	0.54	70.86
47	65.14	68.61	68.2	69.16	0.00544	3.31	62.59	37.42	0.73	105.07
46	64.88	68.1	67.9	68.82	0.00699	3.93	58.59	39.69	0.84	144.42
45	64.68	67.58	67.58	68.53	0.00943	4.37	49.08	27.85	0.96	182.57
44	64.28	67.38	67.54	67.98	0.00801	3.66	73.8	106.51	0.86	134.66
43	63.82	67.01	66.83	67.16	0.00258	2.29	151.98	203.98	0.5	50.23
42	62.92	66.77		66.94	0.00264	2.32	148.7	199.1	0.5	51.41
41	62.46	66.65	66.15	66.77	0.00134	1.82	159.75	129.34	0.37	30.13
40	61.88	65.91	65.91	66.51	0.00626	3.52	65.95	56.25	0.77	119.52
39	61.27	65.69	64.05	65.8	0.00079	1.61	156.95	88.61	0.29	22.06
38.3	60.65	65.59	64.19	65.79	0.00144	1.95	105.25	40.09	0.38	34.03
38.2	Bridge									
38.1	60.61	65.39	64.3	65.73	0.00262	2.59	79.05	27.93	0.49	60.64
37	60.88	64.56	64.54	65.5	0.00887	4.32	49.13	29.78	0.92	176.92
36	60.5	64.31	64.31	64.97	0.00572	3.7	65.14	60.67	0.76	125.52
35	60.07	64.11	63.2	64.43	0.00265	2.56	84.26	43.84	0.52	59.66
34	59.79	63.03	63.03	64.03	0.01077	4.45	46.34	24.55	1	194.09
33	59.45	62.08	62.35	63.26	0.01452	5.07	45.62	32.18	1.18	254.4
32	59.28	61.85	61.87	62.6	0.00959	4.37	57.32	38.06	0.95	183.29
31	58.64	61.27	60.93	61.4	0.00264	2.1	145.29	154.48	0.49	44.27
30	58.2	61.22	60.61	61.29	0.00126	1.35	189.71	165.33	0.34	19.08
29	58.07	61.09	60.63	61.2	0.00161	1.79	163.57	153.56	0.4	30.72
28	57.75	61.02		61.13	0.00152	1.74	156.86	146.22	0.39	29.16
27	57.46	60.42	60.42	60.95	0.00623	3.58	74.68	67.33	0.78	122.15
26	56.69	59.45	59.6	60.43	0.01276	4.52	48.66	34.34	1.09	207.37
25	56.01	59.1	59.1	59.74	0.00708	4.32	67.42	52.36	0.87	167.29
24	55.45	58.74	58.41	59.21	0.00569	3.07	71.11	70.14	0.74	94.68
23	54.92	58.97		58.99	0.00025	0.93	306.41	168.61	0.17	7.24
22	54.17	58.48		58.92	0.00286	3.03	74.18	32.15	0.54	78.24

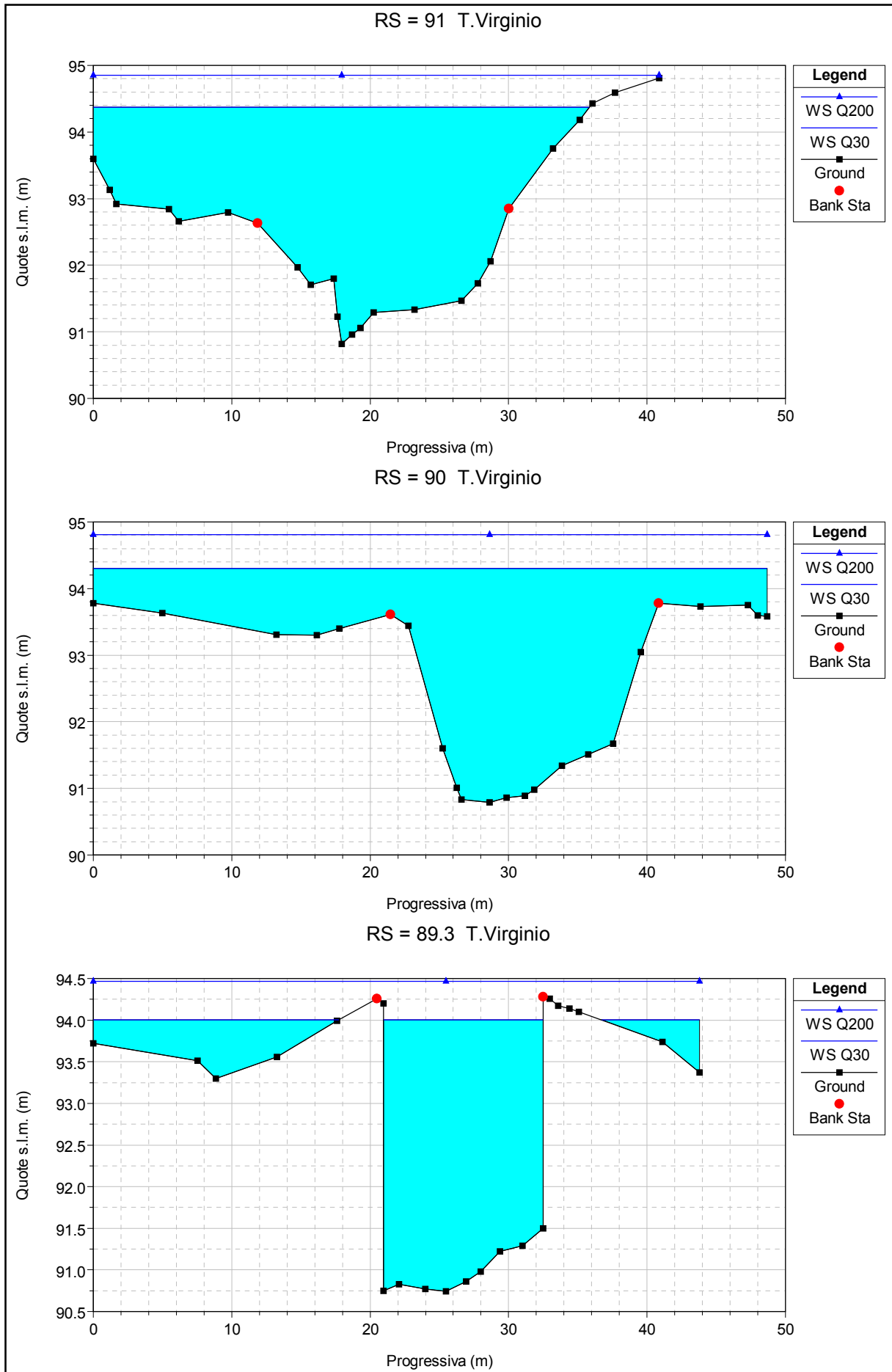
VERIFICHE IDRAULICHE - MODELLO T. VIRGINIO: SCENARIO COLMO DI PIENA Tr=200 anni (Al.To) - Moto permanente										
<i>Sezione</i>	<i>Quota fondo alveo (m)</i>	<i>Quota pelo libero (m)</i>	<i>Altezza critica (m)</i>	<i>Carico totale (m)</i>	<i>J (carico tot.) (m/m)</i>	<i>V. media Canale (m/s)</i>	<i>Sez liquida (m2)</i>	<i>Largh pelo libero (m)</i>	<i>n ° di Froude</i>	<i>Tensione Tang (N/m2)</i>
21	54.26	58.03		58.7	0.00437	3.73	58.7	22.85	0.7	119.08
20	53.83	57.46		58.46	0.00768	4.6	47.6	18.12	0.88	187.68
19	53.43	57.5		58.07	0.00379	3.46	62.87	22.37	0.64	102.38
18	53.45	57.16	56.65	57.88	0.00476	3.78	58.22	33.73	0.71	124.17
17	52.97	56.2	56.2	57.42	0.00871	5.07	44.43	19.42	0.98	223.98
16	52.33	55.39	55.64	56.73	0.01597	5.12	40.28	22.3	1.21	264.35
15	52.33	55.49	55.24	56.33	0.00812	4.07	50.93	30.34	0.87	158.5
14	52.11	55.45		55.94	0.00382	3.15	66.39	24.95	0.6	89.15
13.3	51.87	55.54	54.1	55.88	0.00199	2.58	81.03	24.9	0.44	56.1
13.2	Inl Struct									
13.1	50.37	54.07		54.64	0.00374	3.45	63.58	23.09	0.61	101.54
12	50.61	54.21		54.53	0.00255	2.48	84.08	37.96	0.51	56.28
11	50.48	54.1		54.45	0.00291	2.9	85.13	44.94	0.57	73.7
10.3	50.46	54.06	53.43	54.44	0.00281	3.06	81.59	38.31	0.56	79.24
10.2	Bridge									
10.1	50.45	53.97		54.32	0.00363	2.61	78.57	39.23	0.59	66.42
9	49.75	53.87		54.21	0.00267	2.8	91.89	60.66	0.53	68.28
8	49.8	53.87		54.07	0.00165	2.28	121.26	78.91	0.42	44.63
7	49.67	53.69		53.95	0.00185	2.51	102.07	56.45	0.46	52.9
6	49.26	52.7	52.63	53.73	0.00816	4.52	46.81	23.53	0.9	185.22
5	48.97	52.68		53.25	0.00407	3.61	71.98	47.67	0.66	111.42
4	48.63	52.48	51.82	53	0.00365	3.24	67.29	30.65	0.62	92.1
3	48.35	51.81	51.81	52.71	0.00705	4.32	53.28	31.94	0.84	167.15
2	47.95	51.24	51.53	52.26	0.00949	4.79	55.17	52.69	0.95	209.9
1	47.25	49.8	50.28	51.31	0.02041	5.44	37.79	25.88	1.36	307.85
0	45.92	50	48.89	50.3	0.00250	2.59	87.33	43.6	0.48	59.74

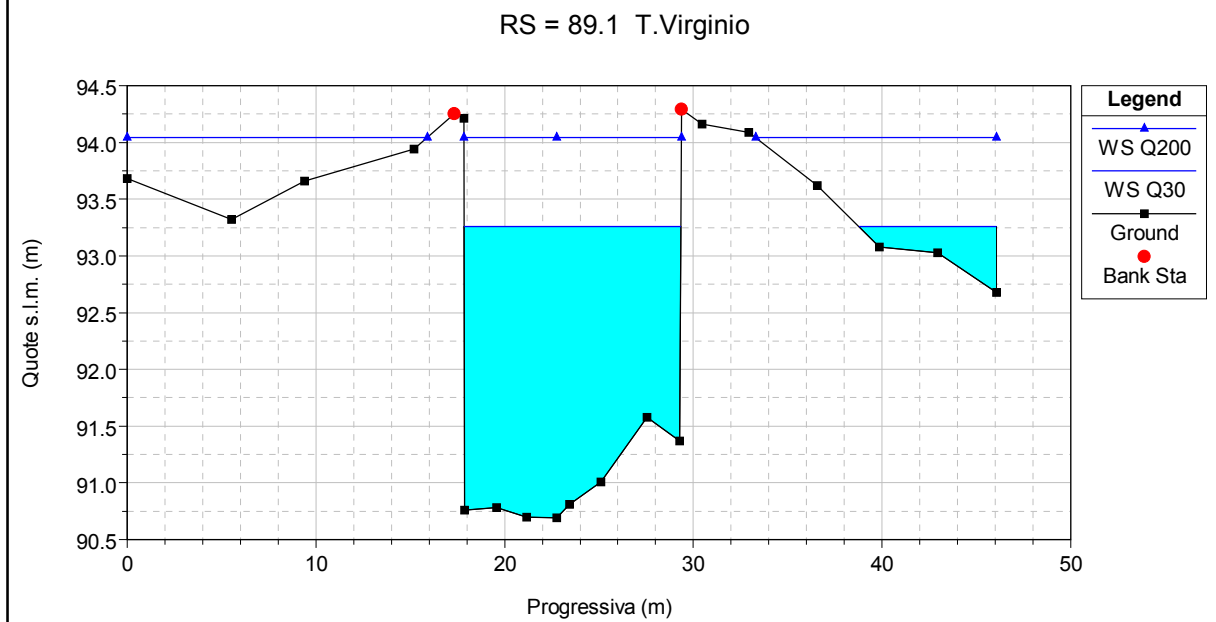
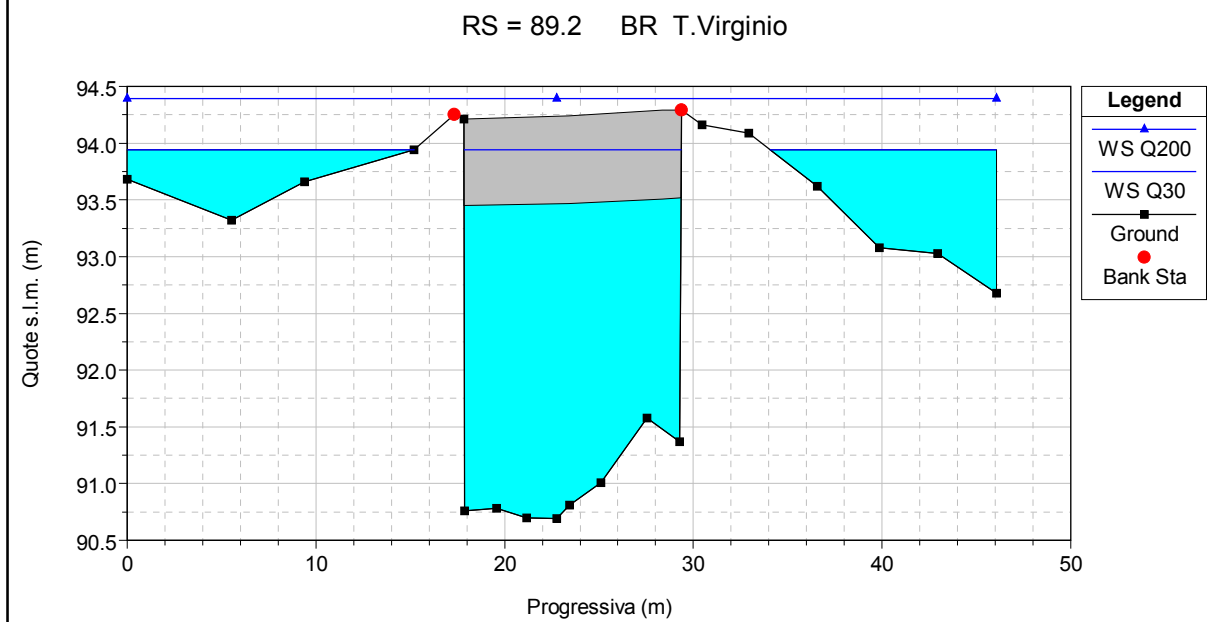
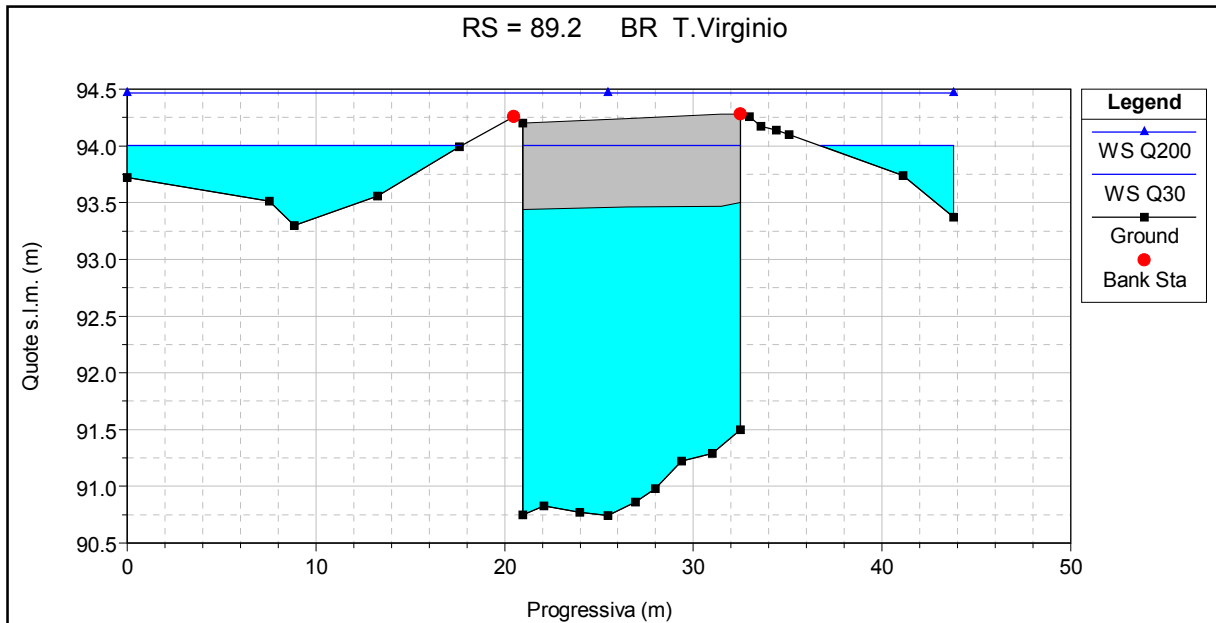




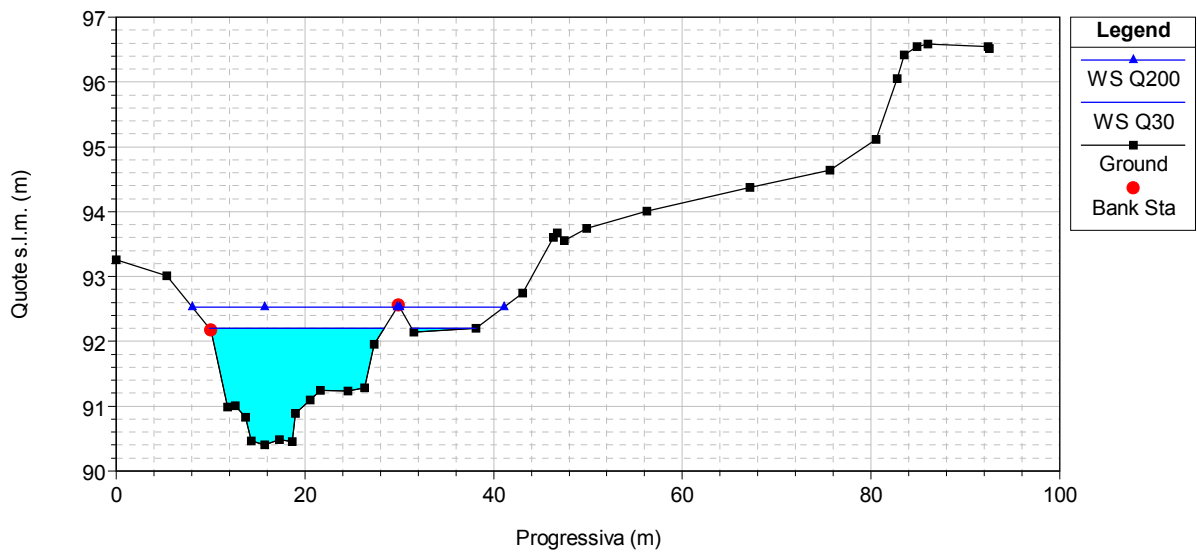




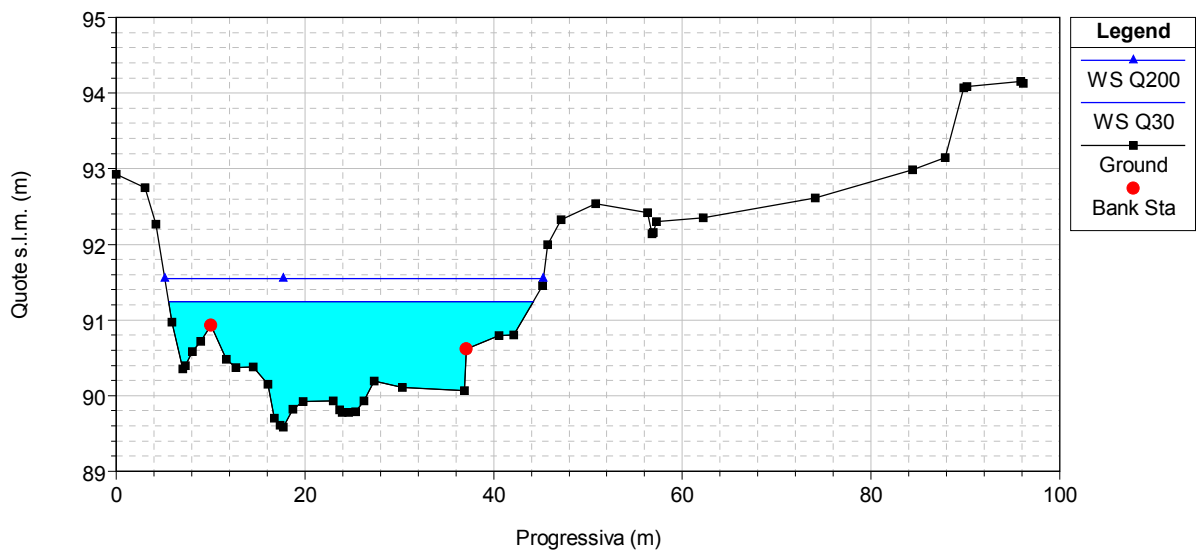




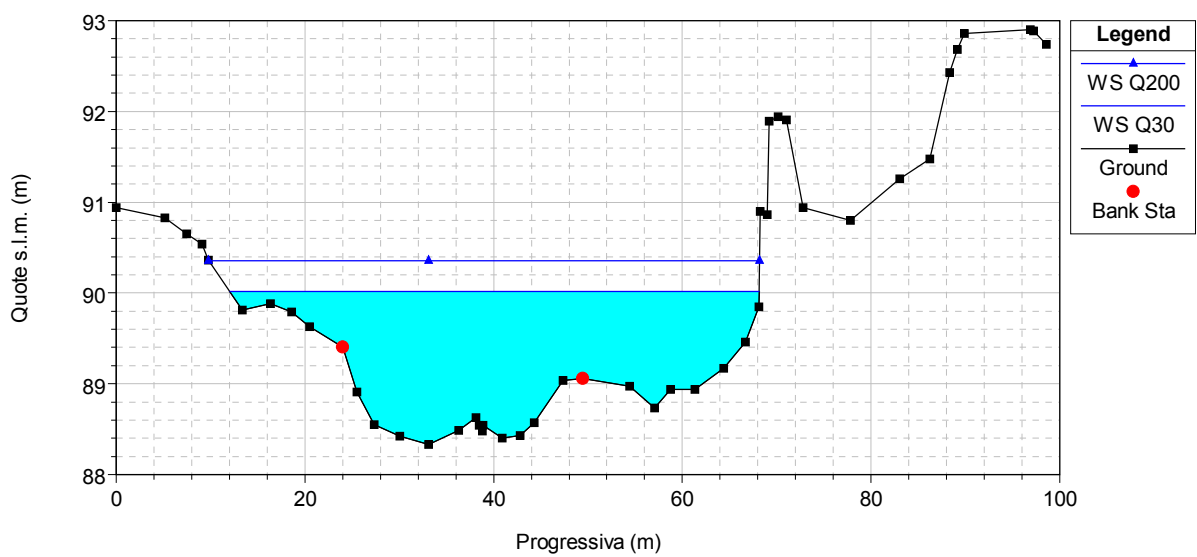
RS = 88 T.Virginio



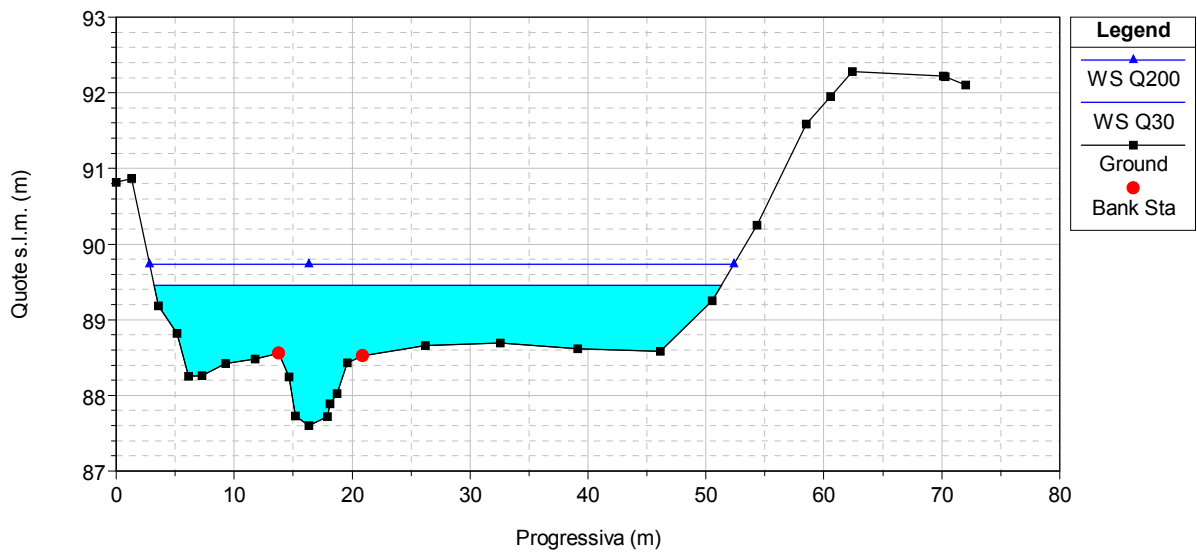
RS = 87 T.Virginio



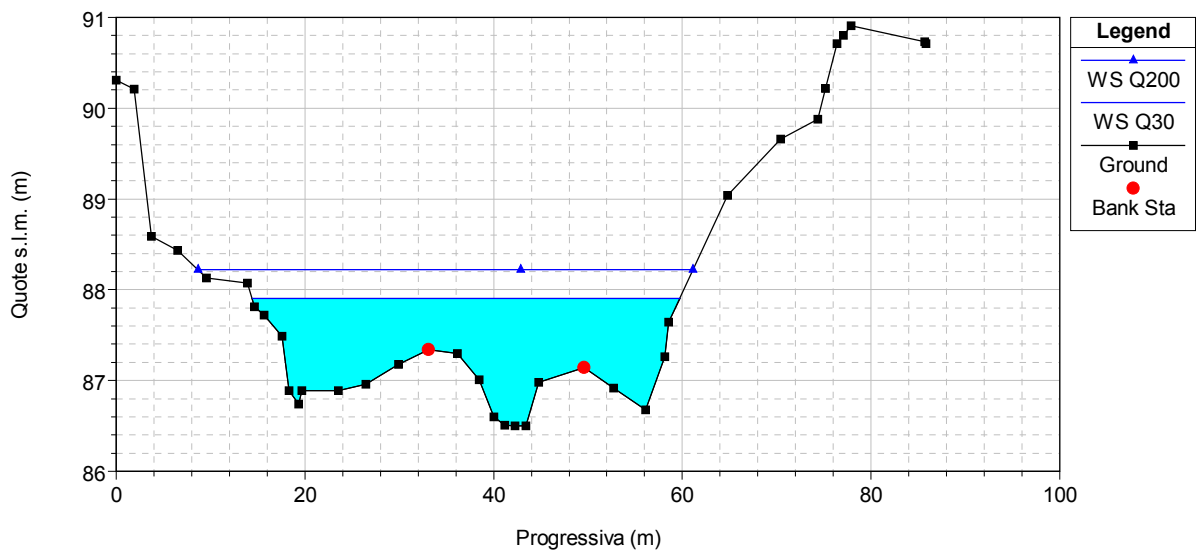
RS = 86 T.Virginio



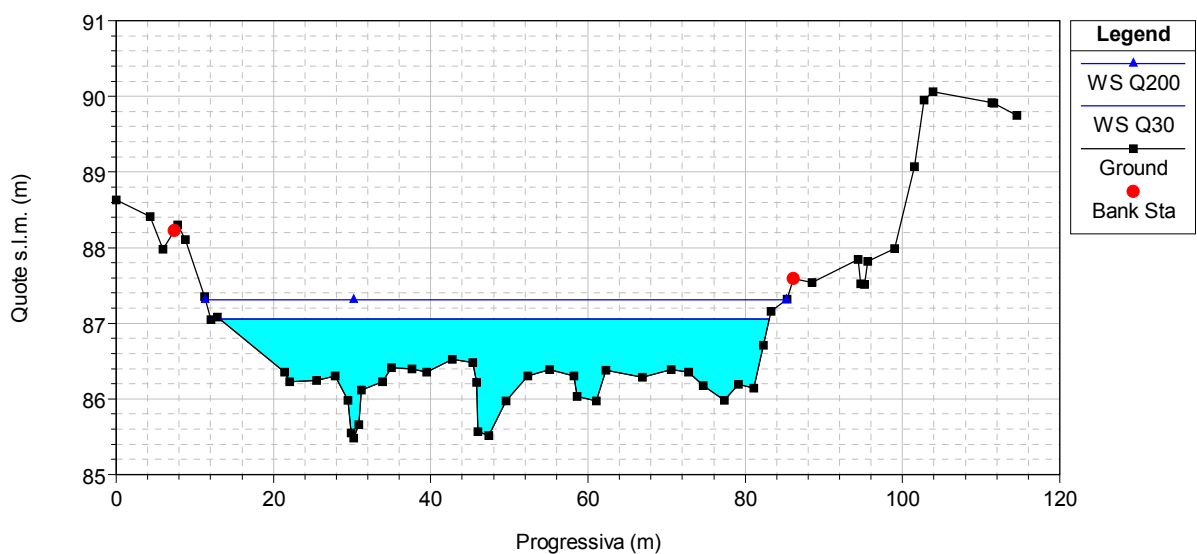
RS = 85 T.Virginio



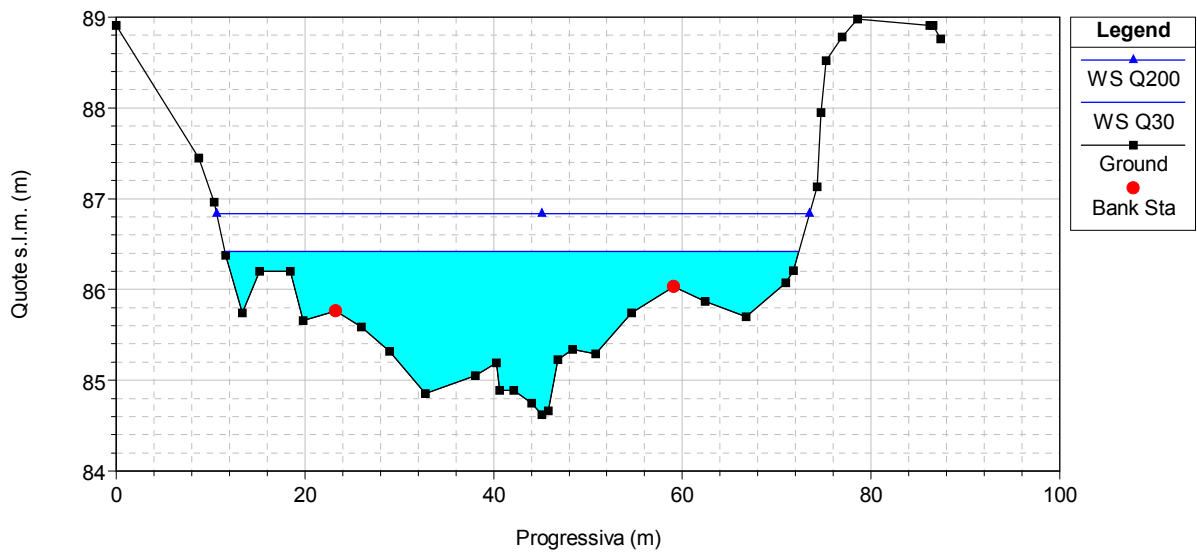
RS = 84 T.Virginio



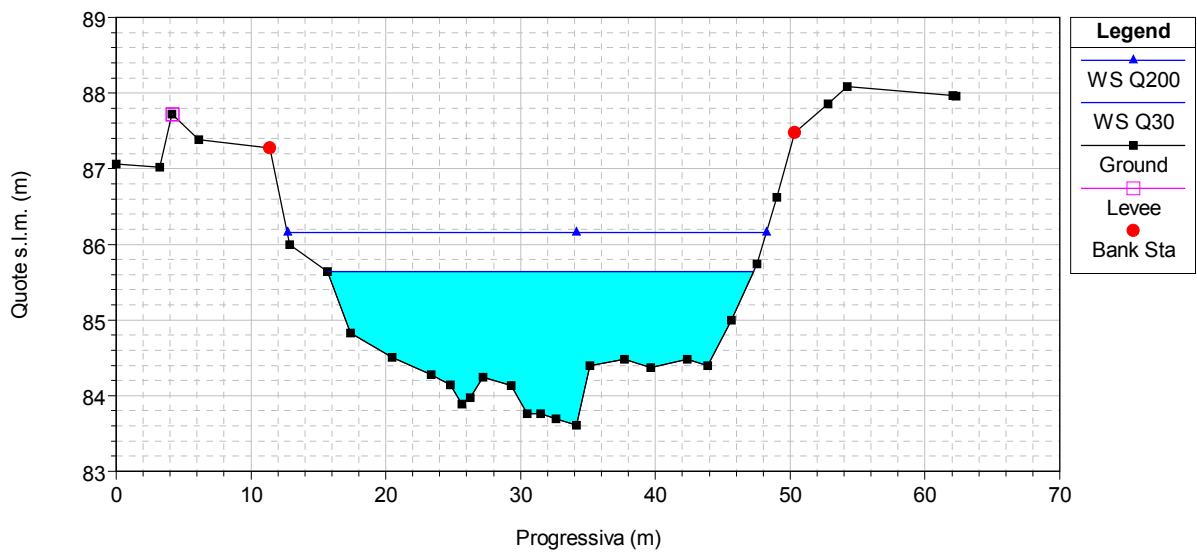
RS = 83 T.Virginio



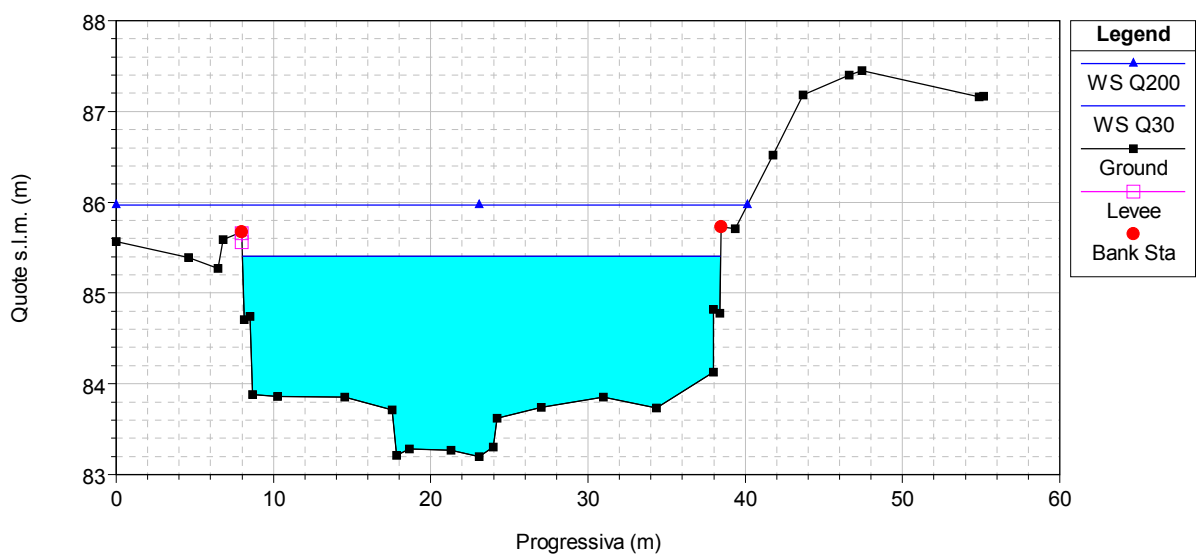
RS = 82 T.Virginio

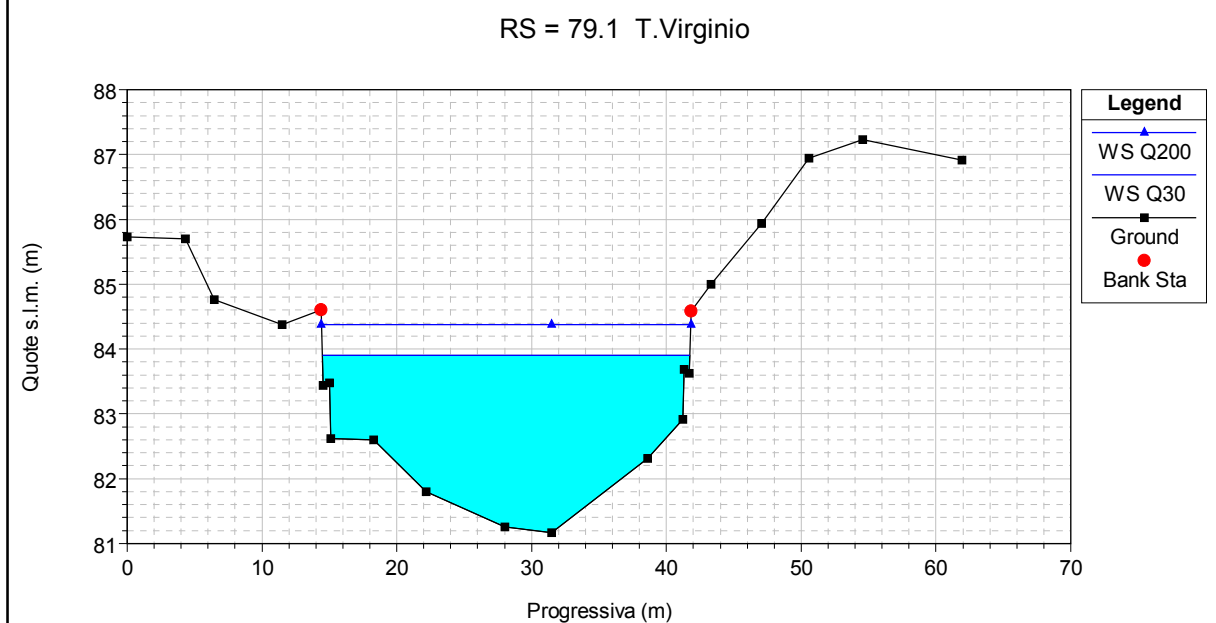
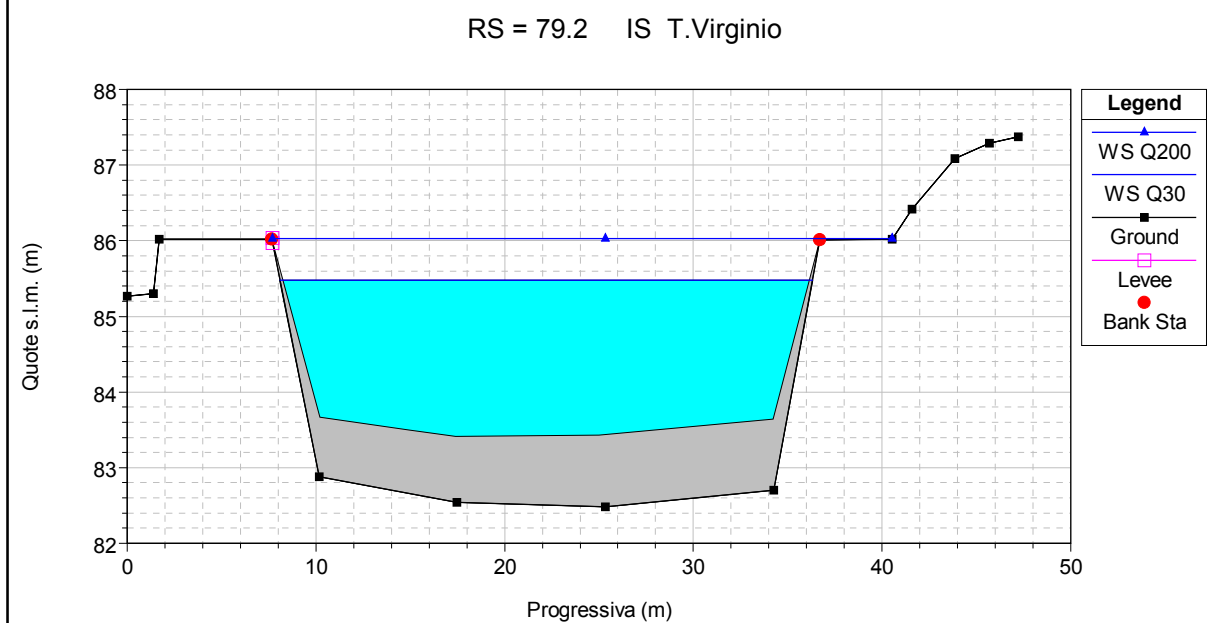
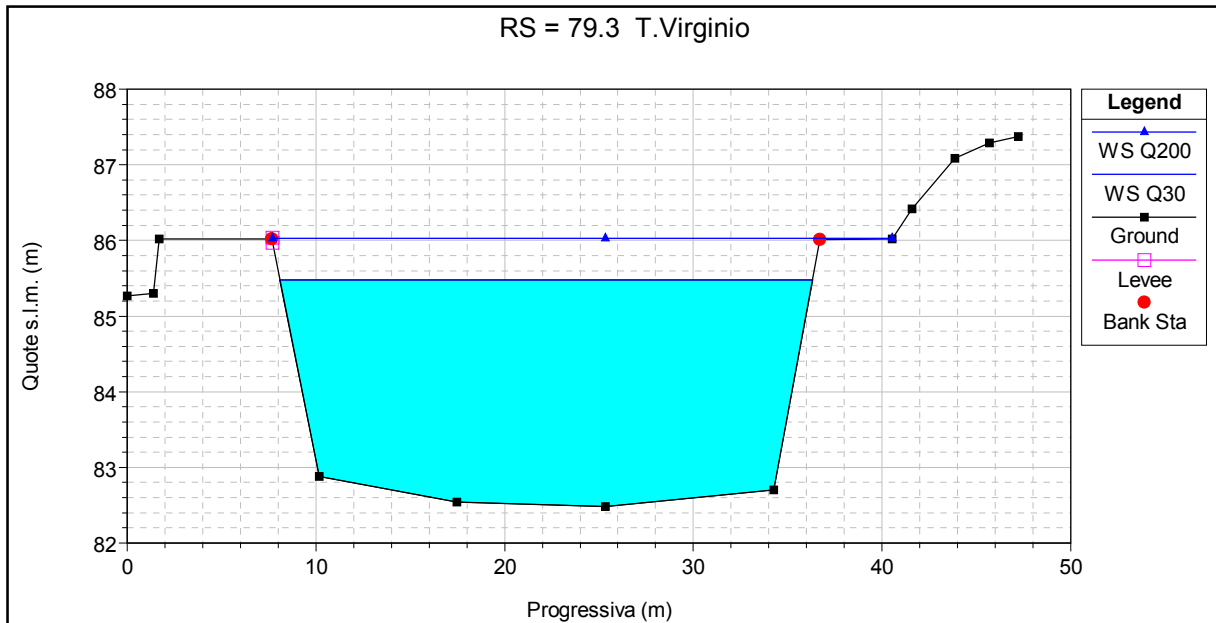


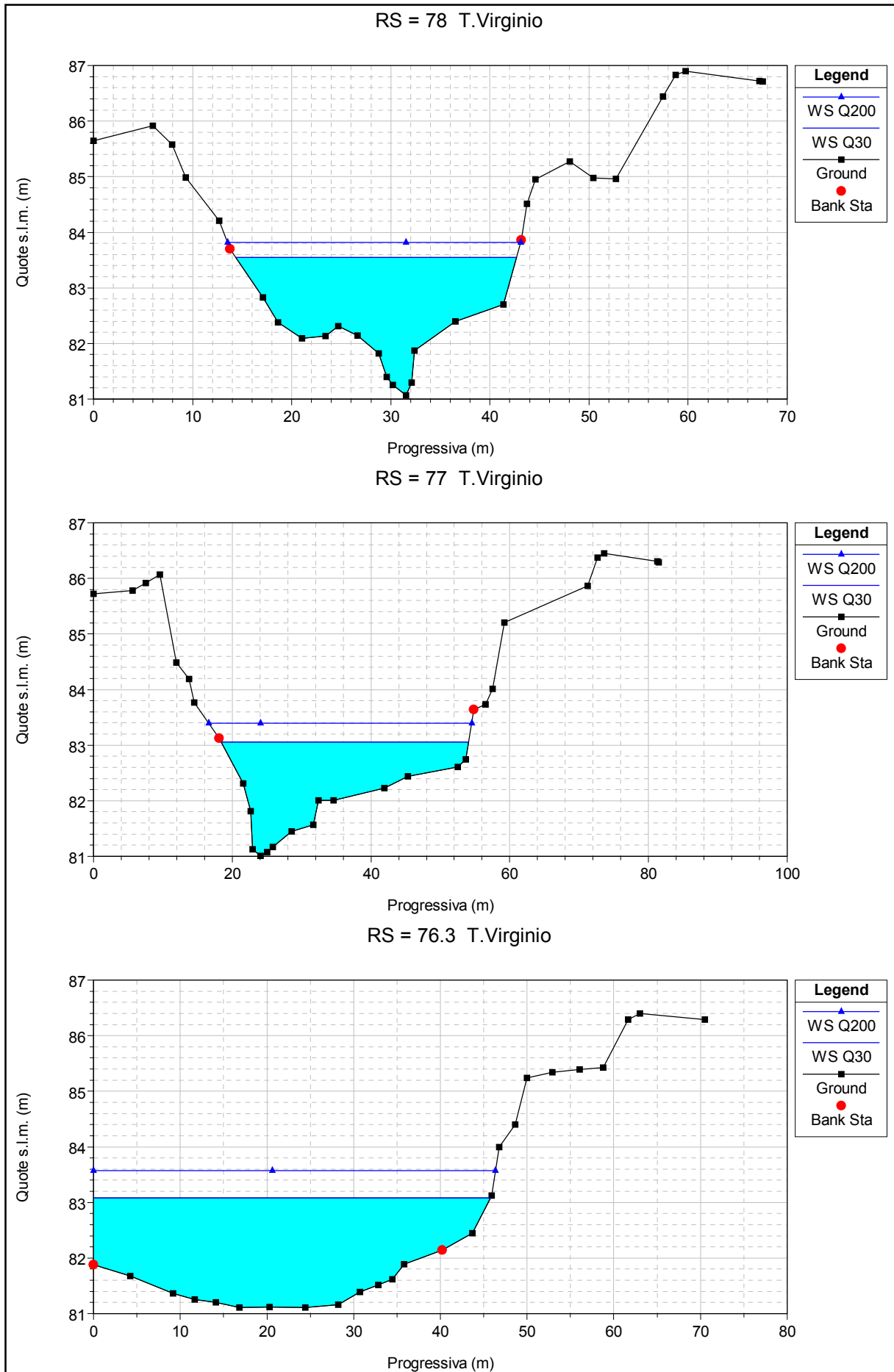
RS = 81 T.Virginio



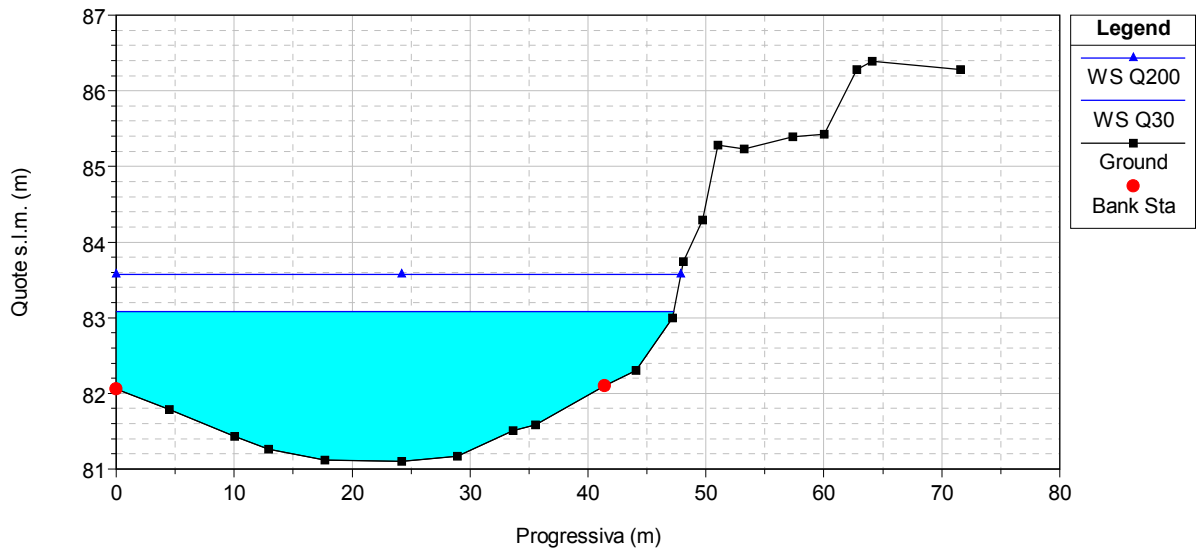
RS = 80 T.Virginio



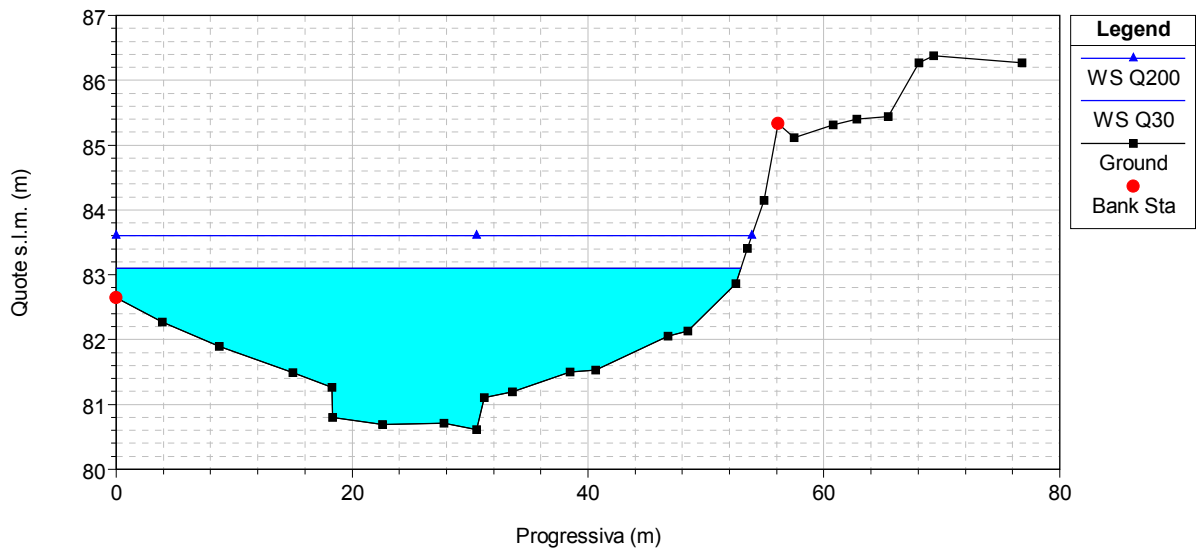




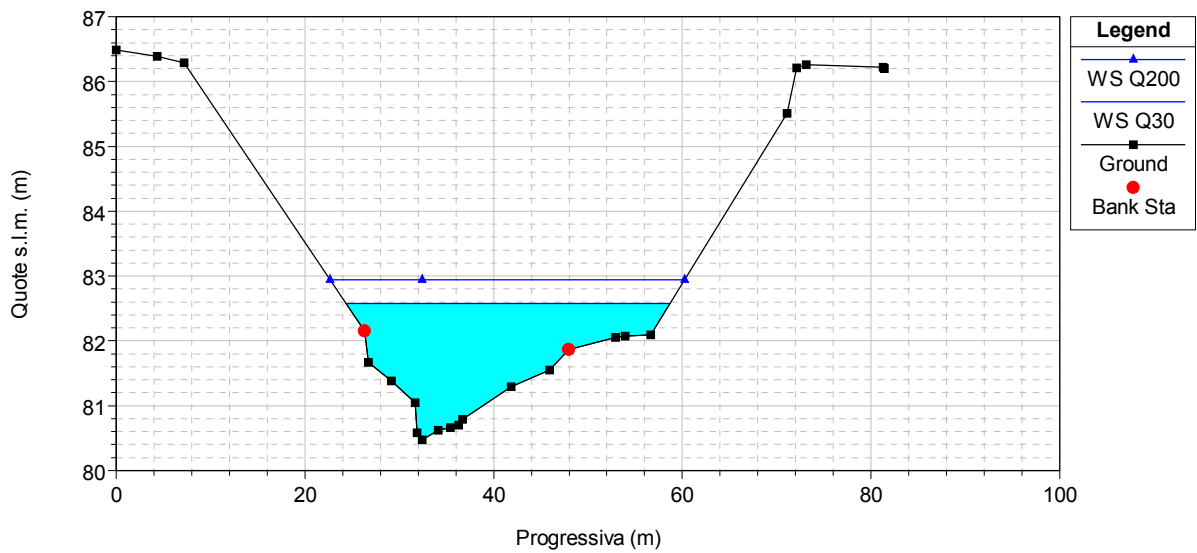
RS = 76.2 T.Virginio



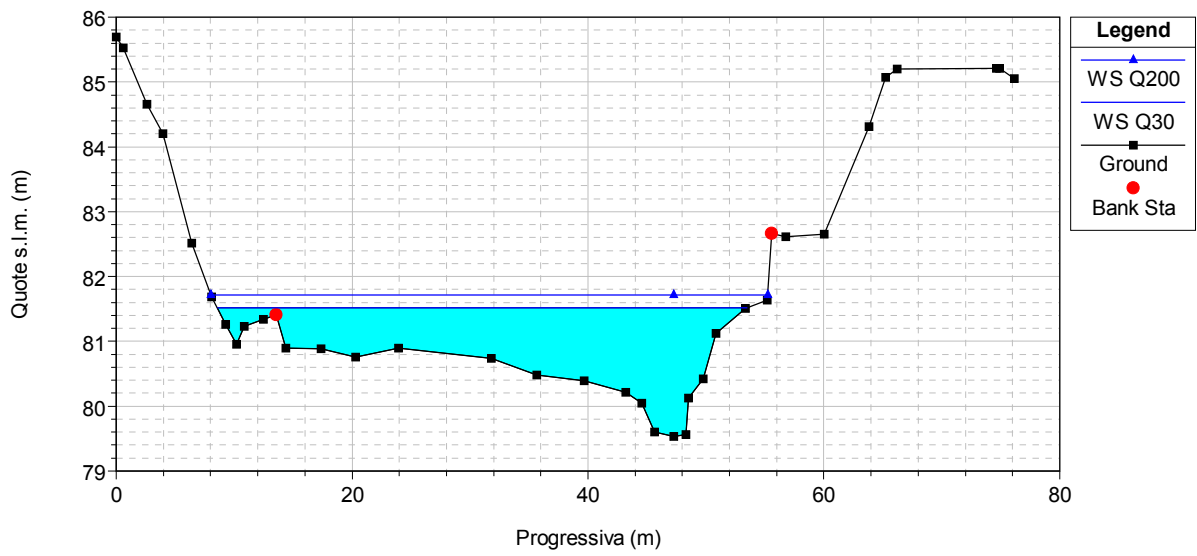
RS = 76.1 T.Virginio



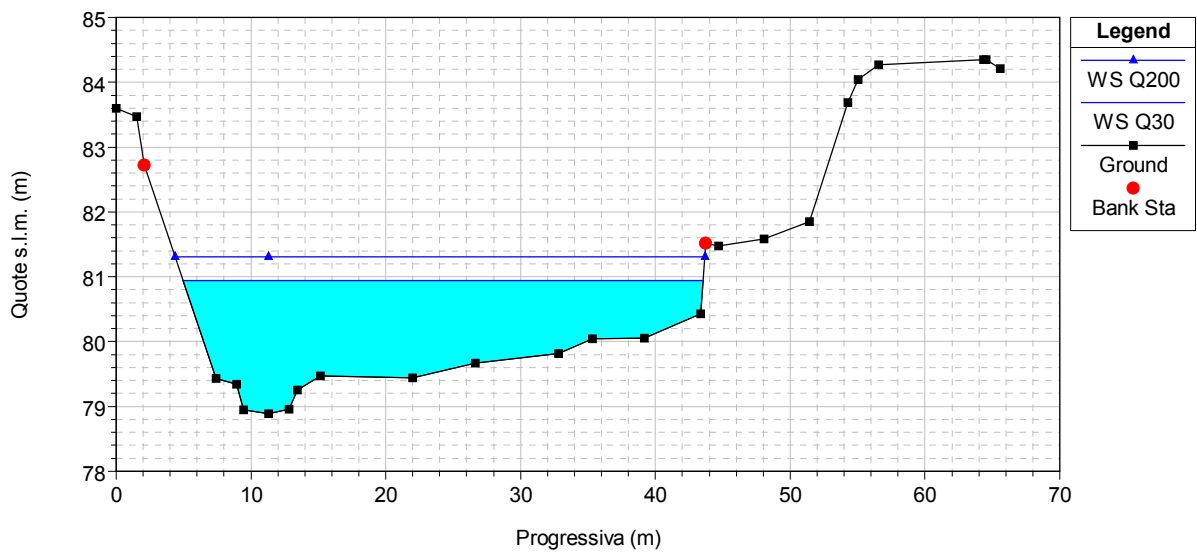
RS = 75 T.Virginio



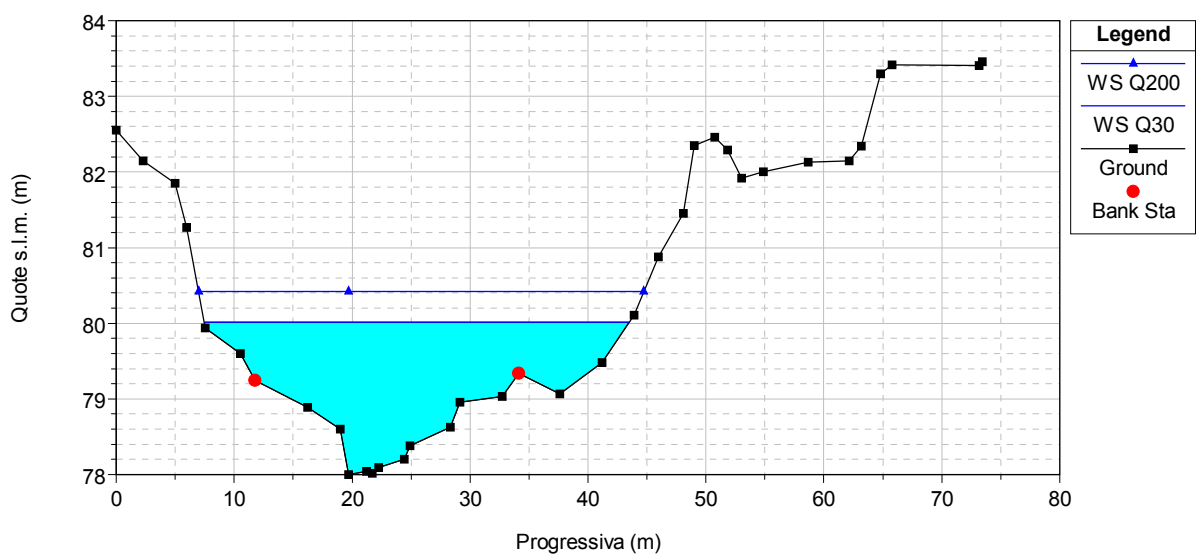
RS = 74 T.Virginio



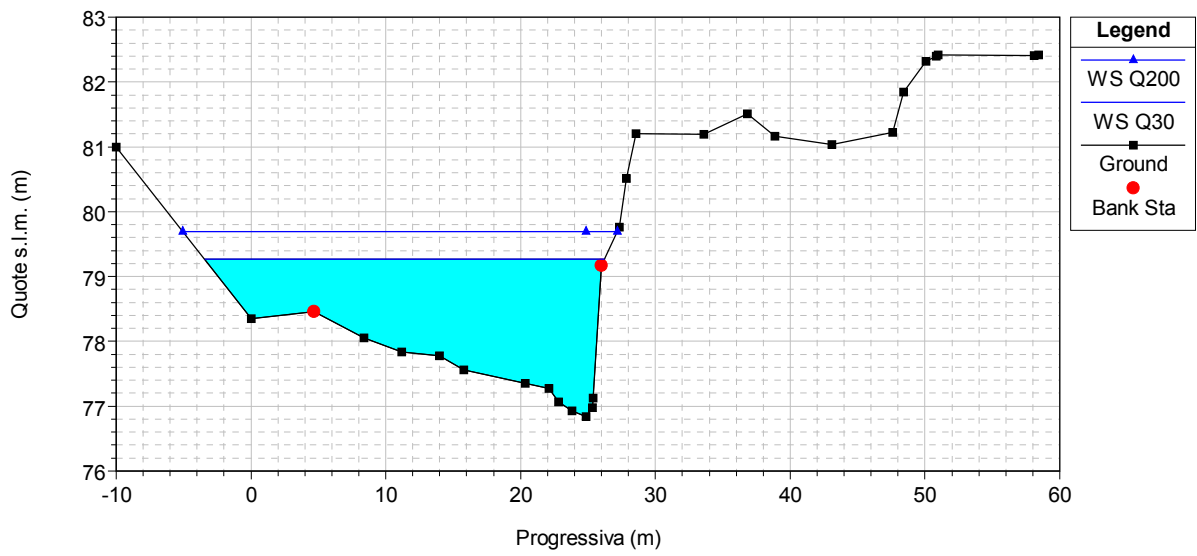
RS = 73 T.Virginio



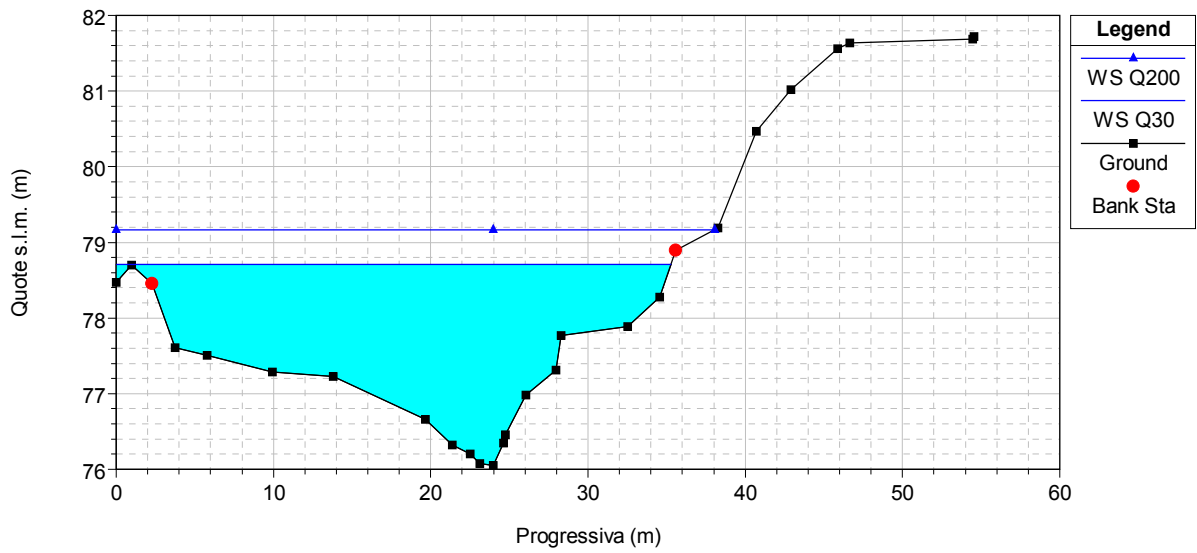
RS = 72 T.Virginio



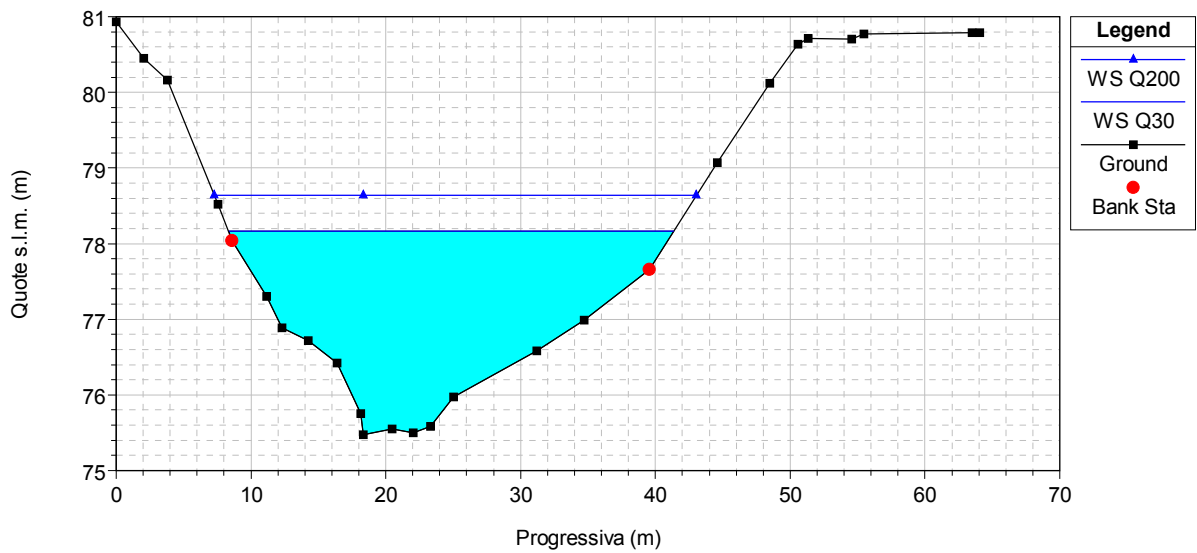
RS = 71 T.Virginio



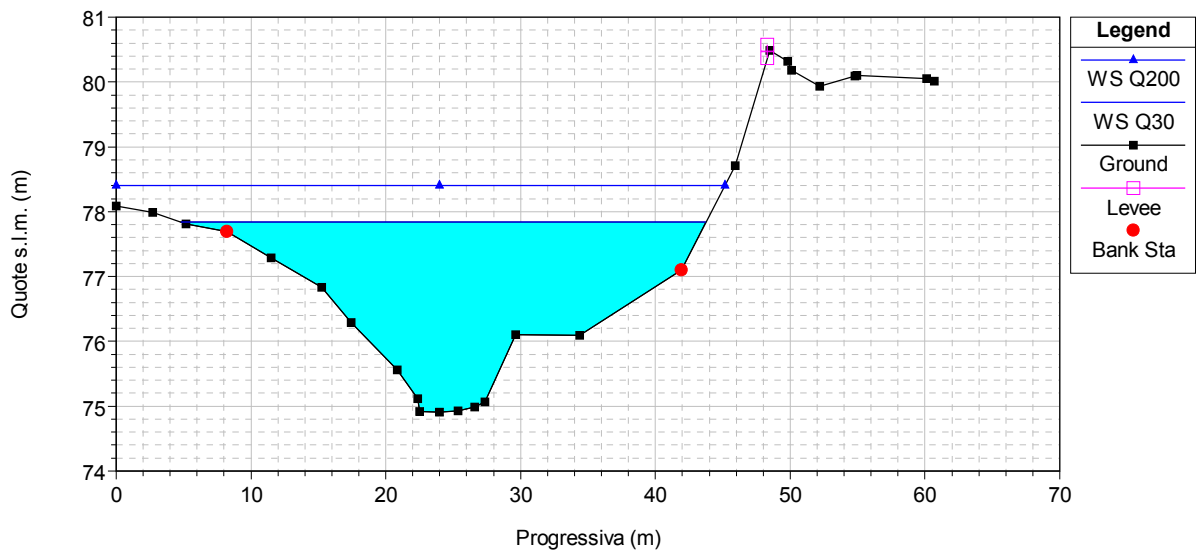
RS = 70 T.Virginio



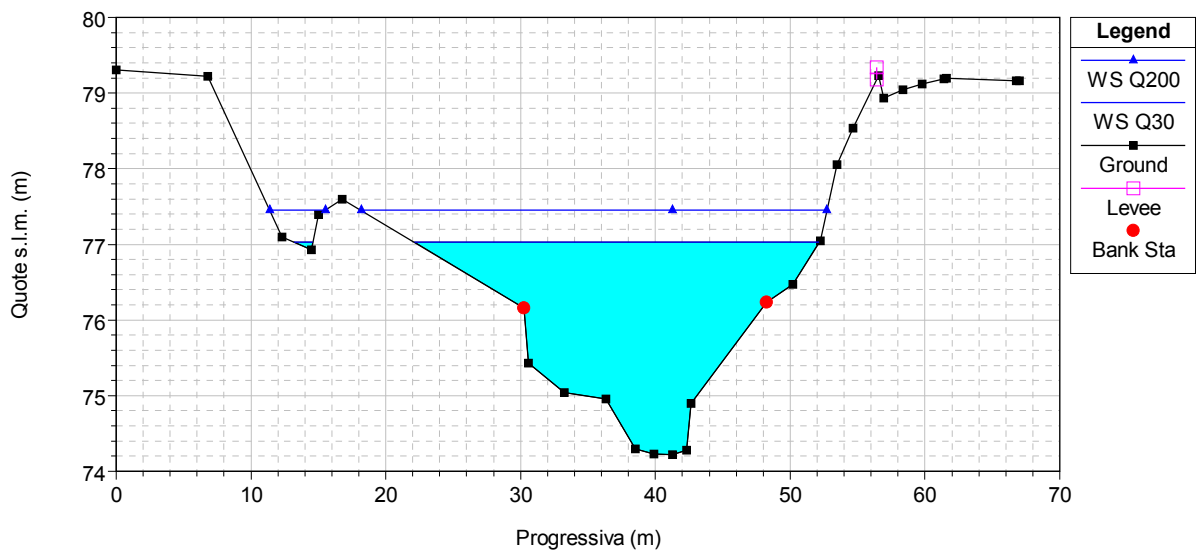
RS = 69 T.Virginio



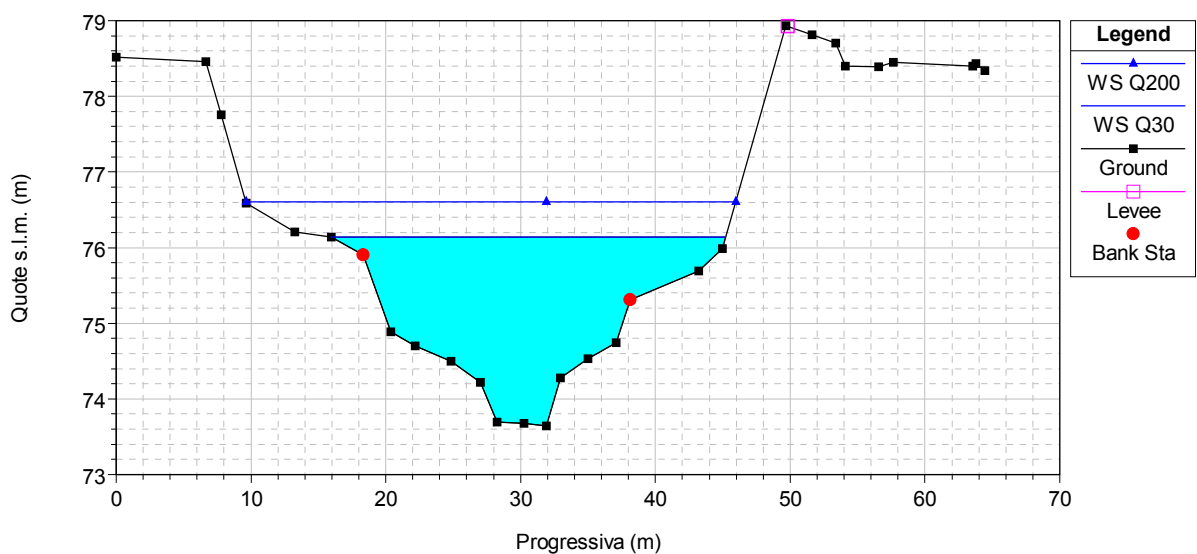
RS = 68 T.Virginio



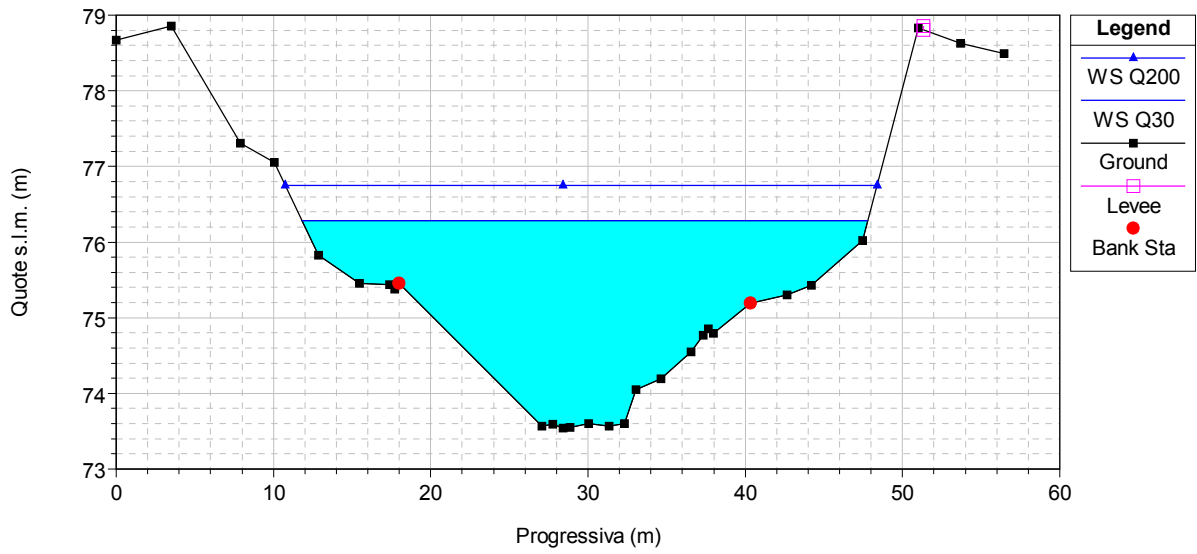
RS = 67 T.Virginio



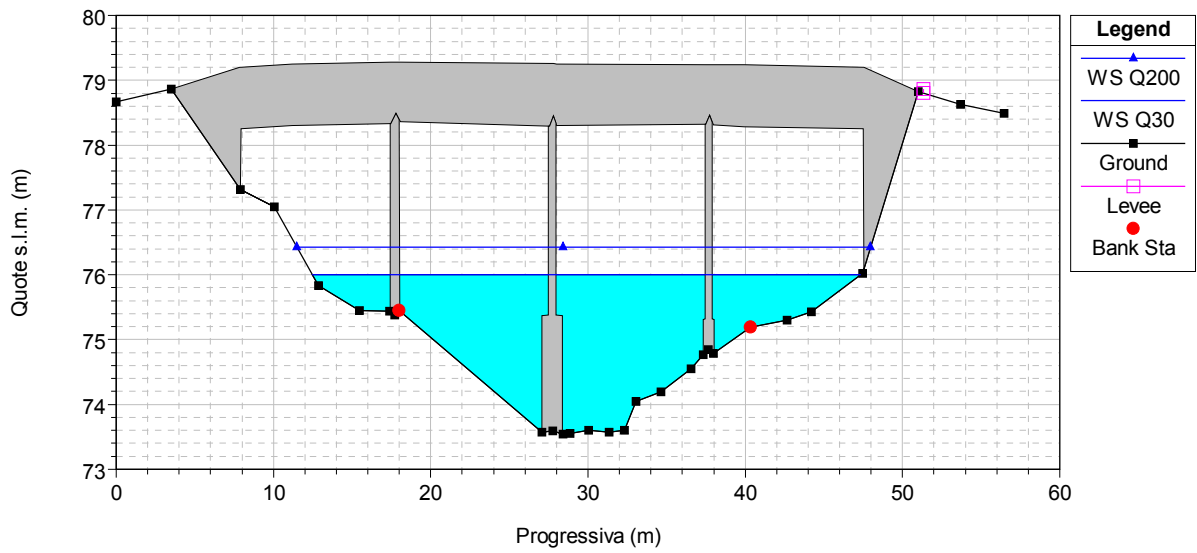
RS = 66 T.Virginio



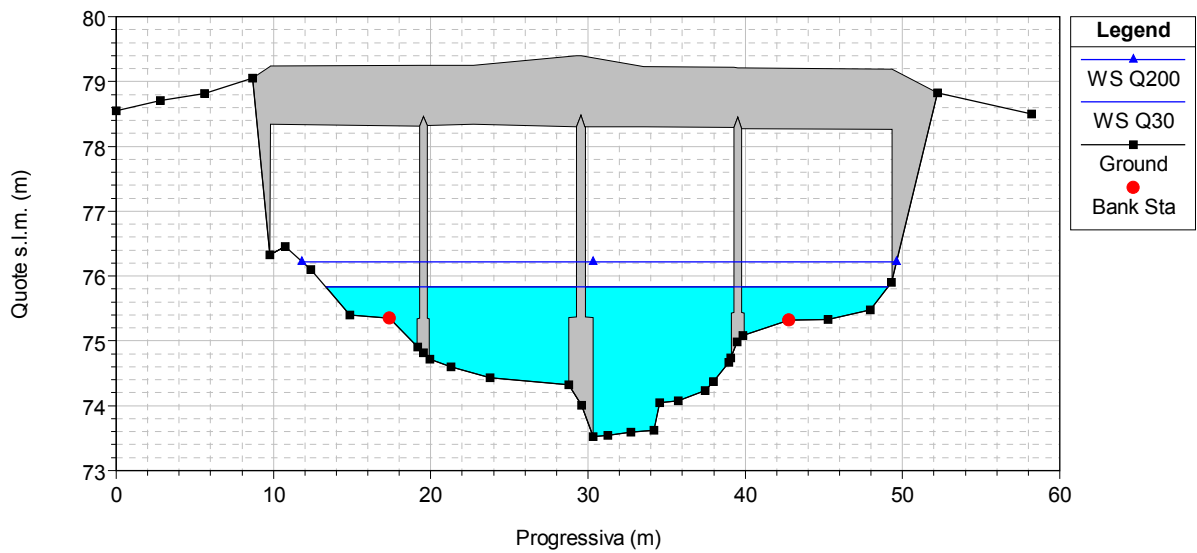
RS = 65.3 T.Virginio



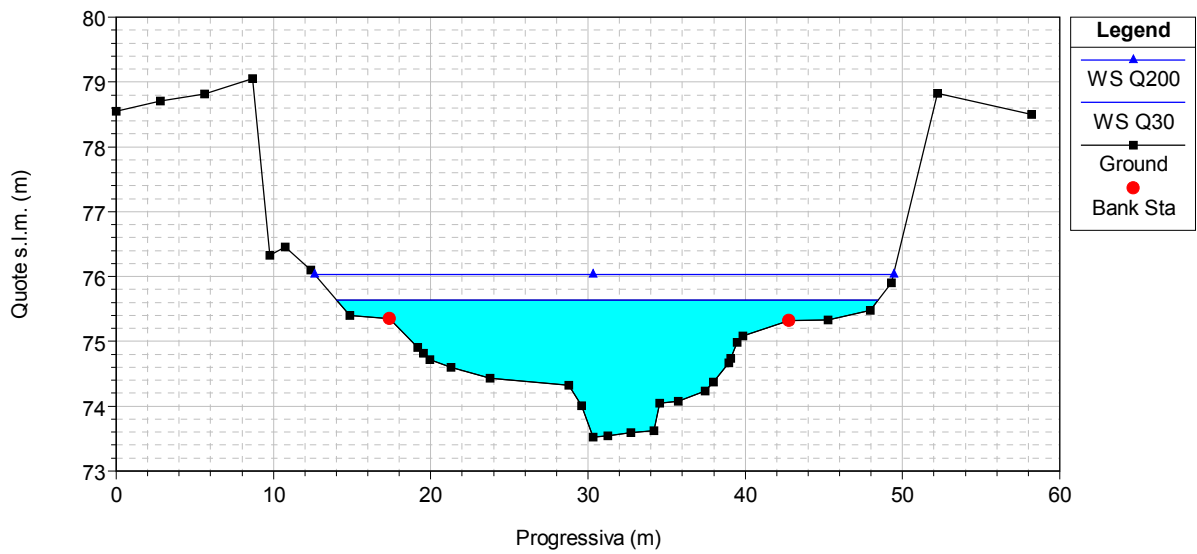
RS = 65.2 BR T.Virginio



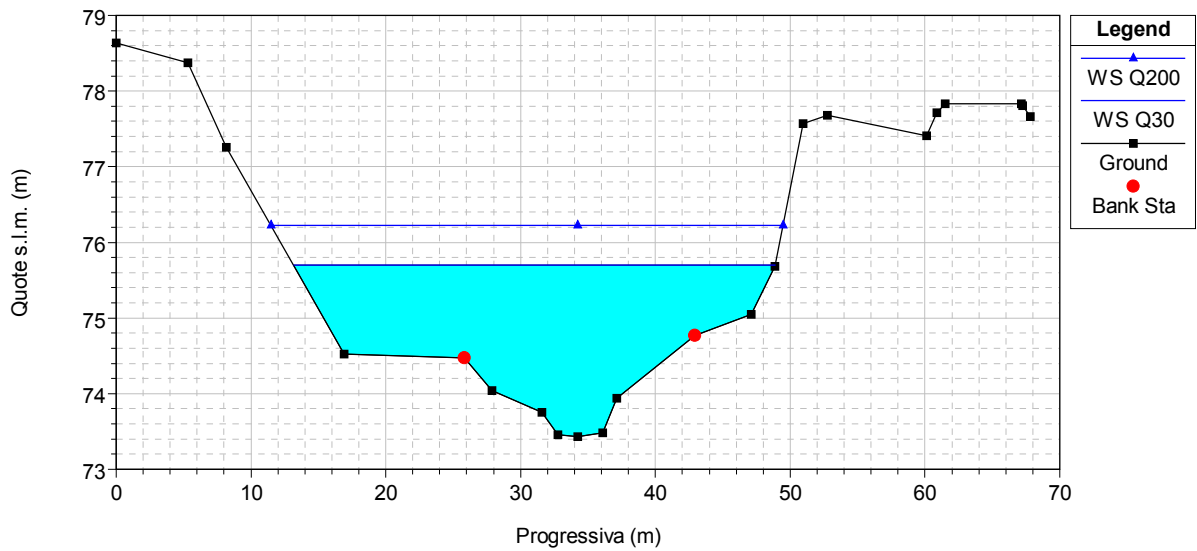
RS = 65.2 BR T.Virginio



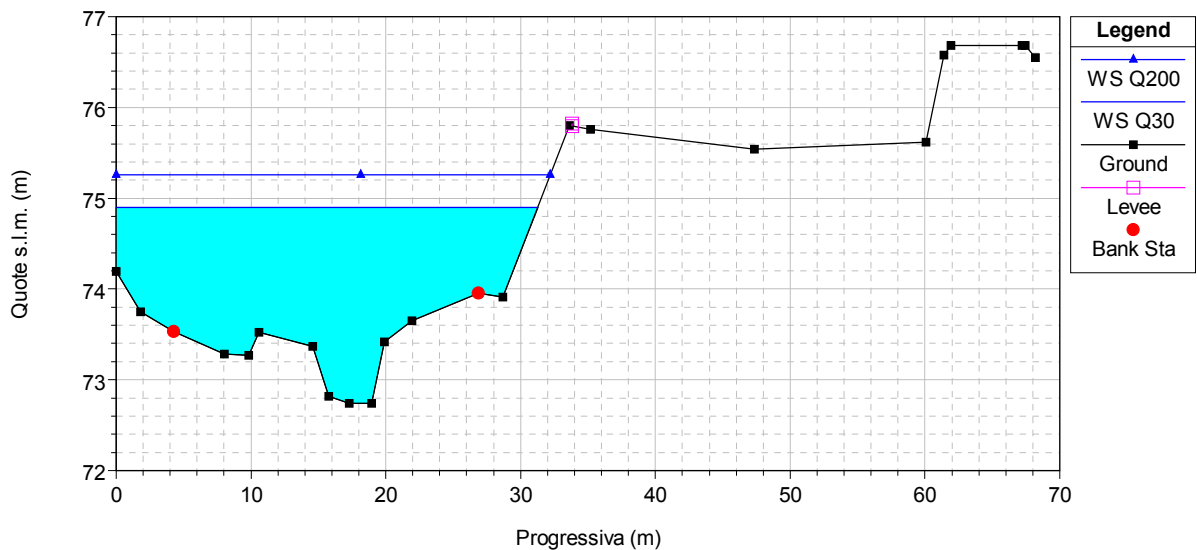
RS = 65.1 T.Virginio



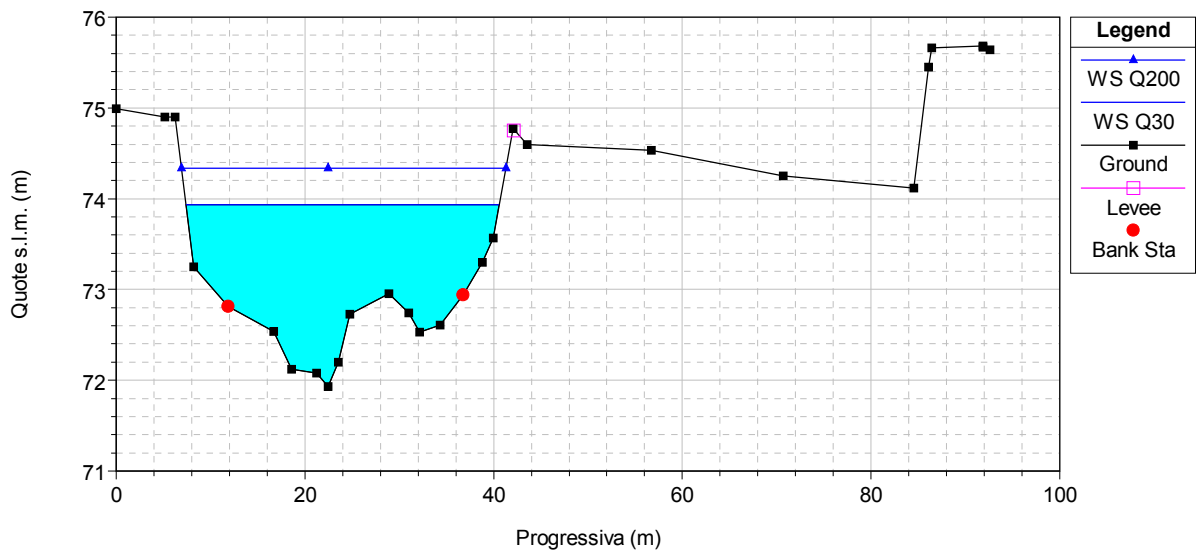
RS = 64 T.Virginio



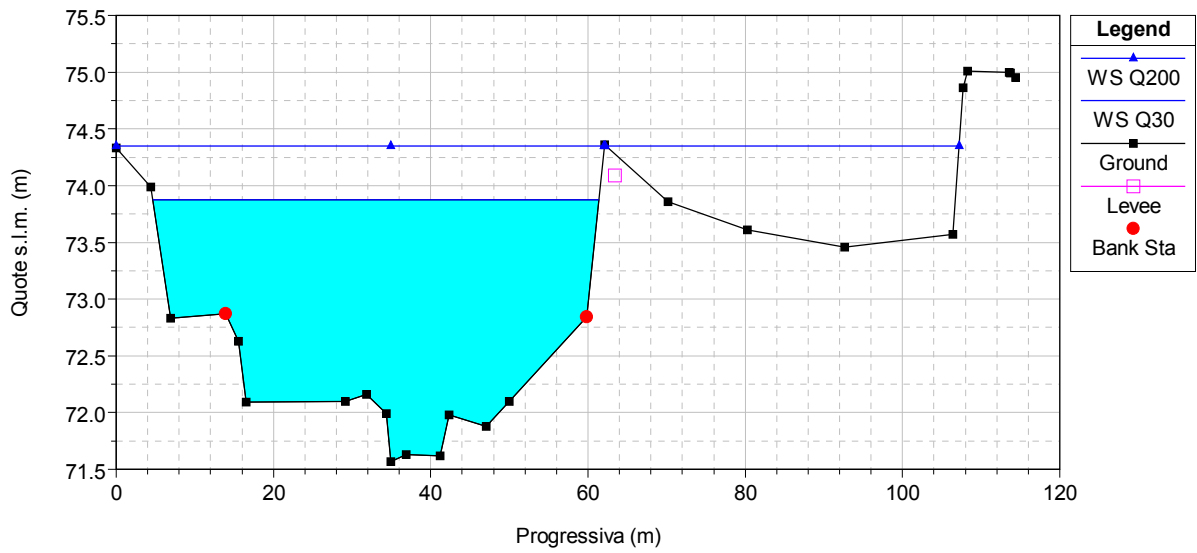
RS = 63 T.Virginio



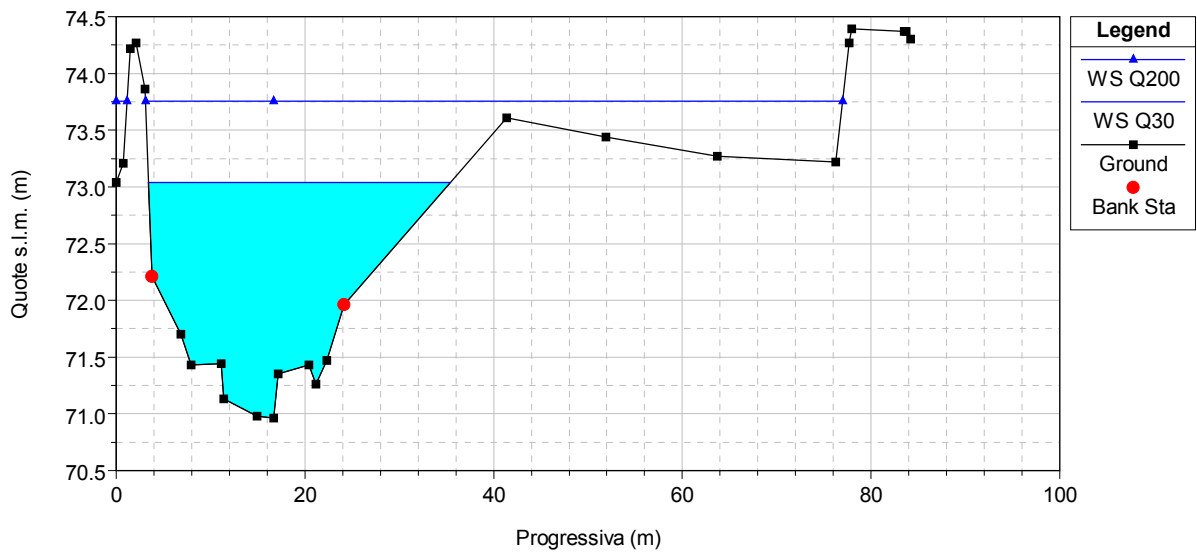
RS = 62 T.Virginio



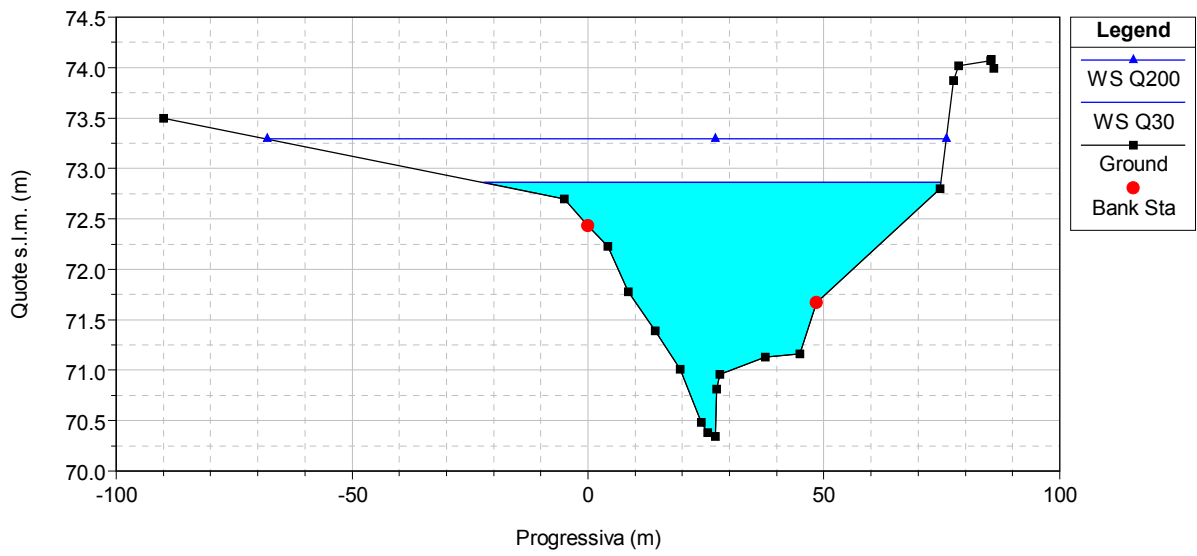
RS = 61 T.Virginio



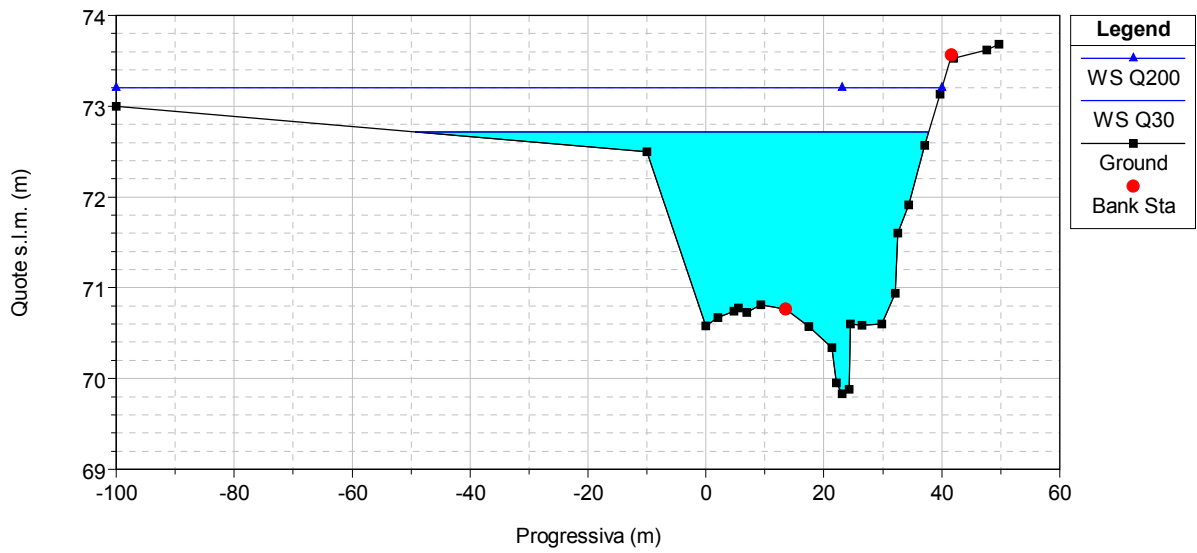
RS = 60 T.Virginio



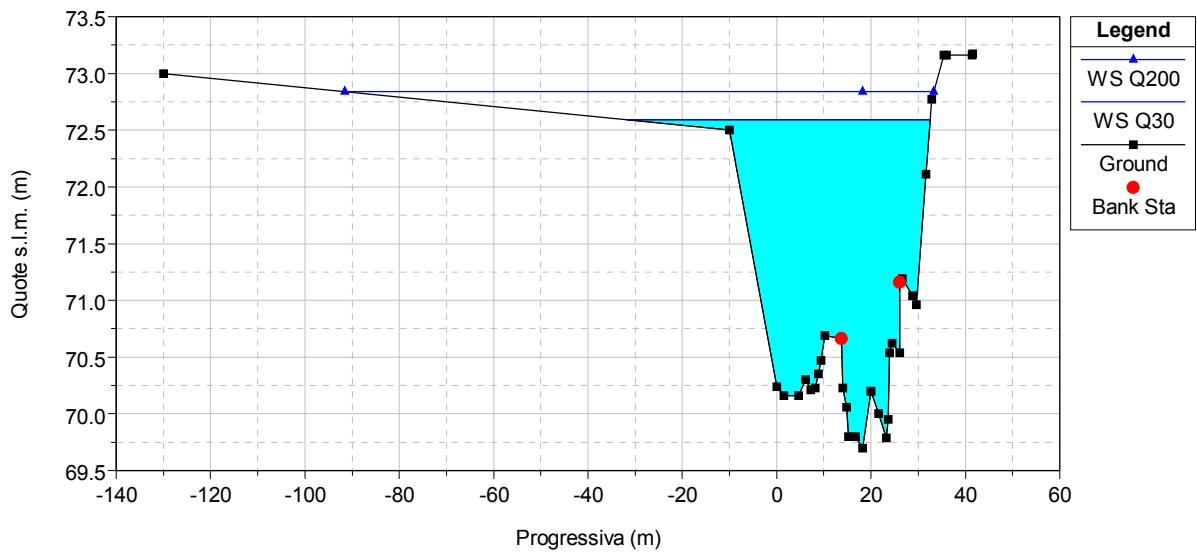
RS = 59 T.Virginio

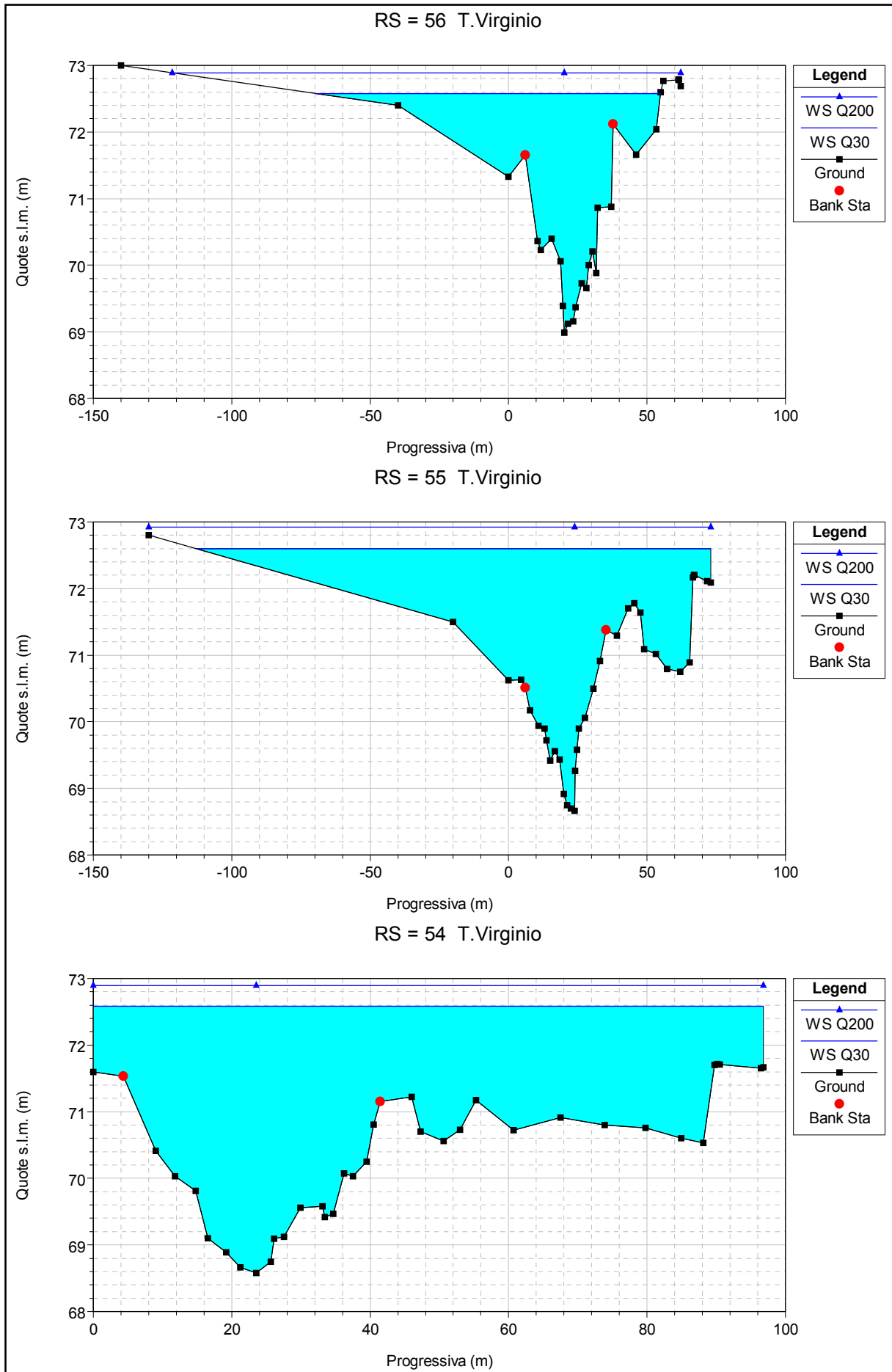


RS = 58 T.Virginio

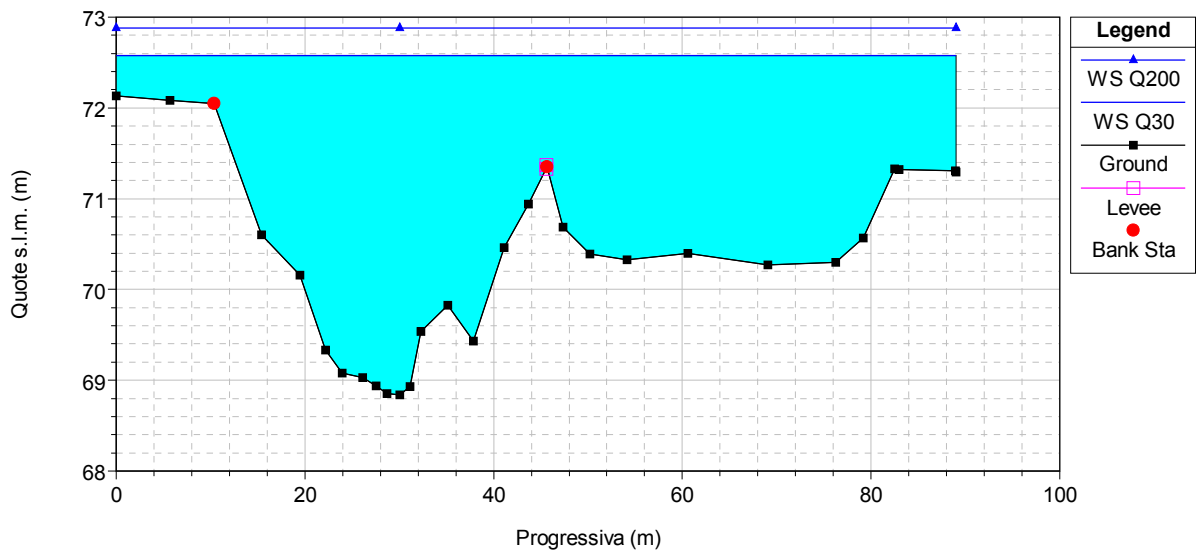


RS = 57 T.Virginio

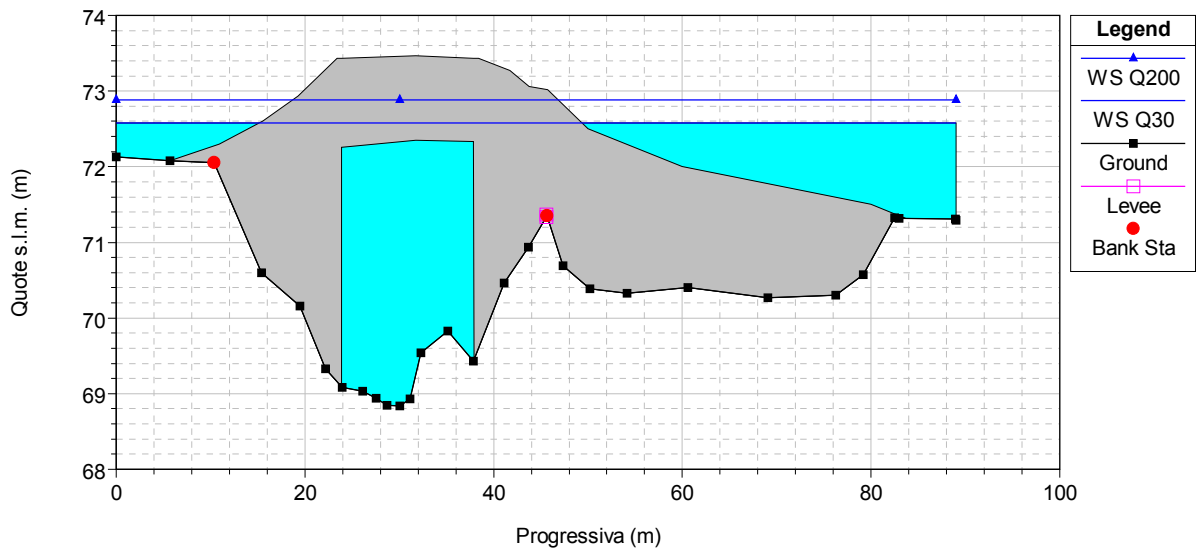




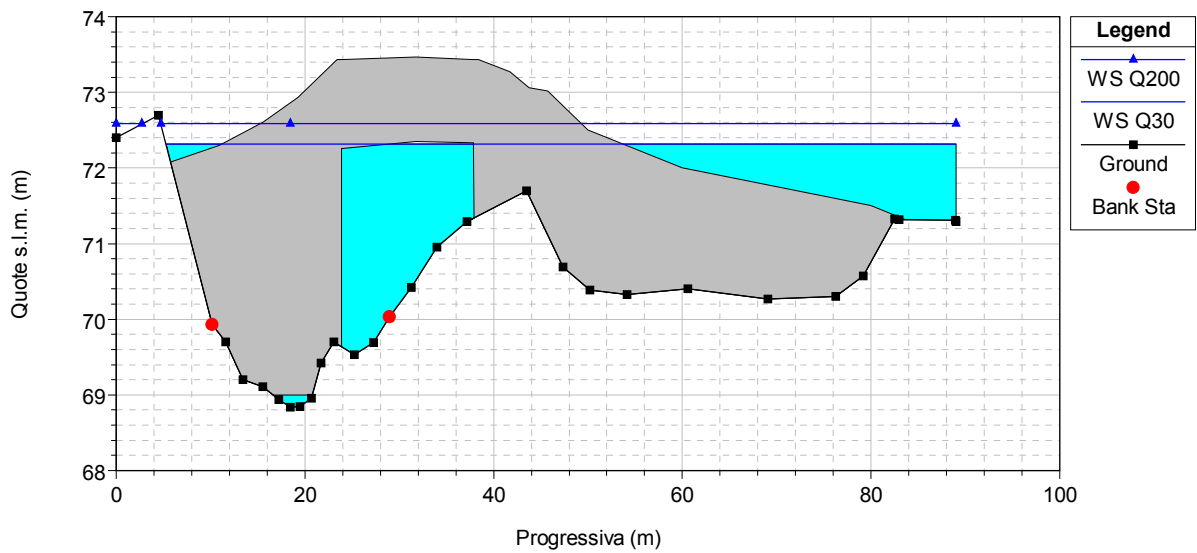
RS = 53.3 T.Virginio



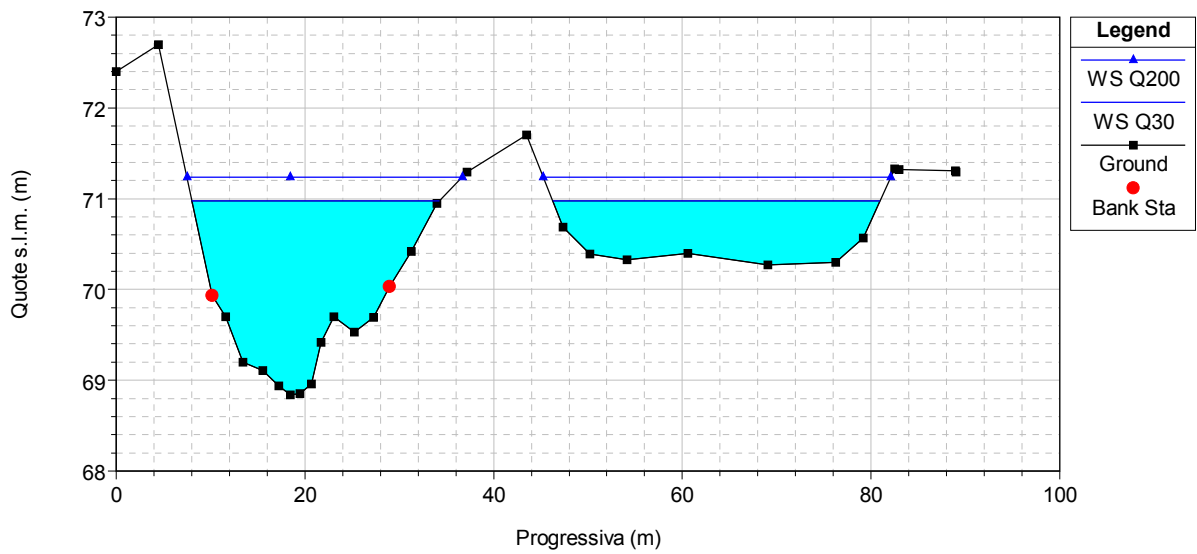
RS = 53.2 BR T.Virginio



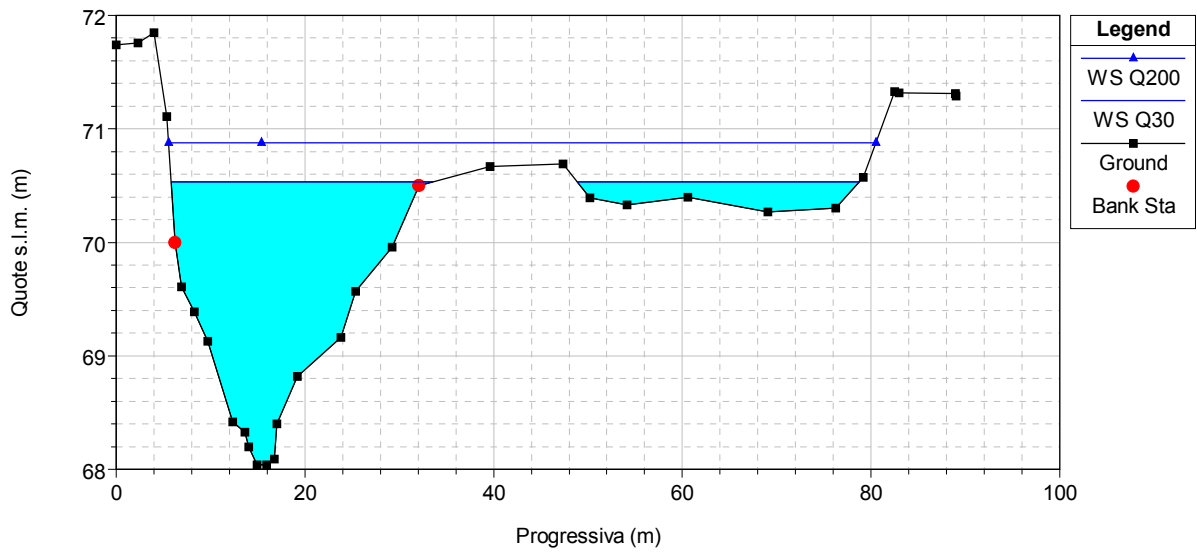
RS = 53.2 BR T.Virginio



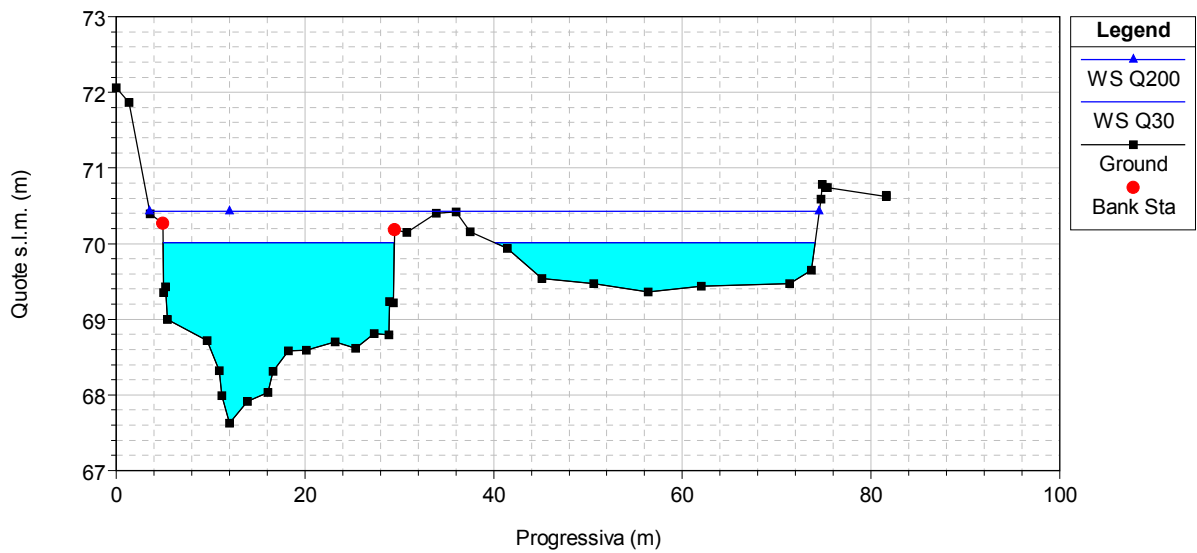
RS = 53.1 T.Virginio



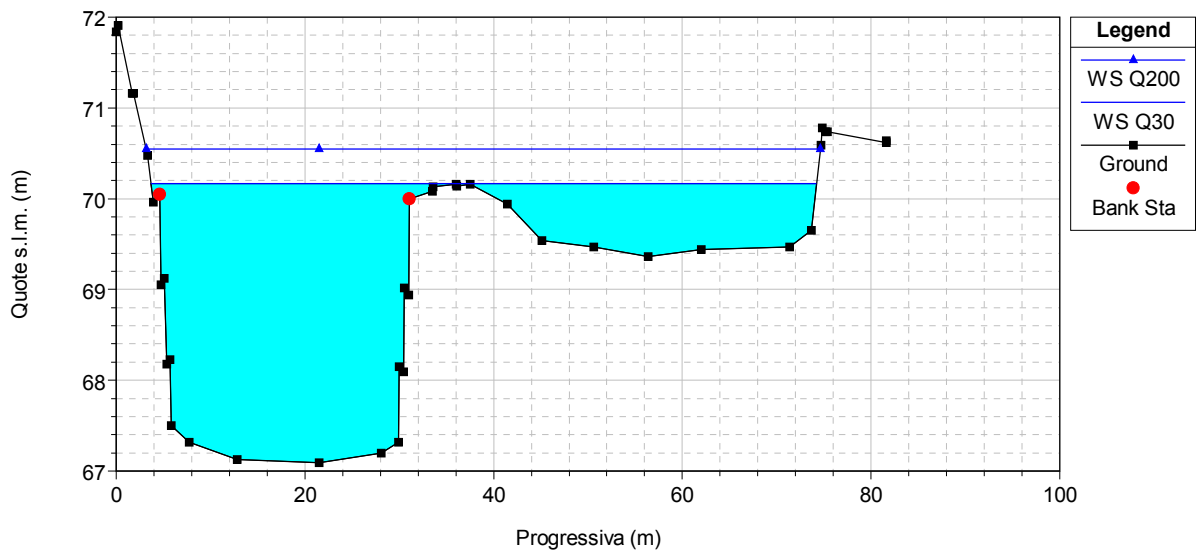
RS = 52 T.Virginio



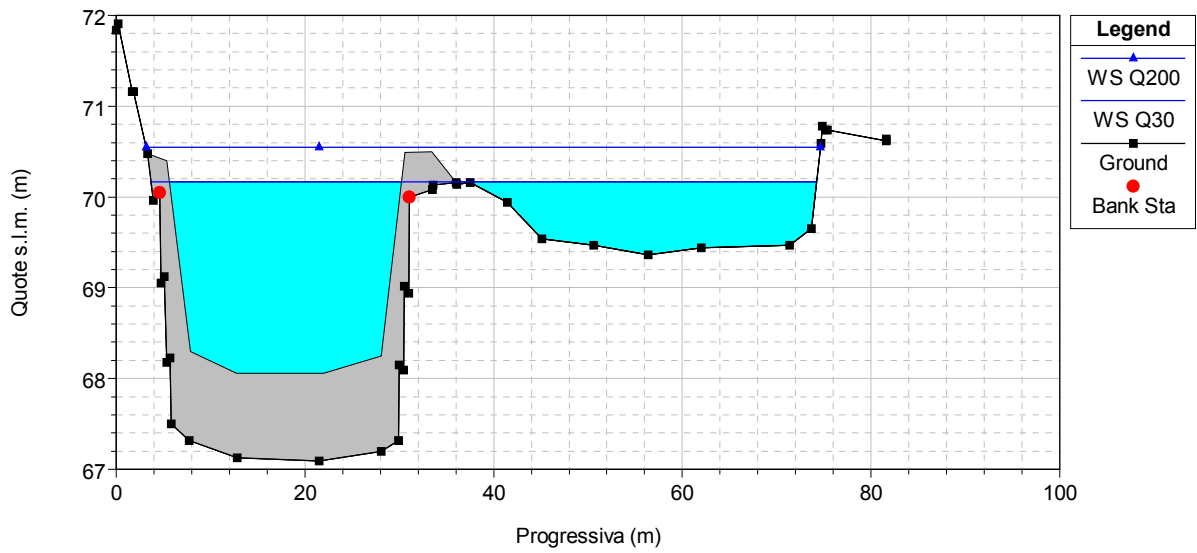
RS = 51 T.Virginio



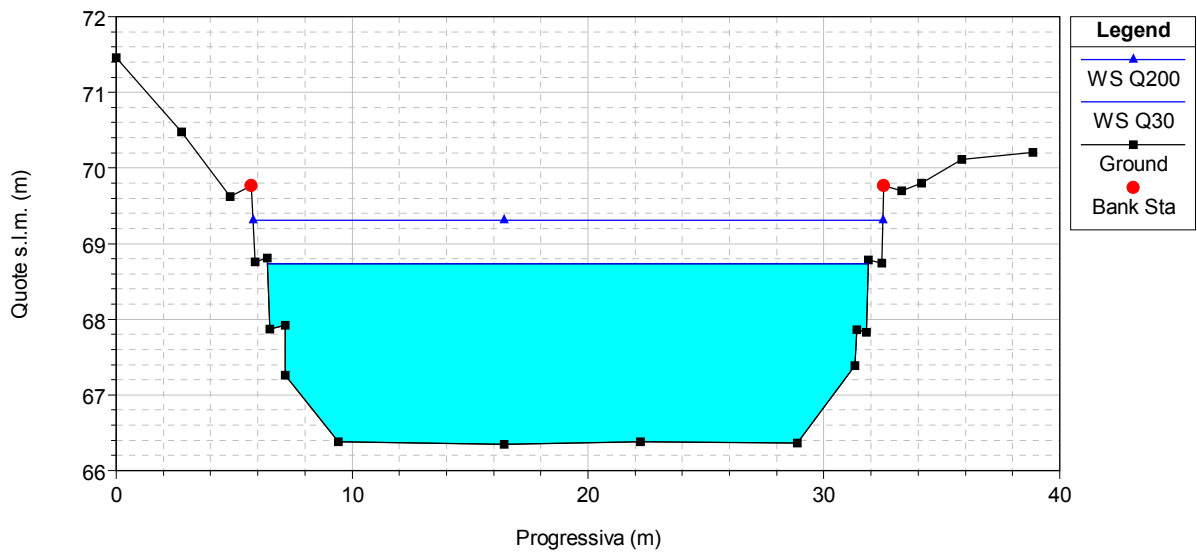
RS = 50.3 T.Virginio

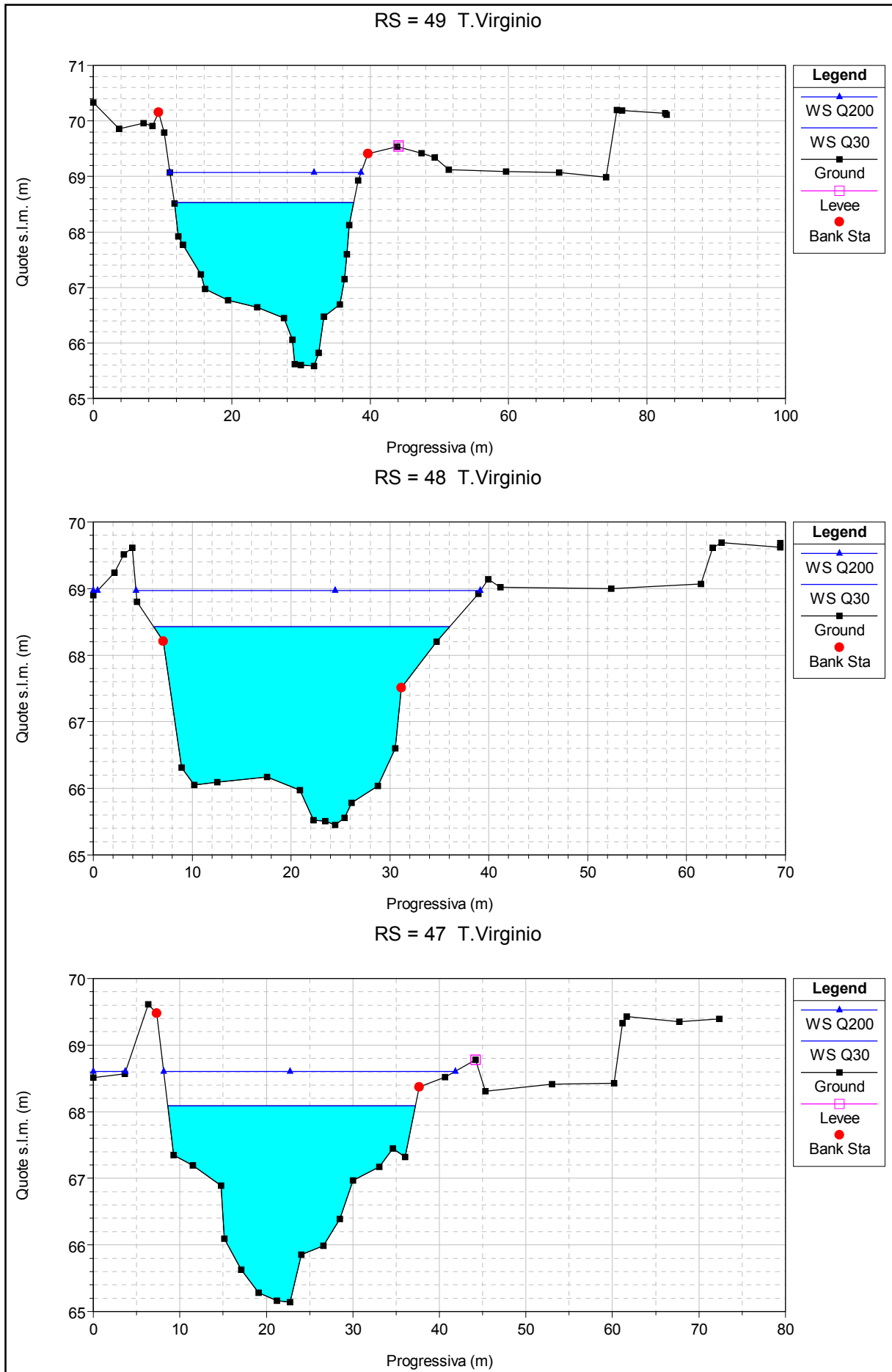


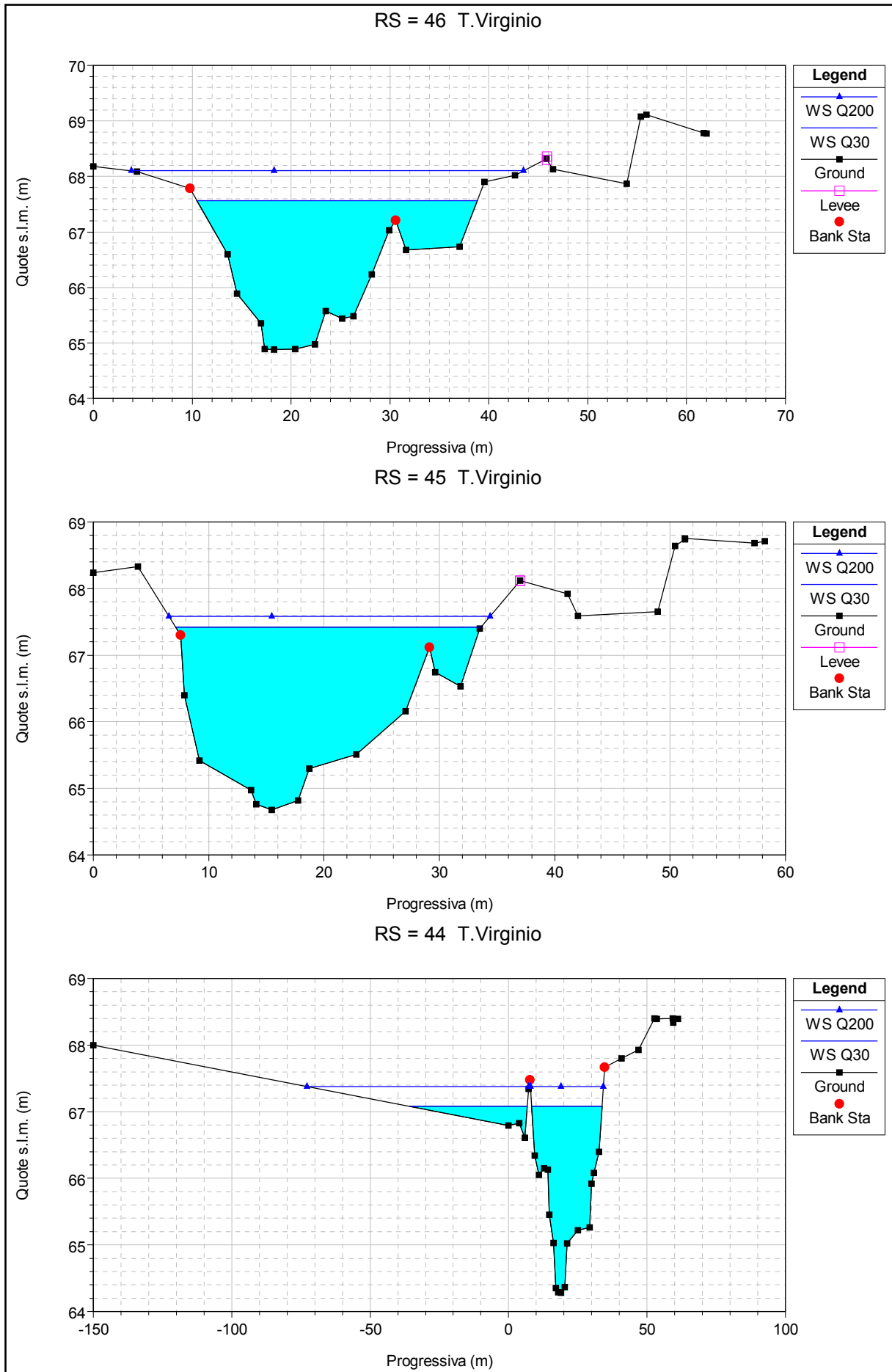
RS = 50.2 IS T.Virginio



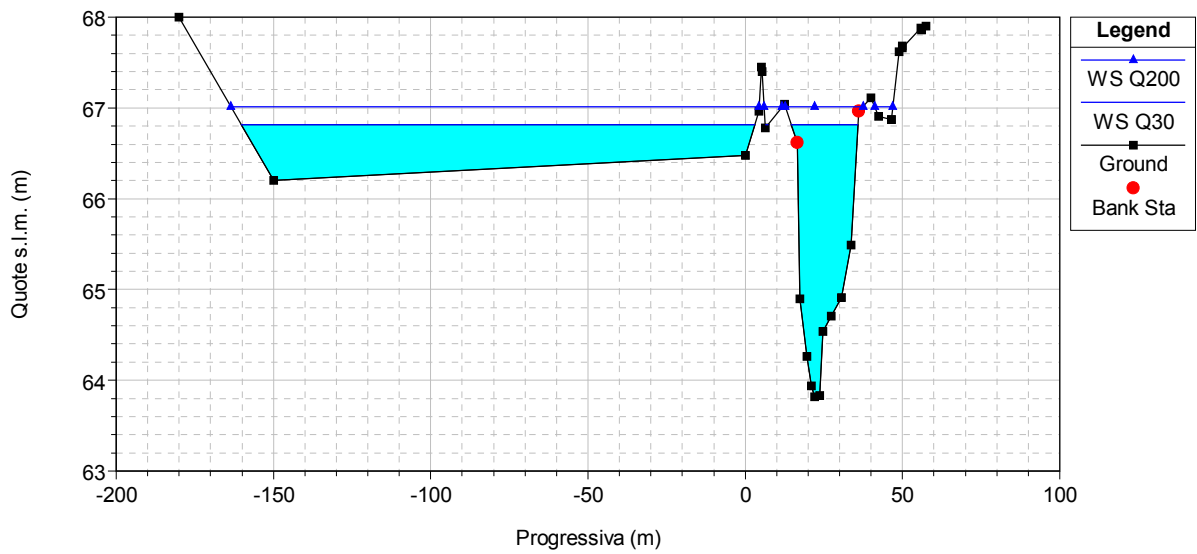
RS = 50.1 T.Virginio



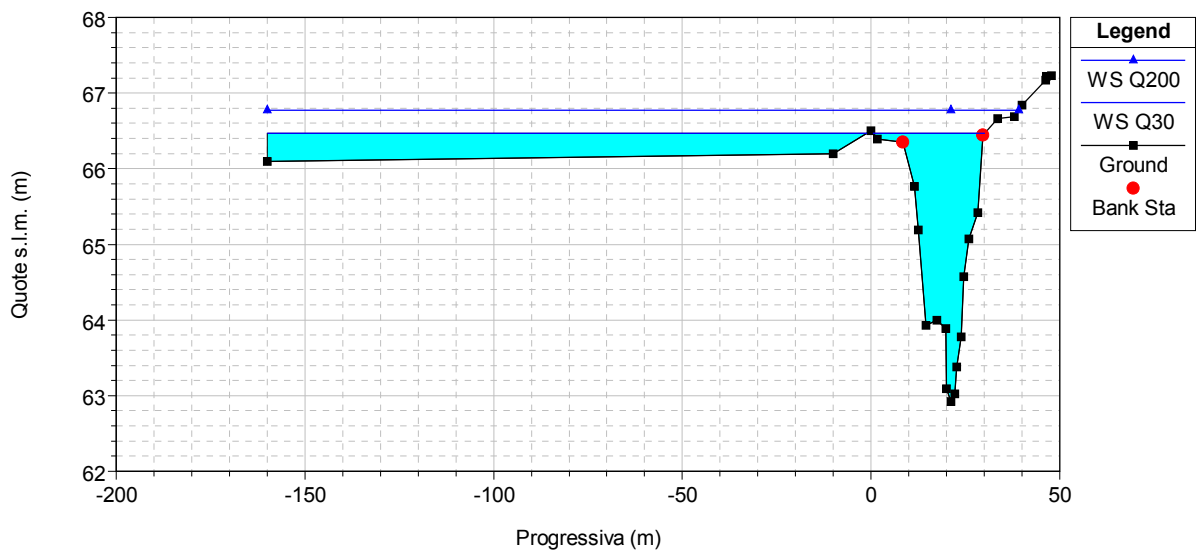




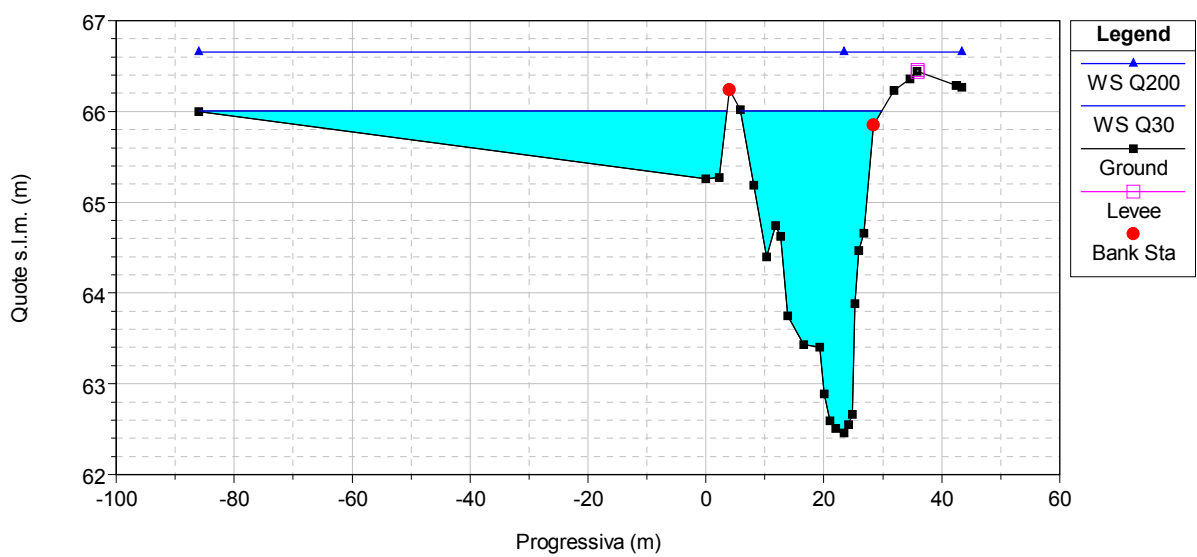
RS = 43 T.Virginio

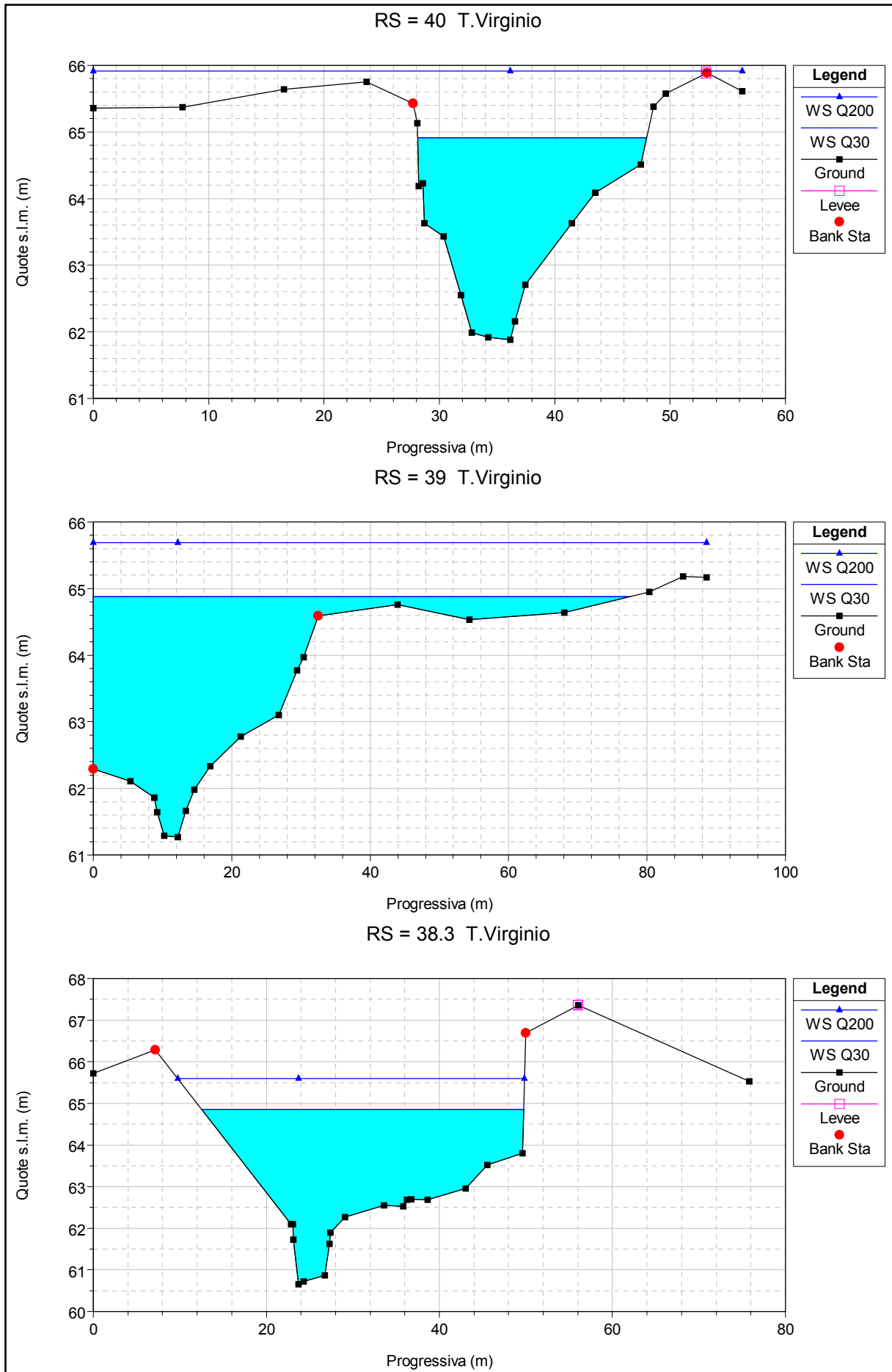


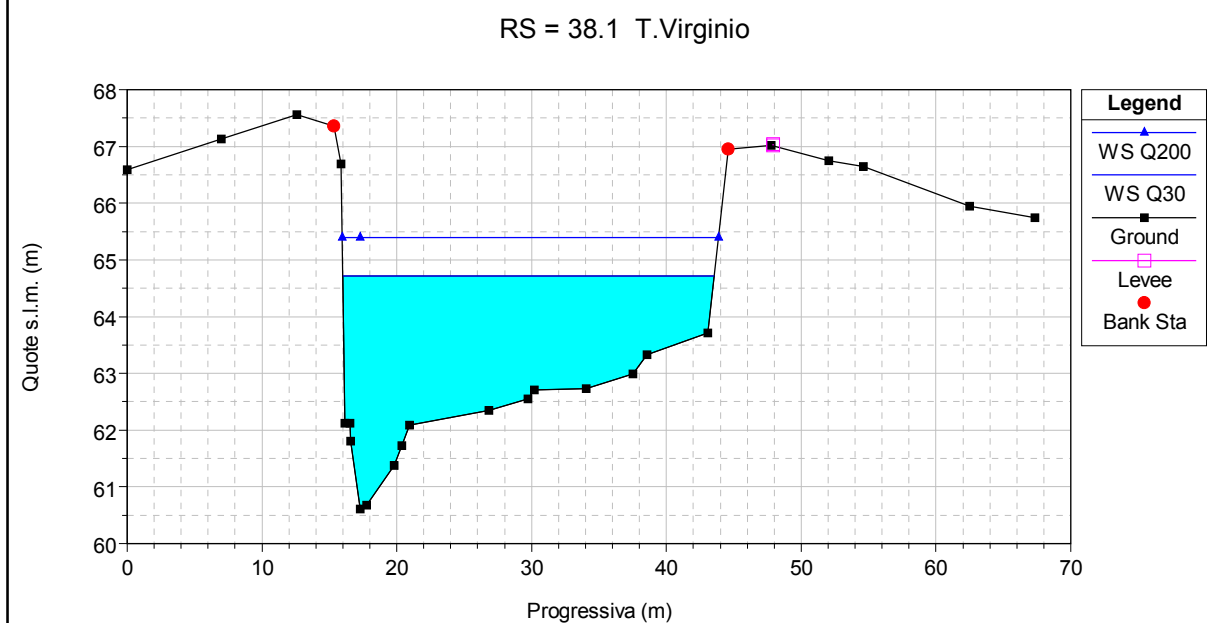
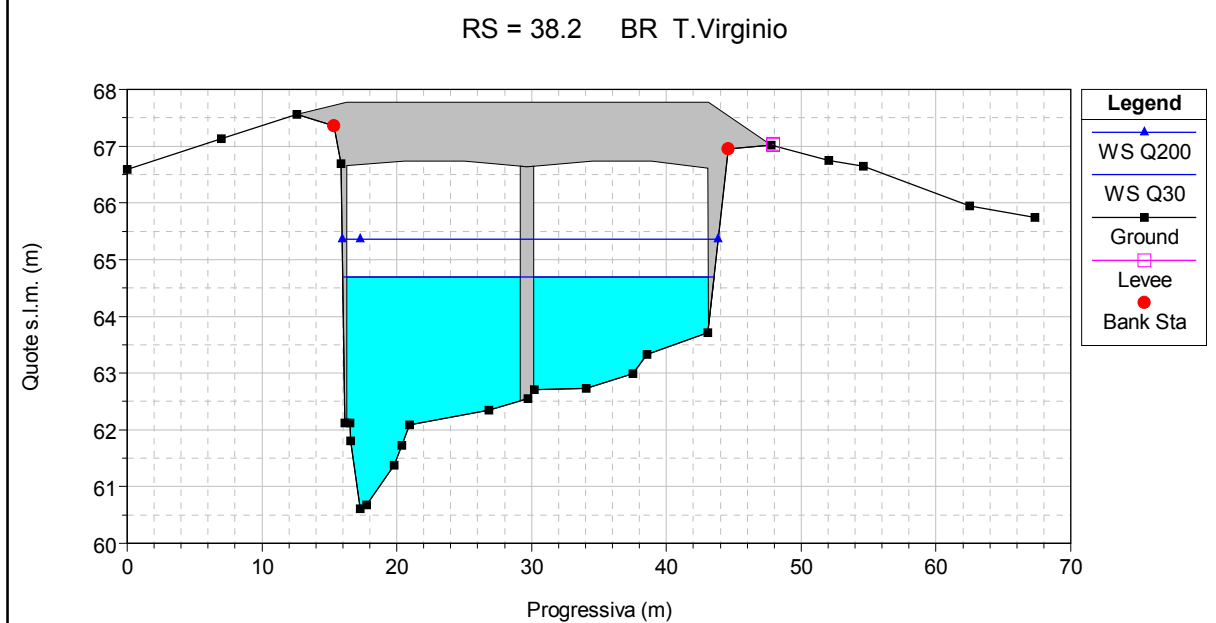
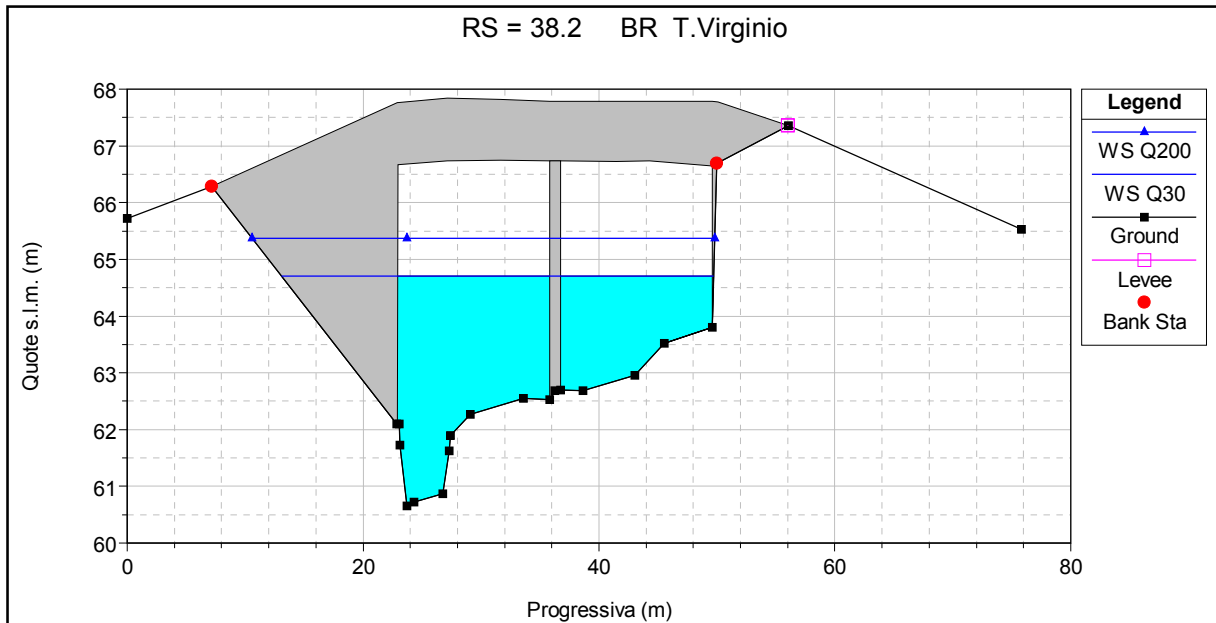
RS = 42 T.Virginio



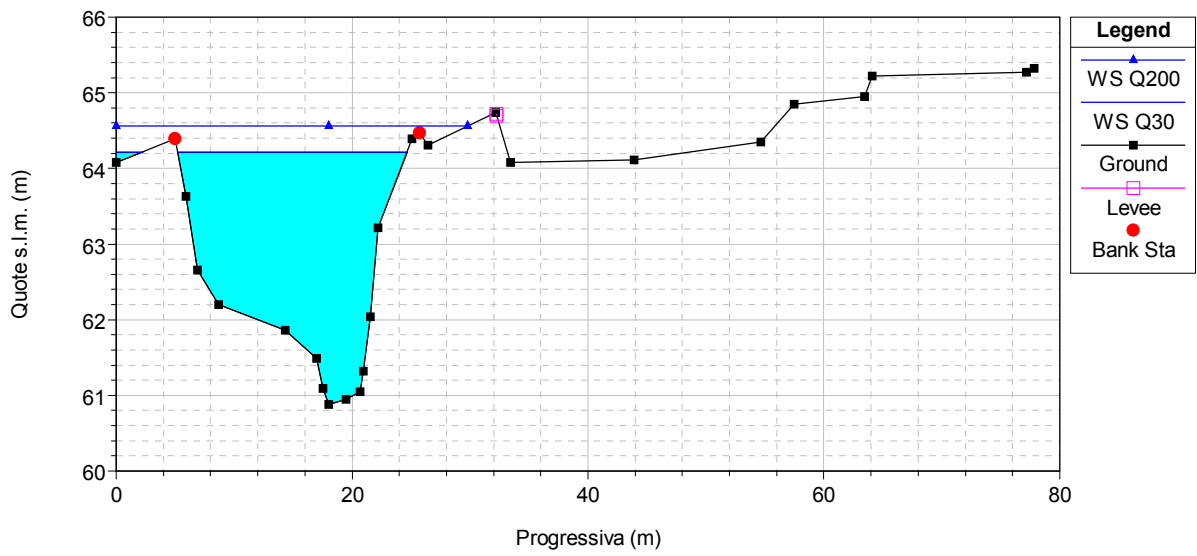
RS = 41 T.Virginio



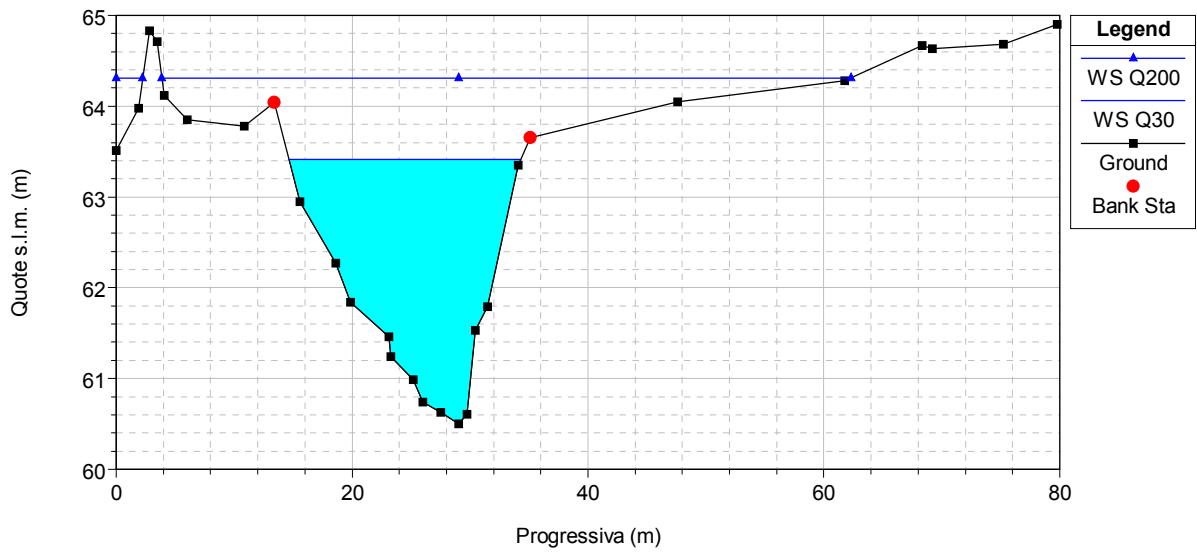




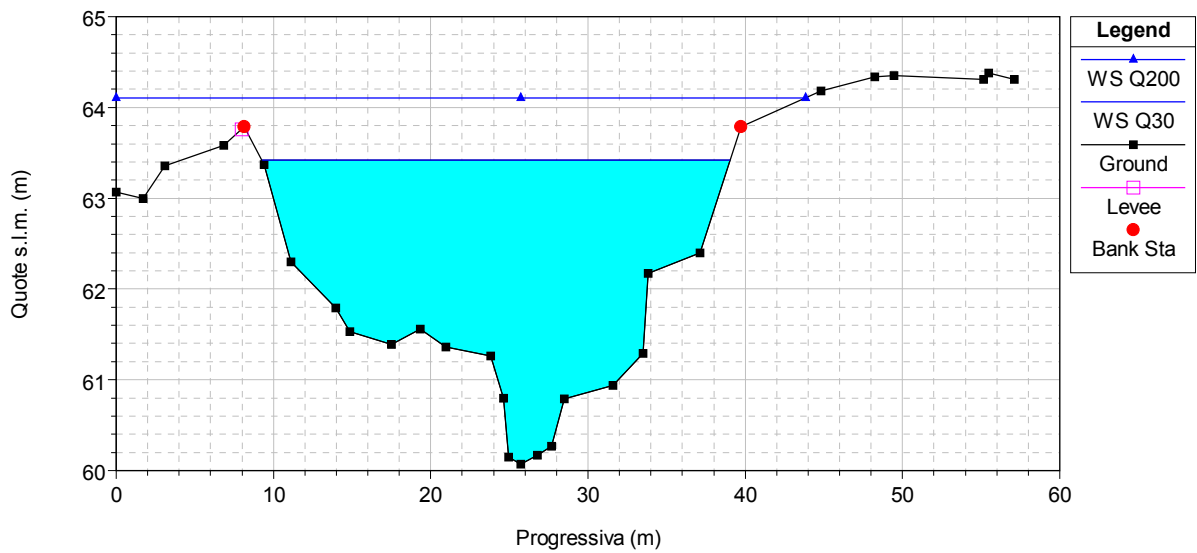
RS = 37 T.Virginio

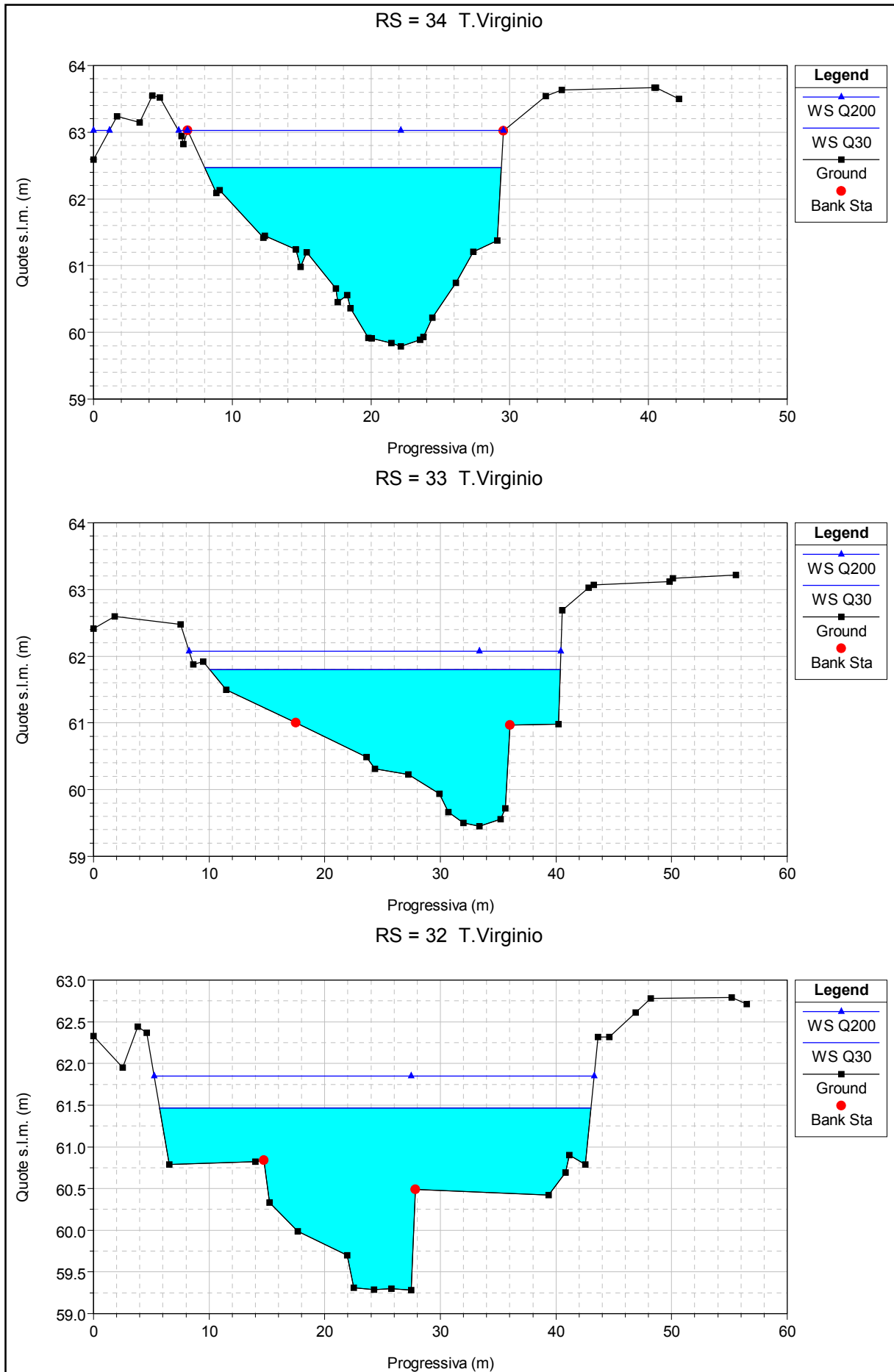


RS = 36 T.Virginio

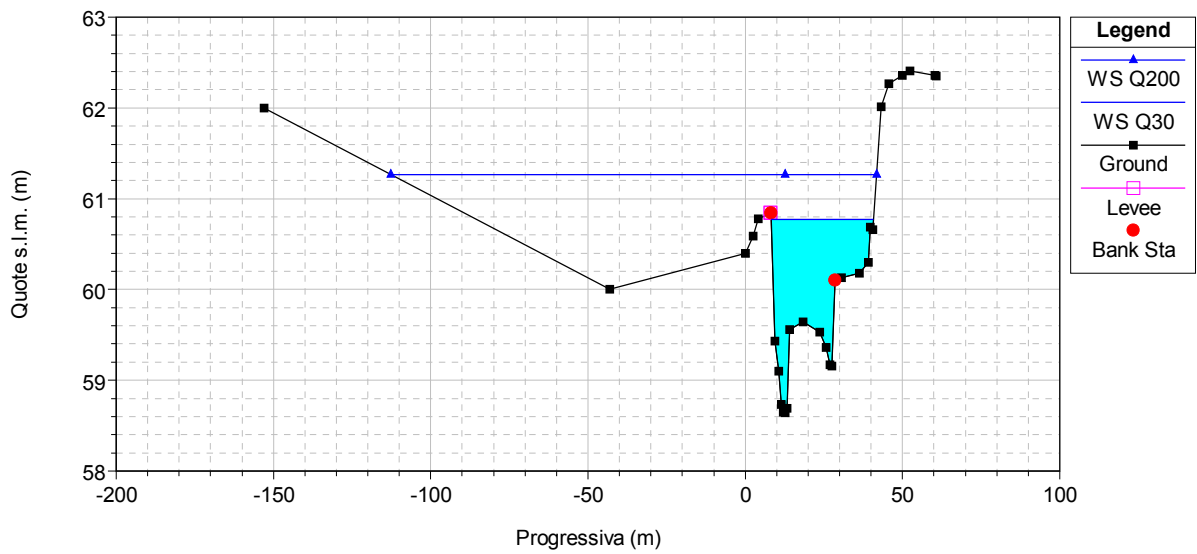


RS = 35 T.Virginio

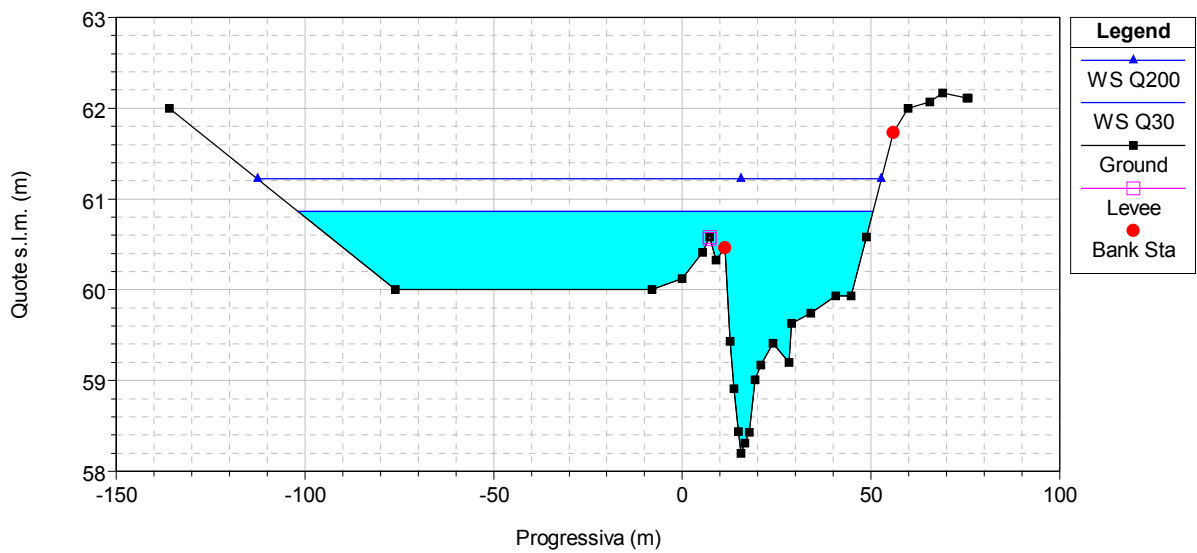




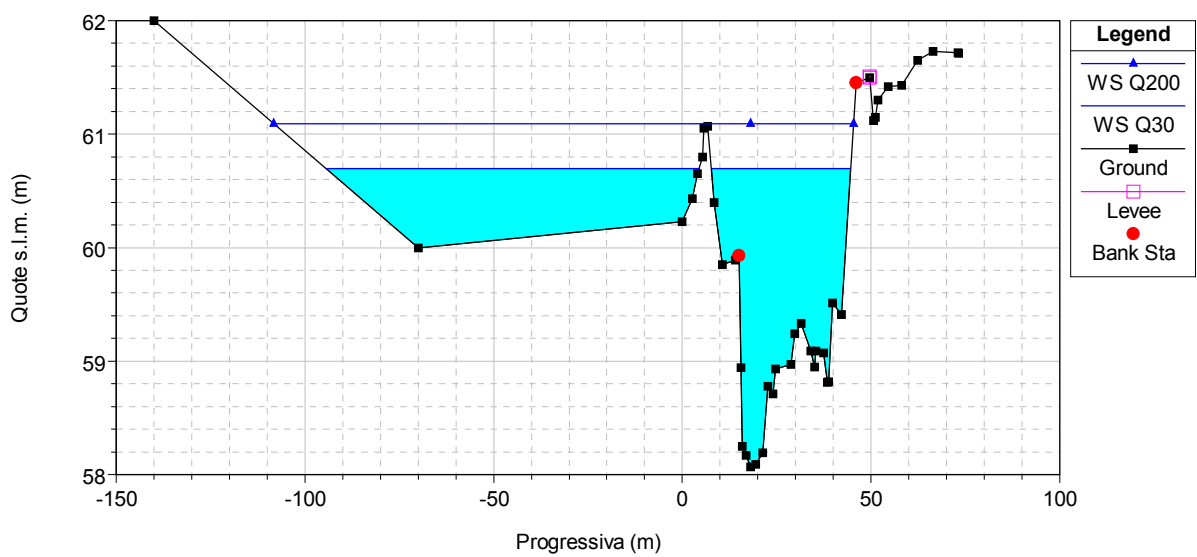
RS = 31 T.Virginio

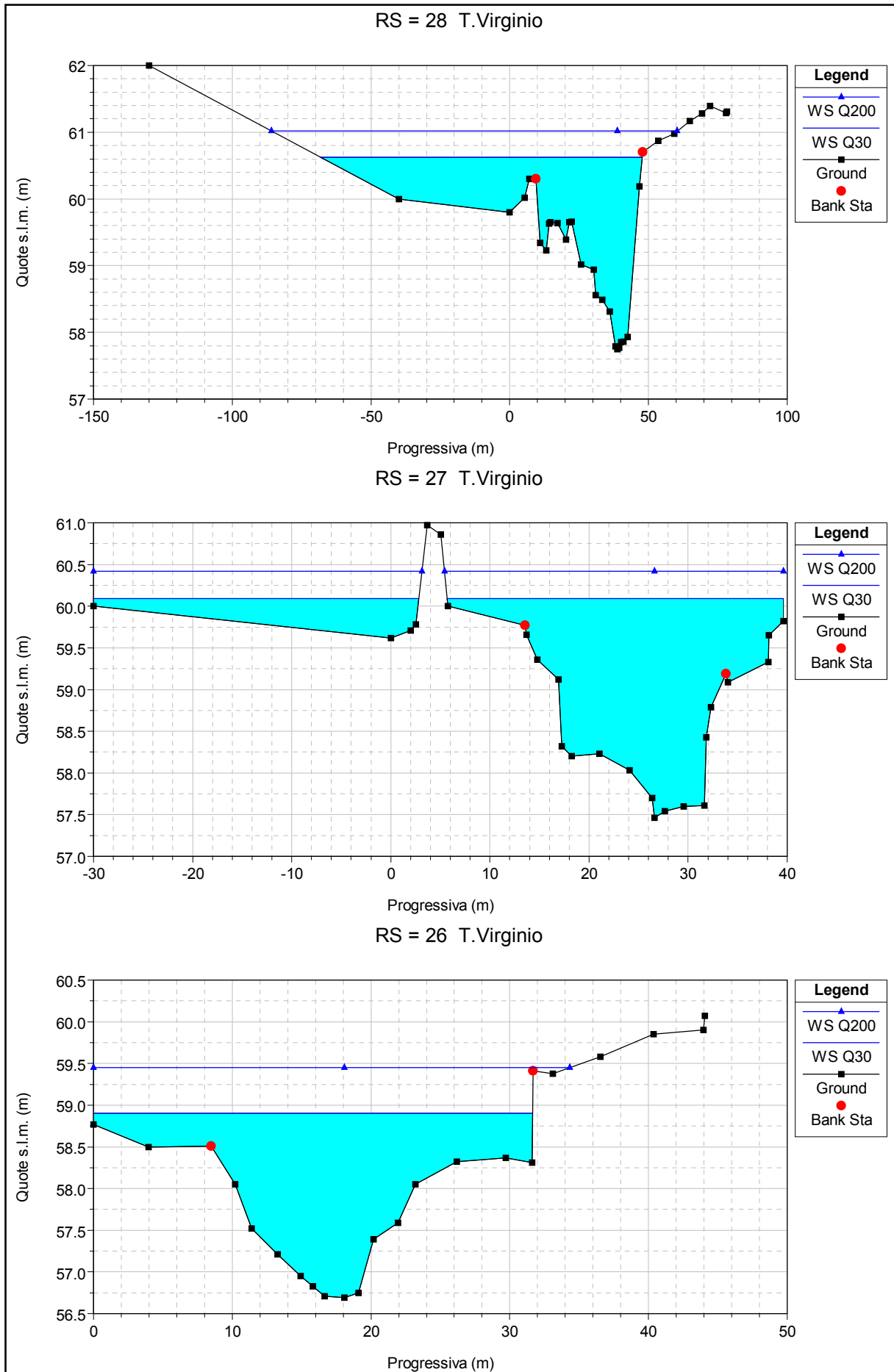


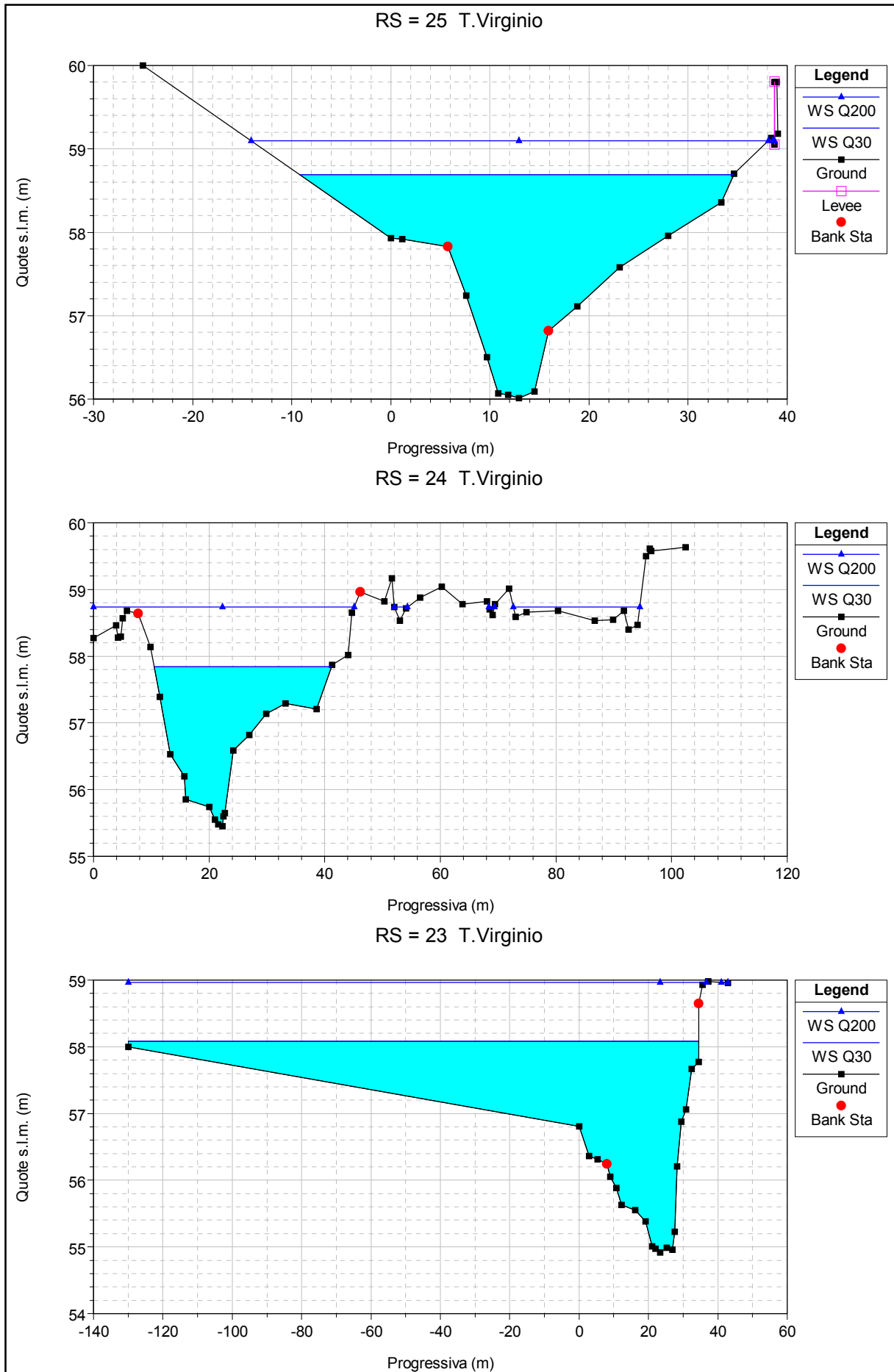
RS = 30 T.Virginio



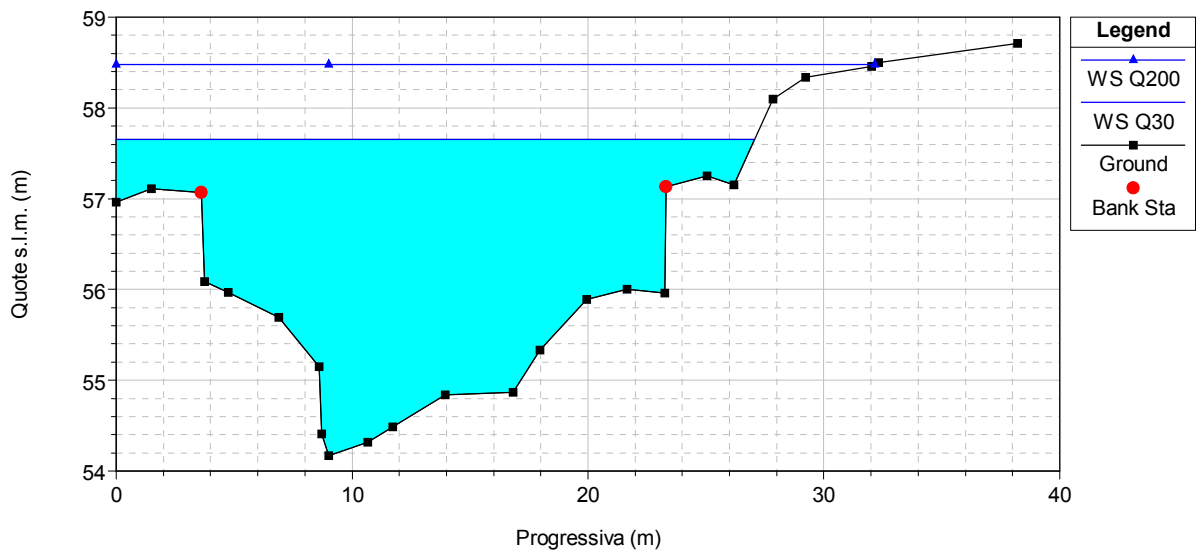
RS = 29 T.Virginio



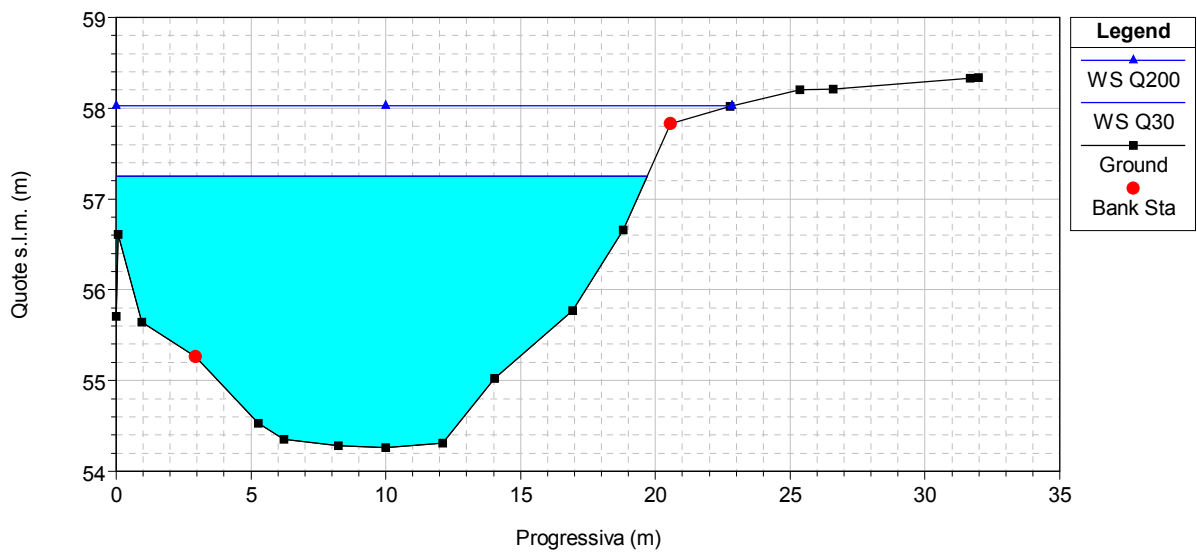




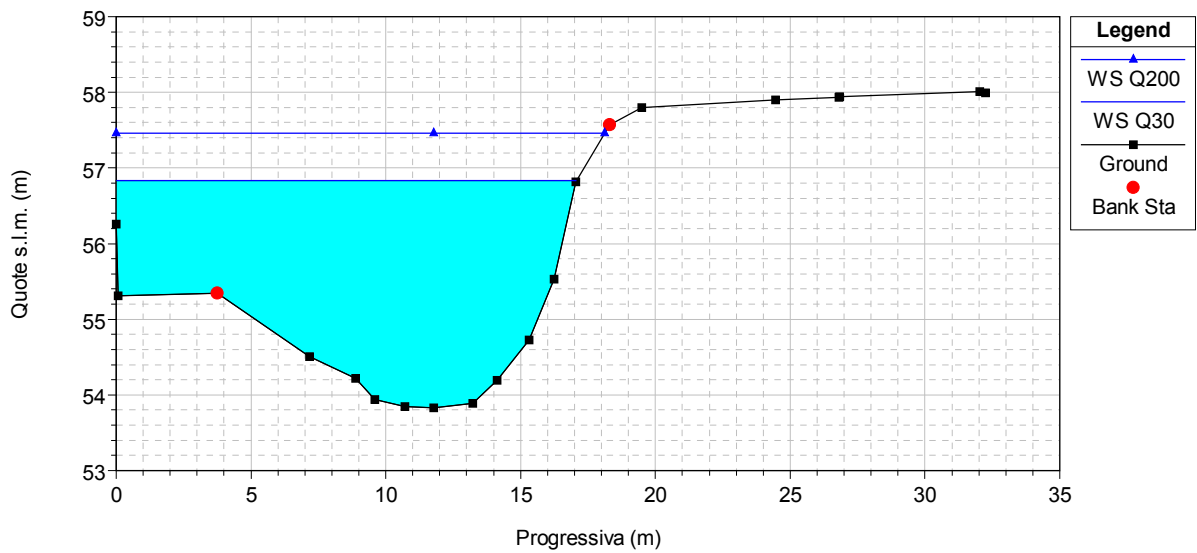
RS = 22 T.Virginio



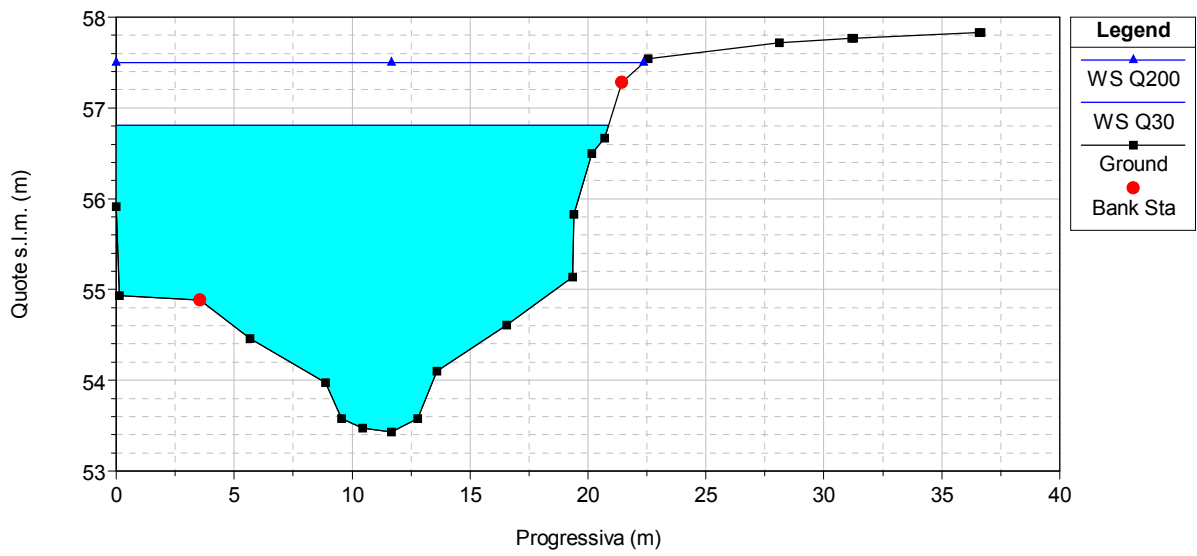
RS = 21 T.Virginio



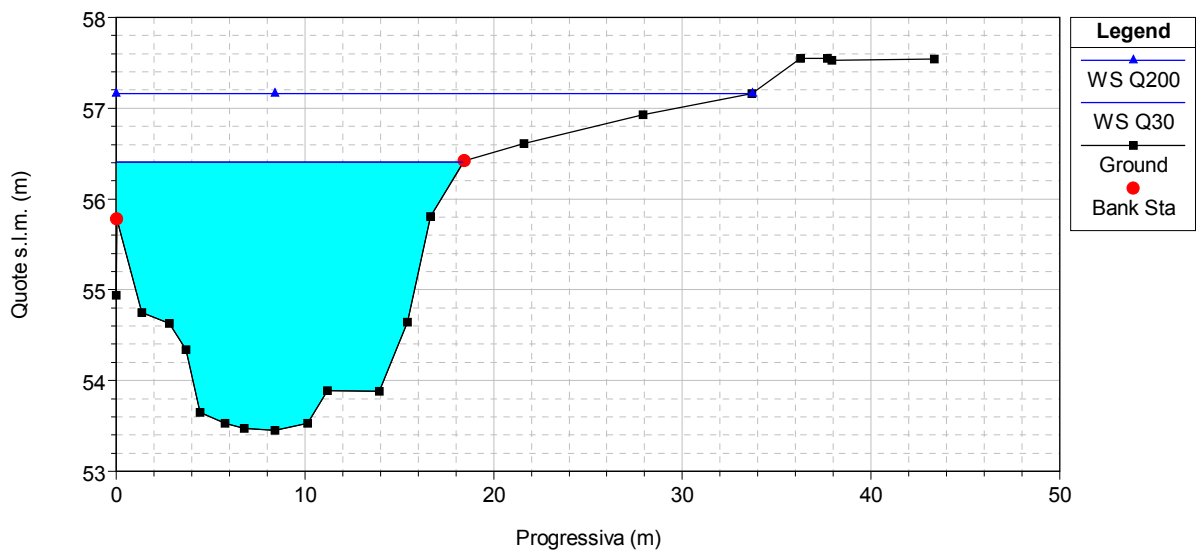
RS = 20 T.Virginio



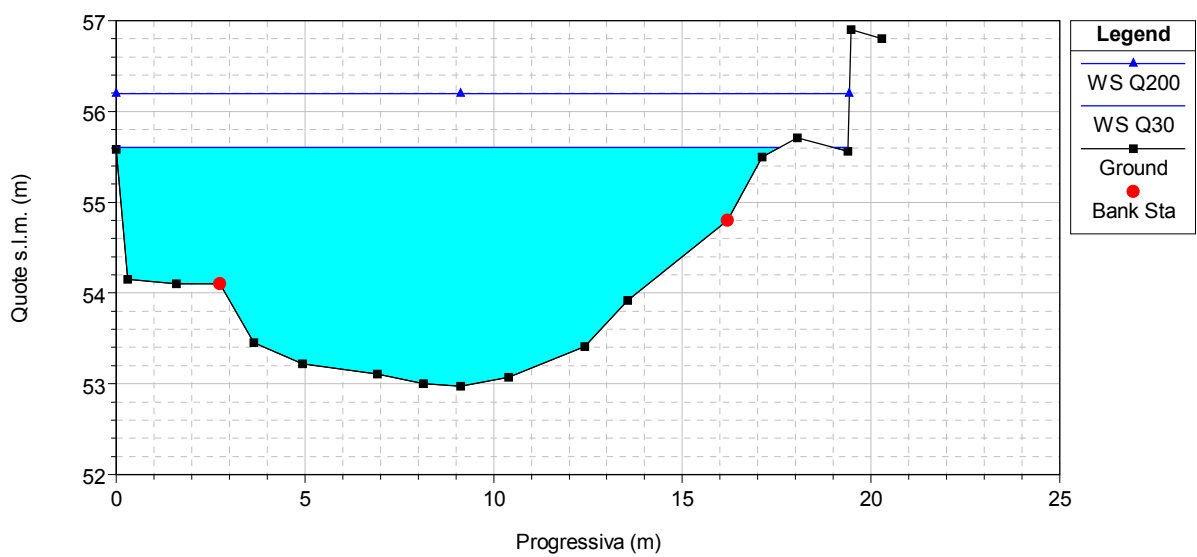
RS = 19 T.Virginio



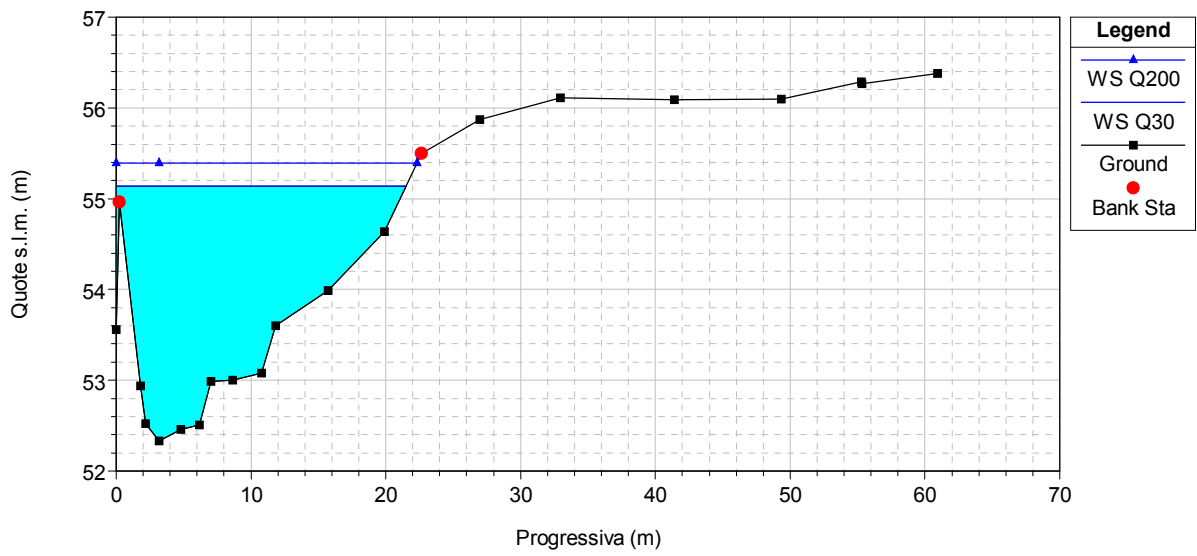
RS = 18 T.Virginio



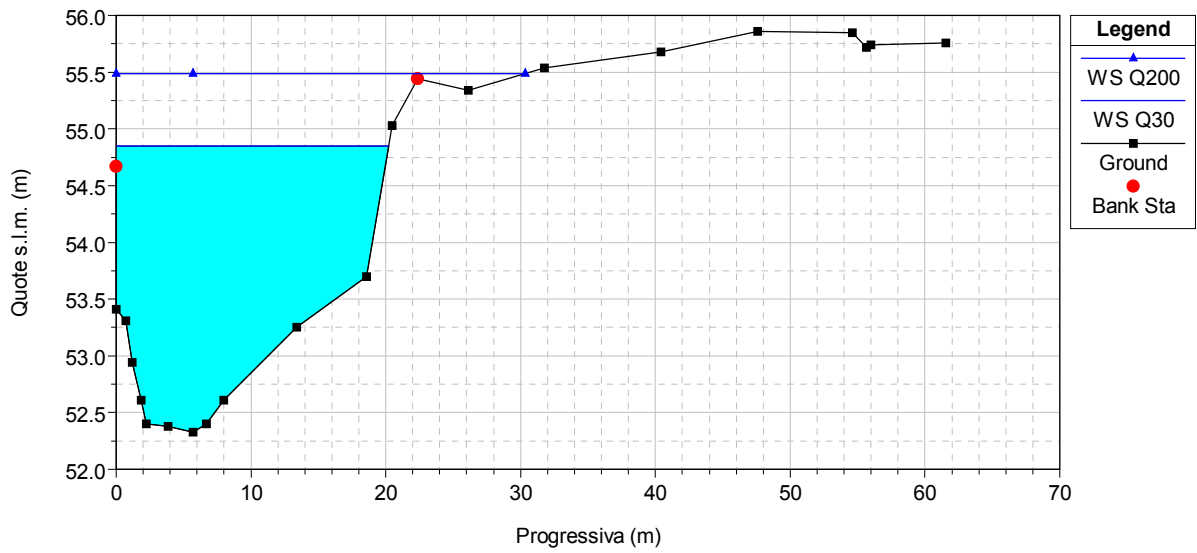
RS = 17 T.Virginio



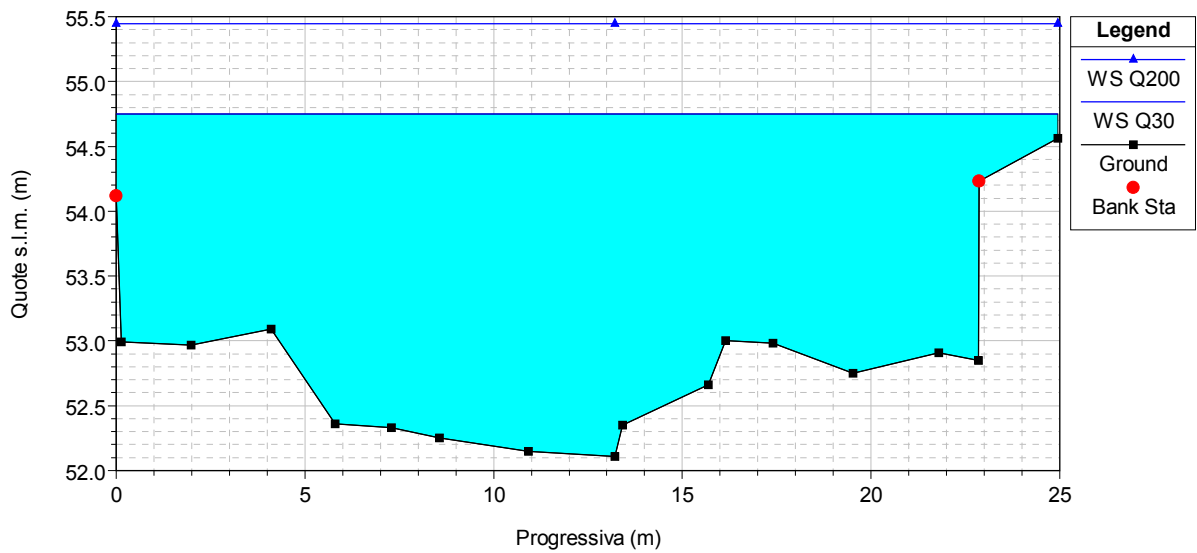
RS = 16 T.Virginio



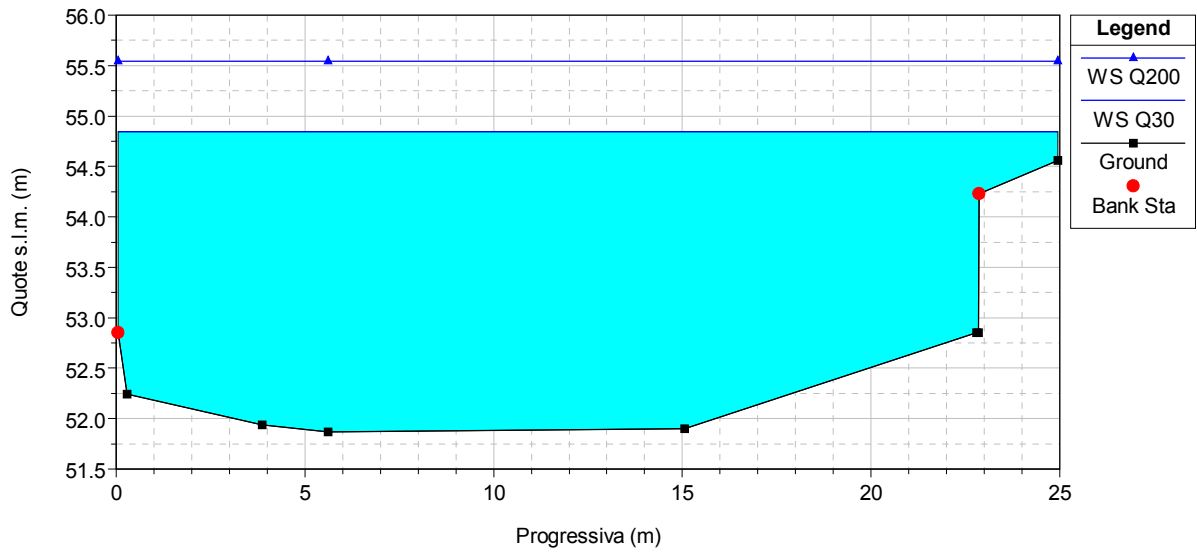
RS = 15 T.Virginio



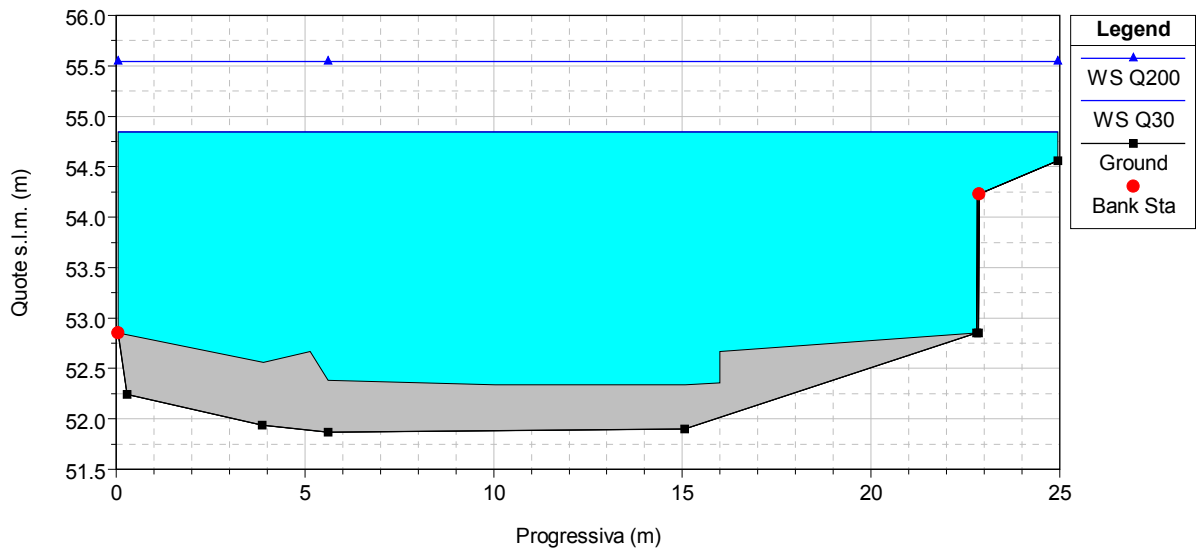
RS = 14 T.Virginio



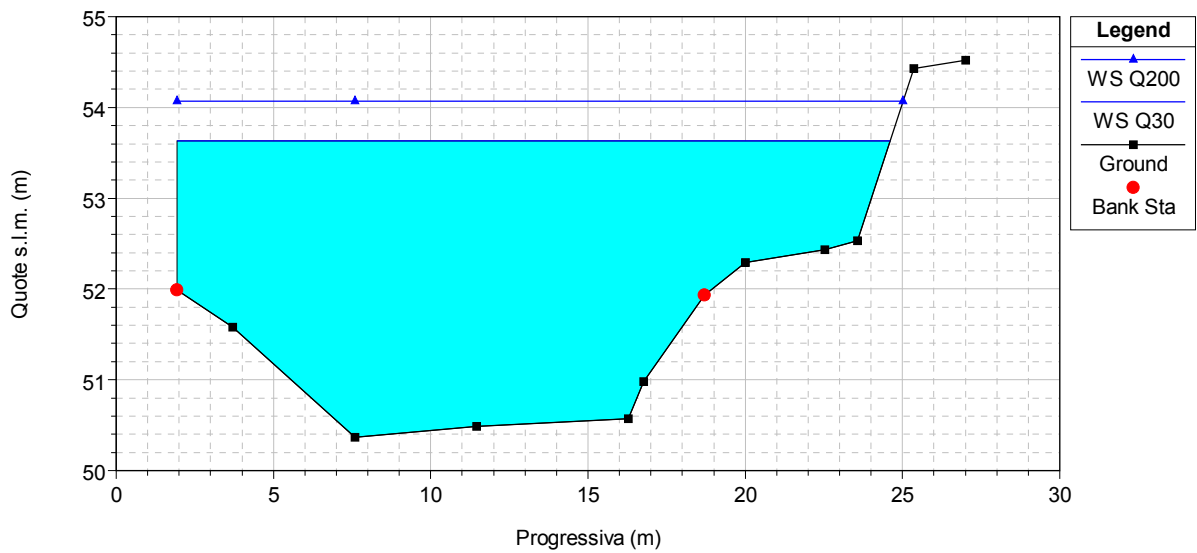
RS = 13.3 T.Virginio

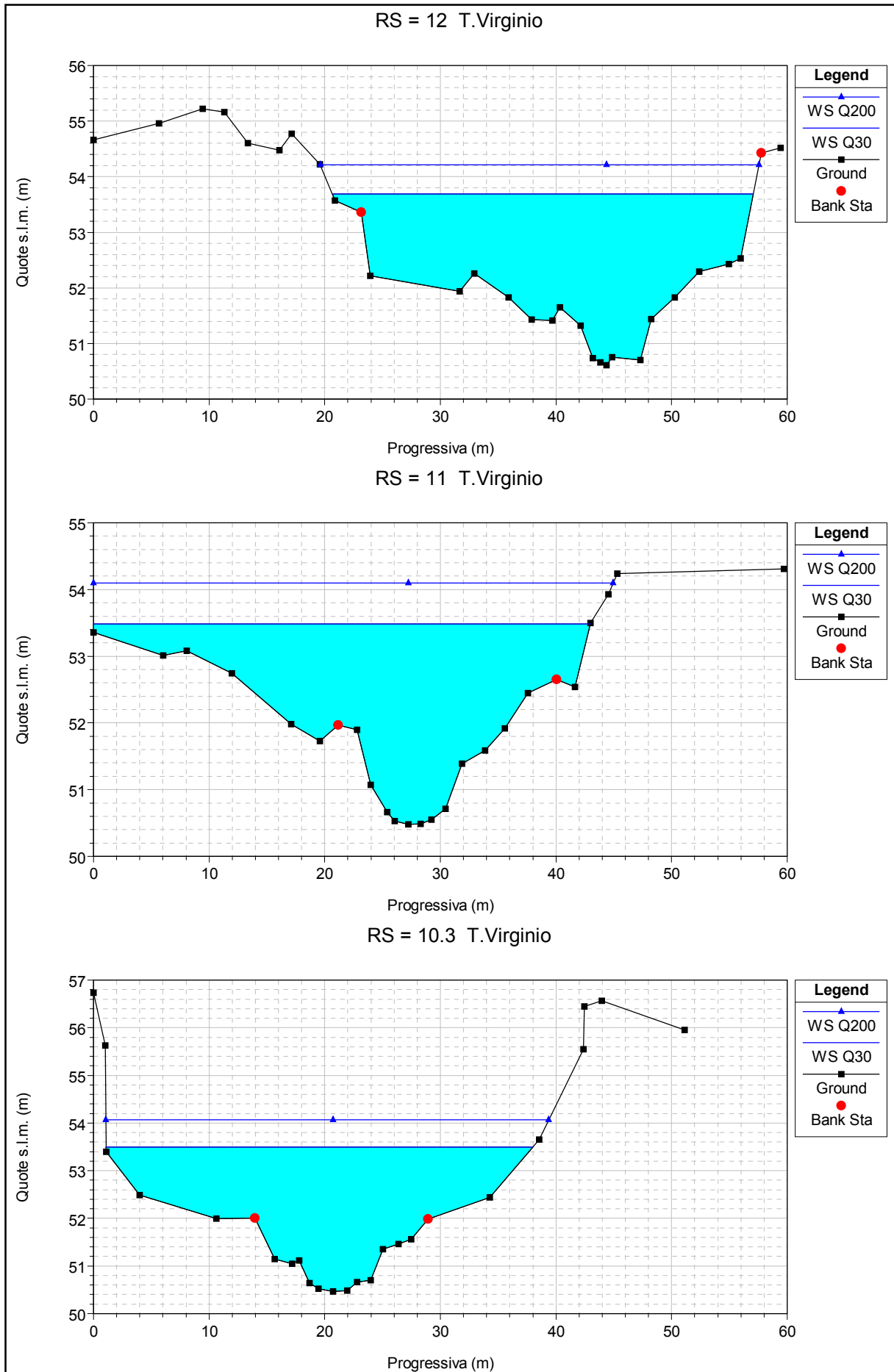


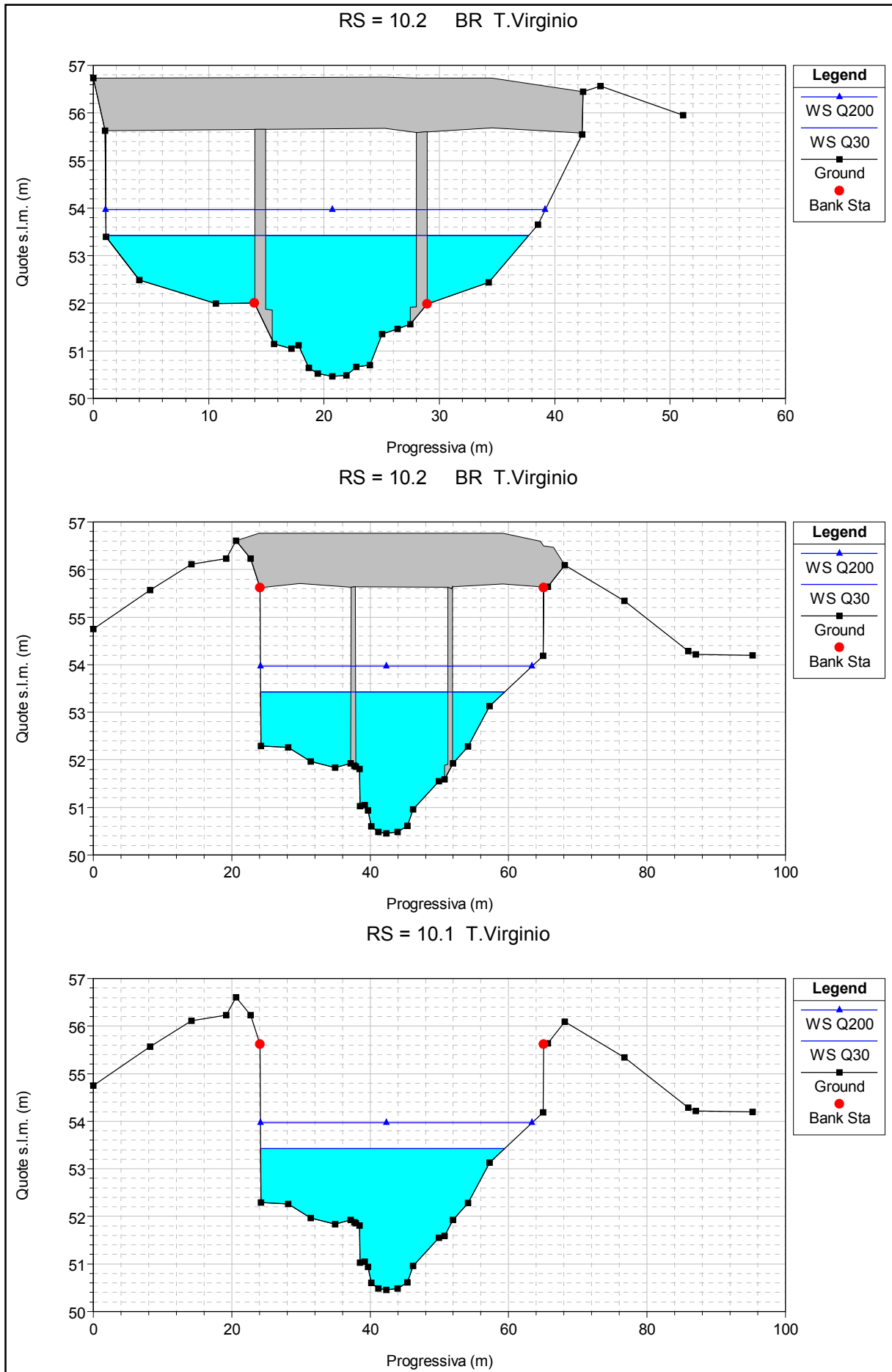
RS = 13.2 IS T.Virginio

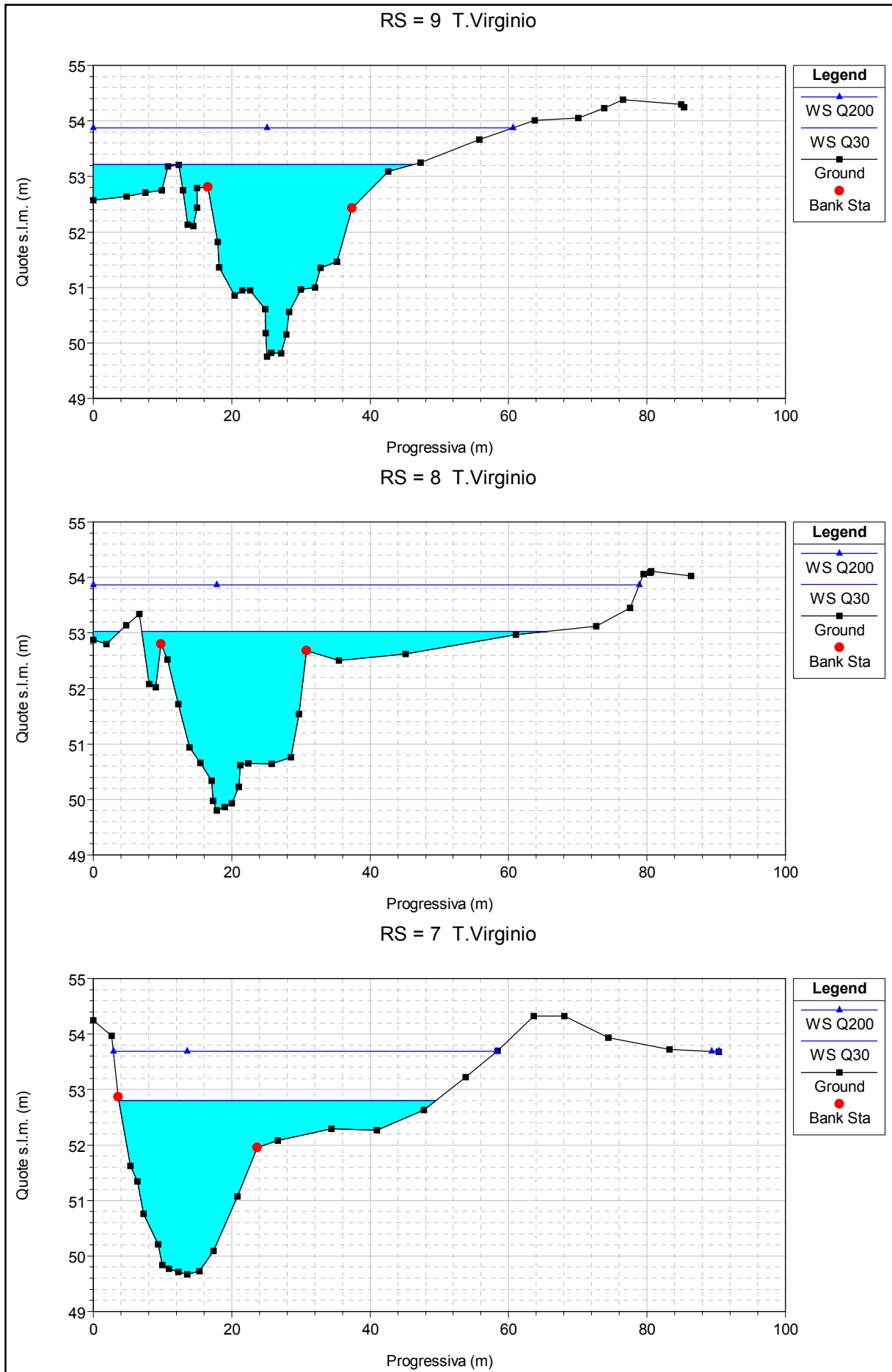


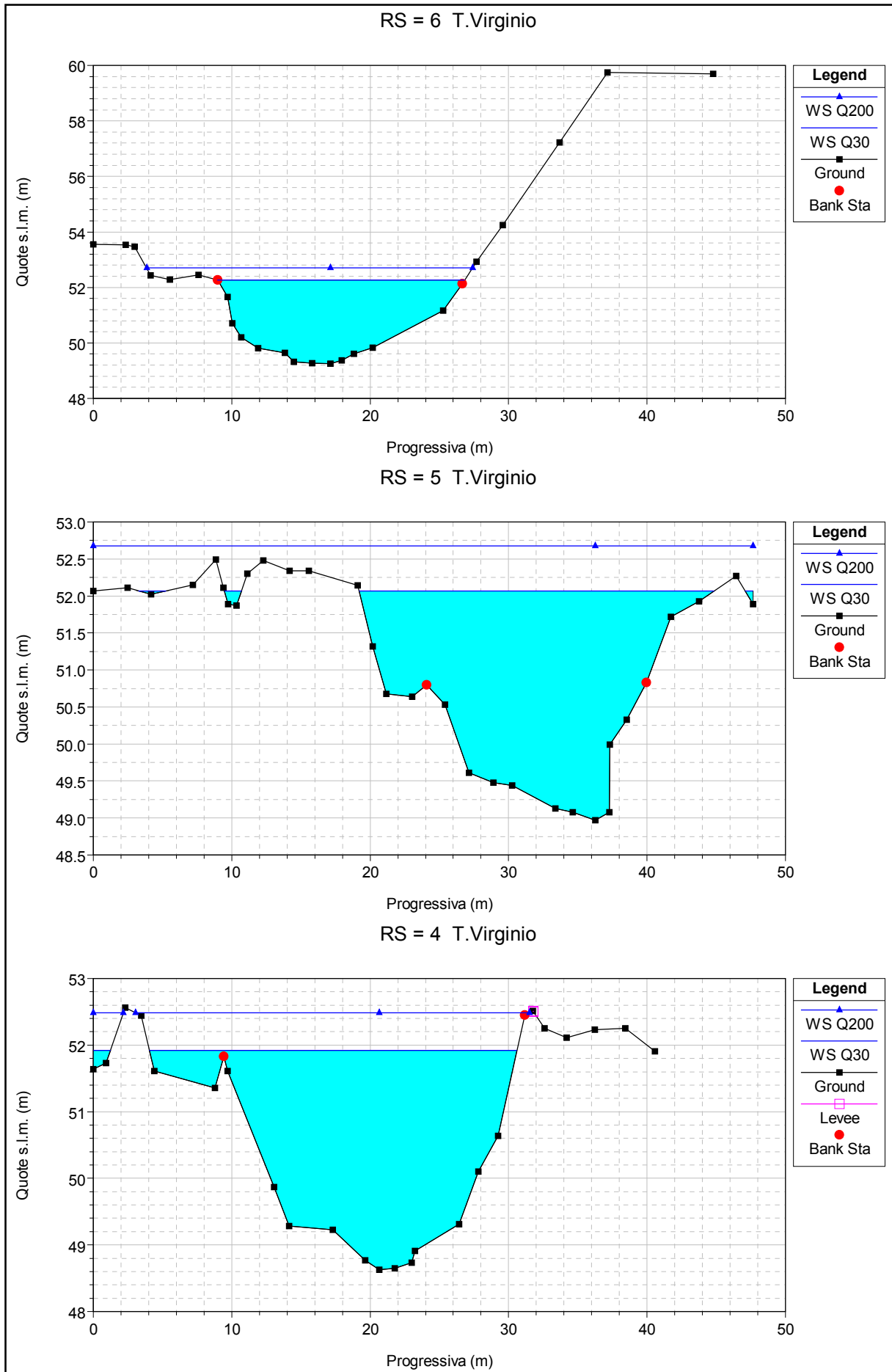
RS = 13.1 T.Virginio



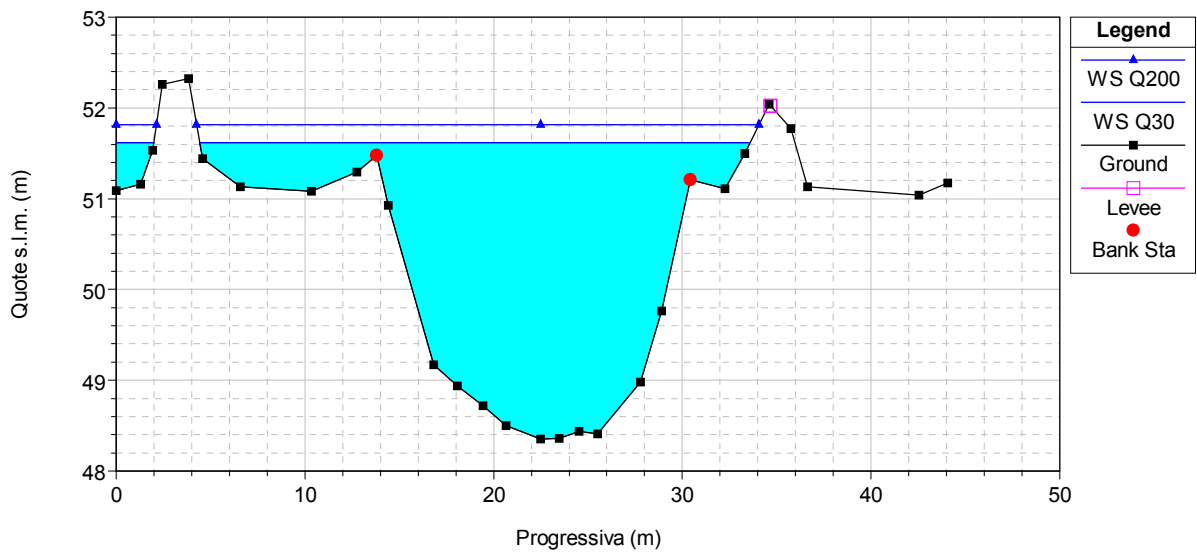




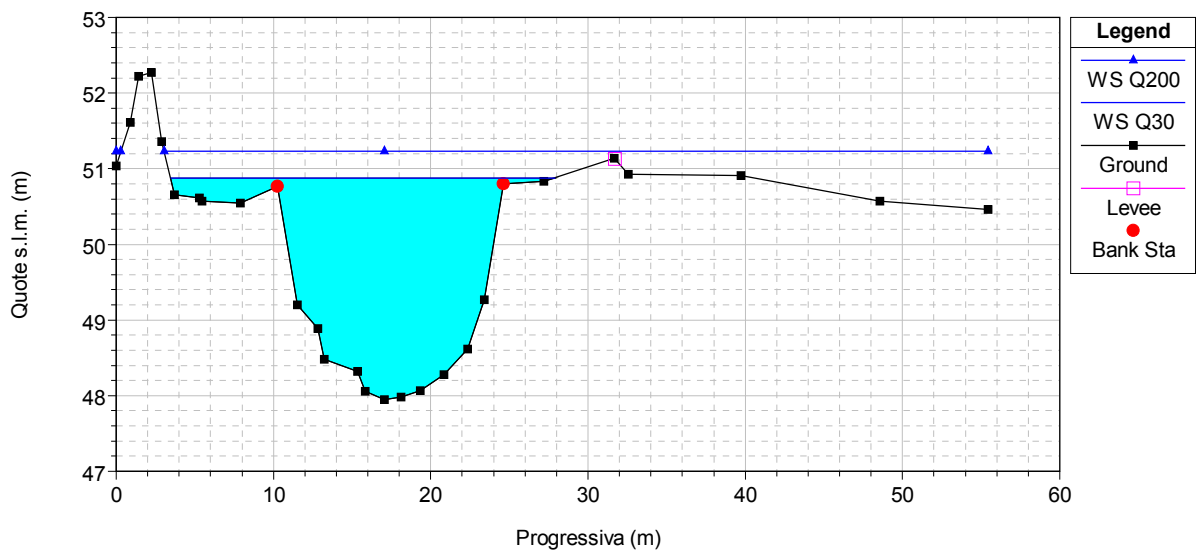




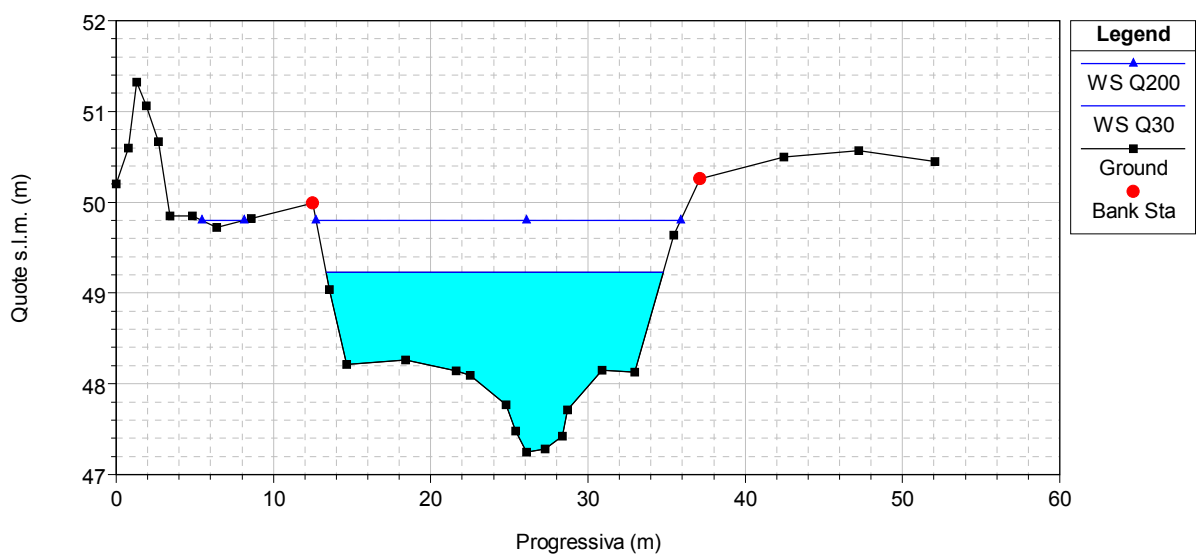
RS = 3 T.Virginio



RS = 2 T.Virginio



RS = 1 T.Virginio



RS = 0 T.Virginio

