

## **Rio San Martino**

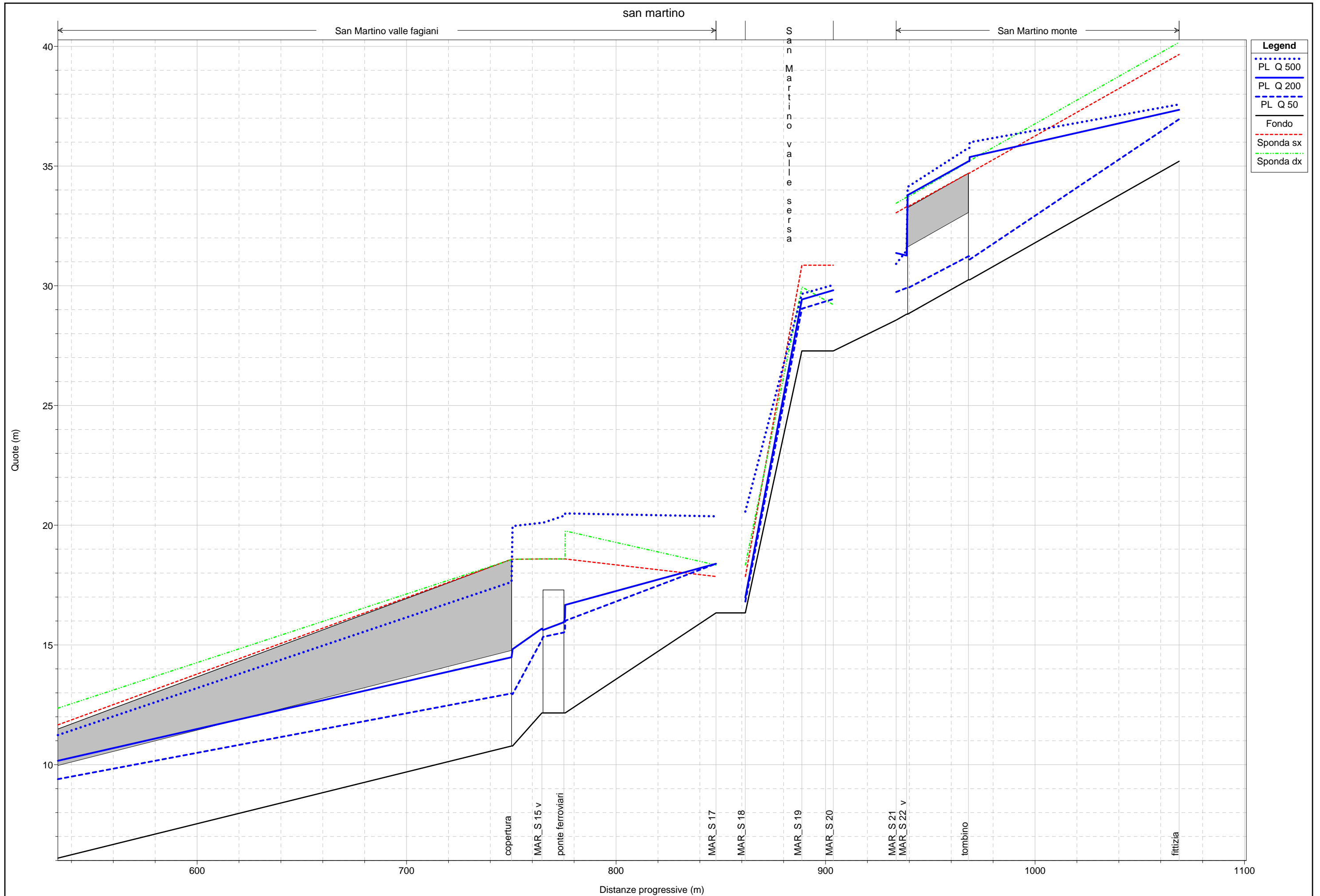
Asta principale: dalla sezione MAR\_S23 alla MAR\_S1

Rio Sersa: dalla sezione SER\_S4 alla SER\_S1

Rio Fagiani: dalla sezione FAG\_S3 alla FAG\_S1

Rio Rovere: dalla sezione ROV\_S6 alla ROV\_S1

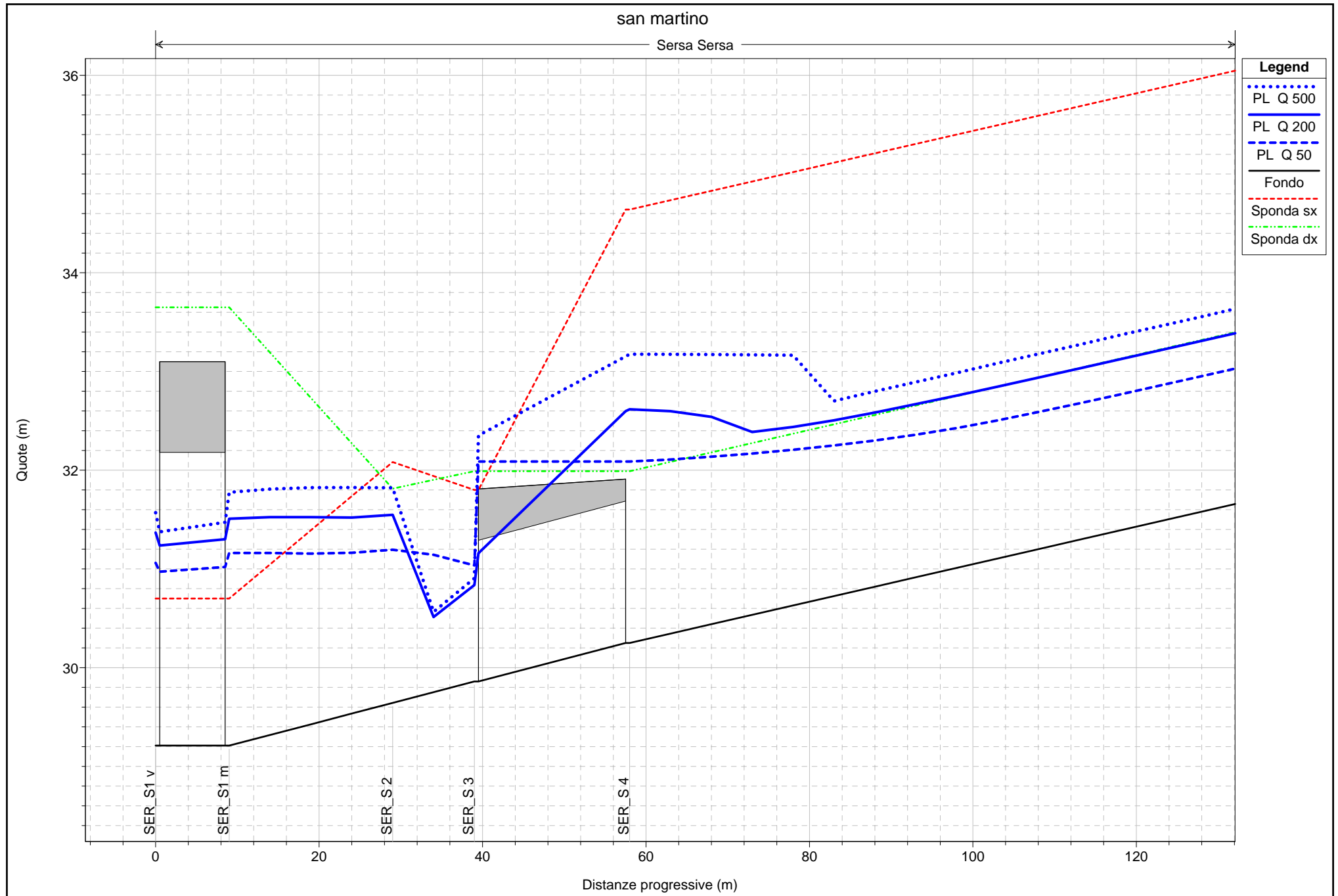
- Profili di corrente
- Sezioni idrauliche
- Tabelle dei risultati

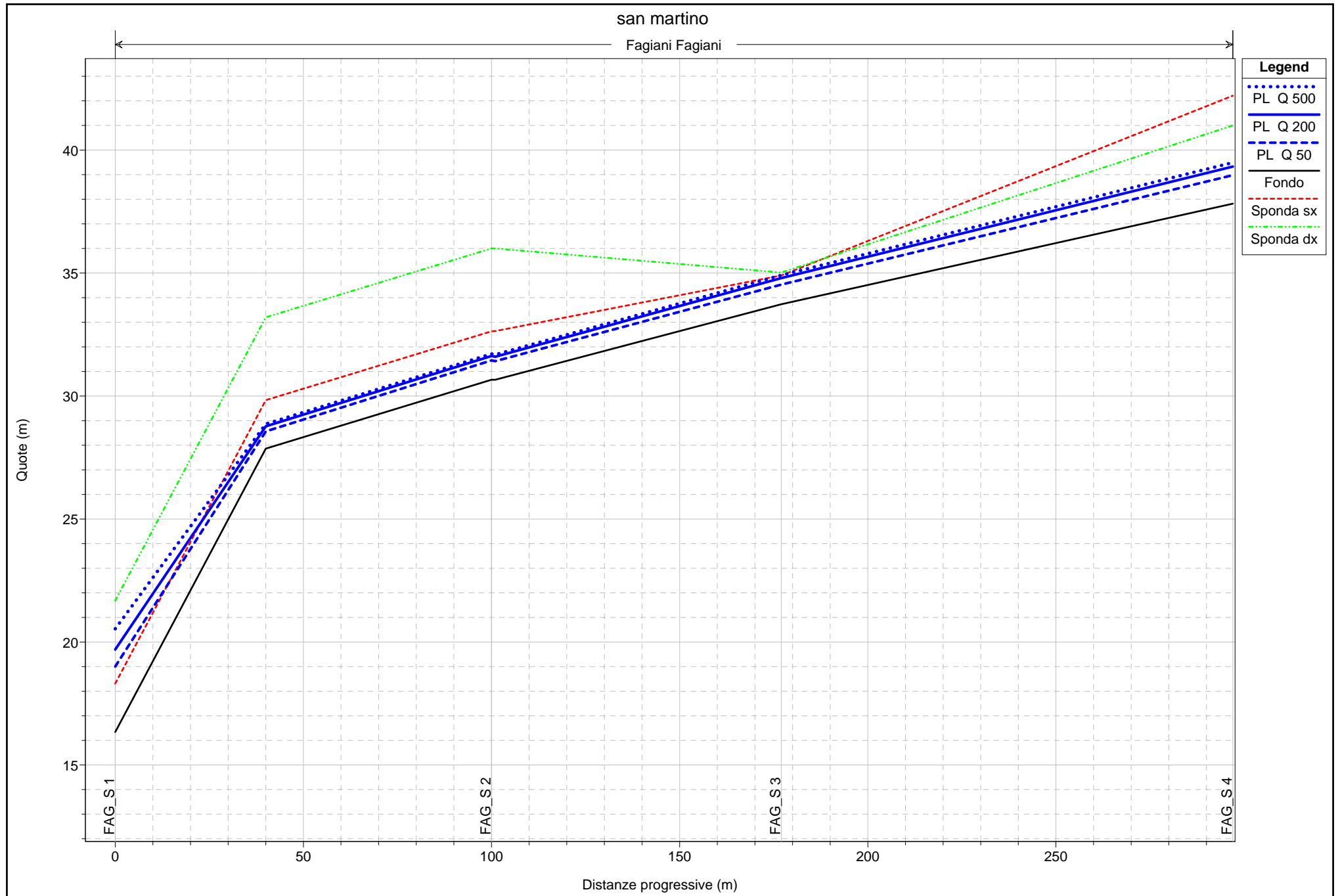


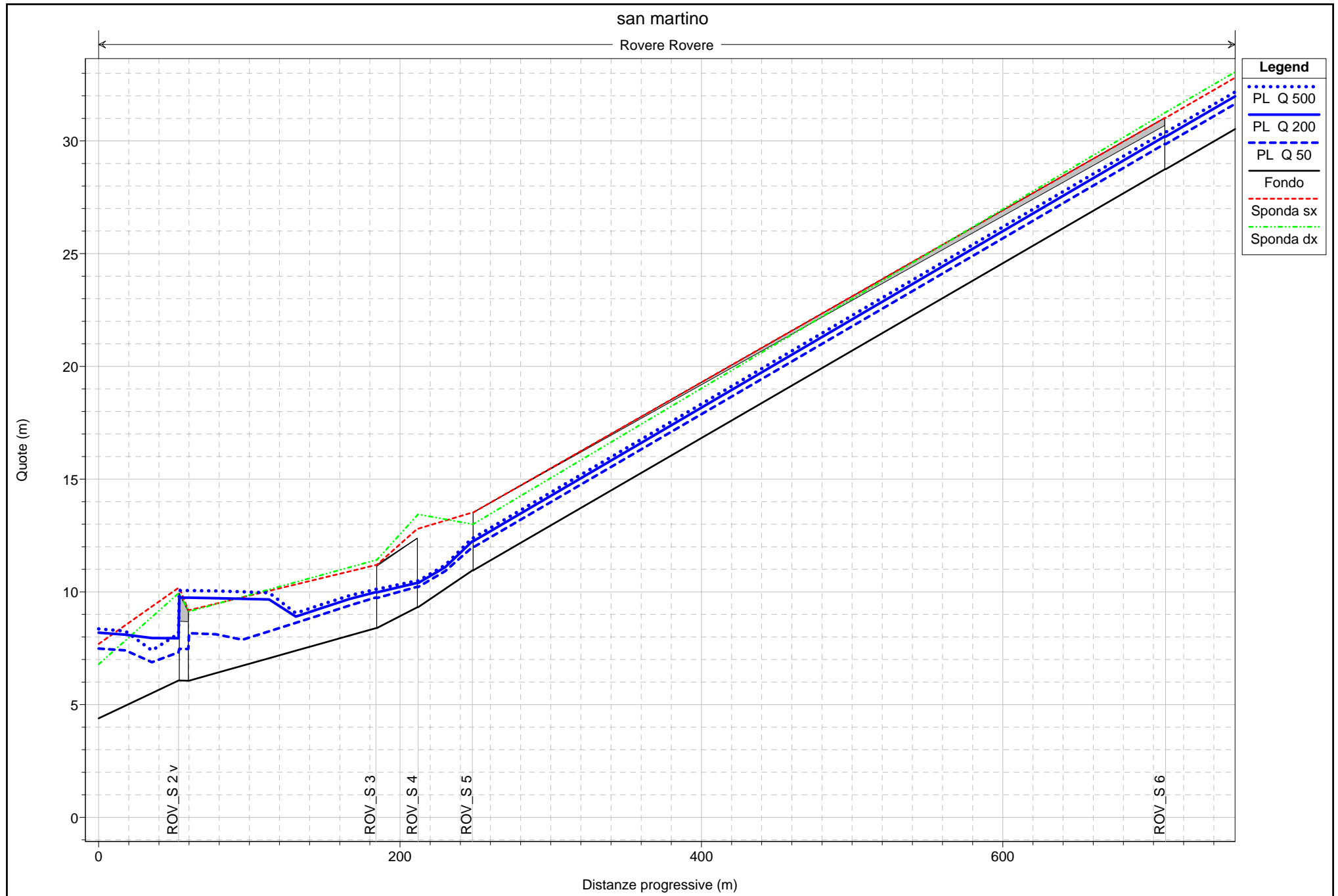
1 cm Horiz. = 16 m 1 cm Vert. = 1.4 m

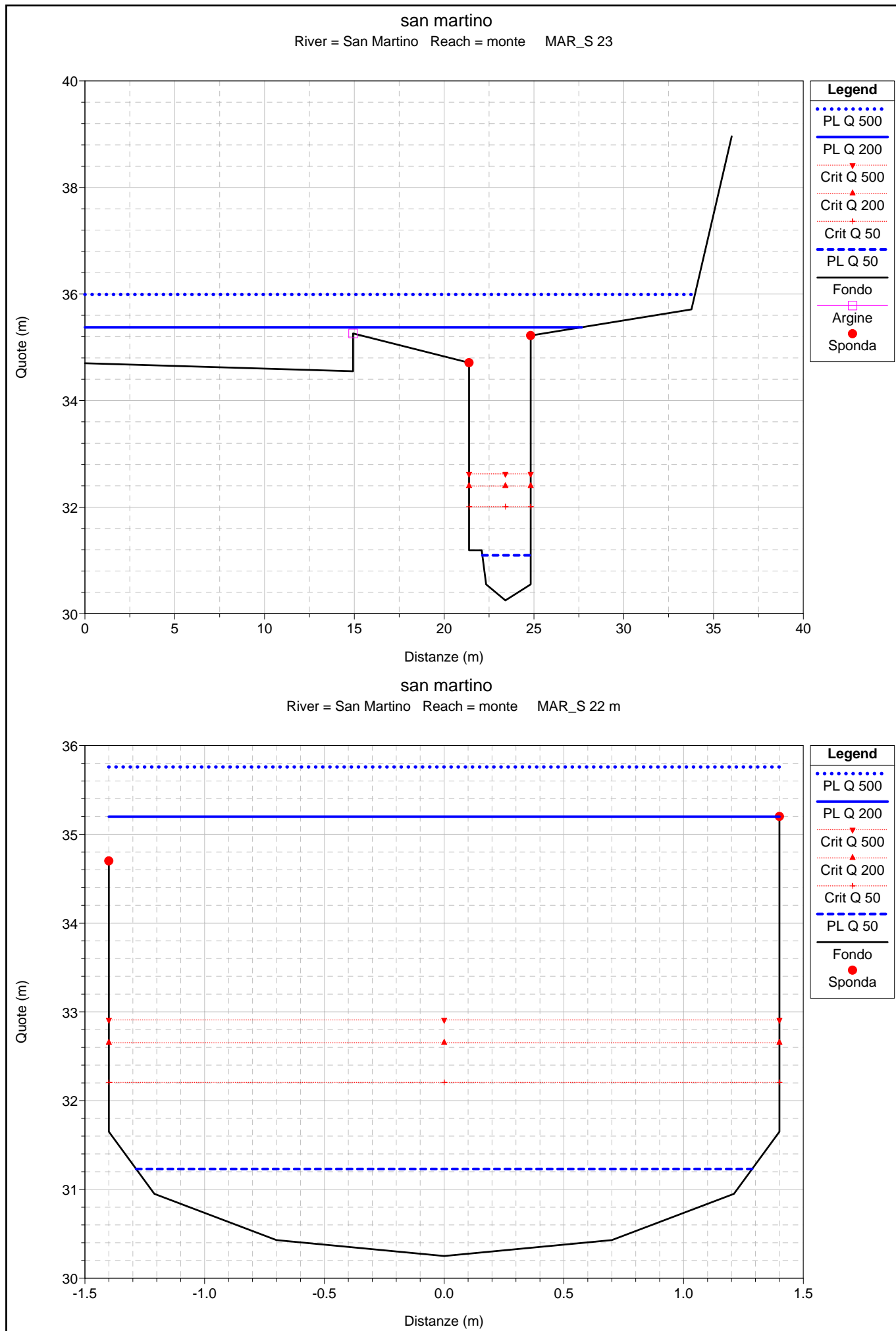
Approvato con D.C.P. n. 28 del 28-03-2007

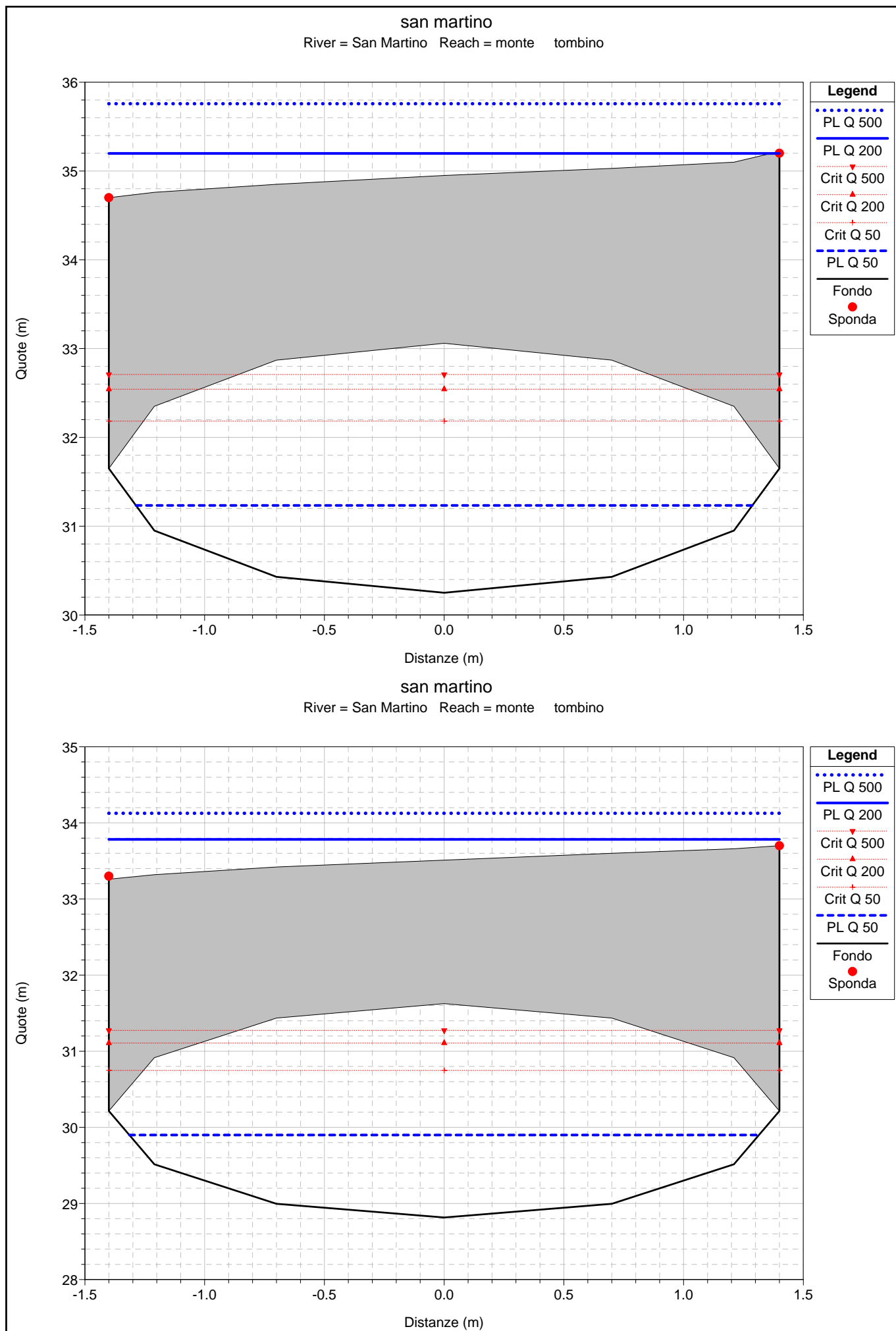




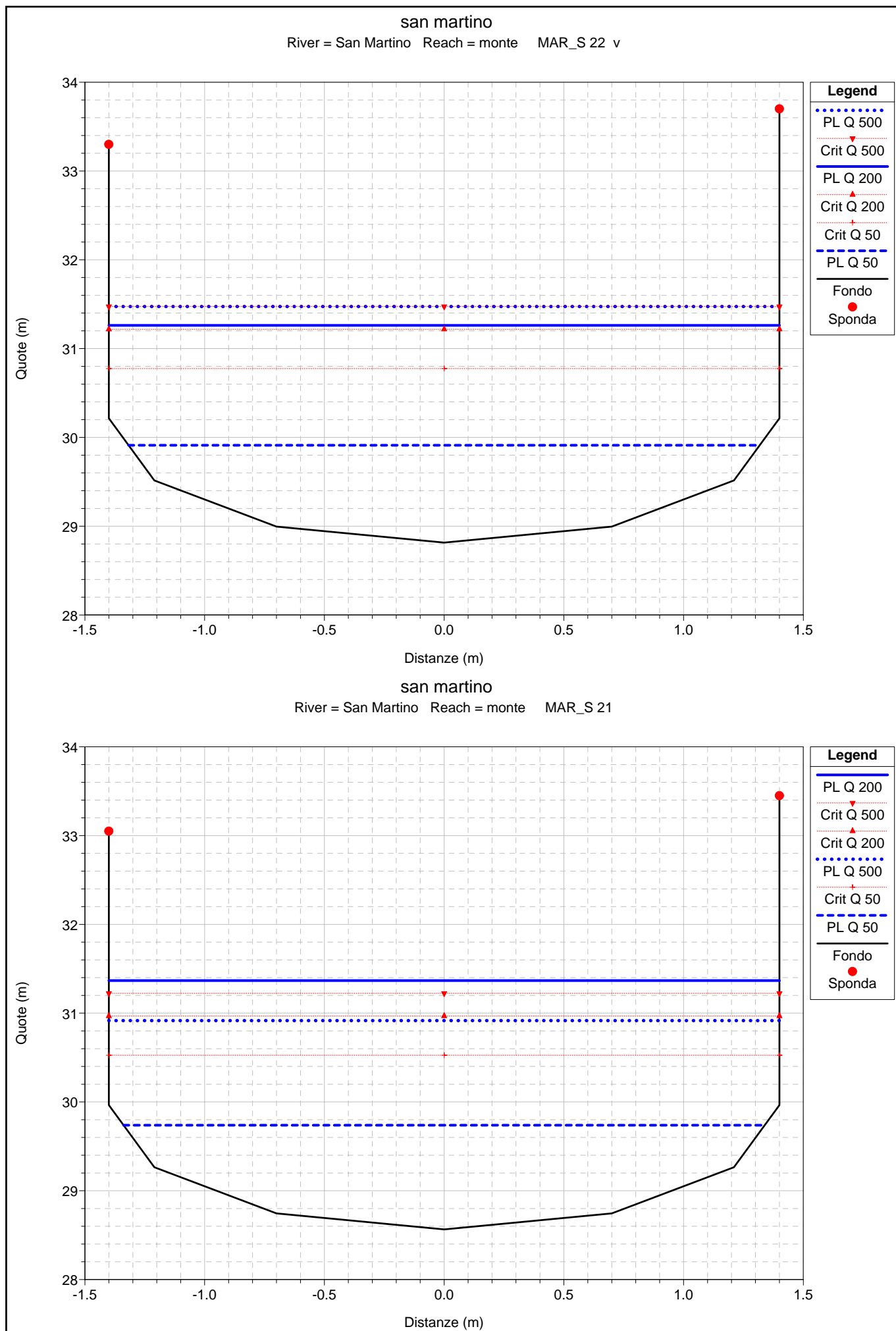


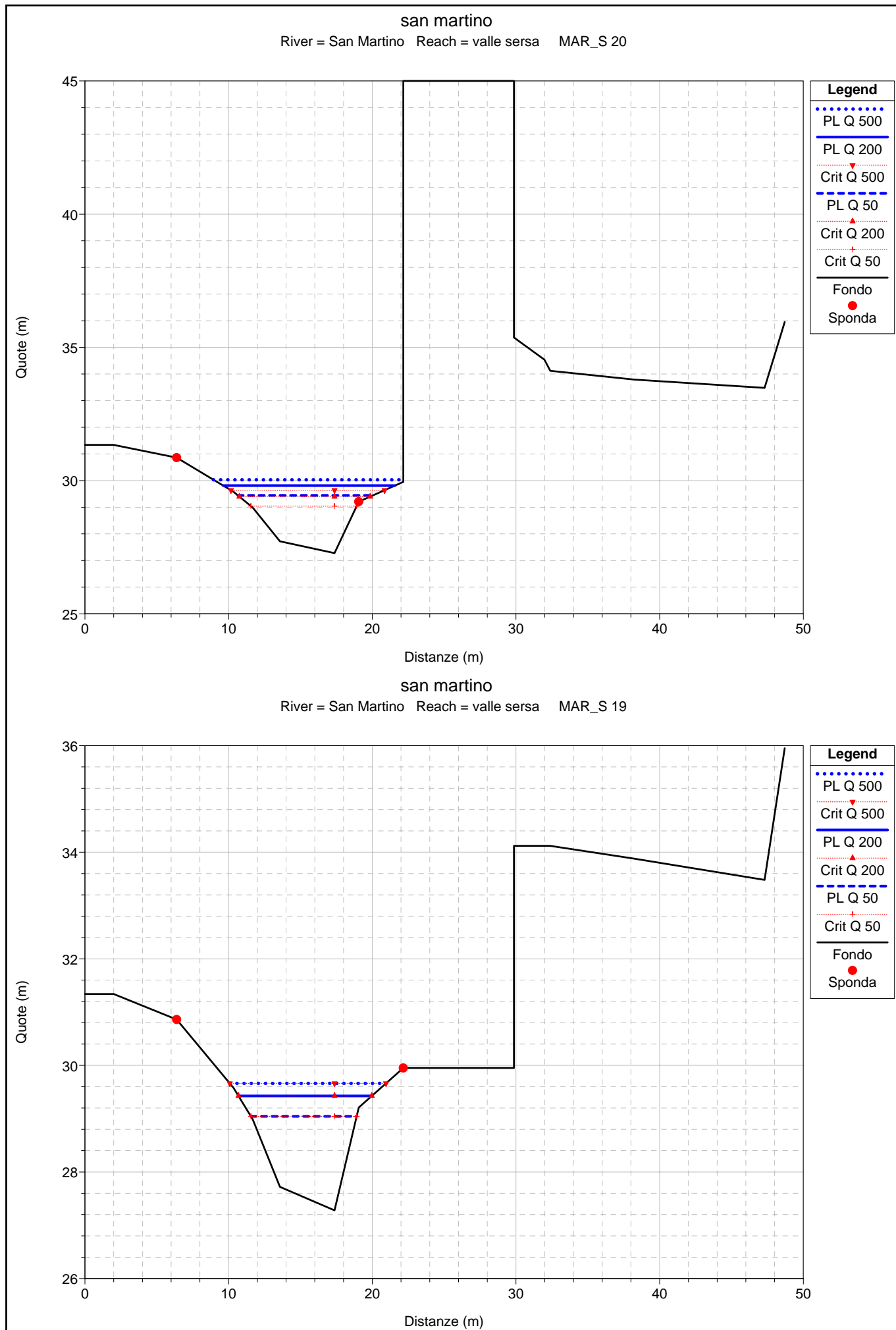


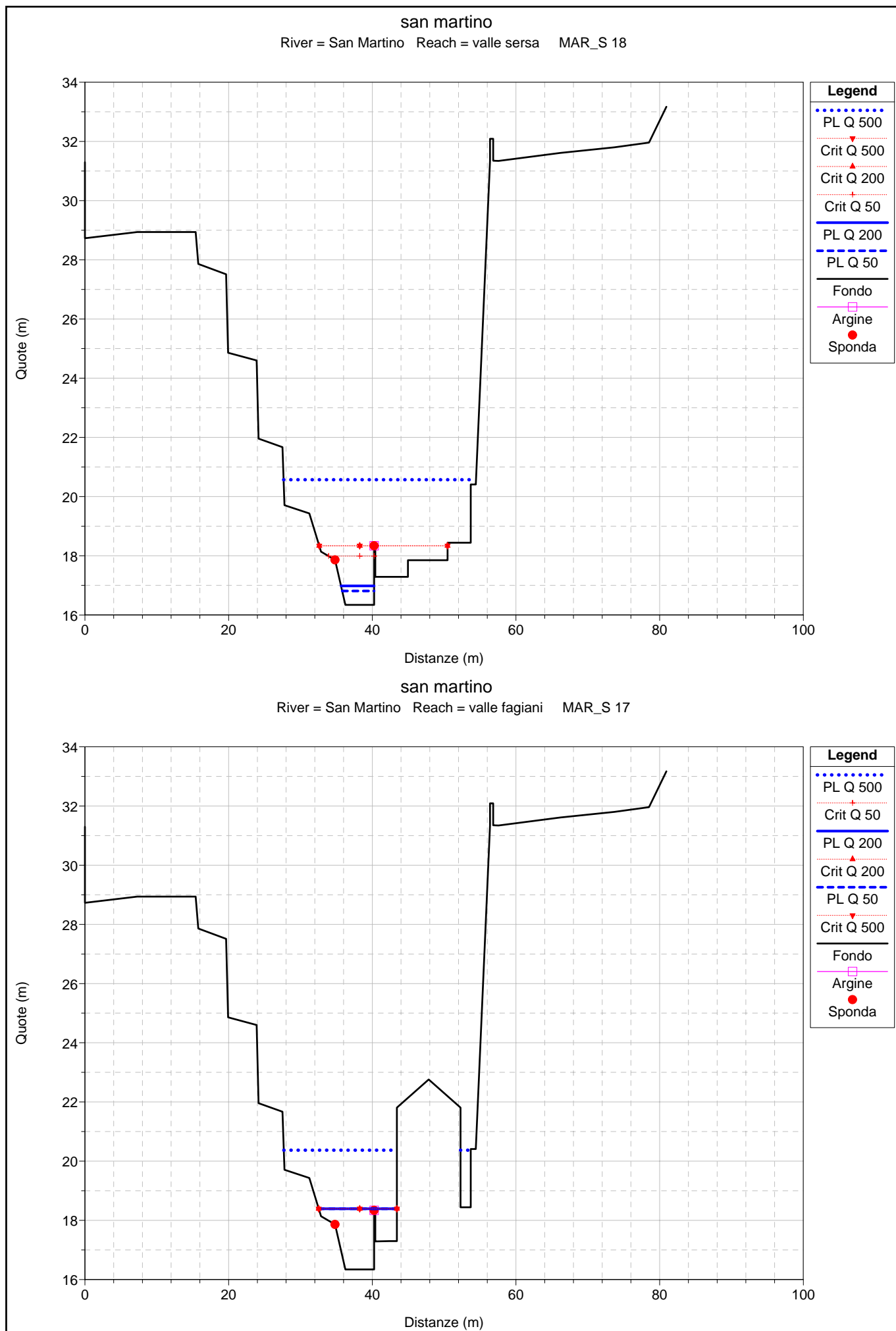


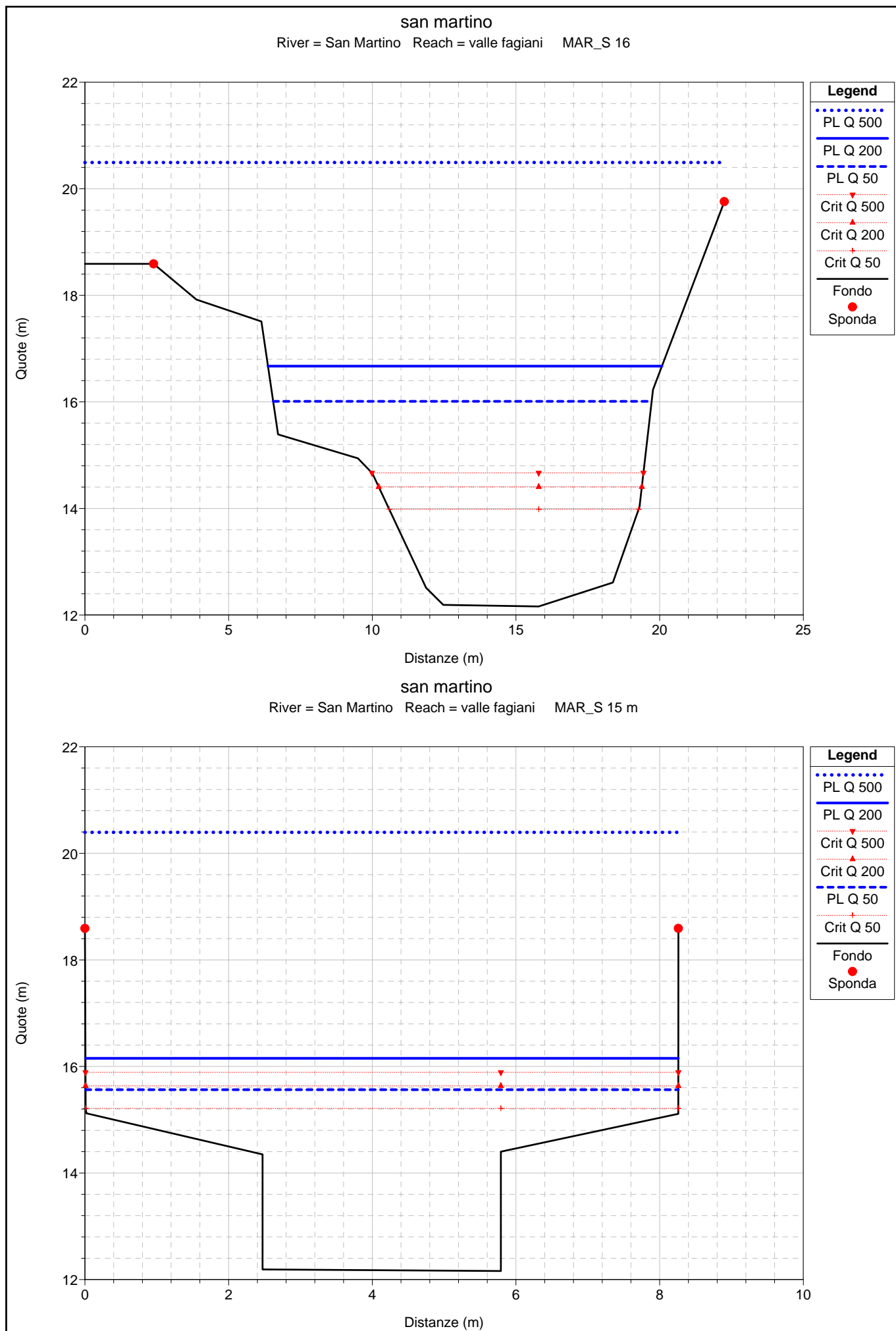


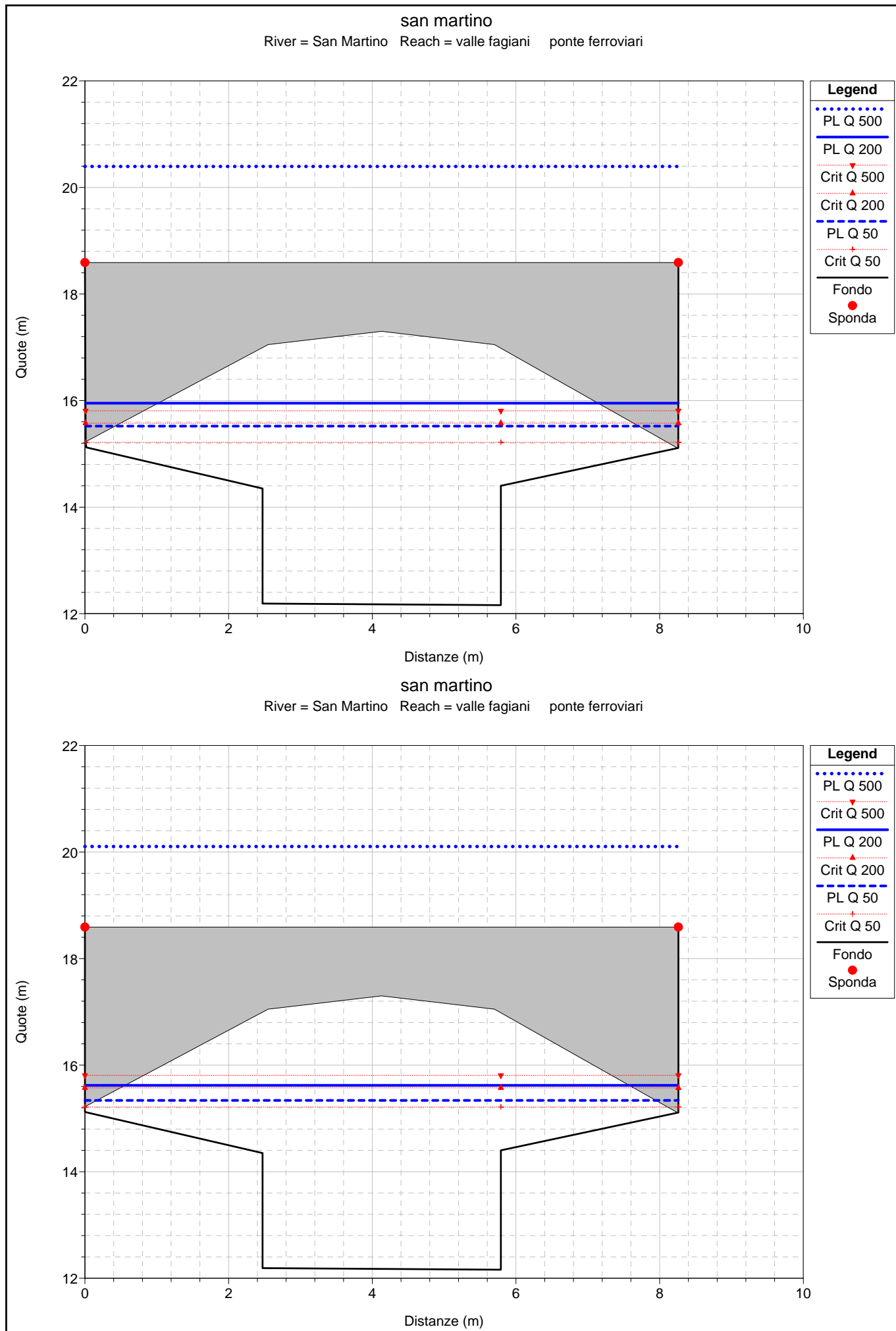


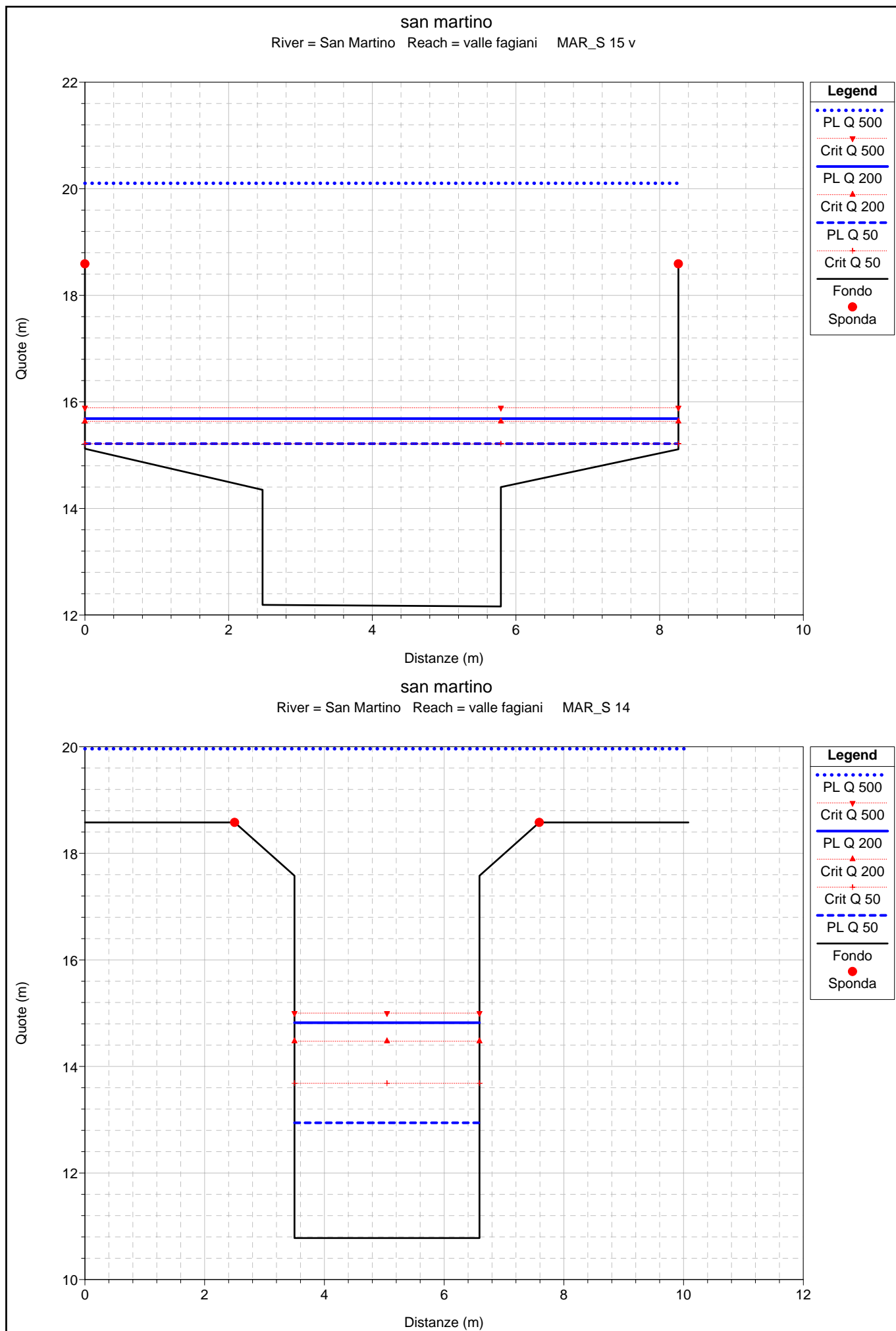


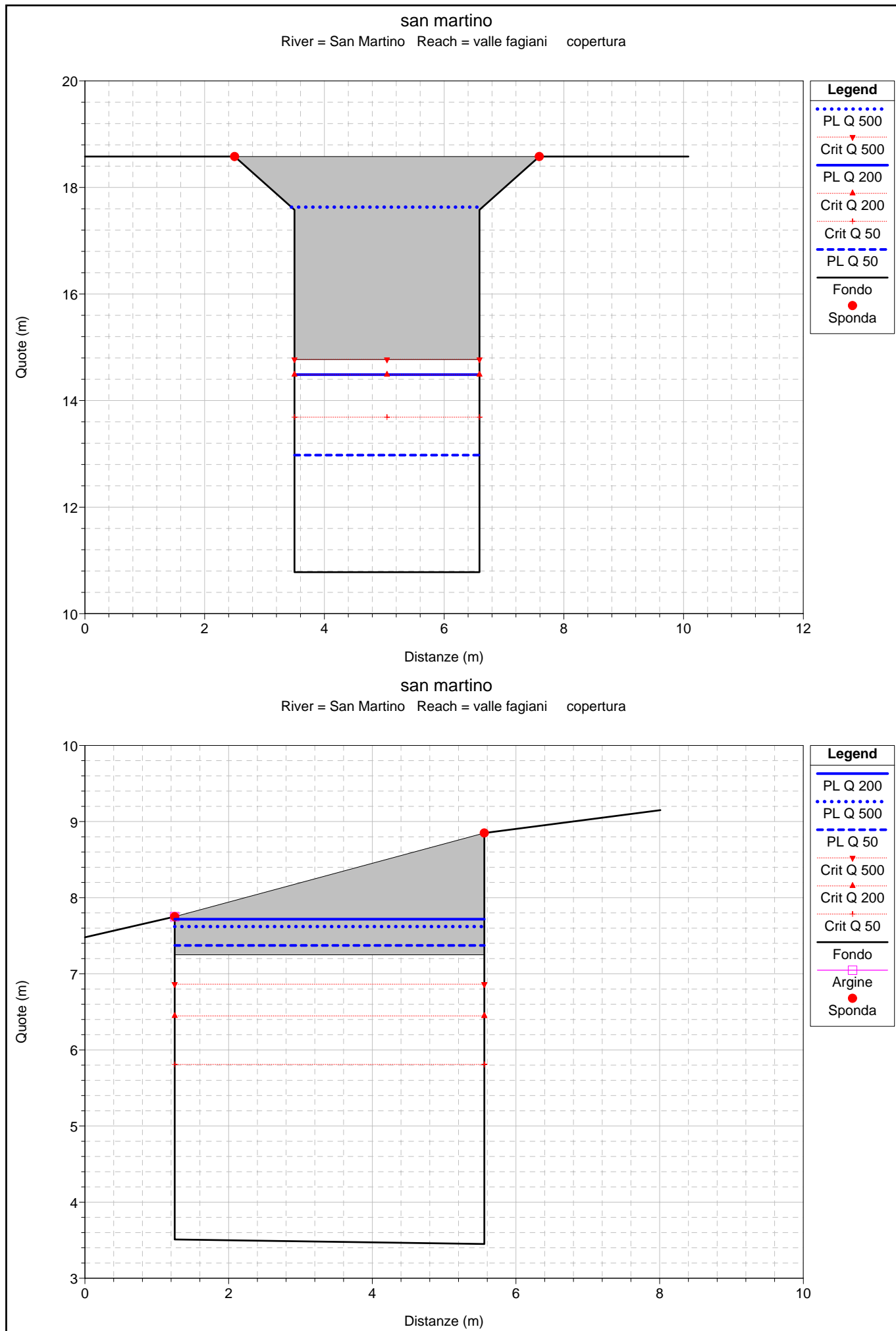


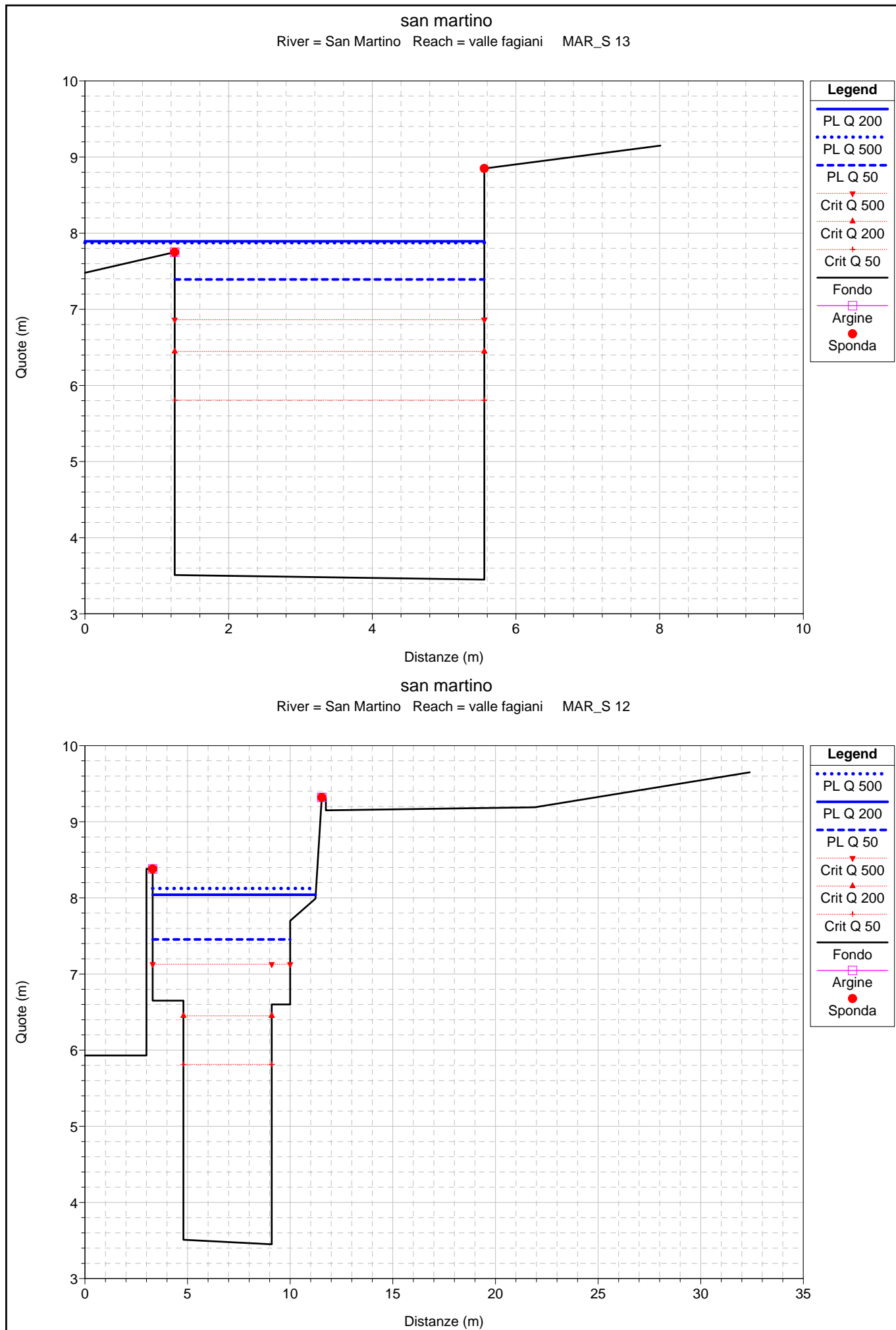




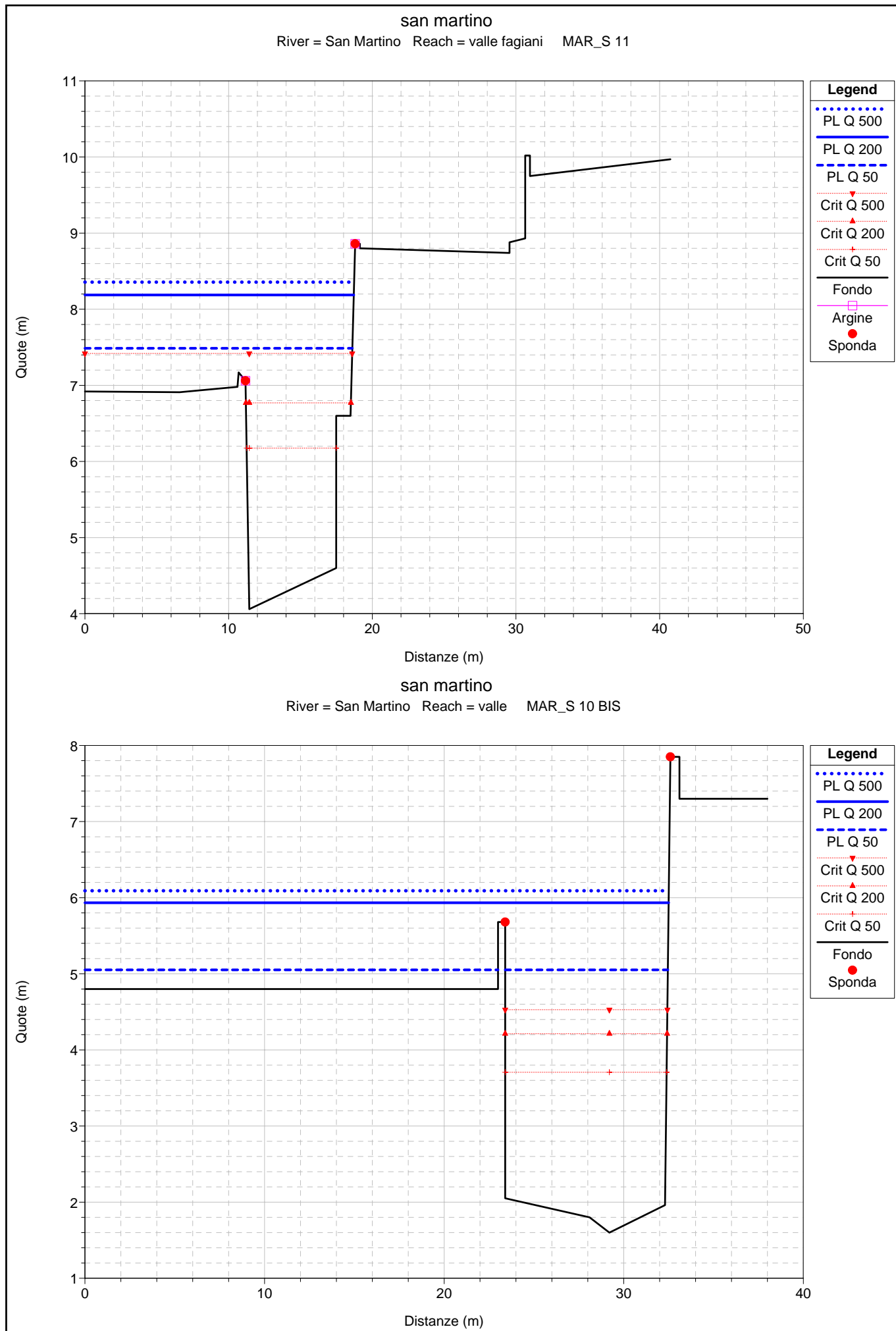


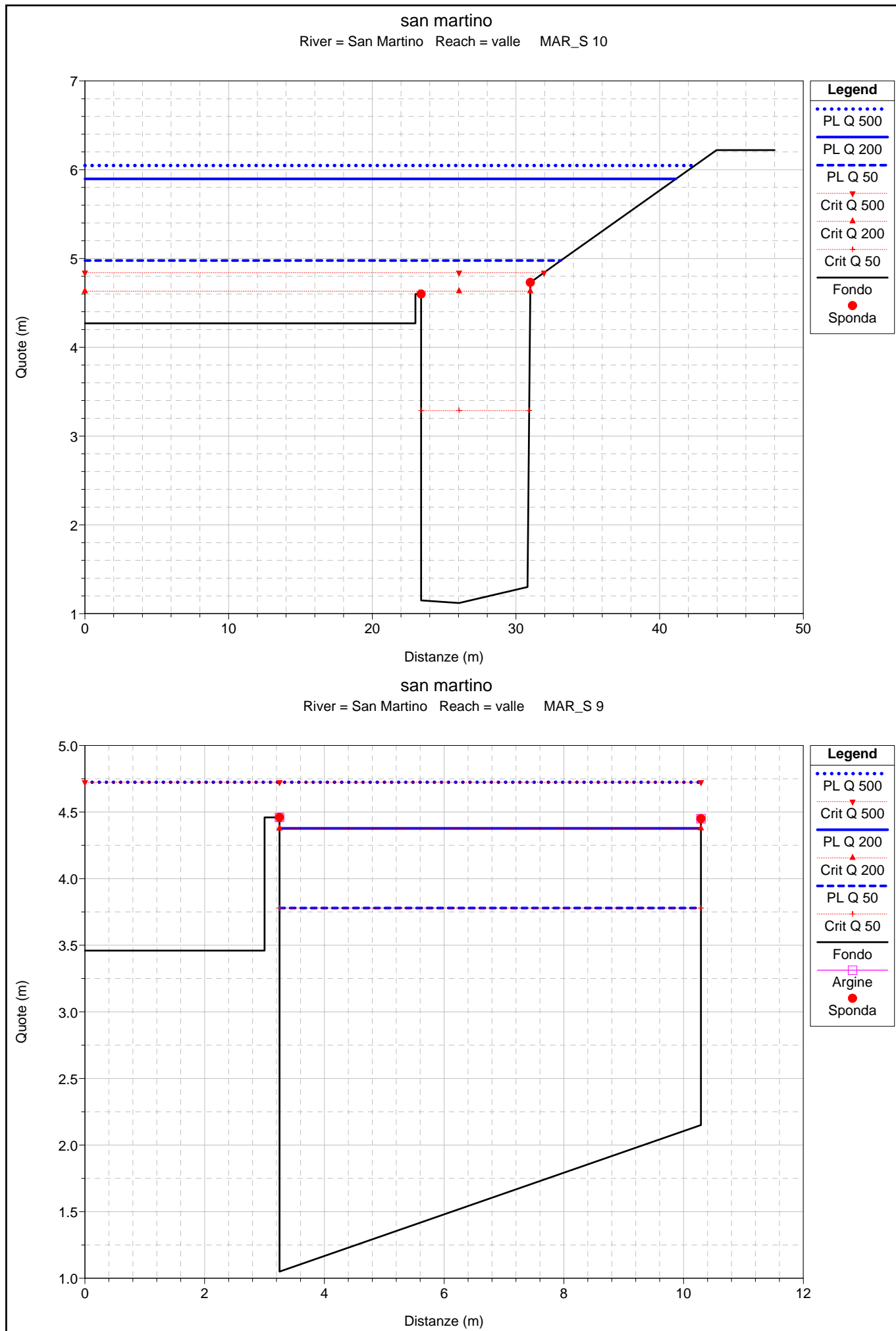


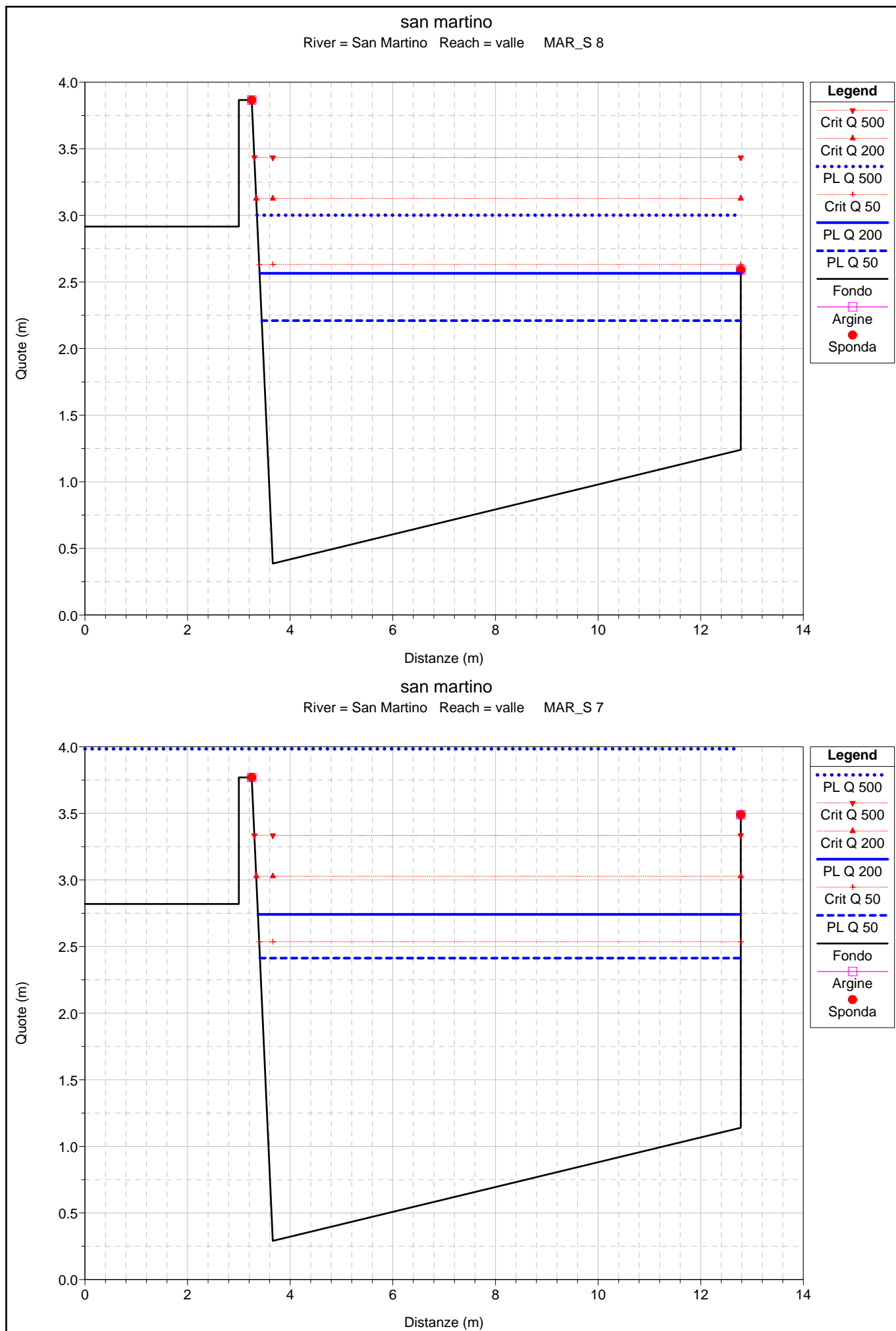


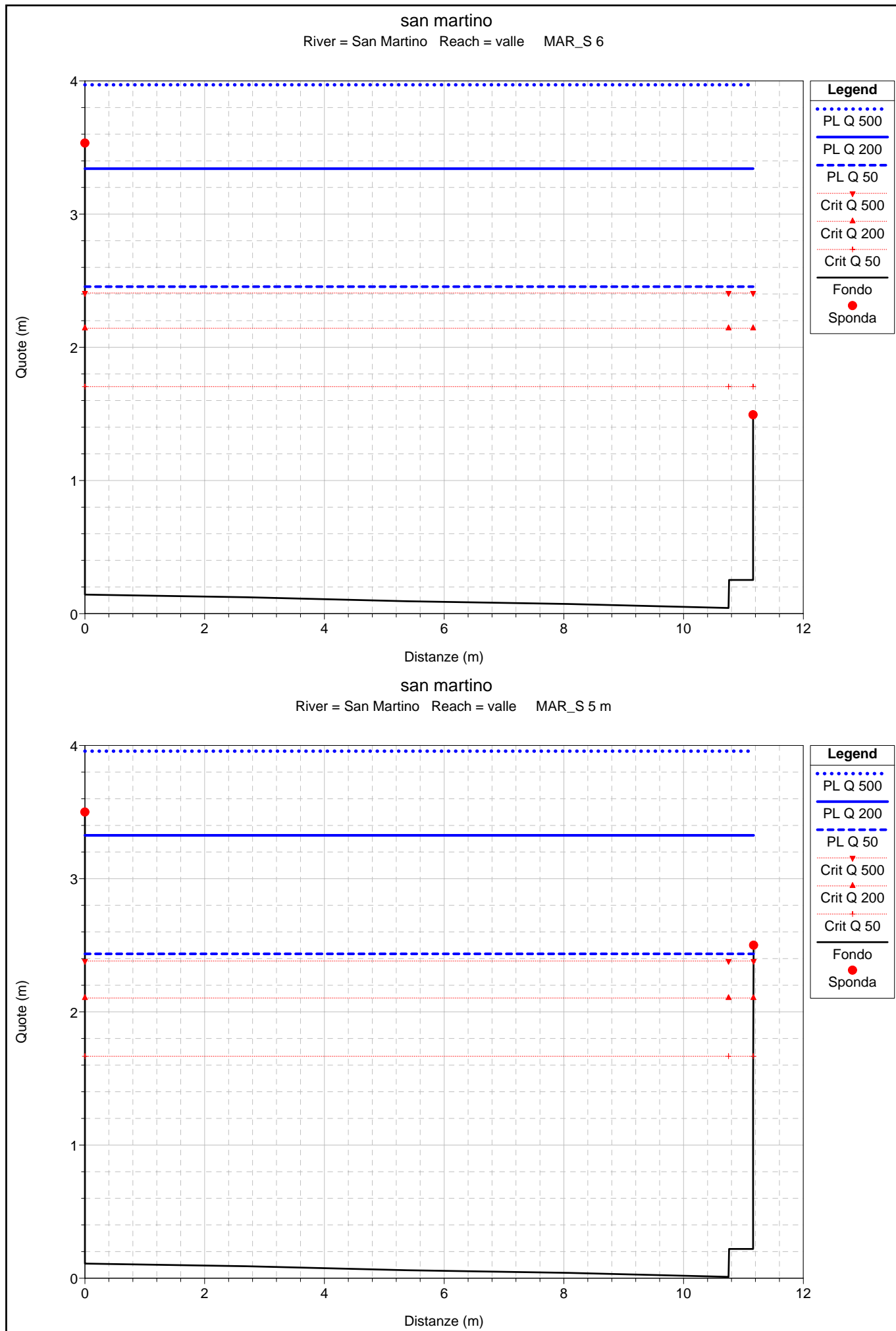


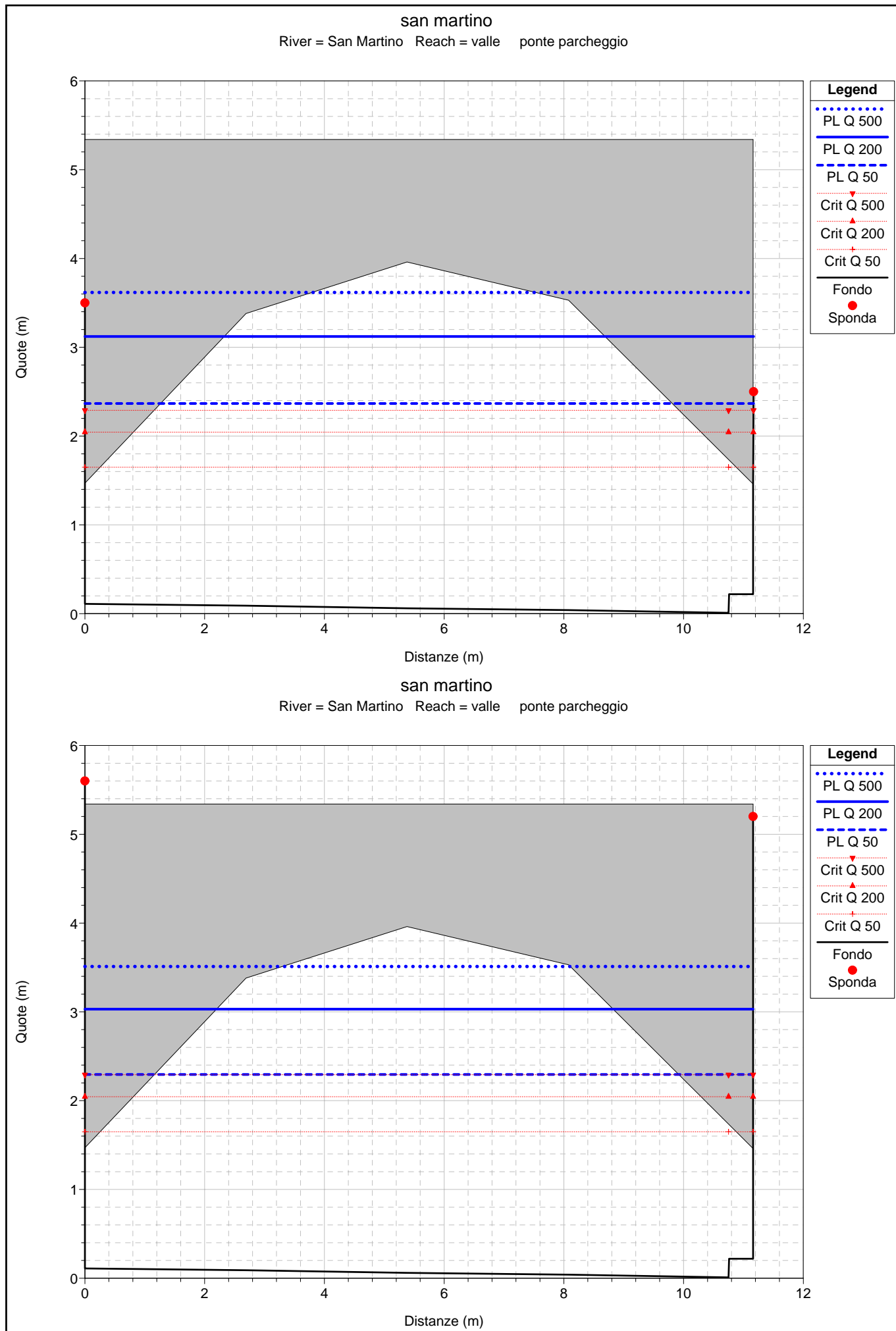


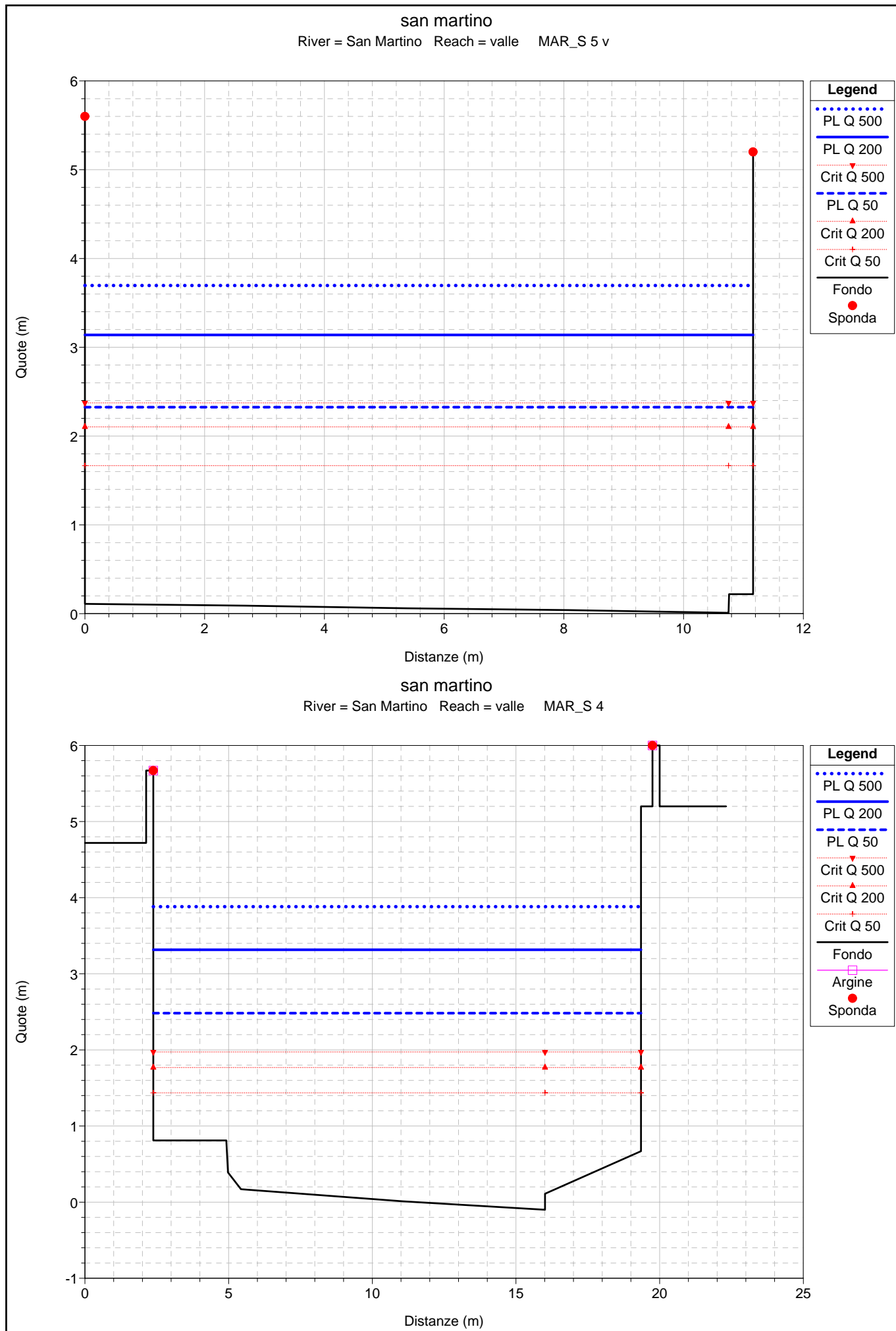


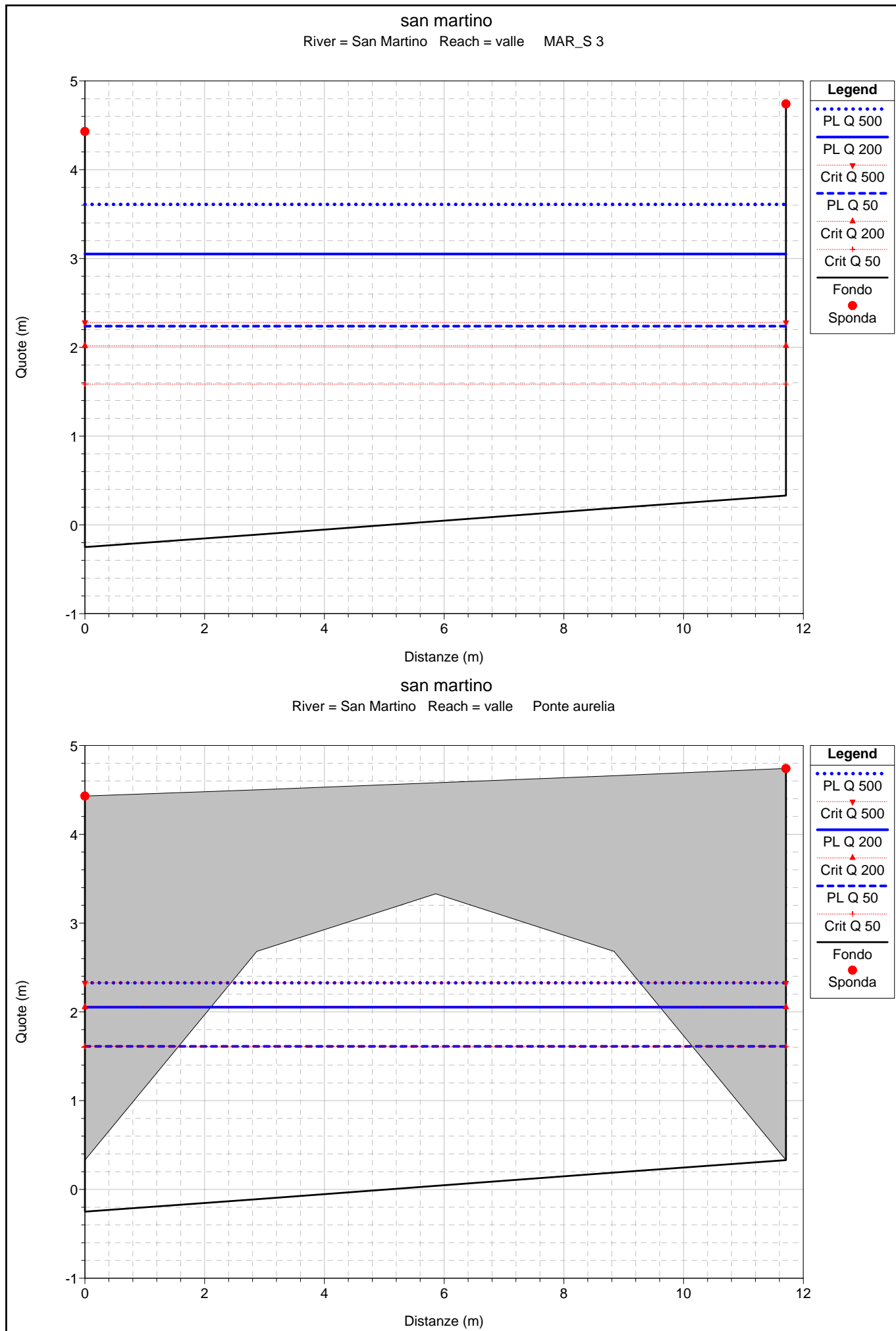


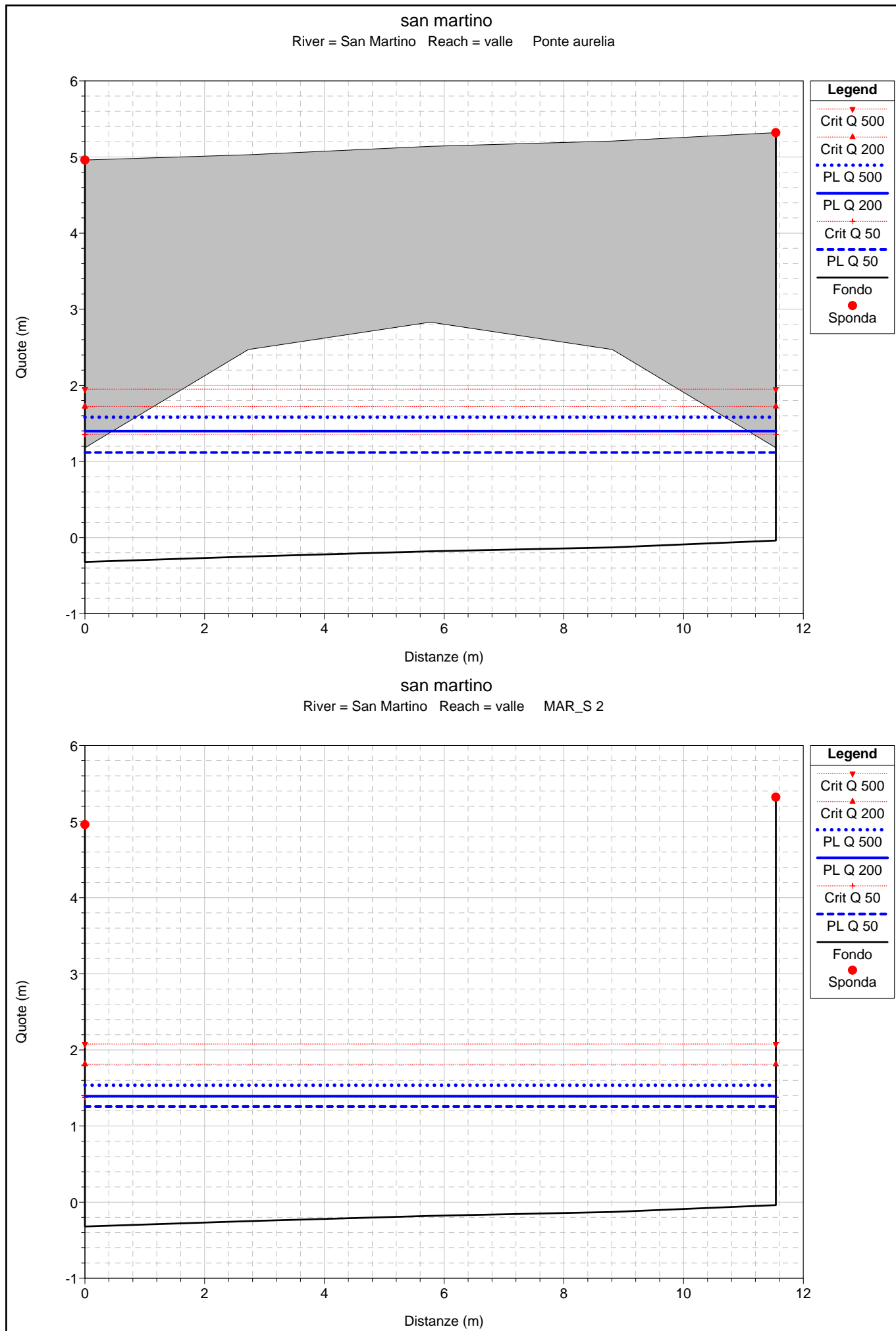




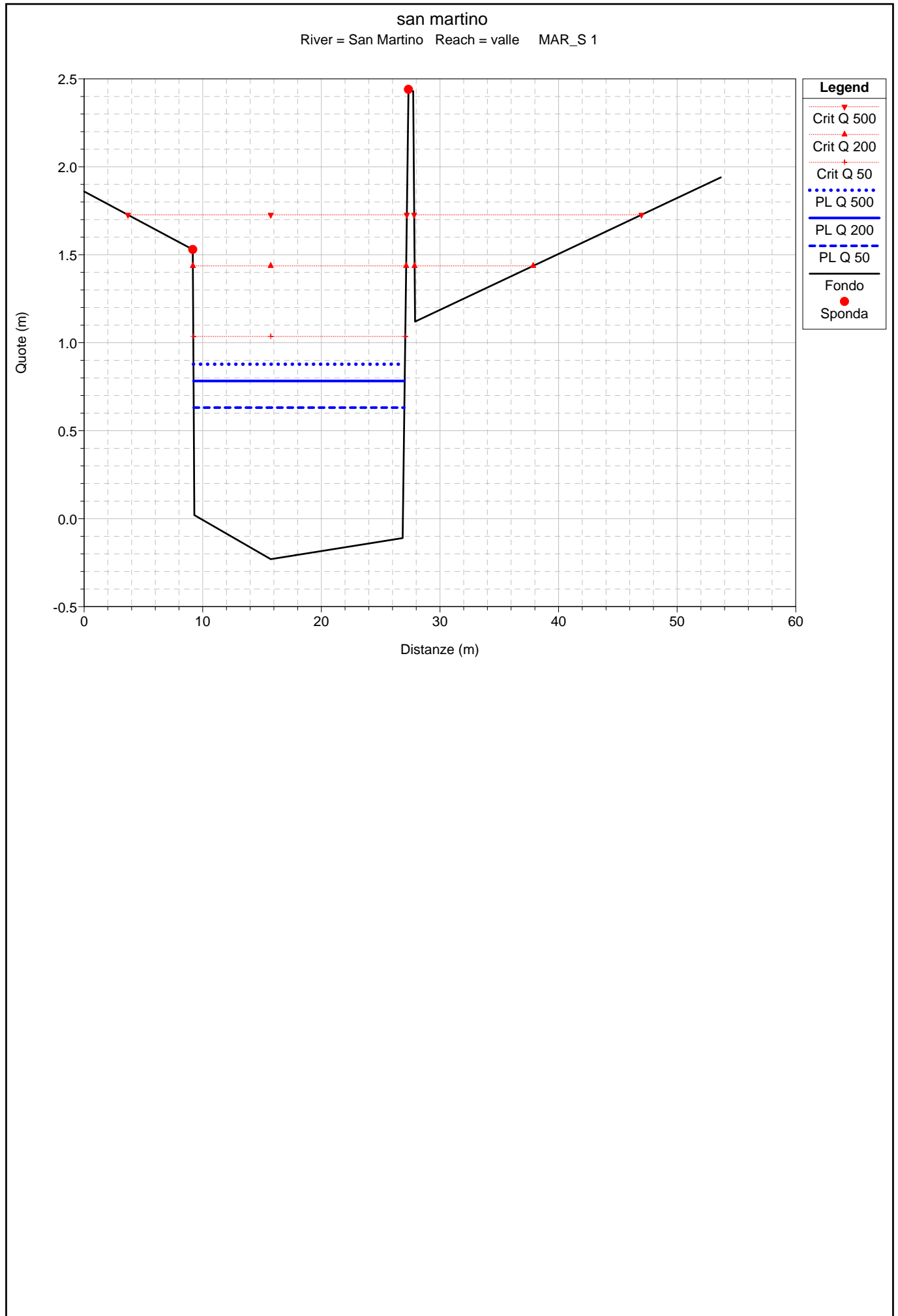


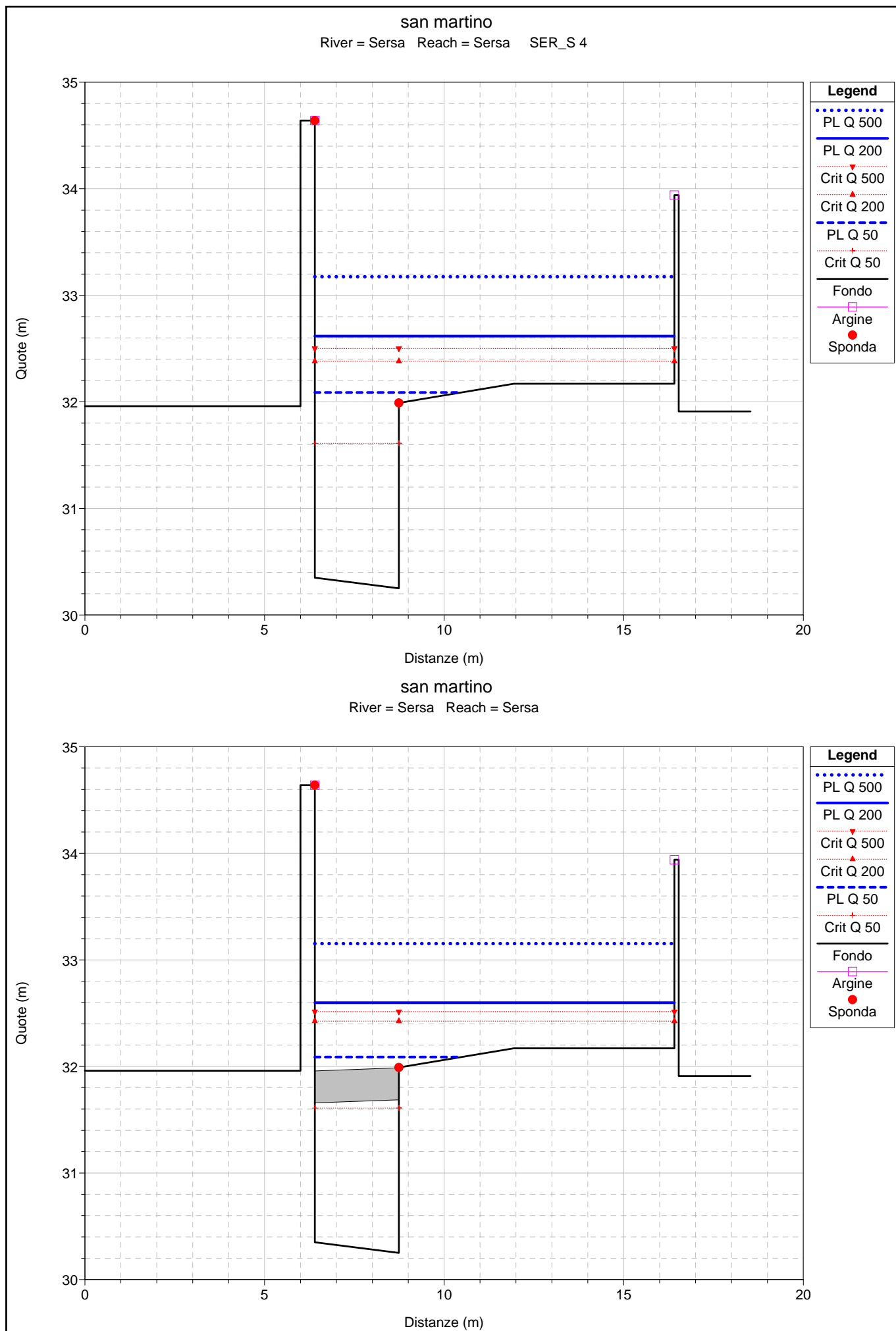


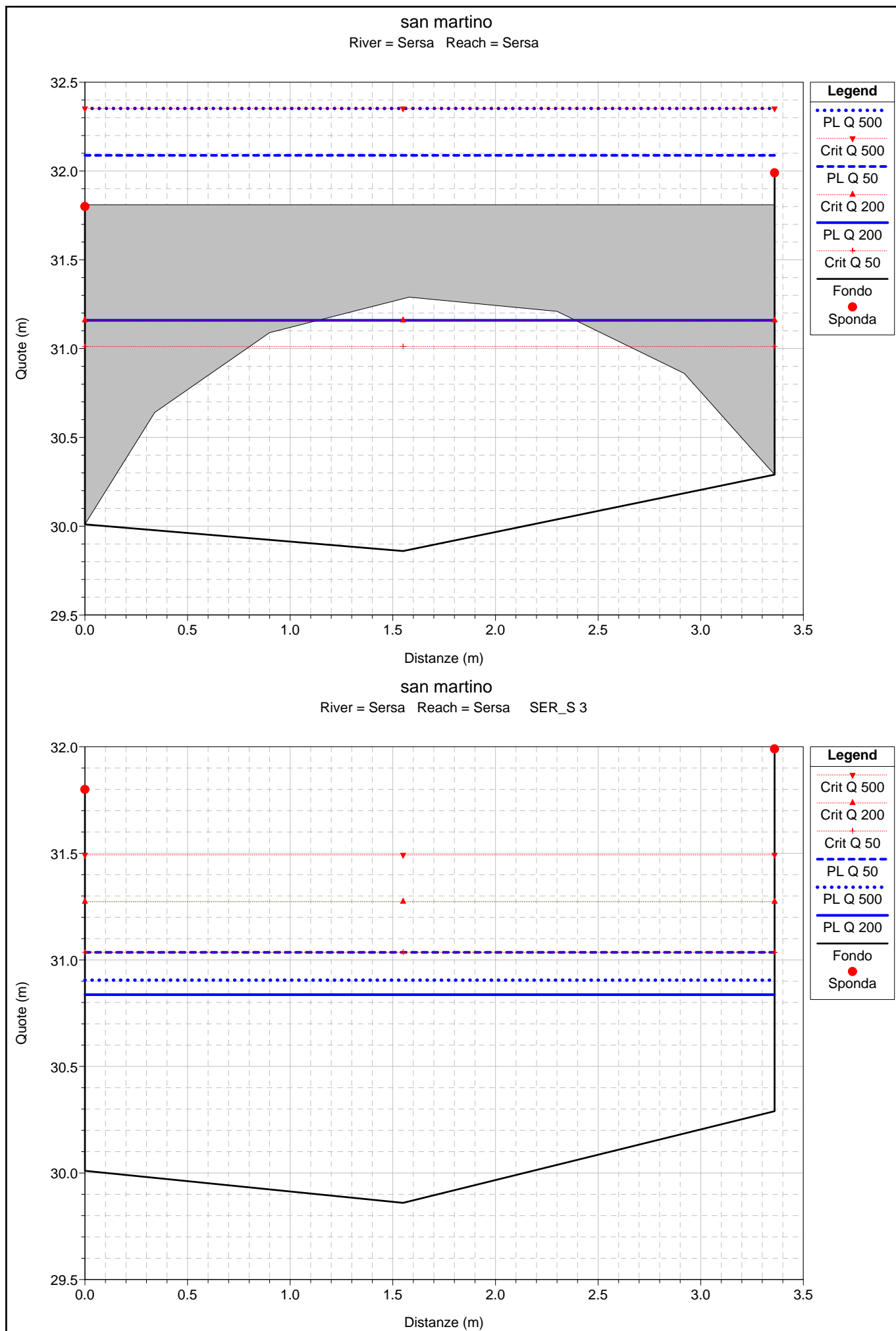


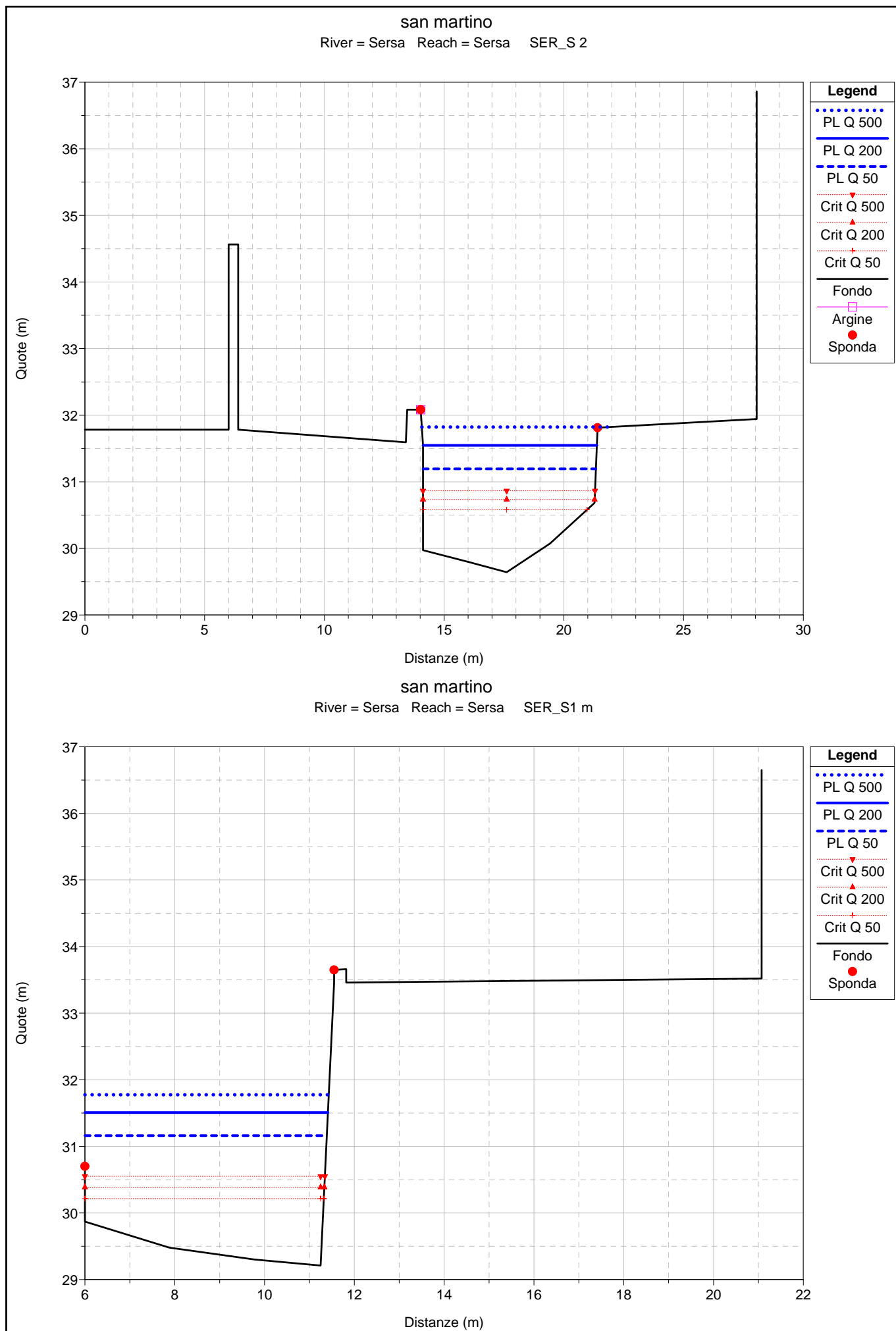


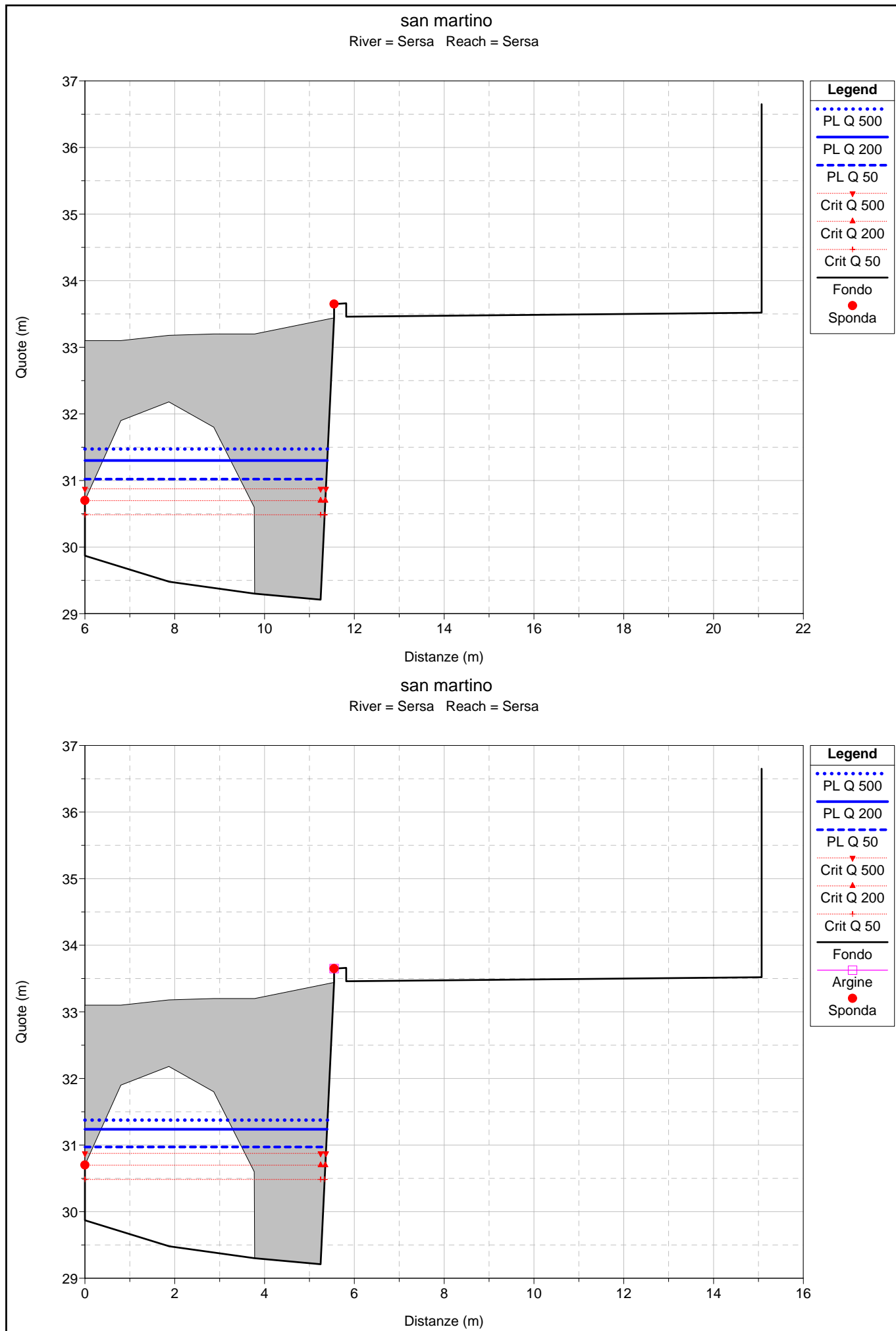


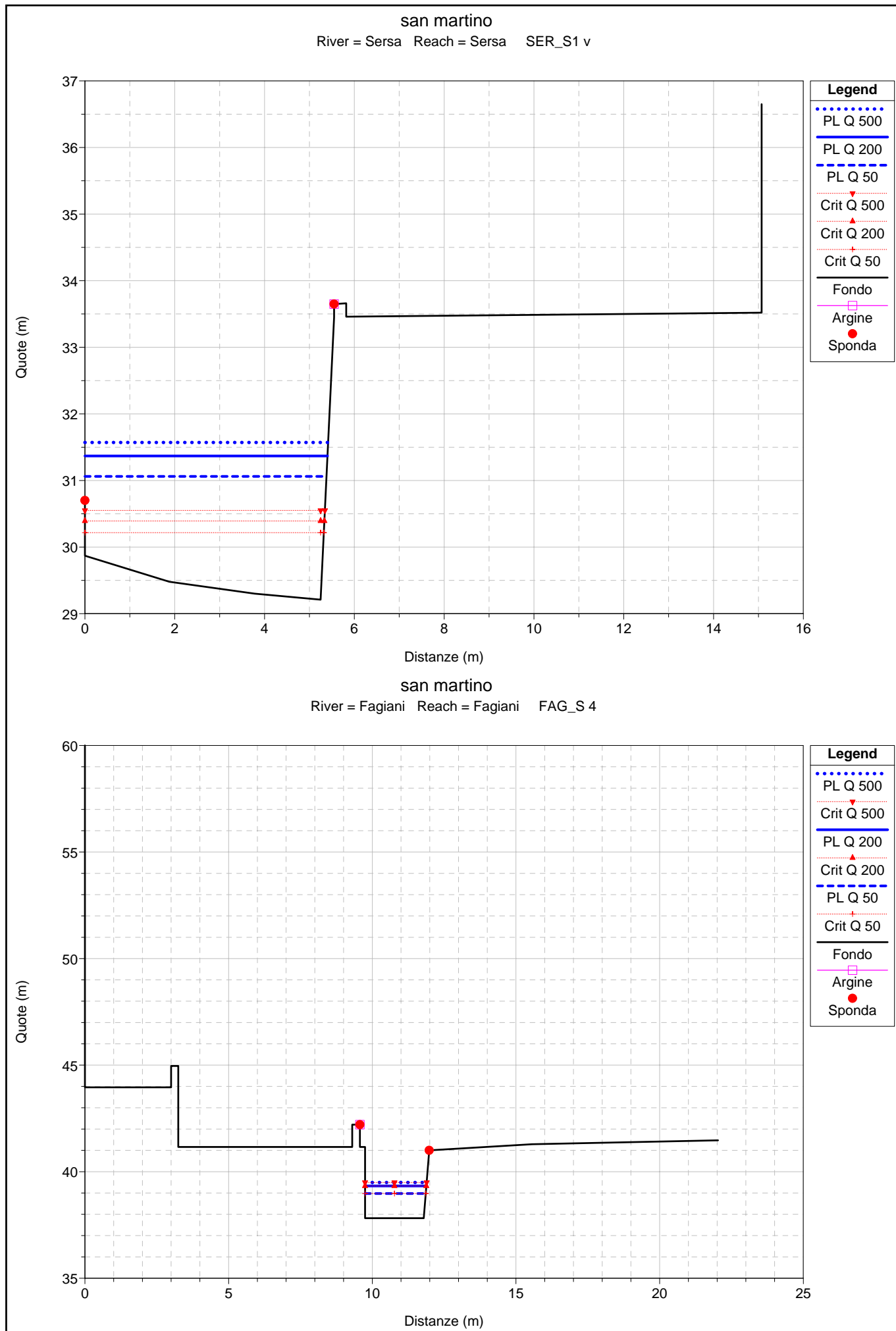


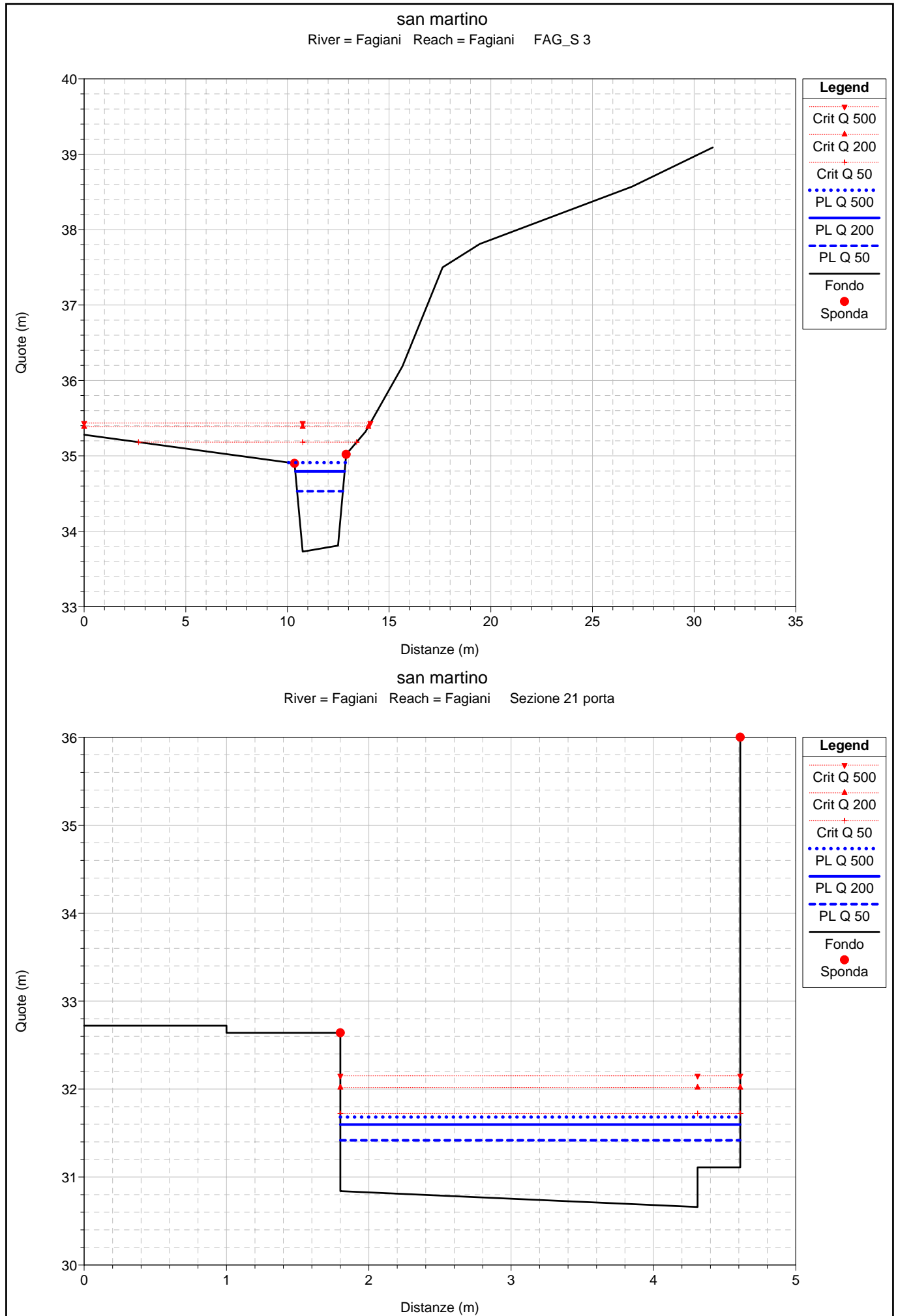


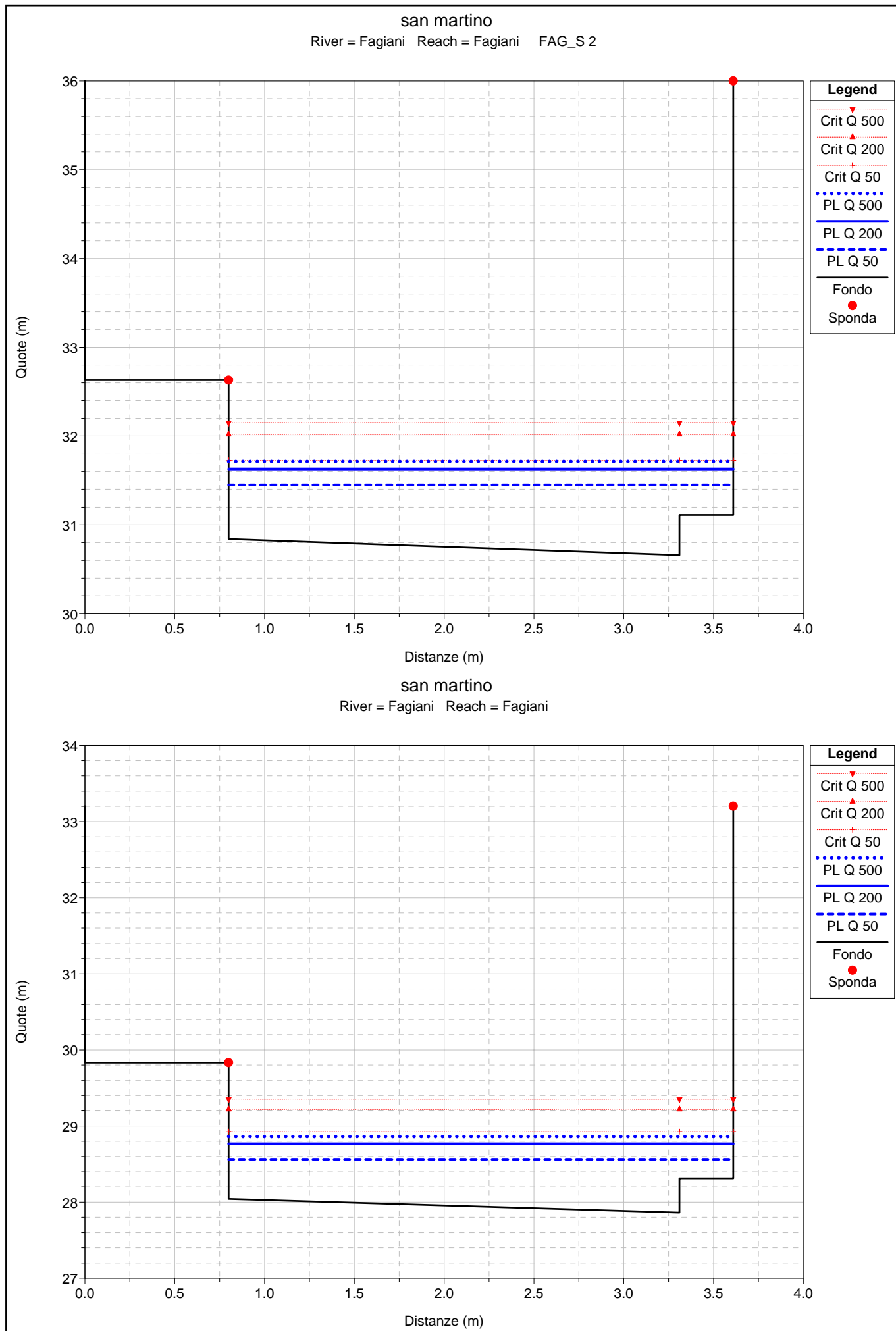




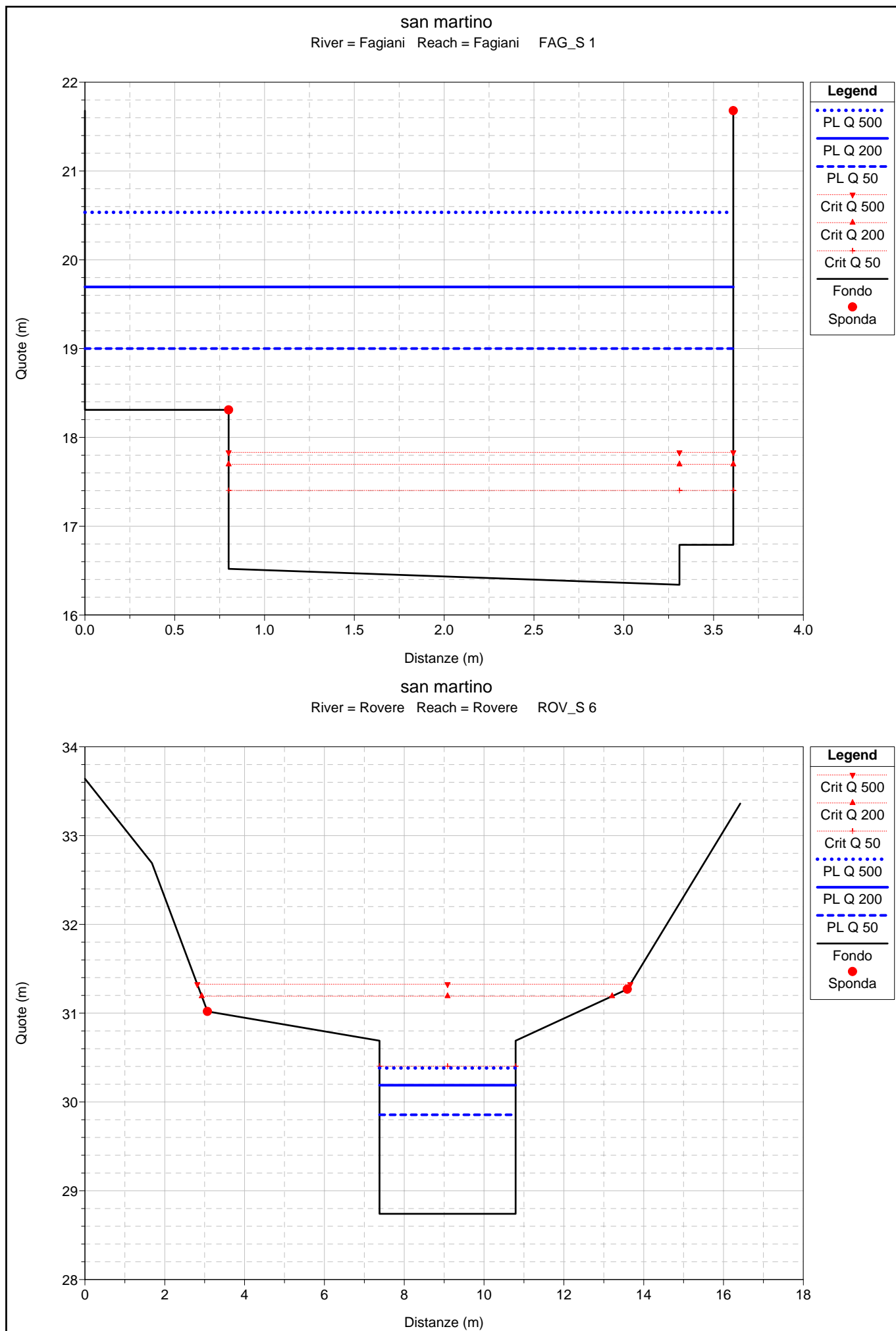


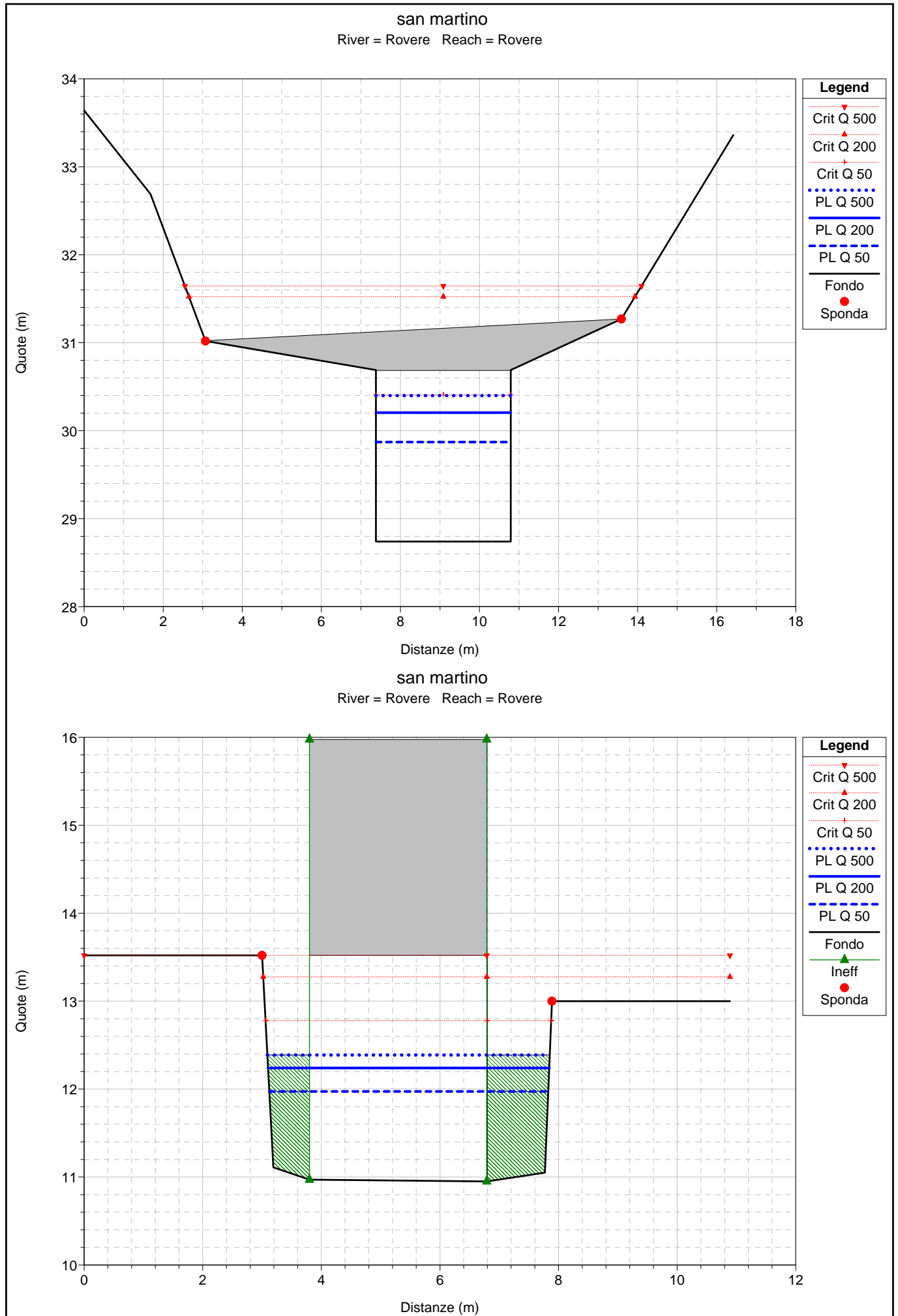


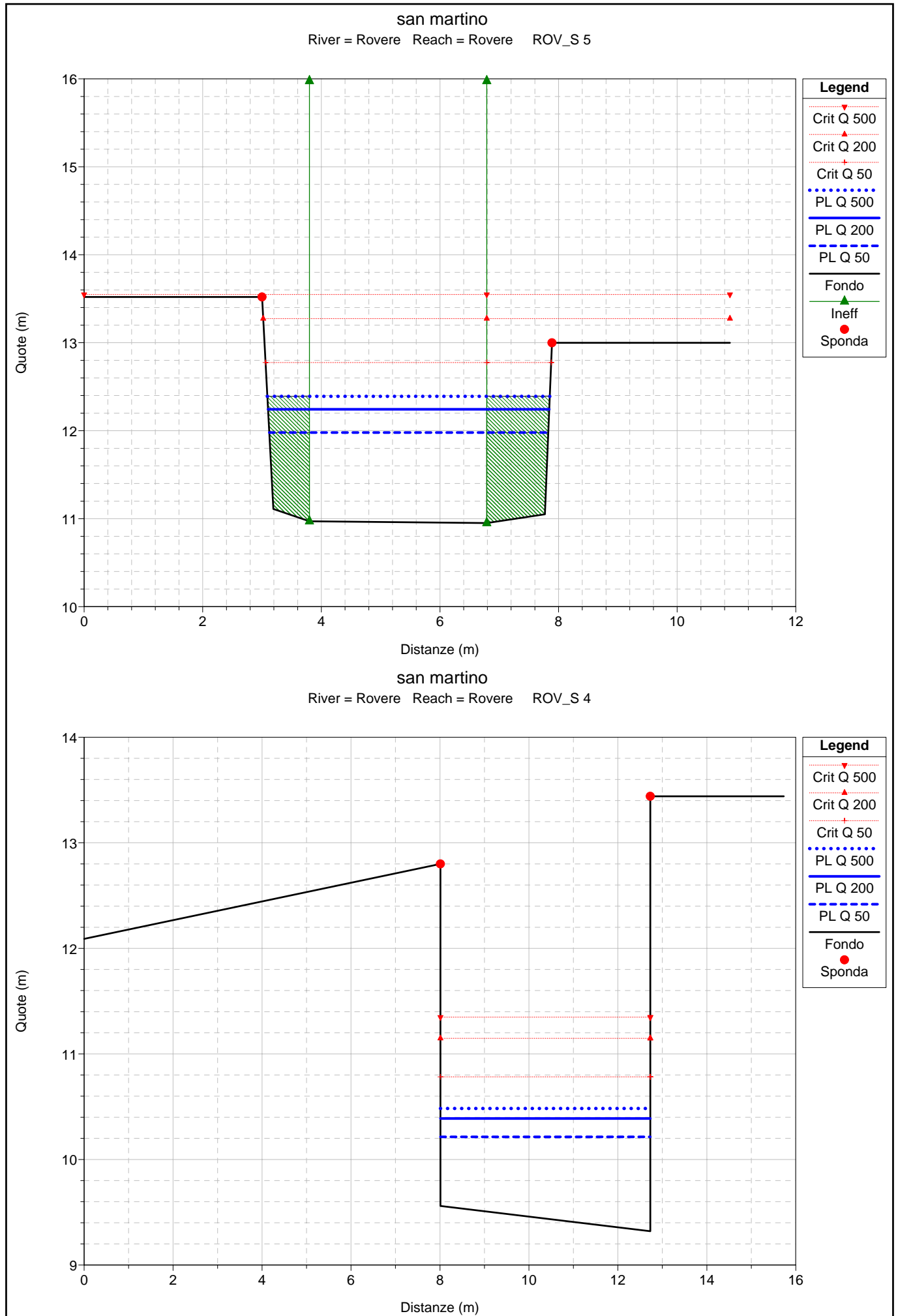


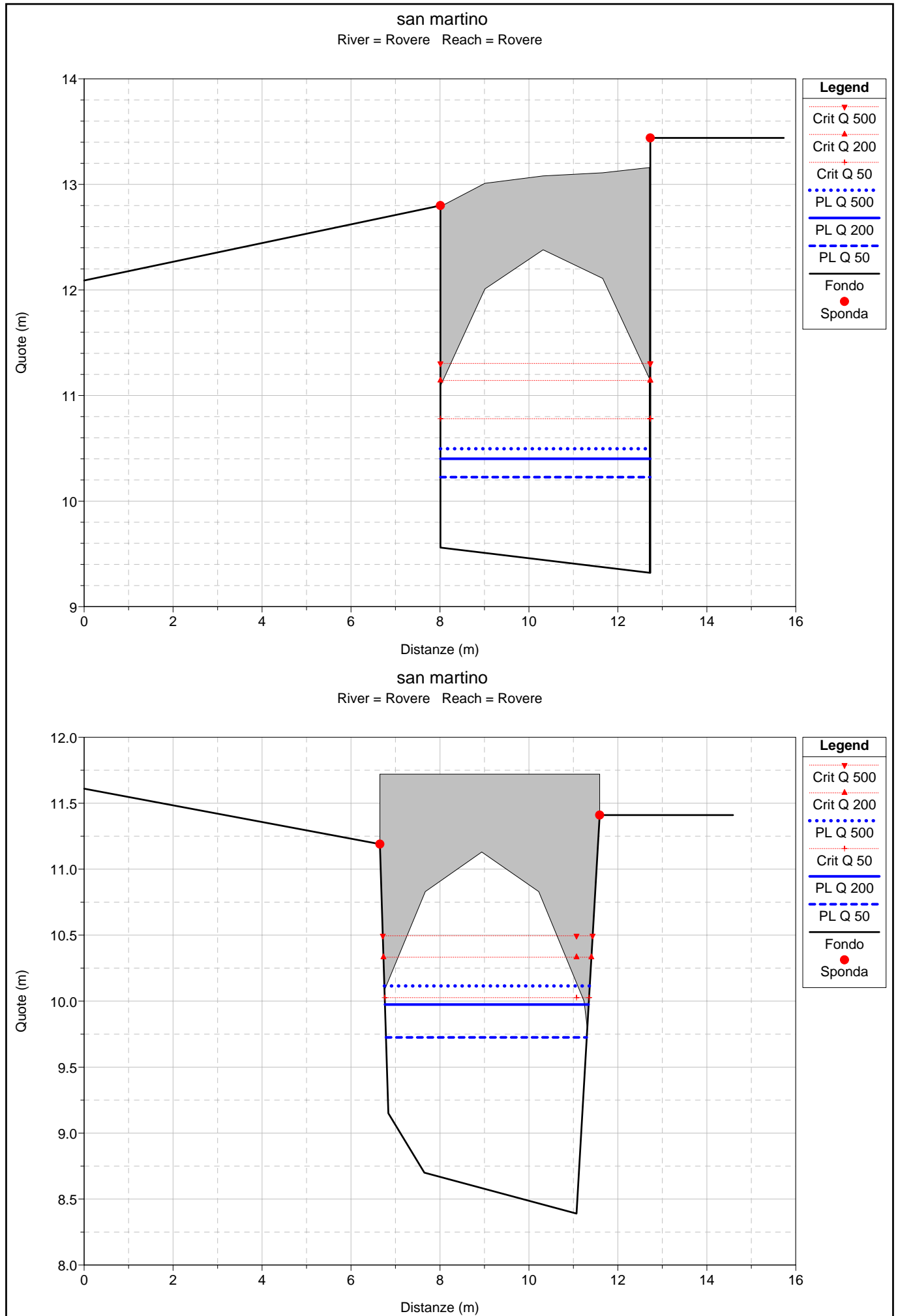


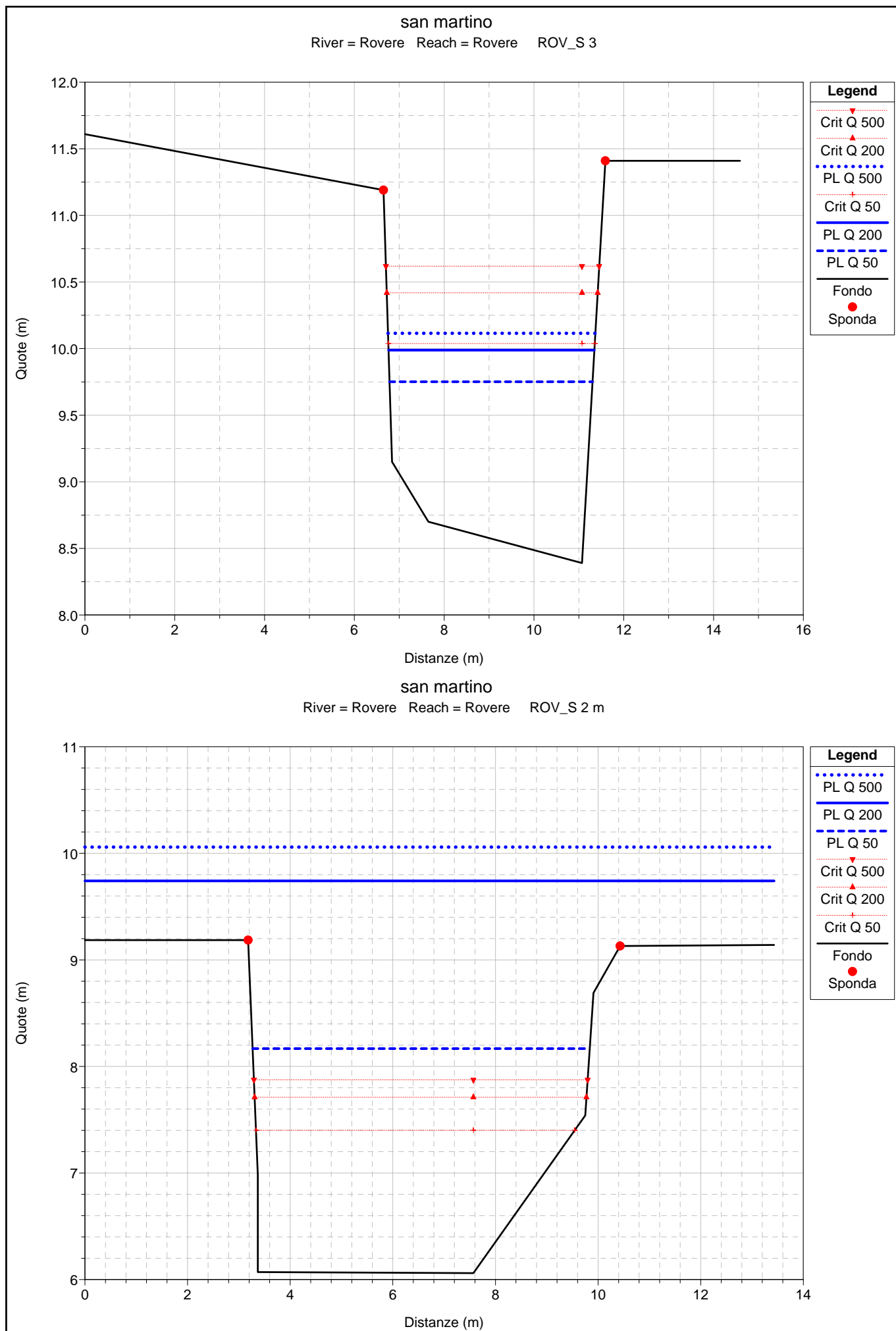


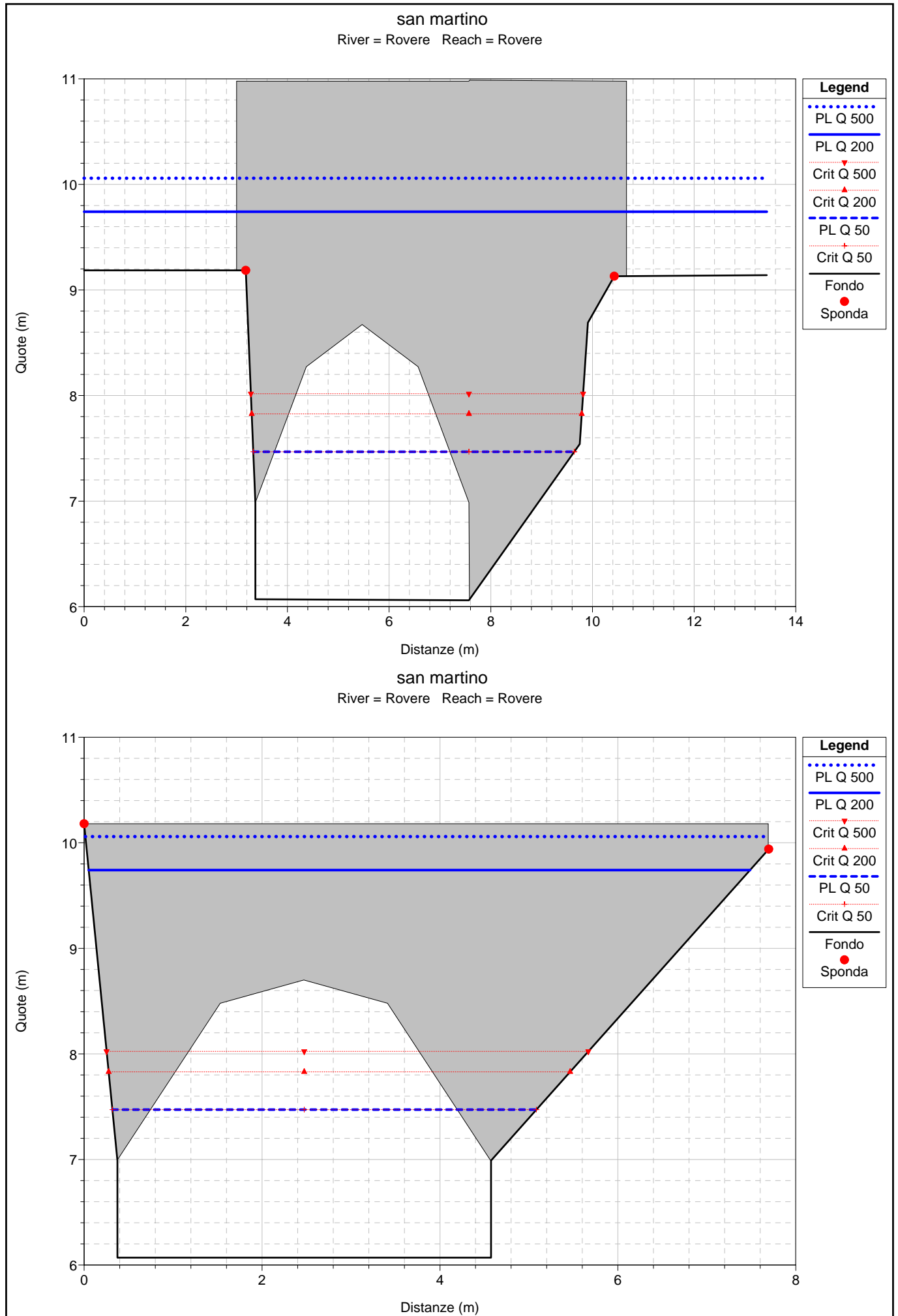


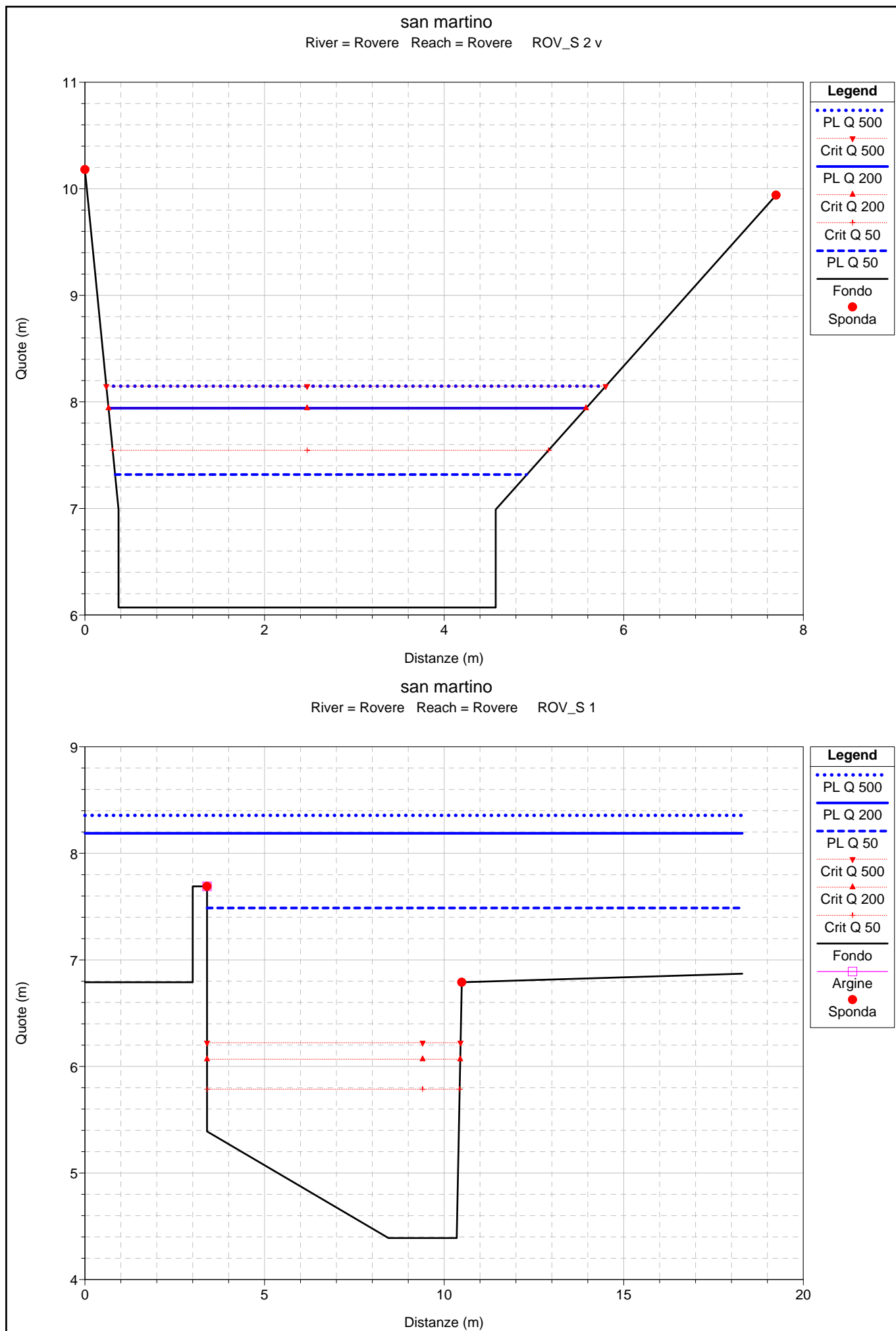












HEC-RAS Plan: San Martino

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	
			(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
monte	14.1	MAR_S 23	Q 50	18.00	30.25	31.10	34.71	3.61	35.22	4.12	32.01	36.27	0.052363	10.08	1.79	2.69	3.95
monte	14.1	MAR_S 23	Q 200	26.00	30.25	35.38	34.71	-0.67	35.22	-0.16	32.40	35.42	0.000152	1.08	30.34	27.66	0.16
monte	14.1	MAR_S 23	Q 500	31.00	30.25	35.99	34.71	-1.28	35.22	-0.77	32.62	36.01	0.000060	0.73	50.18	33.96	0.10
monte	14	MAR_S 22 m	Q 50	18.00	30.25	31.23	34.70	3.47	35.20	3.97	32.21	36.21	0.045519	9.89	1.82	2.57	3.75
monte	14	MAR_S 22 m	Q 200	26.00	30.25	35.20	34.70	-0.50	35.20	0.00	32.65	35.41	0.000683	2.02	12.88	2.80	0.30
monte	14	MAR_S 22 m	Q 500	31.00	30.25	35.76	34.70	-1.06	35.20	-0.56	32.91	35.99	0.000749	2.15	14.45	2.80	0.30
monte	13.8	tombino		Bridge													
monte	13.5	MAR_S 22 v	Q 50	18.00	28.81	29.91	33.30	3.39	33.70	3.79	30.77	33.58	0.137052	8.48	2.12	2.64	3.02
monte	13.5	MAR_S 22 v	Q 200	26.00	28.81	31.26	33.30	2.04	33.70	2.44	31.22	32.26	0.019938	4.43	5.88	2.80	0.98
monte	13.5	MAR_S 22 v	Q 500	31.00	28.81	31.47	33.30	1.83	33.70	2.23	31.47	32.64	0.022371	4.79	6.47	2.80	1.01
monte	13.4	MAR_S 21	Q 50	18.00	28.56	29.74	33.05	3.31	33.45	3.71	30.53	32.79	0.106779	7.74	2.33	2.68	2.65
monte	13.4	MAR_S 21	Q 200	26.00	28.56	31.37	33.05	1.68	33.45	2.08	30.97	32.10	0.013595	3.78	6.87	2.80	0.77
monte	13.4	MAR_S 21	Q 500	31.00	28.56	30.92	33.05	2.13	33.45	2.53	31.22	32.47	0.031760	5.52	5.61	2.80	1.25
valle sersa	13.1	MAR_S 20	Q 50	29.00	27.28	29.44	30.86	1.42	29.21	-0.23	29.04	29.75	0.004319	2.47	11.84	9.40	0.67
valle sersa	13.1	MAR_S 20	Q 200	41.00	27.28	29.81	30.86	1.05	29.21	-0.60	29.40	30.17	0.004233	2.69	15.76	11.97	0.68
valle sersa	13.1	MAR_S 20	Q 500	50.00	27.28	30.03	30.86	0.83	29.21	-0.82	29.64	30.43	0.004239	2.82	18.54	13.22	0.69
valle sersa	13	MAR_S 19	Q 50	29.00	27.28	29.04	30.86	1.82	29.95	0.91	29.04	29.63	0.010465	3.40	8.54	7.36	1.01
valle sersa	13	MAR_S 19	Q 200	41.00	27.28	29.43	30.86	1.43	29.95	0.52	29.43	30.06	0.009890	3.51	11.67	9.28	1.00
valle sersa	13	MAR_S 19	Q 500	50.00	27.28	29.66	30.86	1.20	29.95	0.29	29.66	30.31	0.009617	3.56	14.04	10.87	1.00
valle sersa	12.1	MAR_S 18	Q 50	29.00	16.34	16.81	17.86	1.05	18.34	1.53	17.99	27.71	0.680998	14.63	1.98	4.44	6.99
valle sersa	12.1	MAR_S 18	Q 200	41.00	16.34	16.98	17.86	0.88	18.34	1.36	18.34	28.17	0.497270	14.82	2.77	4.61	6.10
valle sersa	12.1	MAR_S 18	Q 500	50.00	16.34	20.57	17.86	-2.71	18.34	-2.23	18.34	20.60	0.000199	0.79	70.56	26.77	0.19
valle fagiani	12	MAR_S 17	Q 50	48.00	16.34	18.39	17.86	-0.53	18.34	-0.05	18.39	19.06	0.011777	3.87	14.18	10.88	0.91
valle fagiani	12	MAR_S 17	Q 200	69.00	16.34	18.39	17.86	-0.53	18.34	-0.05	18.39	19.77	0.024335	5.56	14.18	10.88	1.30
valle fagiani	12	MAR_S 17	Q 500	84.00	16.34	20.37	17.86	-2.51	18.34	-2.03	18.39	20.60	0.001719	2.40	43.15	17.15	0.39
valle fagiani	11.1	MAR_S 16	Q 50	48.00	12.16	16.01	18.59	2.58	19.76	3.75	13.98	16.11	0.000674	1.38	34.75	13.17	0.27
valle fagiani	11.1	MAR_S 16	Q 200	69.00	12.16	16.67	18.59	1.92	19.76	3.09	14.40	16.80	0.000727	1.58	43.60	13.71	0.28
valle fagiani	11.1	MAR_S 16	Q 500	84.00	12.16	20.49	18.59	-1.90	19.76	-0.73	14.67	20.52	0.000079	0.74	115.90	22.25	0.10
valle fagiani	11	MAR_S 15 m	Q 50	48.00	12.16	15.56	18.59	3.03	18.59	3.03	15.21	16.07	0.004157	3.14	15.27	8.25	0.74
valle fagiani	11	MAR_S 15 m	Q 200	69.00	12.16	16.15	18.59	2.44	18.59	2.44	15.63	16.75	0.003814	3.43	20.14	8.25	0.70
valle fagiani	11	MAR_S 15 m	Q 500	84.00	12.16	20.39	18.59	-1.80	18.59	-1.80	15.89	20.51	0.000358	1.52	55.16	8.26	0.19
valle fagiani	10.9	ponte ferroviari		Bridge													
valle fagiani	10.8	MAR_S 15 v	Q 50	48.00	12.16	15.22	18.59	3.38	18.59	3.38	15.22	15.98	0.007775	3.87	12.41	8.26	1.01
valle fagiani	10.8	MAR_S 15 v	Q 200	69.00	12.16	15.69	18.59	2.90	18.59	2.90	15.63	16.60	0.007110	4.24	16.29	8.26	0.96
valle fagiani	10.8	MAR_S 15 v	Q 500	84.00	12.16	20.10	18.59	-1.51	18.59	-1.51	15.89	20.23	0.000401	1.59	52.79	8.26	0.20
valle fagiani	10	MAR_S 14	Q 50	48.00	10.78	12.94	18.58	5.64	18.58	5.64	13.68	15.57	0.046490	7.18	6.68	3.09	1.56
valle fagiani	10	MAR_S 14	Q 200	69.00	10.78	14.82	18.58	3.76	18.58	3.76	14.47	16.38	0.020639	5.53	12.49	3.09	0.88
valle fagiani	10	MAR_S 14	Q 500	84.00	10.78	19.96	18.58	-1.38	18.58	-1.38	15.00	20.21	0.002112	2.29	39.03	10.08	0.29
valle fagiani	9.5	copertura		Bridge													



HEC-RAS Plan: San Martino (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	LOB Elev (m)	L. Freeboard (m)	ROB Elev (m)	R. Freeboard (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
valle fagiani	9.1 MAR_S 13	Q 50	48.00	3.45	7.39	7.75	0.36	8.85	1.46	5.81	7.80	0.004706	2.85	16.86	4.31	0.46
valle fagiani	9.1 MAR_S 13	Q 200	69.00	3.45	7.89	7.75	-0.14	8.85	0.96	6.45	8.55	0.007055	3.61	19.37	5.56	0.55
valle fagiani	9.1 MAR_S 13	Q 500	84.00	3.45	7.87	7.75	-0.12	8.85	0.98	6.86	8.86	0.010606	4.42	19.26	5.56	0.67
valle fagiani	9 MAR_S 12	Q 50	48.00	3.45	7.45	8.38	0.93	9.32	1.87	5.81	7.78	0.004016	2.52	19.06	6.70	0.48
valle fagiani	9 MAR_S 12	Q 200	69.00	3.45	8.04	8.38	0.34	9.32	1.28	6.45	8.49	0.005150	2.97	23.23	7.94	0.55
valle fagiani	9 MAR_S 12	Q 500	84.00	3.45	8.12	8.38	0.26	9.32	1.20	7.13	8.75	0.007038	3.51	23.90	7.96	0.65
valle fagiani	8 MAR_S 11	Q 50	48.00	4.06	7.49	7.06	-0.43	8.86	1.37	6.17	7.68	0.002041	2.05	26.70	18.61	0.39
valle fagiani	8 MAR_S 11	Q 200	69.00	4.06	8.19	7.06	-1.13	8.86	0.67	6.77	8.35	0.001450	1.94	39.79	18.71	0.33
valle fagiani	8 MAR_S 11	Q 500	84.00	4.06	8.36	7.06	-1.30	8.86	0.50	7.42	8.56	0.001727	2.16	42.94	18.74	0.37
valle	7.1 MAR_S 10 BIS	Q 50	71.00	1.60	5.05	5.68	0.63	7.85	2.80	3.71	5.32	0.002088	2.35	34.57	32.06	0.42
valle	7.1 MAR_S 10 BIS	Q 200	102.00	1.60	5.93	5.68	-0.25	7.85	1.92	4.21	6.09	0.001175	1.95	62.92	32.50	0.31
valle	7.1 MAR_S 10 BIS	Q 500	123.00	1.60	6.09	5.68	-0.41	7.85	1.76	4.53	6.28	0.001378	2.15	68.06	32.51	0.33
valle	7 MAR_S 10	Q 50	71.00	1.12	4.98	4.60	-0.38	4.73	-0.25	3.29	5.14	0.001362	1.95	45.14	33.12	0.32
valle	7 MAR_S 10	Q 200	102.00	1.12	5.90	4.60	-1.30	4.73	-1.17	4.63	5.99	0.000665	1.58	79.27	41.14	0.23
valle	7 MAR_S 10	Q 500	123.00	1.12	6.05	4.60	-1.45	4.73	-1.32	4.84	6.17	0.000788	1.75	85.58	42.45	0.25
valle	6 MAR_S 9	Q 50	71.00	1.05	3.78	4.46	0.68	4.45	0.67	3.78	4.87	0.013096	4.63	15.34	7.04	1.00
valle	6 MAR_S 9	Q 200	102.00	1.05	4.38	4.46	0.08	4.45	0.07	4.38	5.76	0.013750	5.22	19.55	7.04	1.00
valle	6 MAR_S 9	Q 500	123.00	1.05	4.72	4.46	-0.26	4.45	-0.27	4.72	5.94	0.014249	5.04	25.85	10.29	0.91
valle	5.1 MAR_S 8	Q 50	71.00	0.39	2.21	3.87	1.66	2.59	0.38	2.63	3.74	0.024410	5.49	12.94	9.34	1.49
valle	5.1 MAR_S 8	Q 200	102.00	0.39	2.57	3.87	1.30	2.59	0.02	3.13	4.57	0.025412	6.27	16.26	9.38	1.52
valle	5.1 MAR_S 8	Q 500	123.00	0.39	3.00	3.87	0.86	2.59	-0.41	3.43	4.86	0.019077	6.04	20.37	9.43	1.31
valle	5 MAR_S 7	Q 50	71.00	0.29	2.41	3.77	1.36	3.49	1.08	2.54	3.45	0.013532	4.51	15.75	9.37	1.11
valle	5 MAR_S 7	Q 200	102.00	0.29	2.74	3.77	1.03	3.49	0.75	3.03	4.24	0.016479	5.42	18.84	9.41	1.22
valle	5 MAR_S 7	Q 500	123.00	0.29	3.98	3.77	-0.21	3.49	-0.49	3.33	4.68	0.006284	3.79	34.16	12.78	0.67
valle	4.3 MAR_S 6	Q 50	71.00	0.04	2.46	3.53	1.08	1.49	-0.96	1.70	2.83	0.002332	2.70	26.27	11.16	0.56
valle	4.3 MAR_S 6	Q 200	102.00	0.04	3.34	3.53	0.19	1.49	-1.85	2.14	3.75	0.001911	2.82	36.16	11.16	0.50
valle	4.3 MAR_S 6	Q 500	123.00	0.04	3.97	3.53	-0.44	1.49	-2.48	2.41	4.38	0.001685	2.85	43.19	11.16	0.46
valle	4.2 MAR_S 5 m	Q 50	71.00	0.01	2.44	3.50	1.06	2.50	0.06	1.67	2.80	0.002294	2.69	26.42	11.17	0.56
valle	4.2 MAR_S 5 m	Q 200	102.00	0.01	3.33	3.50	0.17	2.50	-0.83	2.10	3.73	0.001880	2.80	36.36	11.17	0.50
valle	4.2 MAR_S 5 m	Q 500	123.00	0.01	3.96	3.50	-0.46	2.50	-1.46	2.38	4.37	0.001659	2.83	43.42	11.17	0.46
valle	4.1 ponte parcheggio	Bridge														
valle	4 MAR_S 5 v	Q 50	71.00	0.01	2.33	5.60	3.27	5.20	2.87	1.67	2.73	0.002639	2.82	25.19	11.16	0.60
valle	4 MAR_S 5 v	Q 200	102.00	0.01	3.14	5.60	2.46	5.20	2.06	2.10	3.59	0.002227	2.98	34.27	11.16	0.54
valle	4 MAR_S 5 v	Q 500	123.00	0.01	3.70	5.60	1.90	5.20	1.50	2.37	4.17	0.002019	3.04	40.49	11.16	0.51
valle	3.2 MAR_S 4	Q 50	71.00	-0.10	2.48	5.67	3.19	6.00	3.52	1.44	2.66	0.000970	1.85	38.32	16.97	0.39
valle	3.2 MAR_S 4	Q 200	102.00	-0.10	3.32	5.67	2.35	6.00	2.68	1.77	3.51	0.000777	1.94	52.47	16.97	0.35
valle	3.2 MAR_S 4	Q 500	123.00	-0.10	3.88	5.67	1.79	6.00	2.12	1.97	4.08	0.000689	1.98	62.07	16.97	0.33
valle	3 MAR_S 3	Q 50	71.00	-0.25	2.24	4.43	2.19	4.74	2.50	1.59	2.63	0.002547	2.76	25.74	11.71	0.59
valle	3 MAR_S 3	Q 200	102.00	-0.25	3.05	4.43	1.38	4.74	1.69	2.02	3.48	0.002095	2.89	35.26	11.71	0.53
valle	3 MAR_S 3	Q 500	123.00	-0.25	3.61	4.43	0.82	4.74	1.13	2.28	4.05	0.001873	2.94	41.80	11.71	0.50

HEC-RAS Plan: San Martino (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	
			(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
valle	2.5	Ponte aurelia	Bridge														
valle	2	MAR_S 2	Q 50	71.00	-0.32	1.26	4.96	3.70	5.32	4.06	1.38	2.18	0.009423	4.27	16.63	11.54	1.14
valle	2	MAR_S 2	Q 200	102.00	-0.32	1.39	4.96	3.57	5.32	3.93	1.81	2.99	0.014735	5.60	18.21	11.54	1.42
valle	2	MAR_S 2	Q 500	123.00	-0.32	1.54	4.96	3.42	5.32	3.78	2.08	3.49	0.016456	6.19	19.86	11.54	1.51
valle	1	MAR_S 1	Q 50	71.00	-0.23	0.63	1.53	0.90	2.44	1.81	1.04	1.99	0.025683	5.17	13.73	17.76	1.88
valle	1	MAR_S 1	Q 200	102.00	-0.23	0.78	1.53	0.75	2.44	1.66	1.44	2.75	0.029817	6.21	16.42	17.80	2.07
valle	1	MAR_S 1	Q 500	123.00	-0.23	0.88	1.53	0.65	2.44	1.56	1.73	3.23	0.031648	6.79	18.11	17.83	2.15

HEC-RAS Plan: San Martino

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	LOB Elev (m)	L. Freeboard (m)	ROB Elev (m)	R. Freeboard (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Sersa	Sersa	26 SER_S 4	Q 50	11.00	30.25	32.09	34.64	2.55	31.99	-0.10	31.61	32.44	0.008353	2.62	4.27	4.08	0.63
Sersa	Sersa	26 SER_S 4	Q 200	15.00	30.25	32.62	34.64	2.02	31.99	-0.63	32.38	32.77	0.003506	1.90	9.14	10.01	0.40
Sersa	Sersa	26 SER_S 4	Q 500	19.00	30.25	33.17	34.64	1.47	31.99	-1.18	32.50	33.26	0.001408	1.32	14.72	10.01	0.25
Sersa	Sersa	25.5		Bridge													
Sersa	Sersa	25.1 SER_S 3	Q 50	11.00	29.86	31.04	31.80	0.76	31.99	0.95	31.04	31.56	0.013806	3.19	3.44	3.36	1.01
Sersa	Sersa	25.1 SER_S 3	Q 200	15.00	29.86	30.84	31.80	0.96	31.99	1.15	31.27	32.32	0.047357	5.40	2.78	3.36	1.90
Sersa	Sersa	25.1 SER_S 3	Q 500	19.00	29.86	30.90	31.80	0.90	31.99	1.09	31.49	32.94	0.060594	6.32	3.01	3.36	2.13
Sersa	Sersa	25 SER_S 2	Q 50	11.00	29.64	31.19	32.08	0.89	31.81	0.62	30.58	31.27	0.001281	1.25	8.79	7.22	0.36
Sersa	Sersa	25 SER_S 2	Q 200	15.00	29.64	31.55	32.08	0.54	31.81	0.27	30.73	31.64	0.001124	1.32	11.34	7.26	0.34
Sersa	Sersa	25 SER_S 2	Q 500	19.00	29.64	31.82	32.08	0.26	31.81	-0.01	30.86	31.93	0.001128	1.42	13.35	7.79	0.34
Sersa	Sersa	24.2 SER_S1 m	Q 50	11.00	29.21	31.16	30.70	-0.46	33.65	2.49	30.22	31.24	0.001055	1.21	9.10	5.39	0.30
Sersa	Sersa	24.2 SER_S1 m	Q 200	15.00	29.21	31.51	30.70	-0.81	33.65	2.14	30.39	31.60	0.001167	1.37	10.97	5.41	0.31
Sersa	Sersa	24.2 SER_S1 m	Q 500	19.00	29.21	31.78	30.70	-1.08	33.65	1.87	30.55	31.89	0.001334	1.53	12.42	5.43	0.32
Sersa	Sersa	24.1		Bridge													
Sersa	Sersa	24 SER_S1 v	Q 50	11.00	29.21	31.06	30.70	-0.36	33.65	2.59	30.22	31.15	0.001253	1.29	8.56	5.38	0.33
Sersa	Sersa	24 SER_S1 v	Q 200	15.00	29.21	31.37	30.70	-0.67	33.65	2.28	30.39	31.48	0.001423	1.47	10.21	5.40	0.34
Sersa	Sersa	24 SER_S1 v	Q 500	19.00	29.21	31.57	30.70	-0.87	33.65	2.08	30.55	31.71	0.001723	1.68	11.31	5.42	0.37
Rovere	Rovere	20.9 Sezione fittizia	Q 50	23.00	36.47	38.13	38.75	0.62	39.00	0.87	38.13	38.97	0.012952	4.06	5.67	3.41	1.00
Rovere	Rovere	20.9 Sezione fittizia	Q 200	33.00	36.47	38.92	38.75	-0.17	39.00	0.08	38.92	39.43	0.009399	3.17	10.43	10.28	1.00
Rovere	Rovere	20.9 Sezione fittizia	Q 500	39.00	36.47	39.05	38.75	-0.30	39.00	-0.05	39.05	39.61	0.009182	3.33	11.75	10.83	1.01
Rovere	Rovere	20 ROV_S 6	Q 50	23.00	28.74	29.86	31.02	1.16	31.27	1.41	30.40	31.72	0.038576	6.04	3.81	3.41	1.83
Rovere	Rovere	20 ROV_S 6	Q 200	33.00	28.74	30.19	31.02	0.83	31.27	1.08	31.19	32.46	0.038622	6.68	4.94	3.41	1.77
Rovere	Rovere	20 ROV_S 6	Q 500	39.00	28.74	30.38	31.02	0.64	31.27	0.89	31.33	32.85	0.038479	6.97	5.60	3.41	1.74
Rovere	Rovere	19.5		Bridge													
Rovere	Rovere	19 ROV_S 5	Q 50	23.00	10.95	11.98	13.52	1.54	13.00	1.02	12.77	14.88	0.034764	7.55	3.05	4.71	2.39
Rovere	Rovere	19 ROV_S 5	Q 200	33.00	10.95	12.24	13.52	1.28	13.00	0.76	13.28	16.01	0.033087	8.60	3.84	4.74	2.42
Rovere	Rovere	19 ROV_S 5	Q 500	39.00	10.95	12.39	13.52	1.13	13.00	0.61	13.55	16.62	0.032206	9.12	4.28	4.76	2.43
Rovere	Rovere	18 ROV_S 4	Q 50	23.00	9.32	10.21	12.80	2.59	13.44	3.23	10.78	12.23	0.063778	6.29	3.66	4.72	2.28
Rovere	Rovere	18 ROV_S 4	Q 200	33.00	9.32	10.39	12.80	2.41	13.44	3.05	11.15	13.16	0.071886	7.37	4.48	4.72	2.42
Rovere	Rovere	18 ROV_S 4	Q 500	39.00	9.32	10.48	12.80	2.32	13.44	2.96	11.35	13.68	0.075813	7.92	4.92	4.72	2.48
Rovere	Rovere	17.5		Bridge													
Rovere	Rovere	17 ROV_S 3	Q 50	23.00	8.39	9.75	11.19	1.44	11.41	1.66	10.04	10.84	0.023220	4.63	4.97	4.52	1.41
Rovere	Rovere	17 ROV_S 3	Q 200	33.00	8.39	9.99	11.19	1.20	11.41	1.42	10.42	11.50	0.027393	5.45	6.05	4.58	1.52
Rovere	Rovere	17 ROV_S 3	Q 500	39.00	8.39	10.11	11.19	1.08	11.41	1.30	10.62	11.88	0.029577	5.88	6.63	4.62	1.57
Rovere	Rovere	16.2 ROV_S 2 m	Q 50	23.00	6.06	8.17	9.19	1.02	9.13	0.96	7.40	8.36	0.002190	1.93	11.90	6.57	0.46
Rovere	Rovere	16.2 ROV_S 2 m	Q 200	33.00	6.06	9.74	9.19	-0.56	9.13	-0.61	7.71	9.83	0.000599	1.36	26.45	13.43	0.24
Rovere	Rovere	16.2 ROV_S 2 m	Q 500	39.00	6.06	10.06	9.19	-0.87	9.13	-0.93	7.88	10.15	0.000562	1.40	30.71	13.43	0.24
Rovere	Rovere	16.1		Bridge													
Rovere	Rovere	16 ROV_S 2 v	Q 50	23.00	6.07	7.32	10.18	2.86	9.94	2.62	7.55	8.28	0.020701	4.33	5.31	4.59	1.29
Rovere	Rovere	16 ROV_S 2 v	Q 200	33.00	6.07	7.94	10.18	2.24	9.94	2.00	7.94	8.73	0.012127	3.93	8.39	5.32	1.00

HEC-RAS Plan: San Martino (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	LOB Elev (m)	L. Freeboard (m)	ROB Elev (m)	R. Freeboard (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Rovere	Rovere	16 ROV_S 2 v	Q 500	39.00	6.07	8.15	10.18	2.03	9.94	1.79	8.15	9.00	0.012038	4.10	9.51	5.56	1.00
Rovere	Rovere	15 ROV_S 1	Q 50	23.00	4.39	7.49	7.69	0.20	6.79	-0.70	5.79	7.54	0.000438	1.05	24.39	14.90	0.20
Rovere	Rovere	15 ROV_S 1	Q 200	33.00	4.39	8.19	7.69	-0.50	6.79	-1.40	6.07	8.23	0.000286	0.98	39.23	18.30	0.17
Rovere	Rovere	15 ROV_S 1	Q 500	39.00	4.39	8.36	7.69	-0.67	6.79	-1.57	6.22	8.40	0.000320	1.07	42.31	18.30	0.18
Fagiani	Fagiani	23 FAG_S 4	Q 50	8.00	37.82	38.98	42.21	3.23	41.00	2.02	38.98	39.54	0.019307	3.33	2.40	2.11	1.00
Fagiani	Fagiani	23 FAG_S 4	Q 200	12.00	37.82	39.33	42.21	2.88	41.00	1.67	39.33	40.07	0.021504	3.81	3.15	2.13	1.00
Fagiani	Fagiani	23 FAG_S 4	Q 500	14.00	37.82	39.49	42.21	2.72	41.00	1.51	39.49	40.31	0.022382	4.00	3.50	2.14	1.00
Fagiani	Fagiani	22 FAG_S 3	Q 50	8.00	33.73	34.53	34.90	0.37	35.02	0.49	35.18	35.94	0.049647	5.26	1.52	2.25	2.05
Fagiani	Fagiani	22 FAG_S 3	Q 200	12.00	33.73	34.79	34.90	0.11	35.02	0.23	35.38	36.40	0.044123	5.62	2.14	2.43	1.91
Fagiani	Fagiani	22 FAG_S 3	Q 500	14.00	33.73	34.91	34.90	-0.01	35.02	0.11	35.43	36.61	0.042567	5.78	2.42	2.80	1.87
Fagiani	Fagiani	21.4 Sezione 21 porta	Q 50	8.00	30.66	31.42	32.64	1.22	36.00	4.58	31.72	32.46	0.039898	4.52	1.77	2.81	1.82
Fagiani	Fagiani	21.4 Sezione 21 porta	Q 200	12.00	30.66	31.60	32.64	1.04	36.00	4.40	32.02	33.02	0.043480	5.28	2.27	2.81	1.87
Fagiani	Fagiani	21.4 Sezione 21 porta	Q 500	14.00	30.66	31.68	32.64	0.96	36.00	4.32	32.15	33.27	0.044579	5.58	2.51	2.81	1.88
Fagiani	Fagiani	21.3 FAG_S 2	Q 50	8.00	30.66	31.45	32.63	1.18	36.00	4.55	31.72	32.39	0.034610	4.31	1.86	2.81	1.69
Fagiani	Fagiani	21.3 FAG_S 2	Q 200	12.00	30.66	31.63	32.63	1.00	36.00	4.37	32.02	32.95	0.039112	5.09	2.36	2.81	1.77
Fagiani	Fagiani	21.3 FAG_S 2	Q 500	14.00	30.66	31.71	32.63	0.92	36.00	4.29	32.15	33.19	0.040510	5.39	2.60	2.81	1.79
Fagiani	Fagiani	21.2	Q 50	8.00	27.86	28.56	29.83	1.27	33.20	4.64	28.92	29.82	0.052893	4.98	1.61	2.81	2.10
Fagiani	Fagiani	21.2	Q 200	12.00	27.86	28.77	29.83	1.07	33.20	4.44	29.22	30.31	0.048895	5.50	2.18	2.81	1.99
Fagiani	Fagiani	21.2	Q 500	14.00	27.86	28.86	29.83	0.97	33.20	4.34	29.35	30.53	0.048089	5.73	2.44	2.81	1.96
Fagiani	Fagiani	21 FAG_S 1	Q 50	8.00	16.34	19.00	18.31	-0.69	21.68	2.68	17.40	19.06	0.000750	1.08	7.67	3.61	0.26
Fagiani	Fagiani	21 FAG_S 1	Q 200	12.00	16.34	19.69	18.31	-1.38	21.68	1.99	17.70	19.77	0.000803	1.24	10.17	3.61	0.29
Fagiani	Fagiani	21 FAG_S 1	Q 500	14.00	16.34	20.53	18.31	-2.22	21.68	1.15	17.83	20.60	0.000556	1.12	13.21	3.61	0.24