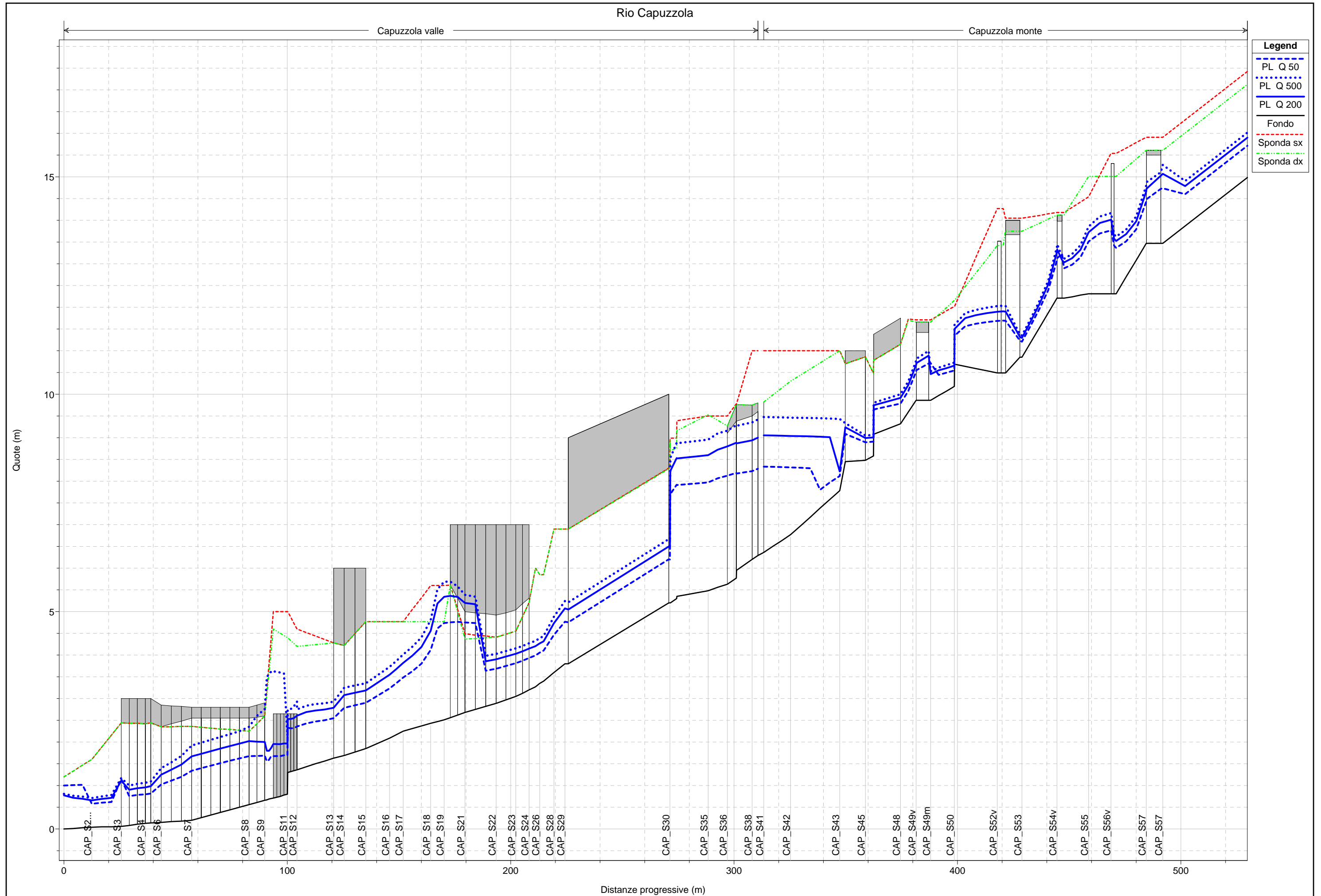


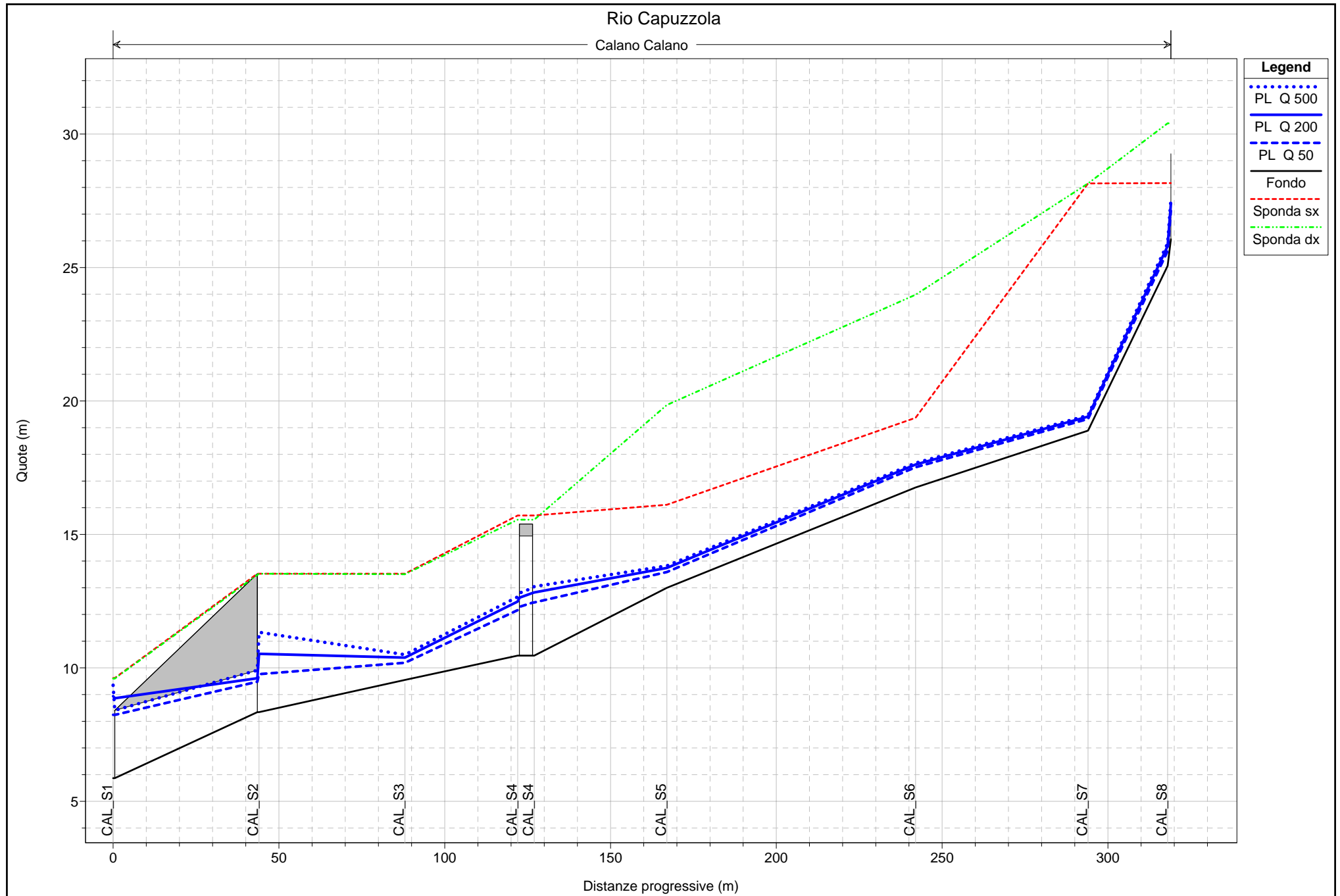
# Rio Capuzzola

Asta principale: dalla sezione CAP\_S57 alla CAP\_S1

Rio Calano: dalla sezione CAL\_S9 alla CAL\_S1

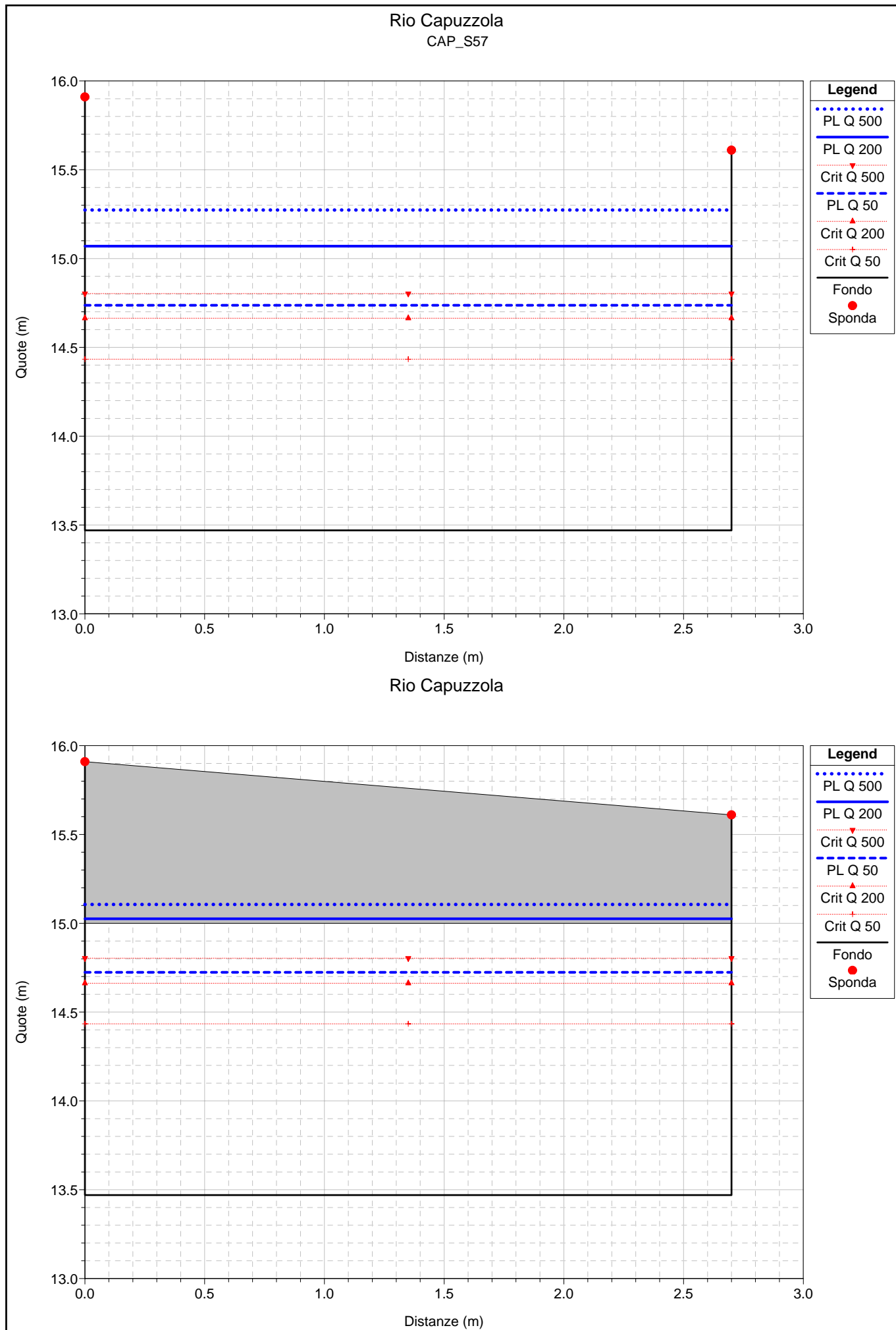
- Profili di corrente
- Sezioni idrauliche
- Tabelle dei risultati

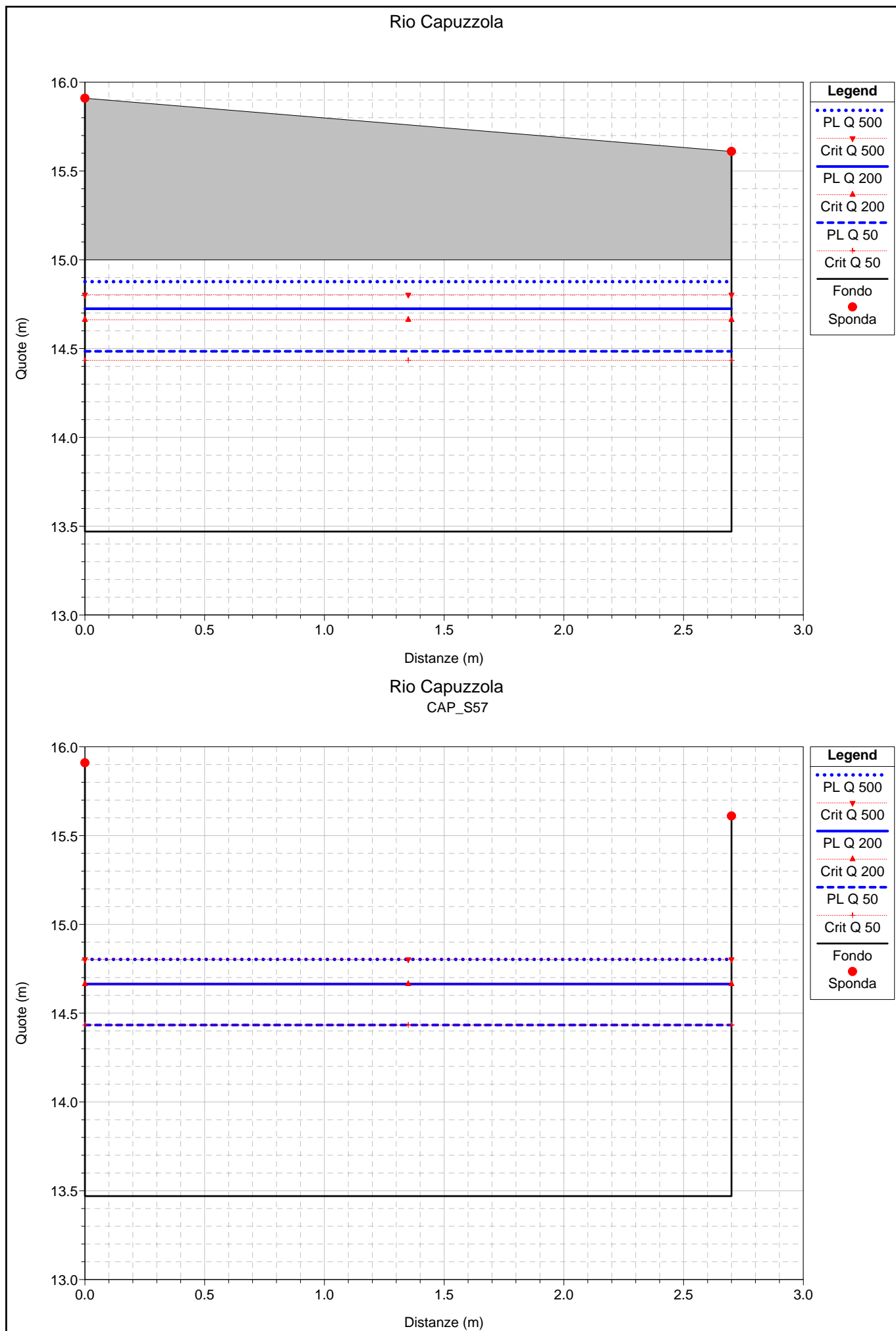


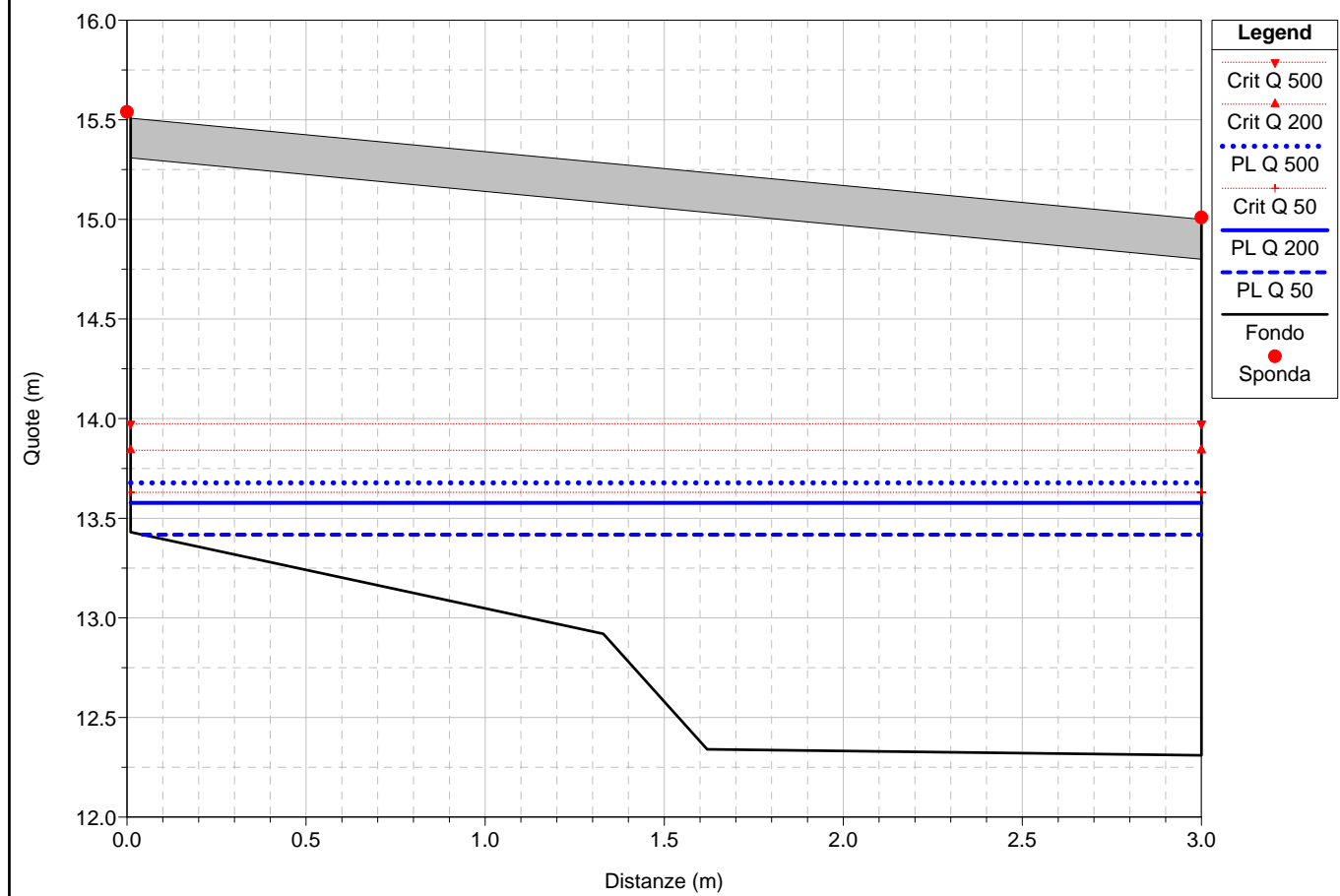
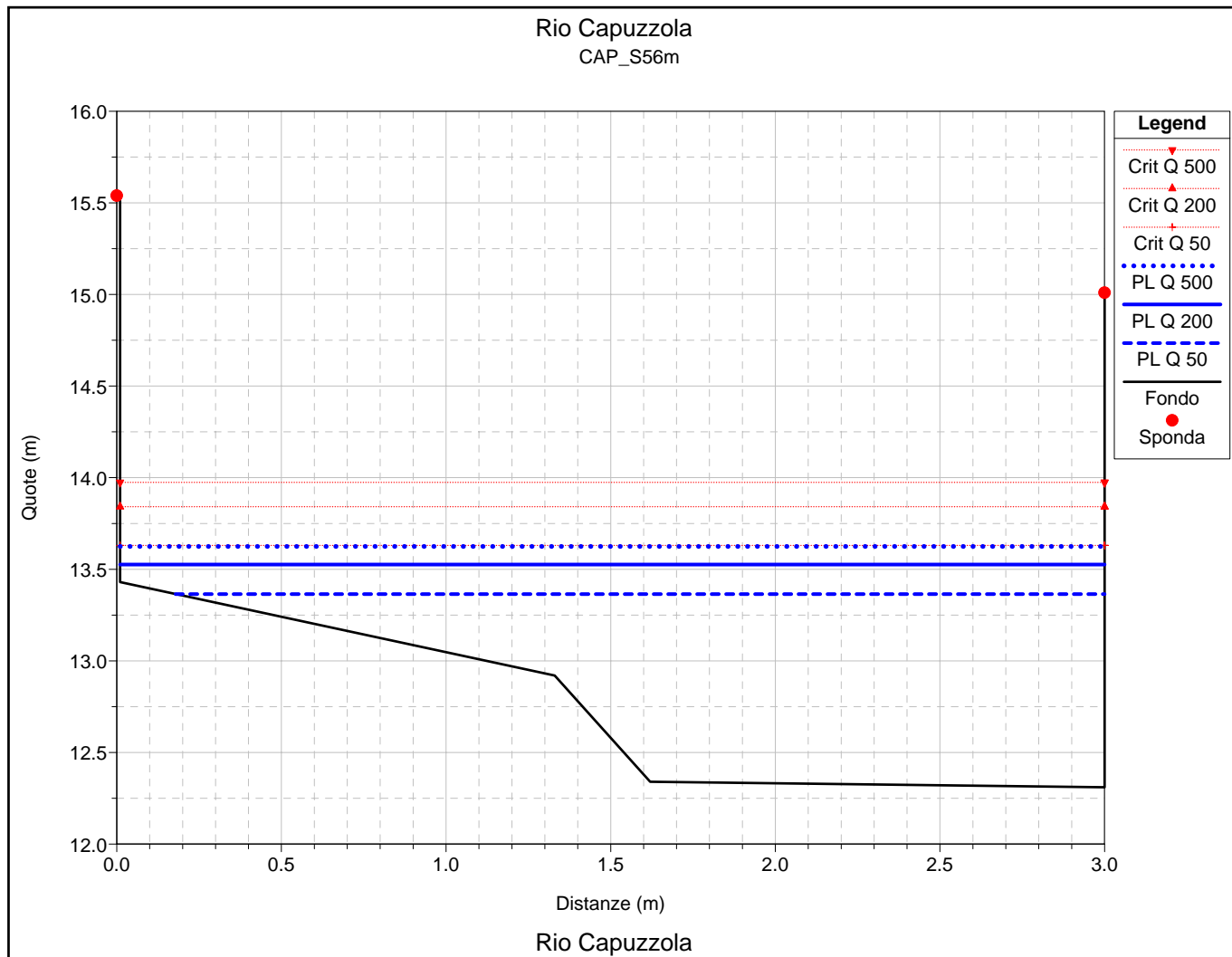


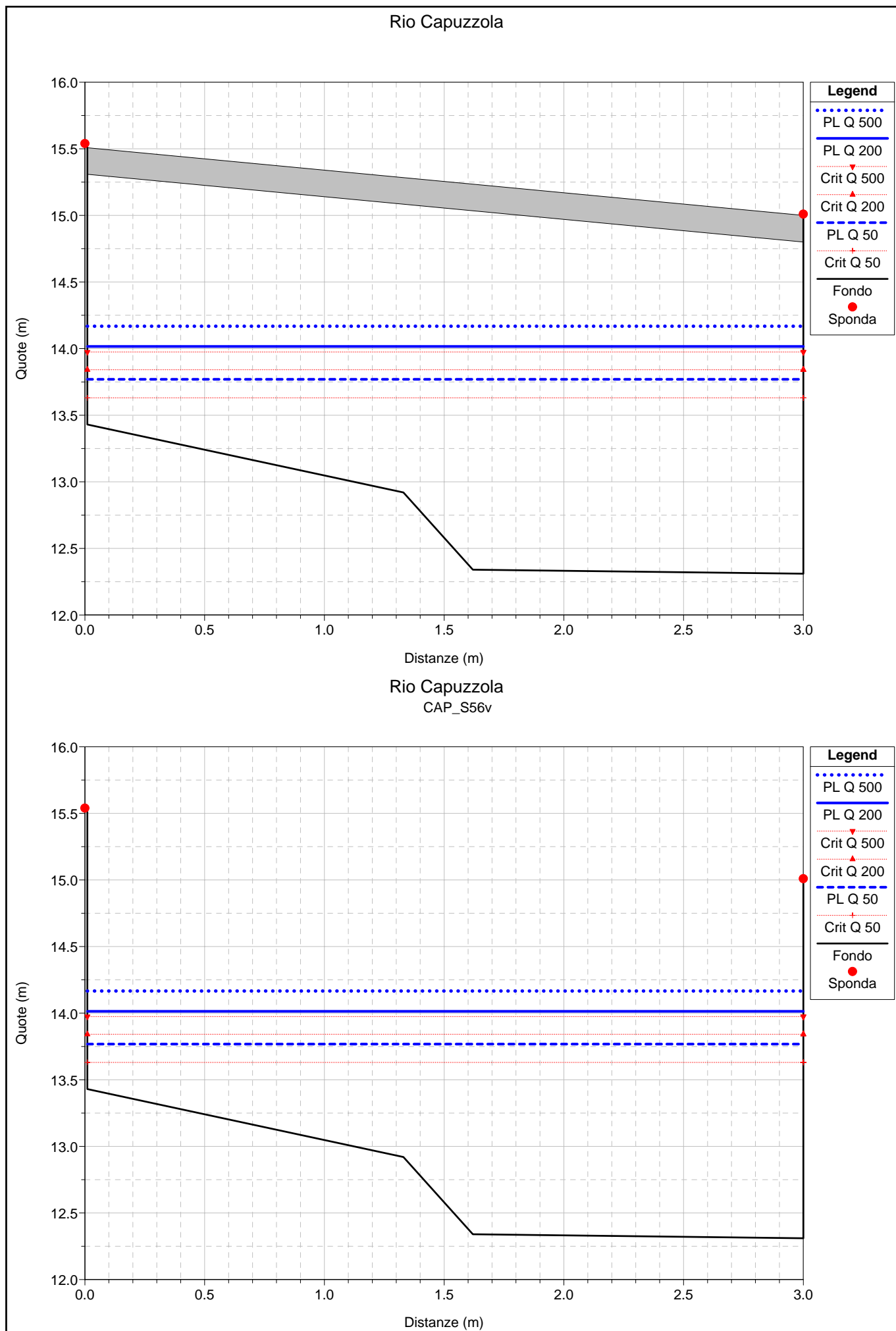
1 cm Horiz. = 15 m 1 cm Vert. = 1.863458 m

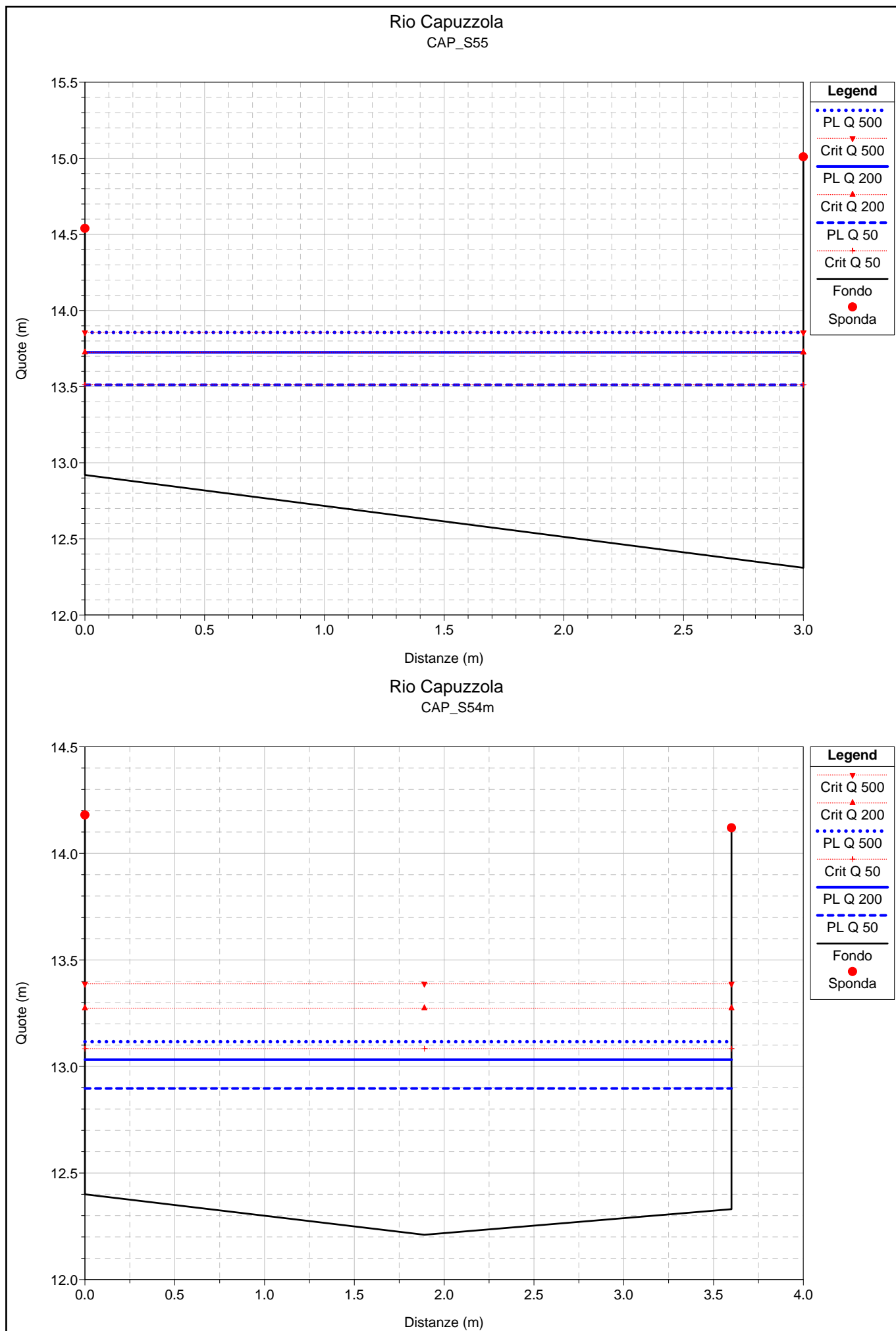
Approvato con D.C.P. n. 28 del 28-03-2007



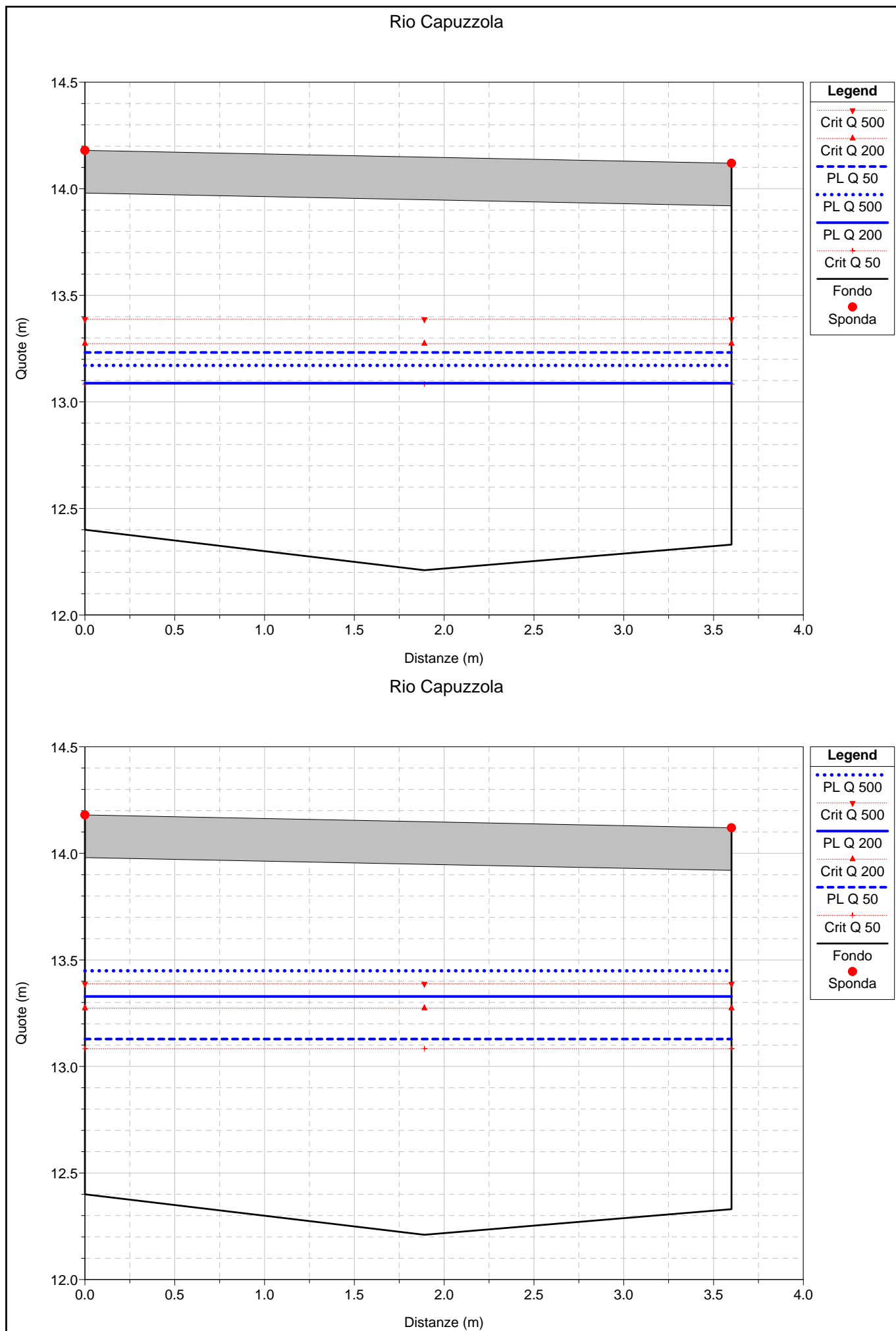


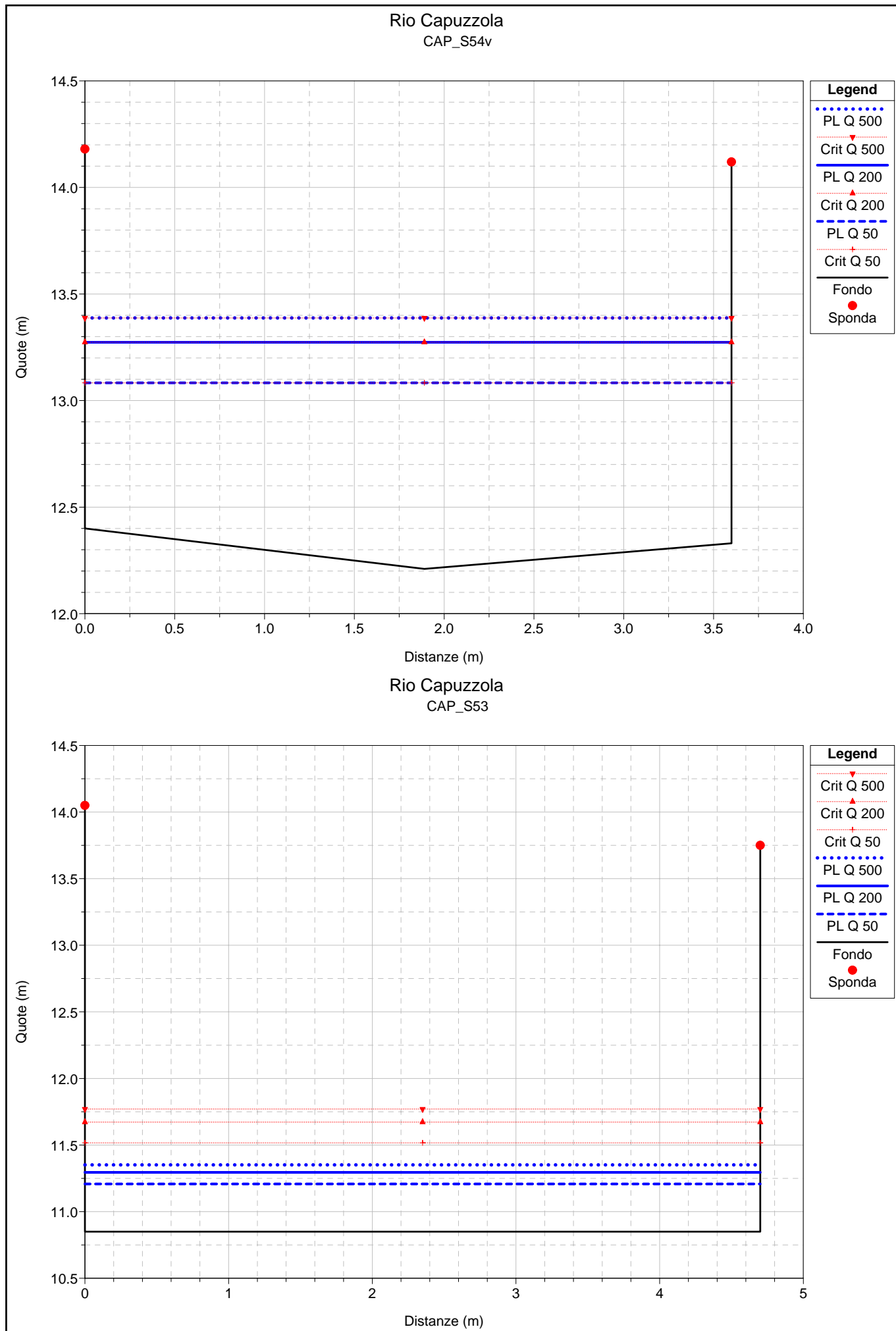


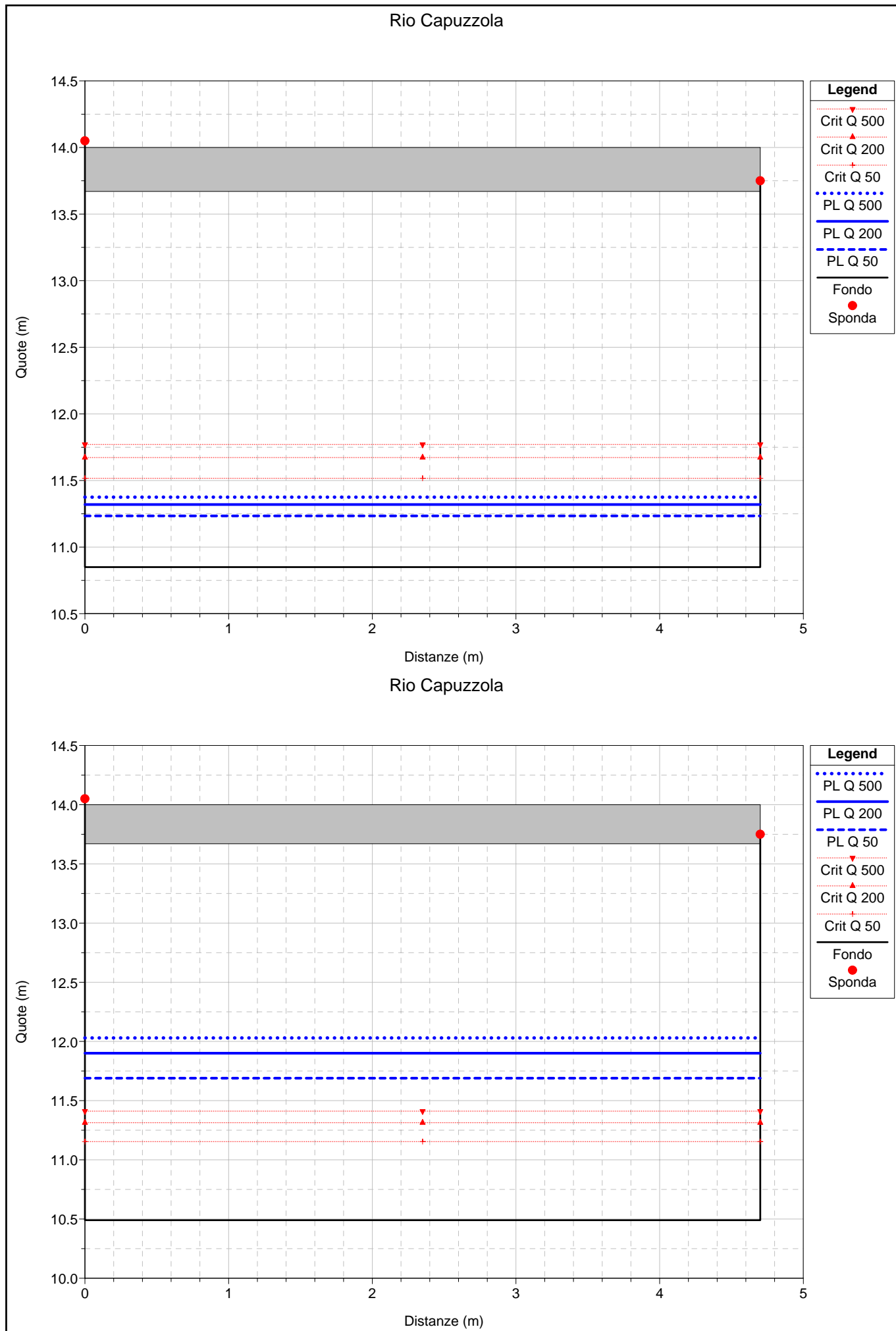


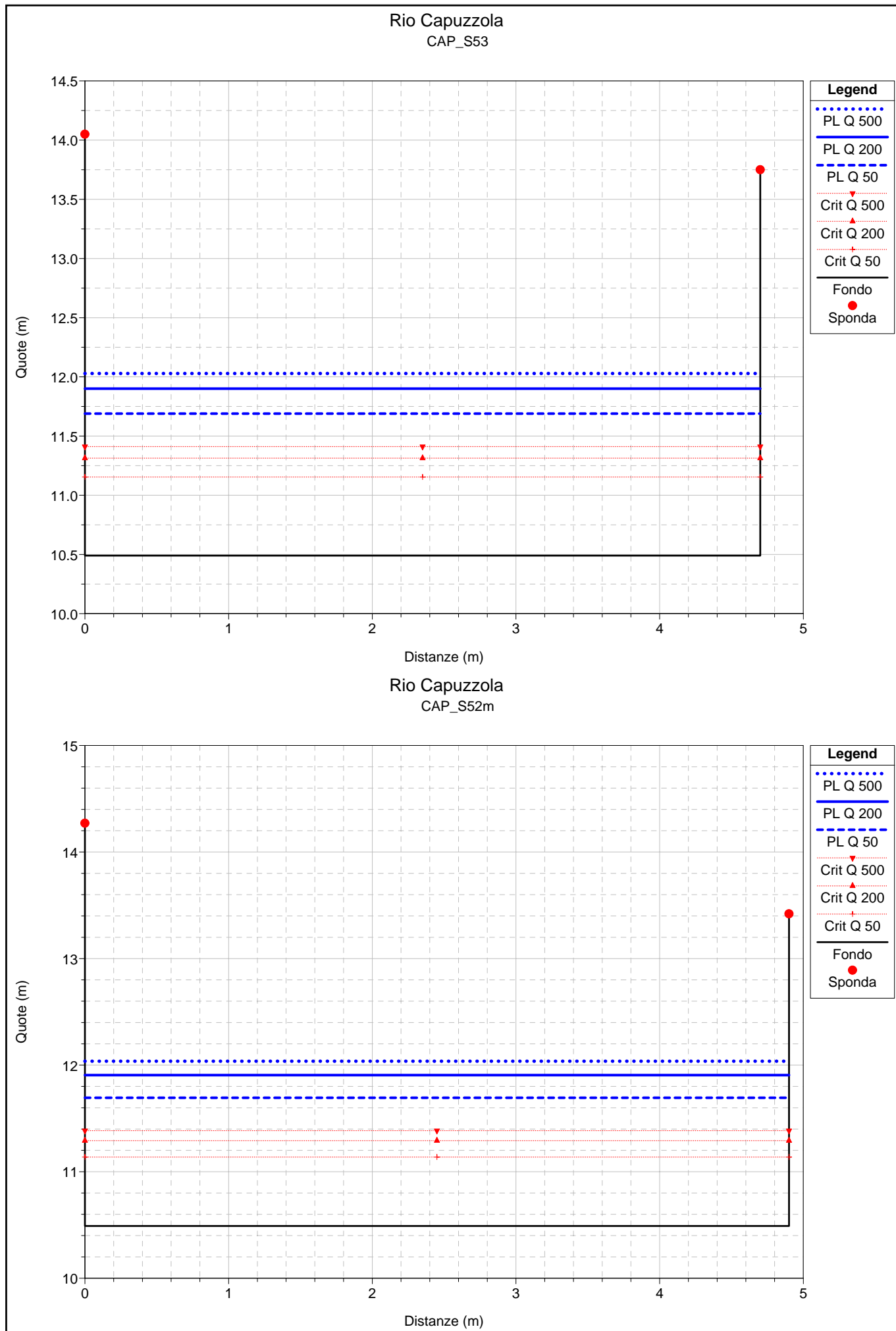


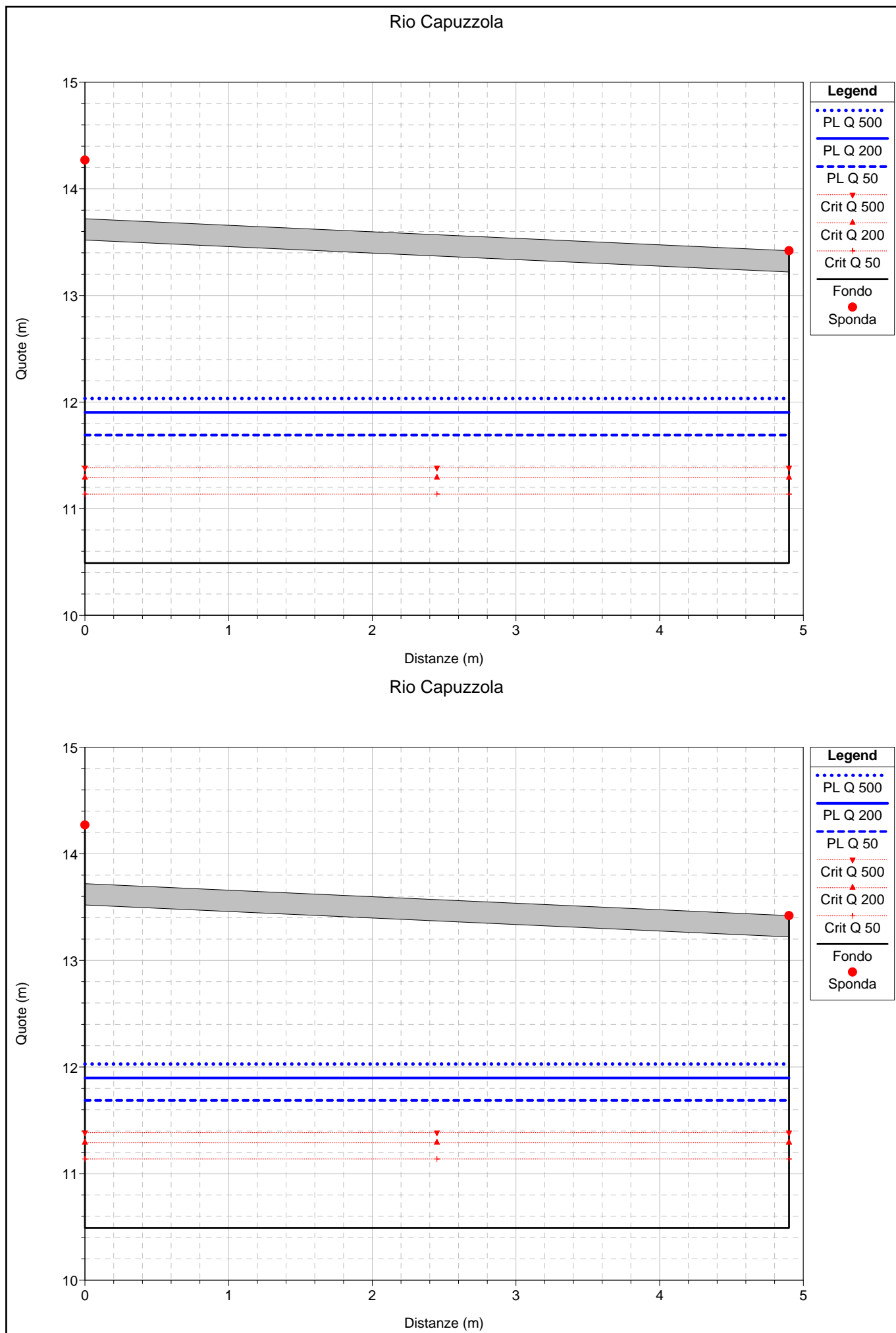


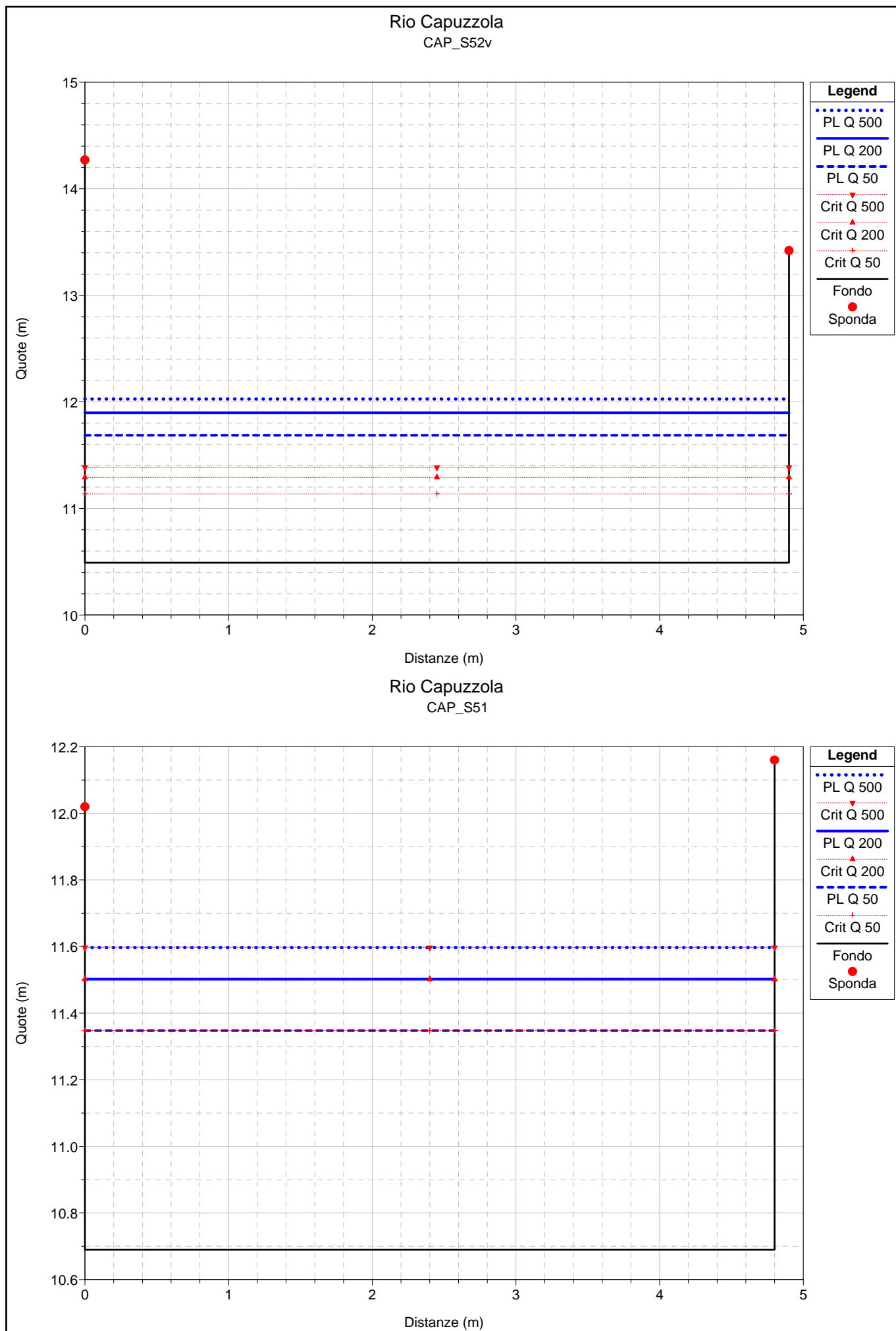


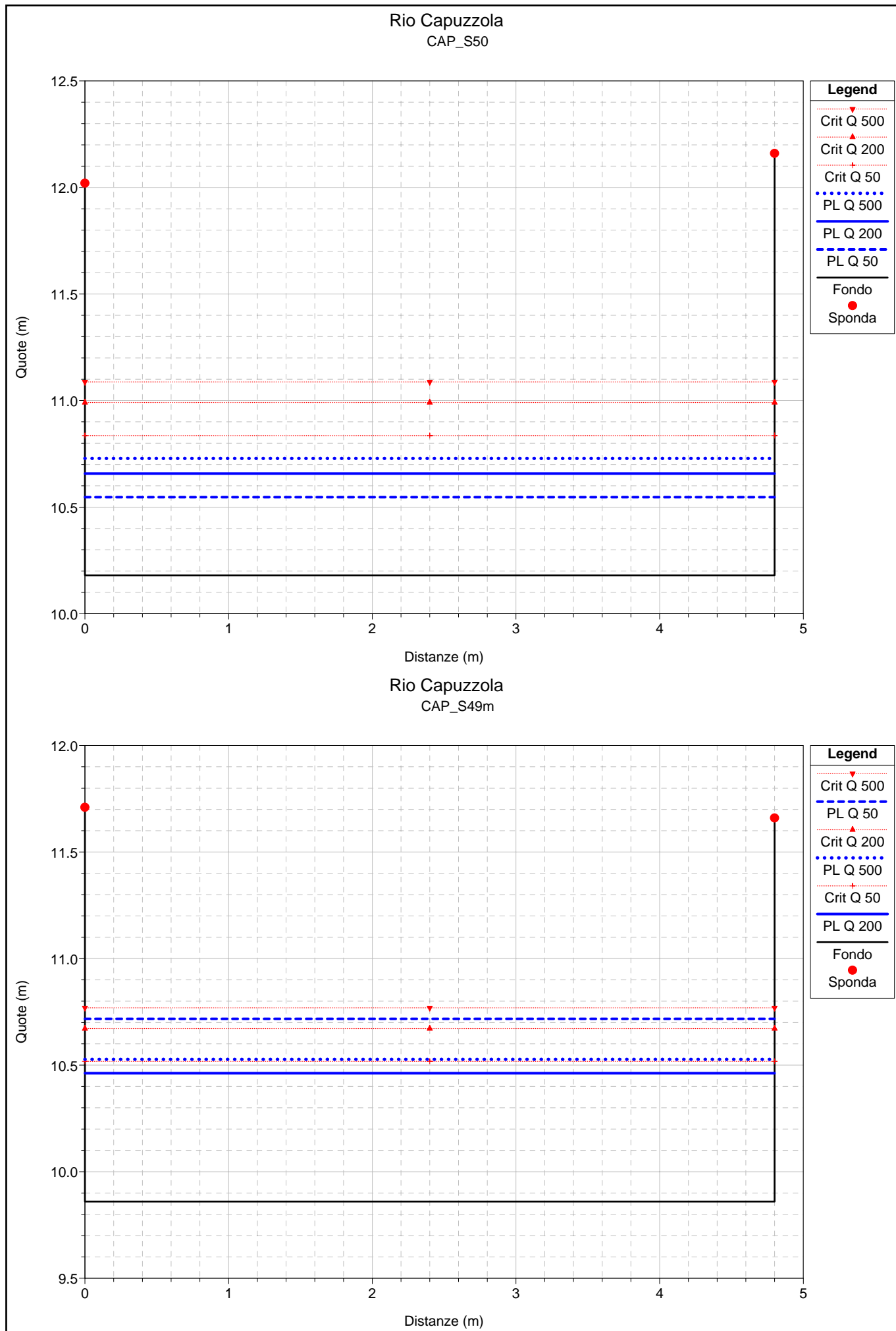


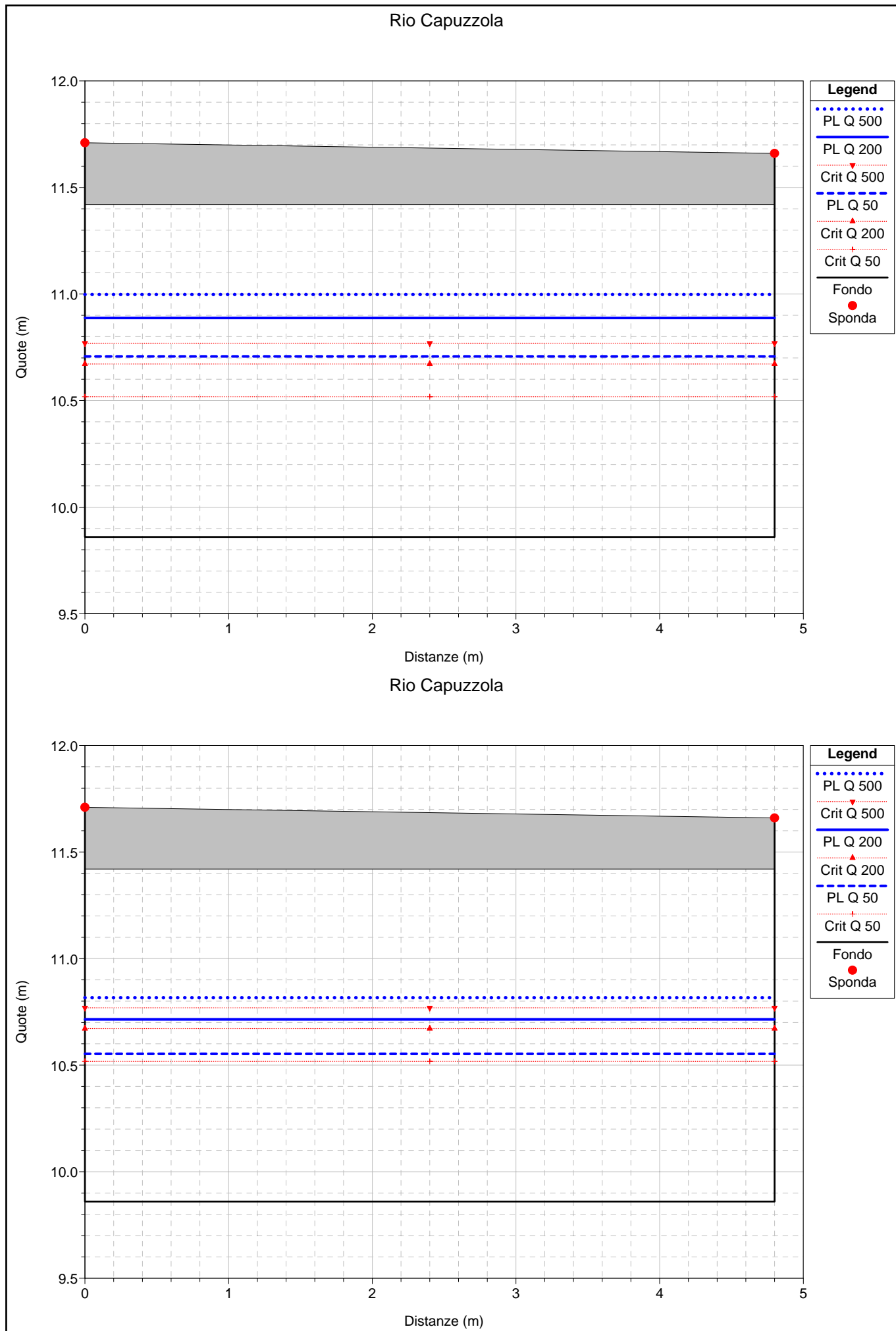




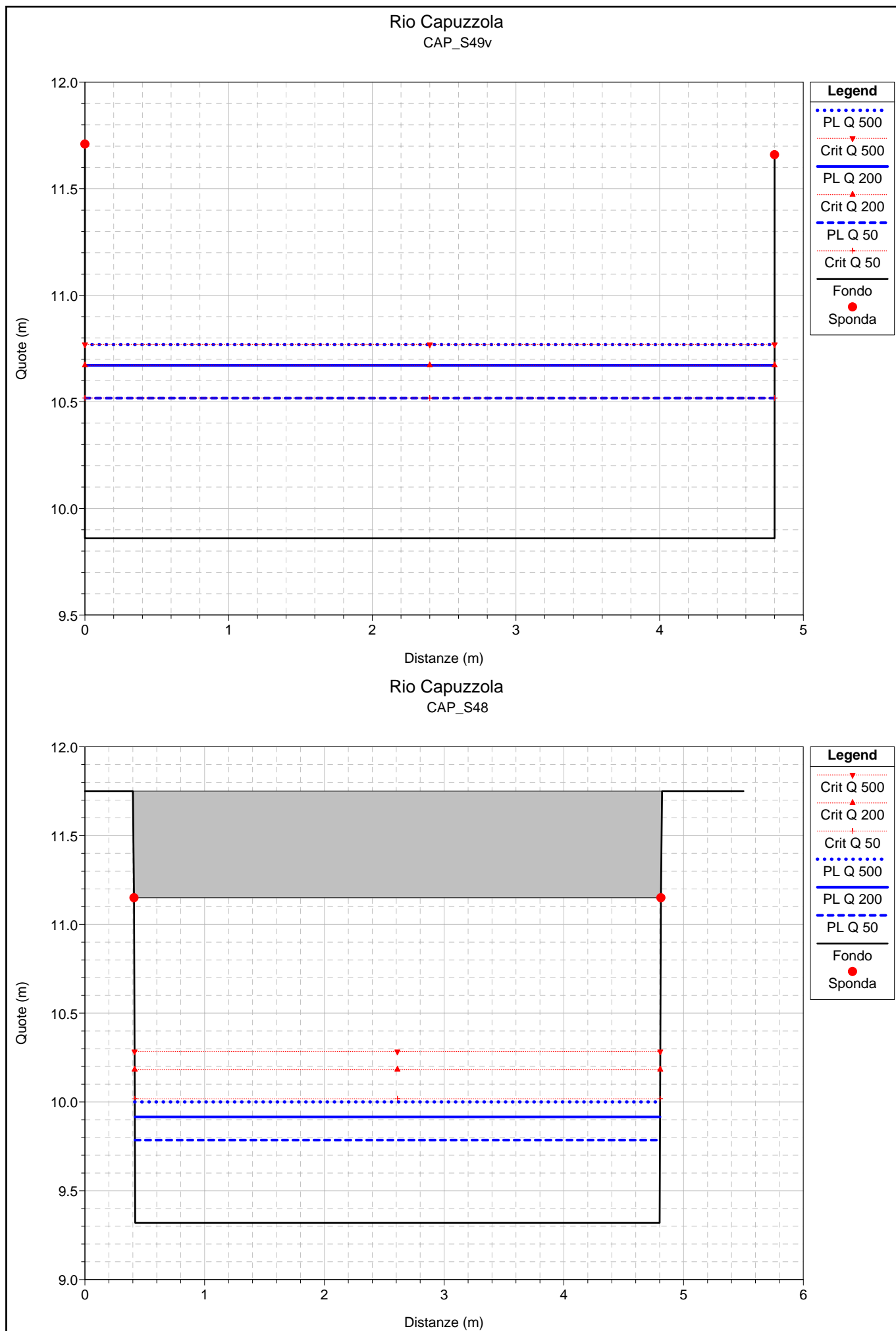


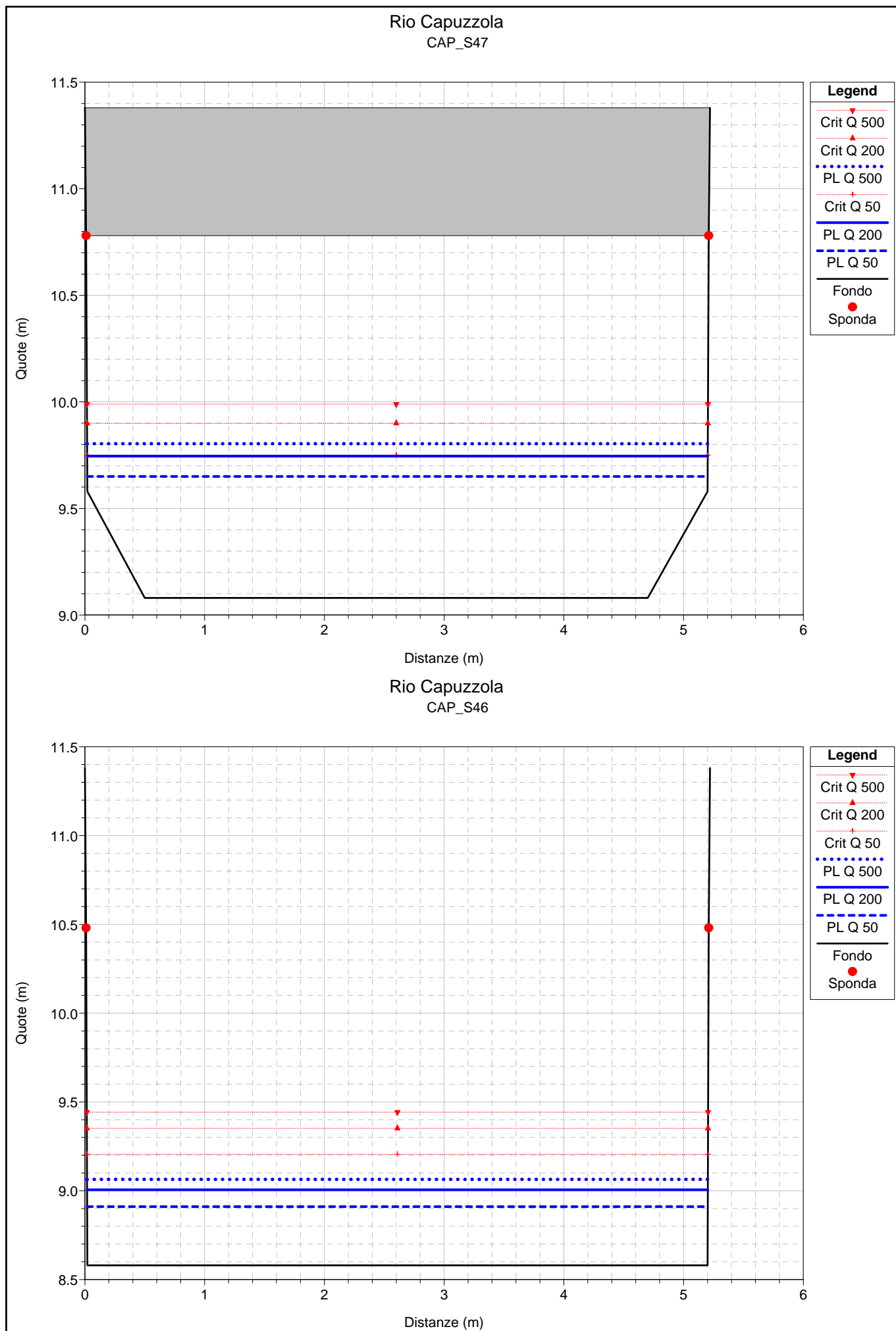


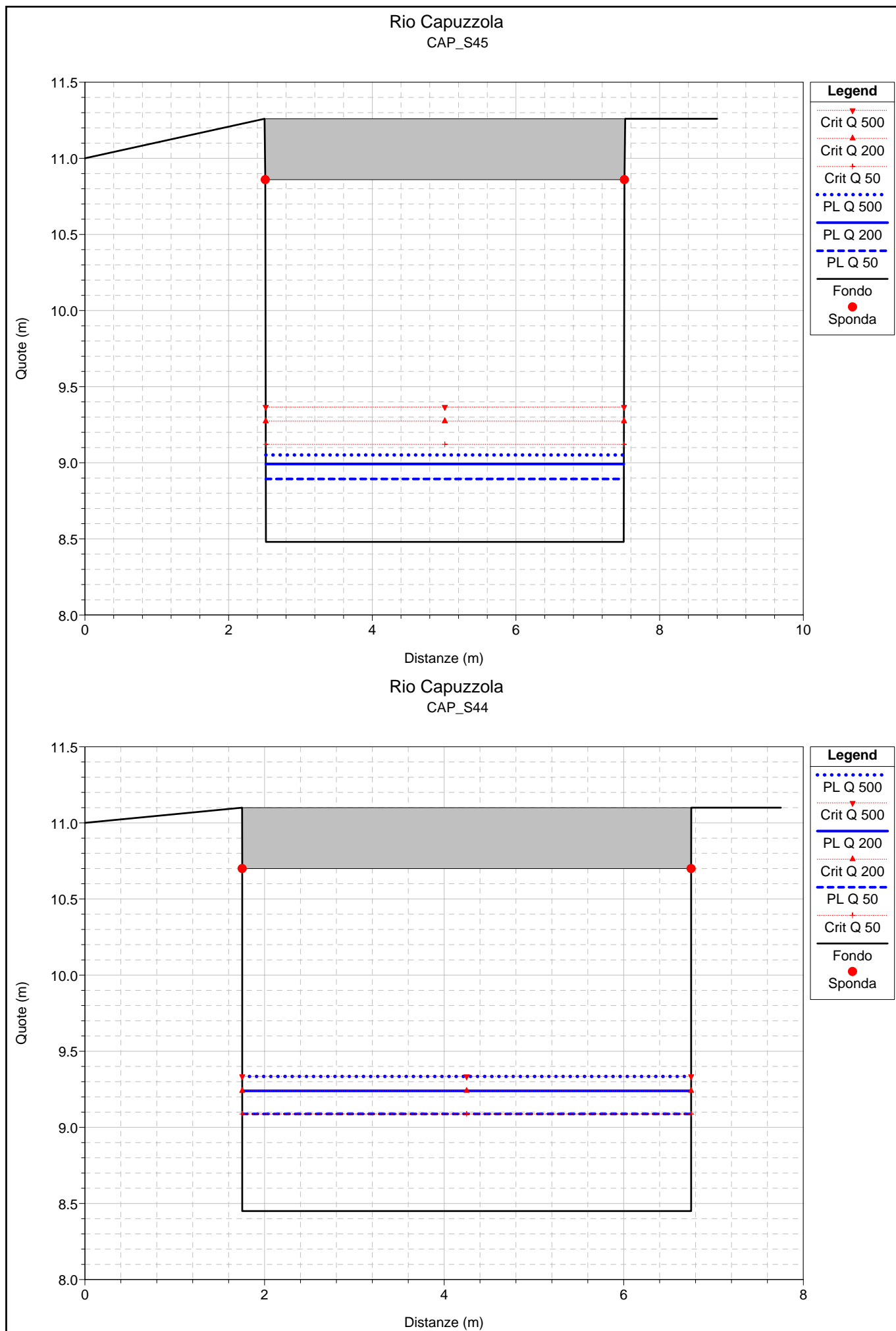


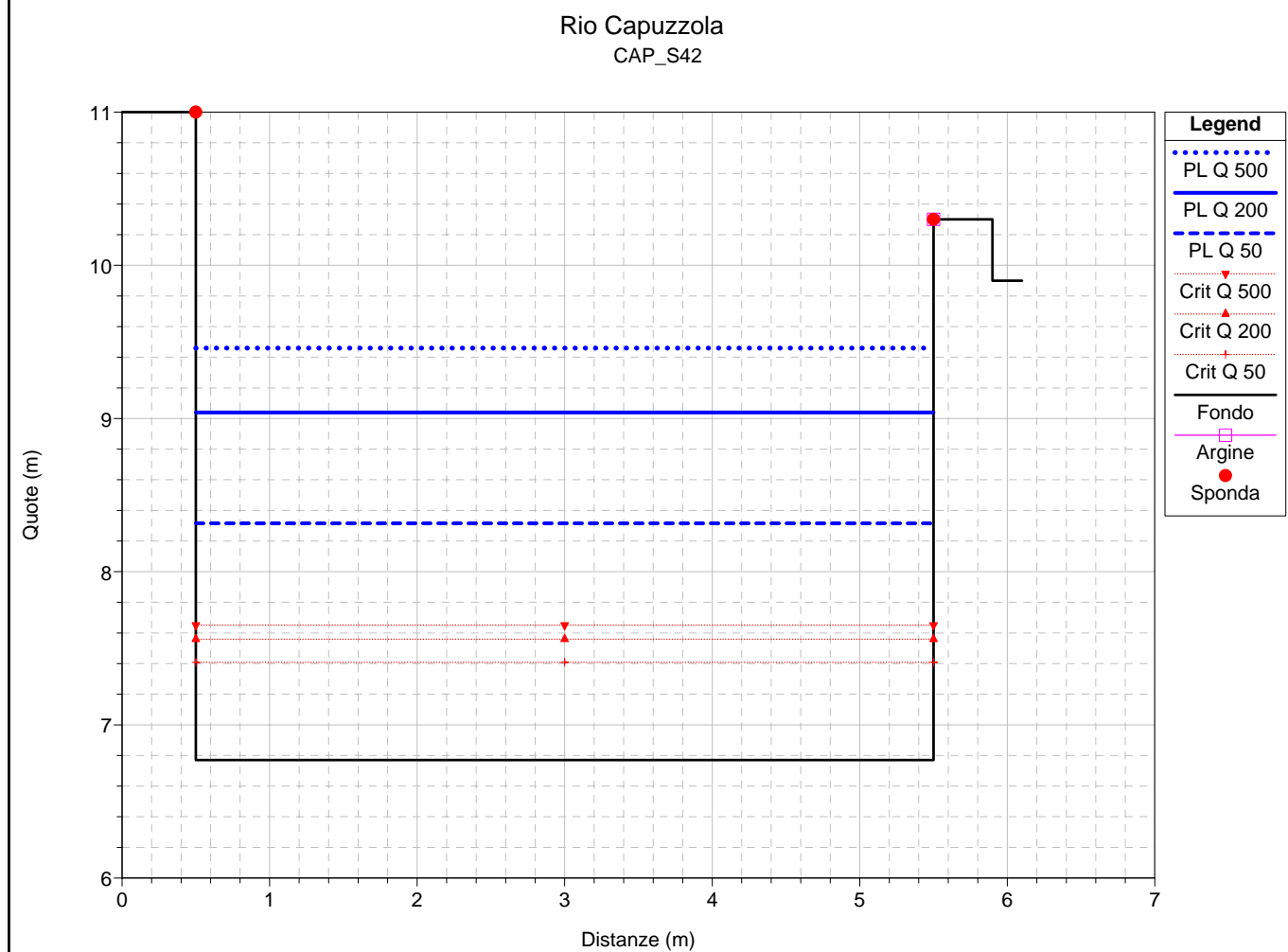
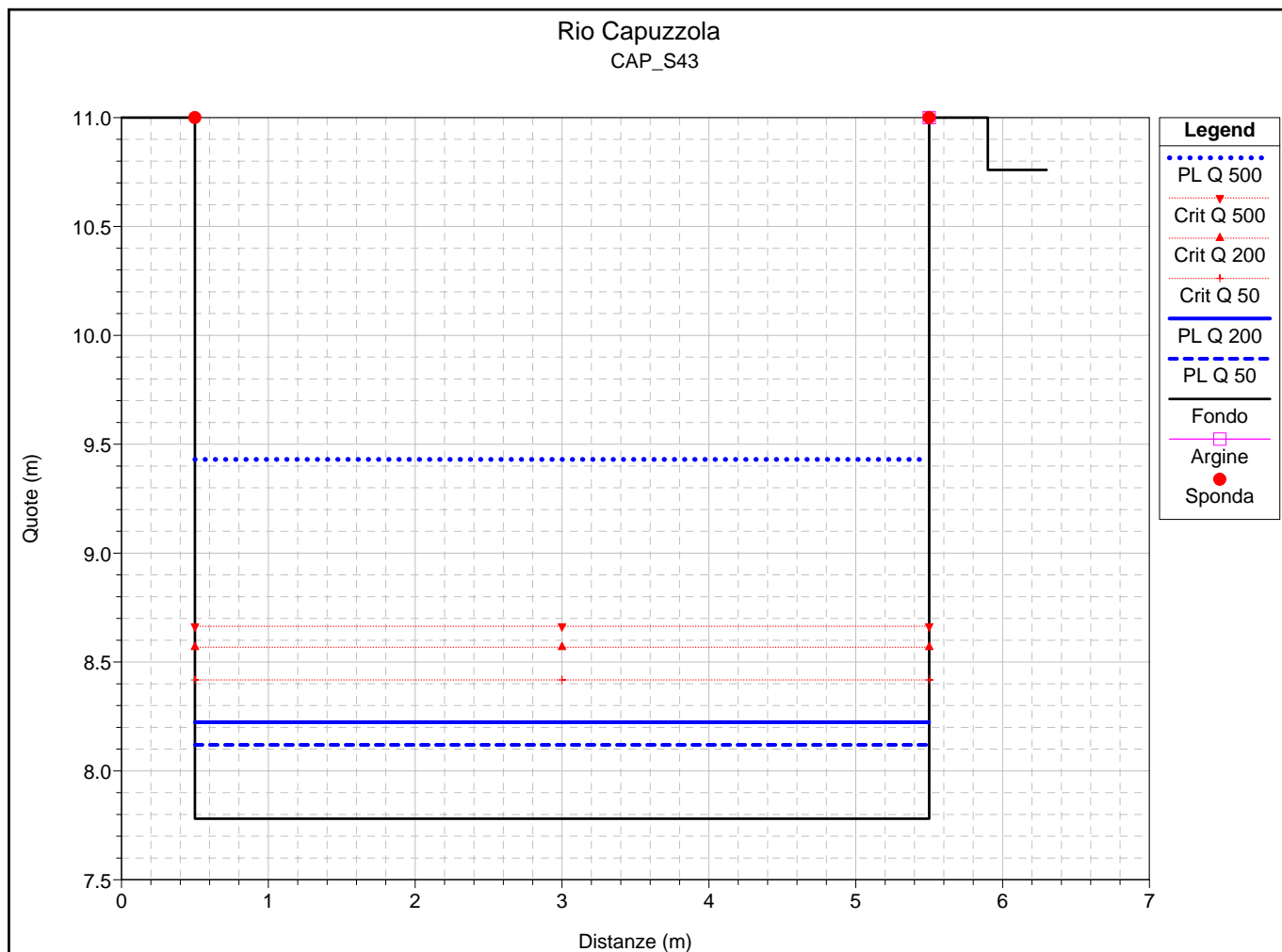


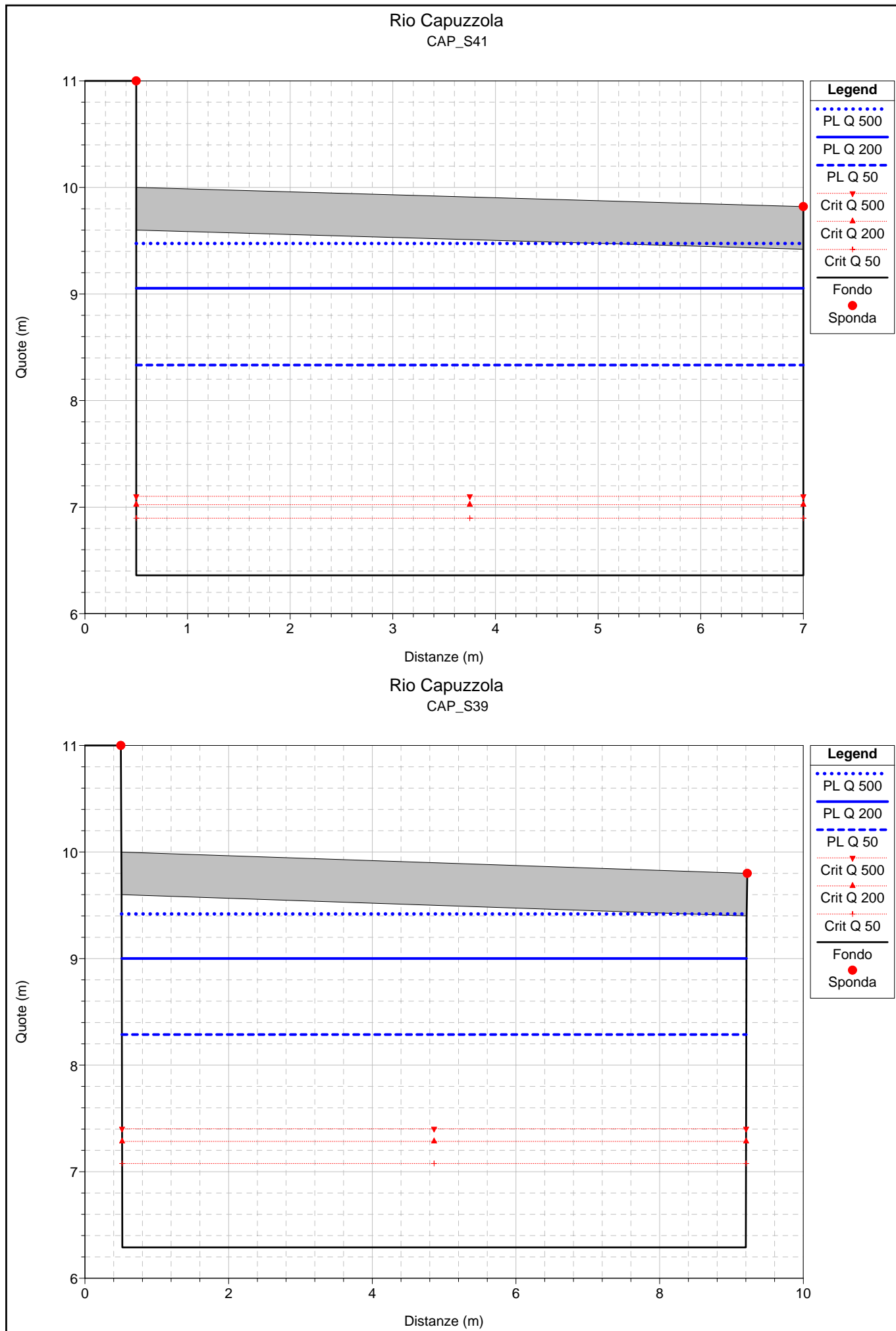


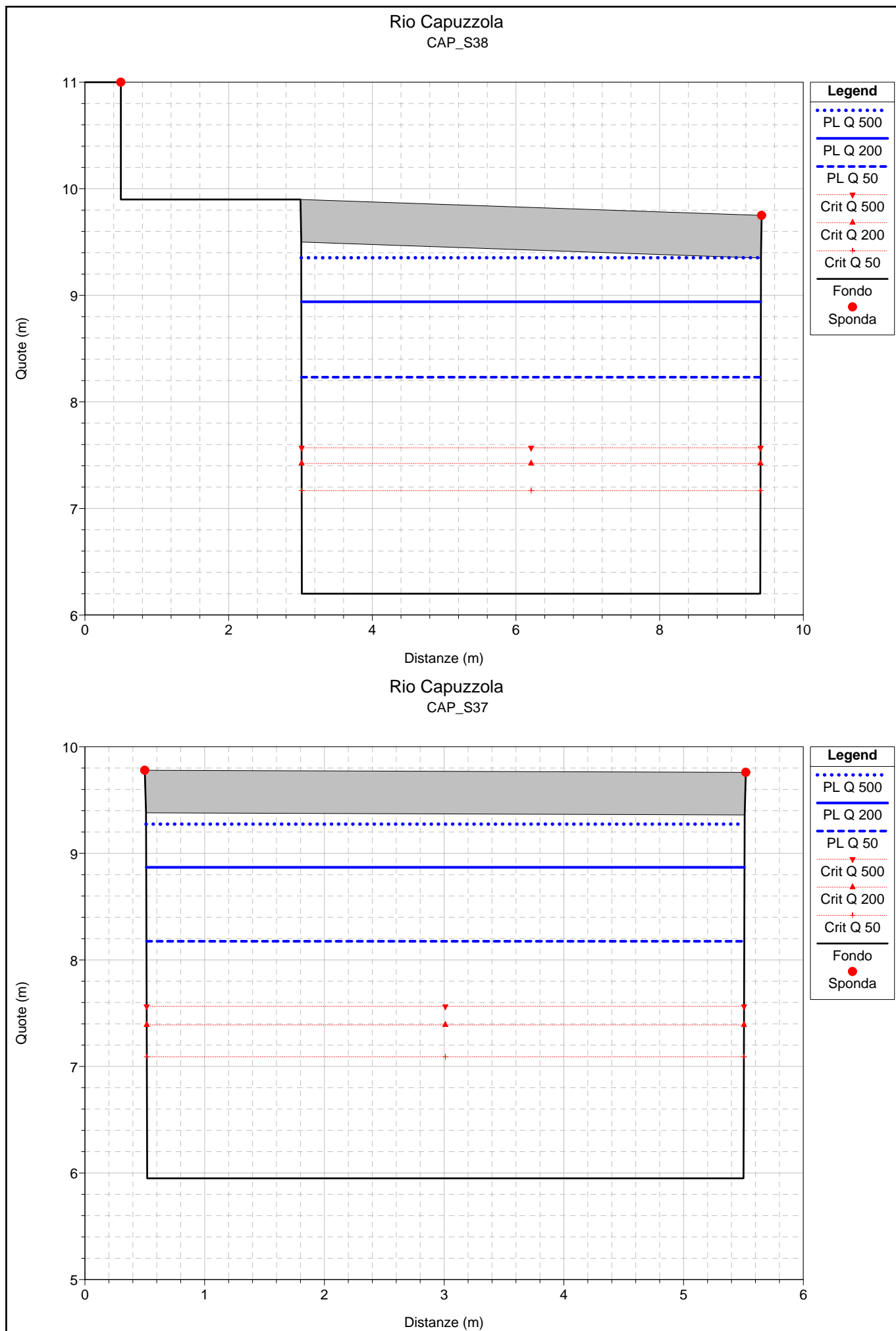


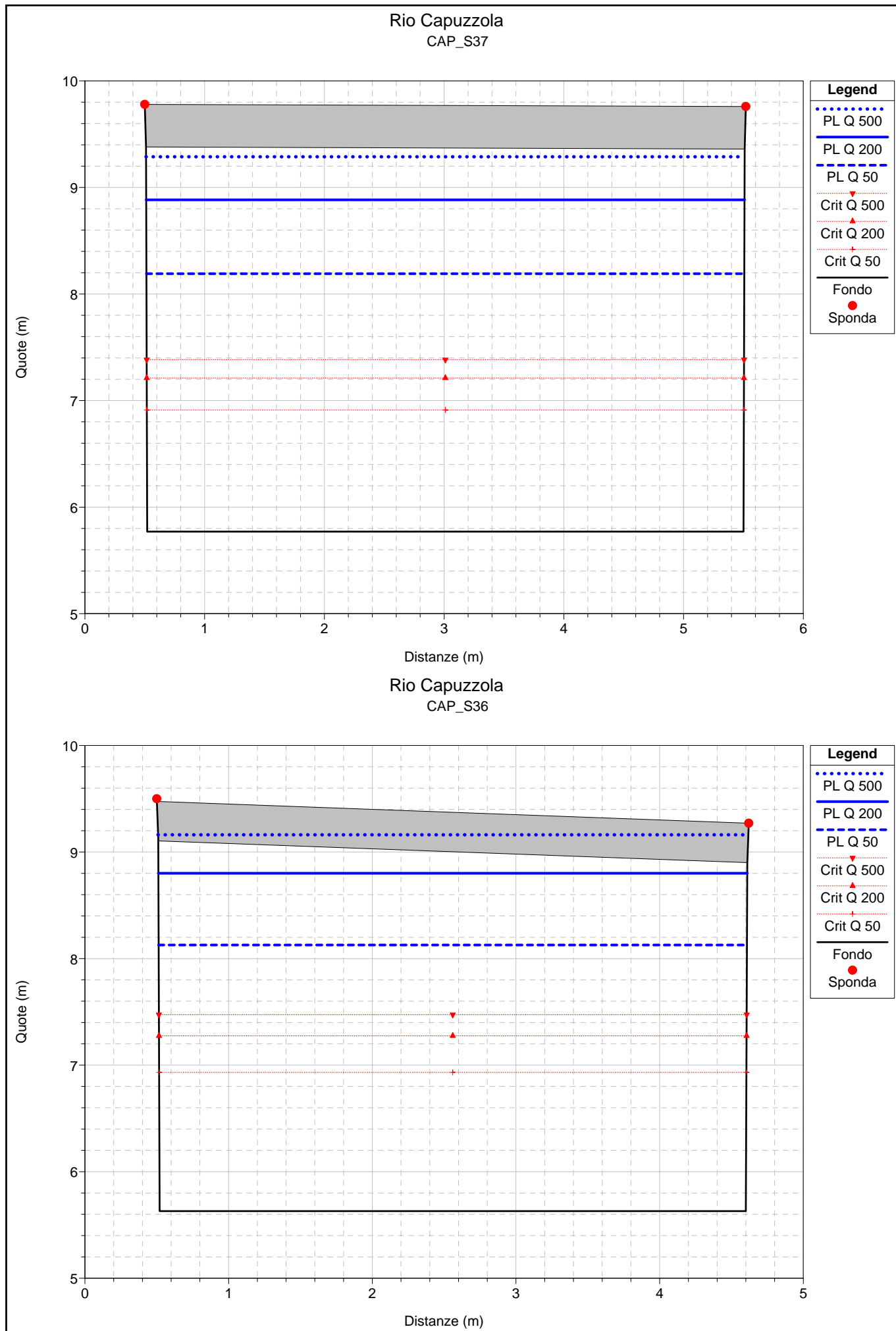


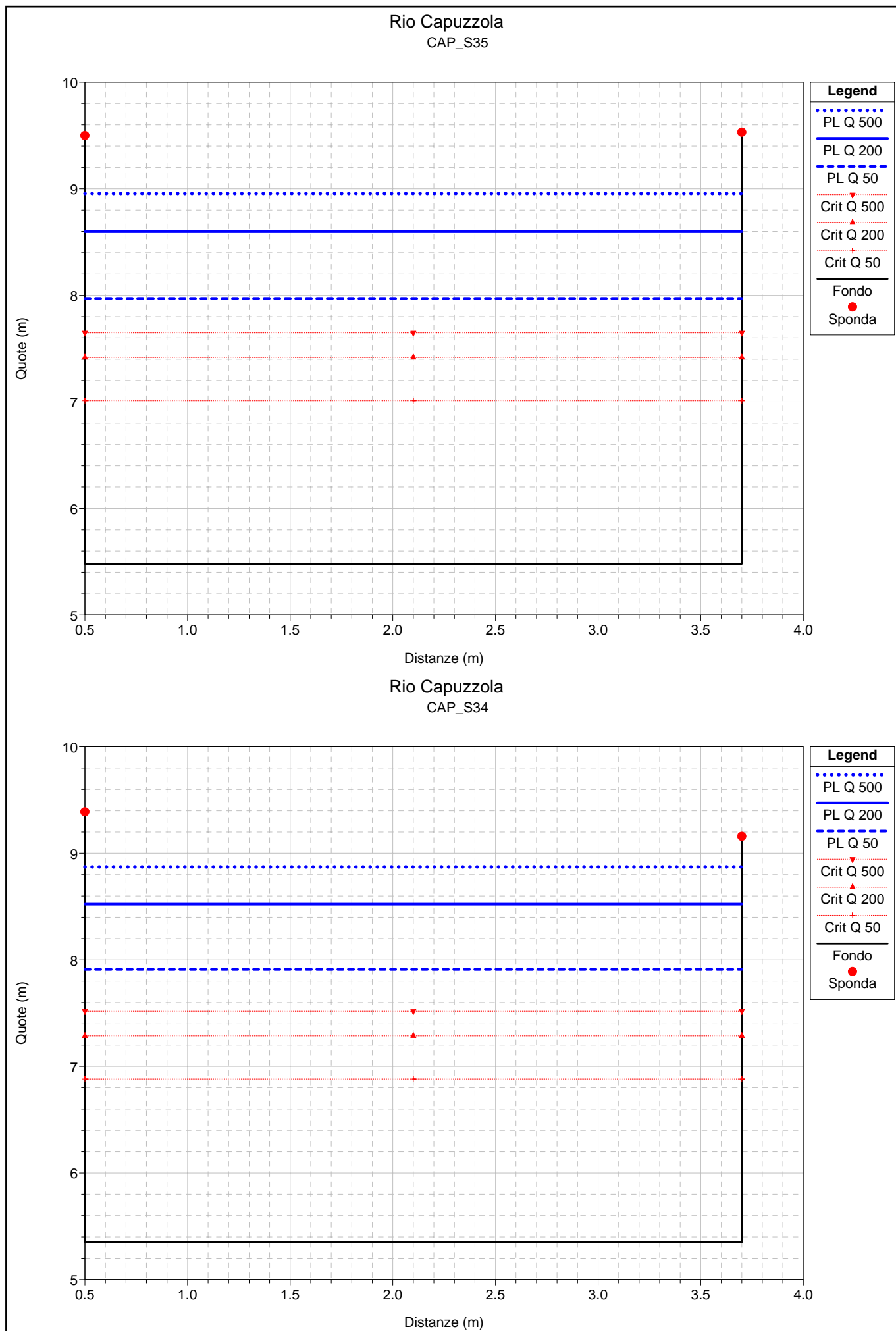




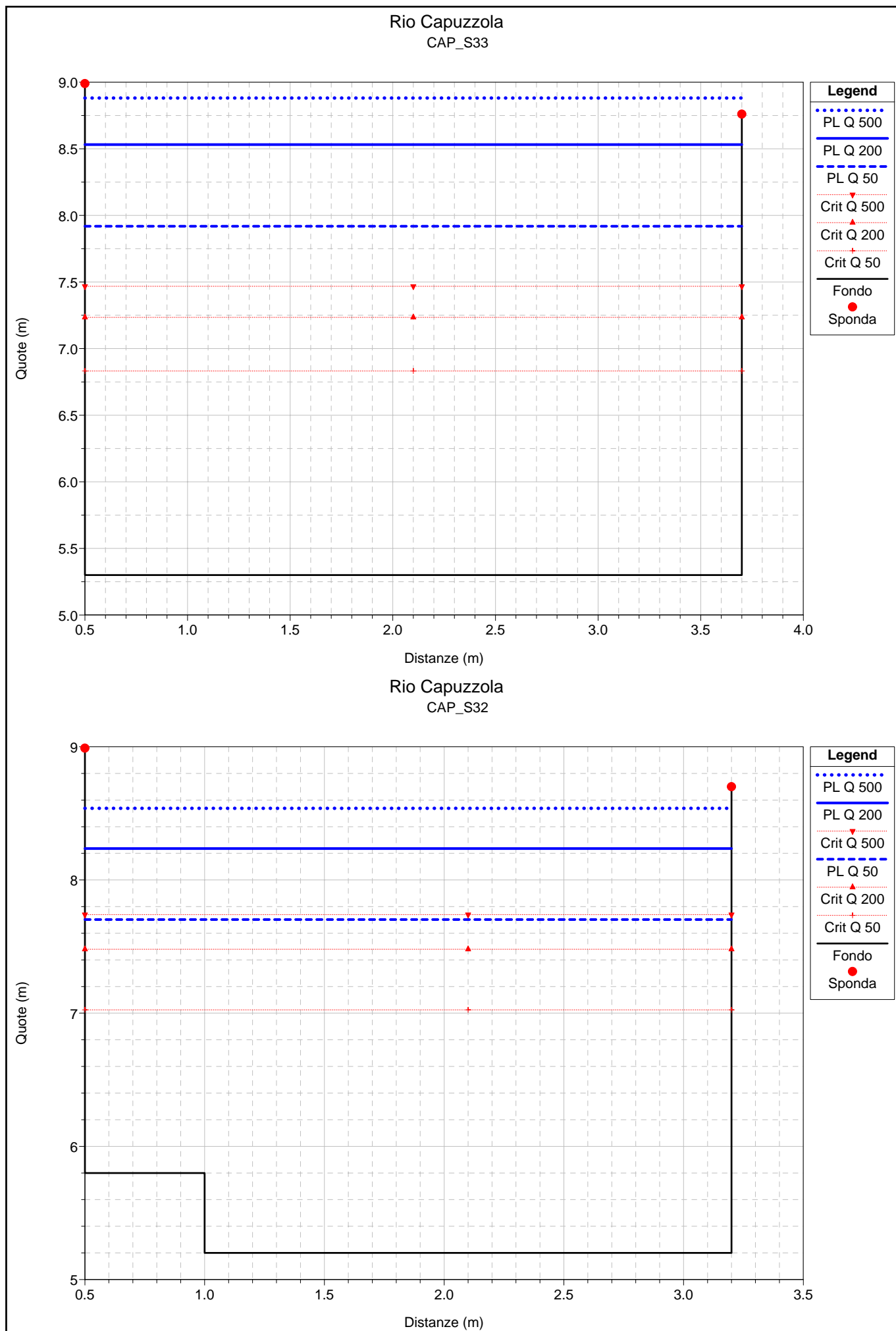


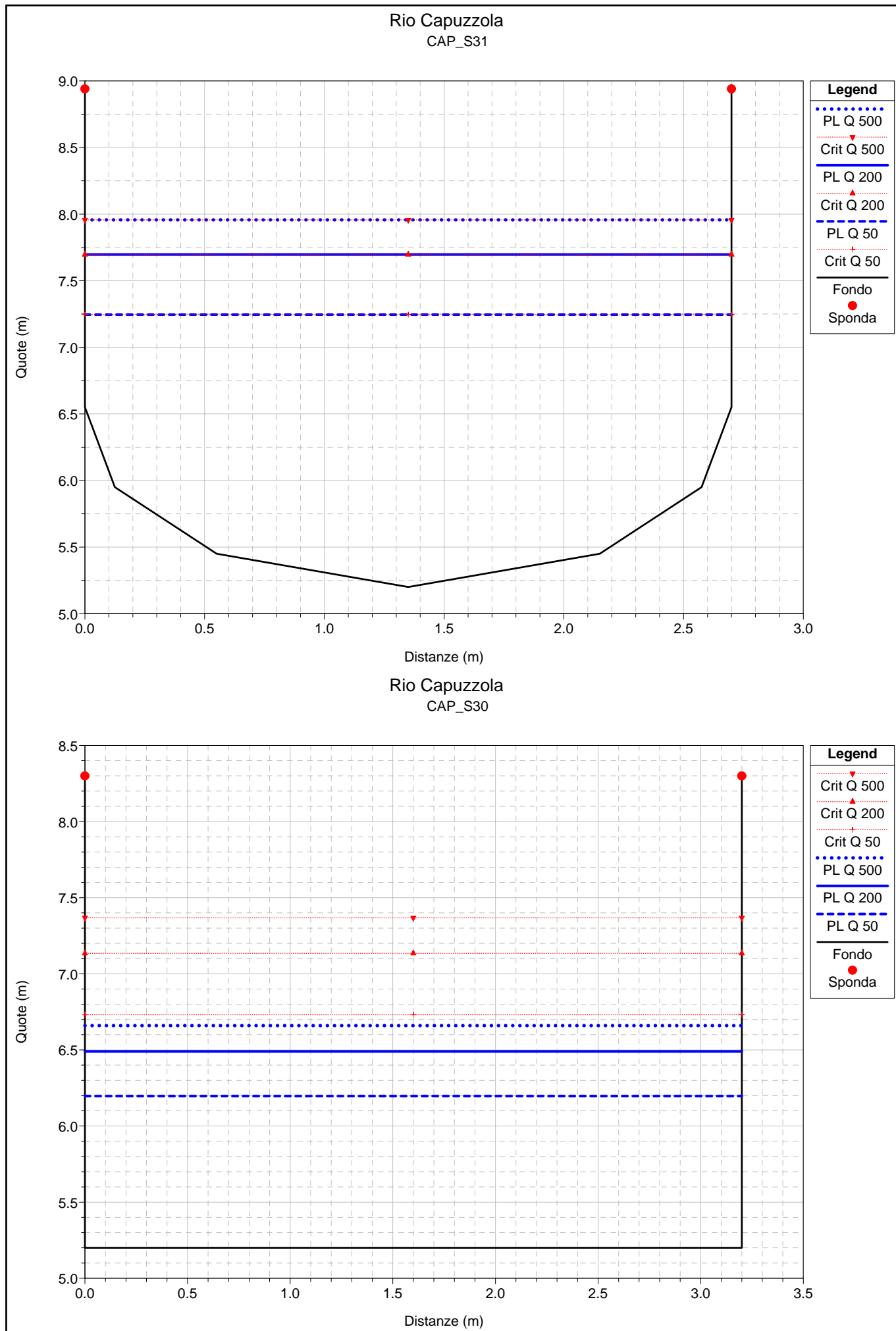


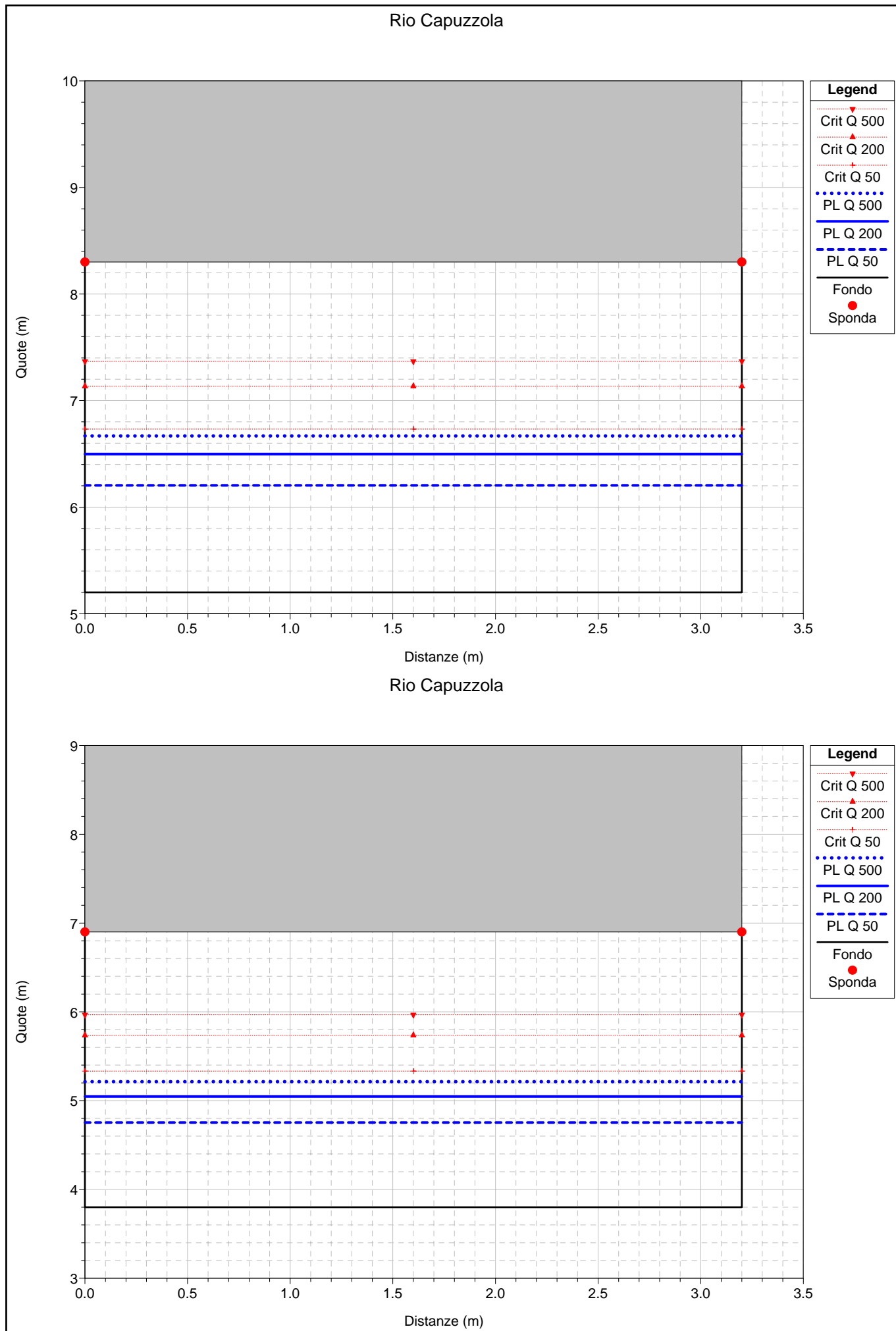


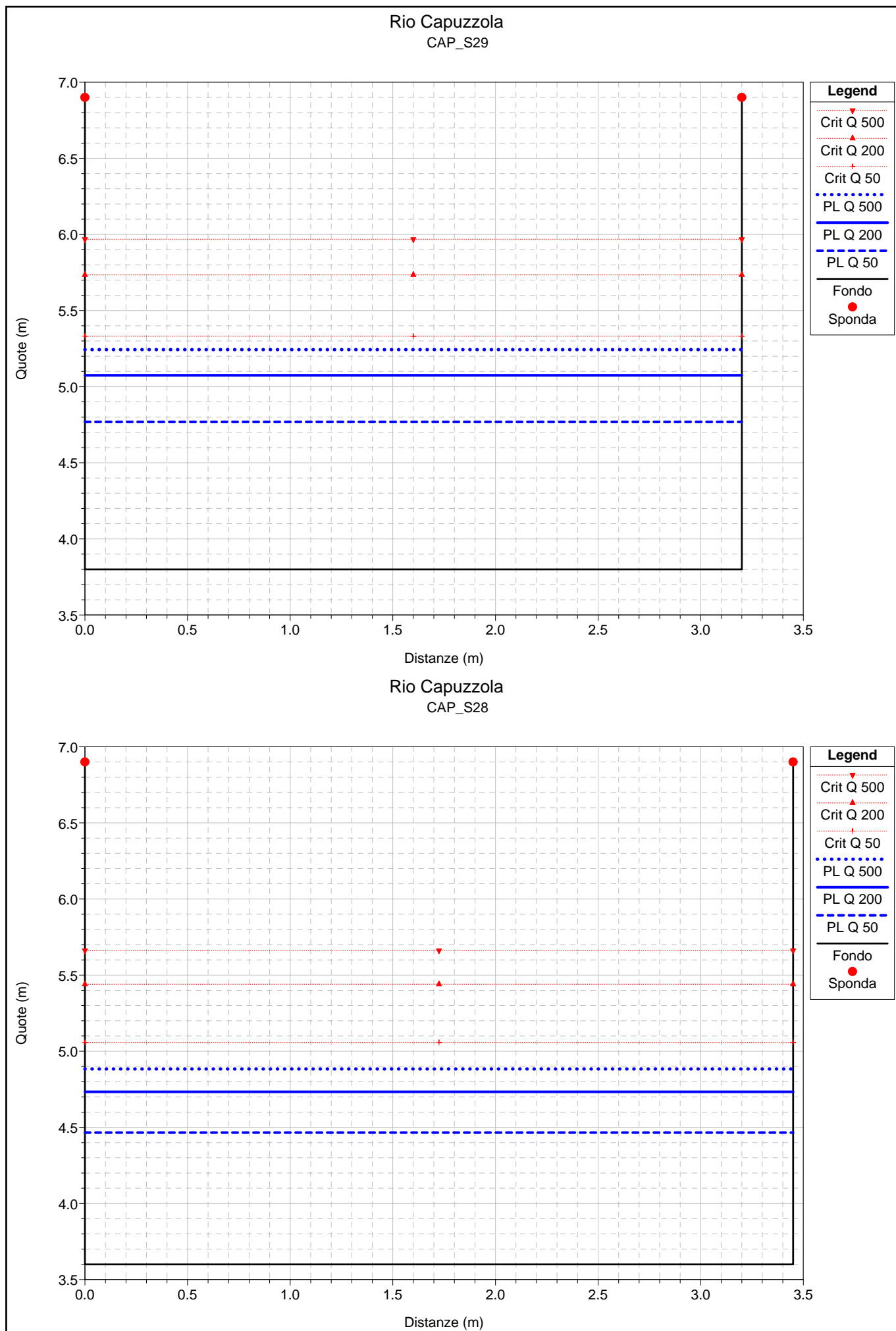


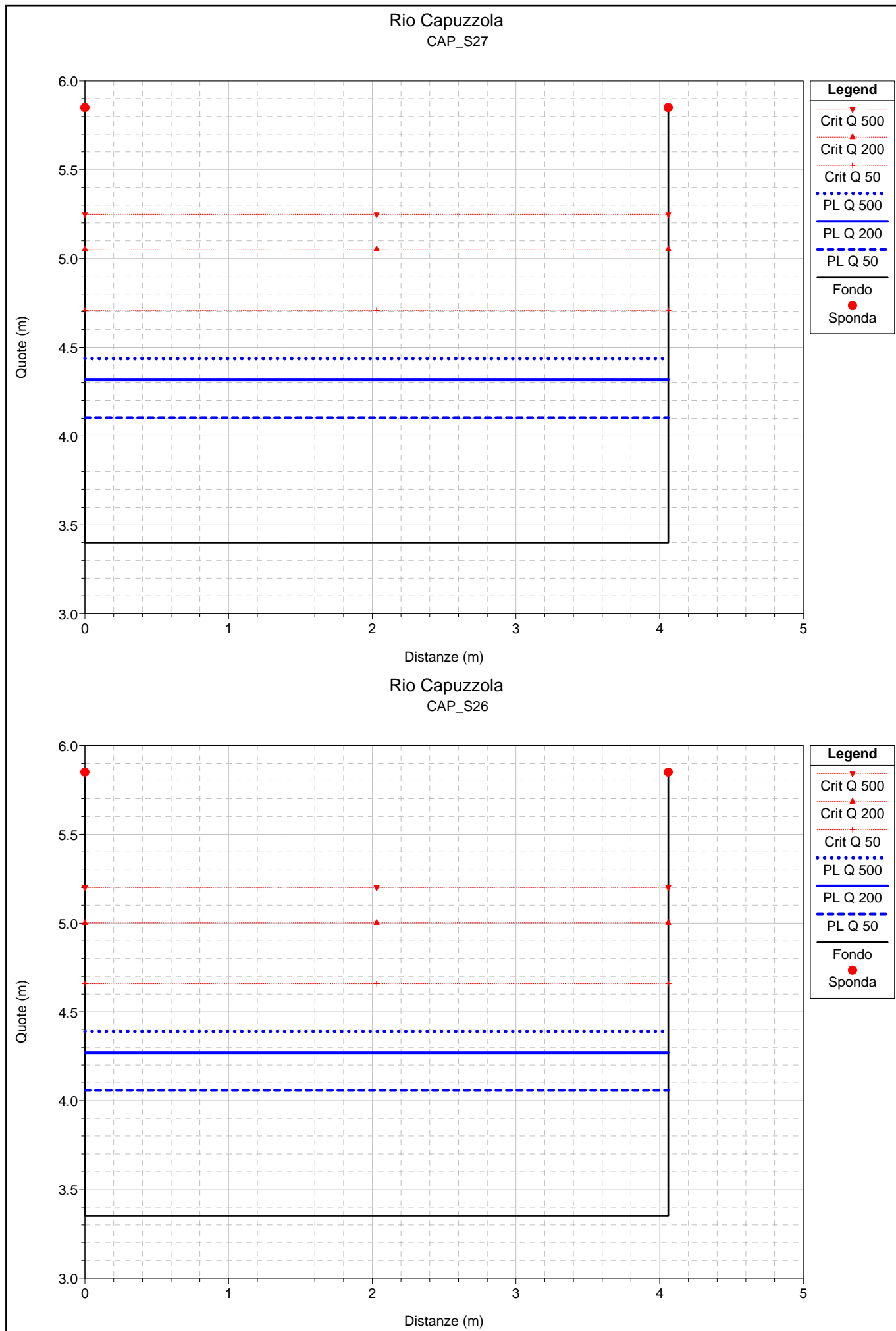


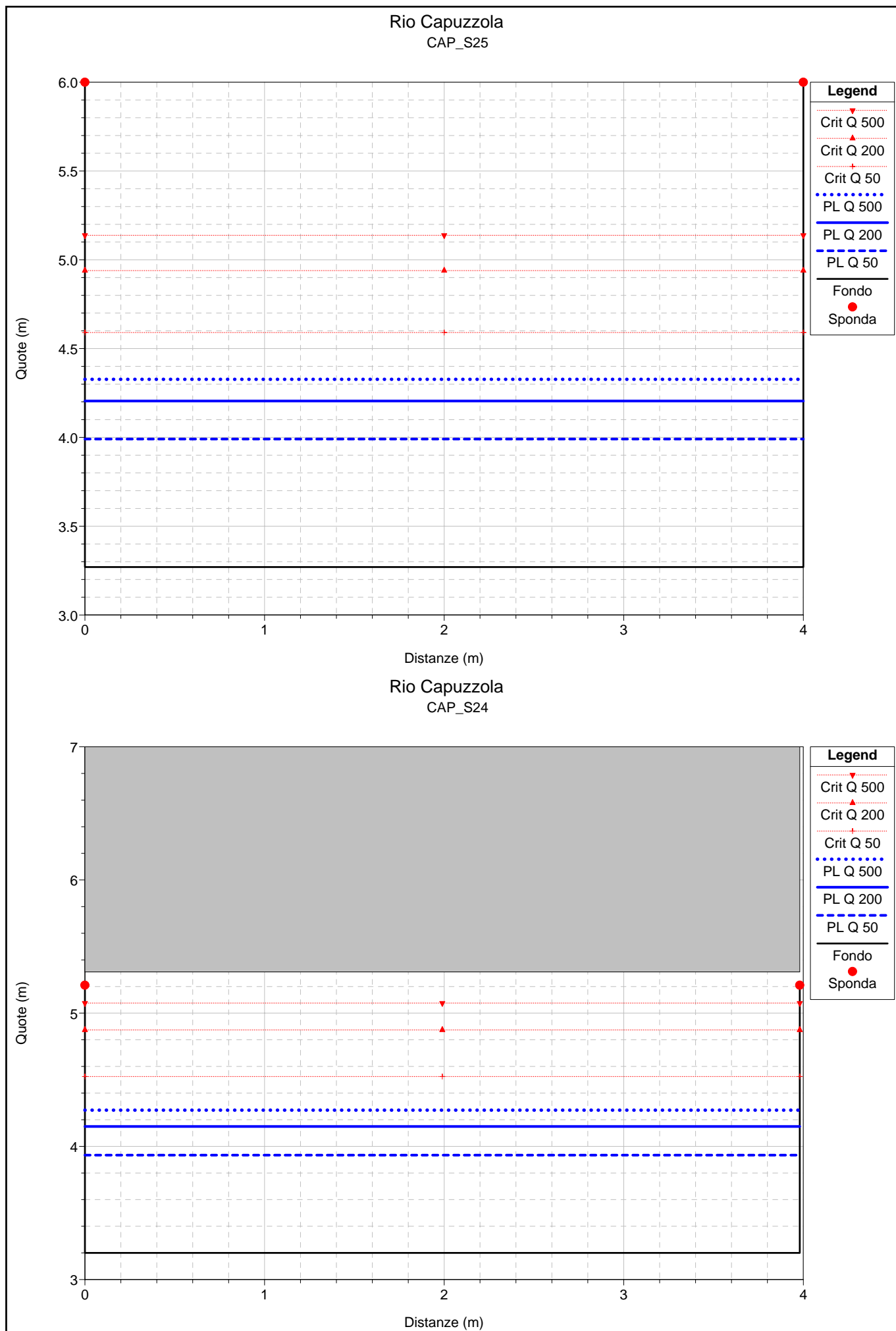


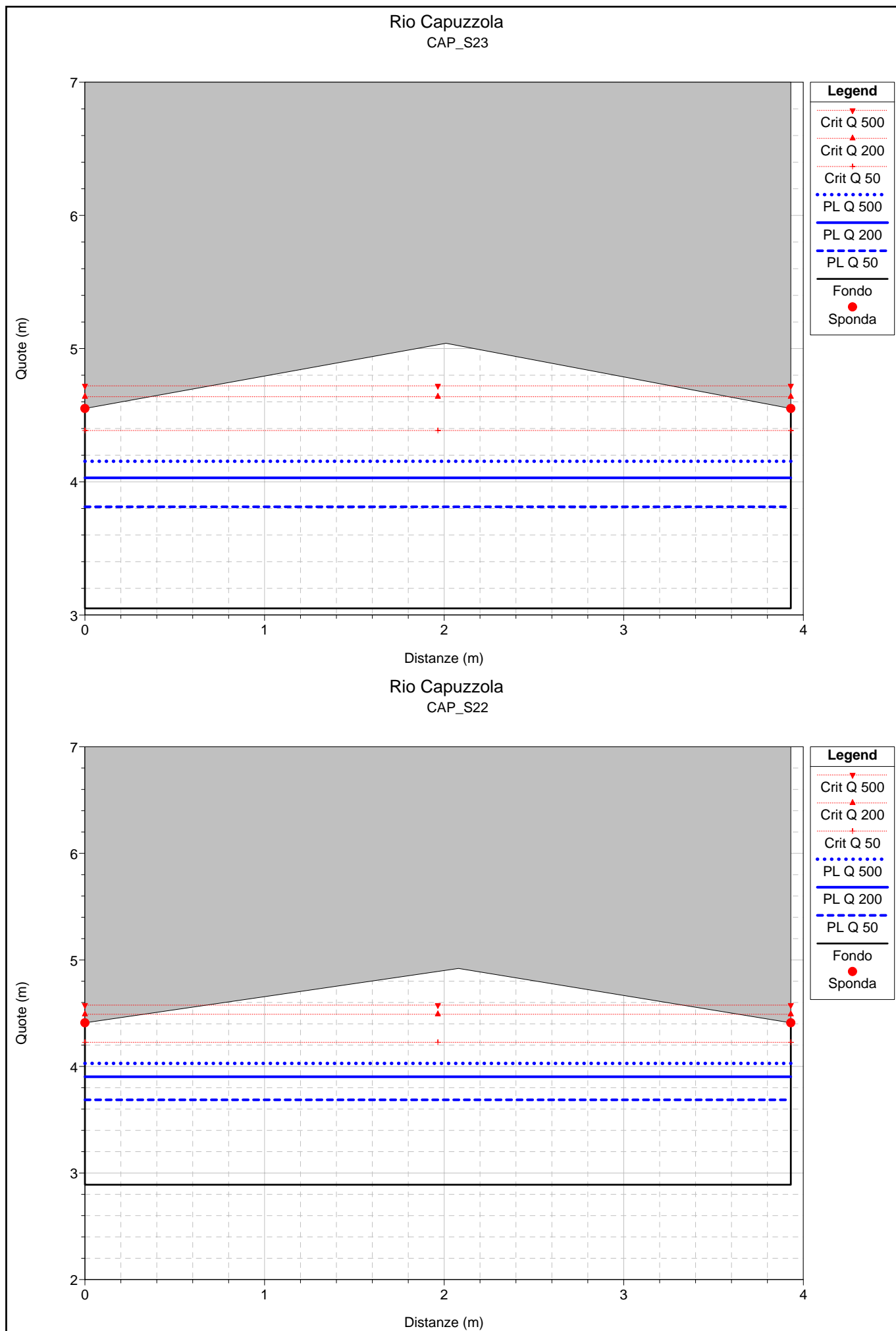


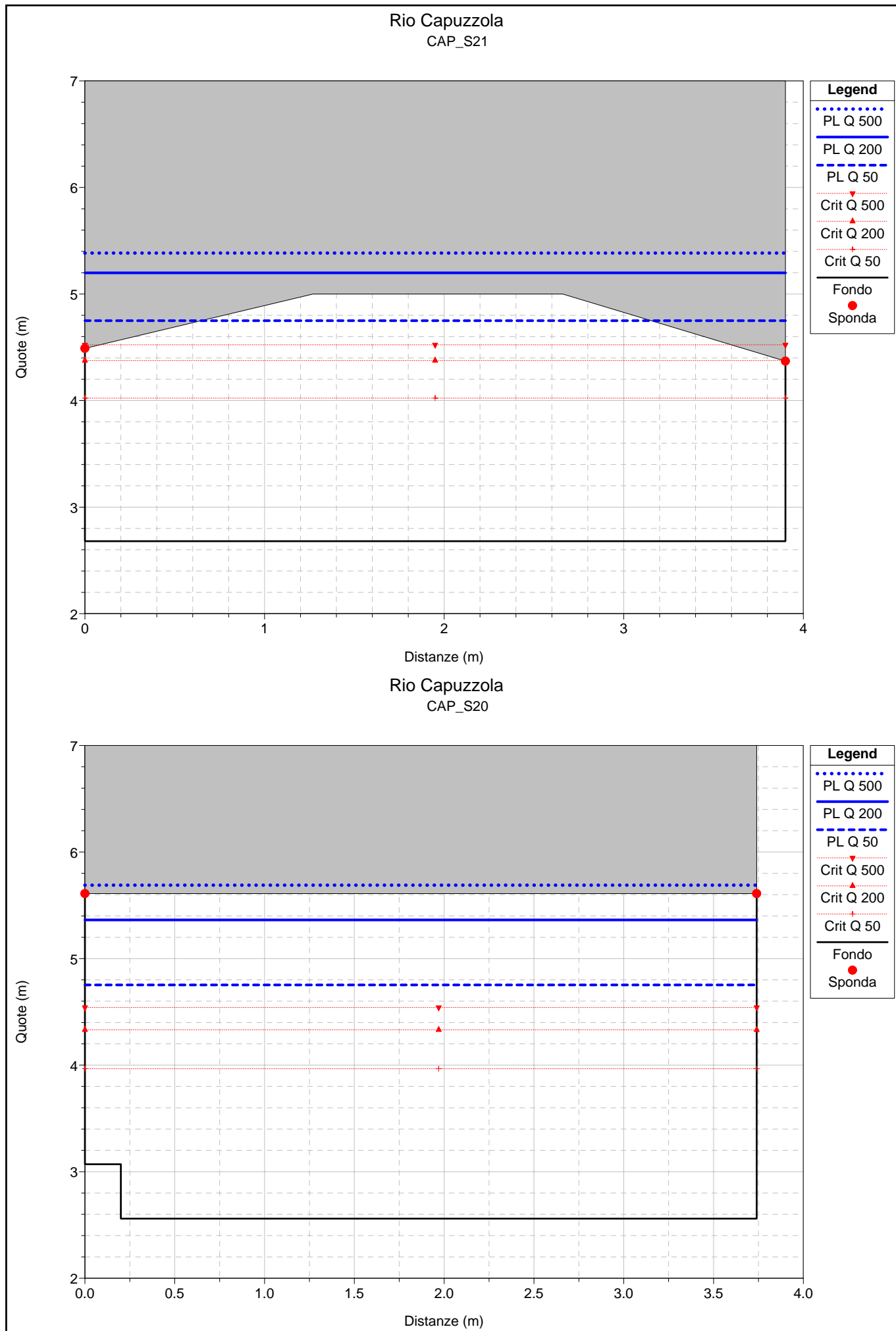




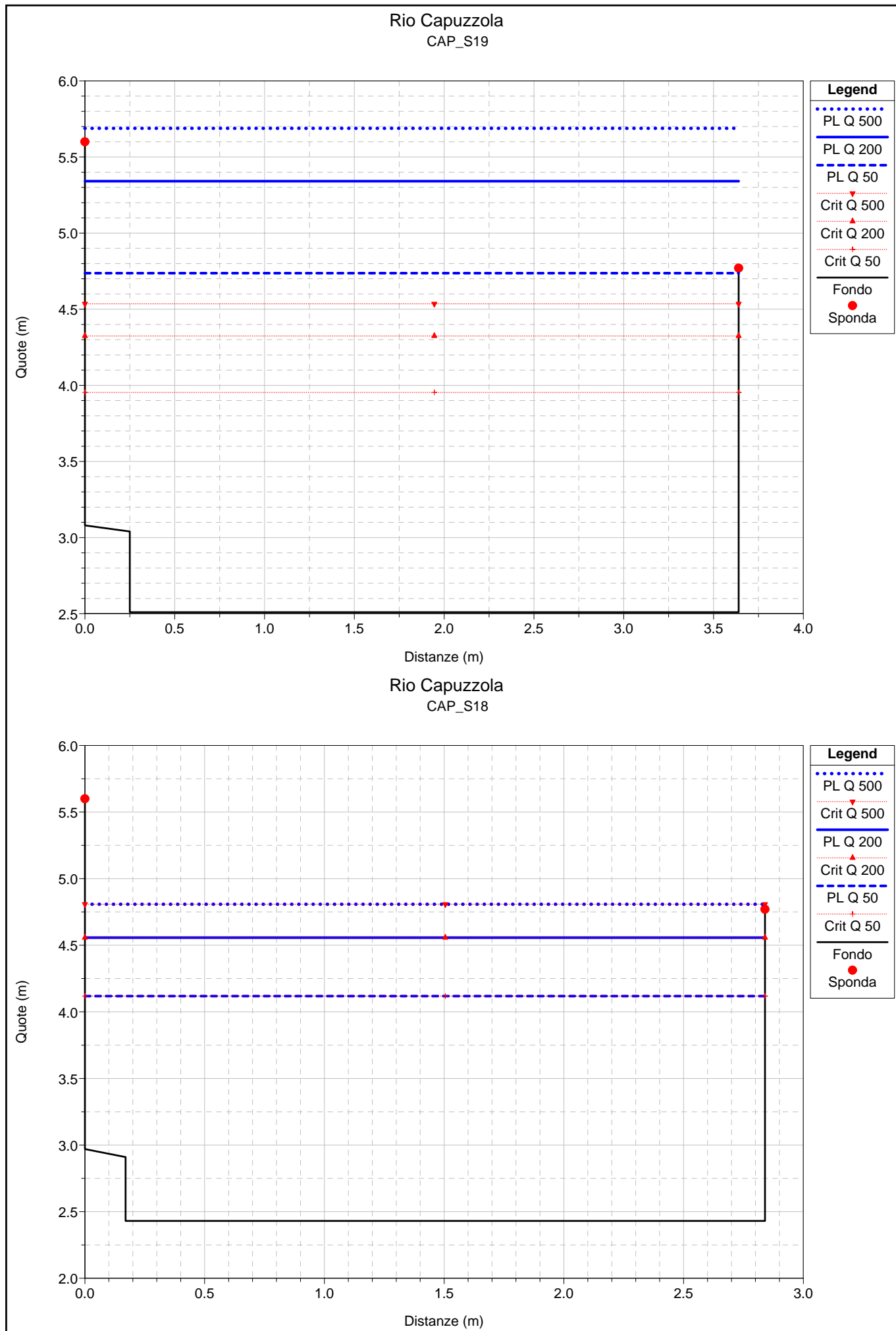


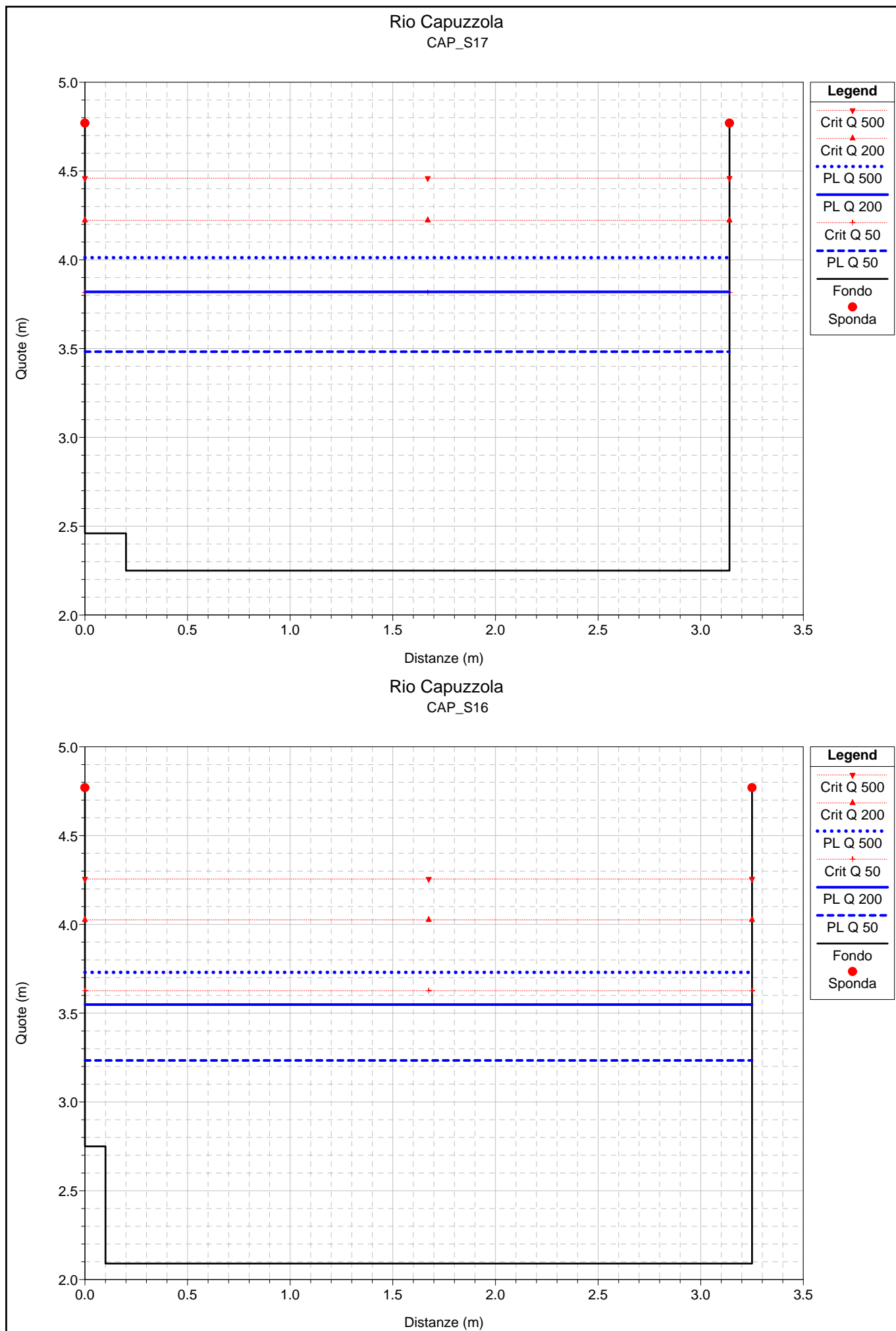


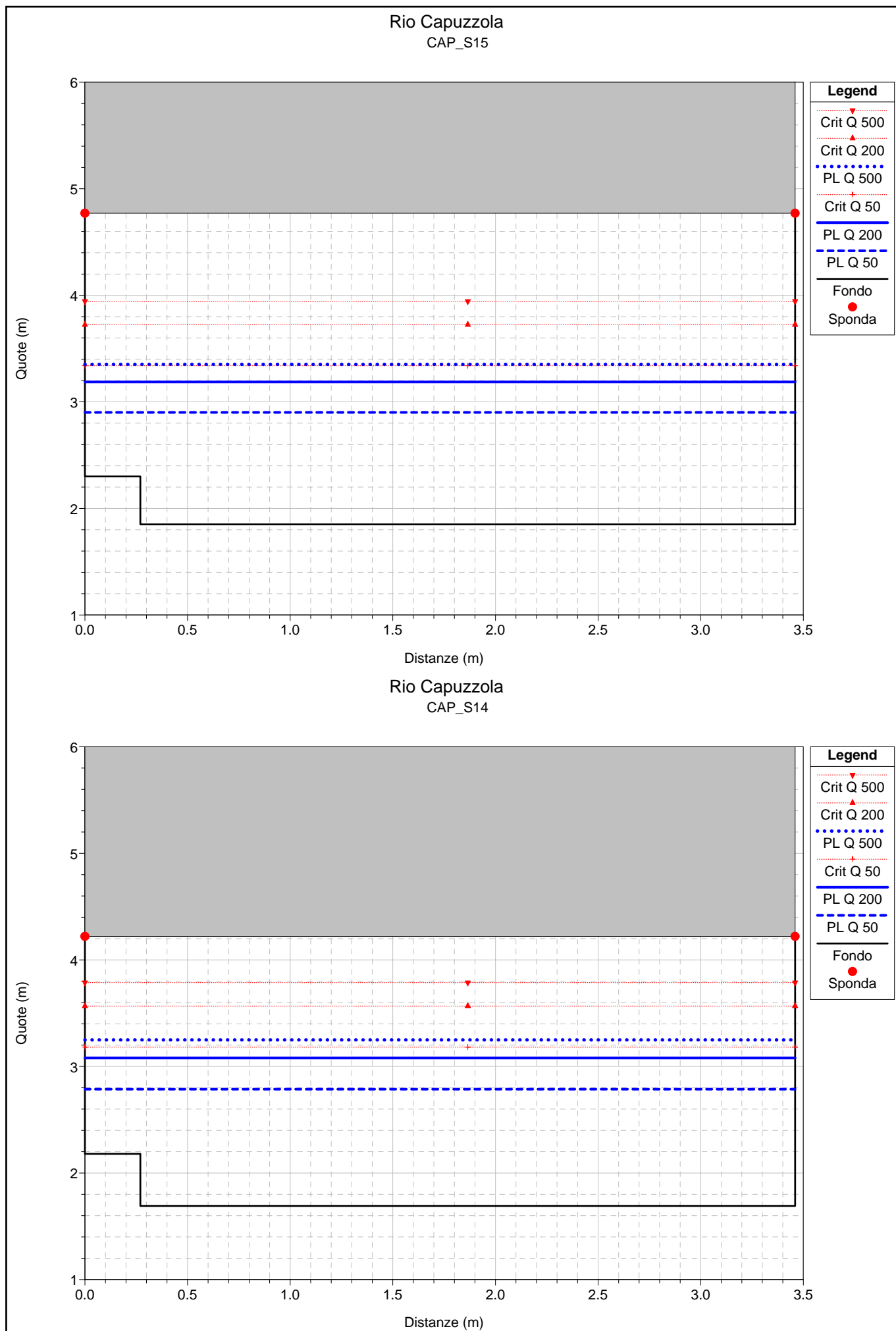


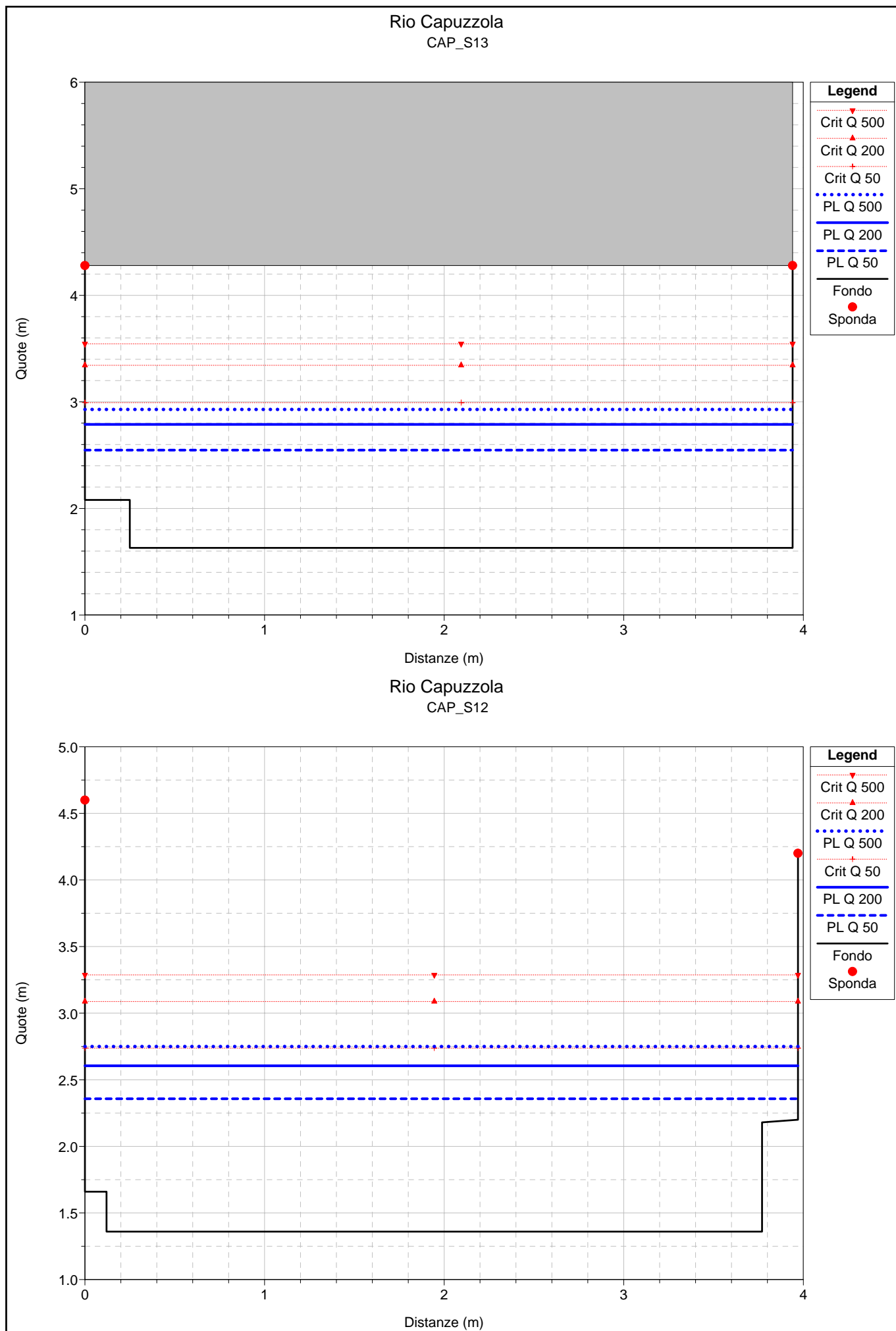


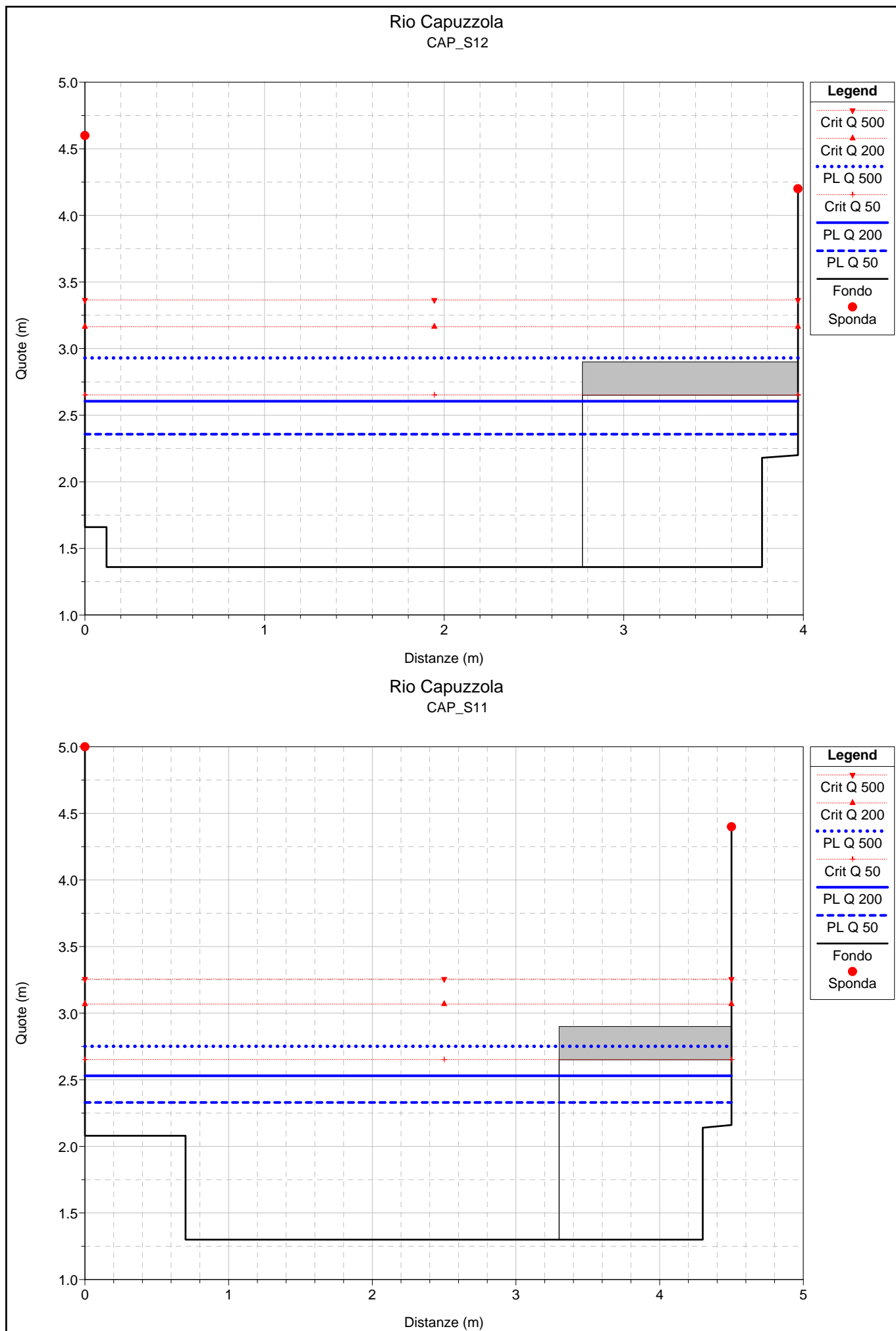


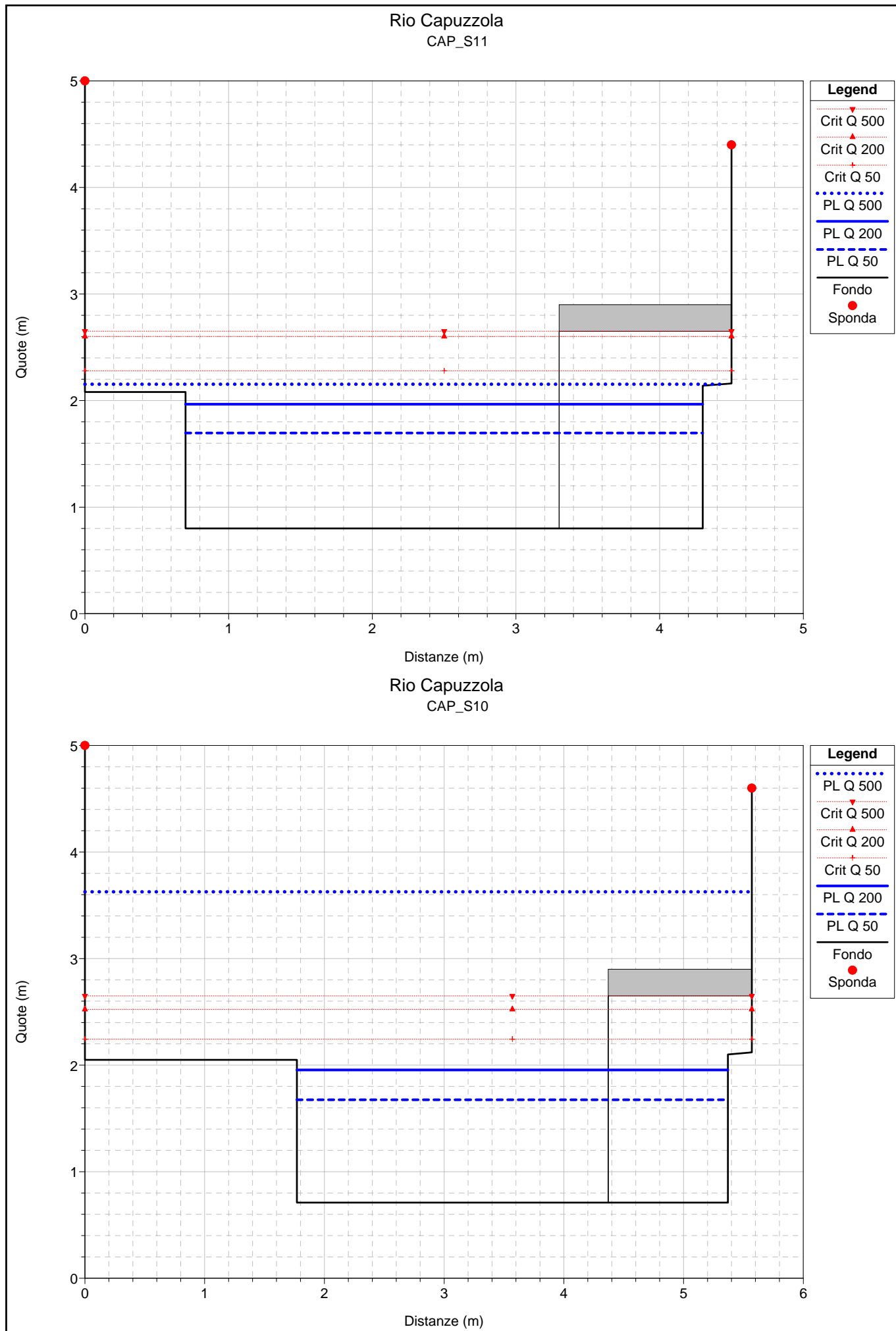


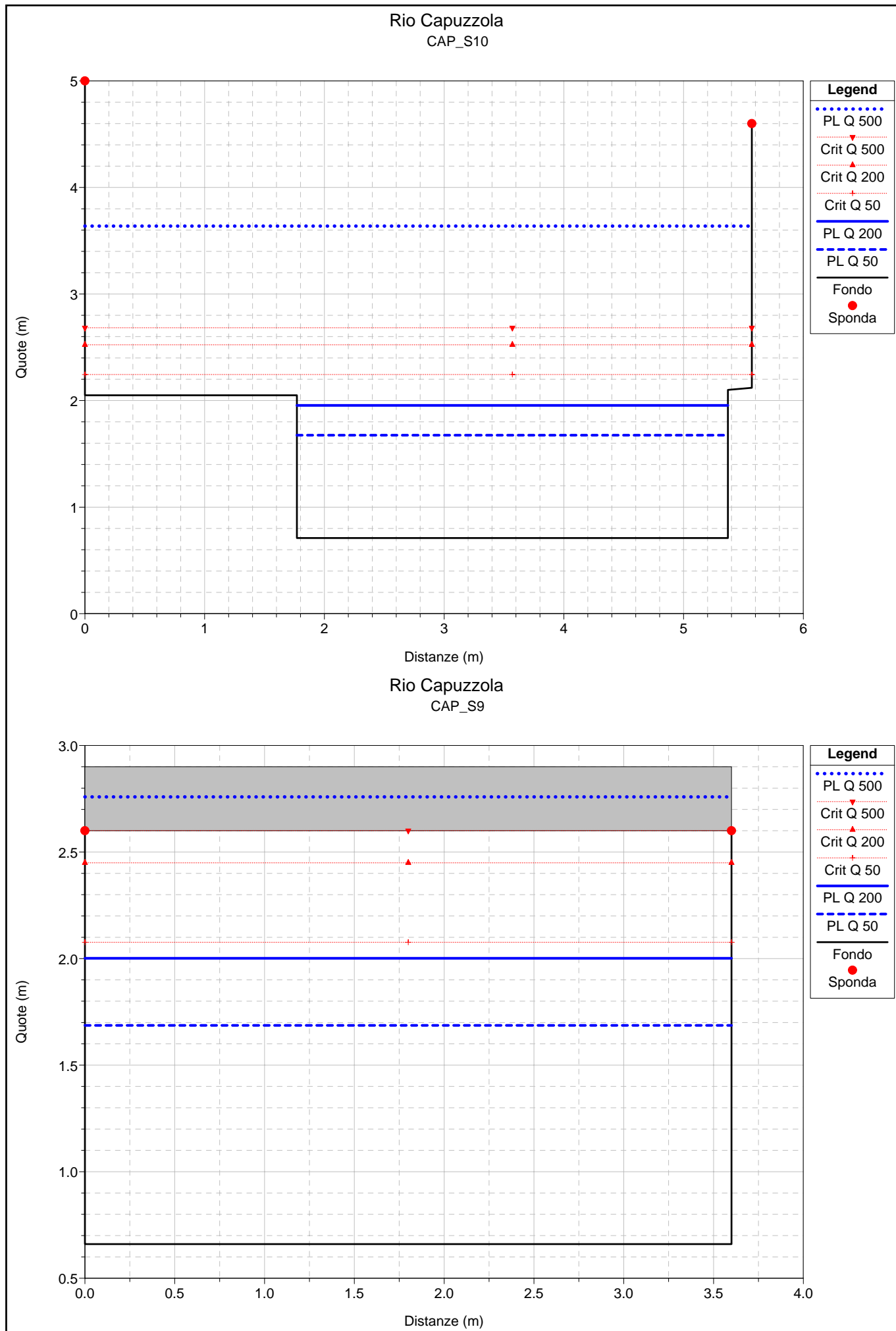


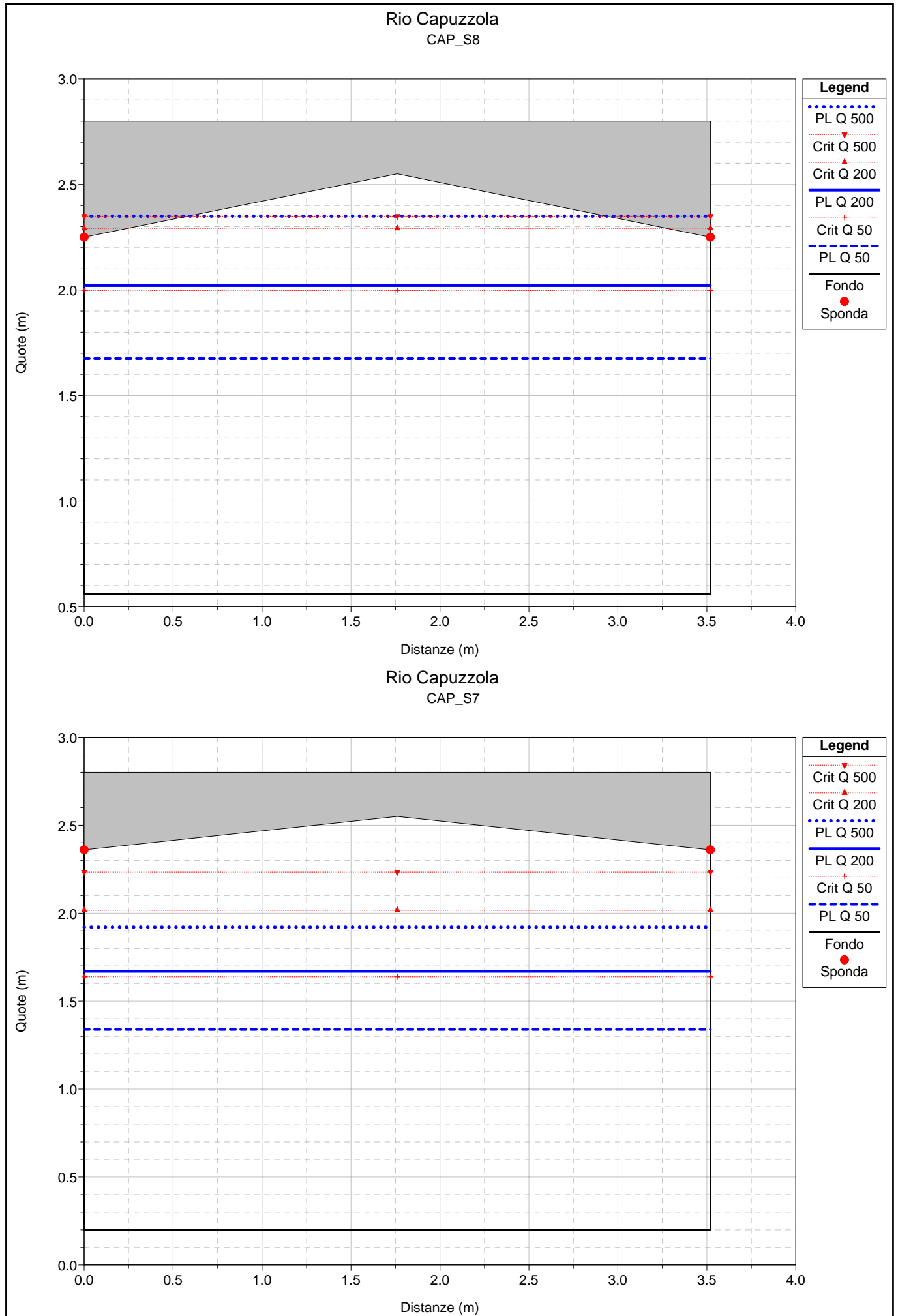




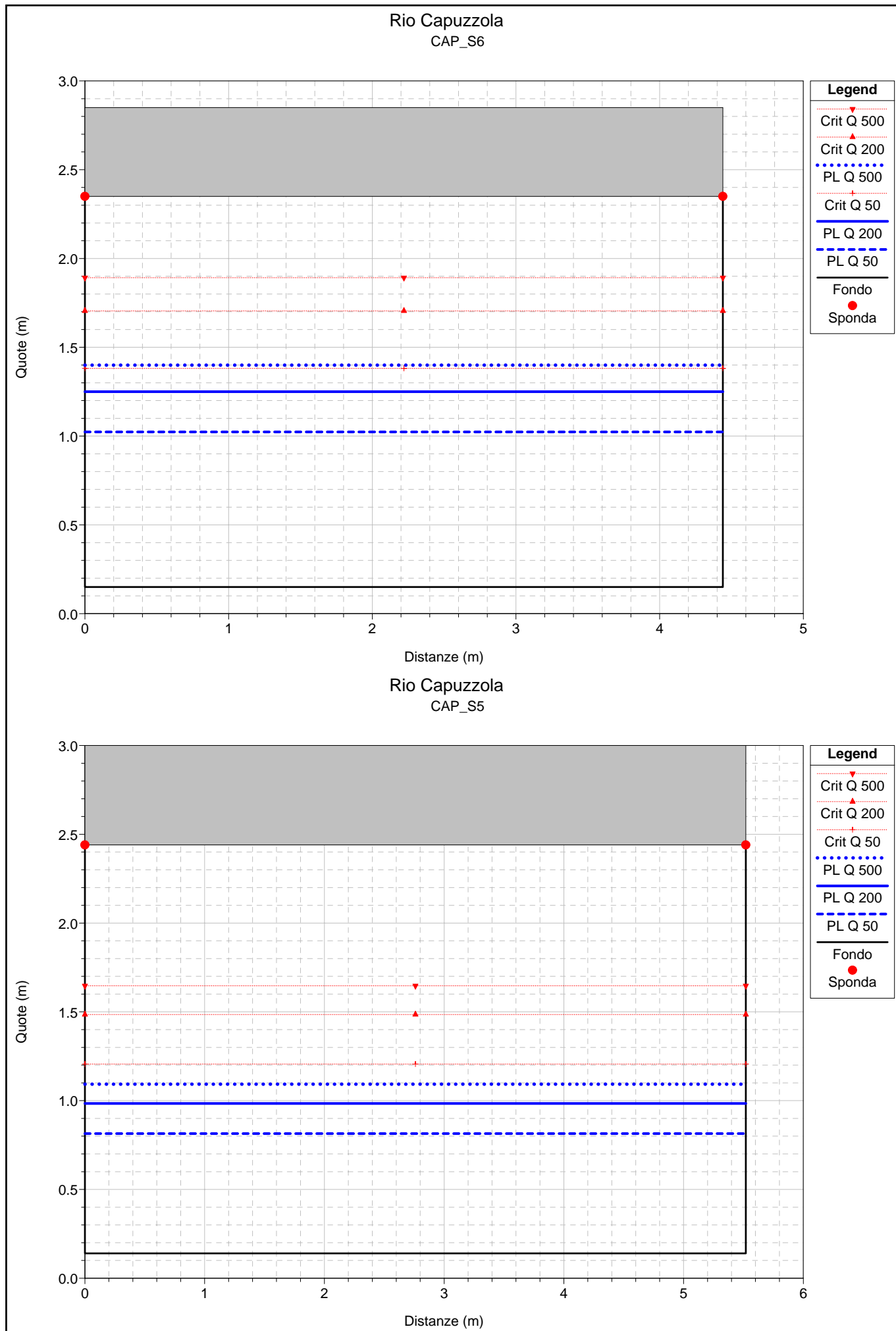


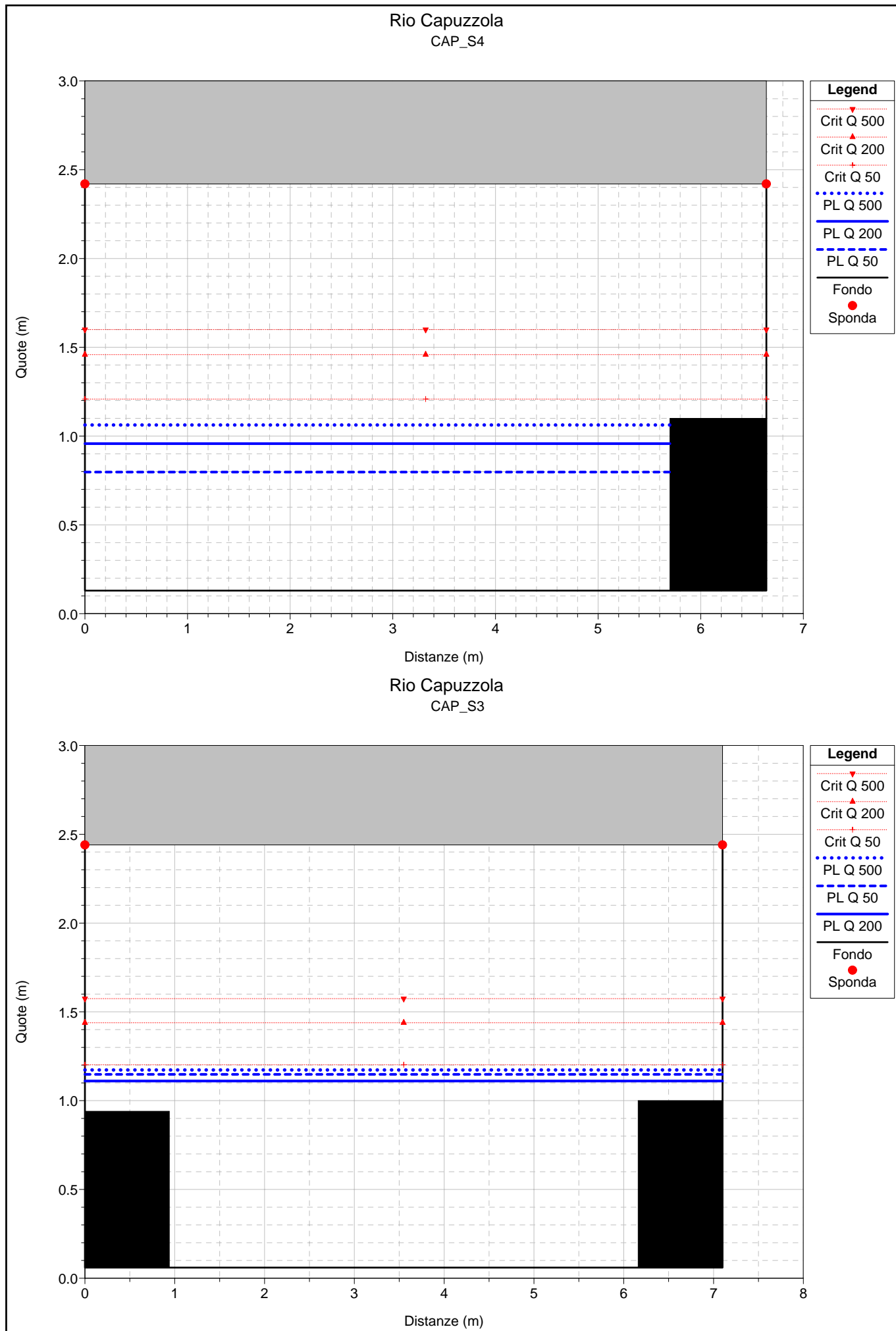


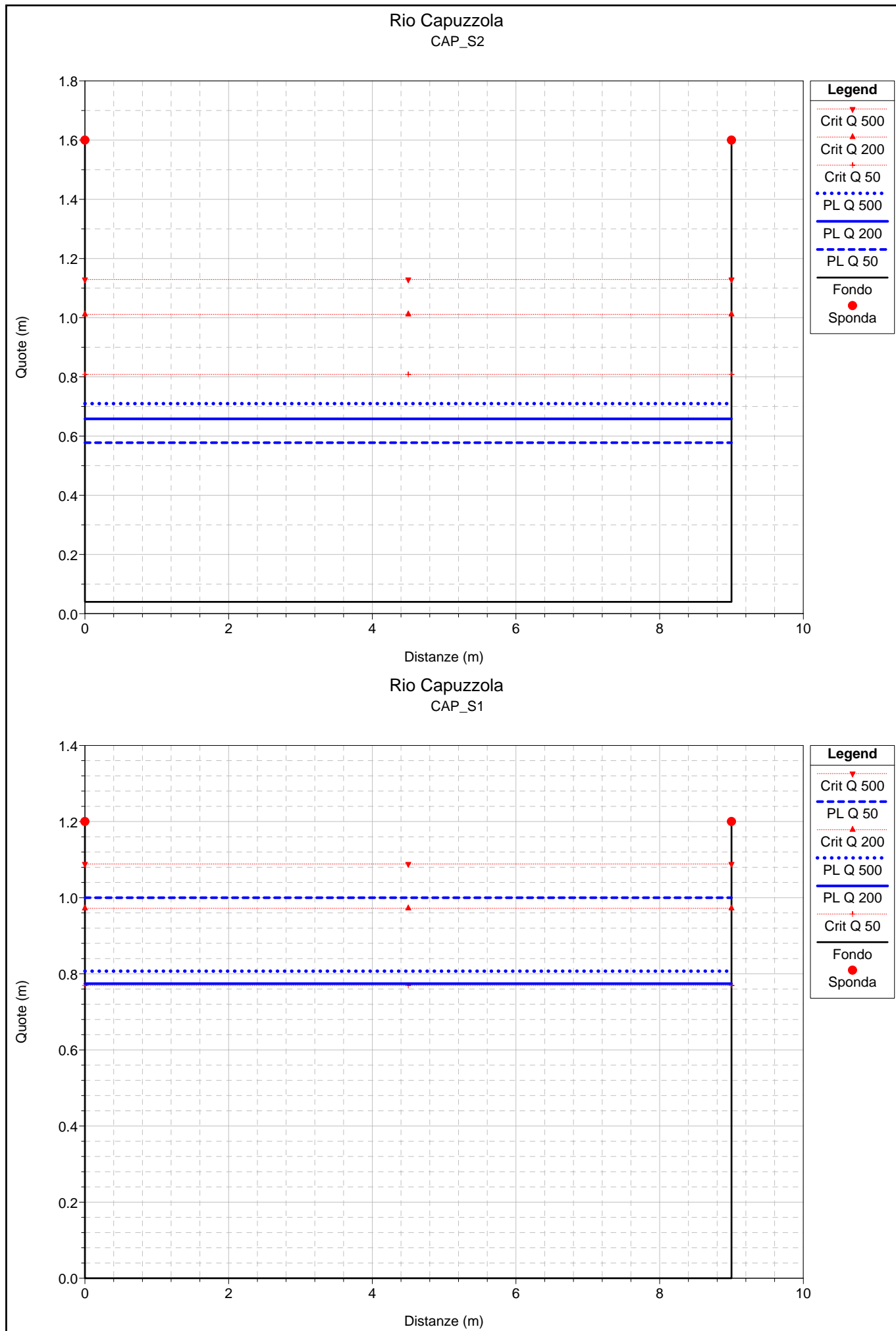


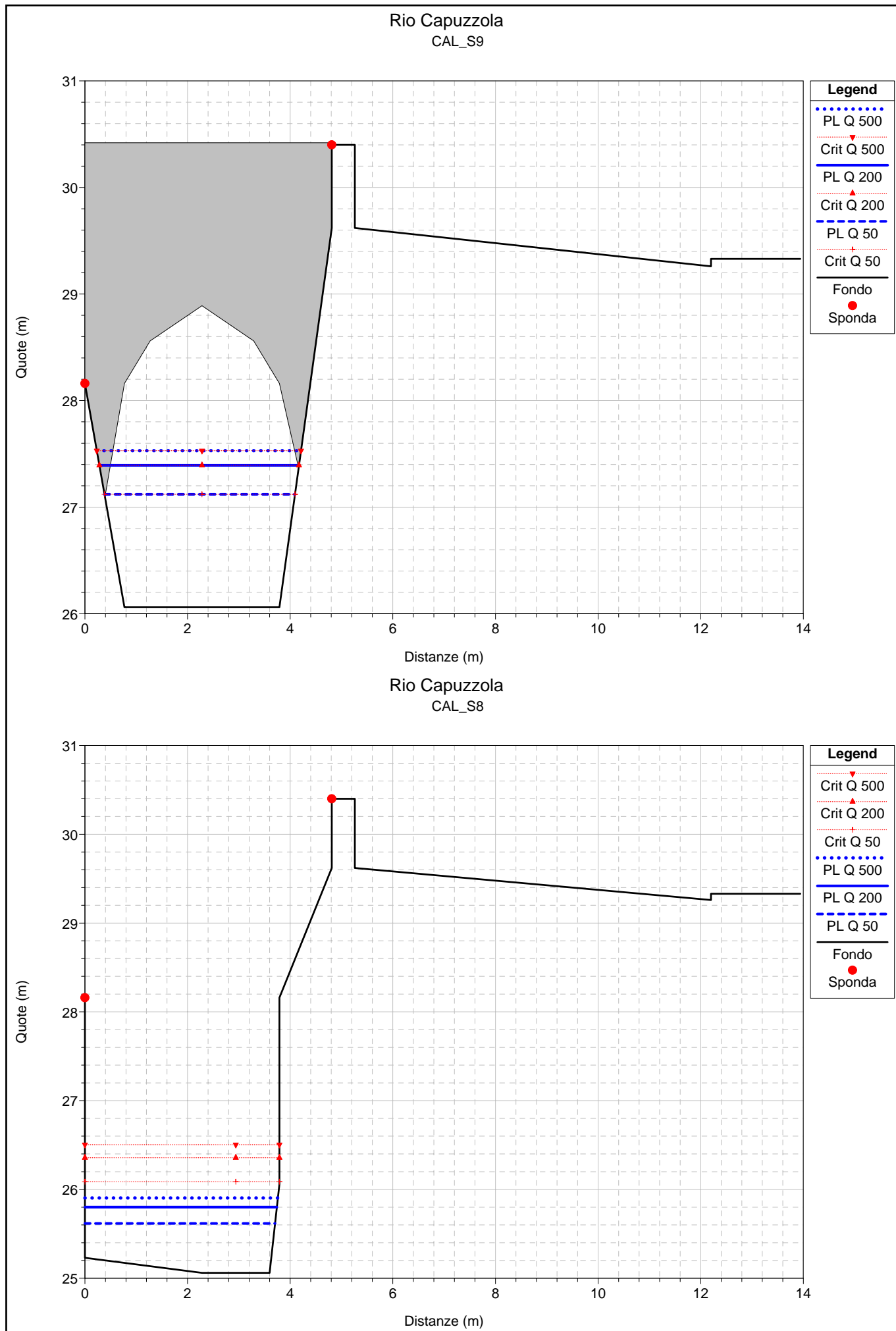


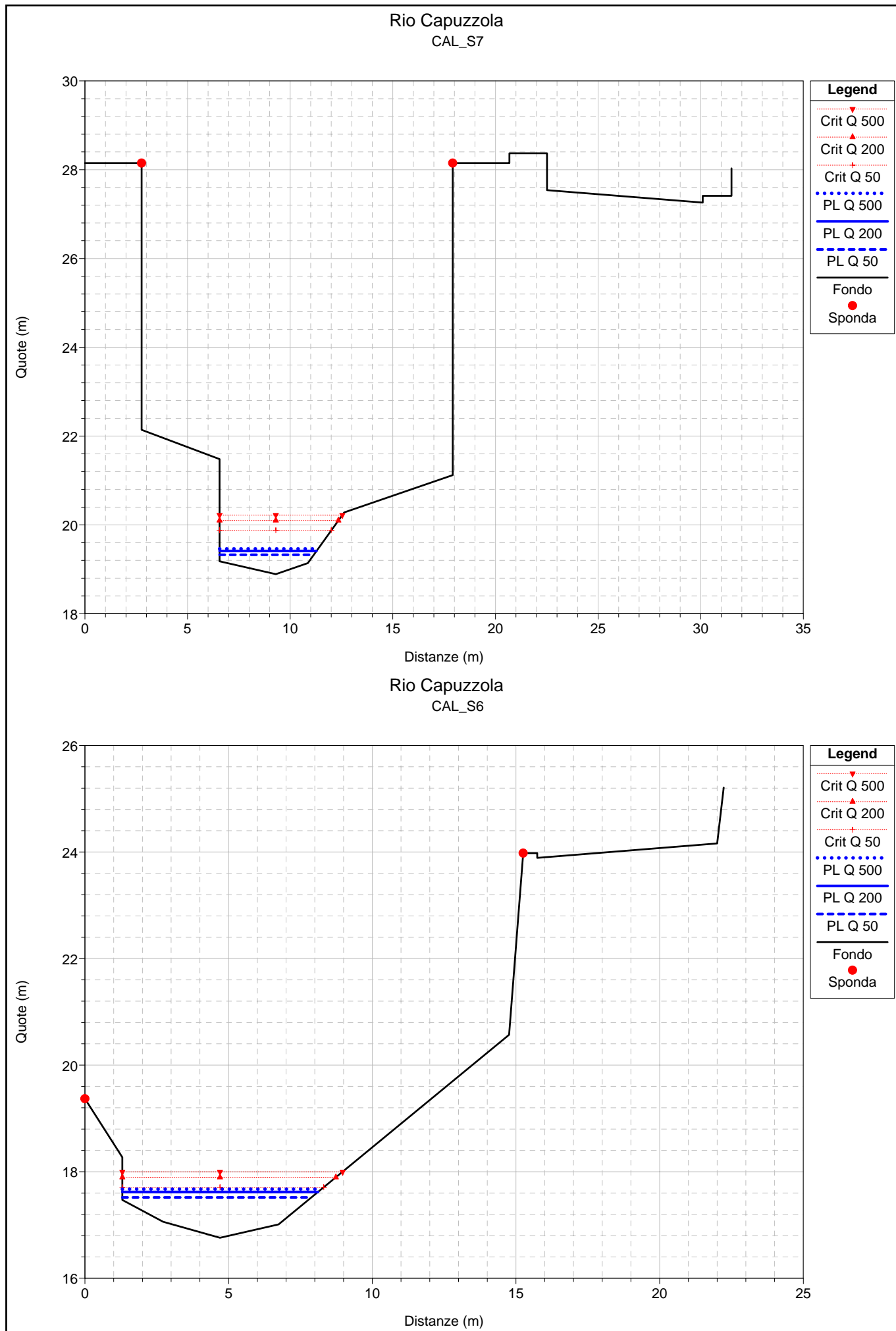


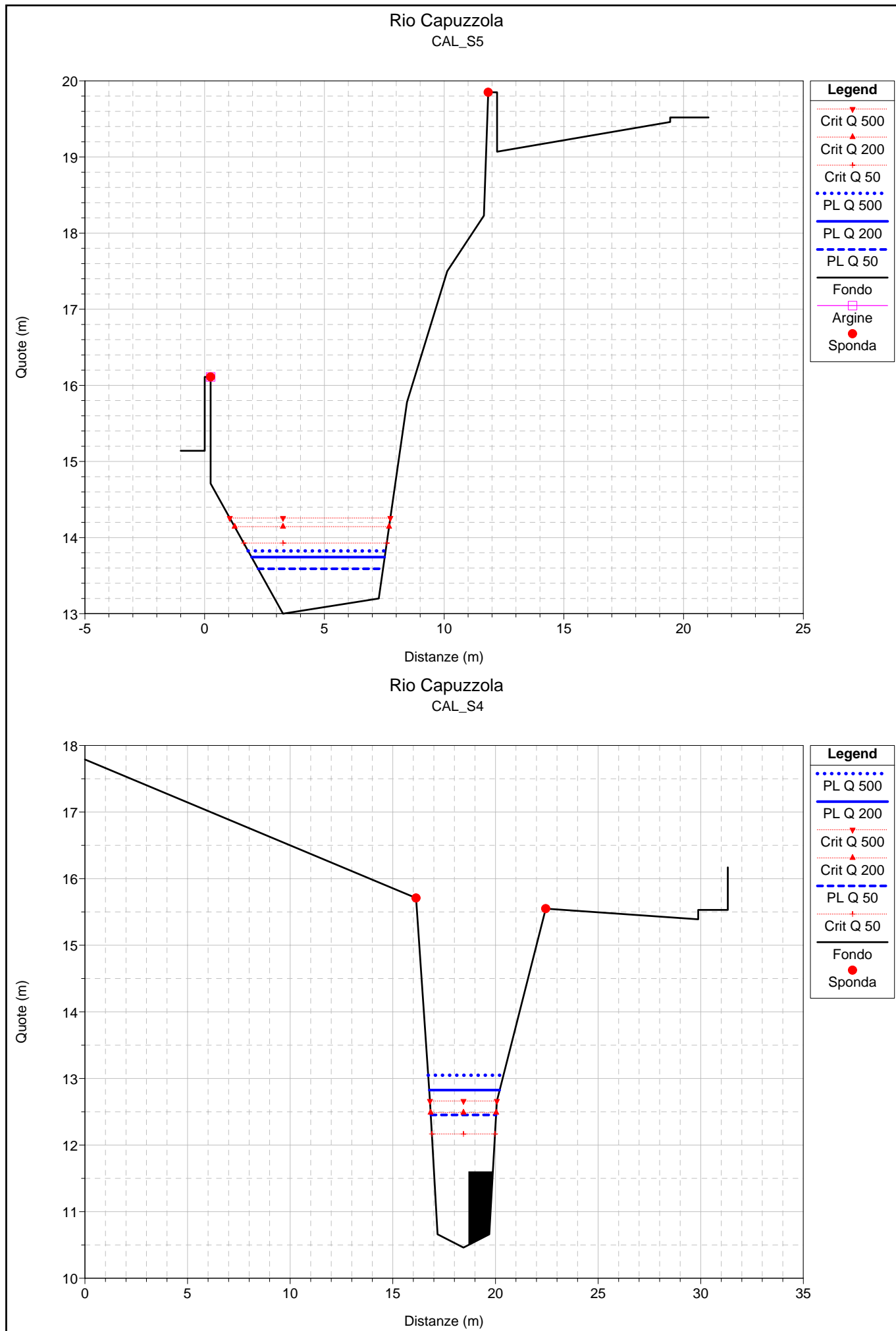


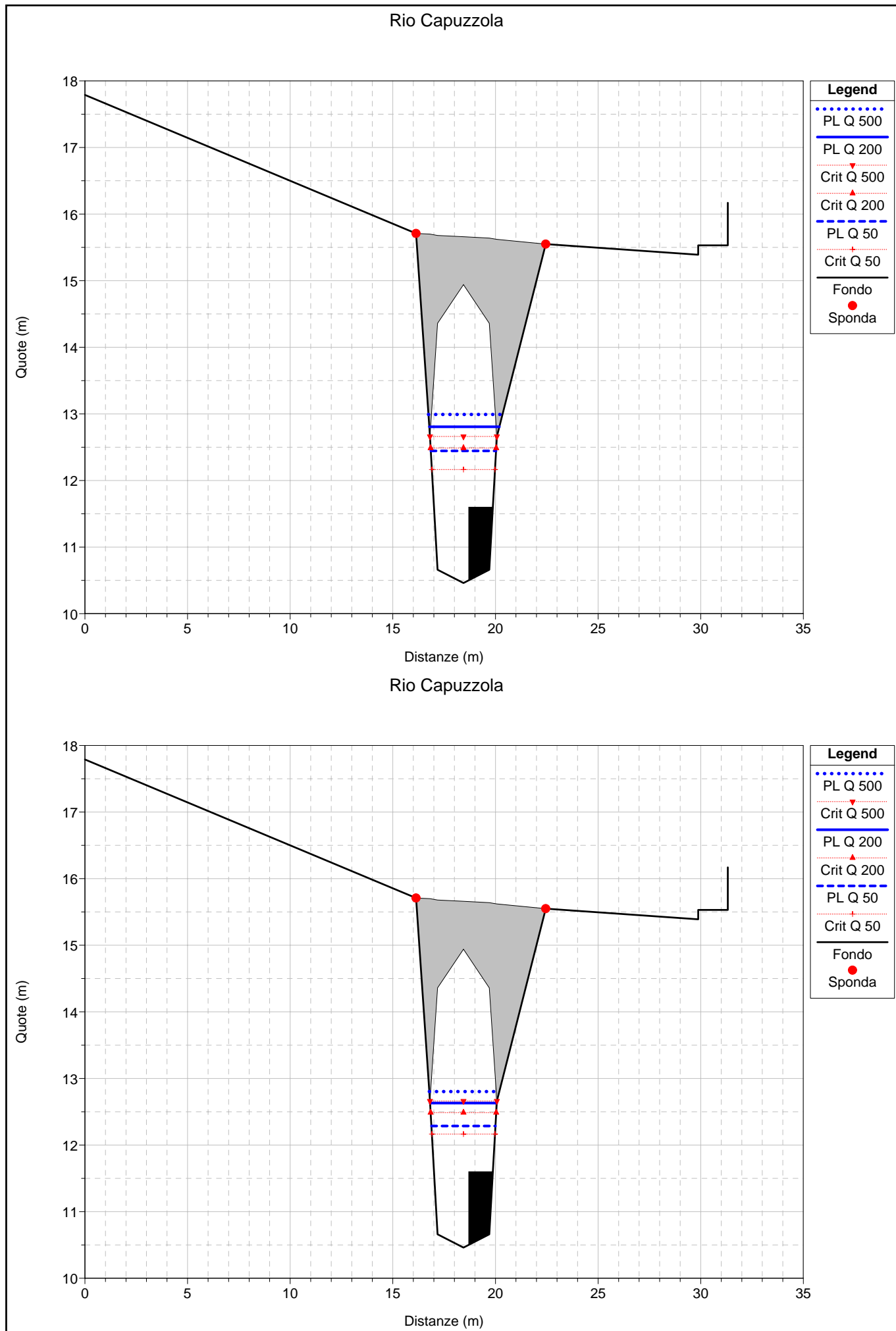


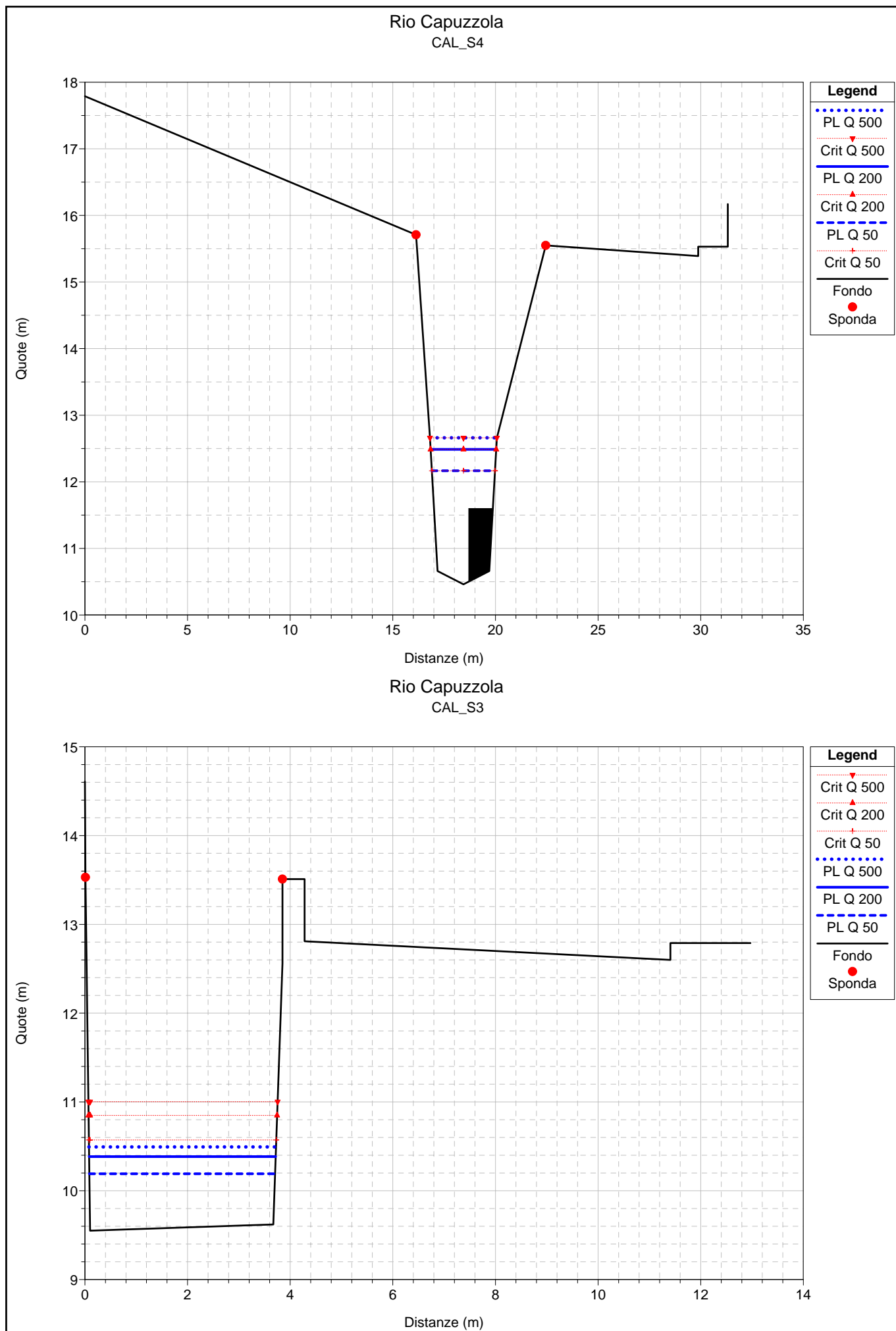




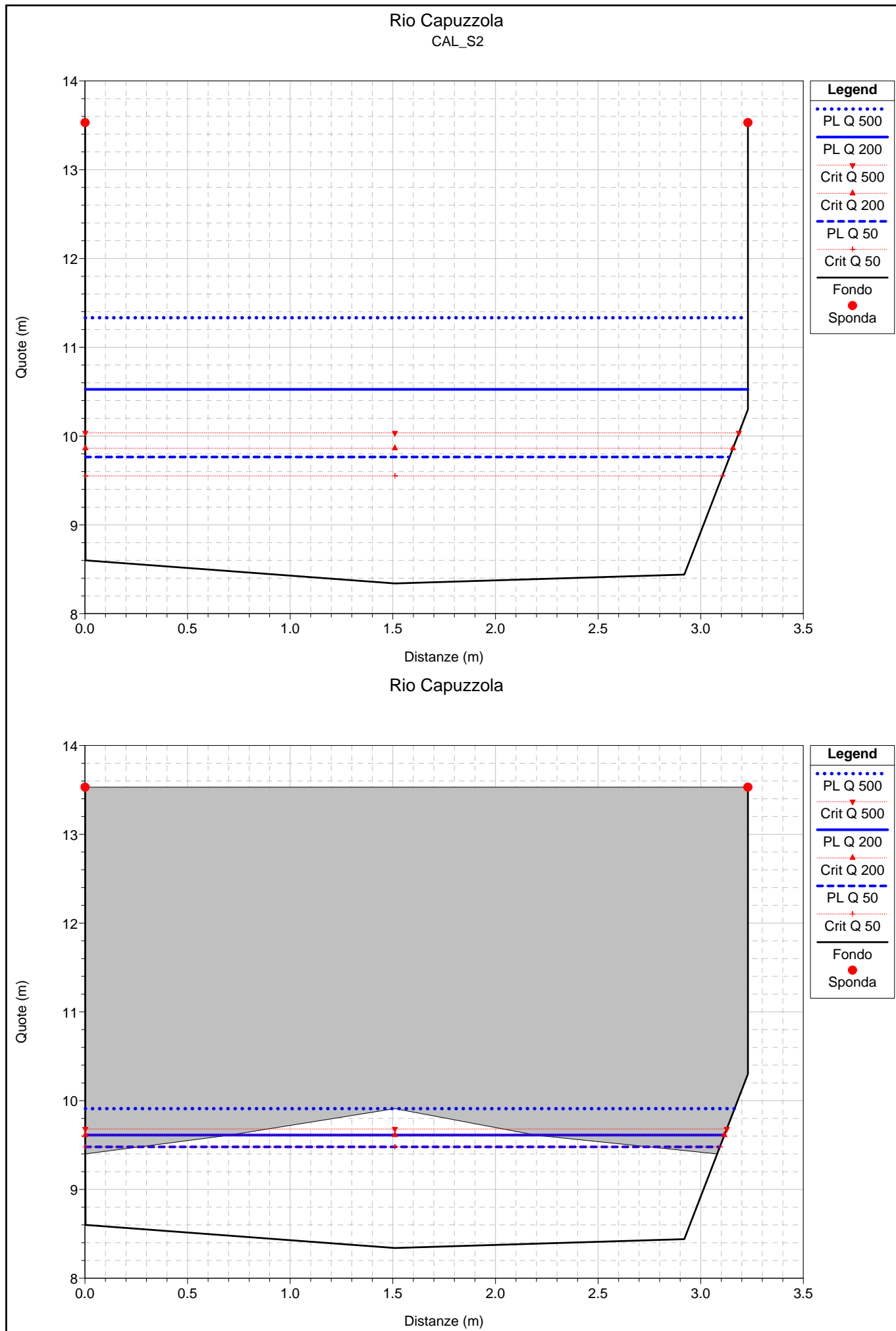


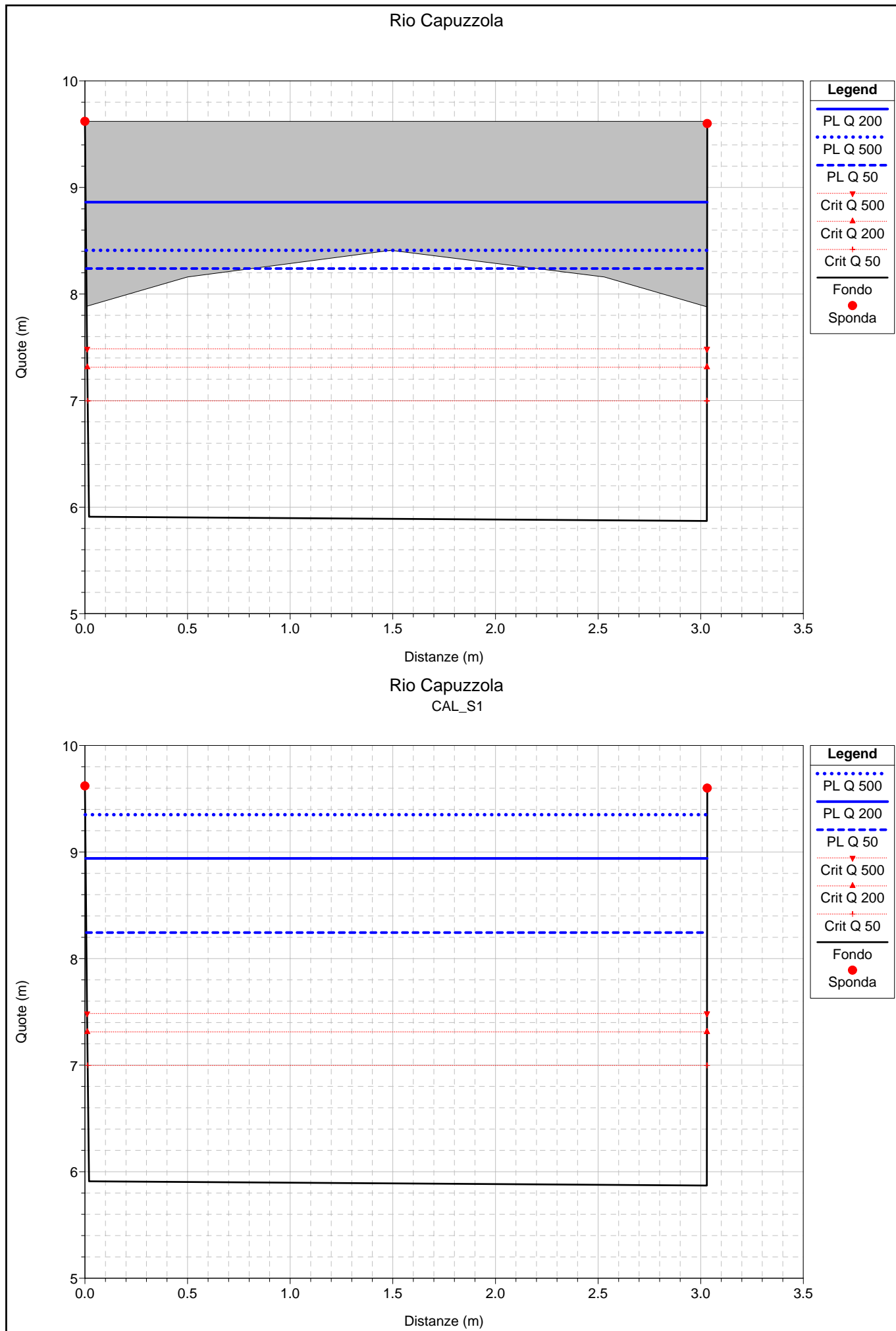












HEC-RAS Plan: PdB

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	
monte	100	Q 50	8.00	17.47	18.20	19.91	1.71	19.61	1.41	18.43	19.04	0.040004	4.05	1.97	2.70	1.51	
monte	100	Q 200	11.00	17.47	18.38	19.91	1.53	19.61	1.23	18.66	19.40	0.040063	4.45	2.47	2.70	1.49	
monte	100	Q 500	13.00	17.47	18.50	19.91	1.41	19.61	1.11	18.80	19.61	0.040051	4.67	2.79	2.70	1.47	
monte	57.8	CAP_S57	Q 50	8.00	13.47	14.74	15.91	1.17	15.61	0.87	14.43	15.02	0.008677	2.34	3.42	2.70	0.66
monte	57.8	CAP_S57	Q 200	11.00	13.47	15.07	15.91	0.84	15.61	0.54	14.66	15.40	0.008843	2.55	4.32	2.70	0.64
monte	57.8	CAP_S57	Q 500	13.00	13.47	15.27	15.91	0.64	15.61	0.34	14.80	15.64	0.009057	2.67	4.87	2.70	0.63
monte	57.5		Bridge														
monte	57.	CAP_S57	Q 50	8.00	13.47	14.43	15.91	1.48	15.61	1.18	14.43	14.92	0.018348	3.08	2.60	2.70	1.00
monte	57.	CAP_S57	Q 200	11.00	13.47	14.66	15.91	1.25	15.61	0.95	14.66	15.26	0.019254	3.41	3.22	2.70	1.00
monte	57.	CAP_S57	Q 500	13.00	13.47	14.80	15.91	1.11	15.61	0.81	14.80	15.47	0.020014	3.61	3.60	2.70	1.00
monte	56.8	CAP_S56m	Q 50	8.00	12.31	13.36	15.54	2.18	15.01	1.65	13.63	14.26	0.047321	4.20	1.90	2.82	1.63
monte	56.8	CAP_S56m	Q 200	11.00	12.31	13.53	15.54	2.01	15.01	1.48	13.84	14.61	0.048314	4.62	2.38	2.99	1.65
monte	56.8	CAP_S56m	Q 500	13.00	12.31	13.62	15.54	1.92	15.01	1.39	13.97	14.83	0.048309	4.86	2.68	2.99	1.64
monte	56.5		Bridge														
monte	56.	CAP_S56v	Q 50	8.00	12.31	13.77	15.54	1.77	15.01	1.24	13.63	14.11	0.012031	2.58	3.10	2.99	0.81
monte	56.	CAP_S56v	Q 200	11.00	12.31	14.01	15.54	1.53	15.01	1.00	13.84	14.43	0.012605	2.87	3.84	2.99	0.81
monte	56.	CAP_S56v	Q 500	13.00	12.31	14.17	15.54	1.37	15.01	0.84	13.97	14.63	0.012983	3.03	4.29	2.99	0.81
monte	55.	CAP_S55	Q 50	8.00	12.31	13.51	14.54	1.03	15.01	1.50	13.51	13.96	0.017468	2.97	2.69	3.00	1.00
monte	55.	CAP_S55	Q 200	11.00	12.31	13.73	14.54	0.81	15.01	1.28	13.73	14.28	0.018149	3.30	3.33	3.00	1.00
monte	55.	CAP_S55	Q 500	13.00	12.31	13.86	14.54	0.68	15.01	1.15	13.86	14.48	0.018631	3.49	3.72	3.00	1.00
monte	54.8	CAP_S54m	Q 50	8.00	12.21	12.90	14.18	1.28	14.12	1.22	13.08	13.58	0.033017	3.65	2.19	3.60	1.49
monte	54.8	CAP_S54m	Q 200	11.00	12.21	13.03	14.18	1.15	14.12	1.09	13.27	13.89	0.034521	4.11	2.68	3.60	1.52
monte	54.8	CAP_S54m	Q 500	13.00	12.21	13.12	14.18	1.06	14.12	1.00	13.39	14.09	0.035194	4.36	2.98	3.60	1.53
monte	54.5		Bridge														
monte	54.	CAP_S54v	Q 50	8.00	12.21	13.08	14.18	1.10	14.12	1.04	13.08	13.48	0.015013	2.80	2.86	3.60	1.00
monte	54.	CAP_S54v	Q 200	11.00	12.21	13.27	14.18	0.91	14.12	0.85	13.27	13.76	0.015289	3.10	3.55	3.60	1.00
monte	54.	CAP_S54v	Q 500	13.00	12.21	13.39	14.18	0.79	14.12	0.73	13.39	13.94	0.015637	3.28	3.96	3.60	1.00
monte	53.8	CAP_S53	Q 50	8.00	10.85	11.21	14.05	2.84	13.75	2.54	11.52	12.36	0.096389	4.75	1.68	4.70	2.53
monte	53.8	CAP_S53	Q 200	11.00	10.85	11.30	14.05	2.75	13.75	2.46	11.67	12.70	0.092235	5.26	2.09	4.70	2.52
monte	53.8	CAP_S53	Q 500	13.00	10.85	11.35	14.05	2.70	13.75	2.40	11.77	12.90	0.089245	5.52	2.35	4.70	2.49
monte	53.5		Bridge														
monte	53.	CAP_S53	Q 50	8.00	10.49	11.69	14.05	2.36	13.75	2.06	11.15	11.79	0.002462	1.42	5.64	4.70	0.41
monte	53.	CAP_S53	Q 200	11.00	10.49	11.90	14.05	2.15	13.75	1.85	11.31	12.04	0.002932	1.66	6.63	4.70	0.45
monte	53.	CAP_S53	Q 500	13.00	10.49	12.03	14.05	2.02	13.75	1.72	11.41	12.19	0.003201	1.80	7.23	4.70	0.46
monte	52.8	CAP_S52m	Q 50	8.00	10.49	11.69	14.27	2.58	13.42	1.73	11.14	11.79	0.002204	1.36	5.90	4.90	0.39
monte	52.8	CAP_S52m	Q 200	11.00	10.49	11.91	14.27	2.36	13.42	1.51	11.29	12.03	0.002614	1.59	6.94	4.90	0.43
monte	52.8	CAP_S52m	Q 500	13.00	10.49	12.04	14.27	2.23	13.42	1.38	11.38	12.19	0.002844	1.72	7.58	4.90	0.44

HEC-RAS Plan: PdB (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
monte	52.5		Bridge													
monte	52. CAP_S52v	Q 50	8.00	10.49	11.69	14.27	2.58	13.42	1.73	11.14	11.78	0.002241	1.36	5.86	4.90	0.40
monte	52. CAP_S52v	Q 200	11.00	10.49	11.90	14.27	2.37	13.42	1.52	11.29	12.03	0.002659	1.59	6.90	4.90	0.43
monte	52. CAP_S52v	Q 500	13.00	10.49	12.03	14.27	2.24	13.42	1.39	11.38	12.18	0.002893	1.73	7.53	4.90	0.44
monte	51. CAP_S51	Q 50	8.00	10.69	11.35	12.02	0.67	12.16	0.81	11.35	11.67	0.013960	2.53	3.16	4.80	1.00
monte	51. CAP_S51	Q 200	11.00	10.69	11.50	12.02	0.52	12.16	0.66	11.50	11.91	0.013958	2.82	3.90	4.80	1.00
monte	51. CAP_S51	Q 500	13.00	10.69	11.60	12.02	0.42	12.16	0.56	11.60	12.05	0.014021	2.99	4.35	4.80	1.00
monte	50. CAP_S50	Q 50	8.00	10.18	10.55	12.02	1.47	12.16	1.61	10.84	11.60	0.085620	4.55	1.76	4.80	2.40
monte	50. CAP_S50	Q 200	11.00	10.18	10.66	12.02	1.36	12.16	1.50	10.99	11.83	0.070672	4.80	2.29	4.80	2.22
monte	50. CAP_S50	Q 500	13.00	10.18	10.73	12.02	1.29	12.16	1.43	11.09	11.97	0.064288	4.94	2.63	4.80	2.13
monte	49. CAP_S49m	Q 50	8.00	9.86	10.72	11.71	0.99	11.66	0.94	10.52	10.91	0.006280	1.94	4.11	4.80	0.67
monte	49. CAP_S49m	Q 200	11.00	9.86	10.46	11.71	1.25	11.66	1.20	10.67	11.20	0.034565	3.81	2.89	4.80	1.57
monte	49. CAP_S49m	Q 500	13.00	9.86	10.53	11.71	1.18	11.66	1.13	10.77	11.37	0.035274	4.06	3.20	4.80	1.59
monte	48.5		Bridge													
monte	48. CAP_S49v	Q 50	8.00	9.86	10.52	11.71	1.19	11.66	1.14	10.52	10.84	0.013936	2.53	3.16	4.80	1.00
monte	48. CAP_S49v	Q 200	11.00	9.86	10.67	11.71	1.04	11.66	0.99	10.67	11.08	0.013969	2.82	3.90	4.80	1.00
monte	48. CAP_S49v	Q 500	13.00	9.86	10.77	11.71	0.94	11.66	0.89	10.77	11.22	0.013932	2.98	4.36	4.80	1.00
monte	47. CAP_S48	Q 50	8.00	9.32	9.79	11.15	1.36	11.15	1.36	10.02	10.57	0.049465	3.92	2.04	4.39	1.83
monte	47. CAP_S48	Q 200	11.00	9.32	9.92	11.15	1.23	11.15	1.23	10.18	10.82	0.043738	4.21	2.61	4.39	1.74
monte	47. CAP_S48	Q 500	13.00	9.32	10.00	11.15	1.15	11.15	1.15	10.28	10.97	0.040974	4.36	2.98	4.39	1.69
monte	46.1 CAP_S47	Q 50	8.00	9.08	9.65	10.78	1.13	10.78	1.13	9.75	10.09	0.021378	2.95	2.71	5.18	1.30
monte	46.1 CAP_S47	Q 200	11.00	9.08	9.75	10.78	1.03	10.78	1.03	9.90	10.35	0.024172	3.44	3.20	5.18	1.40
monte	46.1 CAP_S47	Q 500	13.00	9.08	9.80	10.78	0.98	10.78	0.98	9.99	10.50	0.025635	3.71	3.50	5.18	1.44
monte	46. CAP_S46	Q 50	8.00	8.58	8.91	10.48	1.57	10.48	1.57	9.21	10.02	0.101193	4.68	1.71	5.18	2.60
monte	46. CAP_S46	Q 200	11.00	8.58	9.01	10.48	1.47	10.48	1.47	9.35	10.27	0.085649	4.99	2.21	5.18	2.44
monte	46. CAP_S46	Q 500	13.00	8.58	9.06	10.48	1.42	10.48	1.42	9.44	10.43	0.080010	5.19	2.51	5.18	2.38
monte	45. CAP_S45	Q 50	8.00	8.48	8.89	10.86	1.97	10.86	1.97	9.12	9.66	0.054116	3.89	2.06	4.98	1.93
monte	45. CAP_S45	Q 200	11.00	8.48	8.99	10.86	1.87	10.86	1.87	9.27	9.94	0.052531	4.32	2.55	4.98	1.93
monte	45. CAP_S45	Q 500	13.00	8.48	9.05	10.86	1.81	10.86	1.81	9.37	10.11	0.052191	4.57	2.85	4.98	1.93
monte	44. CAP_S44	Q 50	8.00	8.45	9.09	10.70	1.61	10.70	1.61	9.09	9.41	0.013944	2.51	3.19	5.00	1.00
monte	44. CAP_S44	Q 200	11.00	8.45	9.24	10.70	1.46	10.70	1.46	9.24	9.64	0.013829	2.79	3.95	5.00	1.00
monte	44. CAP_S44	Q 500	13.00	8.45	9.33	10.70	1.37	10.70	1.37	9.33	9.77	0.013738	2.94	4.42	5.00	1.00
monte	43. CAP_S43	Q 50	8.00	7.78	8.12	11.00	2.88	11.00	2.88	8.42	9.25	0.100369	4.72	1.70	5.00	2.59
monte	43. CAP_S43	Q 200	11.00	7.78	8.22	11.00	2.78	11.00	2.78	8.57	9.48	0.081719	4.97	2.21	5.00	2.38
monte	43. CAP_S43	Q 500	13.00	7.78	8.43	11.00	1.57	11.00	1.57	8.66	9.56	0.002250	1.58	8.25	5.00	0.39
monte	42. CAP_S42	Q 50	8.00	6.77	8.32	11.00	2.68	10.30	1.98	7.41	8.37	0.001025	1.03	7.73	5.00	0.27
monte	42. CAP_S42	Q 200	11.00	6.77	9.04	11.00	1.96	10.30	1.26	7.56	9.09	0.000671	0.97	11.35	5.00	0.21

HEC-RAS Plan: PdB (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
monte	42. CAP_S42	Q 500	13.00	6.77	9.46	11.00	1.54	10.30	0.84	7.65	9.51	0.000595	0.97	13.45	5.00	0.19
monte	41. CAP_S41	Q 50	8.00	6.36	8.33	9.60	1.27	9.42	1.09	6.90	8.35	0.000266	0.62	12.83	6.50	0.14
monte	41. CAP_S41	Q 200	11.00	6.36	9.05	9.60	0.55	9.42	0.37	7.02	9.07	0.000212	0.63	17.51	6.50	0.12
monte	41. CAP_S41	Q 500	13.00	6.36	9.47	9.60	0.13	9.42	-0.05	7.10	9.50	0.000243	0.64	20.19	4.54	0.12
valle	39. CAP_S39	Q 50	19.00	6.29	8.29	9.60	1.31	9.40	1.11	7.08	8.35	0.000710	1.10	17.35	8.69	0.25
valle	39. CAP_S39	Q 200	27.00	6.29	9.00	9.60	0.60	9.40	0.40	7.28	9.07	0.000596	1.15	23.56	8.70	0.22
valle	39. CAP_S39	Q 500	32.00	6.29	9.42	9.60	0.18	9.40	-0.02	7.40	9.49	0.000601	1.18	27.18	7.90	0.21
valle	38. CAP_S38	Q 50	19.00	6.20	8.23	9.50	1.27	9.35	1.12	7.17	8.34	0.001445	1.46	12.97	6.39	0.33
valle	38. CAP_S38	Q 200	27.00	6.20	8.94	9.50	0.56	9.35	0.41	7.42	9.06	0.001275	1.54	17.50	6.40	0.30
valle	38. CAP_S38	Q 500	32.00	6.20	9.35	9.50	0.15	9.35	0.00	7.57	9.48	0.001225	1.59	20.15	6.40	0.29
valle	37.1 CAP_S37	Q 50	19.00	5.95	8.18	9.38	1.20	9.36	1.18	7.09	8.32	0.002125	1.71	11.10	4.99	0.37
valle	37.1 CAP_S37	Q 200	27.00	5.95	8.87	9.38	0.51	9.36	0.49	7.39	9.04	0.002083	1.85	14.56	5.00	0.35
valle	37.1 CAP_S37	Q 500	32.00	5.95	9.27	9.38	0.11	9.36	0.09	7.56	9.46	0.002086	1.93	16.59	5.00	0.34
valle	37. CAP_S37	Q 50	19.00	5.77	8.19	9.38	1.19	9.36	1.17	6.91	8.32	0.001692	1.57	12.07	4.99	0.32
valle	37. CAP_S37	Q 200	27.00	5.77	8.88	9.38	0.50	9.36	0.48	7.21	9.04	0.001760	1.74	15.53	5.00	0.31
valle	37. CAP_S37	Q 500	32.00	5.77	9.29	9.38	0.09	9.36	0.07	7.38	9.46	0.001804	1.82	17.56	5.00	0.31
valle	36. CAP_S36	Q 50	19.00	5.63	8.13	9.10	0.98	8.90	0.77	6.93	8.30	0.002665	1.86	10.21	4.09	0.38
valle	36. CAP_S36	Q 200	27.00	5.63	8.80	9.10	0.30	8.90	0.10	7.28	9.02	0.002916	2.08	12.97	4.10	0.37
valle	36. CAP_S36	Q 500	32.00	5.63	9.16	9.10	-0.06	8.90	-0.26	7.47	9.44	0.005383	2.32	13.79		0.39
valle	35. CAP_S35	Q 50	19.00	5.48	7.97	9.50	1.53	9.53	1.56	7.01	8.26	0.005292	2.38	7.97	3.20	0.48
valle	35. CAP_S35	Q 200	27.00	5.48	8.60	9.50	0.90	9.53	0.93	7.42	8.97	0.006118	2.71	9.98	3.20	0.49
valle	35. CAP_S35	Q 500	32.00	5.48	8.96	9.50	0.54	9.53	0.57	7.65	9.38	0.006595	2.88	11.12	3.20	0.49
valle	34. CAP_S34	Q 50	19.00	5.35	7.91	9.39	1.48	9.16	1.25	6.88	8.18	0.004939	2.32	8.19	3.20	0.46
valle	34. CAP_S34	Q 200	27.00	5.35	8.52	9.39	0.87	9.16	0.64	7.29	8.88	0.005860	2.66	10.15	3.20	0.48
valle	34. CAP_S34	Q 500	32.00	5.35	8.87	9.39	0.52	9.16	0.29	7.52	9.28	0.006384	2.84	11.27	3.20	0.48
valle	33. CAP_S33	Q 50	19.00	5.30	7.92	8.99	1.07	8.76	0.84	6.83	8.18	0.004669	2.27	8.38	3.20	0.45
valle	33. CAP_S33	Q 200	27.00	5.30	8.53	8.99	0.46	8.76	0.23	7.23	8.88	0.005604	2.61	10.34	3.20	0.46
valle	33. CAP_S33	Q 500	32.00	5.30	8.88	8.99	0.11	8.76	-0.12	7.47	9.28	0.006134	2.79	11.46	3.20	0.47
valle	32. CAP_S32	Q 50	19.00	5.20	7.70	8.99	1.29	8.70	1.00	7.03	8.14	0.009856	2.94	6.46	2.70	0.61
valle	32. CAP_S32	Q 200	27.00	5.20	8.24	8.99	0.75	8.70	0.46	7.48	8.83	0.012102	3.42	7.90	2.70	0.64
valle	32. CAP_S32	Q 500	32.00	5.20	8.54	8.99	0.45	8.70	0.16	7.74	9.23	0.013384	3.67	8.71	2.70	0.65
valle	31. CAP_S31	Q 50	19.00	5.20	7.24	8.94	1.70	8.94	1.70	7.24	8.10	0.019512	4.10	4.63	2.70	1.00
valle	31. CAP_S31	Q 200	27.00	5.20	7.70	8.94	1.24	8.94	1.24	7.70	8.78	0.022070	4.61	5.85	2.70	1.00
valle	31. CAP_S31	Q 500	32.00	5.20	7.96	8.94	0.98	8.94	0.98	7.96	9.17	0.023532	4.88	6.56	2.70	1.00
valle	30 CAP_S30	Q 50	19.00	5.20	6.20	8.30	2.10	8.30	2.10	6.73	8.00	0.027175	5.96	3.19	3.20	1.90
valle	30 CAP_S30	Q 200	27.00	5.20	6.49	8.30	1.81	8.30	1.81	7.13	8.67	0.026778	6.54	4.13	3.20	1.84
valle	30 CAP_S30	Q 500	32.00	5.20	6.66	8.30	1.64	8.30	1.64	7.37	9.05	0.026914	6.85	4.67	3.20	1.81
valle	29.5	Bridge														

HEC-RAS Plan: PdB (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	29	CAP_S29	Q 50	19.00	3.80	4.77	6.90	2.13	6.90	2.13	5.33	6.68	0.029482	6.13	3.10	3.20	1.99
valle	29	CAP_S29	Q 200	27.00	3.80	5.07	6.90	1.83	6.90	1.83	5.73	7.31	0.027720	6.62	4.08	3.20	1.87
valle	29	CAP_S29	Q 500	32.00	3.80	5.24	6.90	1.66	6.90	1.66	5.97	7.69	0.027727	6.93	4.62	3.20	1.84
valle	28	CAP_S28	Q 50	19.00	3.60	4.47	6.90	2.43	6.90	2.43	5.06	6.53	0.033801	6.37	2.98	3.45	2.18
valle	28	CAP_S28	Q 200	27.00	3.60	4.73	6.90	2.17	6.90	2.17	5.44	7.16	0.031658	6.91	3.91	3.45	2.07
valle	28	CAP_S28	Q 500	32.00	3.60	4.88	6.90	2.02	6.90	2.02	5.66	7.54	0.031427	7.23	4.43	3.45	2.04
valle	27	CAP_S27	Q 50	19.00	3.40	4.10	5.85	1.75	5.85	1.75	4.71	6.36	0.041993	6.65	2.86	4.06	2.53
valle	27	CAP_S27	Q 200	27.00	3.40	4.32	5.85	1.53	5.85	1.53	5.05	7.00	0.038932	7.26	3.72	4.06	2.42
valle	27	CAP_S27	Q 500	32.00	3.40	4.44	5.85	1.41	5.85	1.41	5.25	7.38	0.038250	7.61	4.21	4.06	2.39
valle	26	CAP_S26	Q 50	19.00	3.35	4.06	5.85	1.79	5.85	1.79	4.66	6.29	0.041318	6.61	2.87	4.06	2.51
valle	26	CAP_S26	Q 200	27.00	3.35	4.27	5.85	1.58	5.85	1.58	5.00	6.93	0.038462	7.23	3.73	4.06	2.41
valle	26	CAP_S26	Q 500	32.00	3.35	4.39	5.85	1.46	5.85	1.46	5.20	7.32	0.037866	7.58	4.22	4.06	2.37
valle	25	CAP_S25	Q 50	19.00	3.27	3.99	6.00	2.01	6.00	2.01	4.59	6.20	0.040555	6.59	2.88	4.00	2.48
valle	25	CAP_S25	Q 200	27.00	3.27	4.21	6.00	1.79	6.00	1.79	4.94	6.86	0.038000	7.22	3.74	4.00	2.38
valle	25	CAP_S25	Q 500	32.00	3.27	4.33	6.00	1.67	6.00	1.67	5.14	7.24	0.037454	7.57	4.23	4.00	2.35
valle	24	CAP_S24	Q 50	19.00	3.20	3.93	5.31	1.38	5.31	1.38	4.52	6.09	0.038810	6.50	2.92	3.98	2.42
valle	24	CAP_S24	Q 200	27.00	3.20	4.15	5.31	1.16	5.31	1.16	4.87	6.75	0.036824	7.15	3.78	3.98	2.34
valle	24	CAP_S24	Q 500	32.00	3.20	4.27	5.31	1.04	5.31	1.04	5.08	7.14	0.036433	7.50	4.27	3.98	2.31
valle	23	CAP_S23	Q 50	19.00	3.05	3.81	4.55	0.74	4.55	0.74	4.38	5.86	0.035782	6.34	3.00	3.93	2.32
valle	23	CAP_S23	Q 200	27.00	3.05	4.03	4.55	0.52	4.55	0.52	4.64	6.54	0.034689	7.01	3.85	3.93	2.26
valle	23	CAP_S23	Q 500	32.00	3.05	4.15	4.55	0.40	4.55	0.40	4.72	6.93	0.034557	7.38	4.34	3.93	2.24
valle	22	CAP_S22	Q 50	19.00	2.89	3.69	4.41	0.72	4.41	0.72	4.23	5.56	0.031456	6.07	3.13	3.93	2.17
valle	22	CAP_S22	Q 200	27.00	2.89	3.90	4.41	0.51	4.41	0.51	4.49	6.25	0.031457	6.78	3.98	3.93	2.15
valle	22	CAP_S22	Q 500	32.00	2.89	4.03	4.41	0.38	4.41	0.38	4.58	6.63	0.031666	7.15	4.47	3.93	2.14
valle	21	CAP_S21	Q 50	19.00	2.68	4.75	4.49	-0.26	4.37	-0.38	4.02	5.05	0.002791	2.42	7.84	2.51	0.54
valle	21	CAP_S21	Q 200	27.00	2.68	5.20	4.49	-0.71	4.37	-0.83	4.38	5.73	0.006490	3.24	8.33		0.65
valle	21	CAP_S21	Q 500	32.00	2.68	5.38	4.49	-0.89	4.37	-1.01	4.52	6.14	0.009116	3.84	8.33		0.75
valle	20	CAP_S20	Q 50	19.00	2.56	4.75	5.61	0.86	5.61	0.86	3.97	5.03	0.002212	2.35	8.10	3.74	0.51
valle	20	CAP_S20	Q 200	27.00	2.56	5.36	5.61	0.25	5.61	0.25	4.33	5.71	0.002353	2.60	10.38	3.74	0.50
valle	20	CAP_S20	Q 500	32.00	2.56	5.69	5.61	-0.08	5.61	-0.08	4.54	6.10	0.004092	2.83	11.31		0.51
valle	19	CAP_S19	Q 50	19.00	2.51	4.74	5.60	0.86	4.77	0.03	3.95	5.03	0.002307	2.38	7.97	3.64	0.51
valle	19	CAP_S19	Q 200	27.00	2.51	5.34	5.60	0.26	4.77	-0.57	4.32	5.70	0.002491	2.66	10.17	3.64	0.51
valle	19	CAP_S19	Q 500	32.00	2.51	5.69	5.60	-0.09	4.77	-0.92	4.54	6.09	0.002608	2.80	11.43	3.64	0.50
valle	18	CAP_S18	Q 50	19.00	2.43	4.12	5.60	1.48	4.77	0.65	4.12	4.95	0.009333	4.04	4.71	2.84	1.00
valle	18	CAP_S18	Q 200	27.00	2.43	4.56	5.60	1.04	4.77	0.21	4.56	5.60	0.010284	4.53	5.96	2.84	1.00
valle	18	CAP_S18	Q 500	32.00	2.43	4.81	5.60	0.79	4.77	-0.04	4.81	5.98	0.010873	4.80	6.67	2.84	1.00
valle	17	CAP_S17	Q 50	19.00	2.25	3.48	4.77	1.29	4.77	1.29	3.82	4.74	0.016374	4.96	3.83	3.14	1.43
valle	17	CAP_S17	Q 200	27.00	2.25	3.82	4.77	0.95	4.77	0.95	4.22	5.38	0.017066	5.53	4.89	3.14	1.41

HEC-RAS Plan: PdB (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	17	CAP_S17	Q 500	32.00	2.25	4.01	4.77	0.76	4.77	0.76	4.46	5.74	0.017588	5.83	5.49	3.14	1.41
valle	16	CAP_S16	Q 50	19.00	2.09	3.23	4.77	1.54	4.77	1.54	3.63	4.61	0.018877	5.20	3.65	3.25	1.57
valle	16	CAP_S16	Q 200	27.00	2.09	3.55	4.77	1.22	4.77	1.22	4.03	5.25	0.019312	5.78	4.67	3.25	1.54
valle	16	CAP_S16	Q 500	32.00	2.09	3.73	4.77	1.04	4.77	1.04	4.26	5.61	0.019705	6.08	5.26	3.25	1.52
valle	15	CAP_S15	Q 50	19.00	1.85	2.90	4.77	1.87	4.77	1.87	3.34	4.39	0.021513	5.40	3.52	3.46	1.71
valle	15	CAP_S15	Q 200	27.00	1.85	3.19	4.77	1.58	4.77	1.58	3.72	5.02	0.021700	5.99	4.50	3.46	1.68
valle	15	CAP_S15	Q 500	32.00	1.85	3.35	4.77	1.42	4.77	1.42	3.94	5.38	0.021957	6.31	5.07	3.46	1.66
valle	14	CAP_S14	Q 50	19.00	1.69	2.79	4.22	1.43	4.22	1.43	3.18	4.16	0.019199	5.19	3.66	3.46	1.61
valle	14	CAP_S14	Q 200	27.00	1.69	3.08	4.22	1.14	4.22	1.14	3.57	4.78	0.019626	5.78	4.67	3.46	1.59
valle	14	CAP_S14	Q 500	32.00	1.69	3.25	4.22	0.97	4.22	0.97	3.79	5.13	0.019923	6.08	5.26	3.46	1.57
valle	13	CAP_S13	Q 50	19.00	1.63	2.55	4.28	1.73	4.28	1.73	2.99	4.05	0.022914	5.42	3.50	3.94	1.84
valle	13	CAP_S13	Q 200	27.00	1.63	2.79	4.28	1.49	4.28	1.49	3.34	4.66	0.023158	6.06	4.45	3.94	1.82
valle	13	CAP_S13	Q 500	32.00	1.63	2.93	4.28	1.35	4.28	1.35	3.54	5.01	0.023362	6.40	5.00	3.94	1.81
valle	12.1	CAP_S12	Q 50	19.00	1.36	2.36	4.60	2.24	4.20	1.84	2.74	3.66	0.018848	5.06	3.76	3.97	1.66
valle	12.1	CAP_S12	Q 200	27.00	1.36	2.60	4.60	2.00	4.20	1.60	3.09	4.26	0.019531	5.70	4.74	3.97	1.66
valle	12.1	CAP_S12	Q 500	32.00	1.36	2.75	4.60	1.85	4.20	1.45	3.29	4.60	0.019858	6.02	5.32	3.97	1.66
valle	12	CAP_S12	Q 50	19.00	1.36	2.36	1.36	-1.00	2.65	0.29	2.65	3.66	0.023171	5.06	3.76	3.97	1.66
valle	12	CAP_S12	Q 200	27.00	1.36	2.60	1.36	-1.24	2.65	0.04	3.16	4.26	0.024714	5.70	4.74	3.97	1.66
valle	12	CAP_S12	Q 500	32.00	1.36	2.93	1.36	-1.57	2.65	-0.28	3.36	4.52	0.033651	5.58	5.73	3.97	1.49
valle	11	CAP_S11	Q 50	19.00	1.30	2.33	1.30	-1.03	2.65	0.32	2.65	3.53	0.022653	4.85	3.92	4.50	1.66
valle	11	CAP_S11	Q 200	27.00	1.30	2.53	1.30	-1.23	2.65	0.12	3.07	4.13	0.025418	5.61	4.82	4.50	1.73
valle	11	CAP_S11	Q 500	32.00	1.30	2.75	1.30	-1.45	2.65	-0.10	3.26	4.36	0.031479	5.62	5.69	3.30	1.57
valle	10.9	CAP_S11	Q 50	19.00	0.80	1.70	0.80	-0.90	2.65	0.95	2.28	3.47	0.033860	5.89	3.22	3.60	1.99
valle	10.9	CAP_S11	Q 200	27.00	0.80	1.97	0.80	-1.17	2.65	0.68	2.60	4.08	0.033380	6.44	4.20	3.60	1.90
valle	10.9	CAP_S11	Q 500	32.00	0.80	2.15	0.80	-1.35	2.65	0.50	2.65	4.30	0.034854	6.50	4.93	4.44	1.97
valle	10	CAP_S10	Q 50	19.00	0.71	1.67	0.71	-0.97	2.65	0.97	2.24	3.20	0.027552	5.47	3.47	3.60	1.78
valle	10	CAP_S10	Q 200	27.00	0.71	1.95	0.71	-1.24	2.65	0.70	2.52	3.80	0.028003	6.02	4.48	3.60	1.72
valle	10	CAP_S10	Q 500	32.00	0.71	3.63	0.71	-2.92	2.65	-0.98	2.65	3.92	0.003385	2.41	13.29	5.57	0.47
valle	9.9	CAP_S10	Q 50	19.00	0.71	1.68	5.00	3.32	4.60	2.92	2.24	3.20	0.022227	5.47	3.47	3.60	1.78
valle	9.9	CAP_S10	Q 200	27.00	0.71	1.95	5.00	3.05	4.60	2.65	2.52	3.80	0.021848	6.02	4.48	3.60	1.72
valle	9.9	CAP_S10	Q 500	32.00	0.71	3.64	5.00	1.36	4.60	0.96	2.68	3.92	0.001728	2.34	13.65	5.57	0.48
valle	9	CAP_S9	Q 50	19.00	0.66	1.69	2.60	0.91	2.60	0.91	2.08	3.03	0.018630	5.14	3.70	3.60	1.62
valle	9	CAP_S9	Q 200	27.00	0.66	2.00	2.60	0.60	2.60	0.60	2.45	3.59	0.017757	5.59	4.83	3.60	1.54
valle	9	CAP_S9	Q 500	32.00	0.66	2.76	2.60	-0.16	2.60	-0.16	2.60	3.83	0.015537	4.58	6.98		1.01
valle	8	CAP_S8	Q 50	19.00	0.56	1.67	2.25	0.58	2.25	0.58	2.00	2.87	0.015614	4.84	3.92	3.52	1.46
valle	8	CAP_S8	Q 200	27.00	0.56	2.02	2.25	0.23	2.25	0.23	2.29	3.43	0.014892	5.25	5.14	3.52	1.39
valle	8	CAP_S8	Q 500	32.00	0.56	2.35	2.25	-0.10	2.25	-0.10	2.35	3.69	0.014851	5.13	6.24	2.35	1.22
valle	7	CAP_S7	Q 50	19.00	0.20	1.34	2.36	1.02	2.36	1.02	1.64	2.48	0.014679	4.74	4.01	3.52	1.42

HEC-RAS Plan: PdB (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	7 CAP_S7	Q 200	27.00	0.20	1.67	2.36	0.69	2.36	0.69	2.02	3.06	0.014648	5.22	5.17	3.52	1.37
valle	7 CAP_S7	Q 500	32.00	0.20	1.92	2.36	0.44	2.36	0.44	2.23	3.34	0.013443	5.28	6.06	3.52	1.29
valle	6 CAP_S6	Q 50	19.00	0.15	1.02	2.35	1.33	2.35	1.33	1.38	2.25	0.017887	4.90	3.88	4.44	1.67
valle	6 CAP_S6	Q 200	27.00	0.15	1.25	2.35	1.10	2.35	1.10	1.70	2.81	0.018417	5.53	4.88	4.44	1.68
valle	6 CAP_S6	Q 500	32.00	0.15	1.40	2.35	0.95	2.35	0.95	1.89	3.09	0.017928	5.77	5.55	4.44	1.65
valle	5 CAP_S5	Q 50	19.00	0.14	0.81	2.44	1.63	2.44	1.63	1.21	2.14	0.023575	5.10	3.72	5.52	1.98
valle	5 CAP_S5	Q 200	27.00	0.14	0.98	2.44	1.46	2.44	1.46	1.49	2.70	0.024041	5.80	4.66	5.52	2.01
valle	5 CAP_S5	Q 500	32.00	0.14	1.09	2.44	1.35	2.44	1.35	1.65	2.98	0.023445	6.08	5.26	5.52	1.99
valle	4 CAP_S4	Q 50	19.00	0.13	0.80	2.42	1.62	2.42	1.62	1.21	2.07	0.022669	5.00	3.80	5.70	1.95
valle	4 CAP_S4	Q 200	27.00	0.13	0.96	2.42	1.46	2.42	1.46	1.46	2.63	0.023708	5.72	4.72	5.70	2.01
valle	4 CAP_S4	Q 500	32.00	0.13	1.06	2.42	1.36	2.42	1.36	1.60	2.91	0.023205	6.02	5.32	5.70	1.99
valle	3 CAP_S3	Q 50	19.00	0.06	1.15	2.44	1.29	2.44	1.29	1.20	1.66	0.007114	3.16	6.01	7.10	1.10
valle	3 CAP_S3	Q 200	27.00	0.06	1.11	2.44	1.33	2.44	1.33	1.44	2.23	0.016529	4.70	5.75	7.10	1.67
valle	3 CAP_S3	Q 500	32.00	0.06	1.17	2.44	1.27	2.44	1.27	1.57	2.53	0.018463	5.17	6.19	7.10	1.77
valle	2 CAP_S2	Q 50	19.00	0.04	0.58	1.60	1.02	1.60	1.02	0.81	1.36	0.016395	3.93	4.84	9.00	1.71
valle	2 CAP_S2	Q 200	27.00	0.04	0.66	1.60	0.94	1.60	0.94	1.01	1.86	0.021238	4.85	5.56	9.00	1.97
valle	2 CAP_S2	Q 500	32.00	0.04	0.71	1.60	0.89	1.60	0.89	1.13	2.15	0.023136	5.31	6.03	9.00	2.07
valle	1 CAP_S1	Q 50	19.00	0.00	1.00	1.20	0.20	1.20	0.20	0.77	1.23	0.002329	2.11	9.00	9.00	0.67
valle	1 CAP_S1	Q 200	27.00	0.00	0.77	1.20	0.43	1.20	0.43	0.97	1.54	0.010447	3.88	6.97	9.00	1.41
valle	1 CAP_S1	Q 500	32.00	0.00	0.81	1.20	0.39	1.20	0.39	1.09	1.80	0.012871	4.41	7.26	9.00	1.57



HEC-RAS Plan: PdB River: Calano Reach: Calano

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	
Calano	8.1	CAL_S9	Q 50	11.00	26.06	27.12	27.10	-0.02	27.37	0.25	27.12	27.60	0.014319	3.08	3.57	3.69	1.01
Calano	8.1	CAL_S9	Q 200	16.00	26.06	27.39	27.10	-0.30	27.37	-0.02	27.39	28.02	0.015260	3.50	4.57	3.66	1.01
Calano	8.1	CAL_S9	Q 500	19.00	26.06	27.53	27.10	-0.43	27.37	-0.16	27.53	28.25	0.016300	3.75	5.07	3.54	1.03
Calano	8	CAL_S8	Q 50	11.00	25.06	25.62	28.16	2.54	30.40	4.78	26.09	27.44	0.107985	5.98	1.84	3.71	2.71
Calano	8	CAL_S8	Q 200	16.00	25.06	25.80	28.16	2.36	30.40	4.60	26.36	27.84	0.087966	6.33	2.53	3.74	2.46
Calano	8	CAL_S8	Q 500	19.00	25.06	25.90	28.16	2.26	30.40	4.50	26.50	28.07	0.081540	6.52	2.91	3.76	2.36
Calano	7	CAL_S7	Q 50	11.00	18.89	19.33	28.15	8.82	28.15	8.82	19.88	22.92	0.362033	8.40	1.31	4.59	5.02
Calano	7	CAL_S7	Q 200	16.00	18.89	19.41	28.15	8.74	28.15	8.74	20.10	23.89	0.338326	9.38	1.71	4.72	4.98
Calano	7	CAL_S7	Q 500	19.00	18.89	19.46	28.15	8.69	28.15	8.69	20.22	24.34	0.321119	9.78	1.94	4.80	4.91
Calano	6	CAL_S6	Q 50	11.00	16.76	17.52	19.37	1.85	23.98	6.46	17.71	18.14	0.031319	3.51	3.13	6.58	1.62
Calano	6	CAL_S6	Q 200	16.00	16.76	17.62	19.37	1.75	23.98	6.36	17.90	18.51	0.036548	4.18	3.82	6.81	1.78
Calano	6	CAL_S6	Q 500	19.00	16.76	17.67	19.37	1.70	23.98	6.31	18.00	18.72	0.039135	4.53	4.20	6.93	1.86
Calano	5	CAL_S5	Q 50	11.00	13.00	13.59	16.11	2.52	19.85	6.26	13.93	14.76	0.068000	4.78	2.30	5.22	2.30
Calano	5	CAL_S5	Q 200	16.00	13.00	13.74	16.11	2.37	19.85	6.11	14.14	15.08	0.057419	5.11	3.13	5.56	2.18
Calano	5	CAL_S5	Q 500	19.00	13.00	13.82	16.11	2.29	19.85	6.03	14.26	15.25	0.054121	5.29	3.59	5.74	2.14
Calano	4.2	CAL_S4	Q 50	11.00	10.46	12.45	15.71	3.26	15.55	3.10	12.17	12.79	0.010523	2.58	4.26	3.18	0.71
Calano	4.2	CAL_S4	Q 200	16.00	10.46	12.82	15.71	2.89	15.55	2.73	12.49	13.26	0.011247	2.92	5.48	3.43	0.74
Calano	4.2	CAL_S4	Q 500	19.00	10.46	13.05	15.71	2.66	15.55	2.50	12.66	13.52	0.011076	3.03	6.27	3.67	0.74
Calano	4.1		Bridge														
Calano	4	CAL_S4	Q 50	11.00	10.46	12.17	15.71	3.54	15.55	3.38	12.17	12.71	0.020461	3.27	3.36	3.08	1.00
Calano	4	CAL_S4	Q 200	16.00	10.46	12.49	15.71	3.22	15.55	3.06	12.49	13.17	0.020738	3.66	4.37	3.20	1.00
Calano	4	CAL_S4	Q 500	19.00	10.46	12.66	15.71	3.05	15.55	2.89	12.66	13.42	0.020969	3.85	4.93	3.26	1.00
Calano	3	CAL_S3	Q 50	11.00	9.55	10.19	13.53	3.34	13.51	3.32	10.57	11.49	0.065419	5.05	2.18	3.62	2.08
Calano	3	CAL_S3	Q 200	16.00	9.55	10.38	13.53	3.15	13.51	3.13	10.85	11.96	0.060626	5.56	2.88	3.64	1.99
Calano	3	CAL_S3	Q 500	19.00	9.55	10.49	13.53	3.04	13.51	3.02	11.00	12.20	0.058621	5.79	3.28	3.64	1.95
Calano	2	CAL_S2	Q 50	11.00	8.34	9.76	13.53	3.77	13.53	3.77	9.55	10.14	0.009974	2.73	4.04	3.14	0.77
Calano	2	CAL_S2	Q 200	16.00	8.34	10.53	13.53	3.00	13.53	3.00	9.86	10.84	0.006092	2.47	6.47	3.23	0.56
Calano	2	CAL_S2	Q 500	19.00	8.34	11.33	13.53	2.20	13.53	2.20	10.04	11.56	0.003668	2.09	9.08	3.23	0.40
Calano	1.5		Bridge														
Calano	1	CAL_S1	Q 50	11.00	5.87	8.24	9.62	1.38	9.60	1.36	7.00	8.37	0.002411	1.55	7.10	3.02	0.32
Calano	1	CAL_S1	Q 200	16.00	5.87	8.94	9.62	0.68	9.60	0.66	7.31	9.09	0.002677	1.74	9.21	3.03	0.32
Calano	1	CAL_S1	Q 500	19.00	5.87	9.35	9.62	0.27	9.60	0.25	7.48	9.52	0.002778	1.82	10.45	3.03	0.31