



REGIONE LIGURIA



Autorità di Bacino Distrettuale
dell'Appennino Settentrionale

TORRENTE LAVAGNA

PIANO DI BACINO STRALCIO PER L'ASSETTO IDROGEOLOGICO

VERIFICHE IDRAULICHE ASTA PRINCIPALE

PRIMA APPROVAZIONE	Delibera del Consiglio Provinciale di Genova n. 29 del 09/04/2002
ULTIMA MODIFICA DELL'ELABORATO	Decreto del Direttore Generale n. 2461 del 22/04/2020
ENTRATA IN VIGORE	BURL n. 20 del 13/05/2020 – parte II

Piano di bacino torrente Lavagna

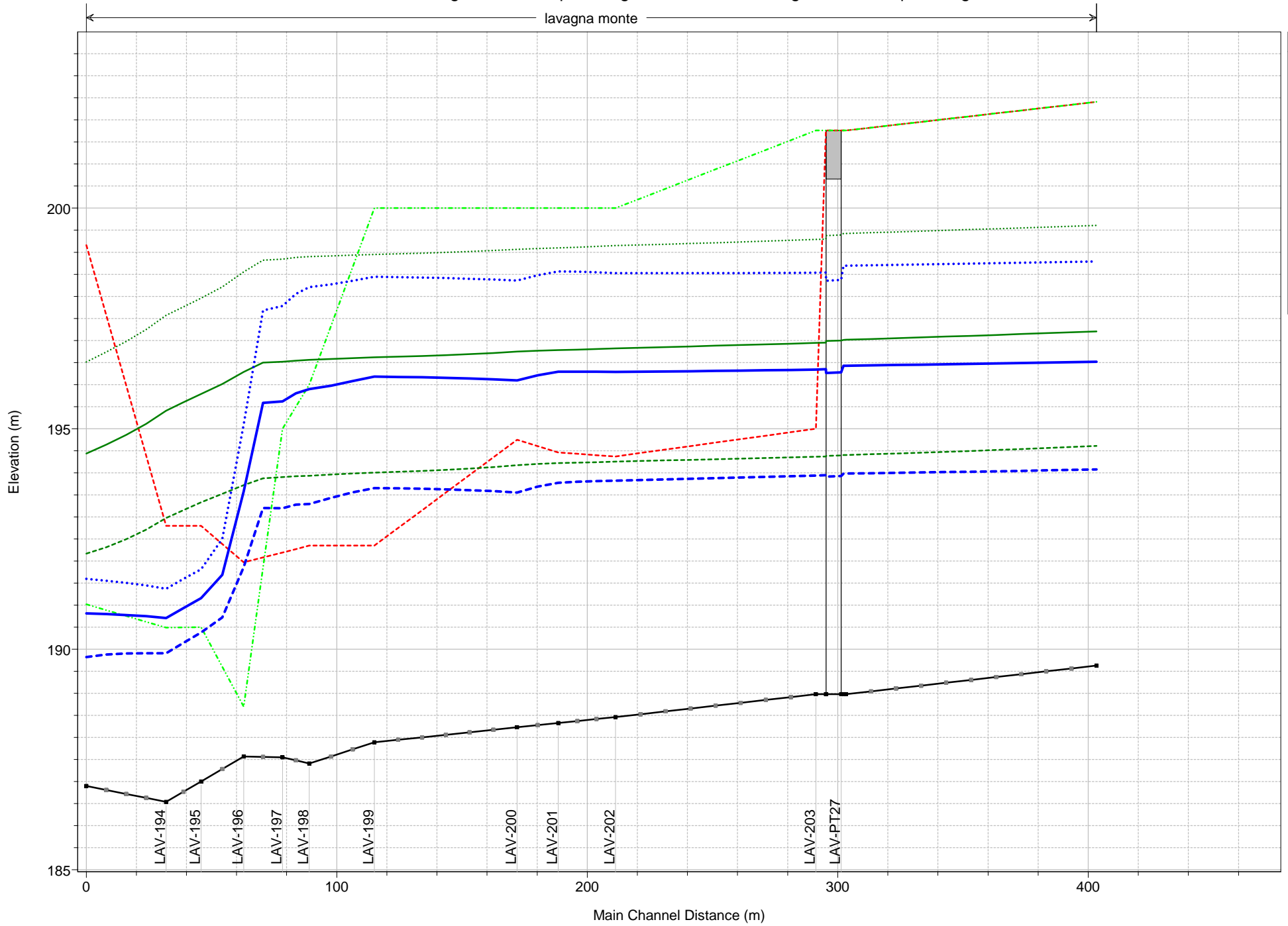
T. Lavagna

tratto di monte – dalla sez. LAV203 alla LAV194

- **Profili idraulici**
- **Sezioni**
- **Tabelle dei risultati**

T. Lavagna - Loc. Acqua di Ognio Plan: T. Lavagna - Loc. Acqua di Ognio

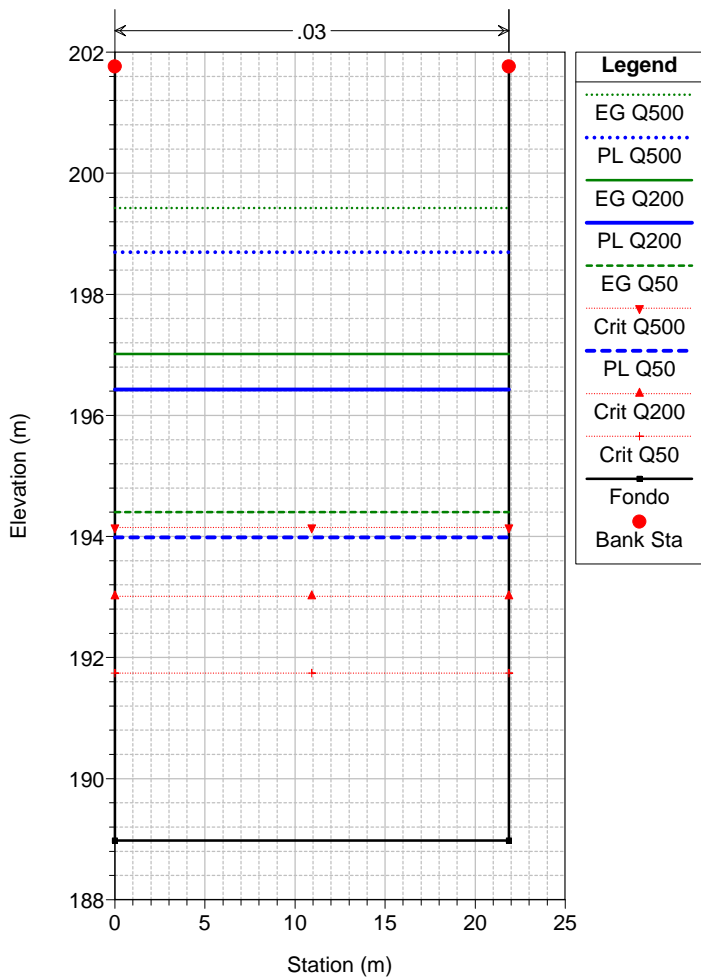
lavagna monte



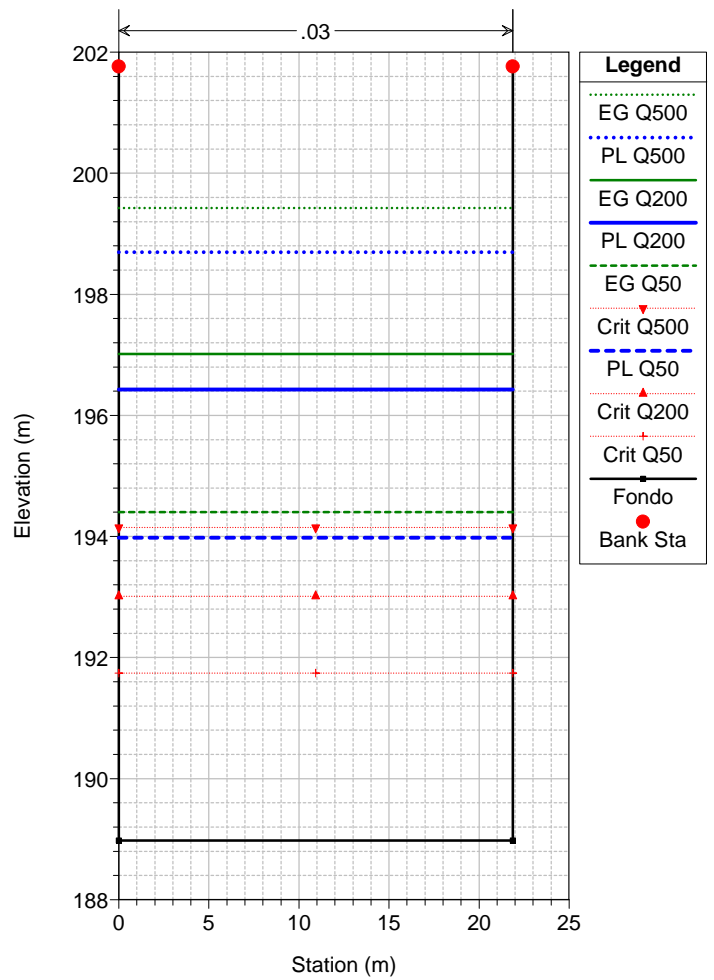
Legend	
EG Q500	(Dotted Green Line)
EG Q200	(Dashed Green Line)
EG Q50	(Dash-Dot Green Line)
PL Q500	(Dotted Blue Line)
PL Q200	(Dashed Blue Line)
PL Q50	(Dash-Dot Blue Line)
Fondo	(Solid Black Line with Square Markers)
Sponda sx	(Dashed Red Line)
Sponda dx	(Dash-Dot Green Line)

1 cm Horiz. = 20 m 1 cm Vert. = 1.135341 m

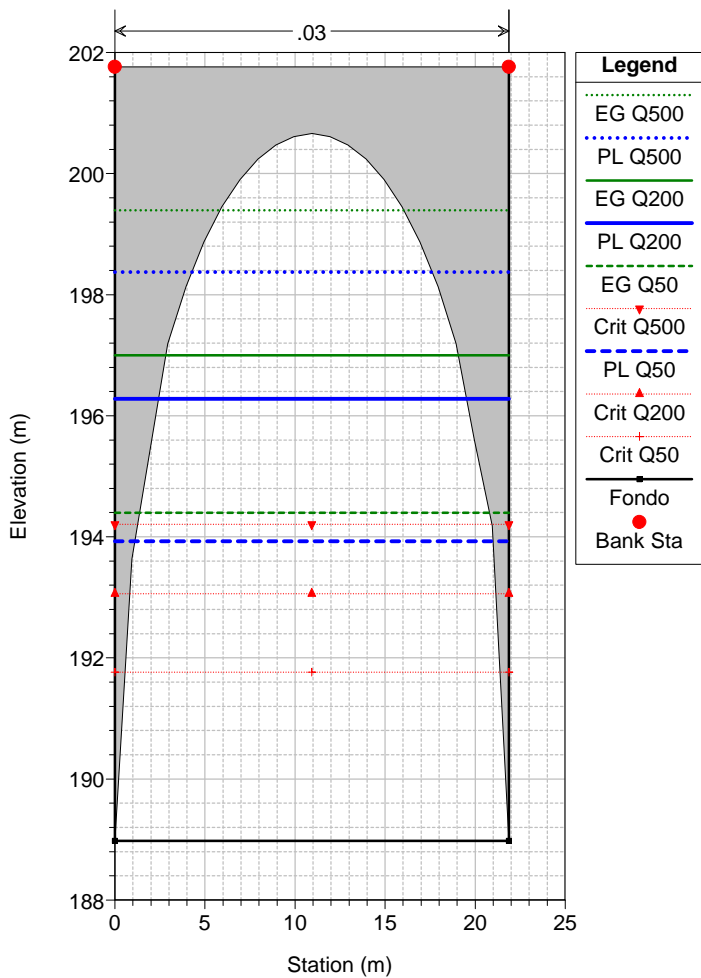
LAV-203



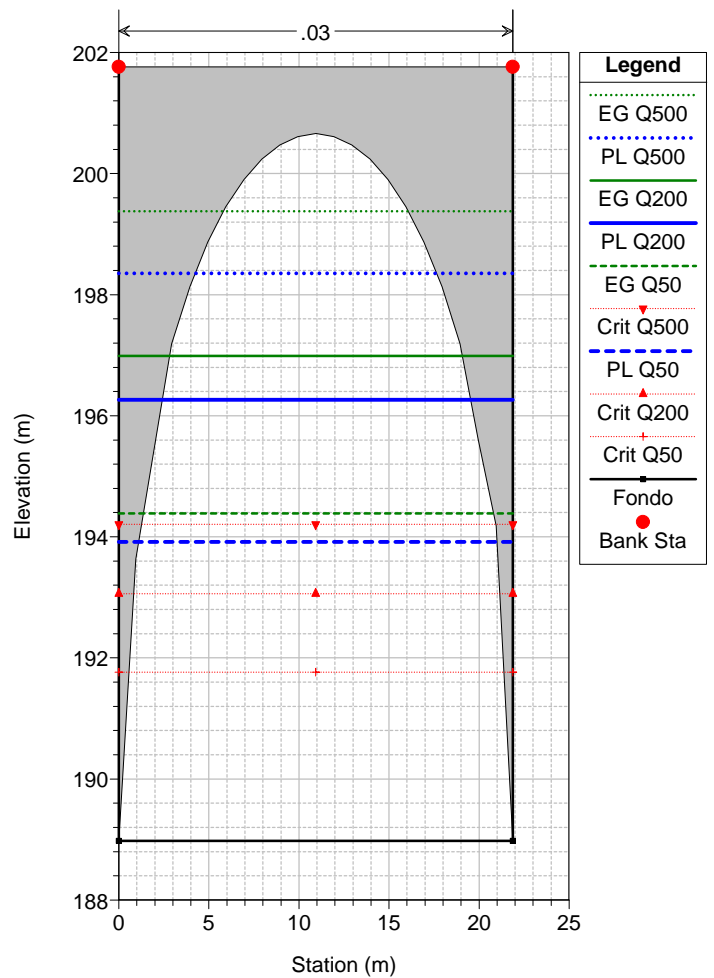
LAV-203



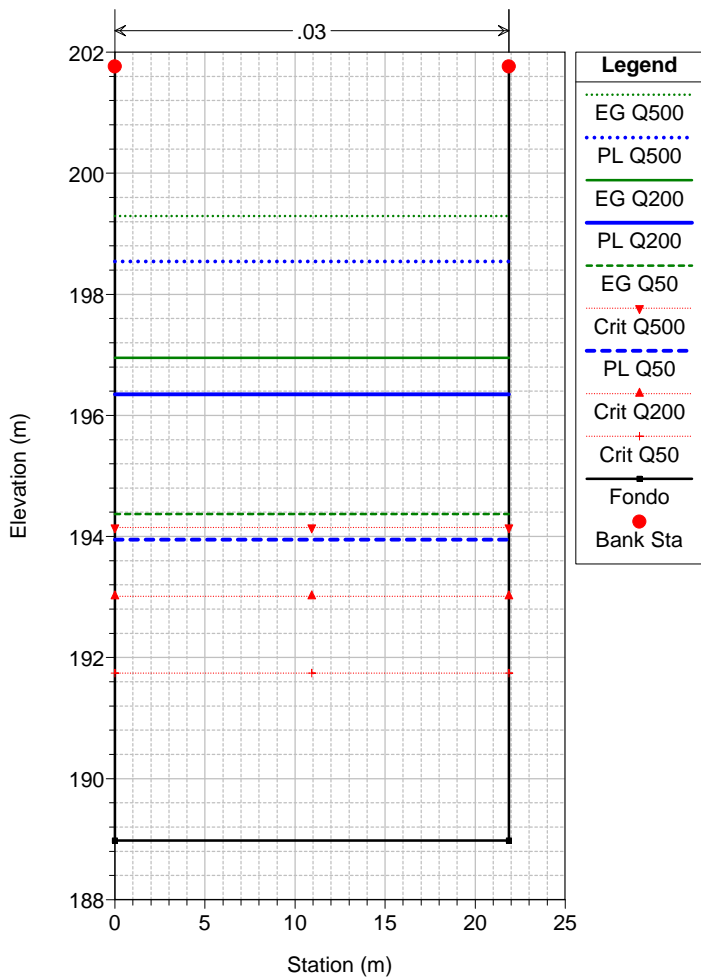
LAV-PT27



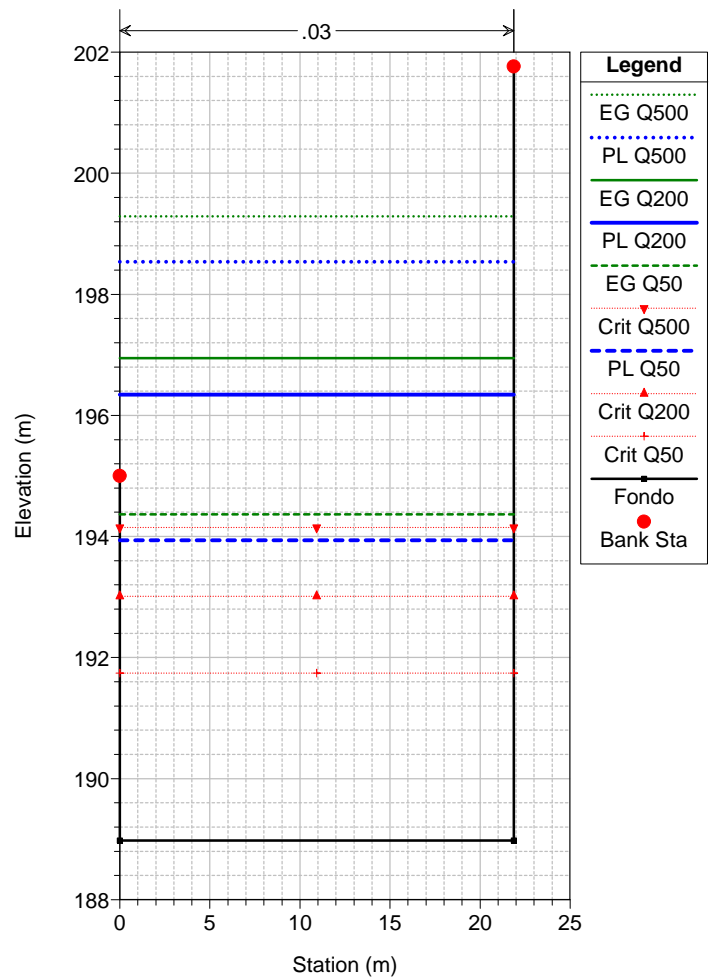
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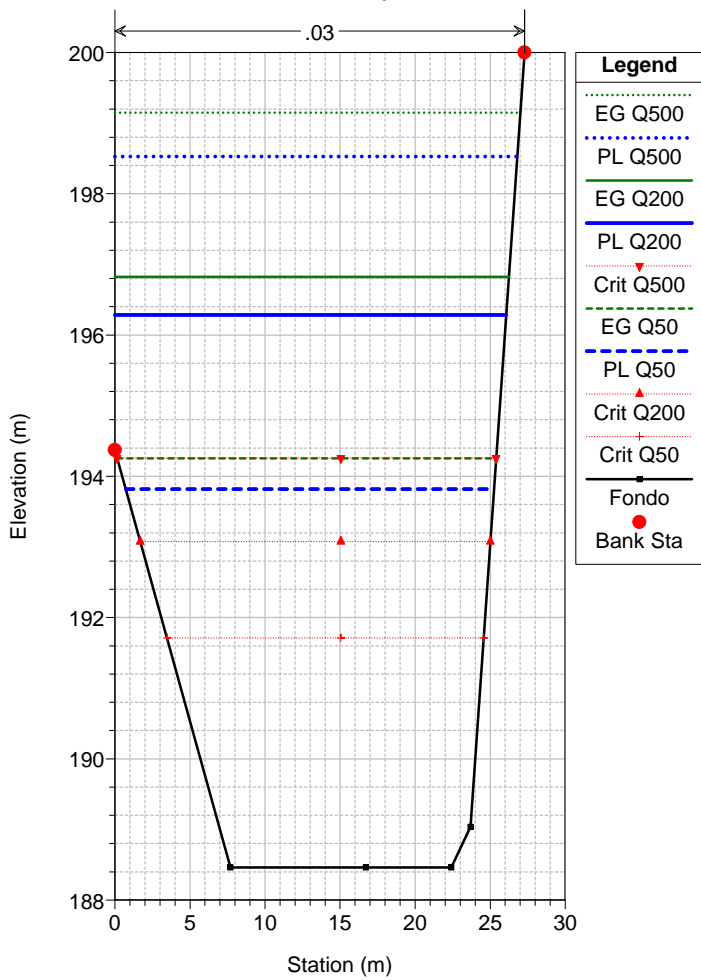
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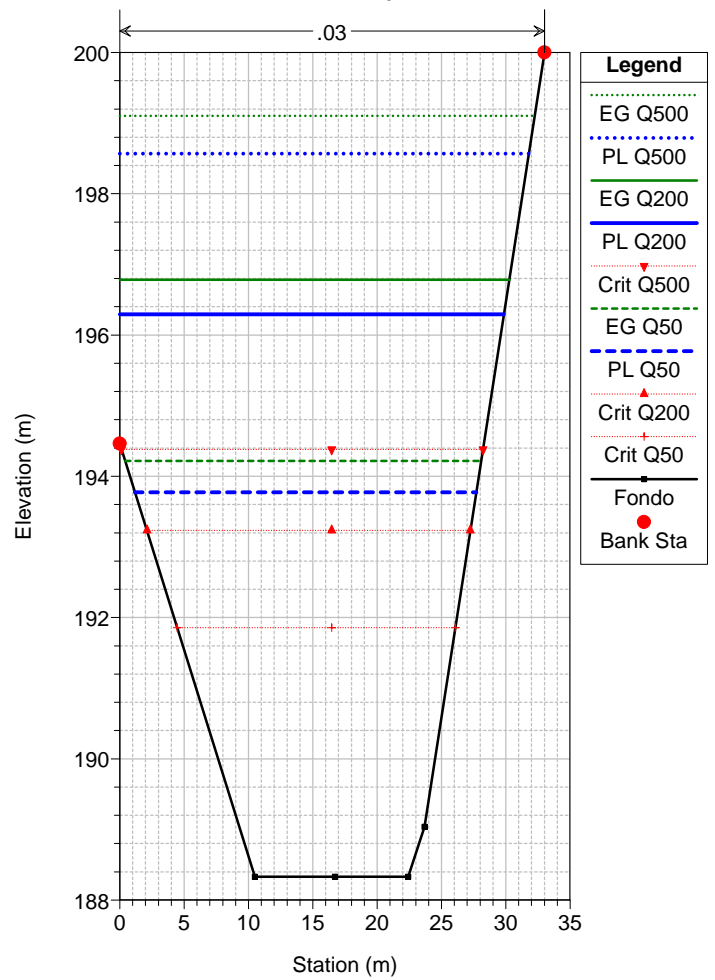
LAV-203

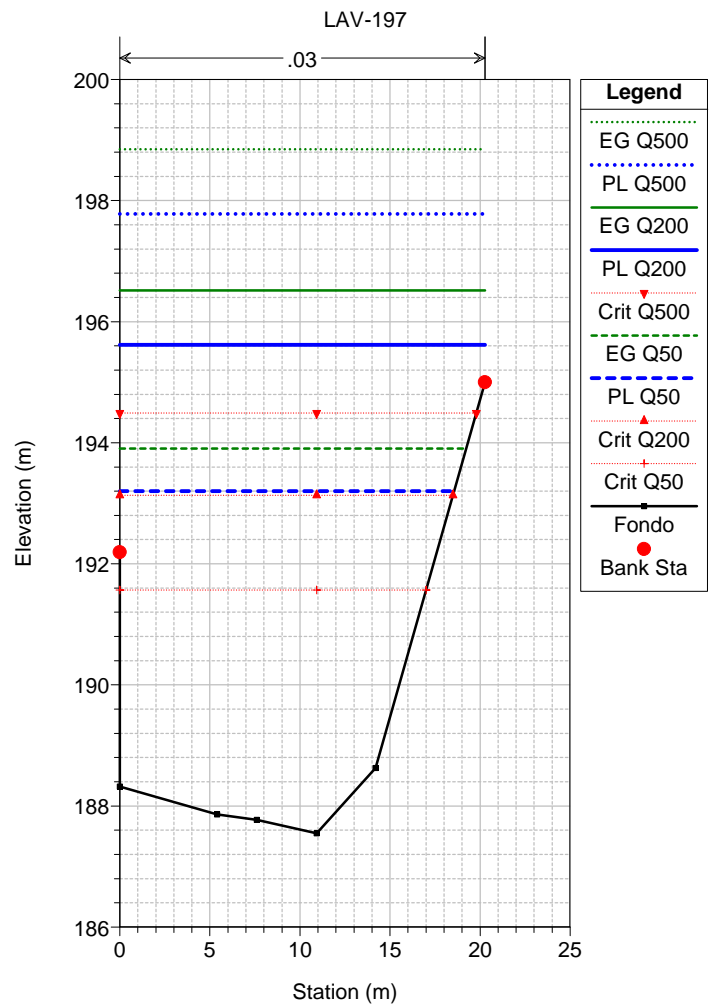
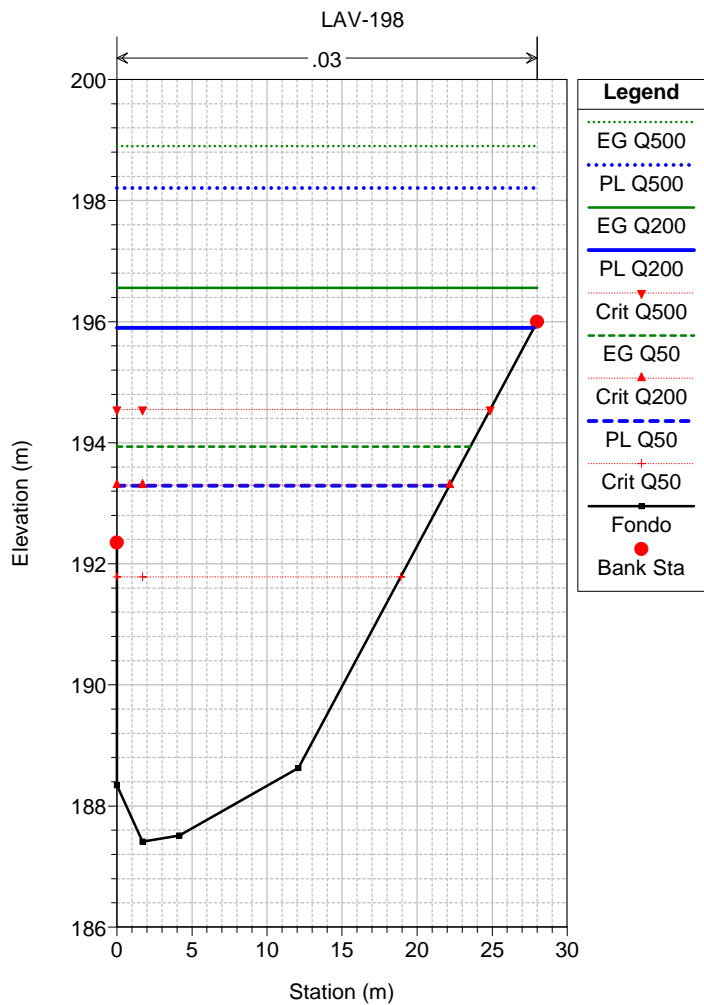
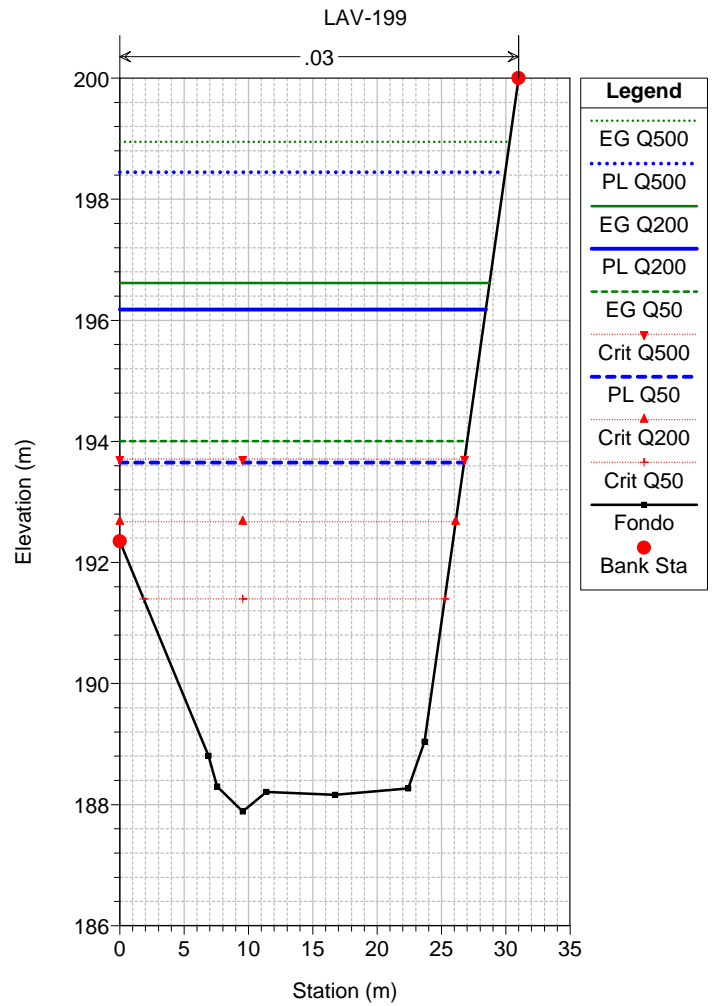
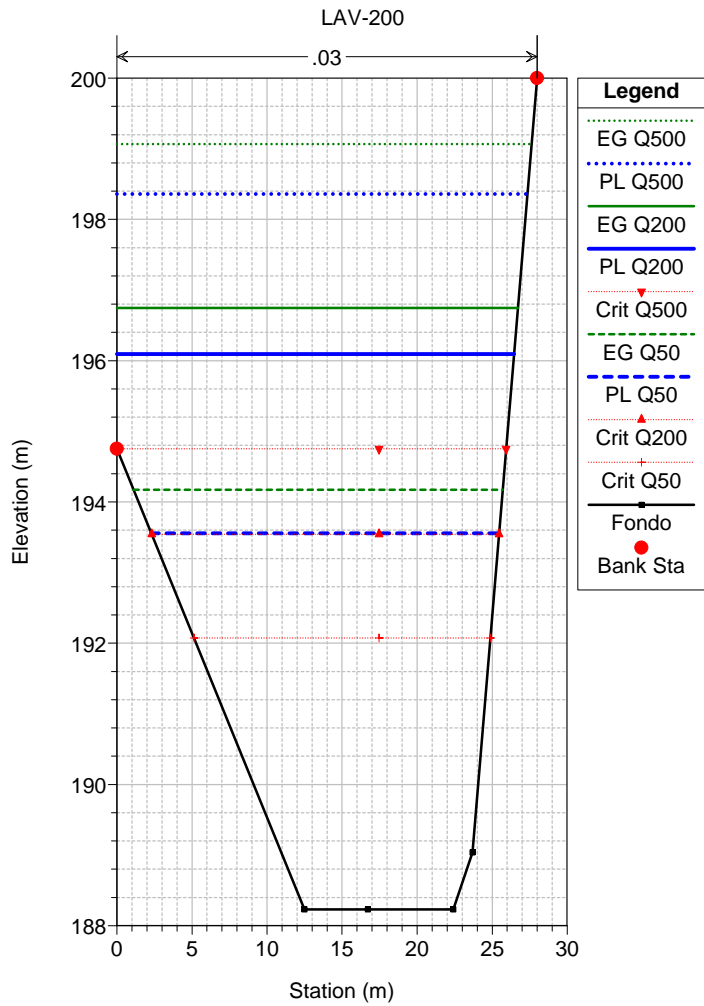


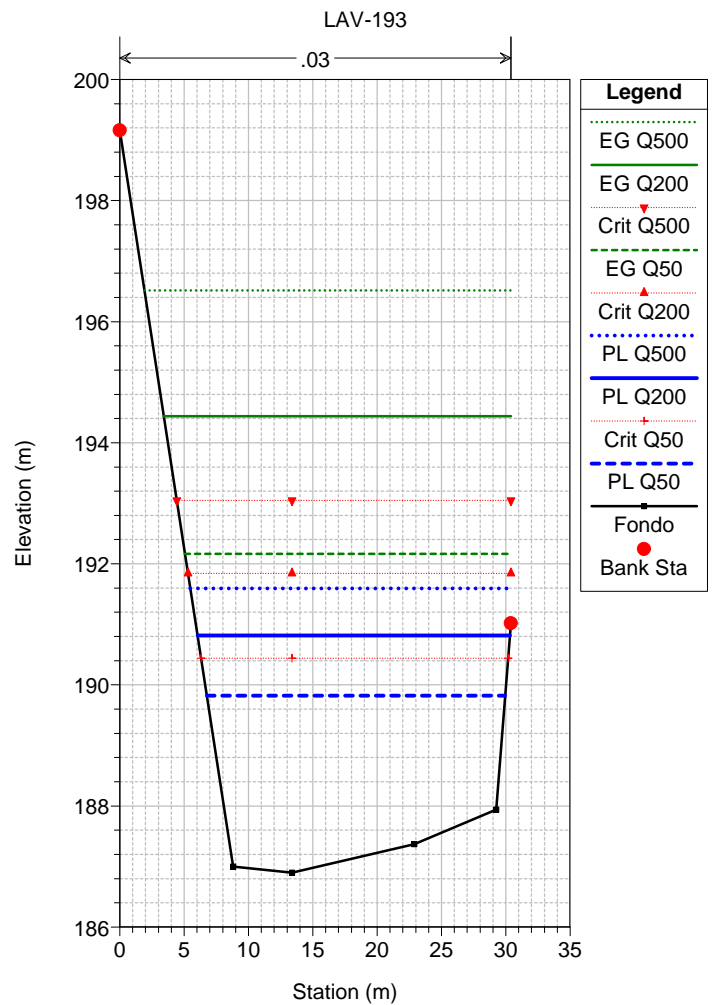
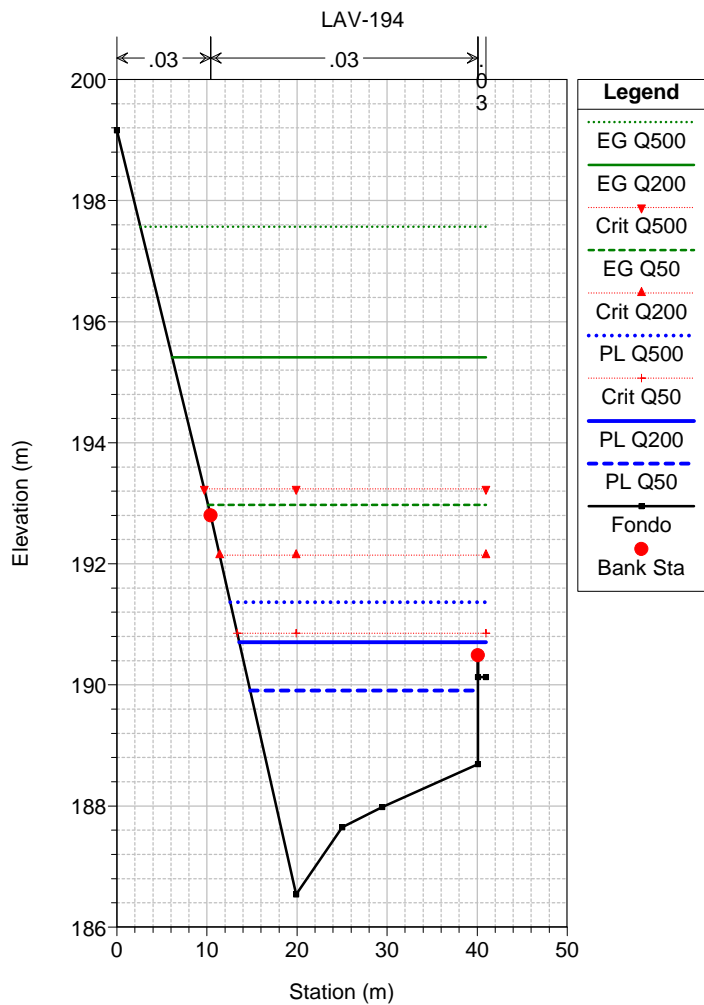
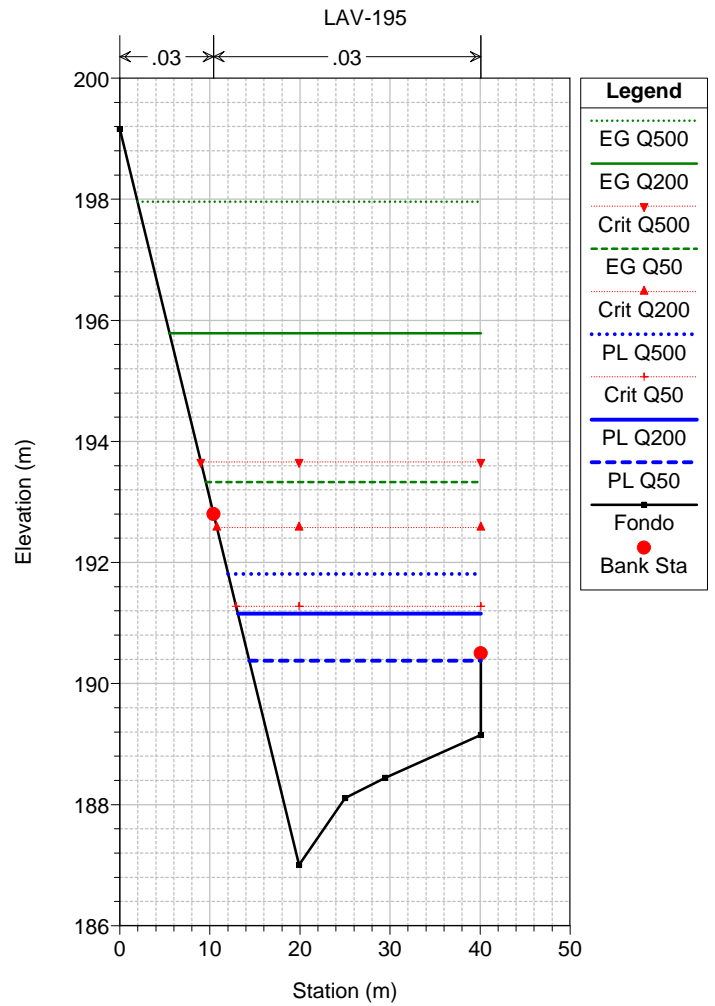
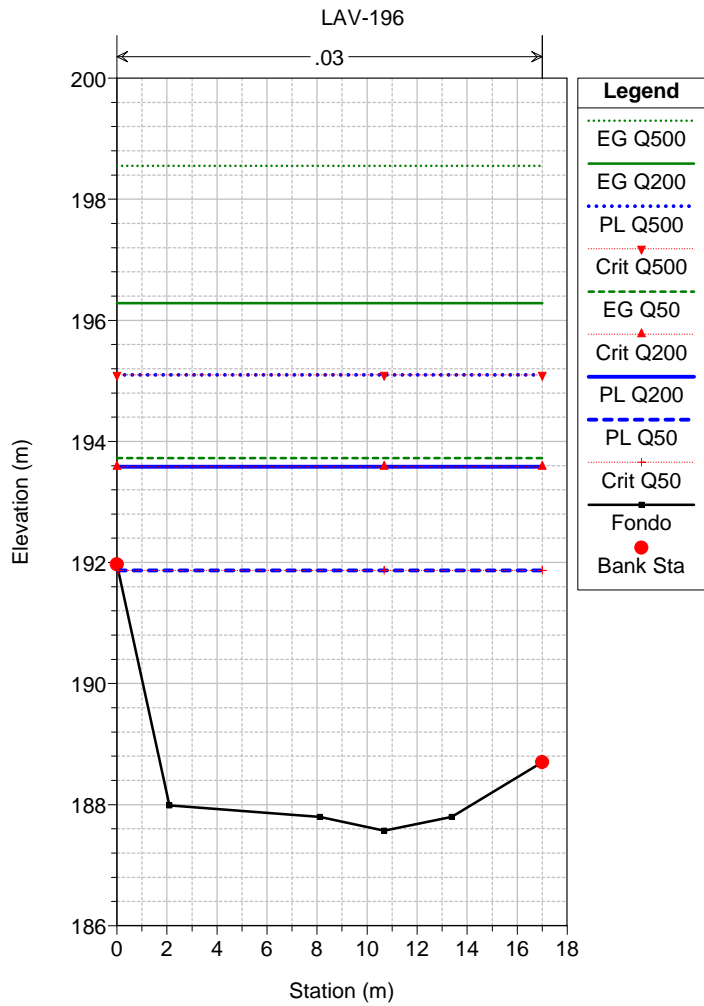
LAV-202



LAV-201







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	304	Q50	314.00	189.63	194.08	202.41	8.33	202.41	8.33	192.39	194.61	0.002023	3.23	97.23	21.87	0.49	
monte	304	Q200	554.00	189.63	196.52	202.41	5.89	202.41	5.89	193.66	197.21	0.001782	3.68	150.62	21.87	0.45	
monte	304	Q500	804.00	189.63	198.79	202.41	3.62	202.41	3.62	194.80	199.61	0.001703	4.01	200.32	21.87	0.42	
monte	303	LAV-203	Q50	314.00	188.98	193.98	201.76	7.78	201.76	7.78	191.74	194.40	0.001431	2.87	109.43	21.87	0.41
monte	303	LAV-203	Q200	554.00	188.98	196.43	201.76	5.33	201.76	5.33	193.01	197.02	0.001431	3.40	162.87	21.87	0.40
monte	303	LAV-203	Q500	804.00	188.98	198.70	201.76	3.06	201.76	3.06	194.15	199.43	0.001451	3.78	212.50	21.87	0.39
monte	302	LAV-203	Q50	314.00	188.98	193.98	201.76	7.78	201.76	7.78	191.74	194.40	0.001432	2.87	109.39	21.87	0.41
monte	302	LAV-203	Q200	554.00	188.98	196.43	201.76	5.33	201.76	5.33	193.01	197.02	0.001432	3.40	162.83	21.87	0.40
monte	302	LAV-203	Q500	804.00	188.98	198.69	201.76	3.07	201.76	3.07	194.15	199.42	0.001451	3.78	212.46	21.87	0.39
monte	301.15	LAV-PT27	Bridge														
monte	301	LAV-203	Q50	314.00	188.98	193.95	201.76	7.81	201.76	7.81	191.74	194.37	0.001463	2.89	108.60	21.87	0.41
monte	301	LAV-203	Q200	554.00	188.98	196.35	201.76	5.41	201.76	5.41	193.01	196.95	0.001474	3.44	161.15	21.87	0.40
monte	301	LAV-203	Q500	804.00	188.98	198.54	201.76	3.22	201.76	3.22	194.15	199.30	0.001515	3.84	209.14	21.87	0.40
monte	300	LAV-203	Q50	314.00	188.98	193.94	195.00	1.06	201.76	7.82	191.74	194.37	0.001469	2.90	108.45	21.87	0.42
monte	300	LAV-203	Q200	554.00	188.98	196.34	195.00	-1.34	201.76	5.42	193.01	196.94	0.001478	3.44	161.00	21.87	0.40
monte	300	LAV-203	Q500	804.00	188.98	198.54	195.00	-3.54	201.76	3.22	194.15	199.29	0.001518	3.85	208.98	21.87	0.40
monte	280	LAV-202	Q50	314.00	188.46	193.82	194.37	0.55	200.00	6.18	191.71	194.25	0.001384	2.91	107.79	24.54	0.44
monte	280	LAV-202	Q200	554.00	188.46	196.29	194.37	-1.92	200.00	3.71	193.08	196.82	0.001158	3.24	170.87	26.07	0.40
monte	280	LAV-202	Q500	804.00	188.46	198.53	194.37	-4.16	200.00	1.47	194.26	199.15	0.001064	3.49	230.14	26.81	0.38
monte	270	LAV-201	Q50	314.00	188.33	193.77	194.46	0.69	200.00	6.23	191.86	194.22	0.001483	2.96	106.19	26.53	0.47
monte	270	LAV-201	Q200	554.00	188.33	196.29	194.46	-1.83	200.00	3.71	193.23	196.78	0.001064	3.11	178.25	29.85	0.41
monte	270	LAV-201	Q500	804.00	188.33	198.57	194.46	-4.11	200.00	1.43	194.38	199.10	0.000886	3.24	248.37	31.78	0.37
monte	260	LAV-200	Q50	314.00	188.23	193.55	194.75	1.20	200.00	6.45	192.07	194.17	0.002268	3.48	90.21	23.17	0.56
monte	260	LAV-200	Q200	554.00	188.23	196.09	194.75	-1.34	200.00	3.91	193.54	196.75	0.001555	3.58	154.76	26.46	0.47
monte	260	LAV-200	Q500	804.00	188.23	198.36	194.75	-3.61	200.00	1.64	194.75	199.07	0.001285	3.73	215.69	27.35	0.42
monte	250	LAV-199	Q50	314.00	187.89	193.65	192.35	-1.30	200.00	6.35	191.40	194.00	0.001066	2.63	119.47	26.76	0.40
monte	250	LAV-199	Q200	554.00	187.89	196.18	192.35	-3.83	200.00	3.82	192.67	196.62	0.000888	2.93	189.23	28.45	0.36
monte	250	LAV-199	Q500	804.00	187.89	198.44	192.35	-6.09	200.00	1.56	193.71	198.95	0.000814	3.15	255.33	29.96	0.34
monte	240	LAV-198	Q50	314.00	187.41	193.29	192.35	-0.94	196.00	2.71	191.79	193.93	0.002501	3.55	88.44	22.16	0.57
monte	240	LAV-198	Q200	554.00	187.41	195.90	192.35	-3.55	196.00	0.10	193.30	196.56	0.001775	3.61	153.49	27.78	0.49
monte	240	LAV-198	Q500	804.00	187.41	198.21	192.35	-5.86	196.00	-2.21	194.55	198.90	0.001358	3.68	218.26	28.00	0.42
monte	230	LAV-197	Q50	314.00	187.55	193.20	192.19	-1.01	195.00	1.80	191.56	193.90	0.002525	3.72	84.52	18.55	0.56
monte	230	LAV-197	Q200	554.00	187.55	195.62	192.19	-3.43	195.00	-0.62	193.13	196.52	0.002306	4.20	132.04	20.27	0.52
monte	230	LAV-197	Q500	804.00	187.55	197.78	192.19	-5.59	195.00	-2.78	194.49	198.85	0.002223	4.57	175.86	20.27	0.50
monte	220	LAV-196	Q50	380.00	187.57	191.87	191.97	0.10	188.70	-3.17	191.87	193.72	0.008349	6.03	62.98	16.95	1.00
monte	220	LAV-196	Q200	671.00	187.57	193.58	191.97	-1.61	188.70	-4.88	193.58	196.28	0.008858	7.29	92.10	17.00	1.00
monte	220	LAV-196	Q500	971.00	187.57	195.10	191.97	-3.13	188.70	-6.40	195.10	198.55	0.009436	8.24	117.89	17.00	1.00
monte	215	LAV-195	Q50	380.00	187.00	190.38	192.80	2.42	190.50	0.12	191.28	193.33	0.024139	7.61	49.94	25.70	1.74
monte	215	LAV-195	Q200	671.00	187.00	191.16	192.80	1.64	190.50	-0.66	192.58	195.79	0.026579	9.53	70.40	26.97	1.88
monte	215	LAV-195	Q500	971.00	187.00	191.81	192.80	0.99	190.50	-1.31	193.66	197.96	0.028281	10.99	88.38	28.04	1.98
monte	210	LAV-194	Q50	380.00	186.54	189.91	192.80	2.89	190.49	0.58	190.85	192.97	0.025289	7.76	48.98	25.28	1.78

HEC-RAS Plan: pres River: lavagna Reach: monte (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	210	LAV-194	Q200	671.00	186.54	190.71	192.80	2.09	190.49	-0.22	192.14	195.41	0.026701	9.62	70.17	27.39	1.89
monte	210	LAV-194	Q500	971.00	186.54	191.37	192.80	1.43	190.49	-0.88	193.24	197.57	0.027416	11.05	88.65	28.39	1.98
monte	200	LAV-193	Q50	380.00	186.90	189.82	199.16	9.34	191.02	1.20	190.44	192.17	0.014884	6.79	56.00	23.19	1.39
monte	200	LAV-193	Q200	671.00	186.90	190.81	199.16	8.35	191.02	0.21	191.84	194.44	0.016095	8.43	79.58	24.28	1.49
monte	200	LAV-193	Q500	971.00	186.90	191.60	199.16	7.57	191.02	-0.57	193.05	196.51	0.017748	9.83	98.82	24.93	1.58

Piano di bacino torrente Lavagna

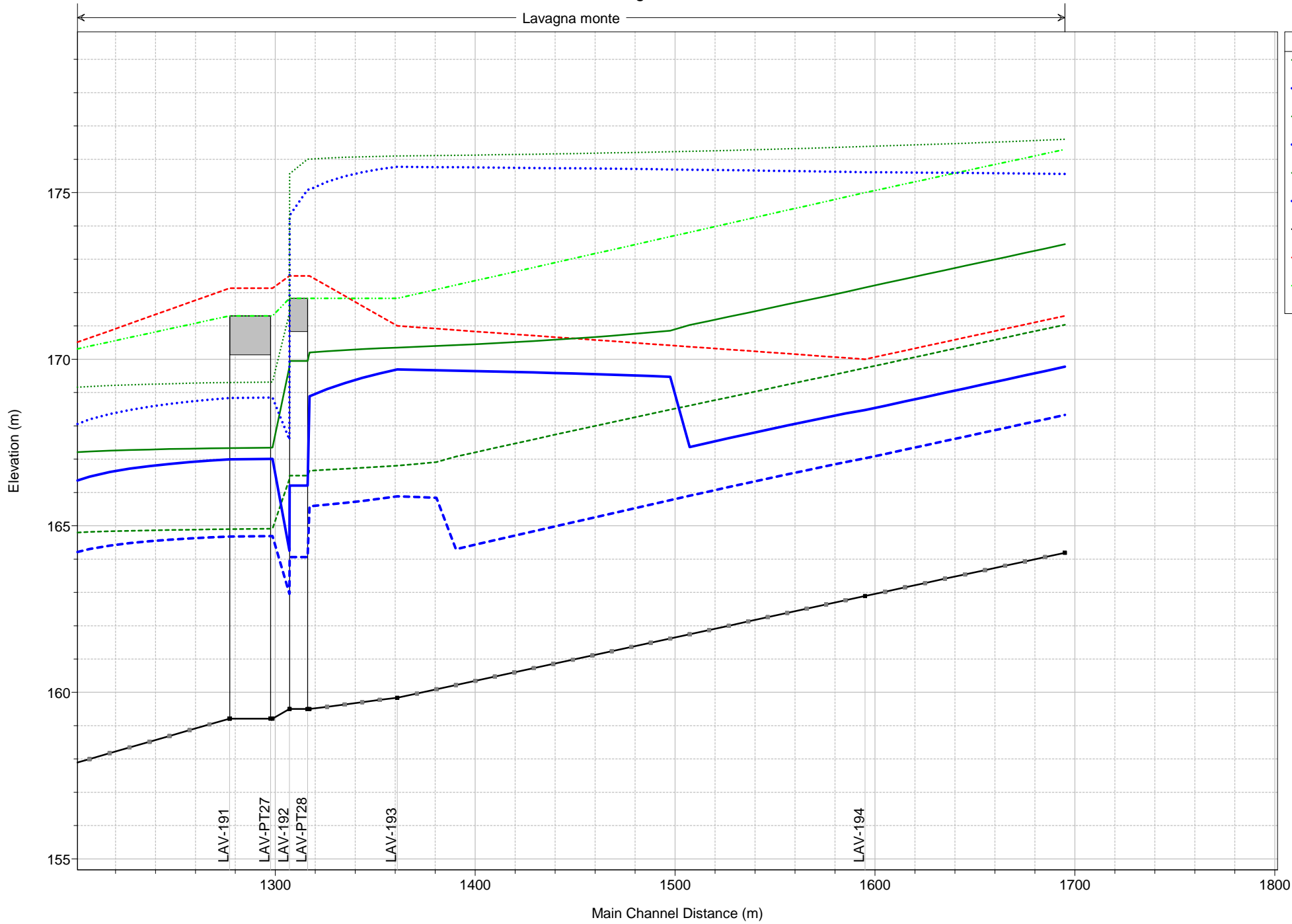
T. Lavagna

tratto a monte t. Neirone – dalla sez. LAV193 alla LAV177

- **Profili idraulici**
- **Sezioni**
- **Tabelle dei risultati**

Torrente Lavagna Plan: Plan01_sett14

Lavagna monte

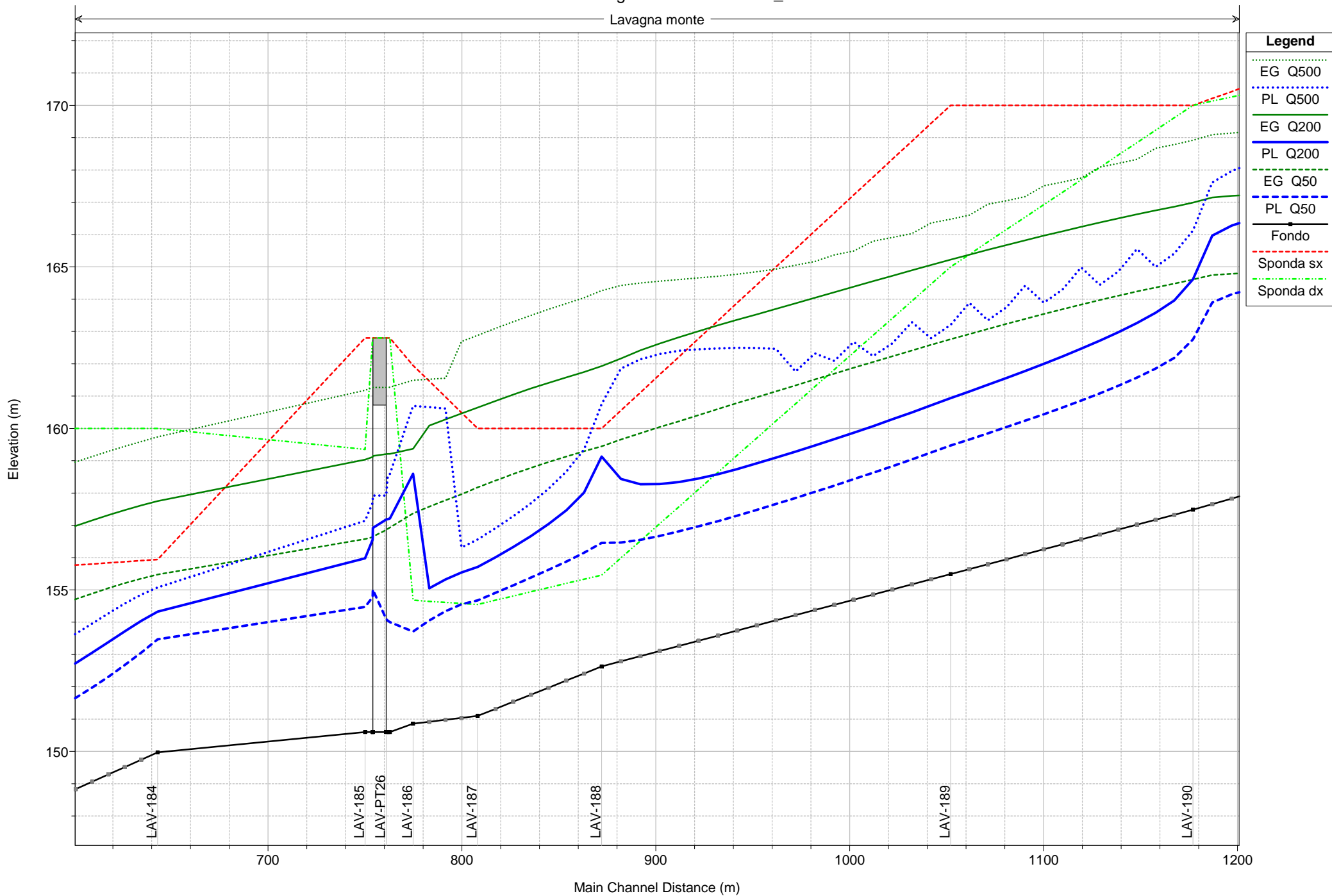


Legend	
EG Q500	(Dotted green line)
PL Q500	(Dotted blue line)
EG Q200	(Solid green line)
PL Q200	(Solid blue line)
EG Q50	(Dashed green line)
PL Q50	(Dashed blue line)
Fondo	(Solid black line with square markers)
Sponda sx	(Dashed red line)
Sponda dx	(Dotted green line)

1 cm Horiz. = 25 m 1 cm Vert. = 1.5 m

Torrente Lavagna Plan: Plan01_sett14

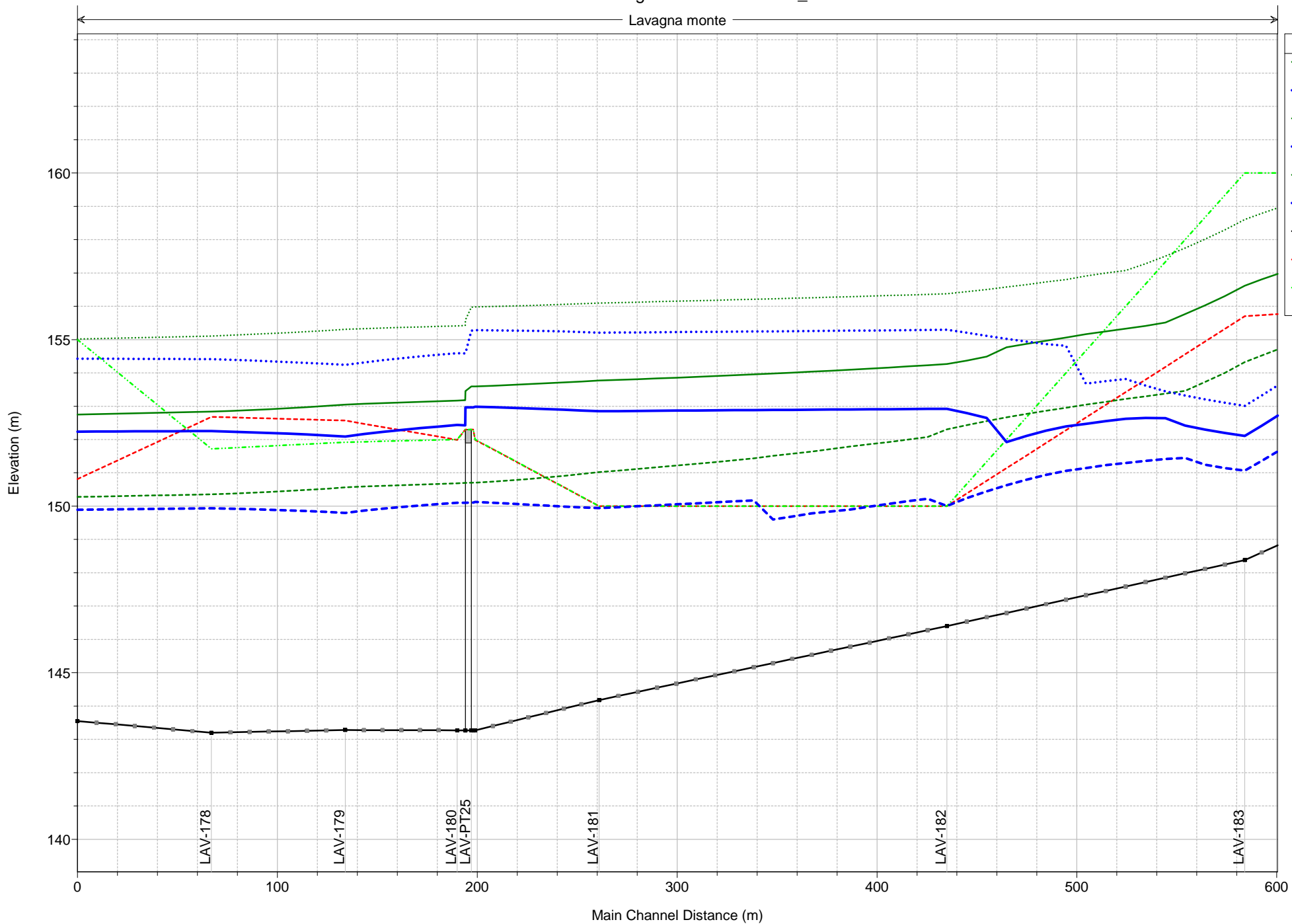
Lavagna monte



1 cm Horiz. = 25 m 1 cm Vert. = 1.5 m

Torrente Lavagna Plan: Plan01_sett14

Lavagna monte

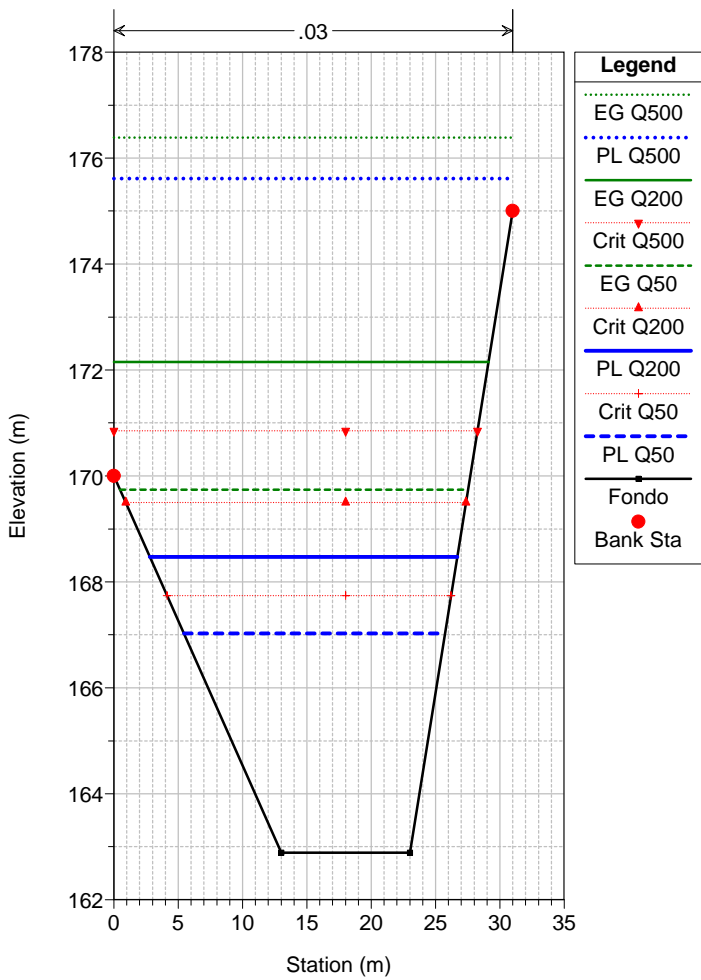


Legend

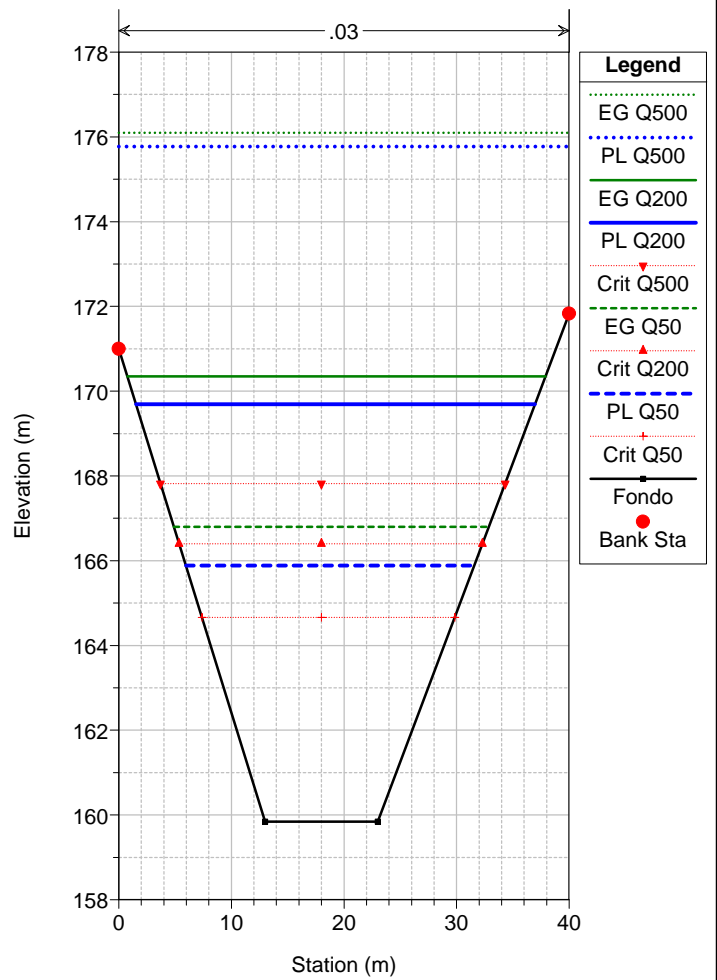
- EG Q500
- PL Q500
- EG Q200
- PL Q200
- EG Q50
- PL Q50
- Fondo
- Sponda sx
- Sponda dx

1 cm Horiz. = 25 m 1 cm Vert. = 1.5 m

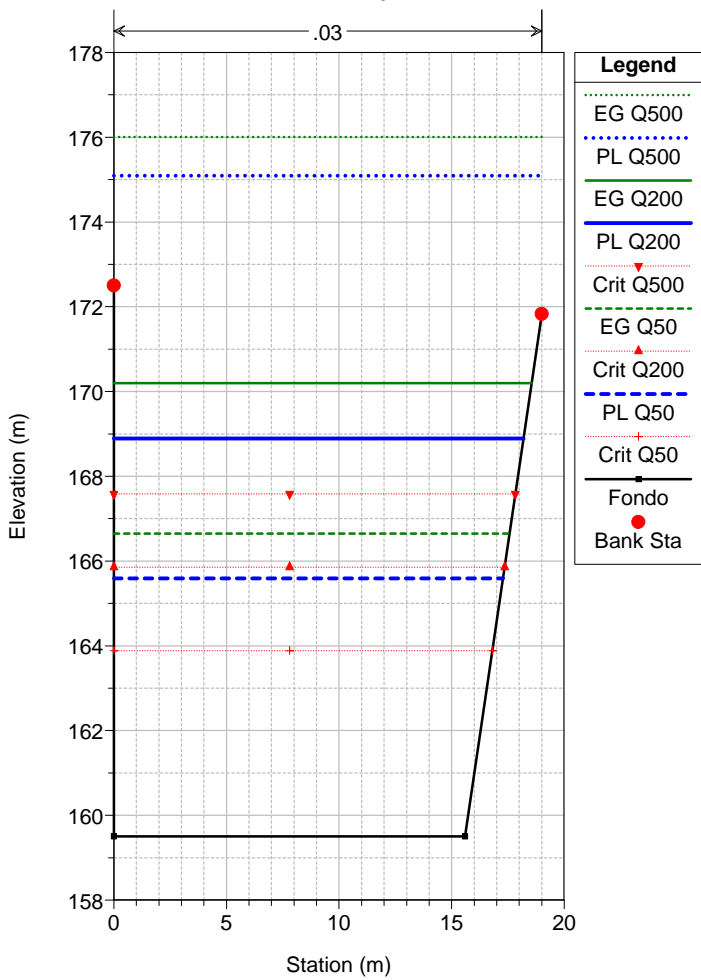
Torrente Lavagna Plan: 01_sett14
LAV-194



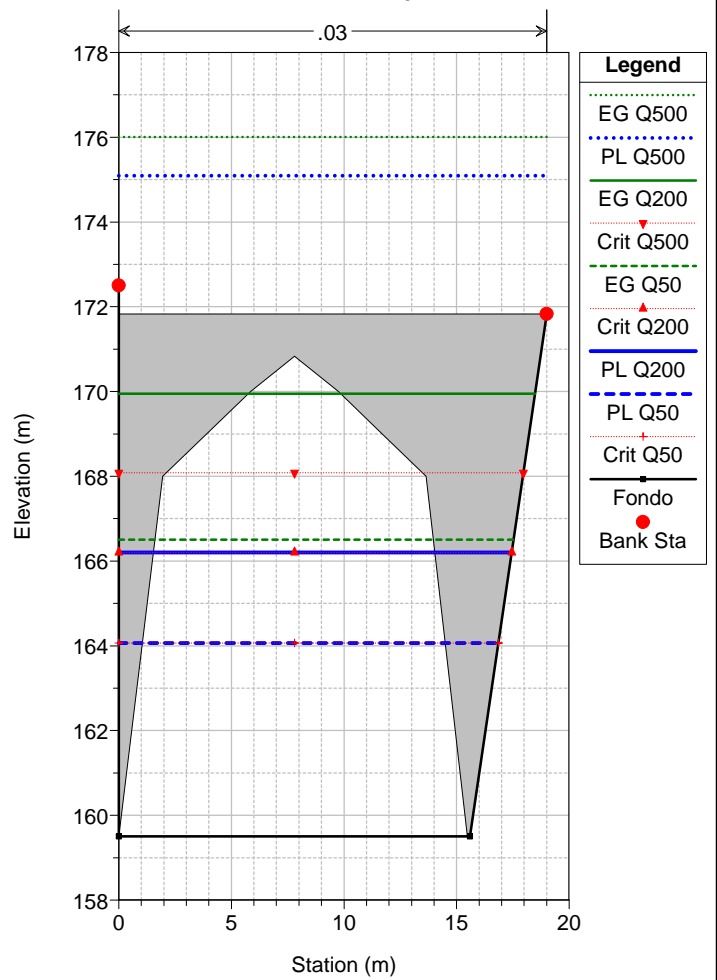
Torrente Lavagna Plan: 01_sett14
LAV-193



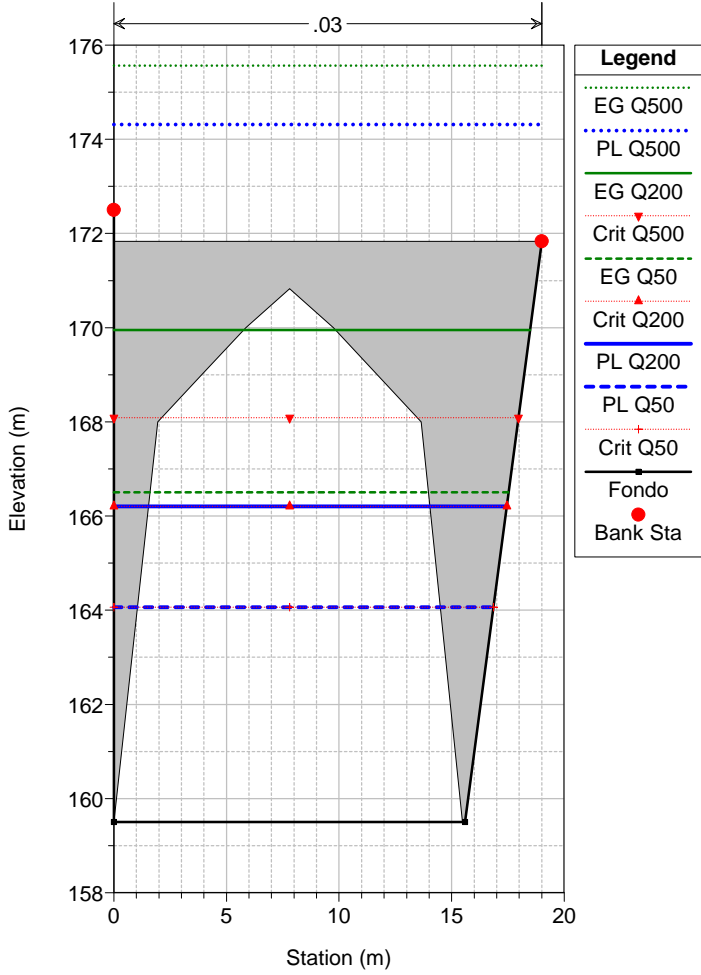
Torrente Lavagna Plan: 01_sett14
LAV-192



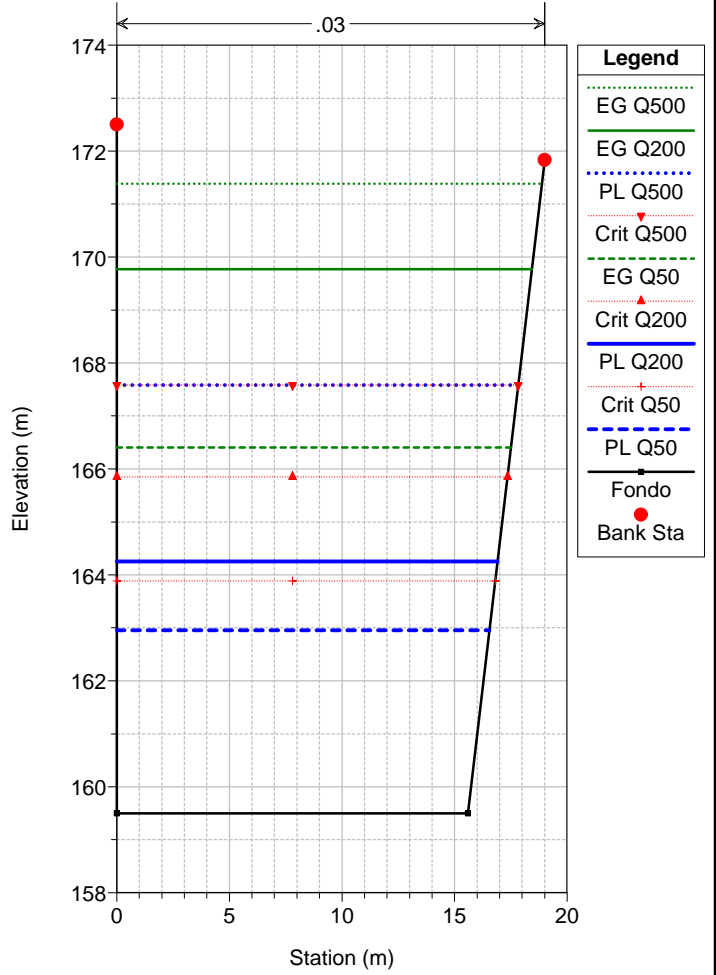
Torrente Lavagna Plan: 01_sett14
LAV-PT28



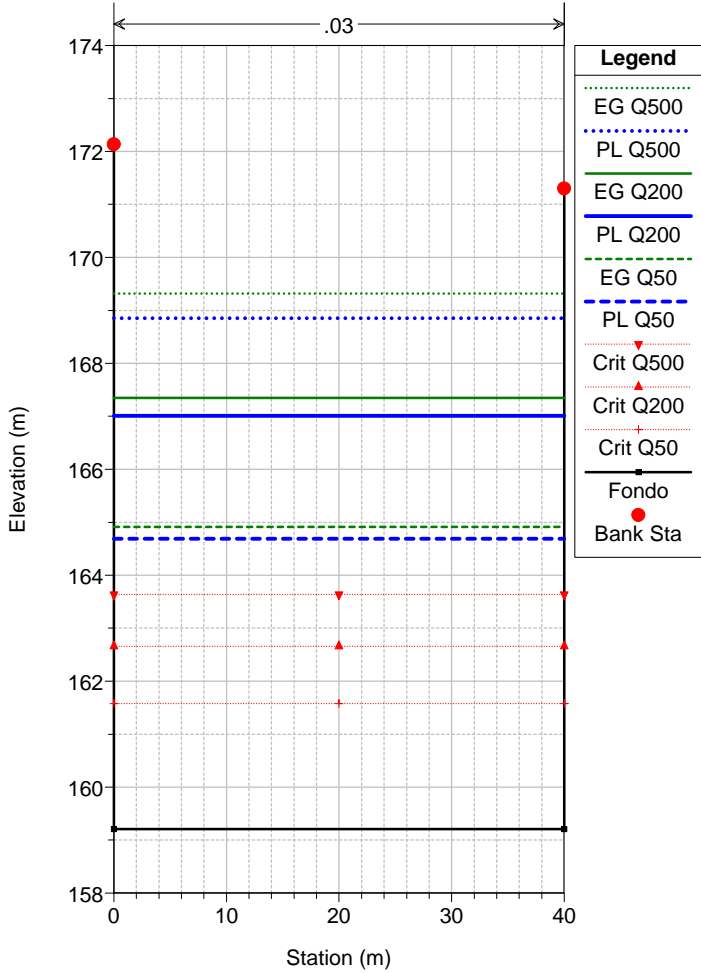
Torrente Lavagna Plan: 01_sett14
LAV-PT28



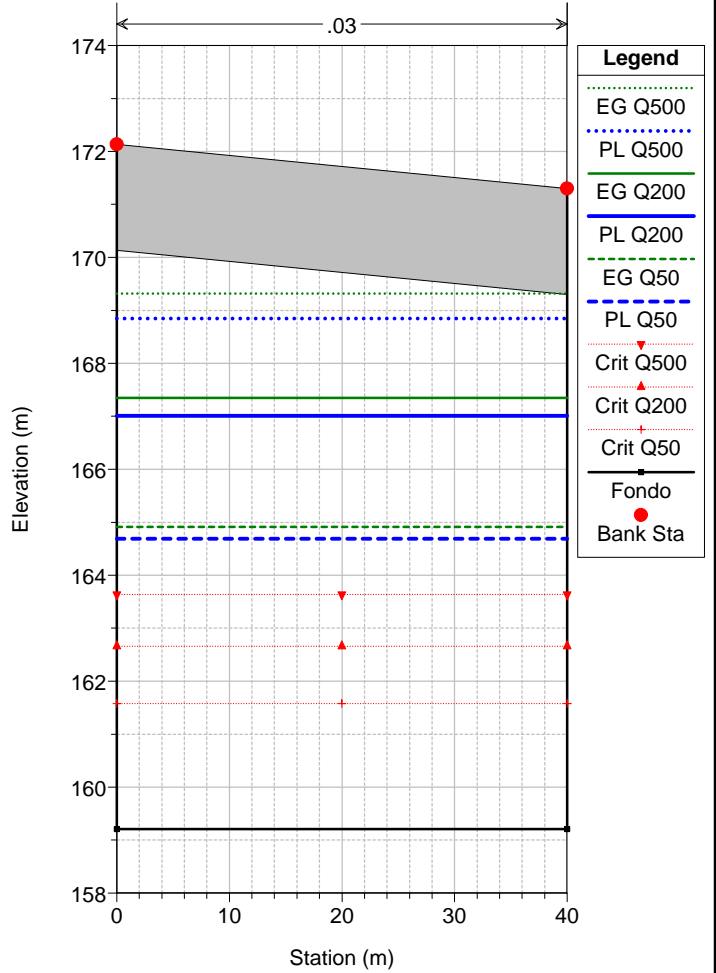
Torrente Lavagna Plan: 01_sett14
LAV-192

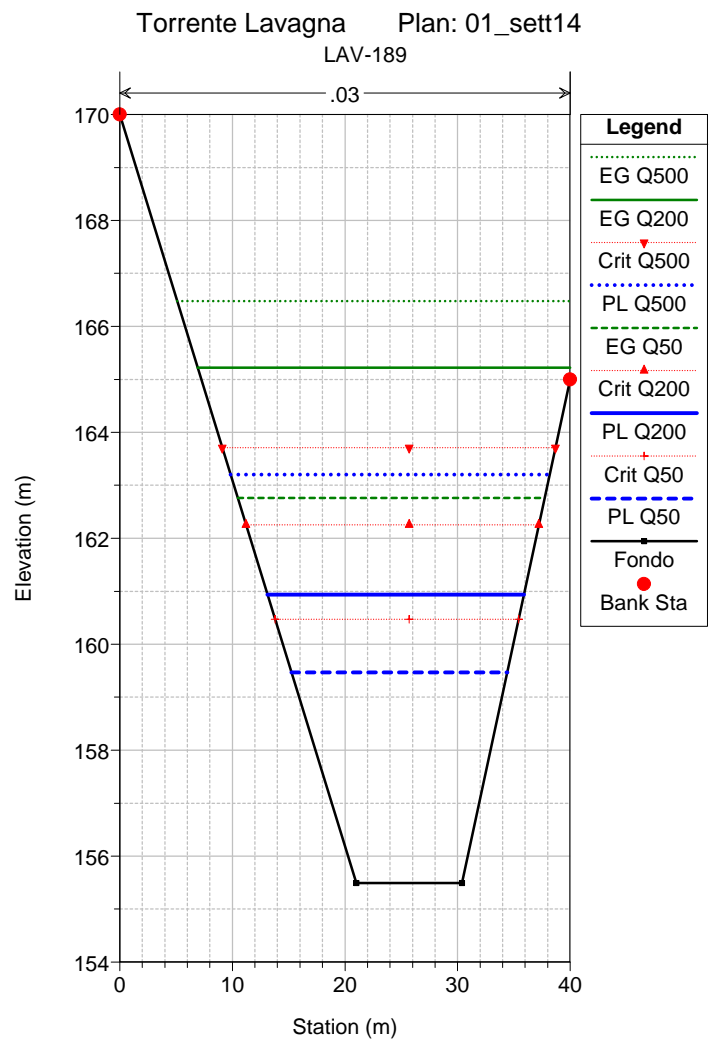
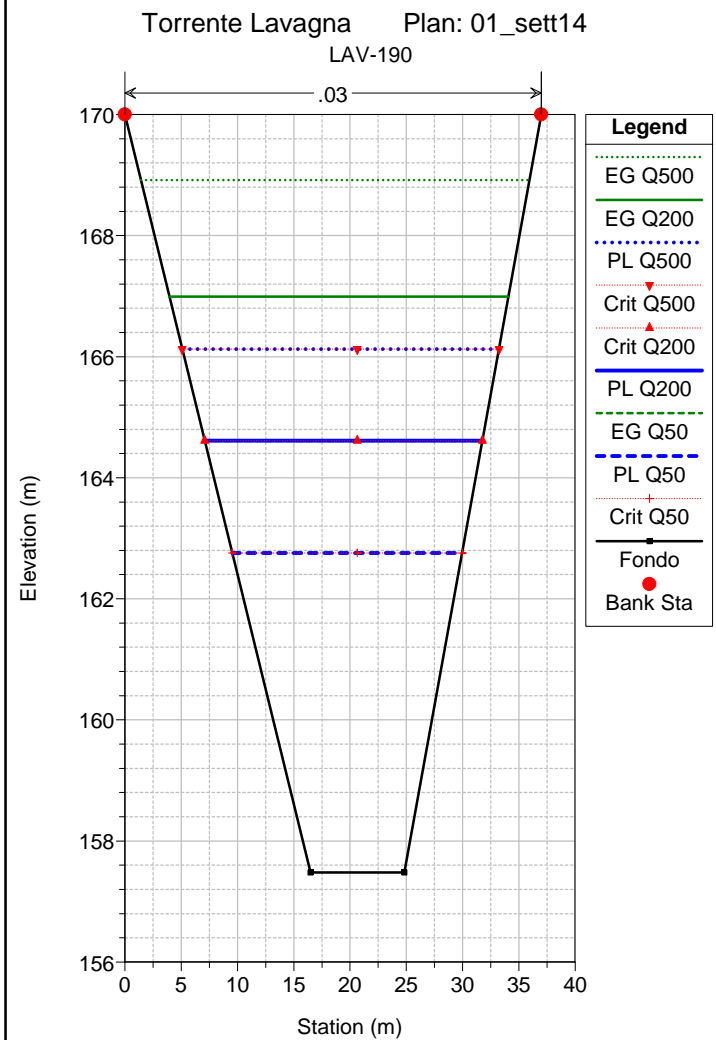
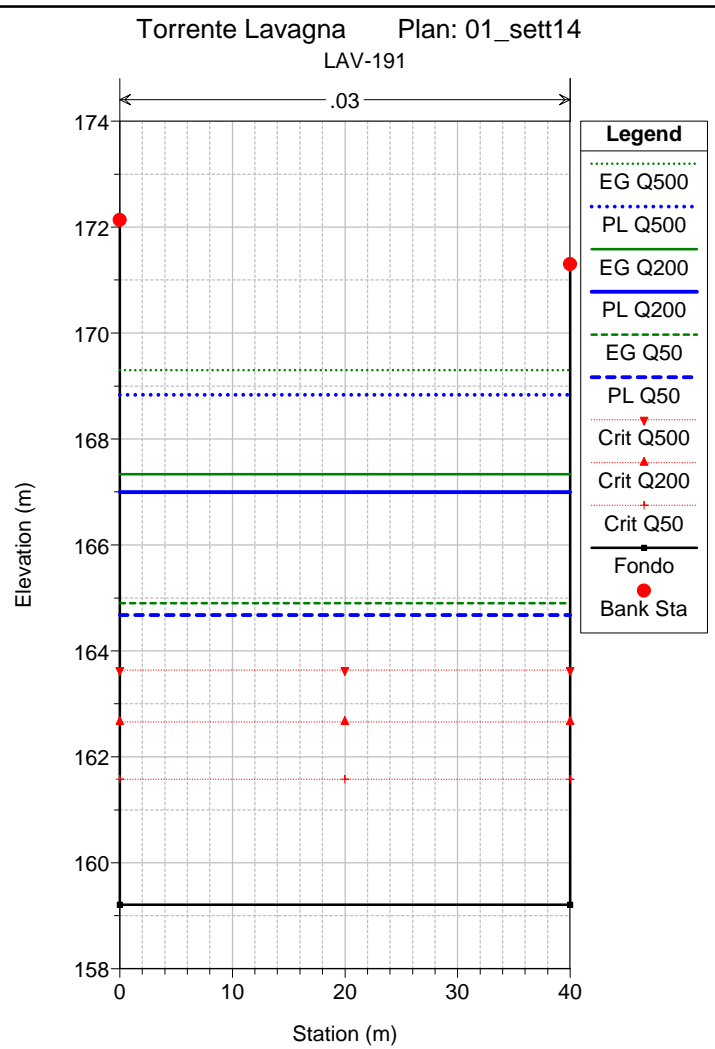
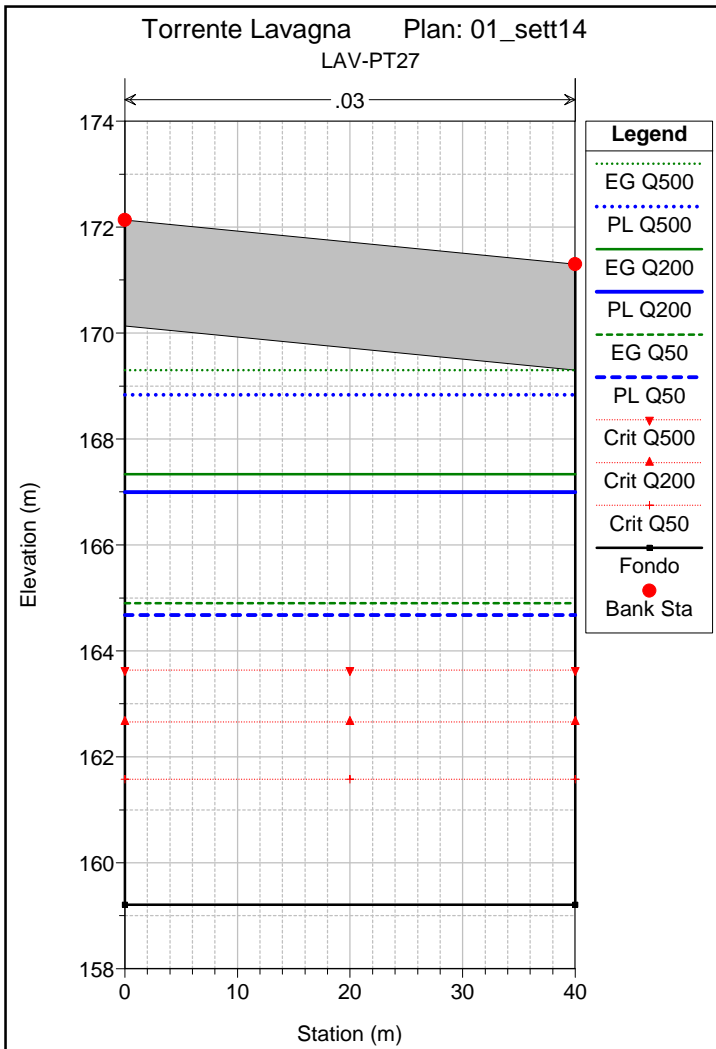


Torrente Lavagna Plan: 01_sett14
LAV-191

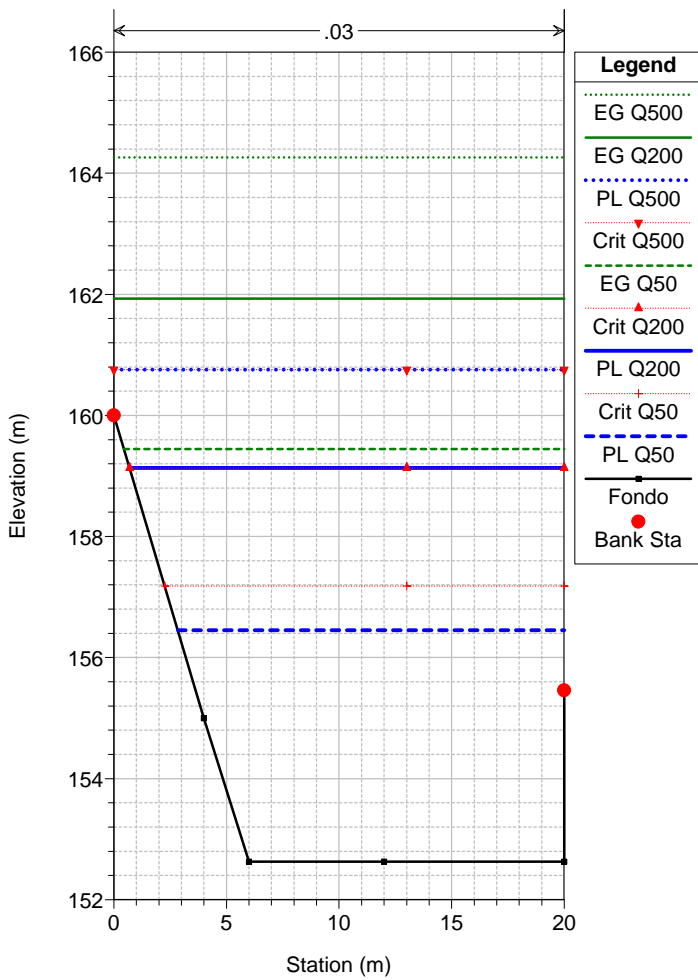


Torrente Lavagna Plan: 01_sett14
LAV-PT27

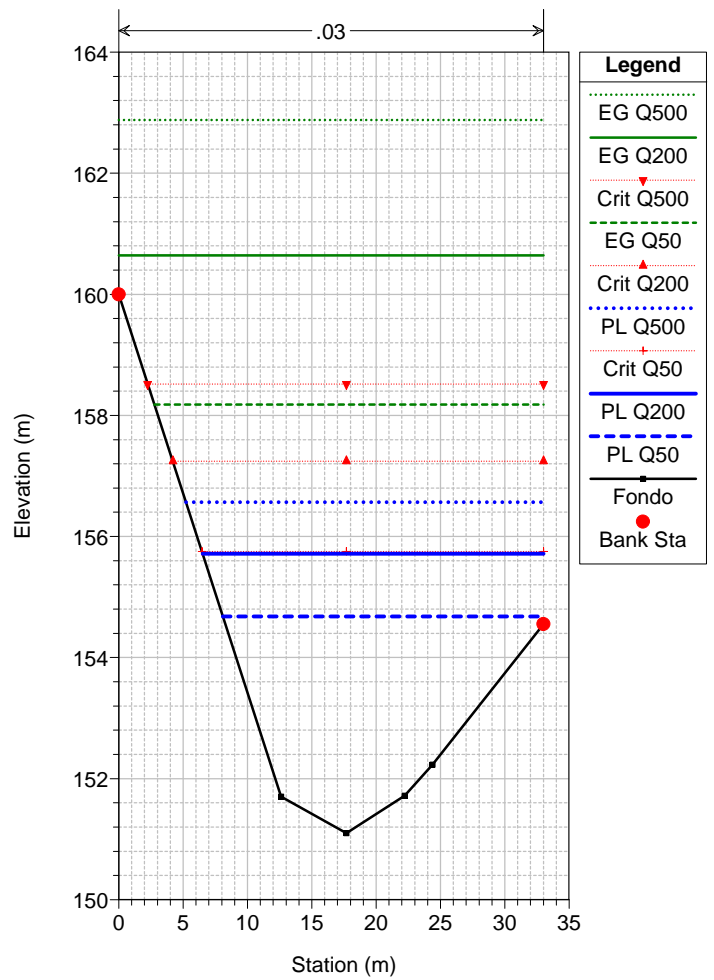




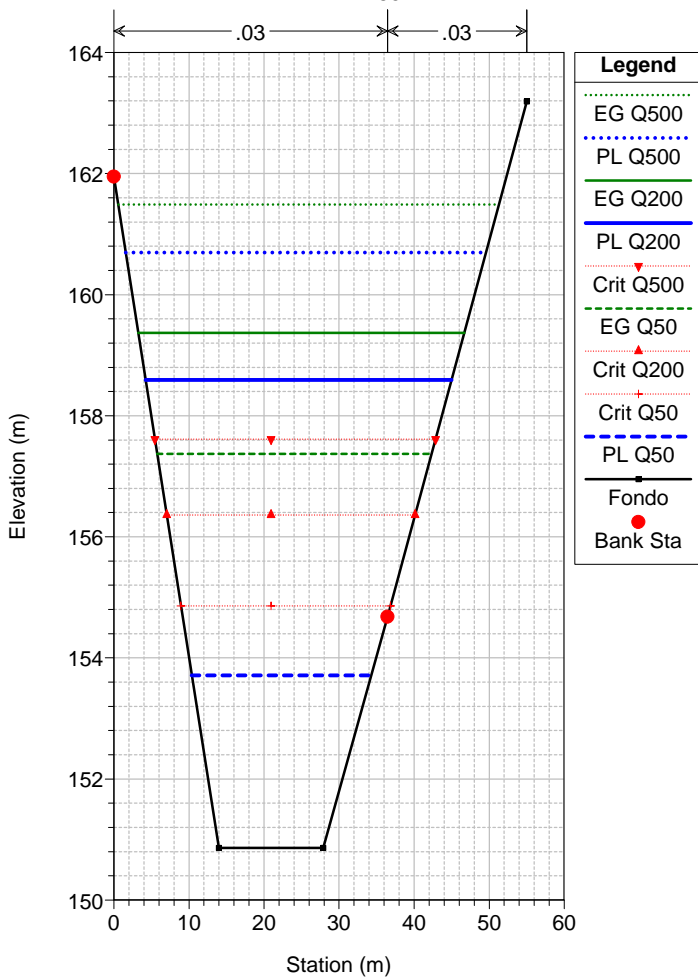
Torrente Lavagna Plan: 01_sett14
LAV-188



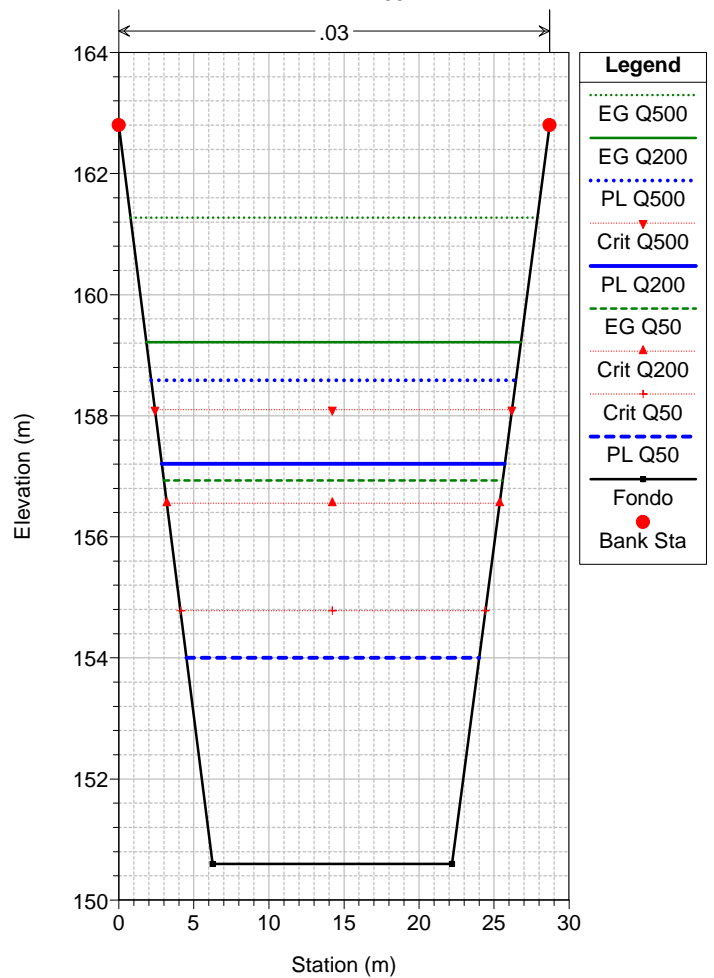
Torrente Lavagna Plan: 01_sett14
LAV-187



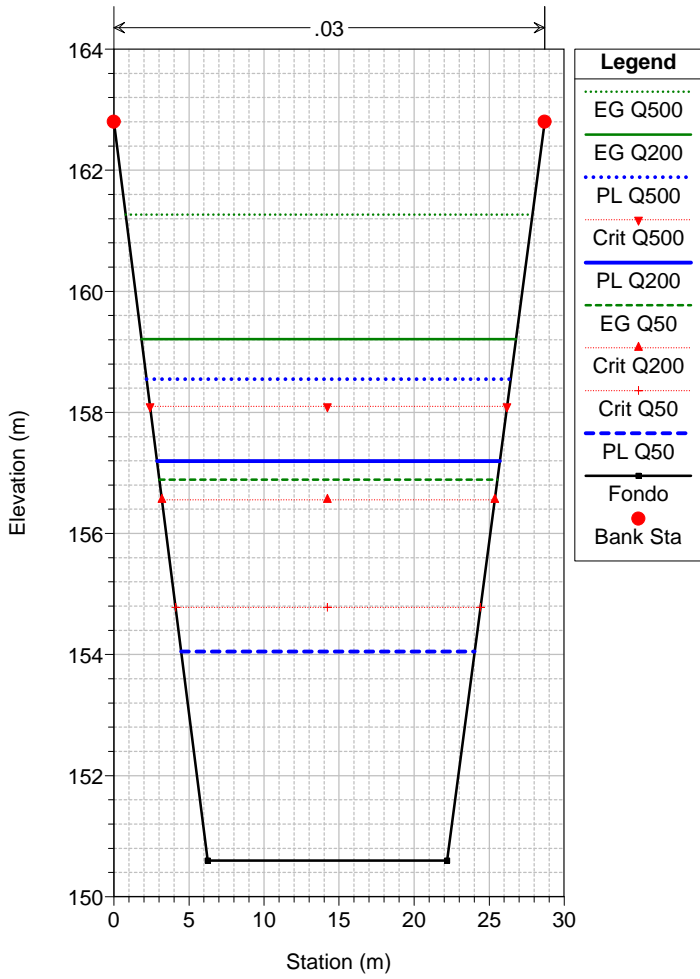
Torrente Lavagna Plan: 01_sett14
LAV-186



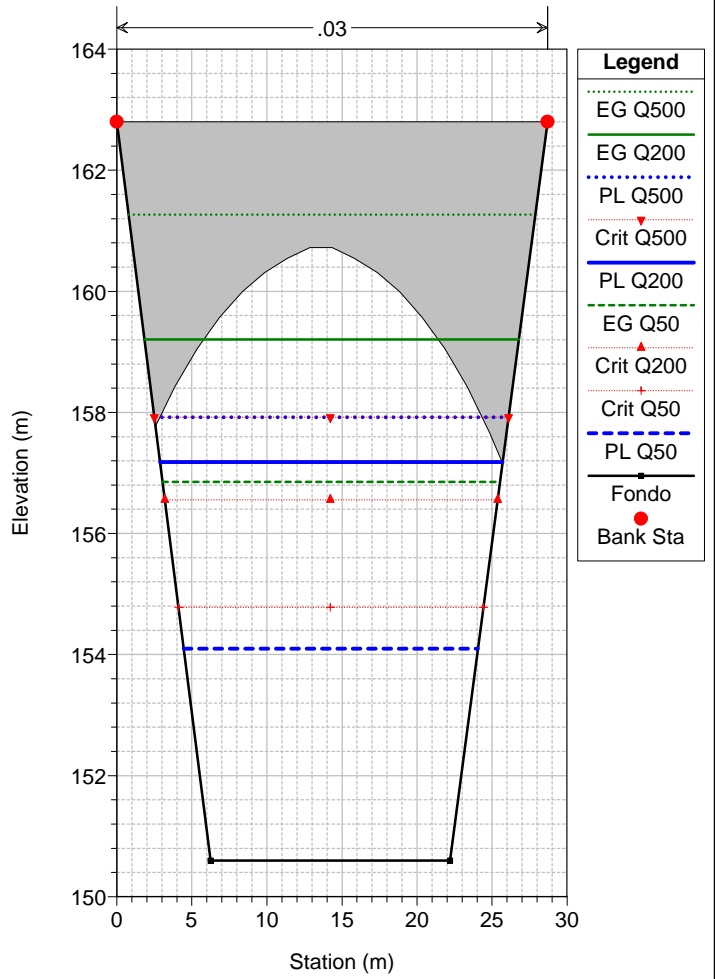
Torrente Lavagna Plan: 01_sett14
LAV-185



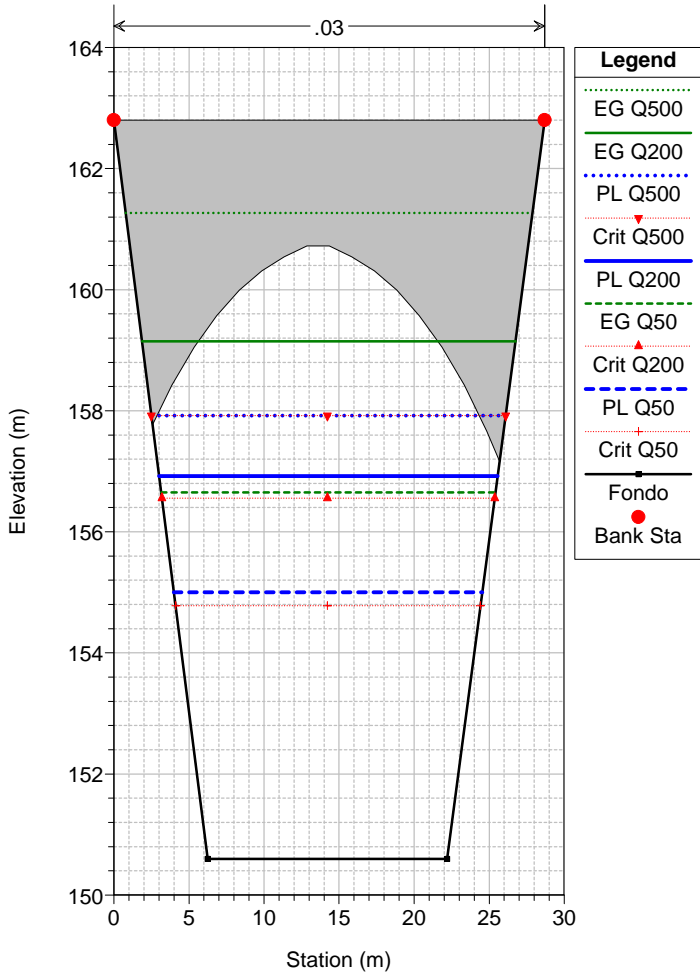
Torrente Lavagna Plan: 01_sett14
LAV-185



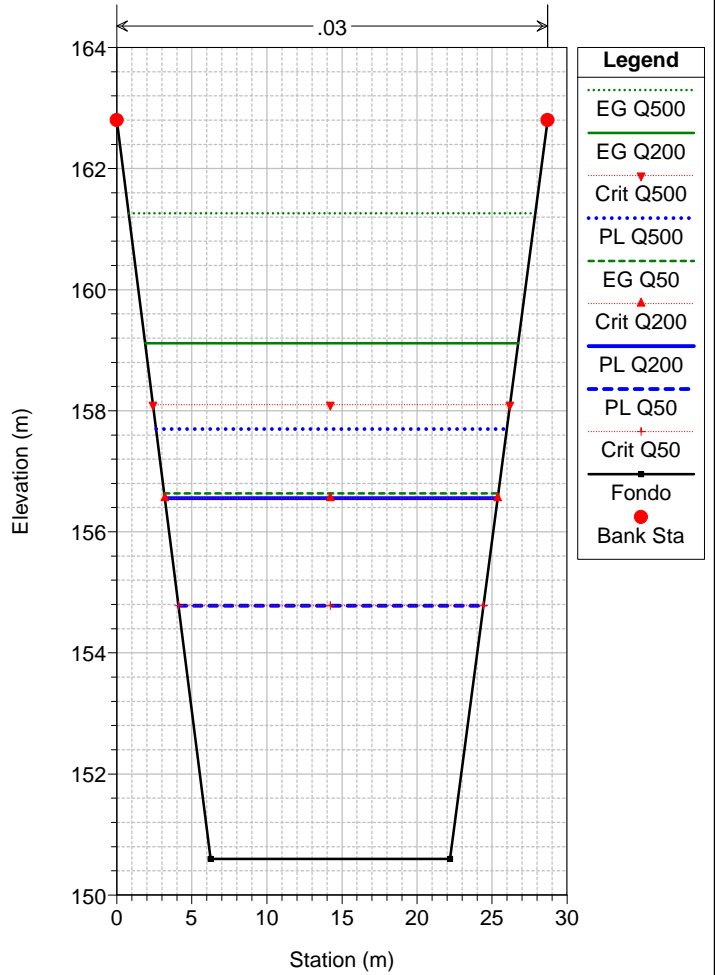
Torrente Lavagna Plan: 01_sett14
LAV-PT26



Torrente Lavagna Plan: 01_sett14
LAV-PT26

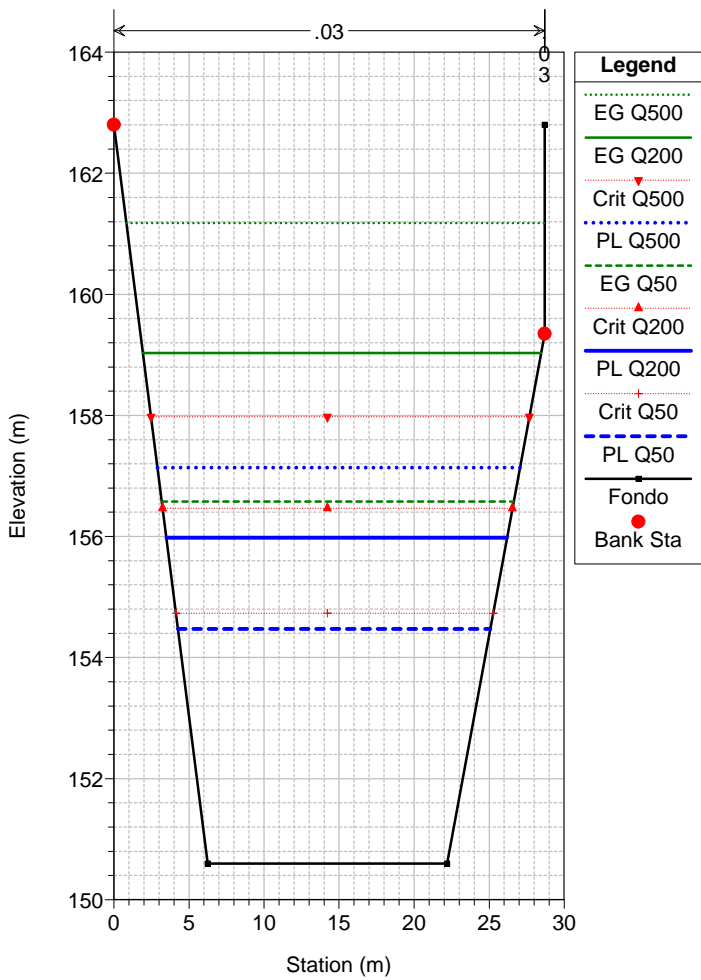


Torrente Lavagna Plan: 01_sett14
LAV-185



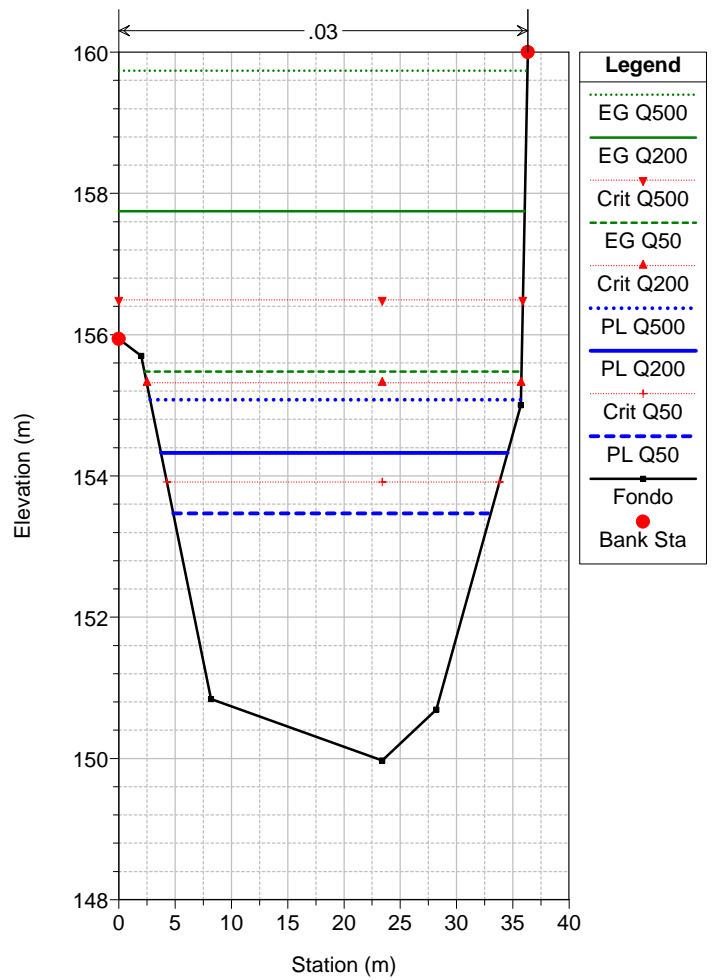
Torrente Lavagna Plan: 01_sett14

LAV-185



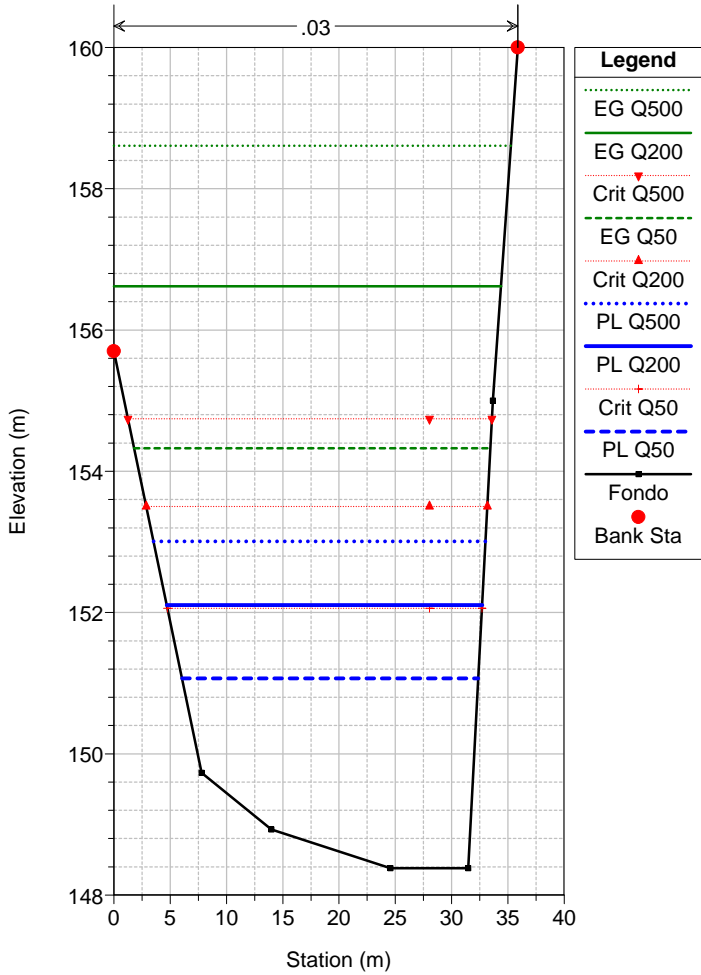
Torrente Lavagna Plan: 01_sett14

LAV-184



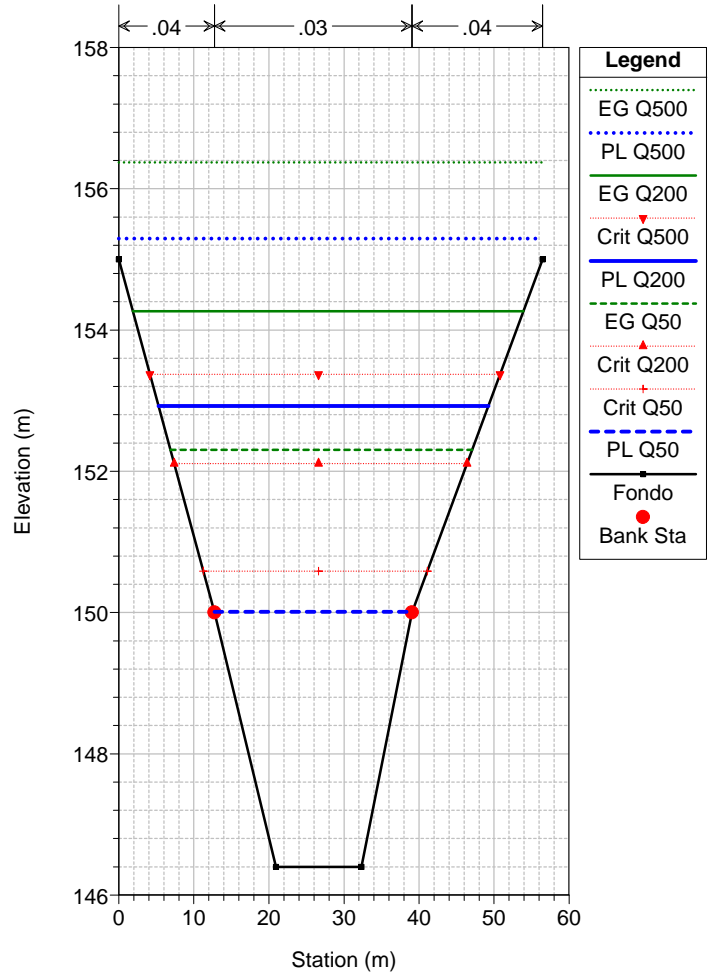
Torrente Lavagna Plan: 01_sett14

LAV-183

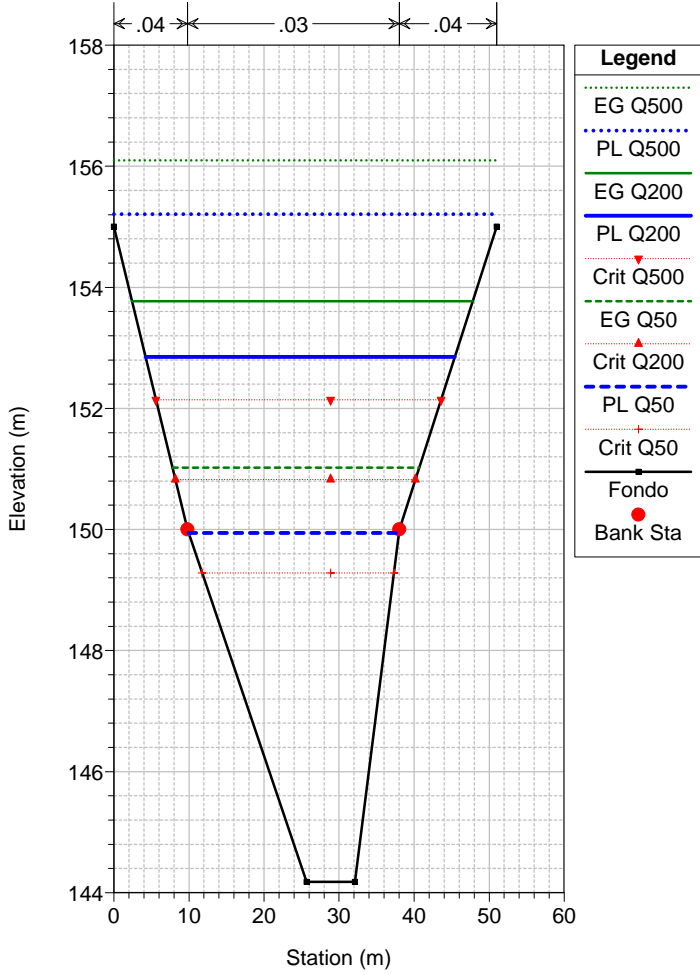


Torrente Lavagna Plan: 01_sett14

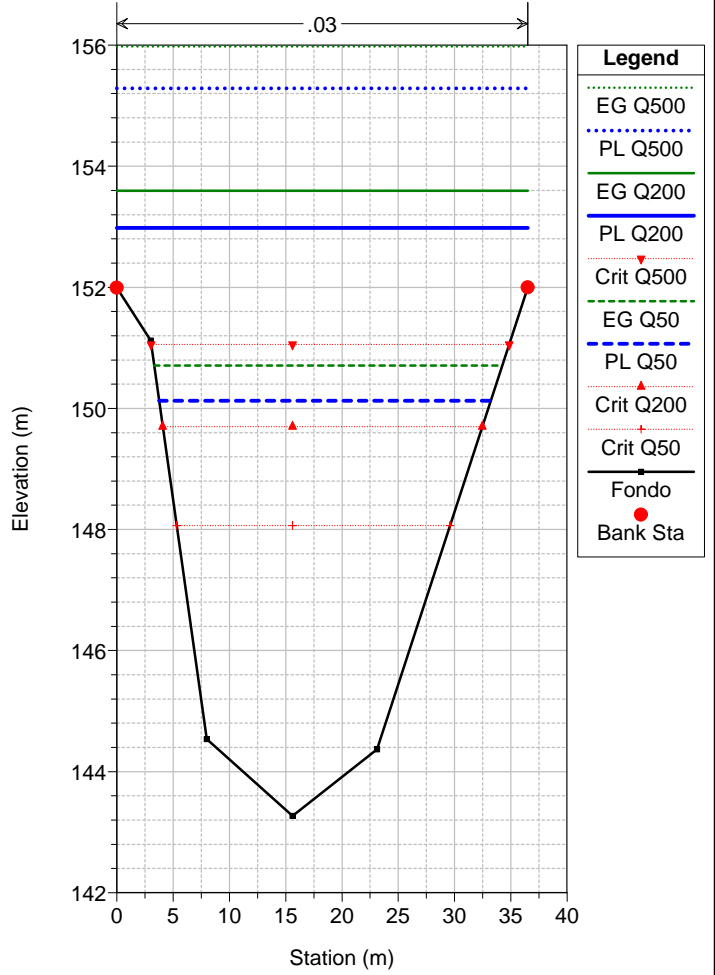
LAV-182



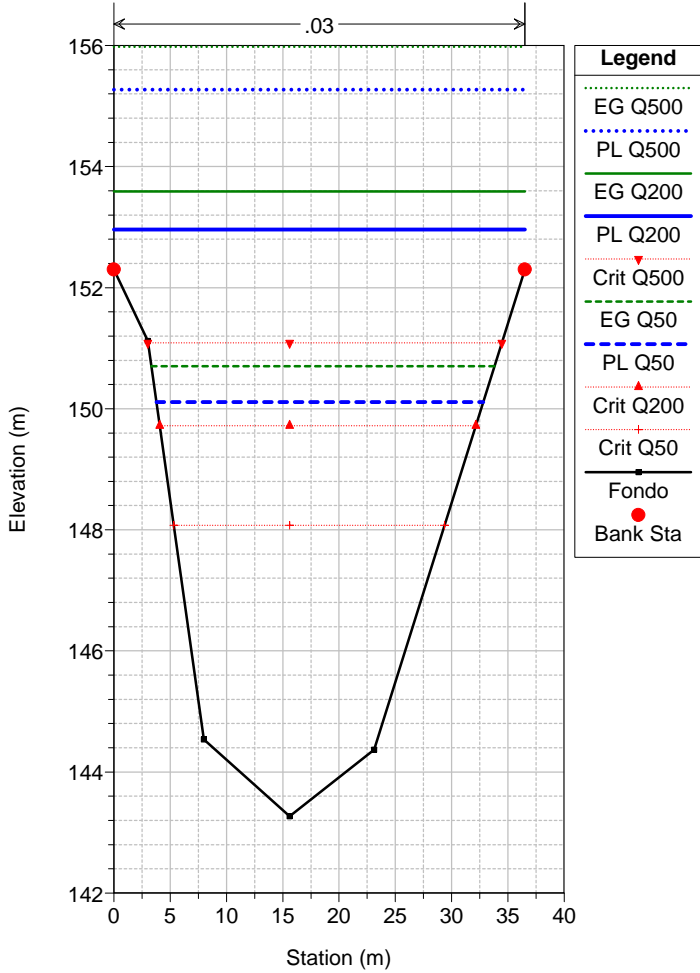
Torrente Lavagna Plan: 01_sett14
LAV-181



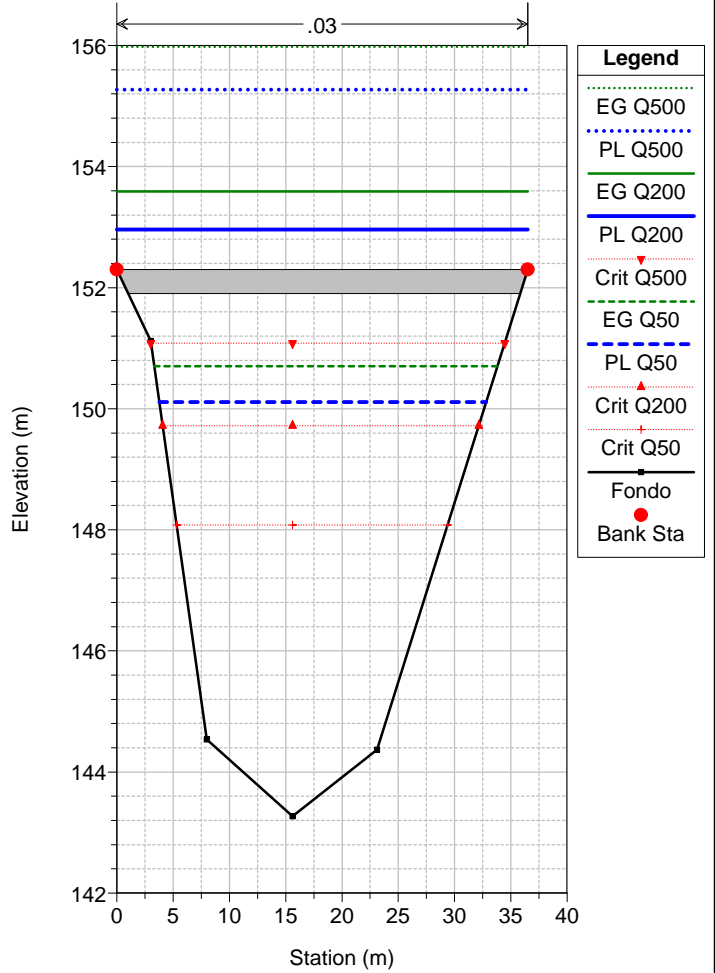
Torrente Lavagna Plan: 01_sett14
LAV-180



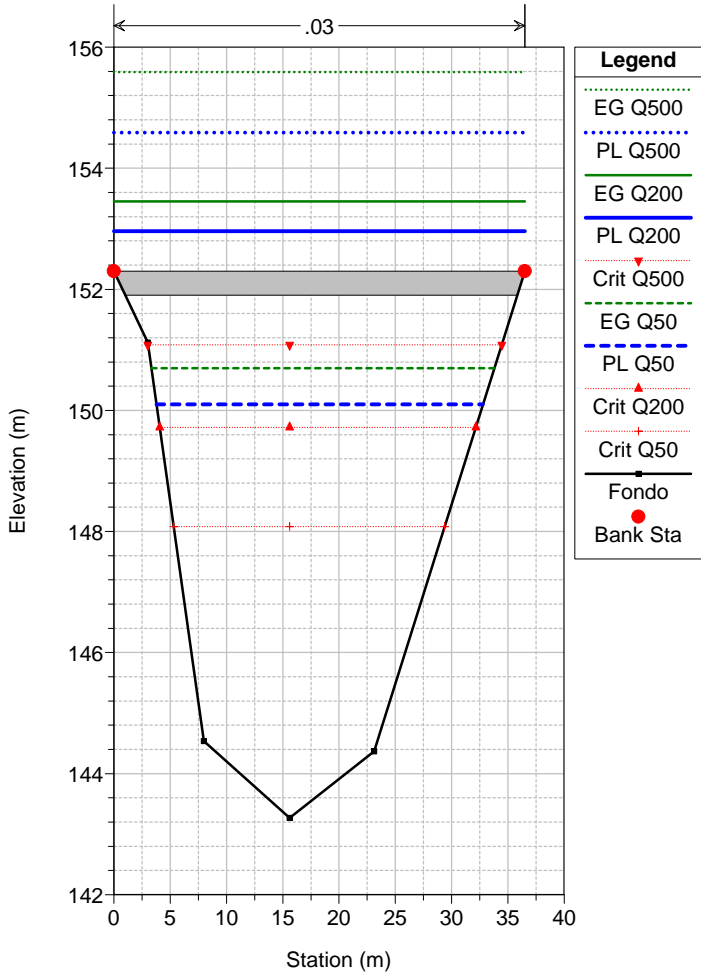
Torrente Lavagna Plan: 01_sett14
LAV-180



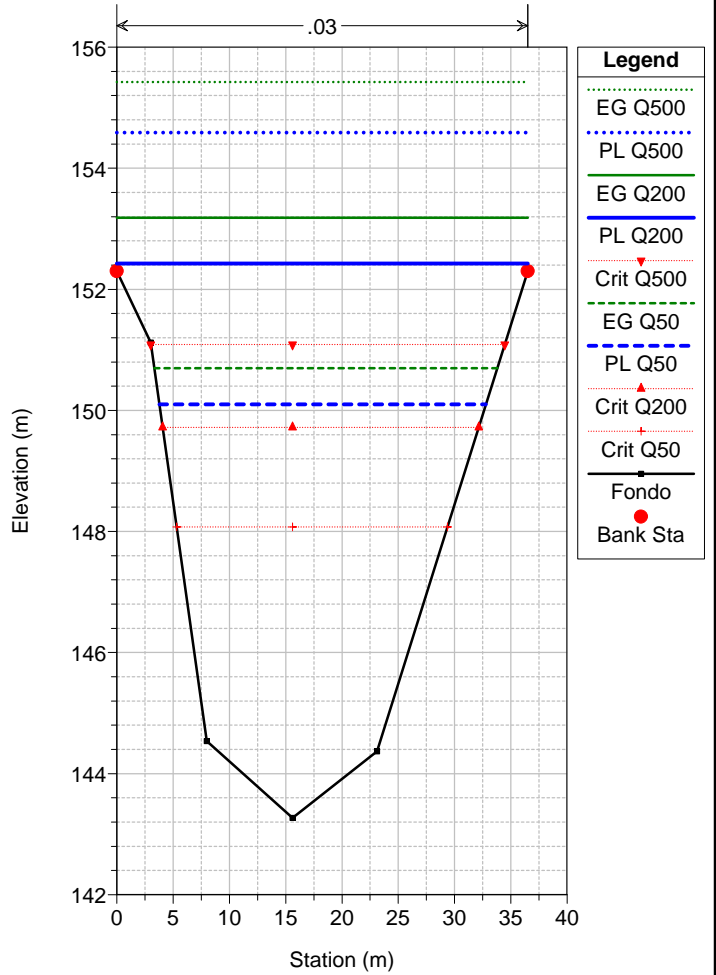
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LAV-PT25



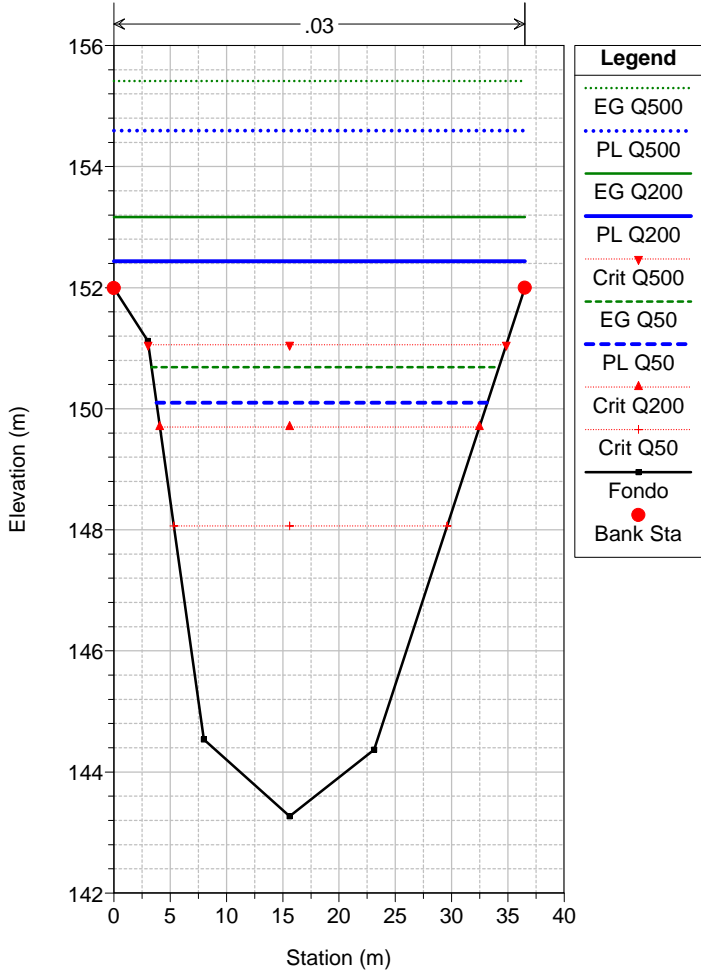
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LAV-PT25



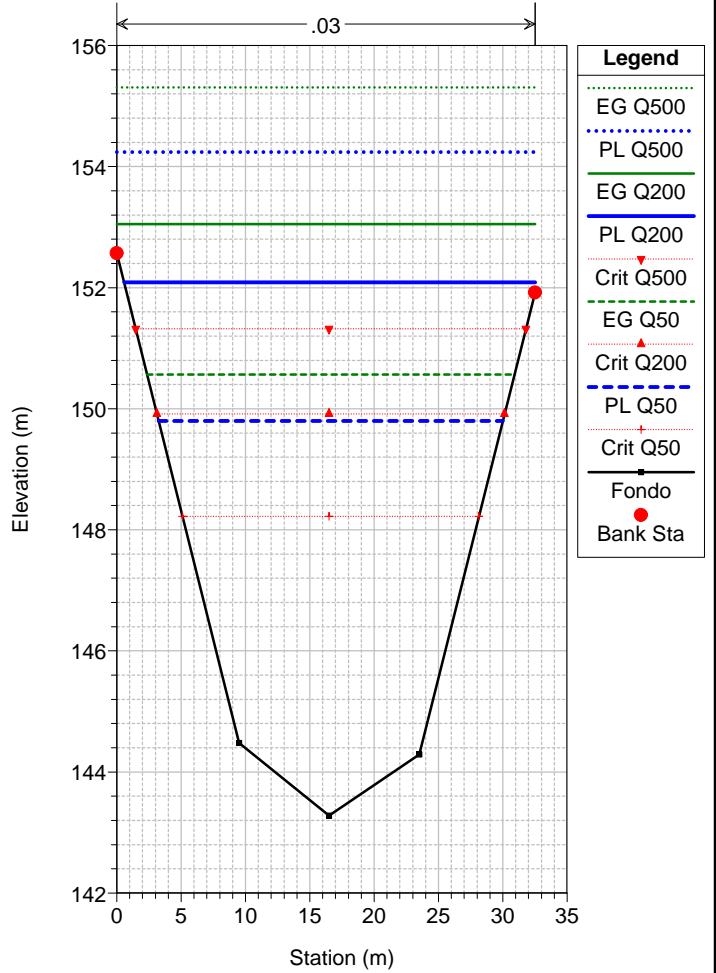
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LAV-180



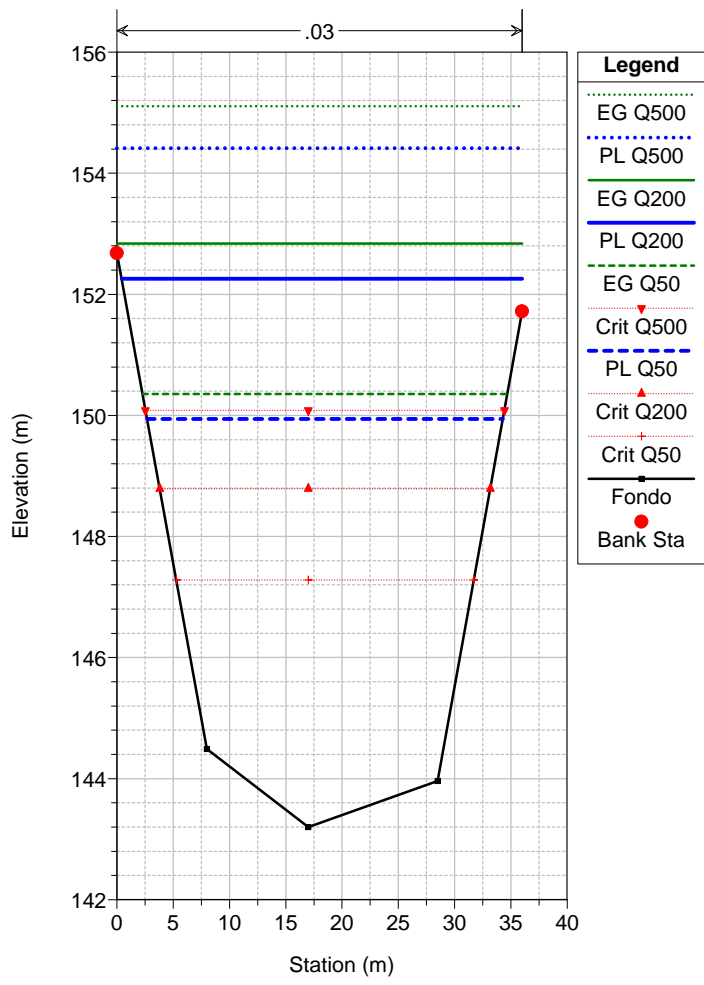
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LAV-180



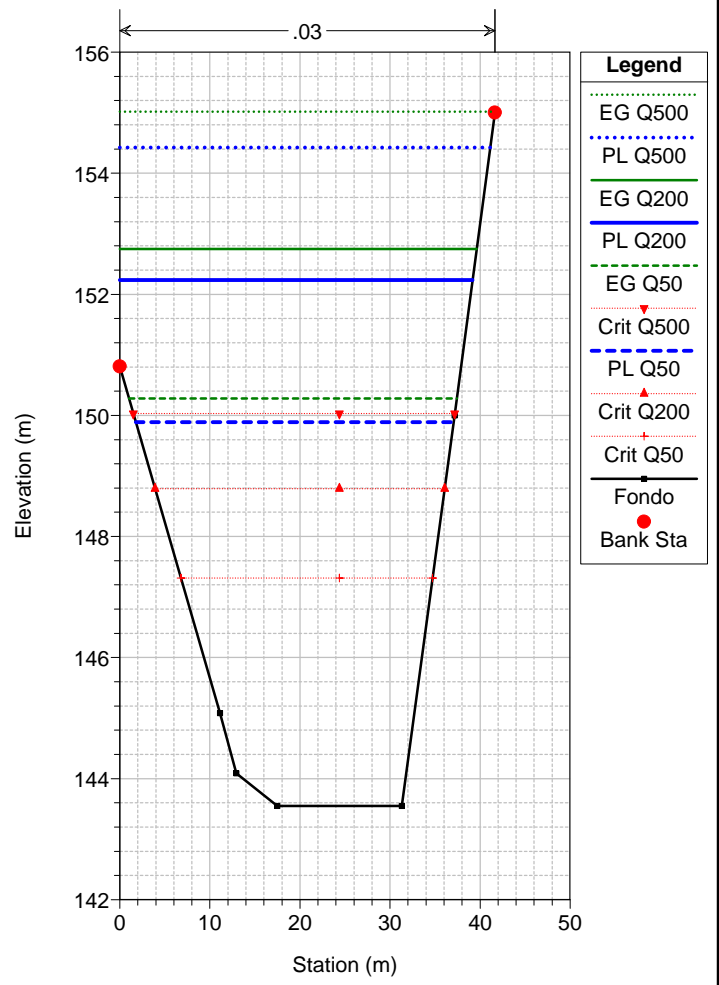
Torrente Lavagna Plan: 01_sett14
LAV-179



Torrente Lavagna Plan: 01_sett14
LAV-178



Torrente Lavagna Plan: 01_sett14
LAV-177



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	240	Q50	457.00	164.19	168.33	171.30	2.97	176.30	7.97	169.04	171.04	0.013003	7.29	62.66	20.30	1.32
monte	240	Q200	804.00	164.19	169.77	171.30	1.53	176.30	6.53	170.80	173.45	0.013004	8.49	94.64	23.90	1.36
monte	240	Q500	1167.00	164.19	175.56	171.30	-4.26	176.30	0.74	172.15	176.60	0.001673	4.52	258.02	30.51	0.50
monte	230 LAV-194	Q50	457.00	162.89	167.03	170.00	2.97	175.00	7.97	167.74	169.74	0.013021	7.30	62.63	20.29	1.33
monte	230 LAV-194	Q200	804.00	162.89	168.47	170.00	1.53	175.00	6.53	169.50	172.15	0.013017	8.50	94.61	23.89	1.36
monte	230 LAV-194	Q500	1167.00	162.89	175.61	170.00	-5.61	175.00	-0.61	170.85	176.39	0.001106	3.89	299.76	31.00	0.40
monte	220 LAV-193	Q50	457.00	159.84	165.88	171.00	5.12	171.83	5.95	164.66	166.80	0.002927	4.25	107.59	25.61	0.66
monte	220 LAV-193	Q200	804.00	159.84	169.69	171.00	1.31	171.83	2.14	166.40	170.35	0.001256	3.59	223.84	35.44	0.46
monte	220 LAV-193	Q500	1167.00	159.84	175.78	171.00	-4.78	171.83	-3.95	167.82	176.10	0.000347	2.52	462.97	40.00	0.24
monte	210.2 LAV-192	Q50	457.00	159.50	165.59	172.50	6.91	171.83	6.24	163.89	166.65	0.003435	4.57	100.07	17.28	0.61
monte	210.2 LAV-192	Q200	804.00	159.50	168.89	172.50	3.61	171.83	2.94	165.85	170.20	0.003050	5.07	158.64	18.19	0.55
monte	210.2 LAV-192	Q500	1167.00	159.50	175.09	172.50	-2.59	171.83	-3.26	167.58	176.01	0.001542	4.24	275.30	19.00	0.36
monte	210.1 LAV-PT28		Bridge													
monte	210 LAV-192	Q50	457.00	159.50	162.95	172.50	9.55	171.83	8.88	163.89	166.40	0.018419	8.23	55.54	16.55	1.43
monte	210 LAV-192	Q200	804.00	159.50	164.25	172.50	8.25	171.83	7.58	165.85	169.77	0.021986	10.41	77.25	16.91	1.55
monte	210 LAV-192	Q500	1167.00	159.50	167.58	172.50	4.92	171.83	4.25	167.58	171.38	0.009863	8.64	135.13	17.83	1.00
monte	200.2 LAV-191	Q50	457.00	159.21	164.69	172.13	7.44	171.30	6.61	161.58	164.91	0.000559	2.09	219.17	40.00	0.28
monte	200.2 LAV-191	Q200	804.00	159.21	167.01	172.13	5.12	171.30	4.29	162.66	167.35	0.000600	2.58	311.94	40.00	0.29
monte	200.2 LAV-191	Q500	1167.00	159.21	168.85	172.13	3.28	171.30	2.45	163.64	169.32	0.000679	3.03	385.56	40.00	0.31
monte	200.1 LAV-PT27		Bridge													
monte	200 LAV-191	Q50	457.00	159.21	164.68	172.13	7.45	171.30	6.62	161.58	164.90	0.000564	2.09	218.64	40.00	0.29
monte	200 LAV-191	Q200	804.00	159.21	166.99	172.13	5.14	171.30	4.31	162.66	167.33	0.000603	2.58	311.37	40.00	0.30
monte	200 LAV-191	Q500	1167.00	159.21	168.83	172.13	3.30	171.30	2.47	163.64	169.30	0.000682	3.03	384.91	40.00	0.31
monte	190 LAV-190	Q50	457.00	157.48	162.76	170.00	7.24	170.00	7.24	162.76	164.60	0.007210	6.03	75.85	20.42	1.00
monte	190 LAV-190	Q200	804.00	157.48	164.61	170.00	5.39	170.00	5.39	164.61	166.99	0.006809	6.83	117.71	24.67	1.00
monte	190 LAV-190	Q500	1167.00	157.48	166.13	170.00	3.87	170.00	3.87	166.13	168.92	0.006552	7.40	157.66	28.13	1.00
monte	180 LAV-189	Q50	457.00	155.49	159.47	170.00	10.53	165.00	5.53	160.47	162.76	0.016444	8.04	56.86	19.18	1.49
monte	180 LAV-189	Q200	804.00	155.49	160.94	170.00	9.06	165.00	4.06	162.25	165.22	0.015513	9.17	87.70	22.79	1.49
monte	180 LAV-189	Q500	1167.00	155.49	163.21	170.00	6.79	165.00	1.79	163.71	166.48	0.008285	8.01	145.64	28.35	1.13
monte	171 LAV-188	Q50	457.00	152.63	156.45	160.00	3.55	155.46	-0.99	157.18	159.45	0.014666	7.67	59.62	17.16	1.31
monte	171 LAV-188	Q200	804.00	152.63	159.13	160.00	0.87	155.46	-3.67	159.13	161.93	0.008478	7.41	108.45	19.30	1.00
monte	171 LAV-188	Q500	1167.00	152.63	160.76	160.00	-0.76	155.46	-5.30	160.76	164.26	0.008740	8.30	140.67	20.00	1.00
monte	170.6 LAV-187	Q50	457.00	151.10	154.68	160.00	5.32	154.55	-0.13	155.75	158.18	0.023119	8.29	55.14	24.91	1.78
monte	170.6 LAV-187	Q200	804.00	151.10	155.71	160.00	4.29	154.55	-1.16	157.24	160.65	0.022188	9.84	81.71	26.48	1.79
monte	170.6 LAV-187	Q500	1167.00	151.10	156.56	160.00	3.44	154.55	-2.01	158.52	162.88	0.022648	11.14	104.80	27.78	1.83
monte	170.5 LAV-186	Q50	457.00	150.86	153.71	161.95	8.24	154.68	0.97	154.86	157.37	0.023808	8.47	53.94	23.92	1.80
monte	170.5 LAV-186	Q200	804.00	150.86	158.59	161.95	3.36	154.68	-3.91	156.36	159.37	0.001467	3.96	211.85	40.76	0.51
monte	170.5 LAV-186	Q500	1167.00	150.86	160.69	161.95	1.26	154.68	-6.01	157.61	161.49	0.001156	4.06	305.08	47.98	0.47
monte	170.3 LAV-185	Q50	457.00	150.60	154.00	162.80	8.80	162.80	8.80	154.78	156.93	0.014859	7.59	60.24	19.50	1.38
monte	170.3 LAV-185	Q200	804.00	150.60	157.21	162.80	5.59	162.80	5.59	156.56	159.21	0.005302	6.27	128.18	22.85	0.85
monte	170.3 LAV-185	Q500	1167.00	150.60	158.59	162.80	4.21	162.80	4.21	158.10	161.27	0.005982	7.26	160.65	24.29	0.90

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	170.2 LAV-185	Q50	457.00	150.60	154.05	162.80	8.75	162.80	8.75	154.78	156.89	0.014211	7.47	61.16	19.55	1.35
monte	170.2 LAV-185	Q200	804.00	150.60	157.19	162.80	5.61	162.80	5.61	156.56	159.21	0.005344	6.29	127.82	22.84	0.85
monte	170.2 LAV-185	Q500	1167.00	150.60	158.55	162.80	4.25	162.80	4.25	158.10	161.27	0.006070	7.30	159.79	24.26	0.91
monte	170.15 LAV-PT26	Bridge														
monte	170.1 LAV-185	Q50	457.00	150.60	154.78	162.80	8.02	162.80	8.02	154.78	156.63	0.007635	6.04	75.70	20.31	1.00
monte	170.1 LAV-185	Q200	804.00	150.60	156.56	162.80	6.24	162.80	6.24	156.56	159.11	0.007445	7.08	113.54	22.17	1.00
monte	170.1 LAV-185	Q500	1167.00	150.60	157.70	162.80	5.10	162.80	5.10	158.10	161.26	0.008832	8.37	139.49	23.36	1.09
monte	170.0 LAV-185	Q50	457.00	150.60	154.47	162.80	8.33	159.35	4.88	154.73	156.58	0.009279	6.43	71.11	20.80	1.11
monte	170.0 LAV-185	Q200	804.00	150.60	155.98	162.80	6.82	159.35	3.37	156.47	159.03	0.009693	7.74	103.88	22.69	1.15
monte	170.0 LAV-185	Q500	1167.00	150.60	157.14	162.80	5.66	159.35	2.21	157.98	161.18	0.010636	8.91	131.05	24.15	1.22
monte	160 LAV-184	Q50	457.00	149.97	153.47	155.94	2.47	160.00	6.53	153.92	155.48	0.010808	6.27	72.87	28.20	1.25
monte	160 LAV-184	Q200	804.00	149.97	154.33	155.94	1.61	160.00	5.67	155.32	157.75	0.014169	8.20	98.08	30.78	1.47
monte	160 LAV-184	Q500	1167.00	149.97	155.08	155.94	0.86	160.00	4.92	156.49	159.74	0.015963	9.56	122.05	32.92	1.59
monte	150 LAV-183	Q50	457.00	148.38	151.07	155.70	4.63	160.00	8.93	152.06	154.32	0.023053	8.00	57.14	26.31	1.73
monte	150 LAV-183	Q200	804.00	148.38	152.11	155.70	3.59	160.00	7.89	153.50	156.62	0.021131	9.41	85.45	28.02	1.72
monte	150 LAV-183	Q500	1167.00	148.38	153.01	155.70	2.69	160.00	6.99	154.74	158.61	0.020351	10.48	111.32	29.49	1.72
monte	143 LAV-182	Q50	457.00	146.40	150.01	150.00	-0.01	150.00	-0.01	150.59	152.30	0.012370	6.71	68.10	26.35	1.33
monte	143 LAV-182	Q200	804.00	146.40	152.92	150.00	-2.92	150.00	-2.92	152.11	154.27	0.002784	5.26	170.50	43.93	0.72
monte	143 LAV-182	Q500	1167.00	146.40	155.29	150.00	-5.29	150.00	-5.29	153.37	156.38	0.001491	4.89	291.41	56.46	0.56
monte	142 LAV-181	Q50	457.00	144.18	149.94	150.00	0.06	150.00	0.06	149.28	151.02	0.004096	4.60	99.41	28.04	0.78
monte	142 LAV-181	Q200	804.00	144.18	152.85	150.00	-2.85	150.00	-2.85	150.82	153.77	0.001629	4.31	199.93	41.21	0.54
monte	142 LAV-181	Q500	1167.00	144.18	155.21	150.00	-5.21	150.00	-5.21	152.14	156.10	0.001086	4.33	309.64	51.00	0.47
monte	141.6 LAV-180	Q50	457.00	143.27	150.13	151.99	1.86	152.00	1.87	148.07	150.71	0.001614	3.37	135.55	29.46	0.50
monte	141.6 LAV-180	Q200	804.00	143.27	152.98	151.99	-0.99	152.00	-0.98	149.70	153.59	0.001180	3.47	232.03	36.50	0.44
monte	141.6 LAV-180	Q500	1167.00	143.27	155.29	151.99	-3.30	152.00	-3.29	151.06	155.98	0.001012	3.69	316.10	36.50	0.40
monte	141.5 LAV-180	Q50	457.00	143.27	150.11	152.30	2.19	152.30	2.19	148.08	150.70	0.001654	3.41	133.96	29.03	0.51
monte	141.5 LAV-180	Q200	804.00	143.27	152.96	152.30	-0.66	152.30	-0.66	149.72	153.59	0.001221	3.51	228.82	36.50	0.45
monte	141.5 LAV-180	Q500	1167.00	143.27	155.27	152.30	-2.97	152.30	-2.97	151.09	155.98	0.001035	3.73	313.04	36.50	0.41
monte	141.4 LAV-PT25	Bridge														
monte	141.3 LAV-180	Q50	457.00	143.27	150.10	152.30	2.20	152.30	2.20	148.08	150.70	0.001662	3.42	133.71	29.01	0.51
monte	141.3 LAV-180	Q200	804.00	143.27	152.43	152.30	-0.13	152.30	-0.13	149.72	153.18	0.001589	3.84	209.34	36.50	0.51
monte	141.3 LAV-180	Q500	1167.00	143.27	154.59	152.30	-2.29	152.30	-2.29	151.09	155.42	0.001313	4.05	288.12	36.50	0.46
monte	141.2 LAV-180	Q50	457.00	143.27	150.10	151.99	1.89	152.00	1.90	148.07	150.69	0.001639	3.39	134.79	29.39	0.51
monte	141.2 LAV-180	Q200	804.00	143.27	152.44	151.99	-0.45	152.00	-0.44	149.70	153.17	0.001540	3.79	212.08	36.50	0.50
monte	141.2 LAV-180	Q500	1167.00	143.27	154.59	151.99	-2.60	152.00	-2.59	151.06	155.41	0.001287	4.01	290.79	36.50	0.45
monte	141.1 LAV-179	Q50	457.00	143.28	149.80	152.57	2.77	151.92	2.12	148.22	150.56	0.002258	3.87	118.05	26.75	0.59
monte	141.1 LAV-179	Q200	804.00	143.28	152.09	152.57	0.48	151.92	-0.17	149.91	153.05	0.002034	4.33	185.47	31.94	0.57
monte	141.1 LAV-179	Q500	1167.00	143.28	154.24	152.57	-1.67	151.92	-2.32	151.32	155.31	0.001720	4.57	255.24	32.50	0.52
monte	141 LAV-178	Q50	457.00	143.20	149.94	152.68	2.74	151.72	1.78	147.28	150.36	0.001031	2.86	159.75	31.60	0.41
monte	141 LAV-178	Q200	804.00	143.20	152.26	152.68	0.42	151.72	-0.54	148.79	152.84	0.001042	3.38	238.03	35.59	0.42

HEC-RAS Plan: 01_sett14 River: Lavagna Reach: monte (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	141	LAV-178	Q500	1167.00	143.20	154.41	152.68	-1.73	151.72	-2.69	150.08	155.11	0.000980	3.70	315.56	36.00	0.40
monte	140	LAV-177	Q50	457.00	143.55	149.89	150.81	0.92	155.00	5.11	147.32	150.28	0.001017	2.76	165.52	35.27	0.41
monte	140	LAV-177	Q200	804.00	143.55	152.24	150.81	-1.43	155.00	2.76	148.79	152.75	0.000925	3.16	254.22	39.17	0.40
monte	140	LAV-177	Q500	1167.00	143.55	154.42	150.81	-3.61	155.00	0.58	150.03	155.02	0.000834	3.41	341.97	41.13	0.38

Piano di bacino torrente Lavagna

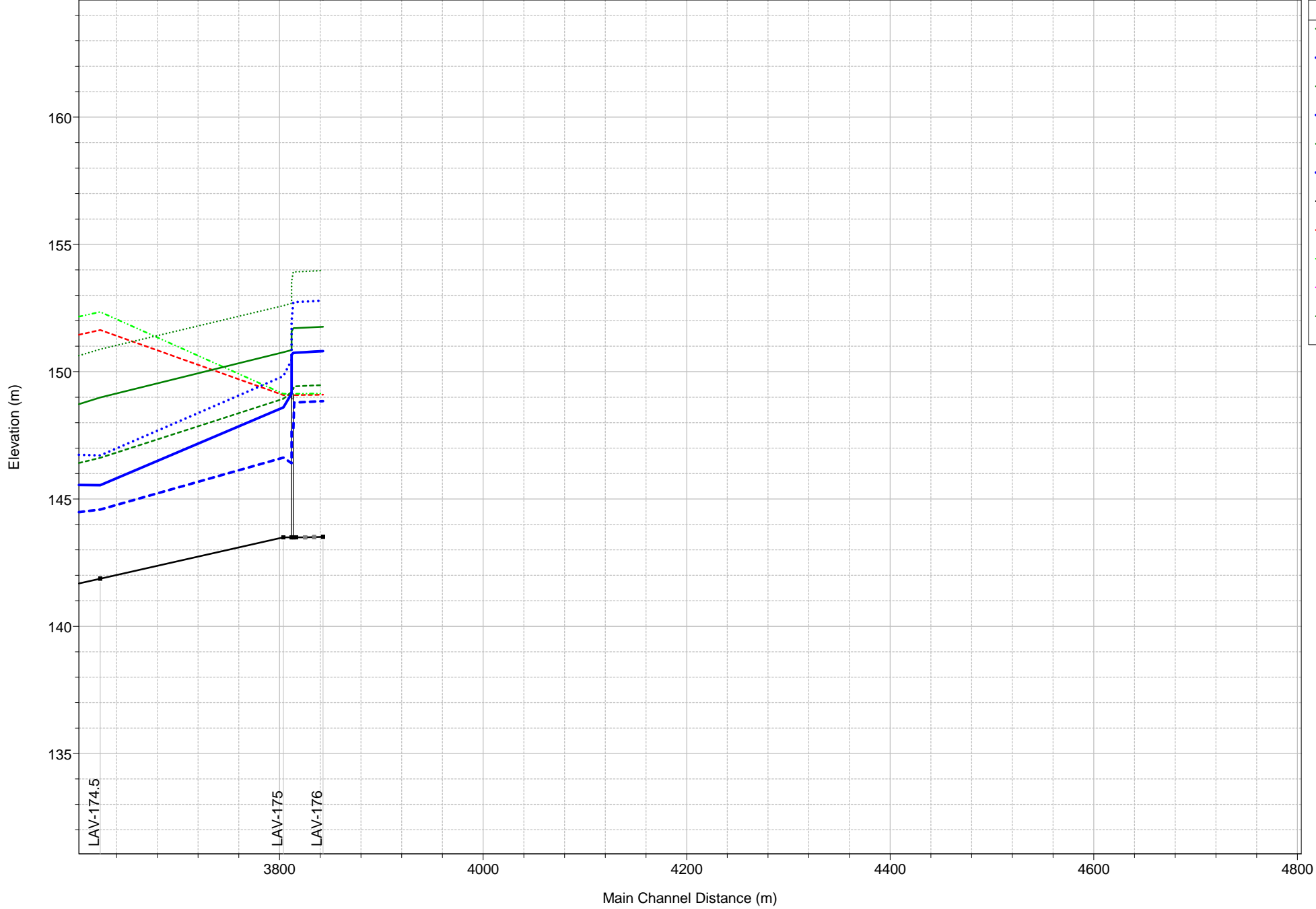
T. Lavagna

**tratto tra Neirone e Litteglia – dalla sez. LAV176 alla
LAV123**

- **Profili idraulici**
- **Sezioni**
- **Tabelle dei risultati**

Torrente Lavagna Plan: 01_sett14

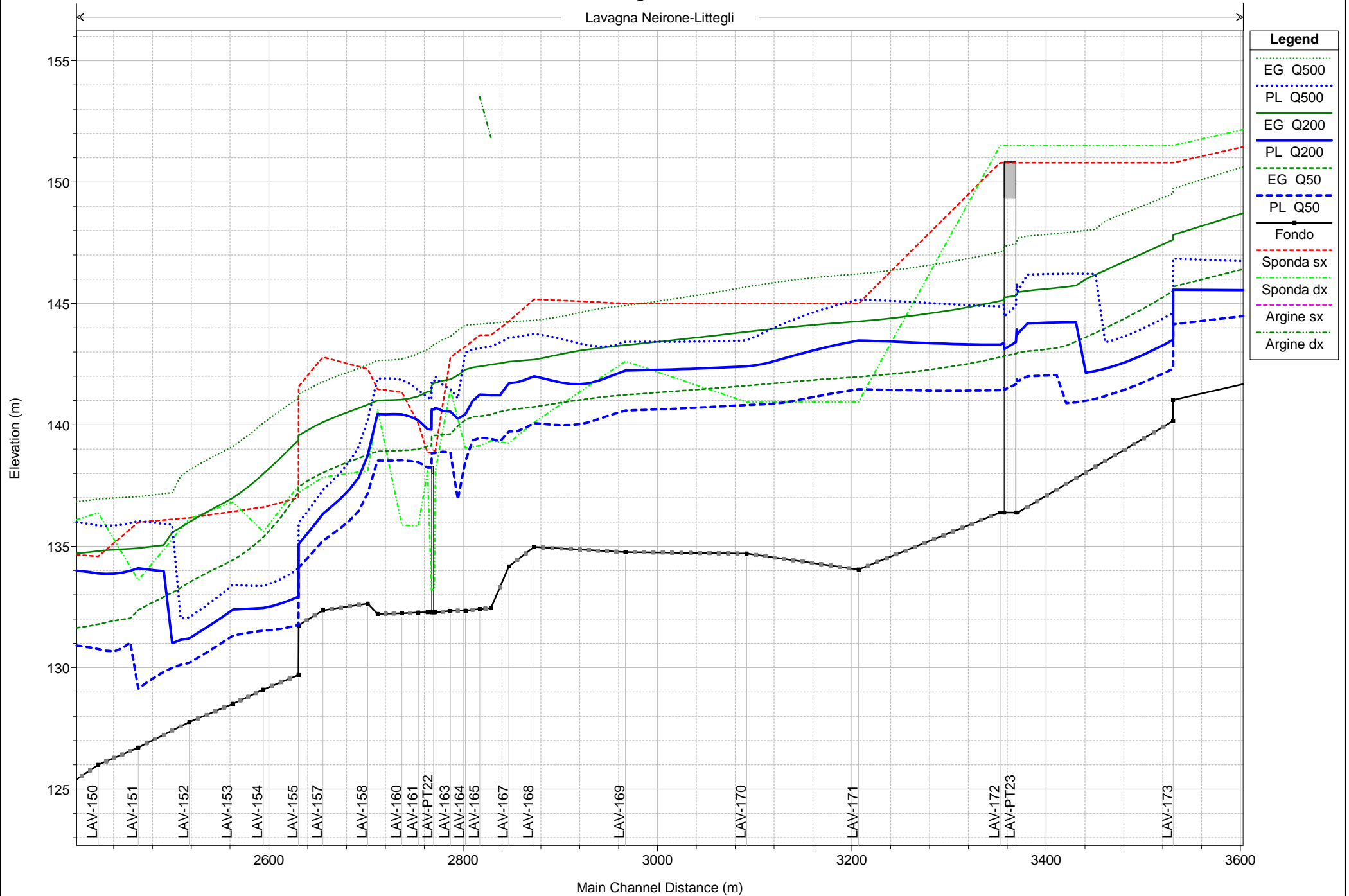
← Lavagna Neirone-Litigli →



1 cm Horiz. = 50 m 1 cm Vert. = 2 m

Torrente Lavagna Plan: 01_sett14

Lavagna Neirone-Littegli

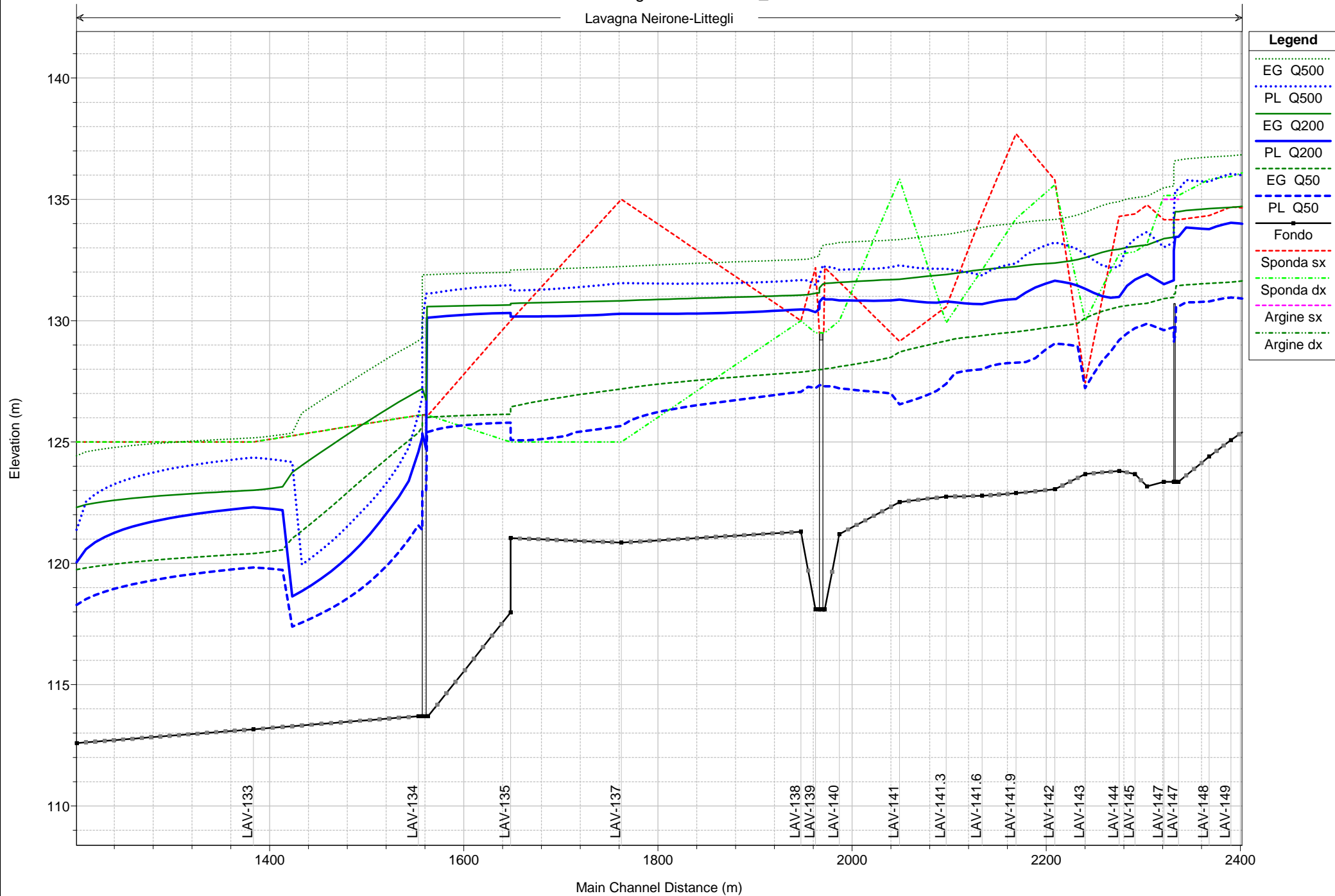


- Legend**
- EG Q500
 - PL Q500
 - EG Q200
 - PL Q200
 - EG Q50
 - PL Q50
 - Fondo
 - Sponda sx
 - Sponda dx
 - Argine sx
 - Argine dx

1 cm Horiz. = 50 m 1 cm Vert. = 2 m

Torrente Lavagna Plan: 01_sett14

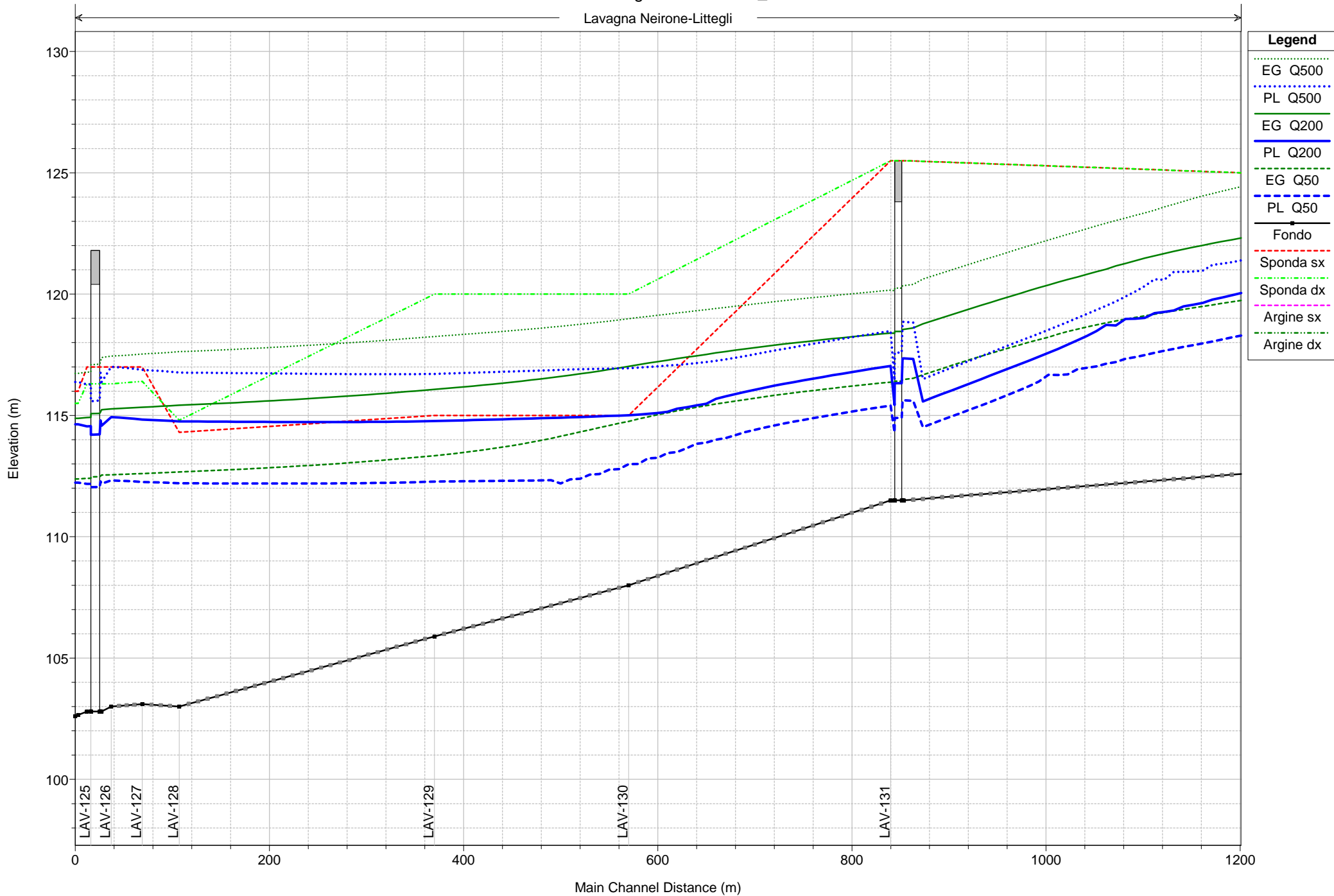
Lavagna Neirone-Littegli



1 cm Horiz. = 50 m 1 cm Vert. = 2 m

Torrente Lavagna Plan: 01_sett14

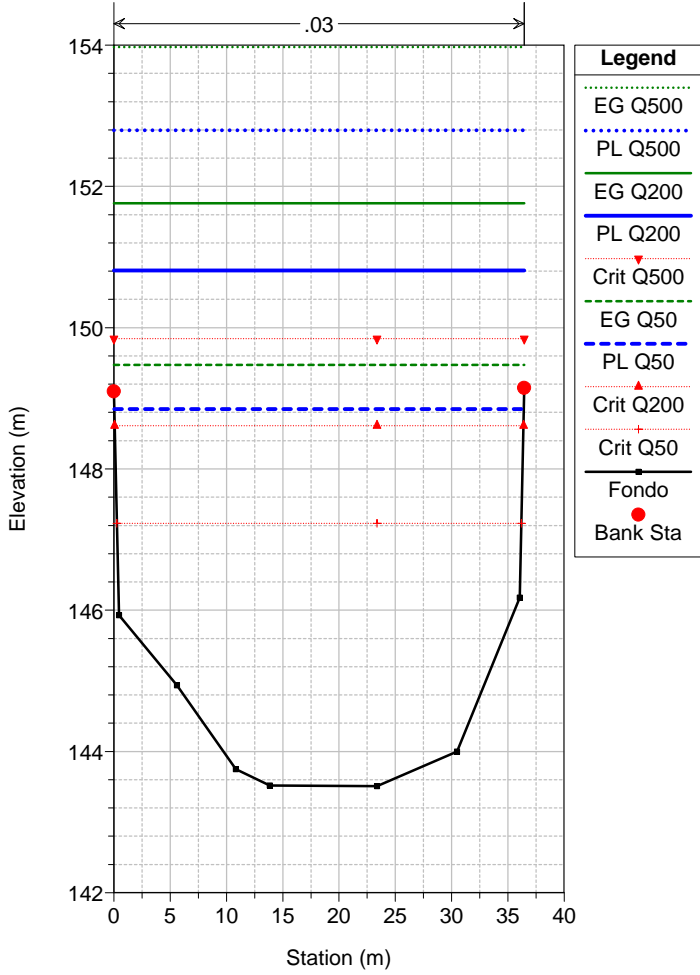
Lavagna Neirone-Littegli



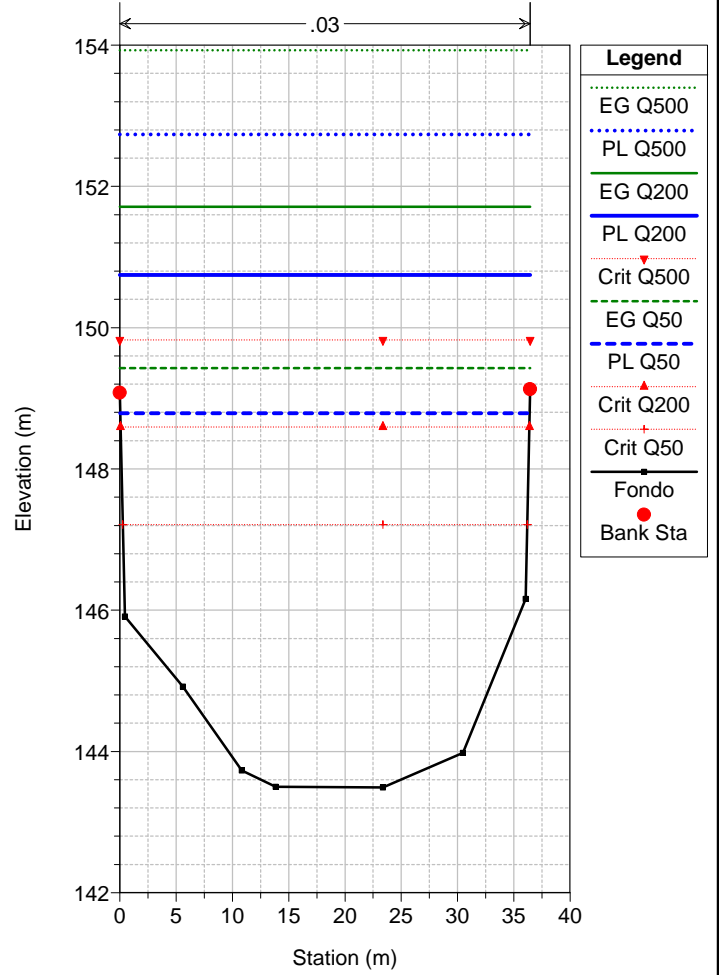
- Legend**
- EG Q500
 - PL Q500
 - EG Q200
 - PL Q200
 - EG Q50
 - PL Q50
 - Fondo
 - Sponda sx
 - Sponda dx
 - Argine sx
 - Argine dx

1 cm Horiz. = 50 m 1 cm Vert. = 2 m

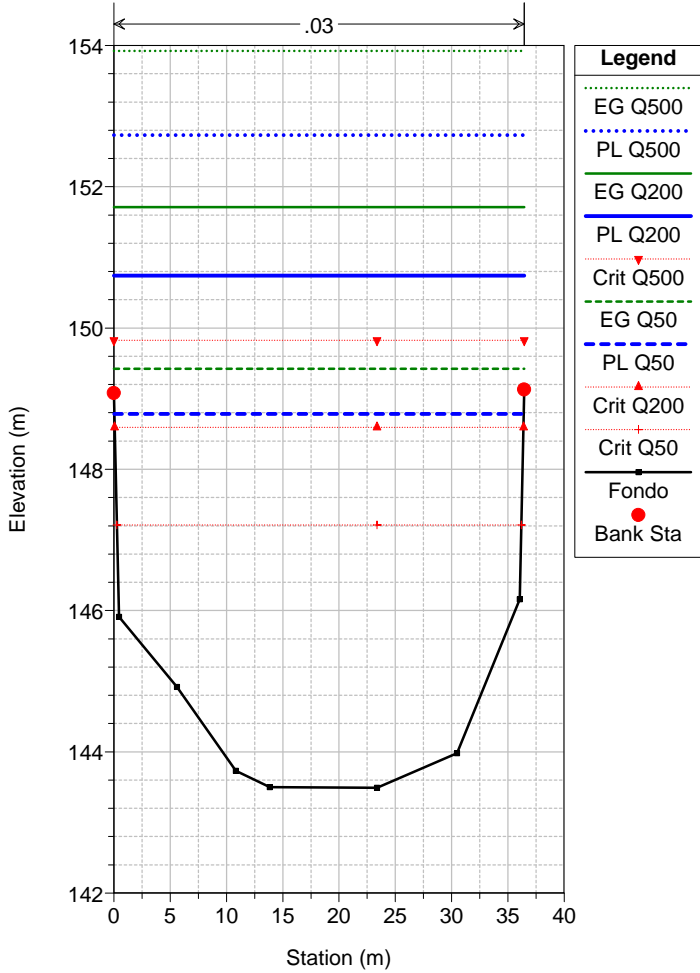
Torrente Lavagna Plan: 01_sett14
LAV-176



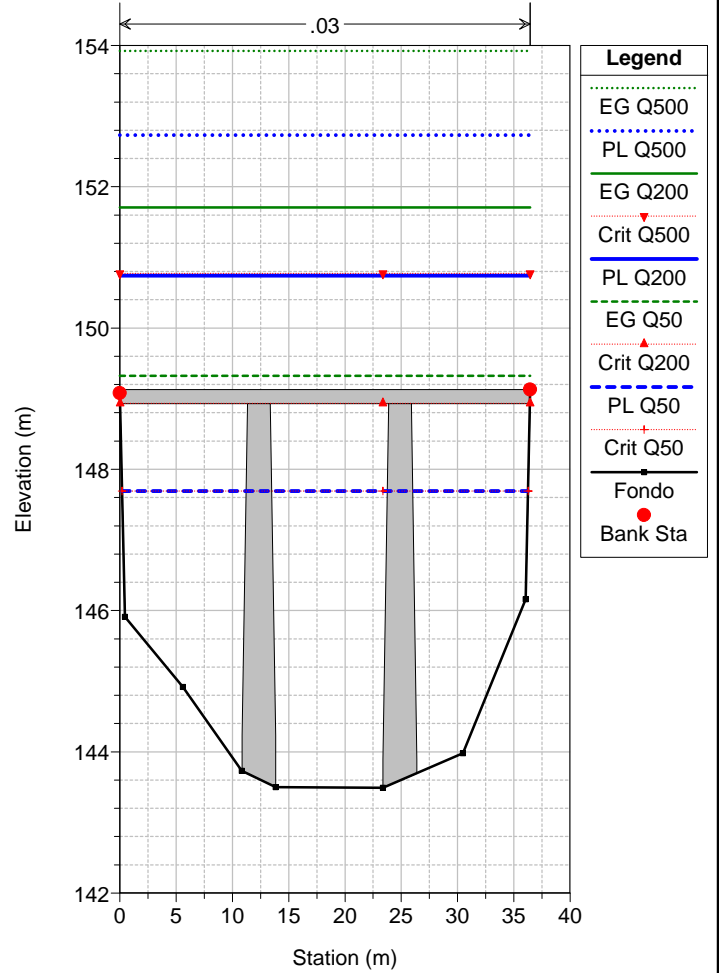
Torrente Lavagna Plan: 01_sett14
LAV-175



Torrente Lavagna Plan: 01_sett14
LAV-175

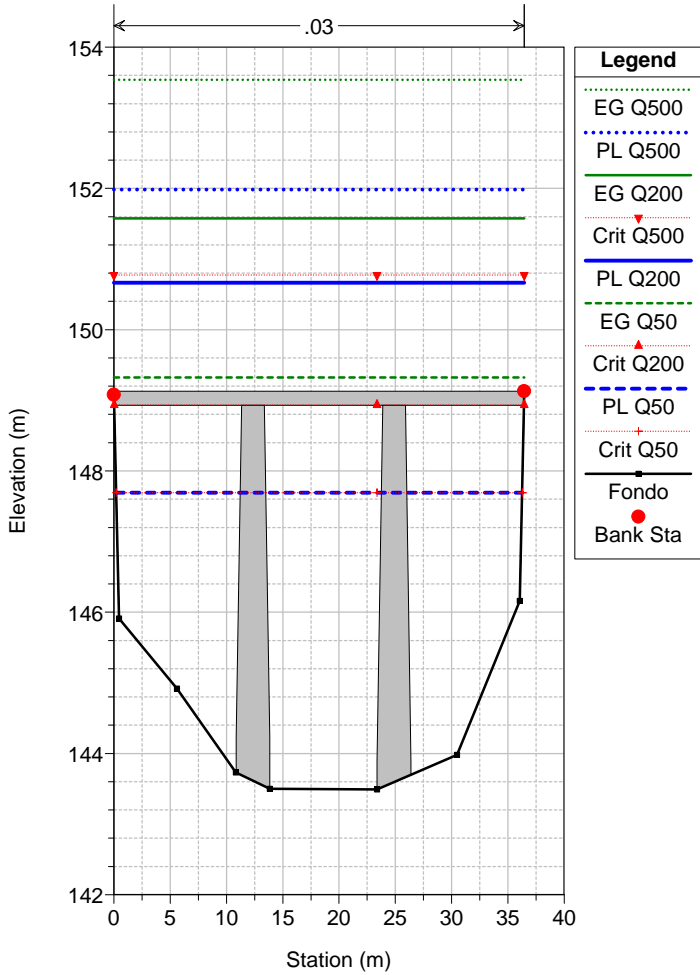


Torrente Lavagna Plan: 01_sett14
LAV-PT24



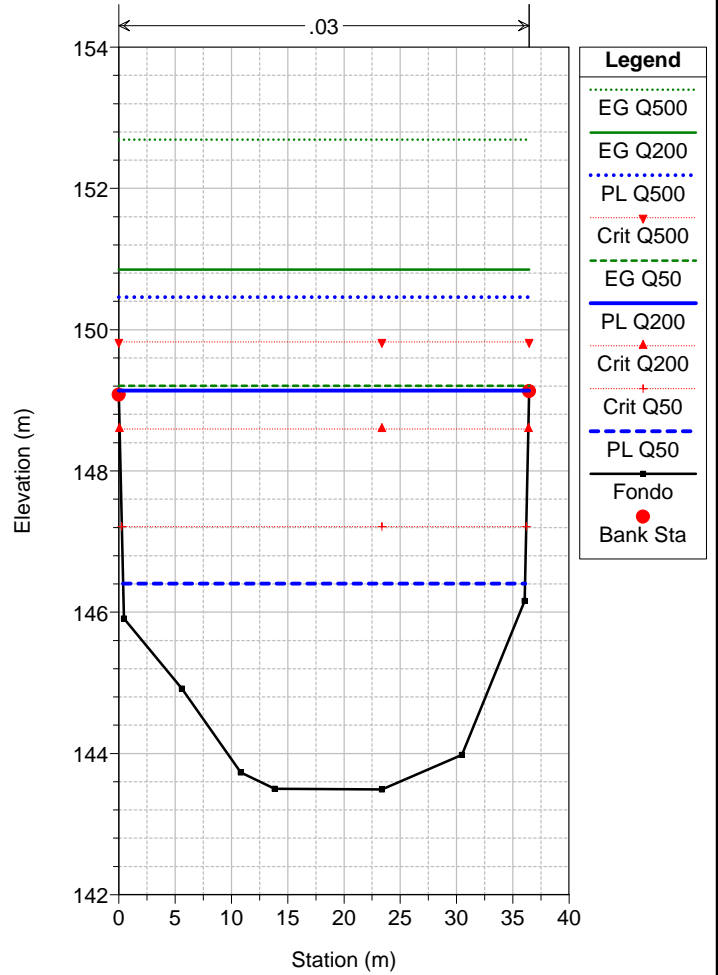
Torrente Lavagna Plan: 01_sett14

LAV-PT24



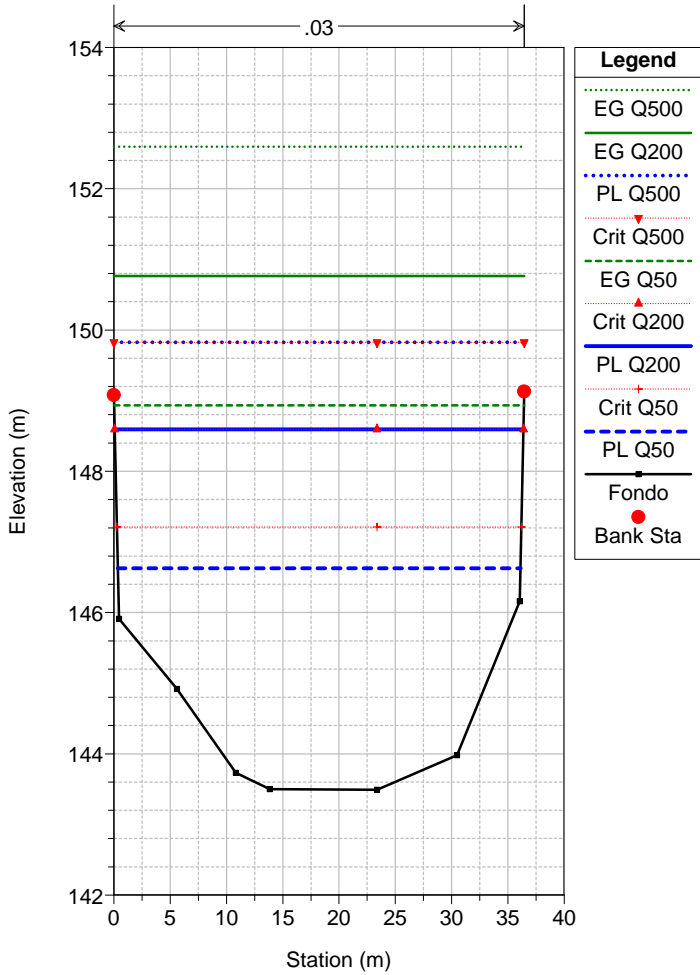
Torrente Lavagna Plan: 01_sett14

LAV-175



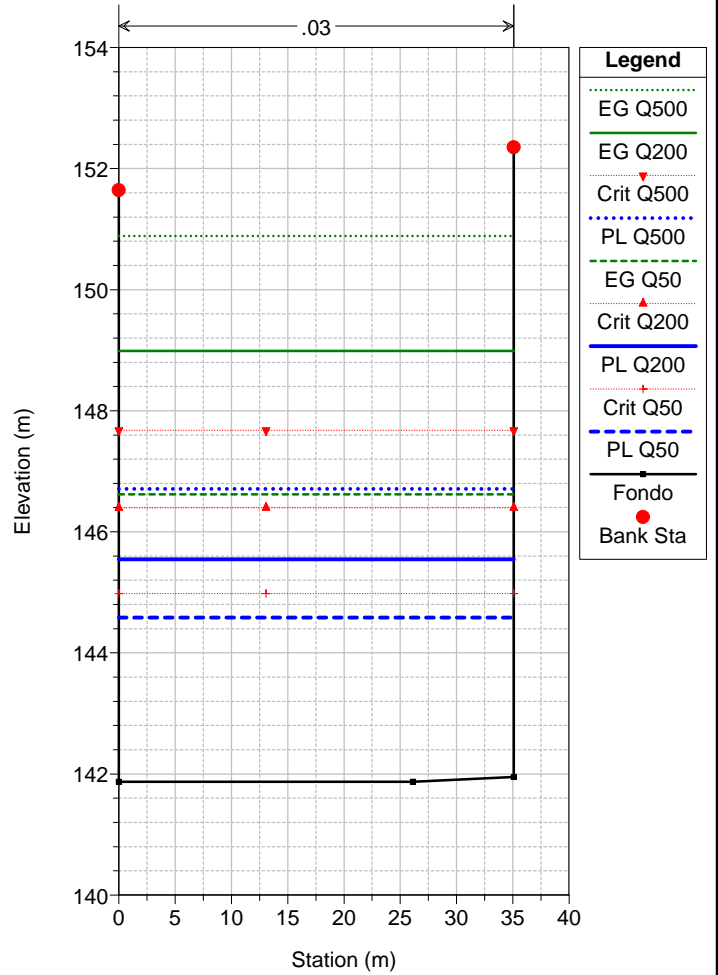
Torrente Lavagna Plan: 01_sett14

LAV-175

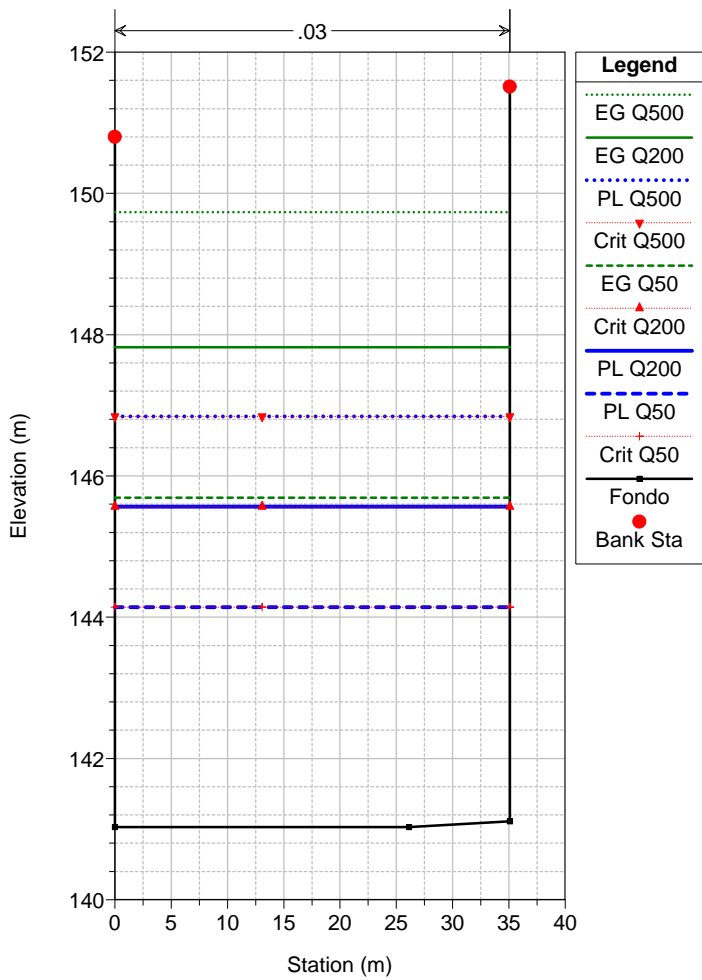


Torrente Lavagna Plan: 01_sett14

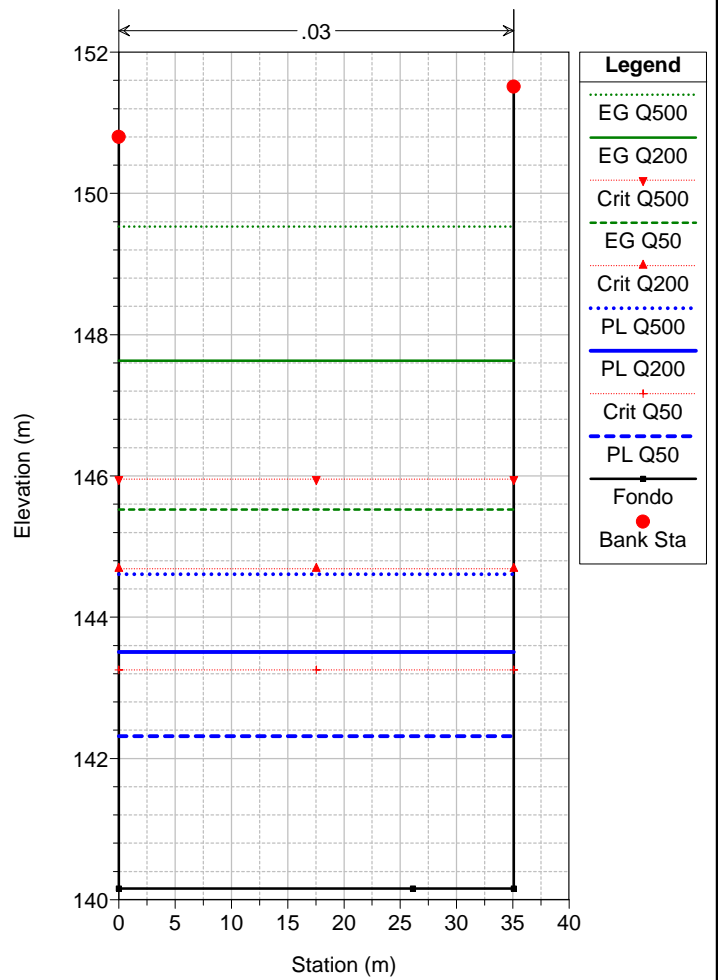
LAV-174.5



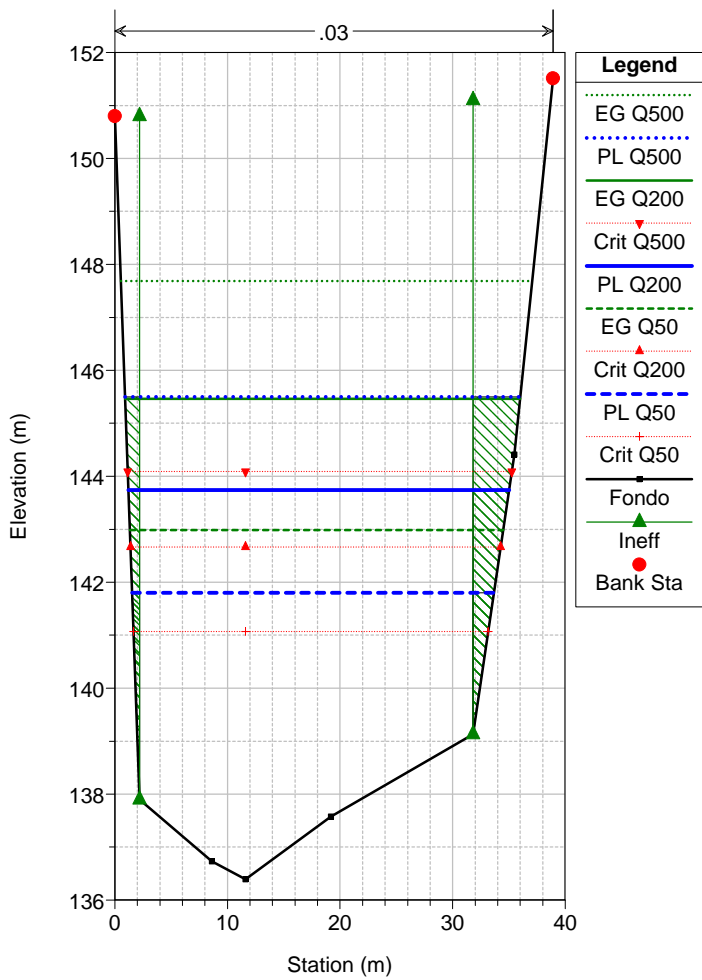
Torrente Lavagna Plan: 01_sett14
LAV-174



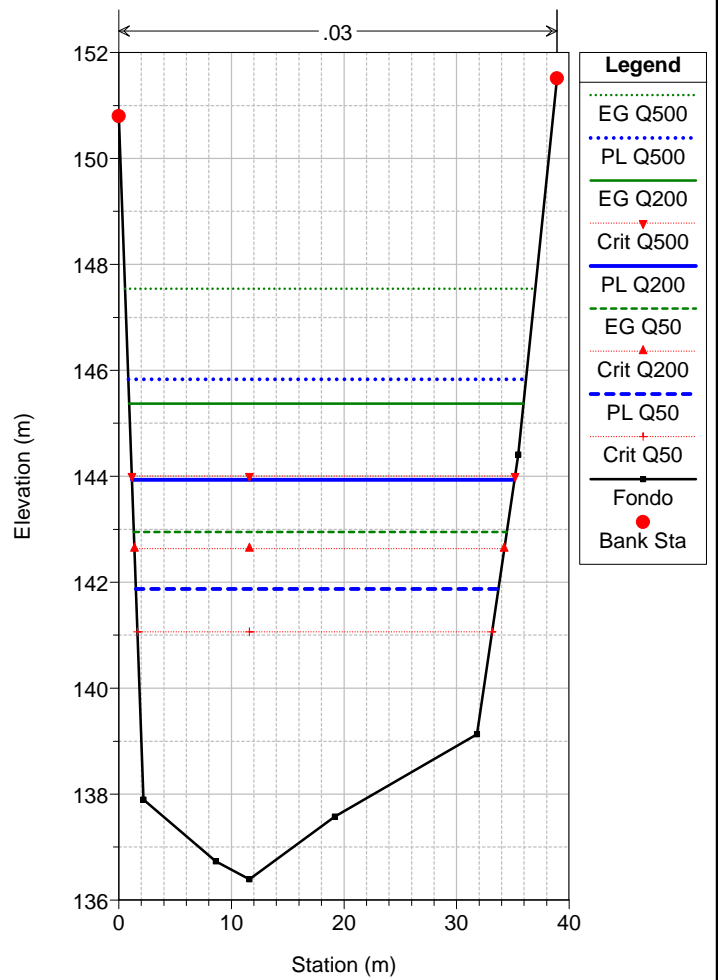
Torrente Lavagna Plan: 01_sett14
LAV-173

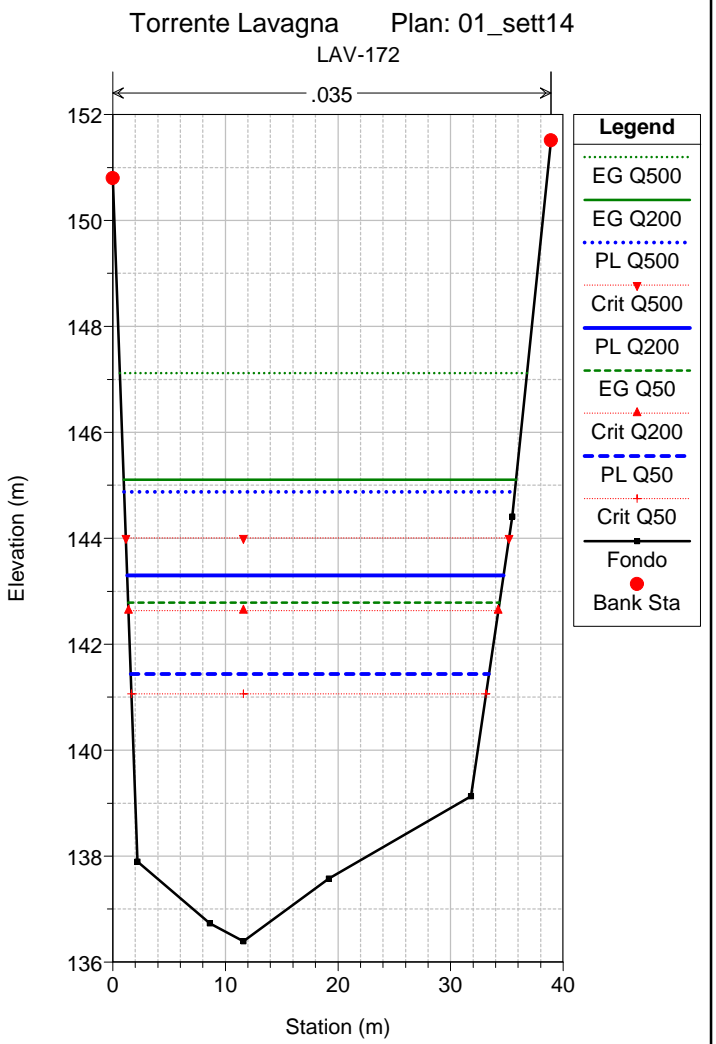
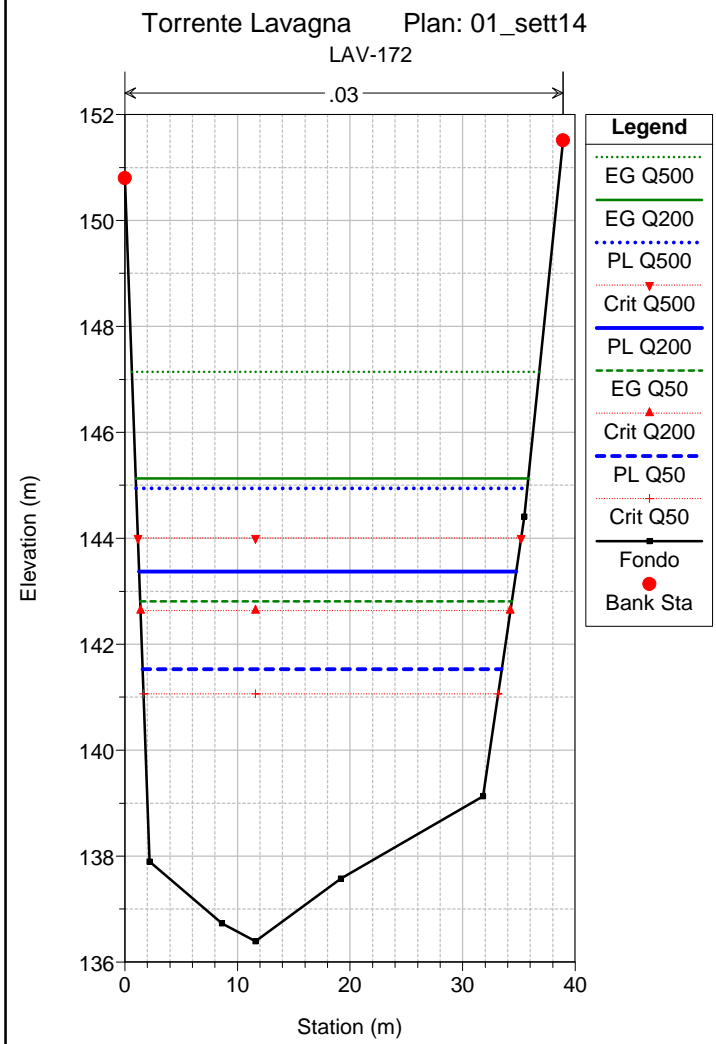
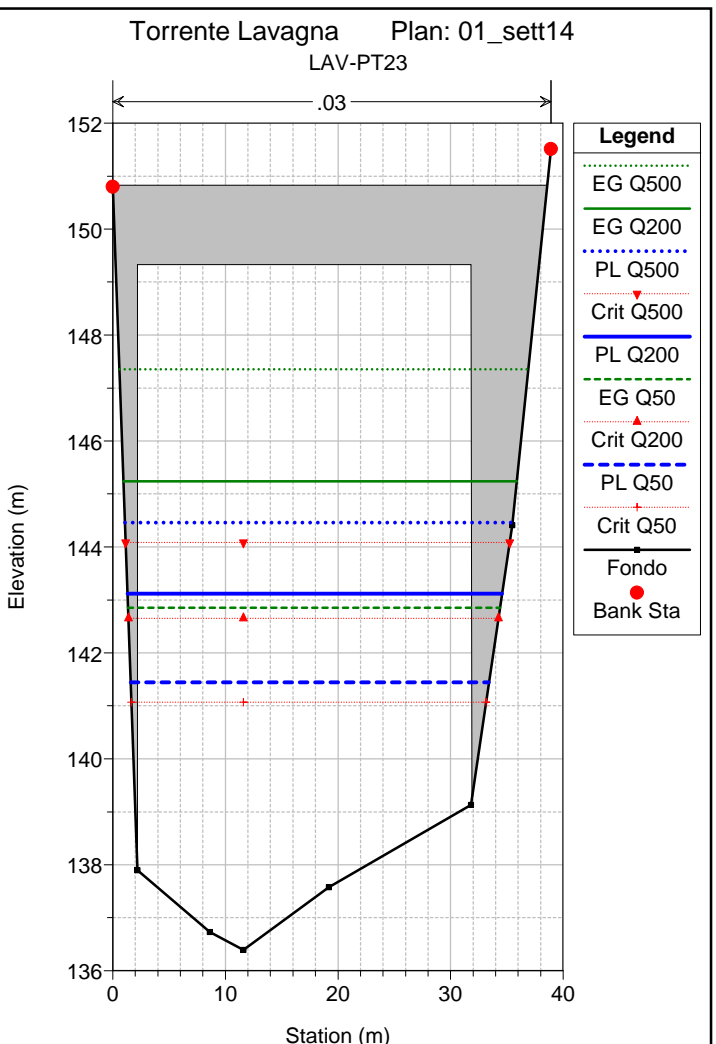
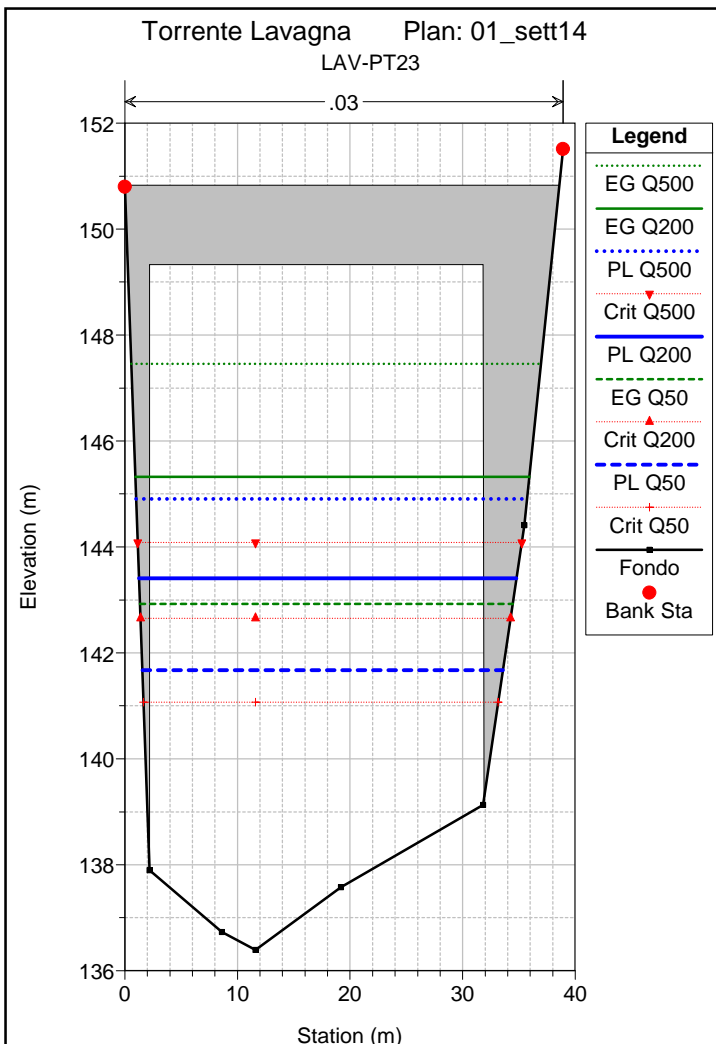


Torrente Lavagna Plan: 01_sett14
LAV-172

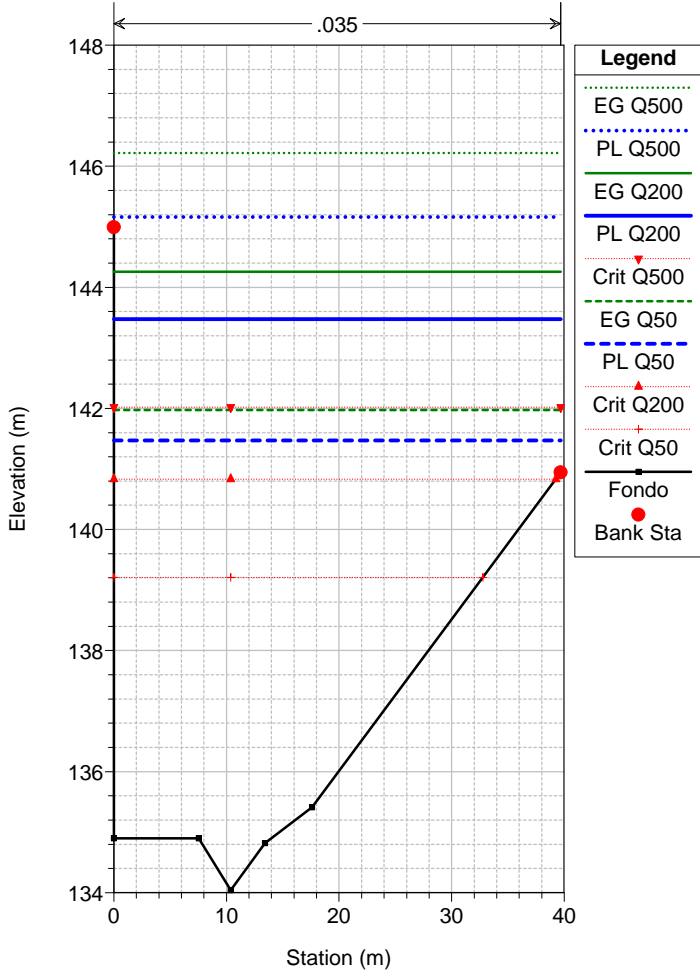


Torrente Lavagna Plan: 01_sett14
LAV-172

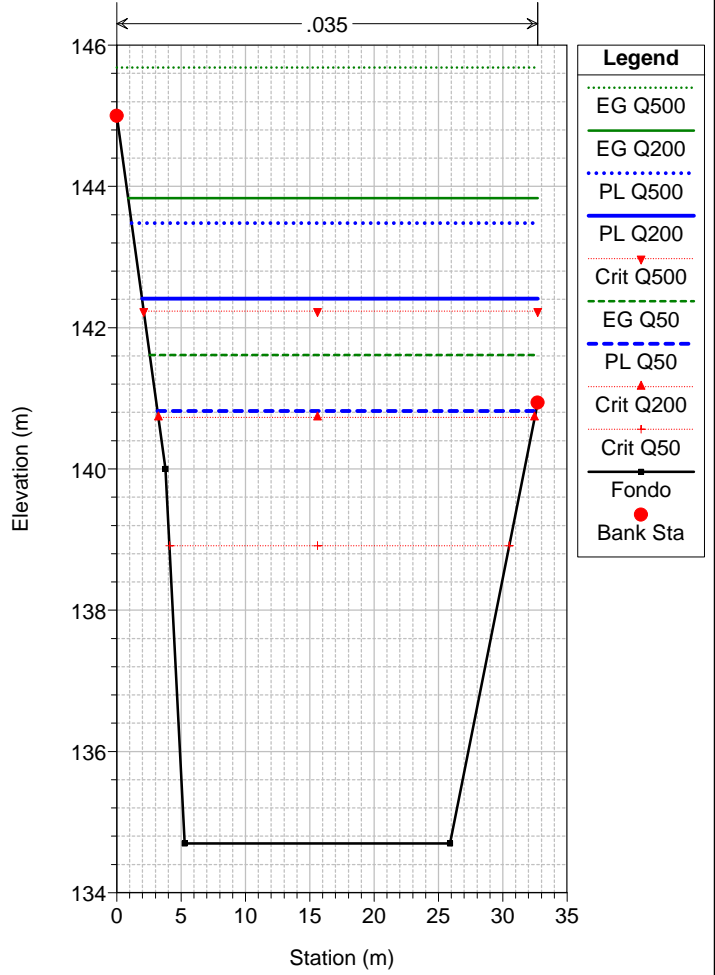




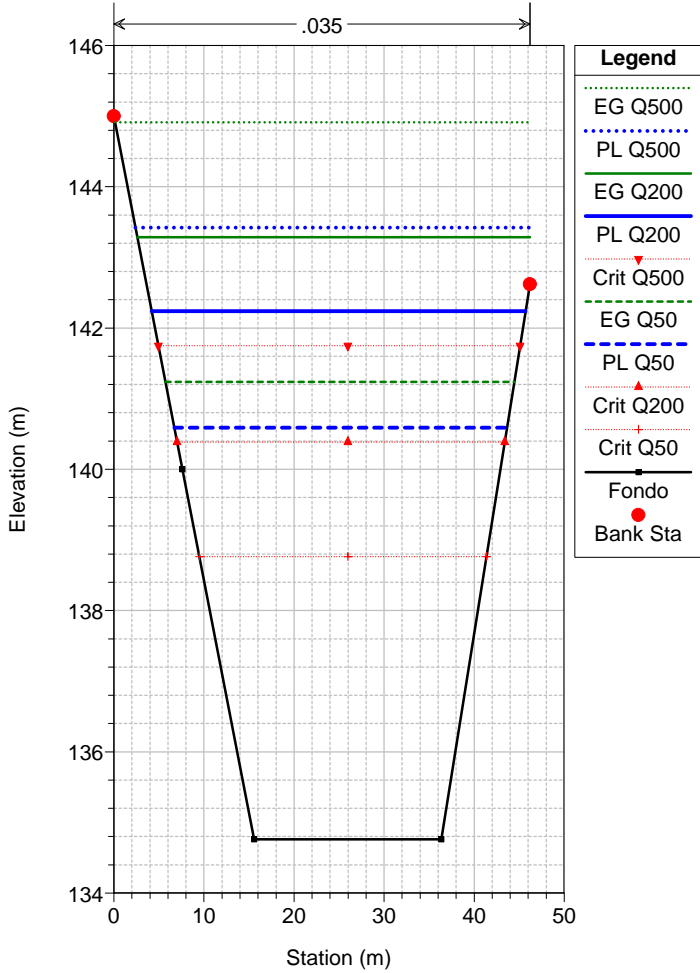
Torrente Lavagna Plan: 01_sett14
LAV-171



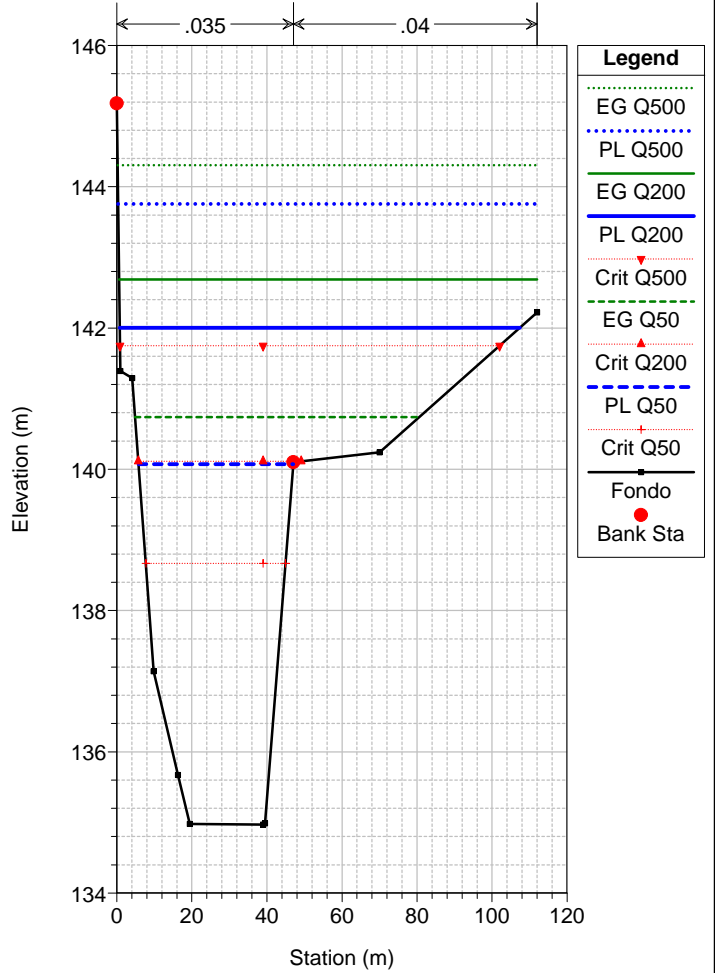
Torrente Lavagna Plan: 01_sett14
LAV-170



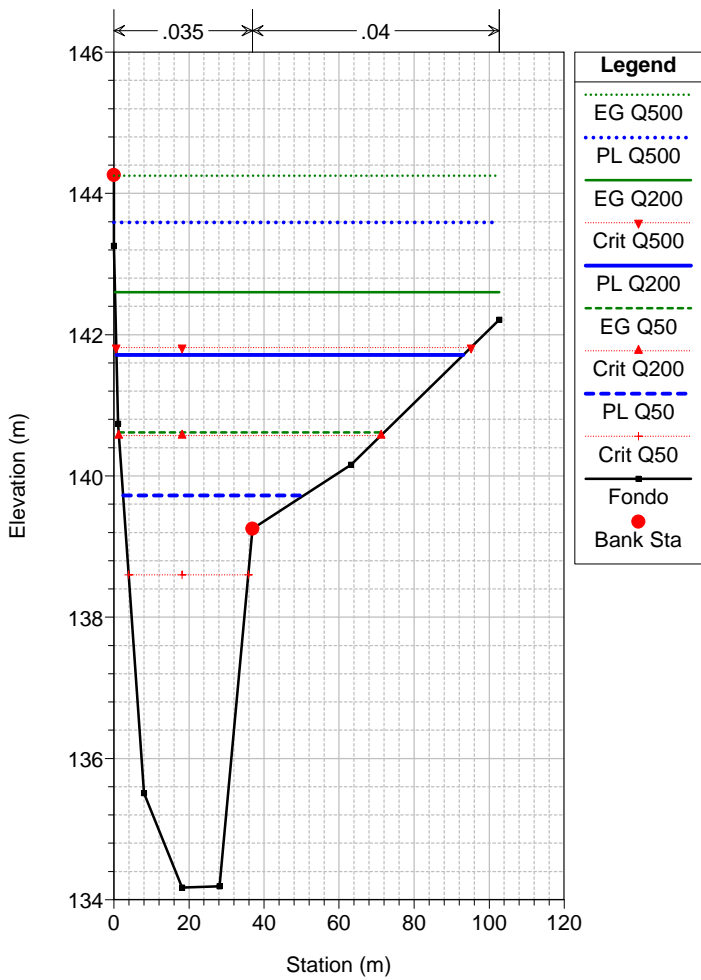
Torrente Lavagna Plan: 01_sett14
LAV-169



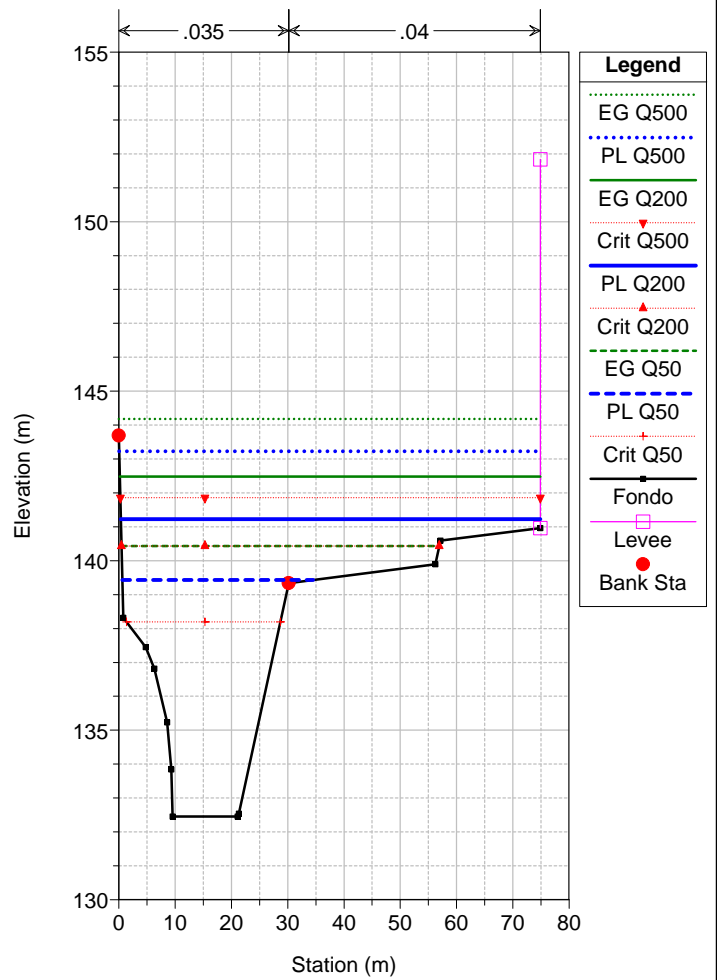
Torrente Lavagna Plan: 01_sett14
LAV-168



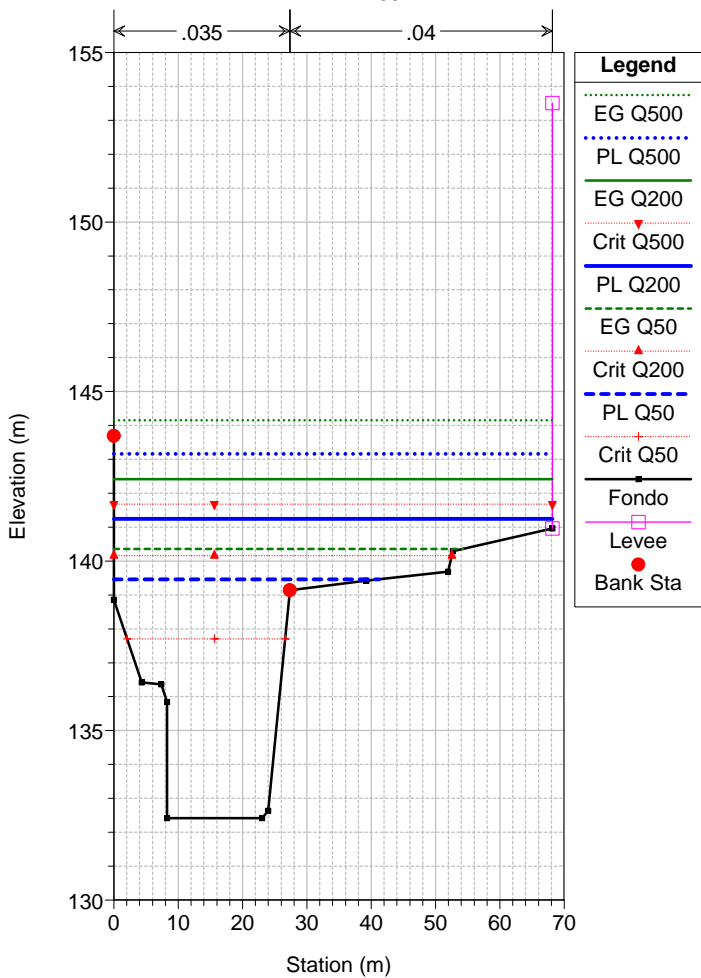
Torrente Lavagna Plan: 01_sett14
LAV-167



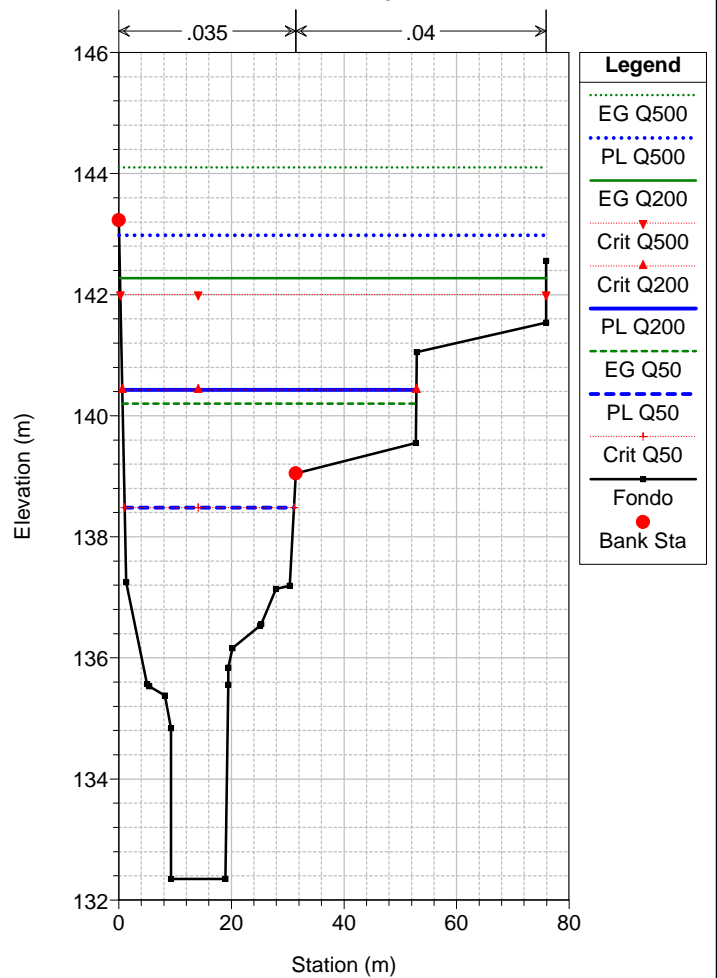
Torrente Lavagna Plan: 01_sett14
LAV-166



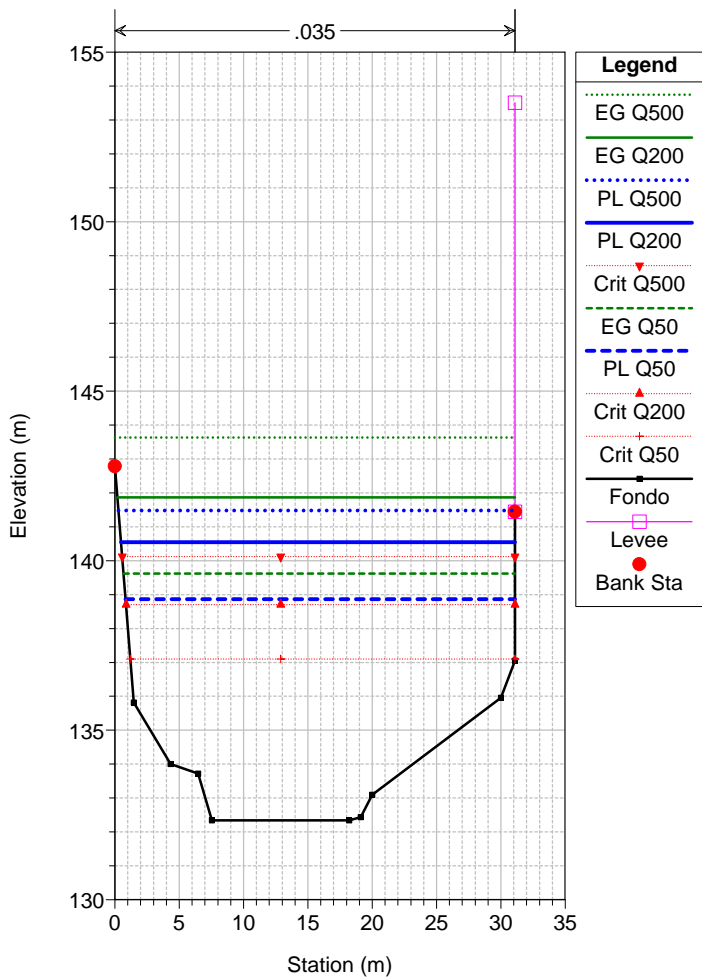
Torrente Lavagna Plan: 01_sett14
LAV-165



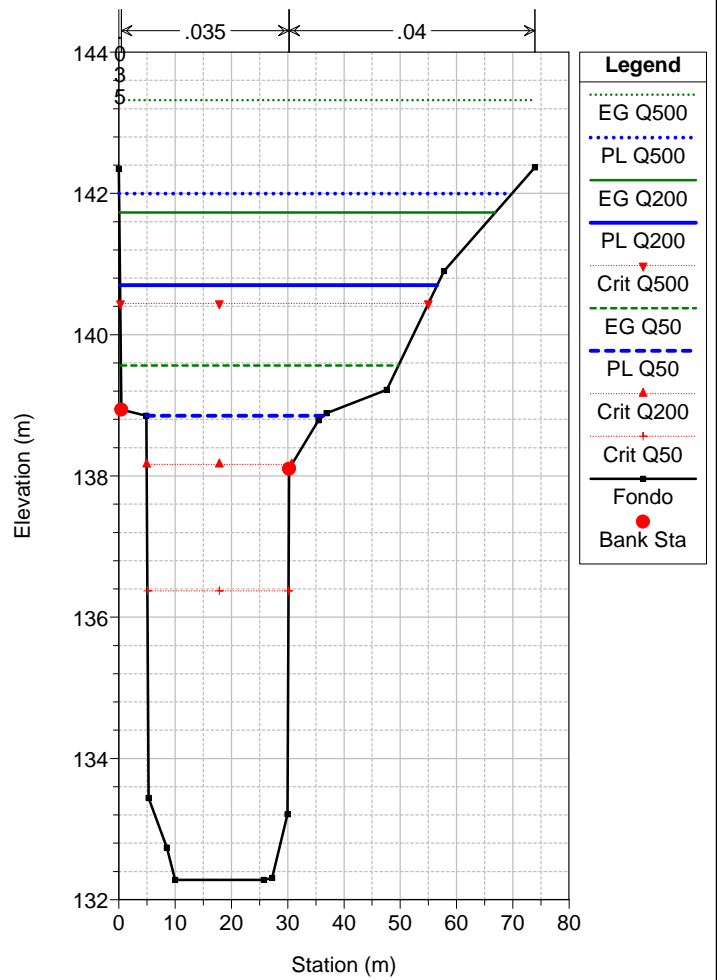
Torrente Lavagna Plan: 01_sett14
LAV-164



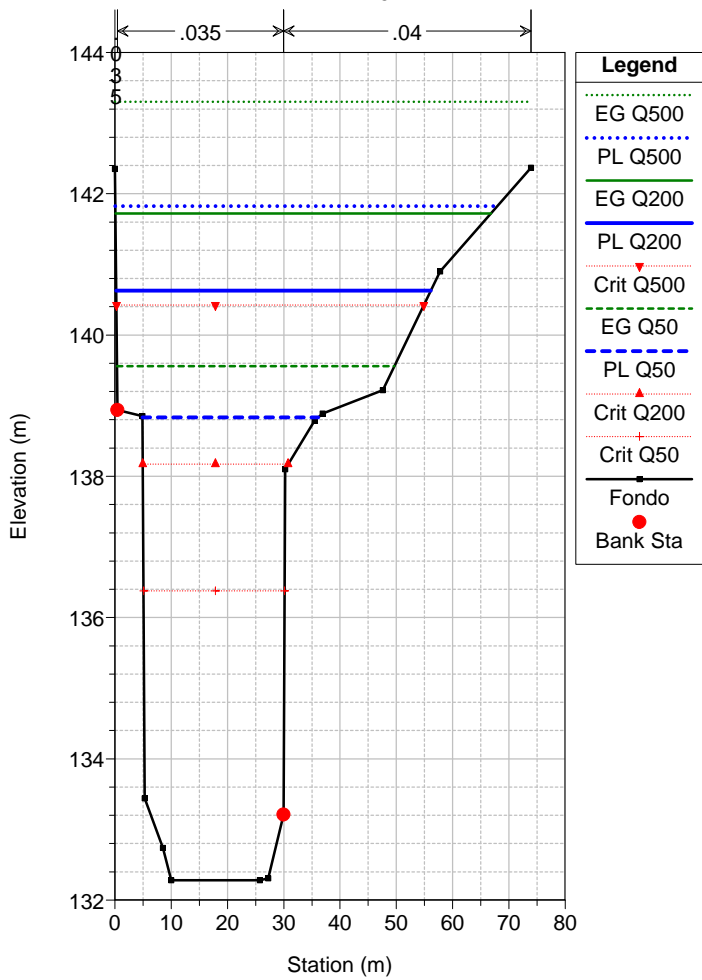
Torrente Lavagna Plan: 01_sett14
LAV-163



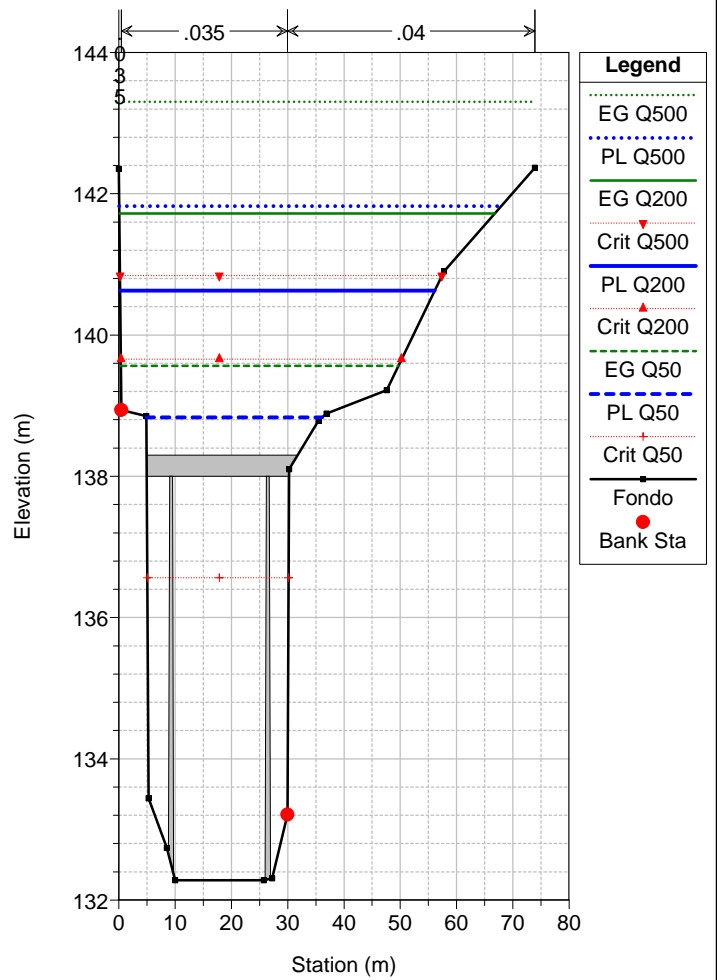
Torrente Lavagna Plan: 01_sett14
LAV-162



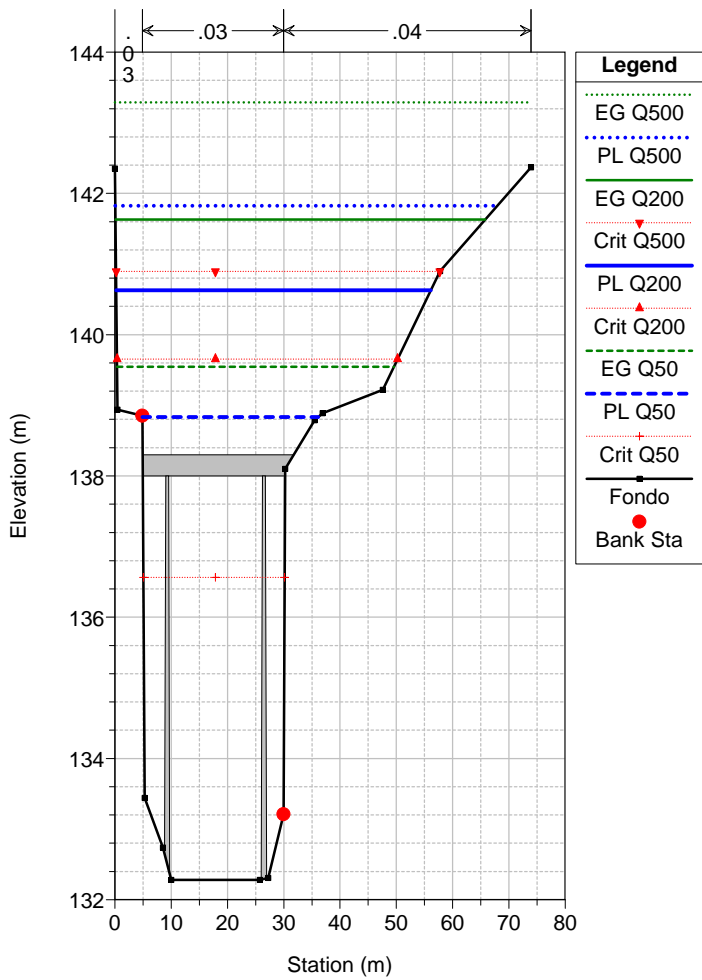
Torrente Lavagna Plan: 01_sett14
LAV-162



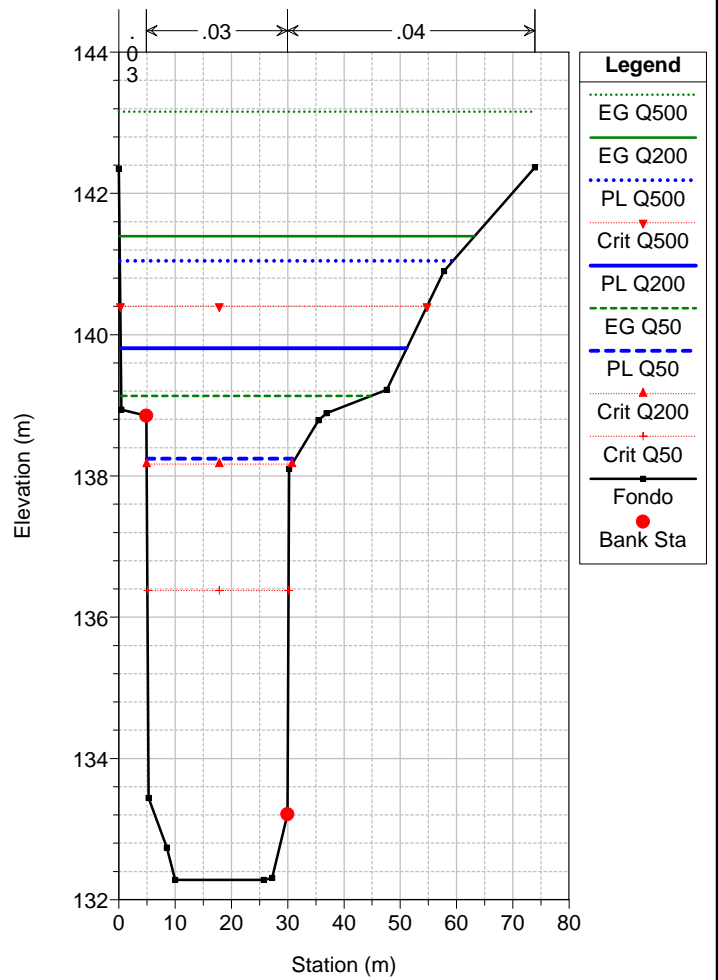
Torrente Lavagna Plan: 01_sett14
LAV-PT22



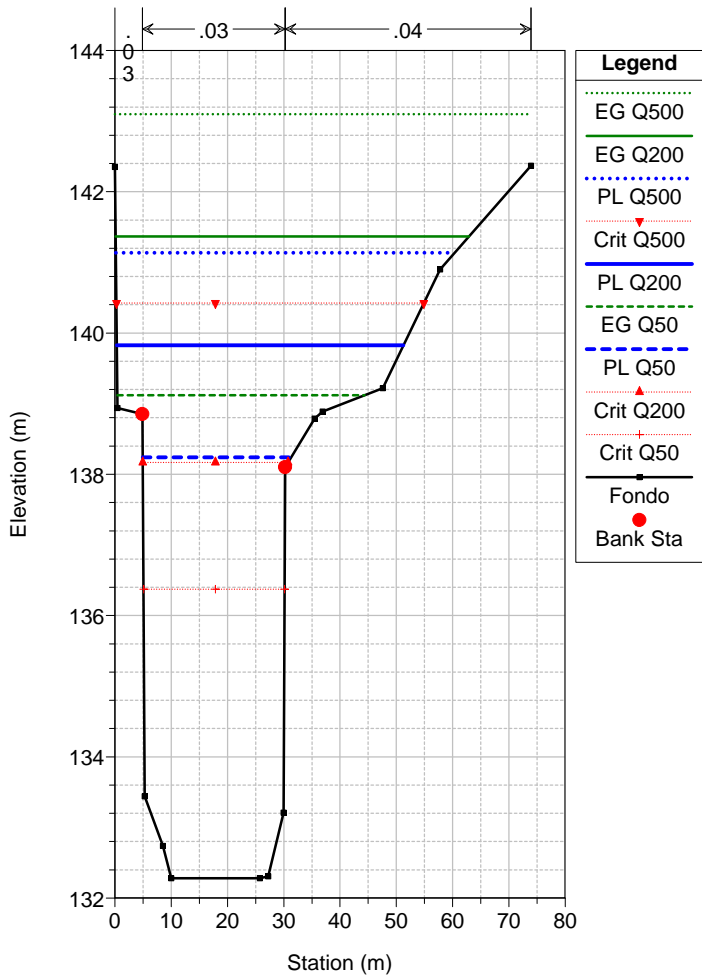
Torrente Lavagna Plan: 01_sett14
LAV-PT22



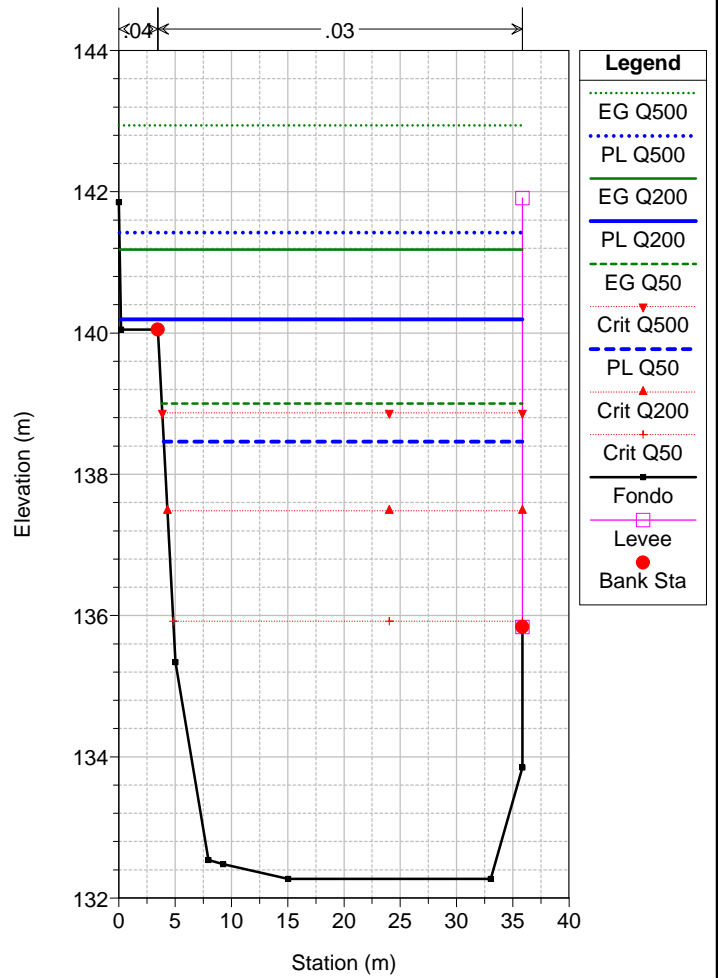
Torrente Lavagna Plan: 01_sett14
LAV-162



Torrente Lavagna Plan: 01_sett14
LAV-162

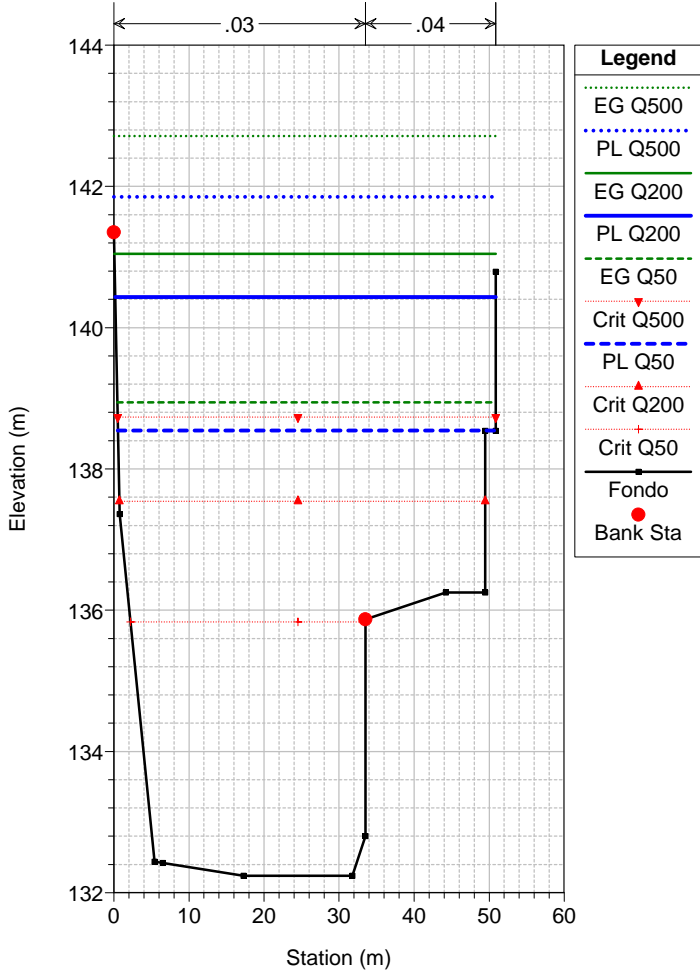


Torrente Lavagna Plan: 01_sett14
LAV-161



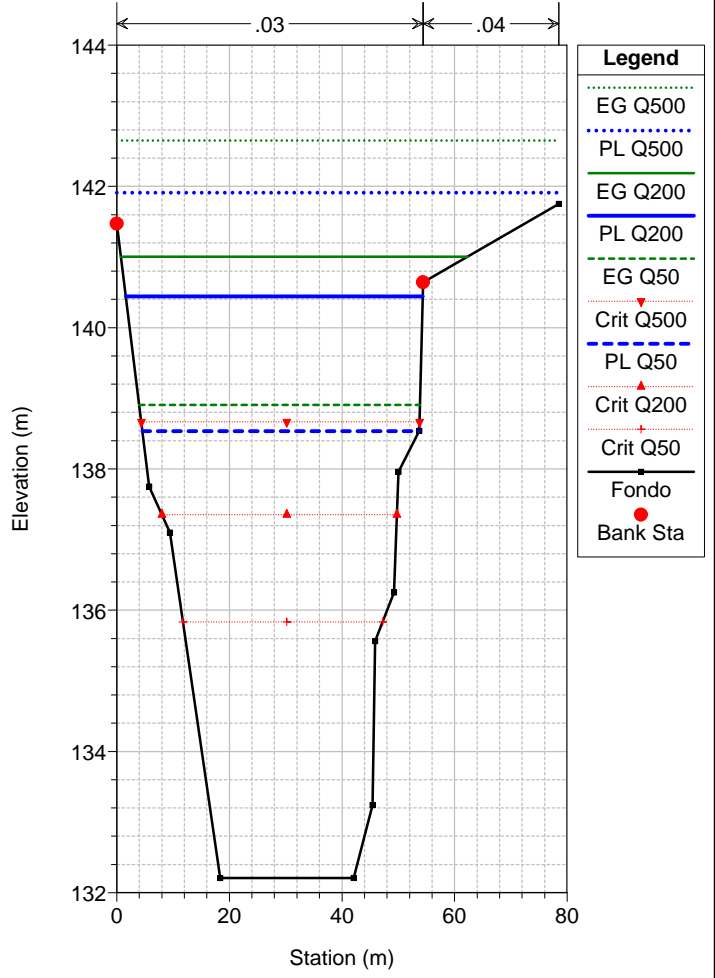
Torrente Lavagna Plan: 01_sett14

LAV-160



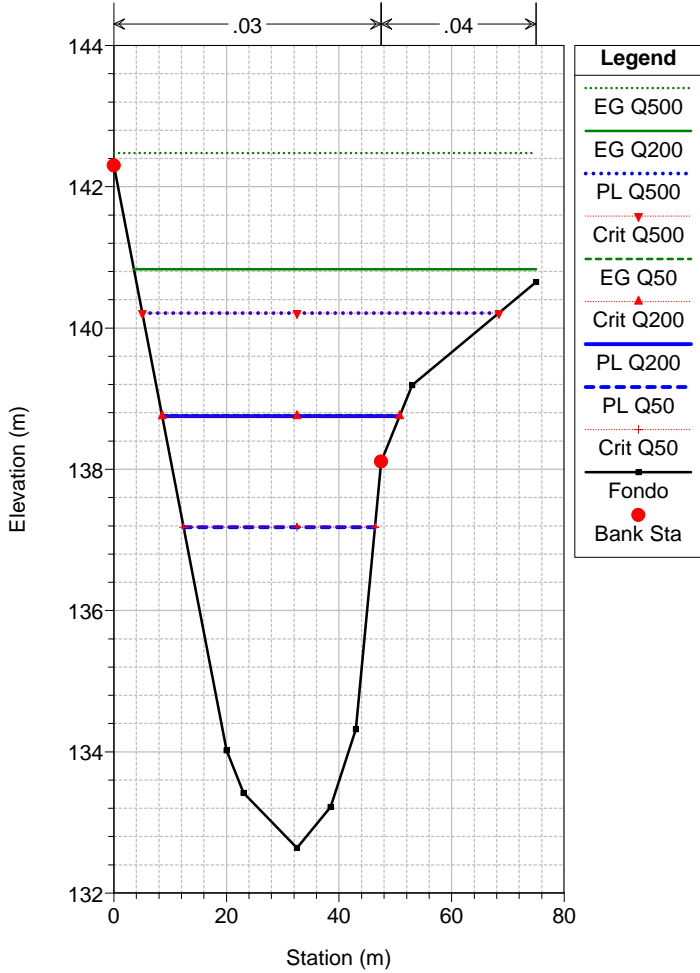
Torrente Lavagna Plan: 01_sett14

LAV-159



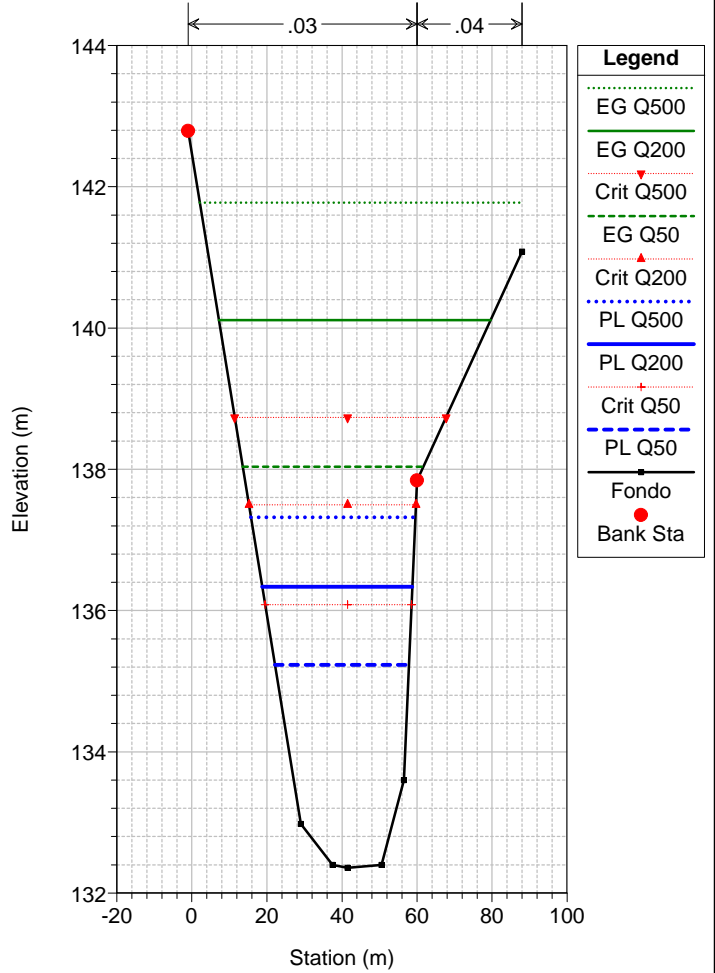
Torrente Lavagna Plan: 01_sett14

LAV-158



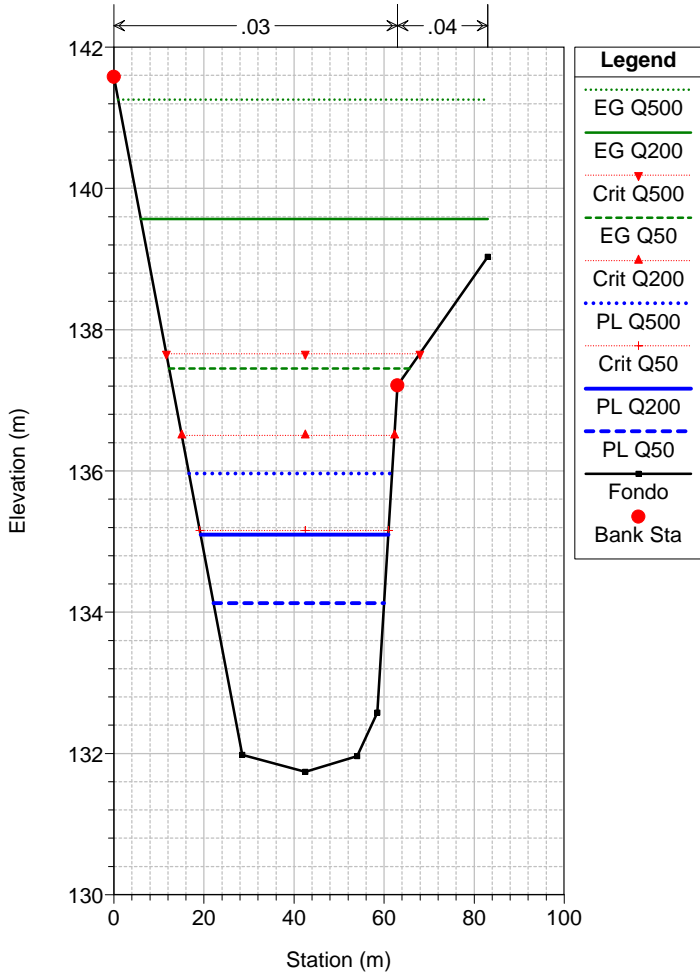
Torrente Lavagna Plan: 01_sett14

LAV-157



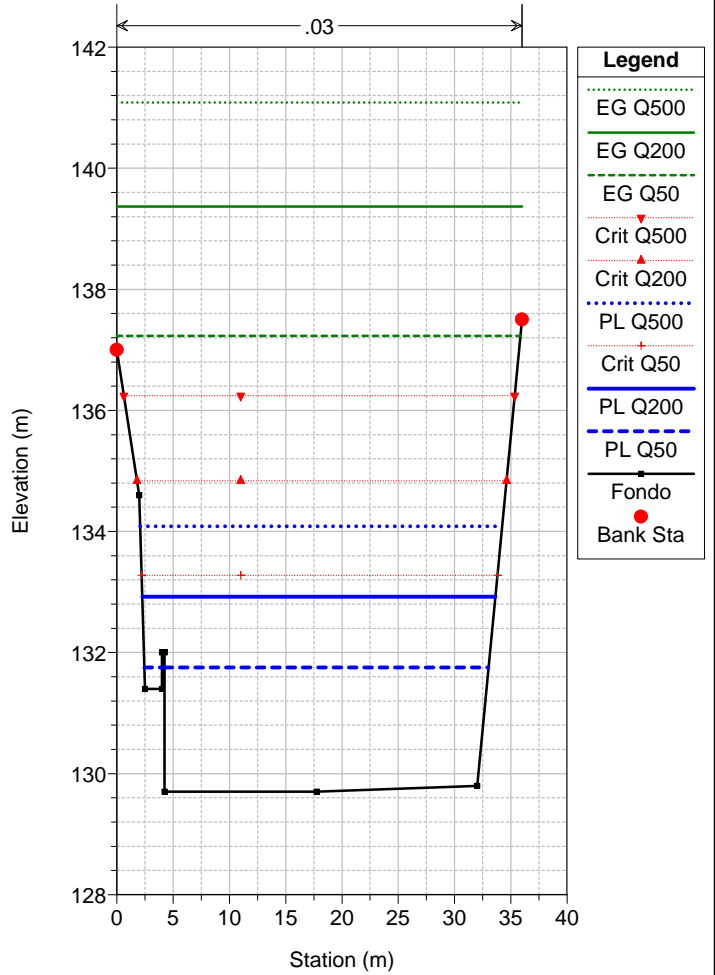
Torrente Lavagna Plan: 01_sett14

LAV-156



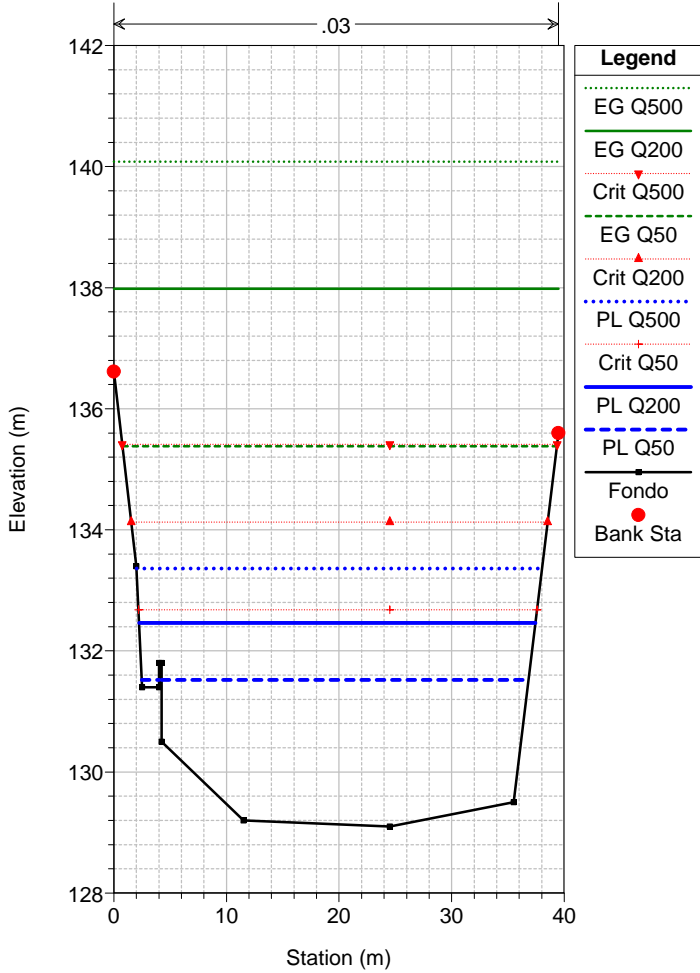
Torrente Lavagna Plan: 01_sett14

LAV-155



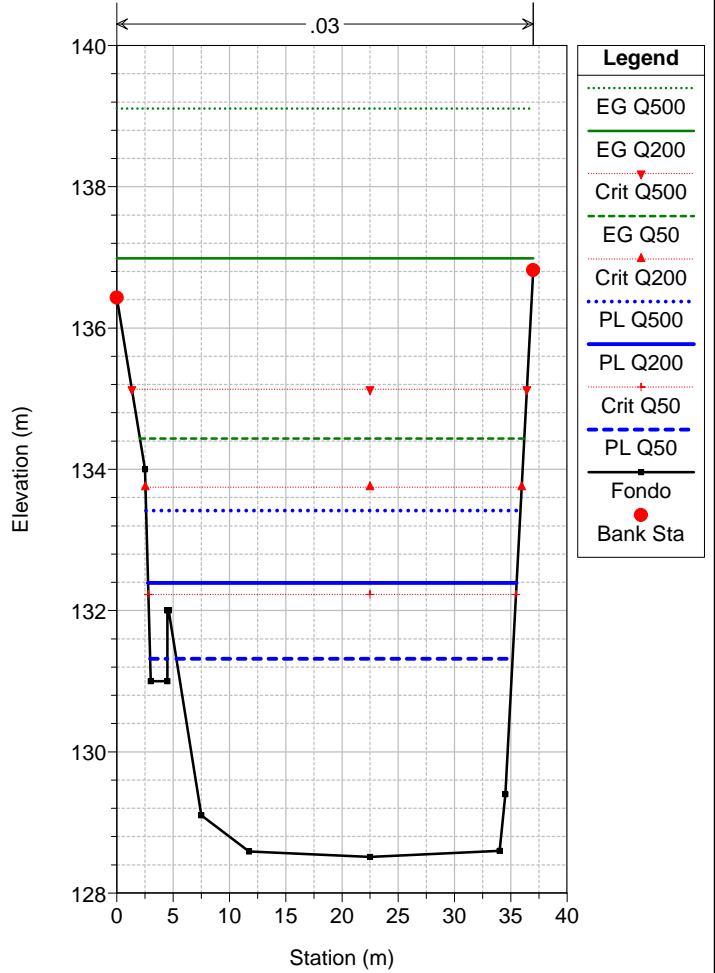
Torrente Lavagna Plan: 01_sett14

LAV-154

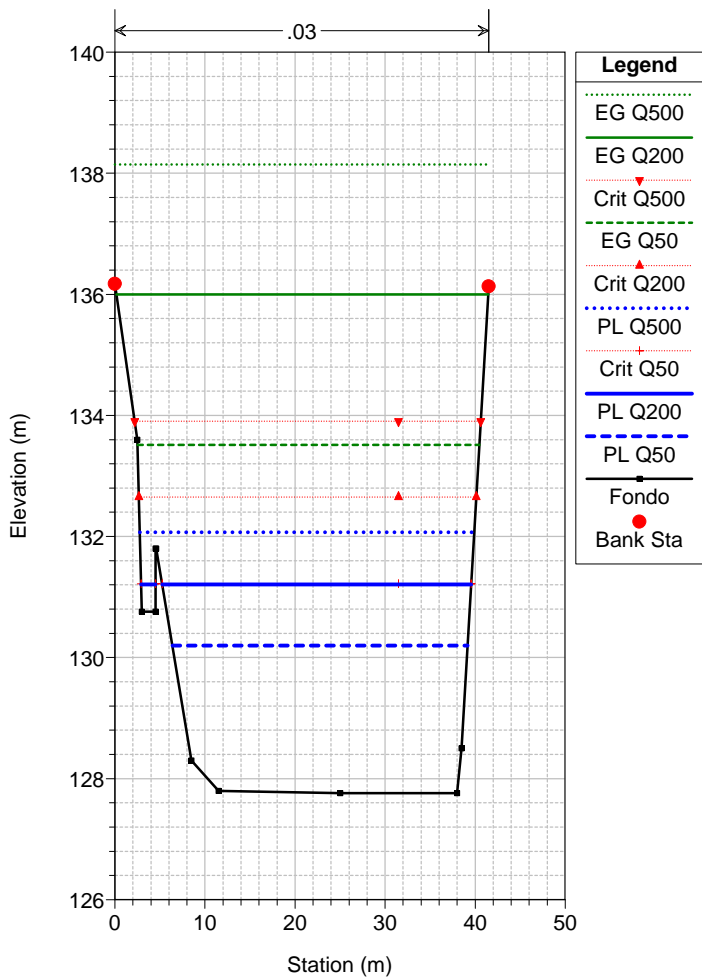


Torrente Lavagna Plan: 01_sett14

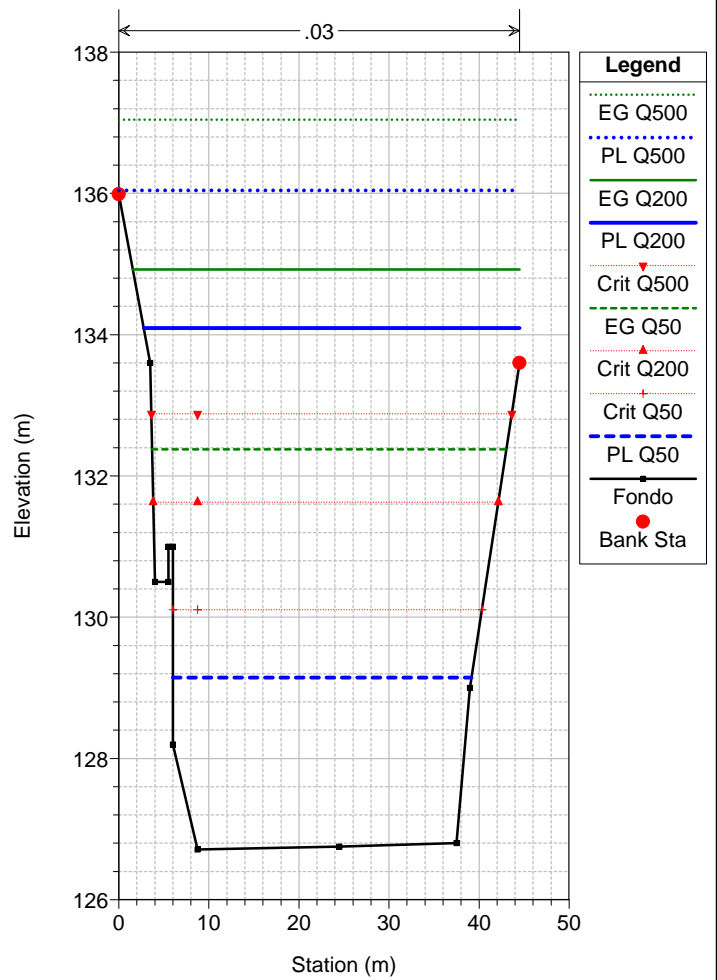
LAV-153



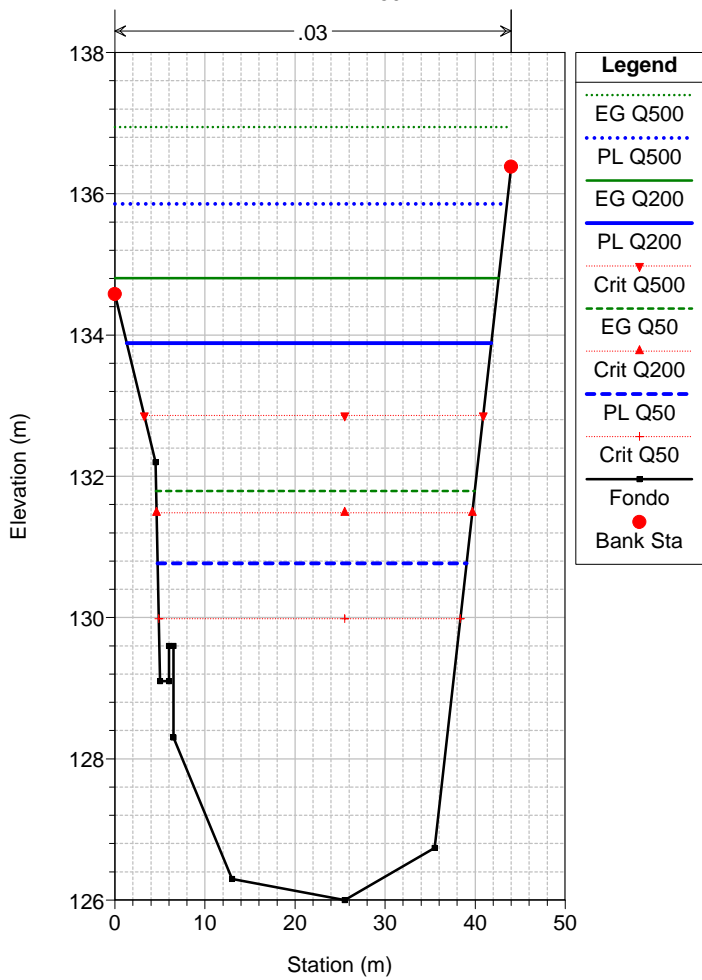
Torrente Lavagna Plan: 01_sett14
LAV-152



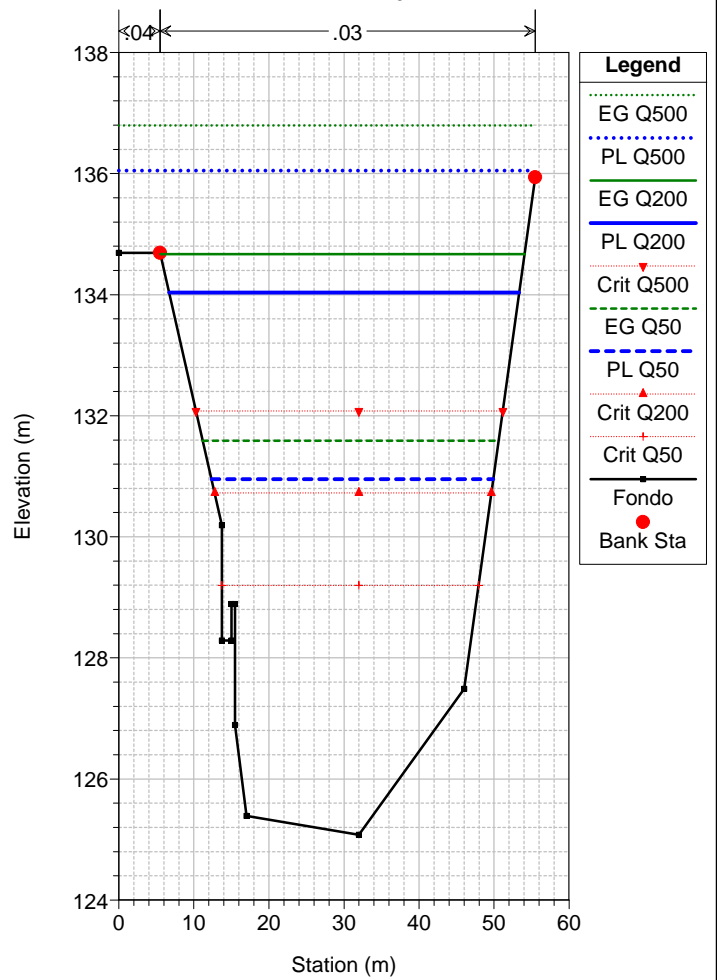
Torrente Lavagna Plan: 01_sett14
LAV-151



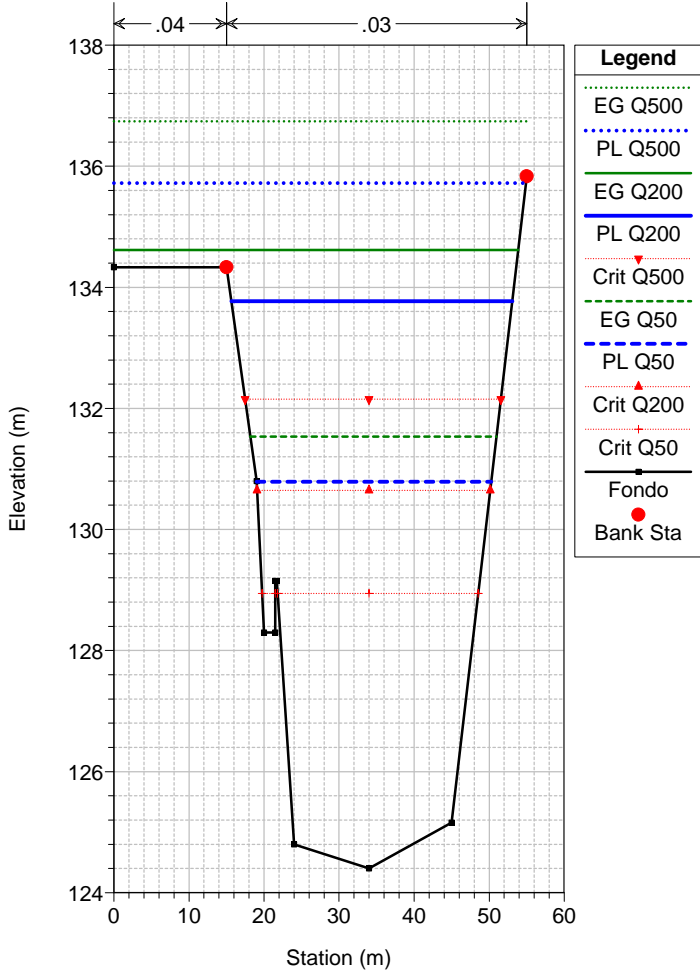
Torrente Lavagna Plan: 01_sett14
LAV-150



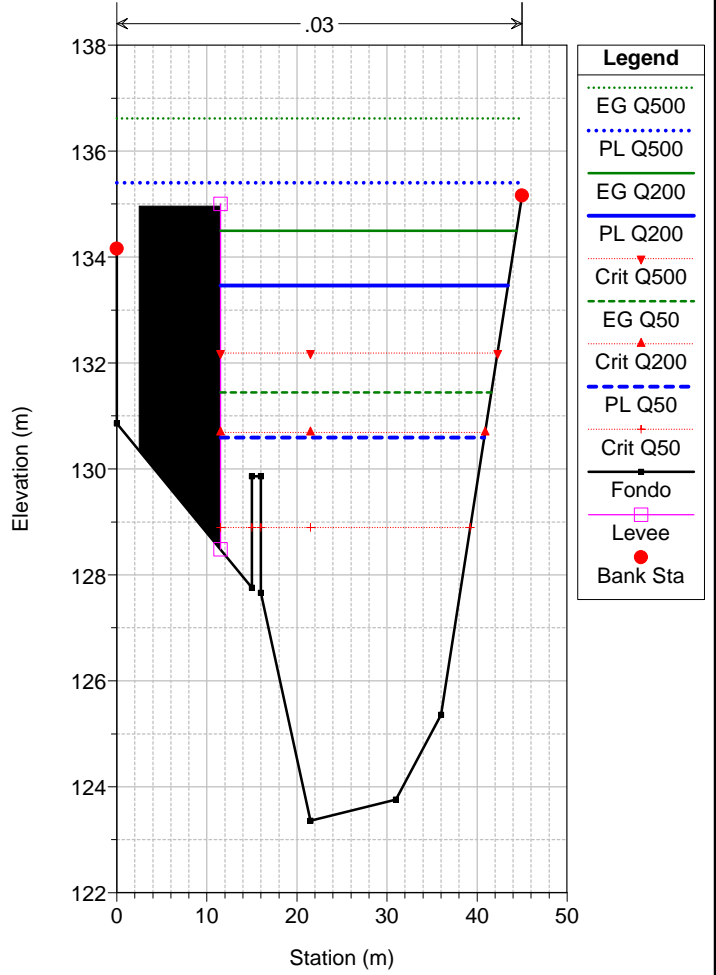
Torrente Lavagna Plan: 01_sett14
LAV-149



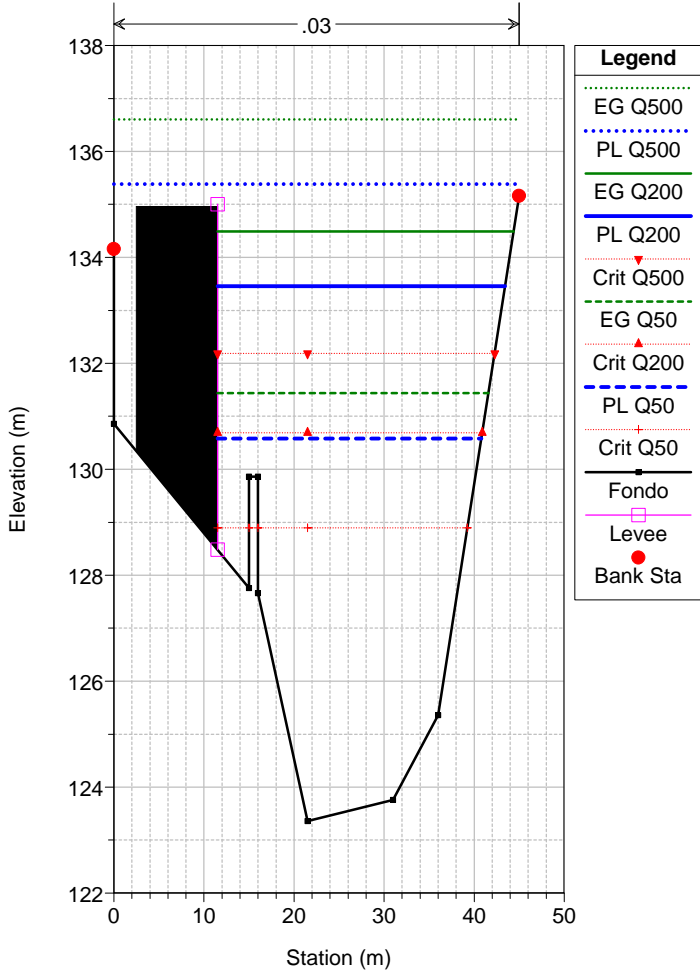
Torrente Lavagna Plan: 01_sett14
LAV-148



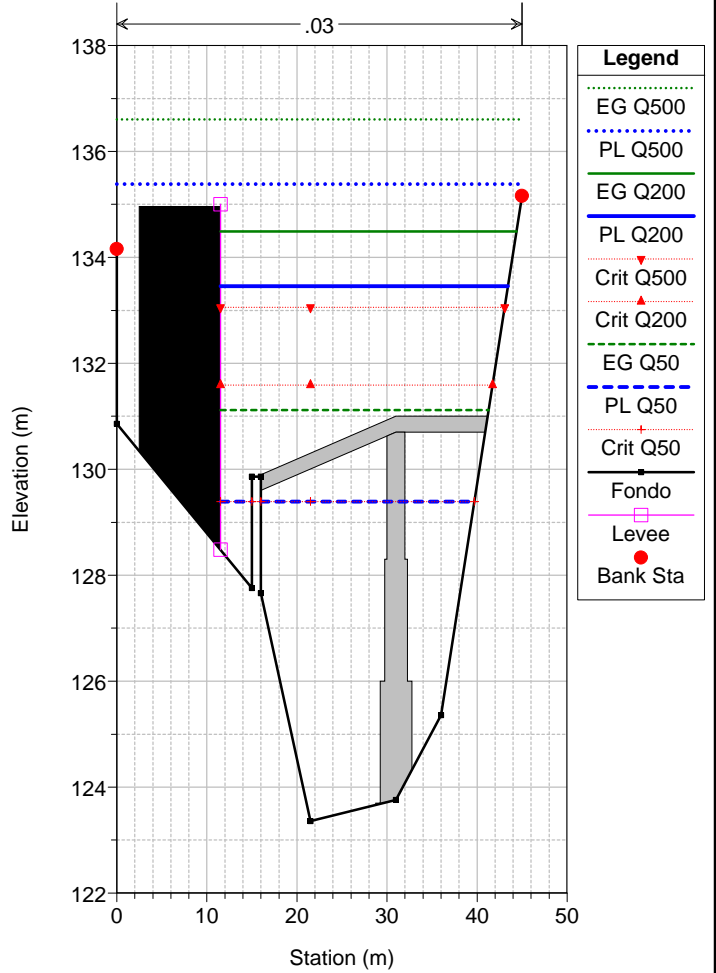
Torrente Lavagna Plan: 01_sett14
LAV-147



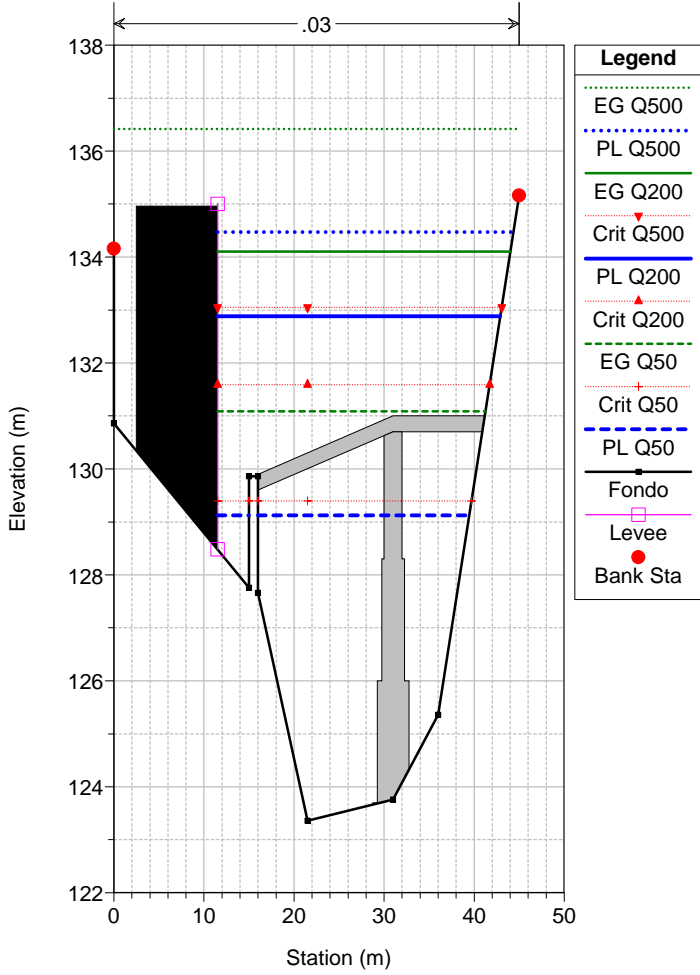
Torrente Lavagna Plan: 01_sett14
LAV-147



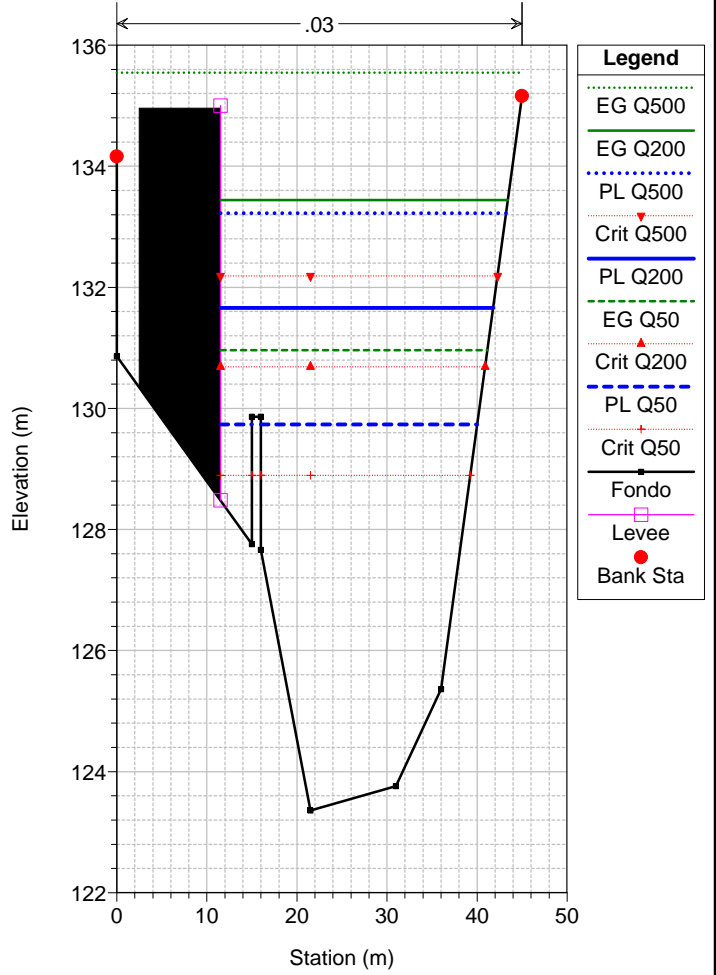
Torrente Lavagna Plan: 01_sett14
LAV-PT21



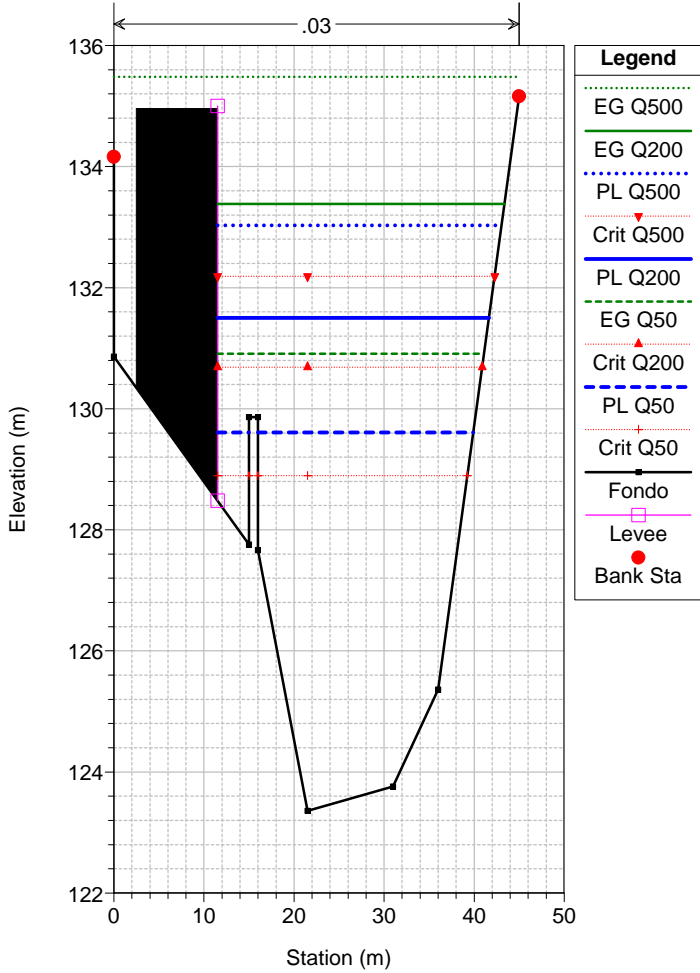
Torrente Lavagna Plan: 01_sett14
LAV-PT21



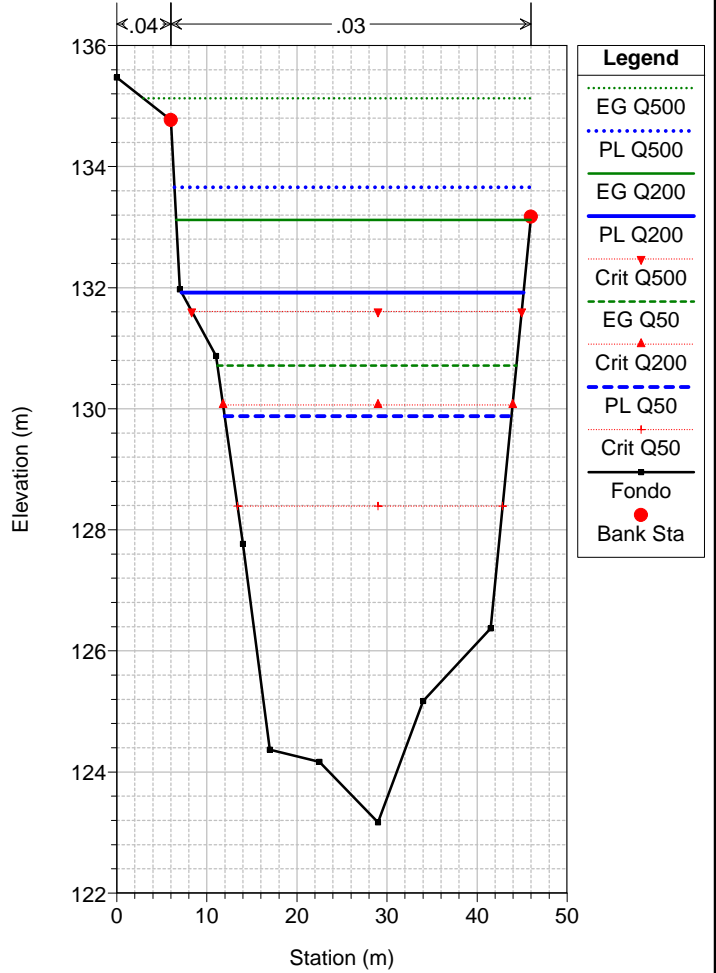
Torrente Lavagna Plan: 01_sett14
LAV-147



Torrente Lavagna Plan: 01_sett14
LAV-147

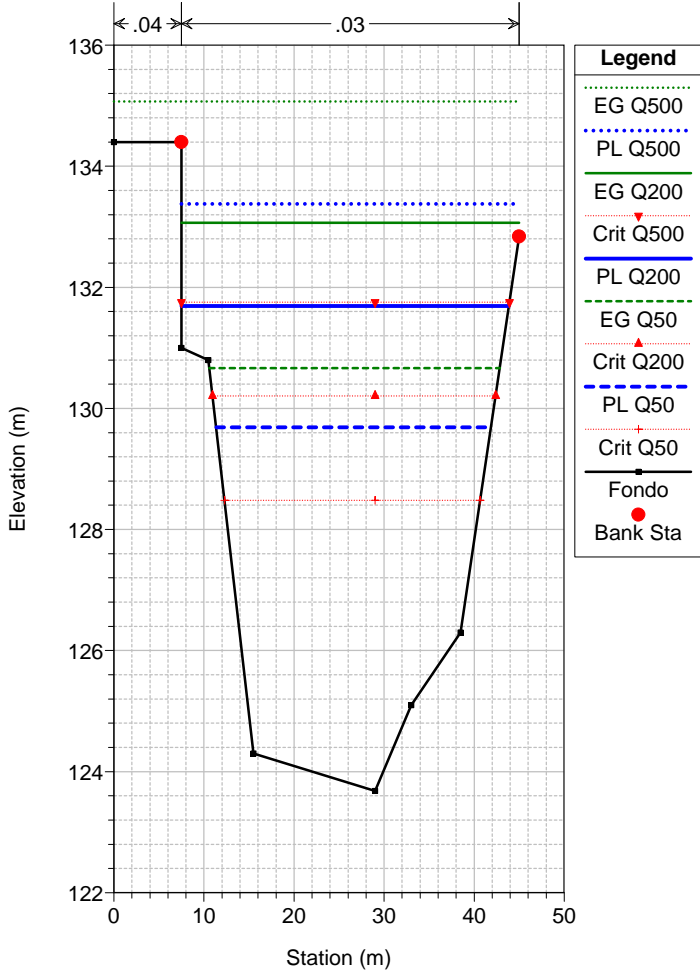


Torrente Lavagna Plan: 01_sett14
LAV-146



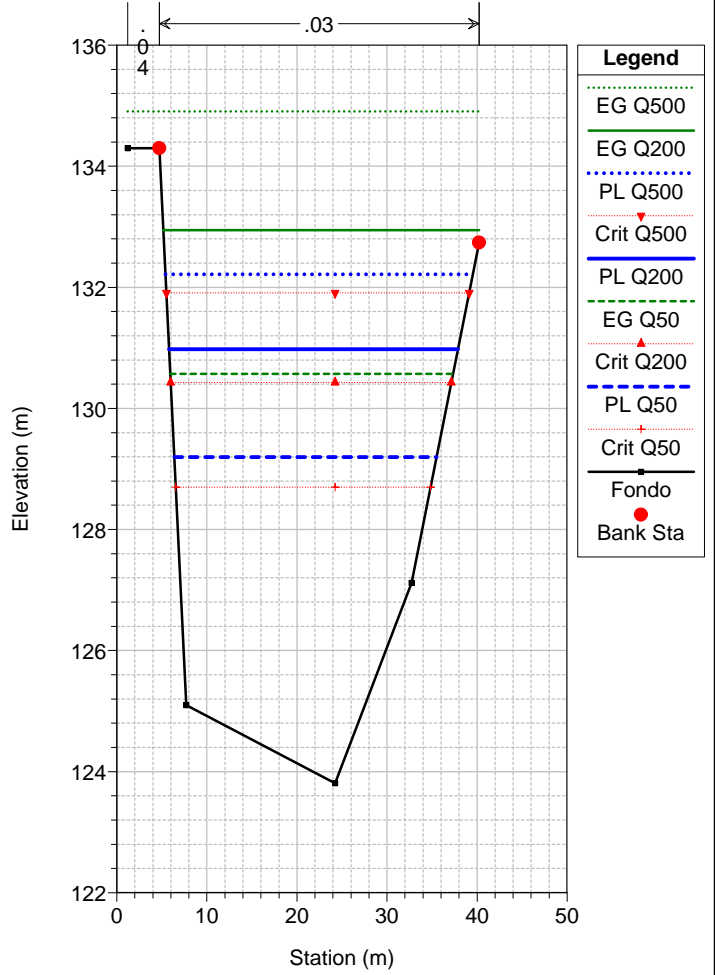
Torrente Lavagna Plan: 01_sett14

LAV-145



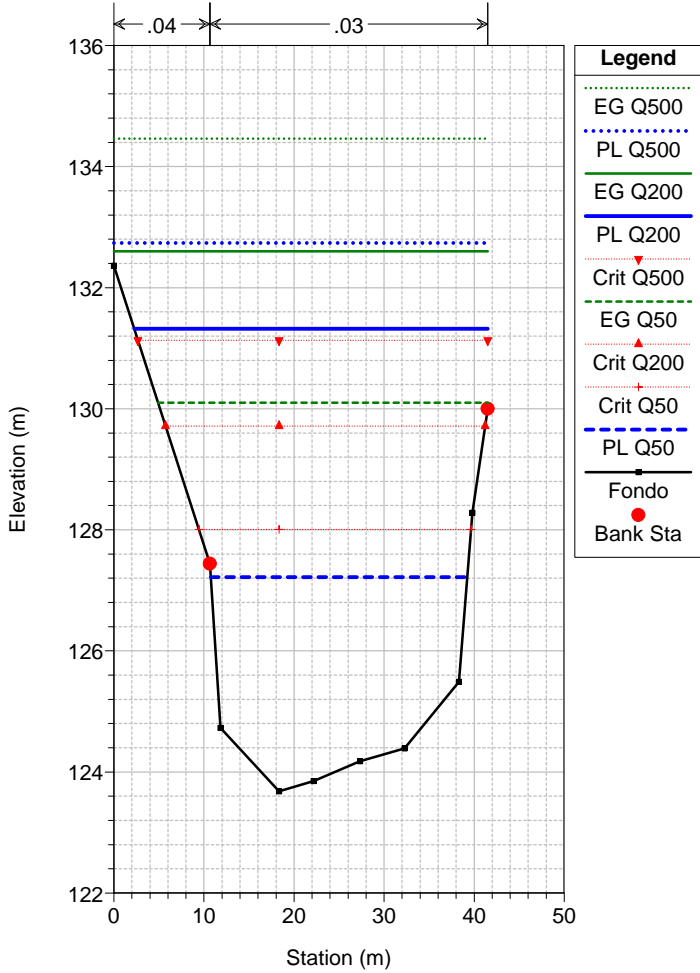
Torrente Lavagna Plan: 01_sett14

LAV-144



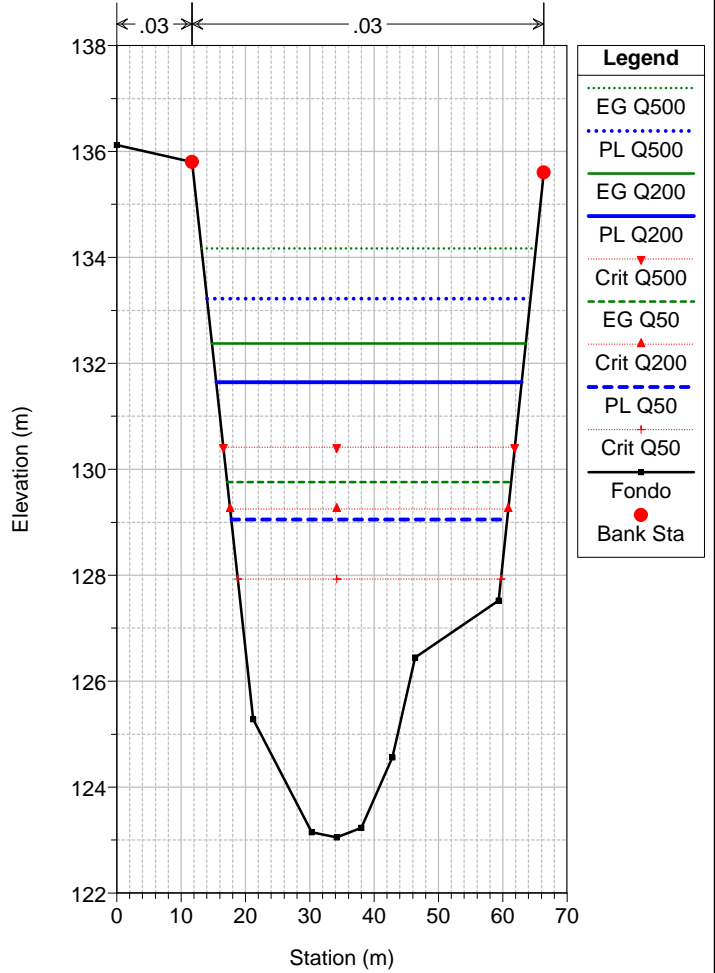
Torrente Lavagna Plan: 01_sett14

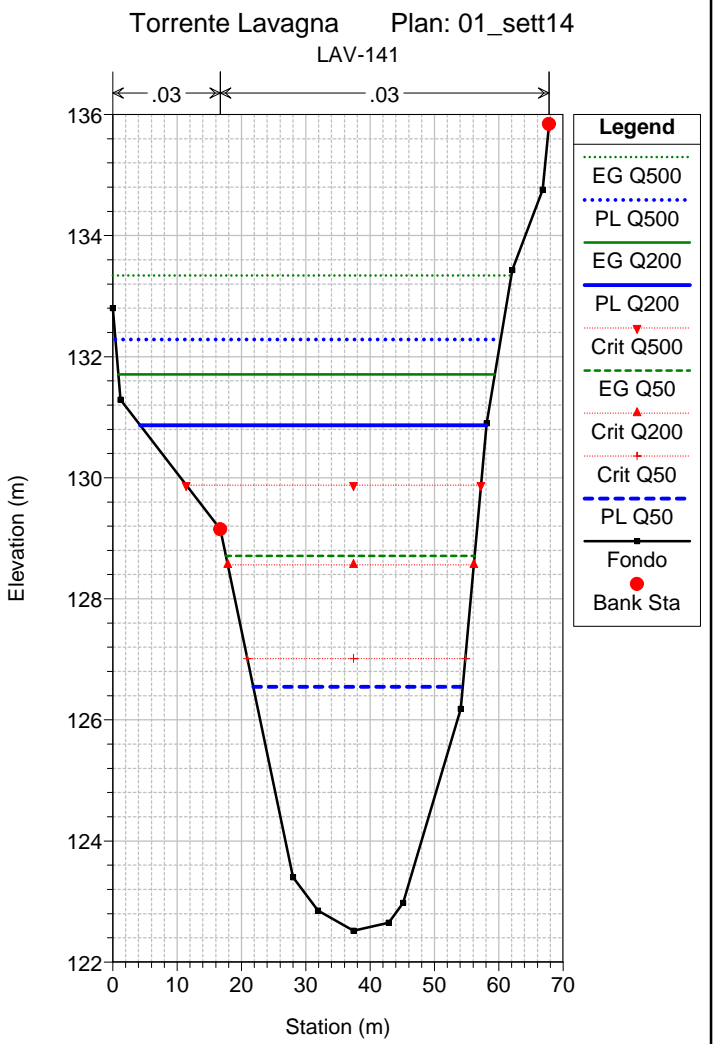
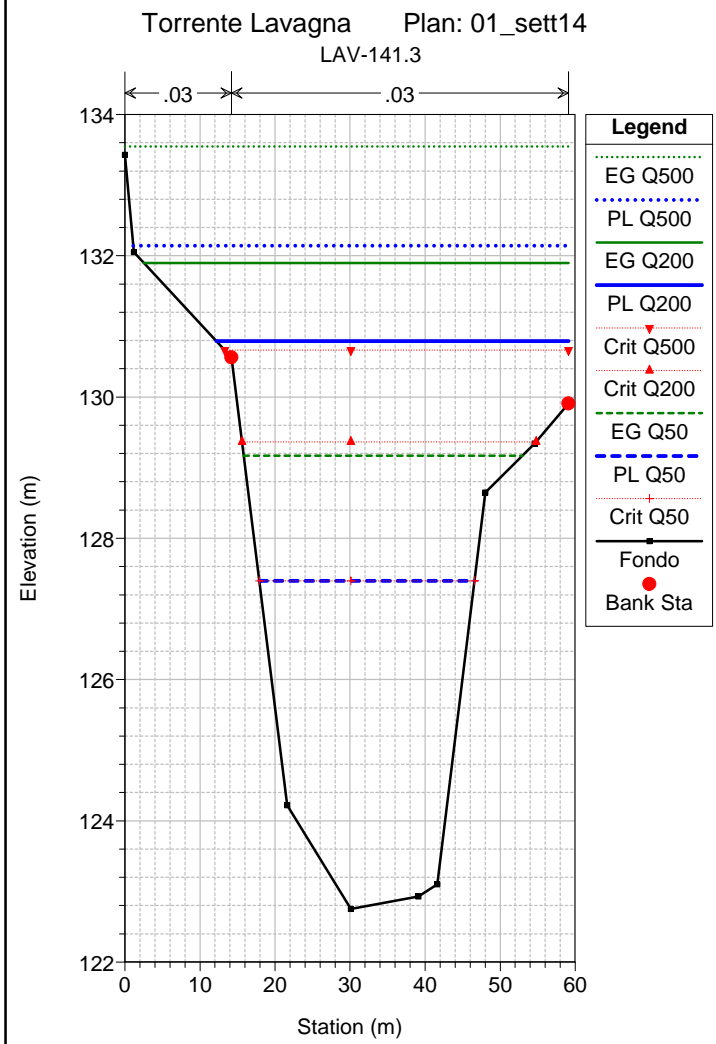
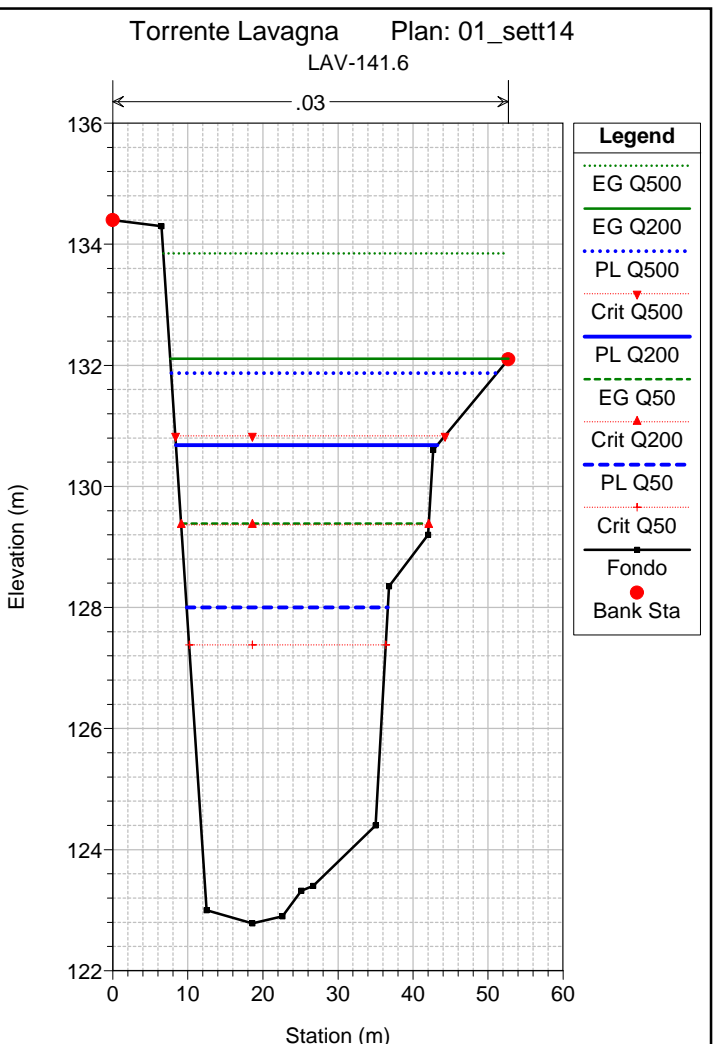
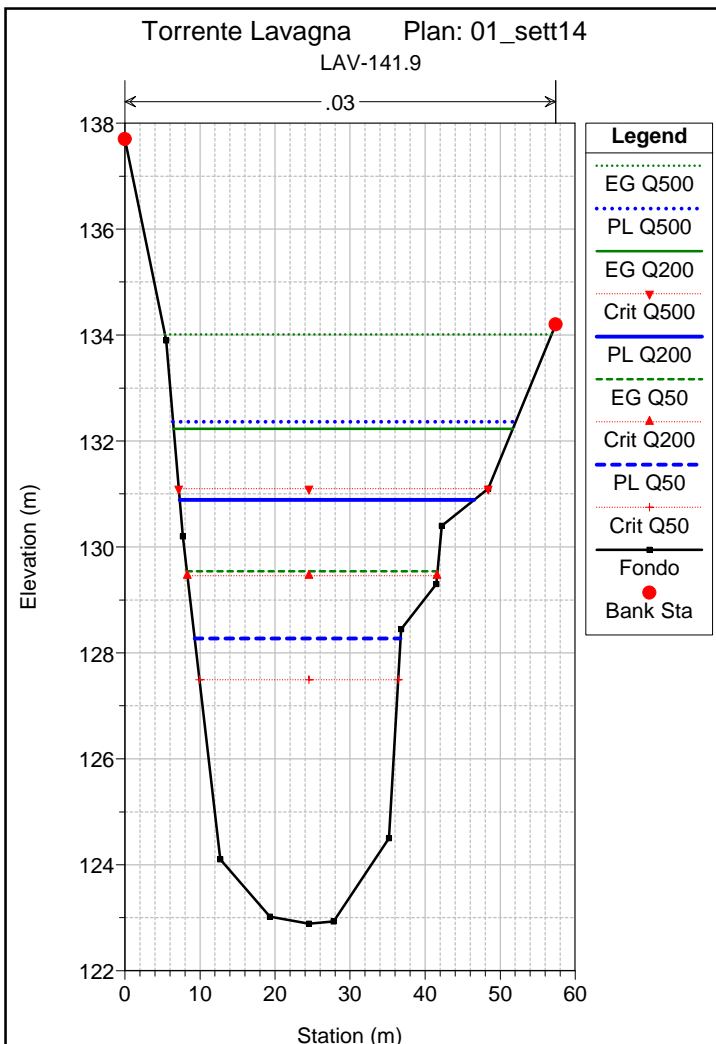
LAV-143



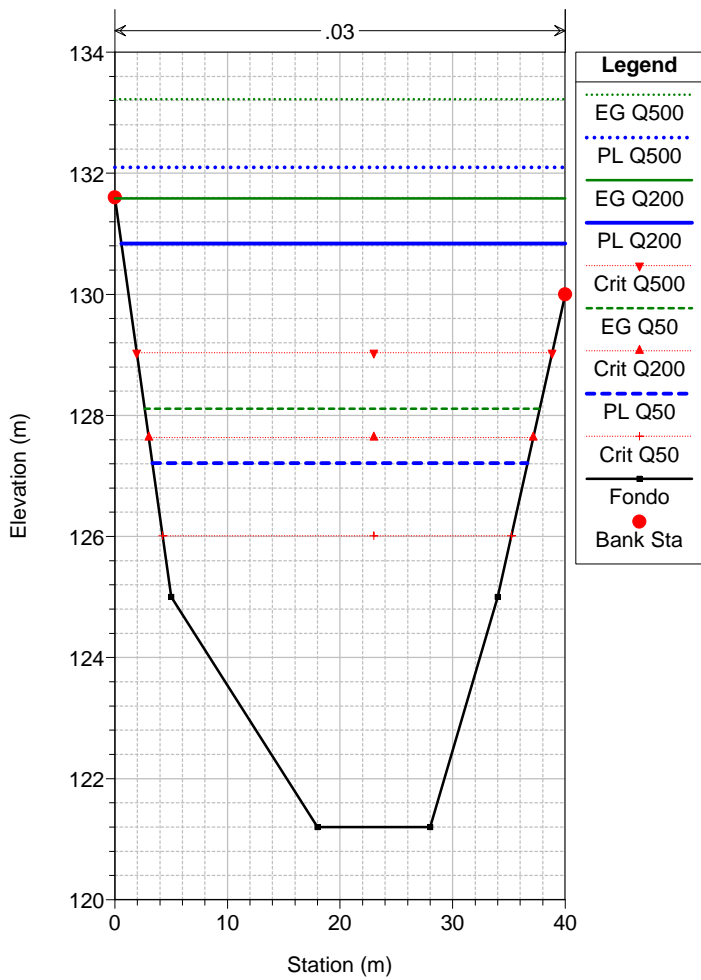
Torrente Lavagna Plan: 01_sett14

LAV-142

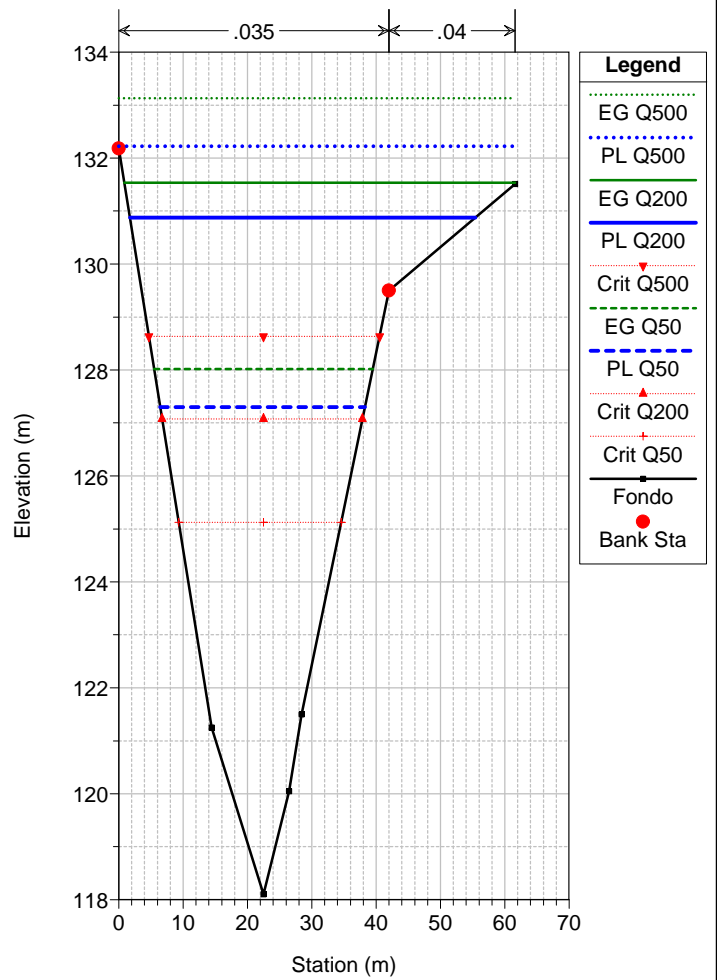




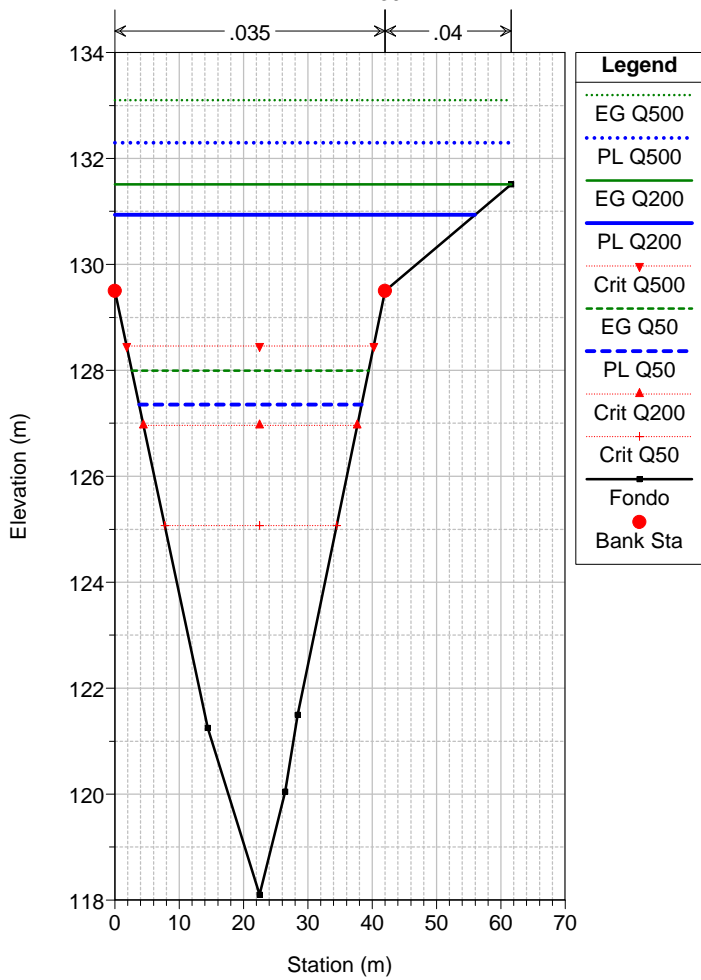
Torrente Lavagna Plan: 01_sett14
LAV-140



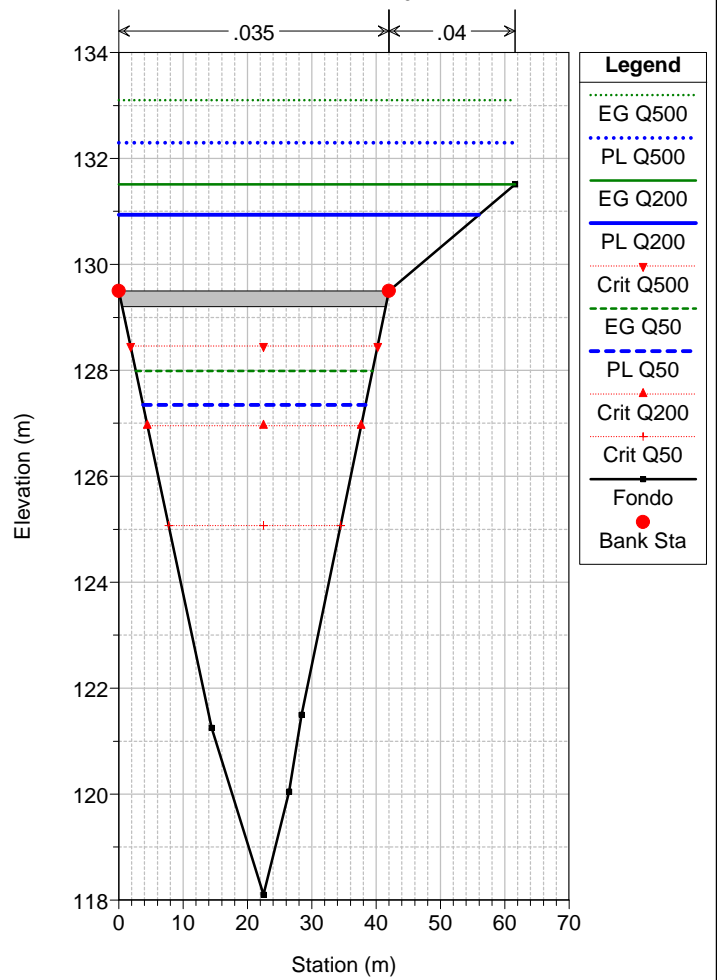
Torrente Lavagna Plan: 01_sett14
LAV-139



Torrente Lavagna Plan: 01_sett14
LAV-139

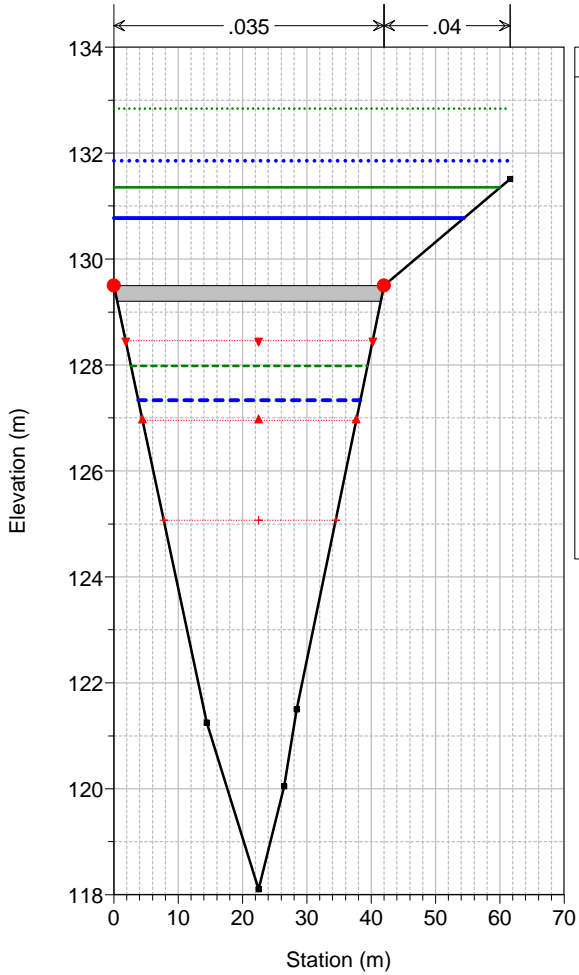


Torrente Lavagna Plan: 01_sett14
LAV-PT20



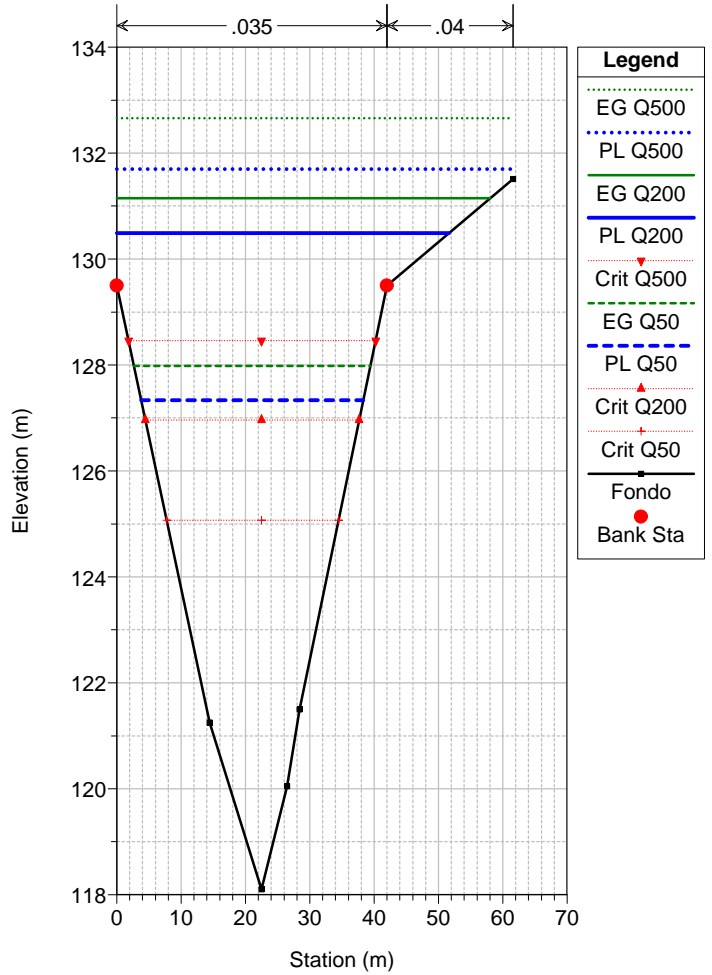
Torrente Lavagna Plan: 01_sett14

LAV-PT20



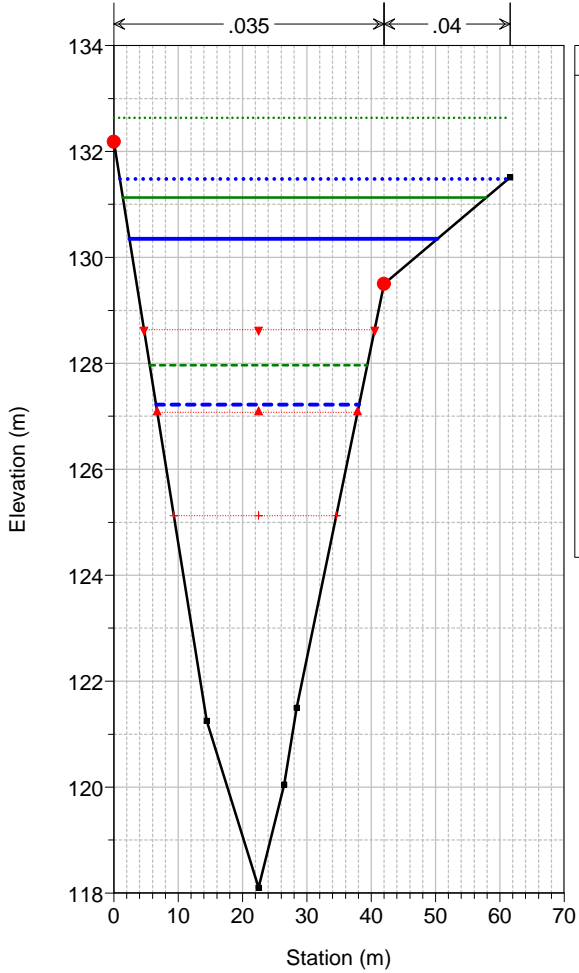
Torrente Lavagna Plan: 01_sett14

LAV-139



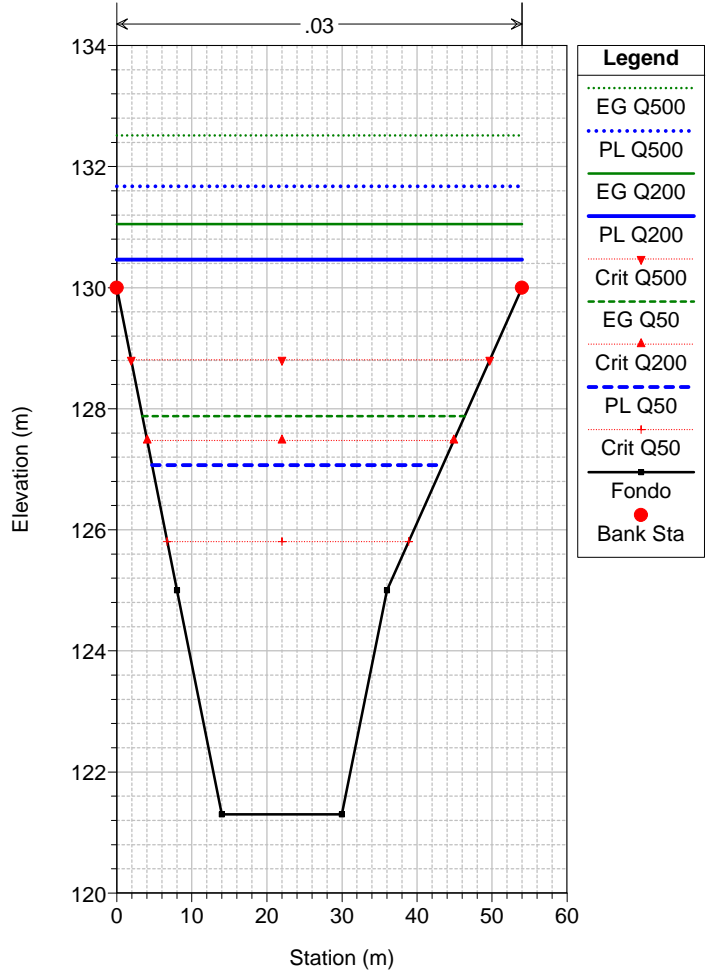
Torrente Lavagna Plan: 01_sett14

LAV-139

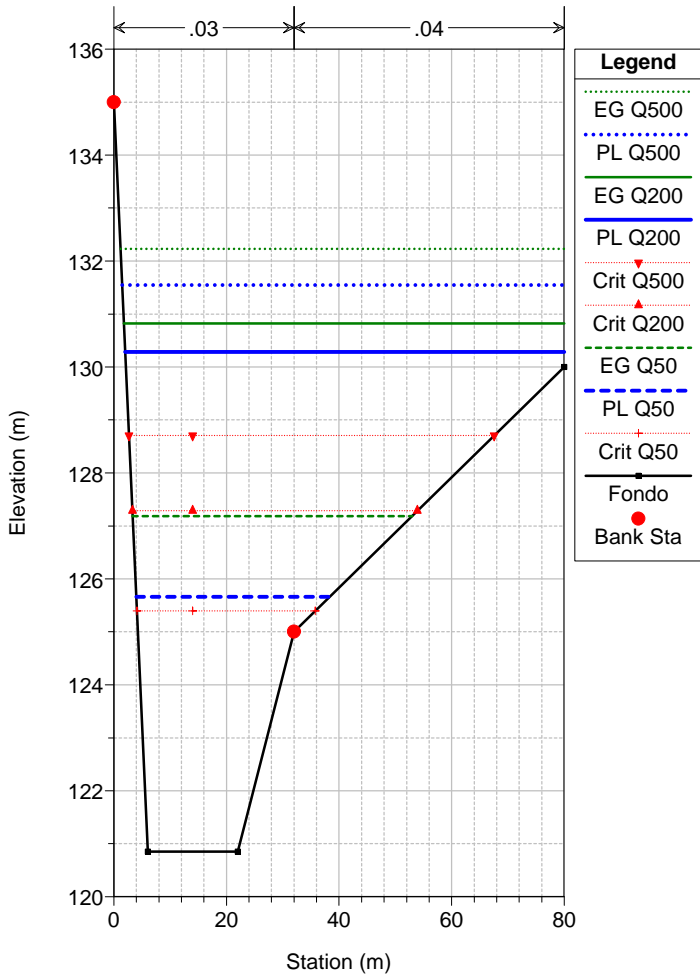


Torrente Lavagna Plan: 01_sett14

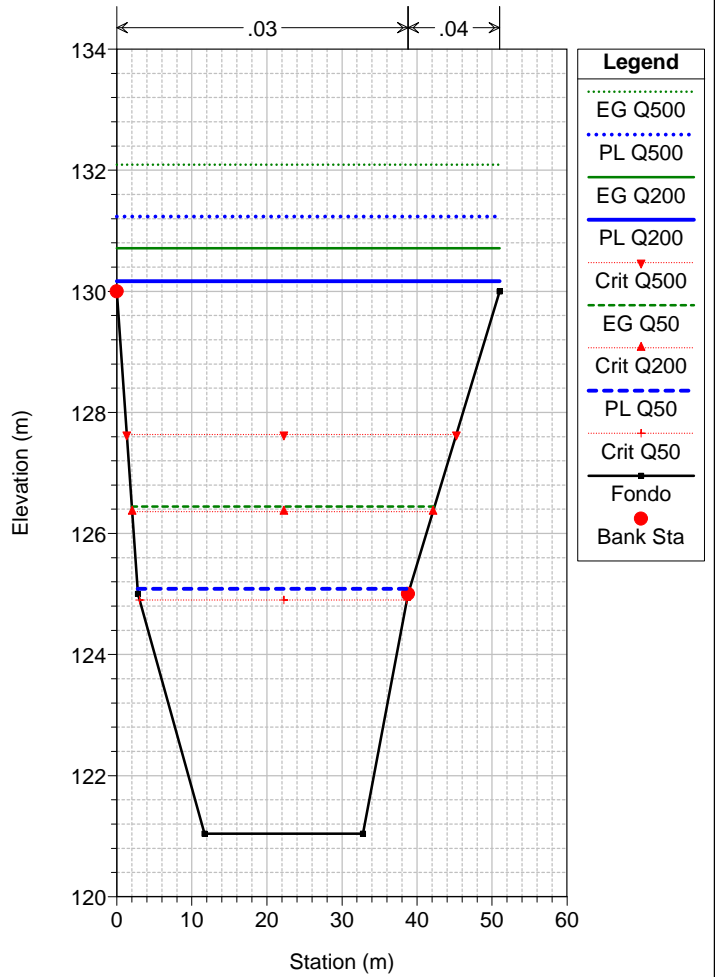
LAV-138



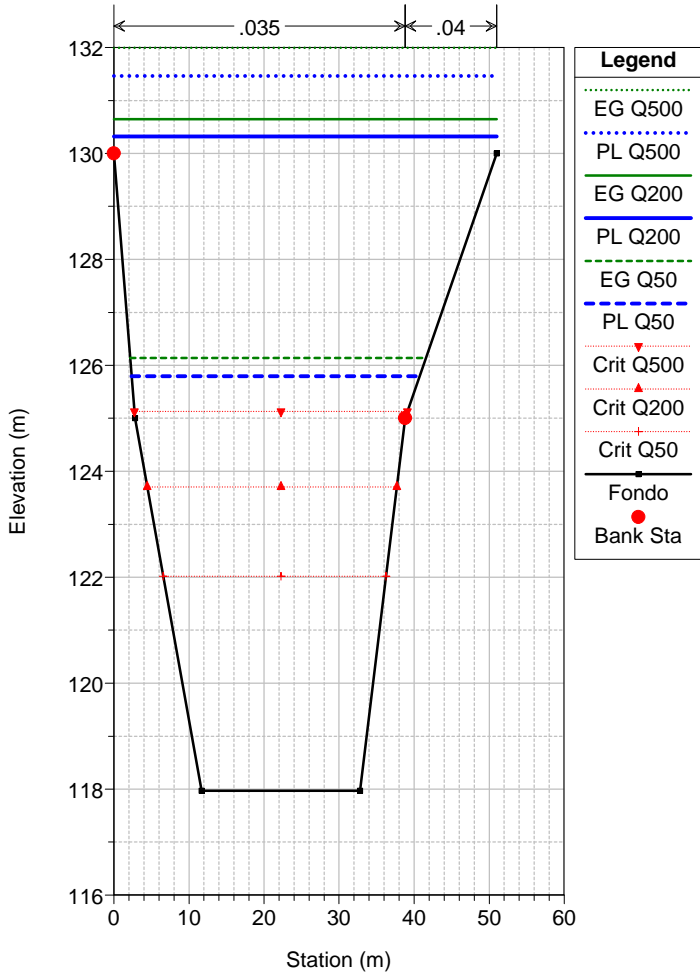
Torrente Lavagna Plan: 01_sett14
LAV-137



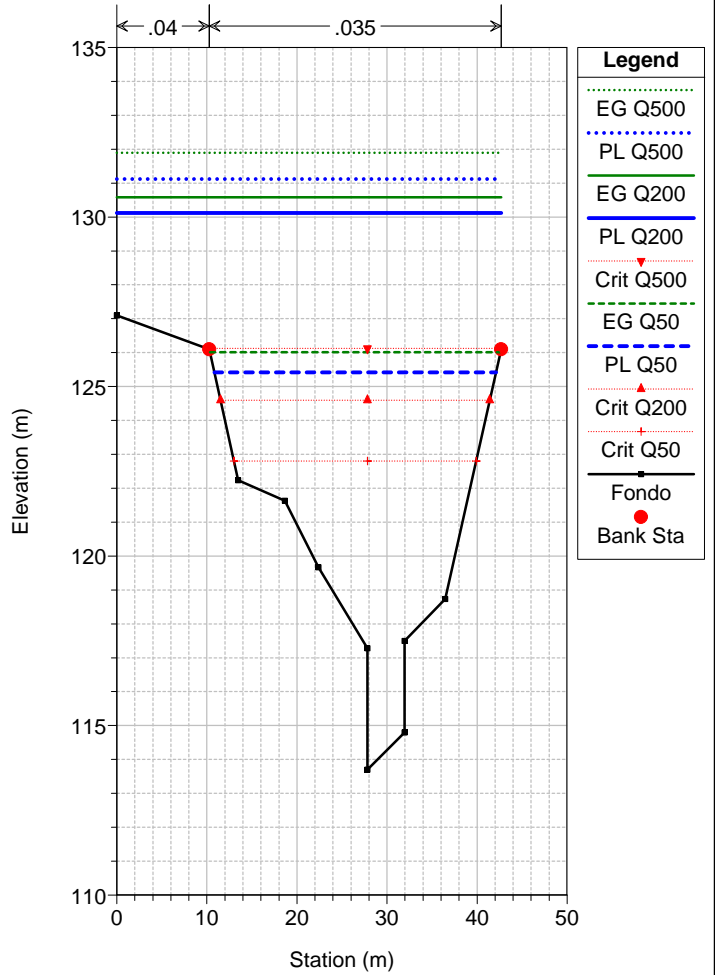
Torrente Lavagna Plan: 01_sett14
LAV-136



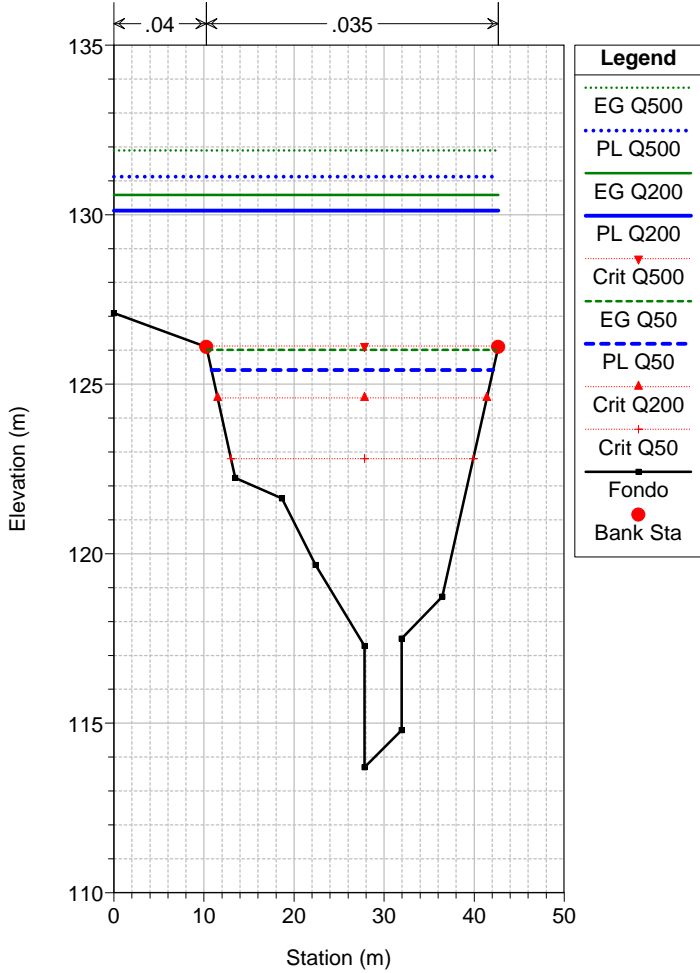
Torrente Lavagna Plan: 01_sett14
LAV-135



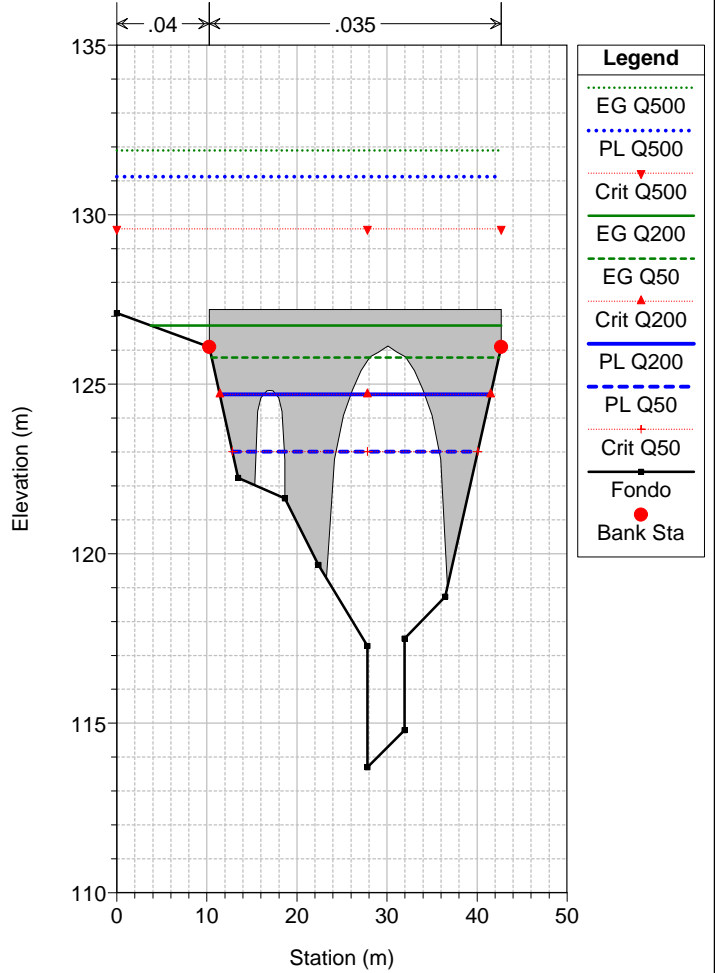
Torrente Lavagna Plan: 01_sett14
LAV-134



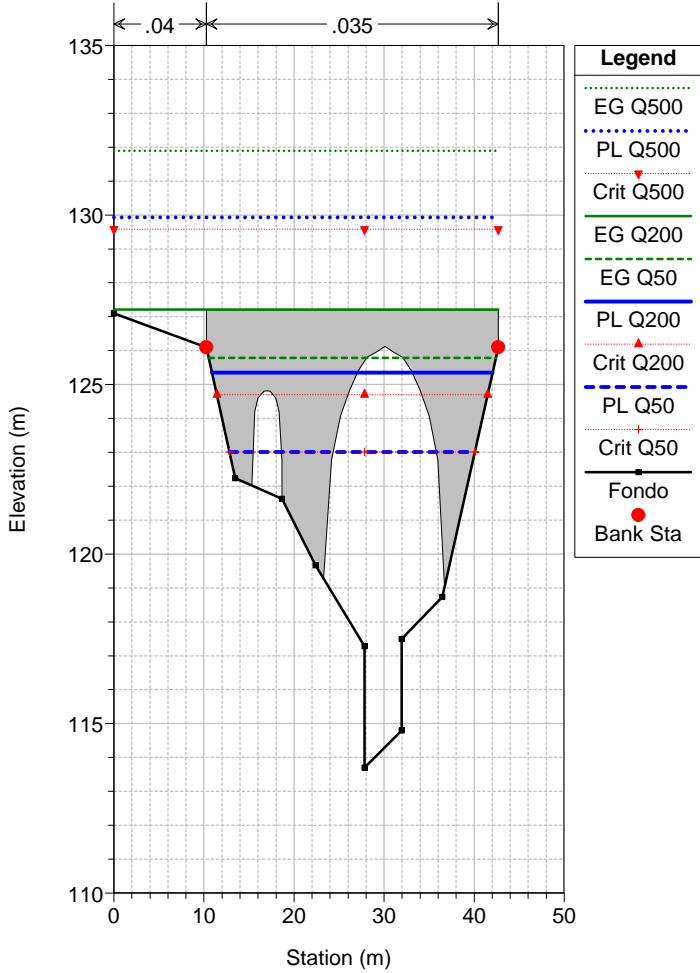
Torrente Lavagna Plan: 01_sett14
LAV-134



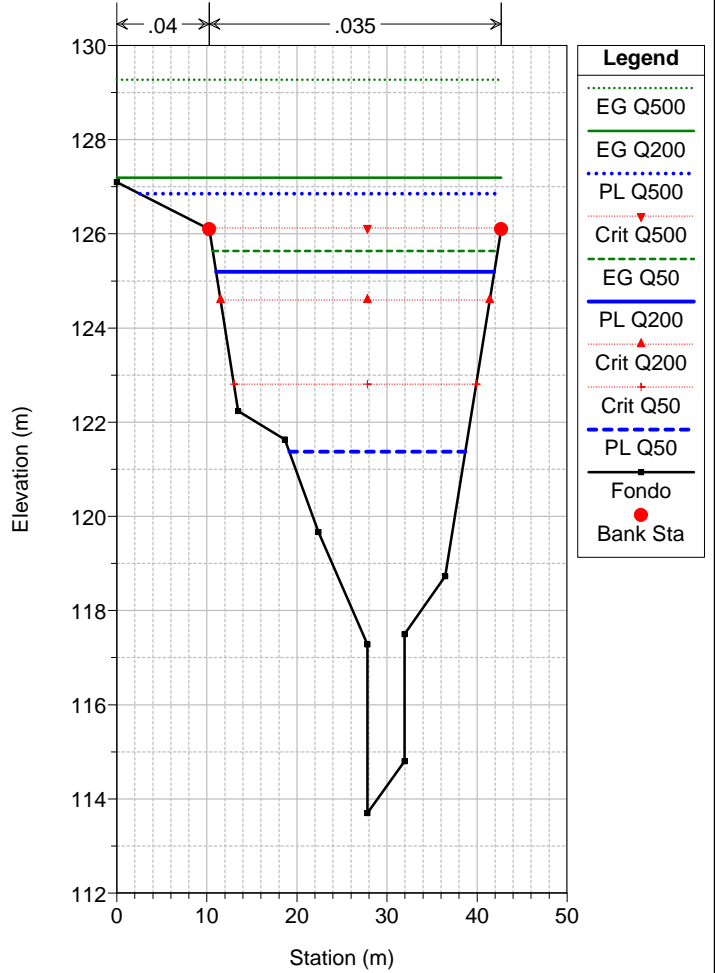
Torrente Lavagna Plan: 01_sett14
LAV-PT19



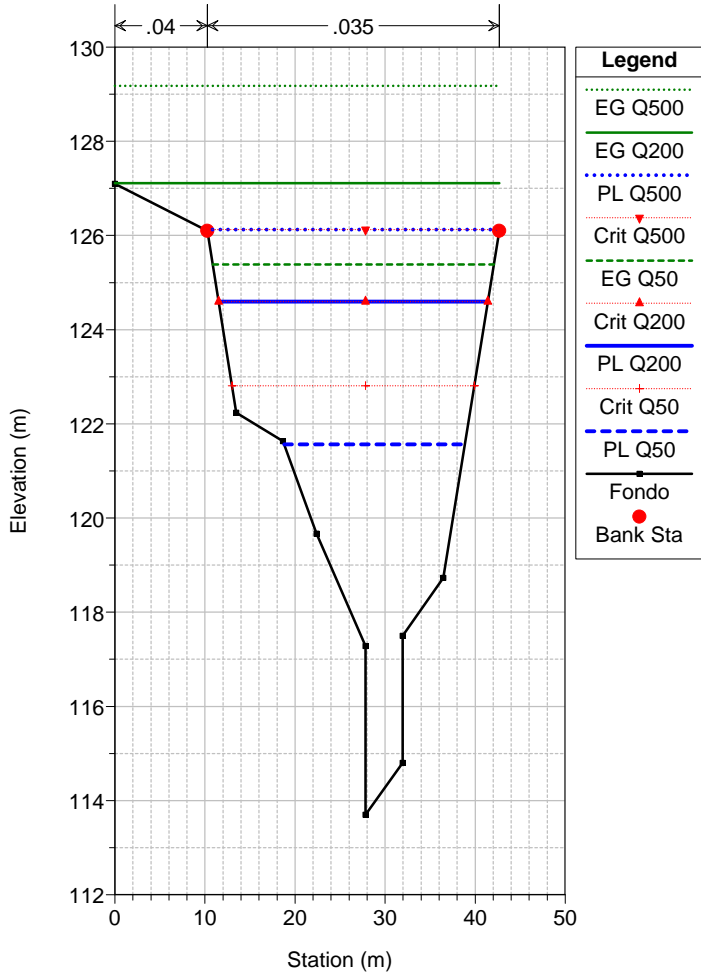
Torrente Lavagna Plan: 01_sett14
LAV-PT19



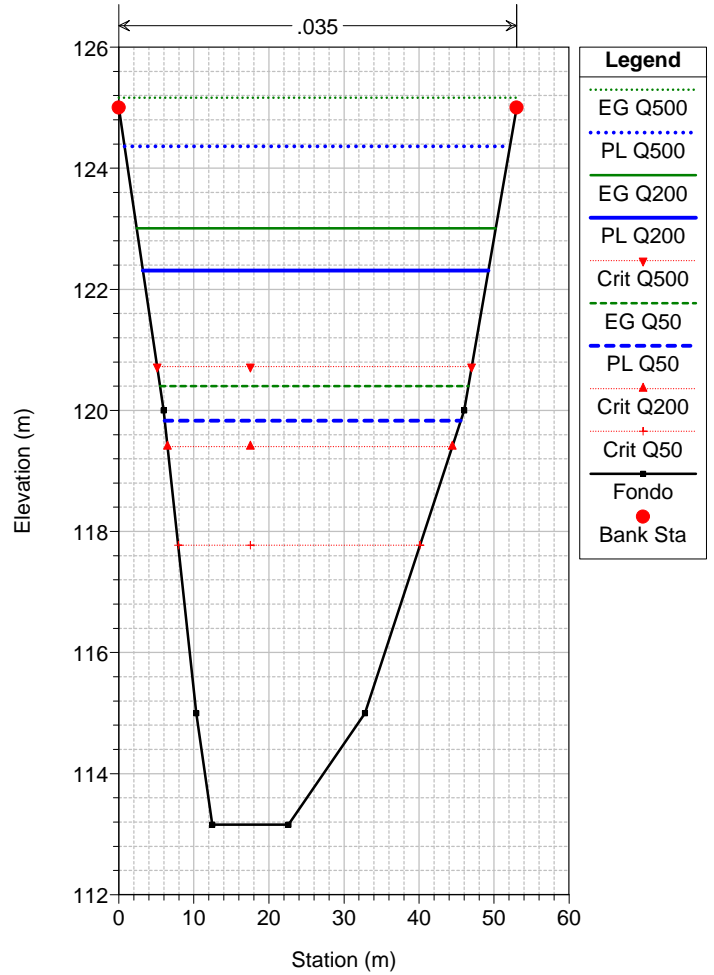
Torrente Lavagna Plan: 01_sett14
LAV-134



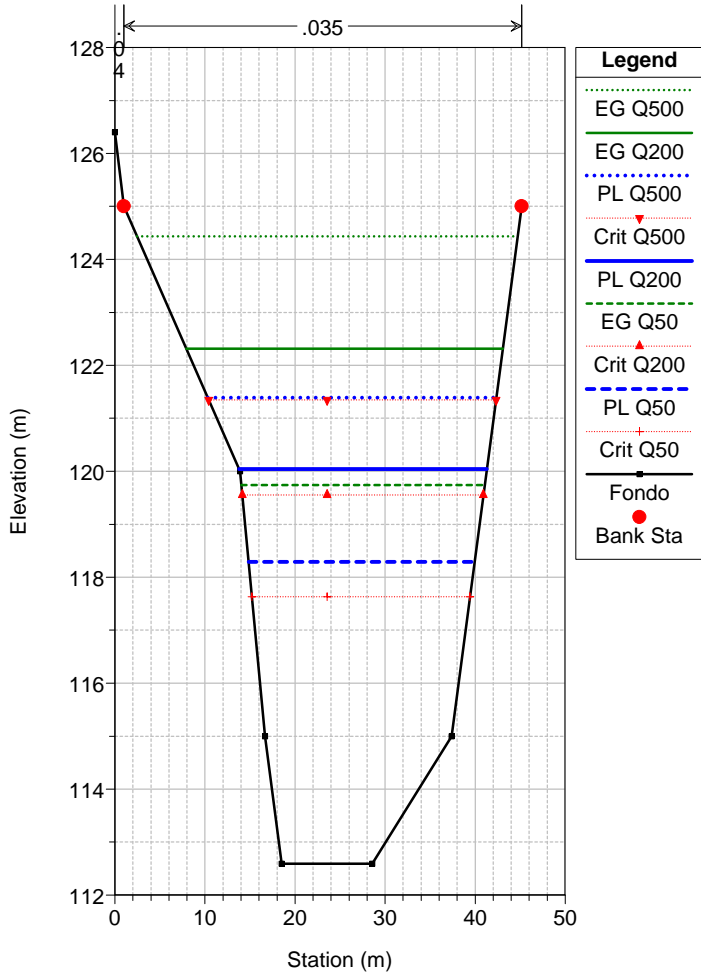
Torrente Lavagna Plan: 01_sett14
LAV-134



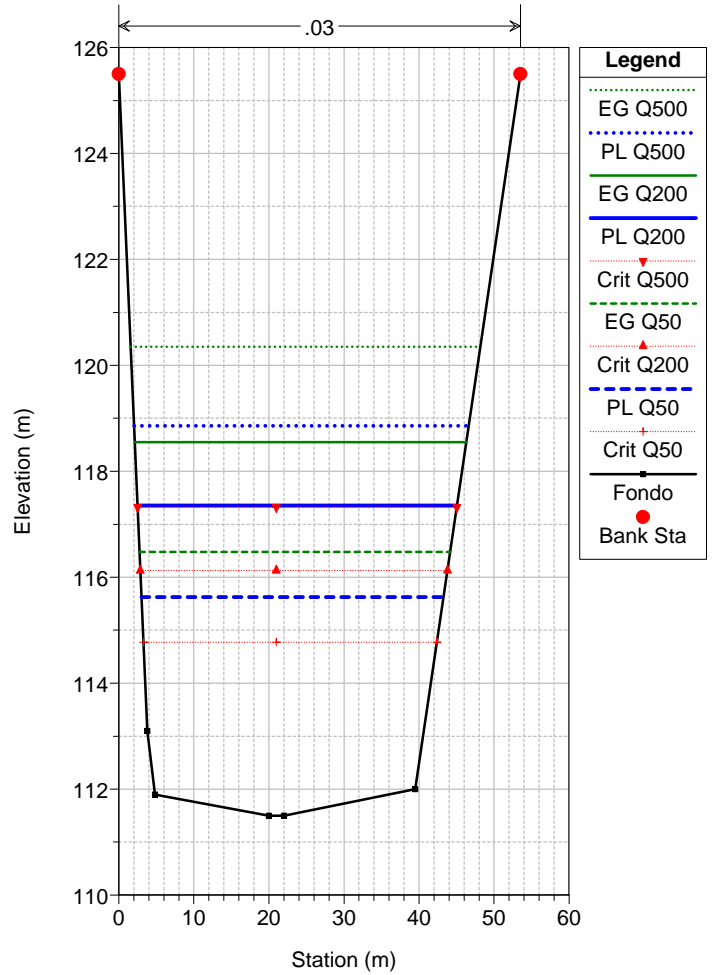
Torrente Lavagna Plan: 01_sett14
LAV-133



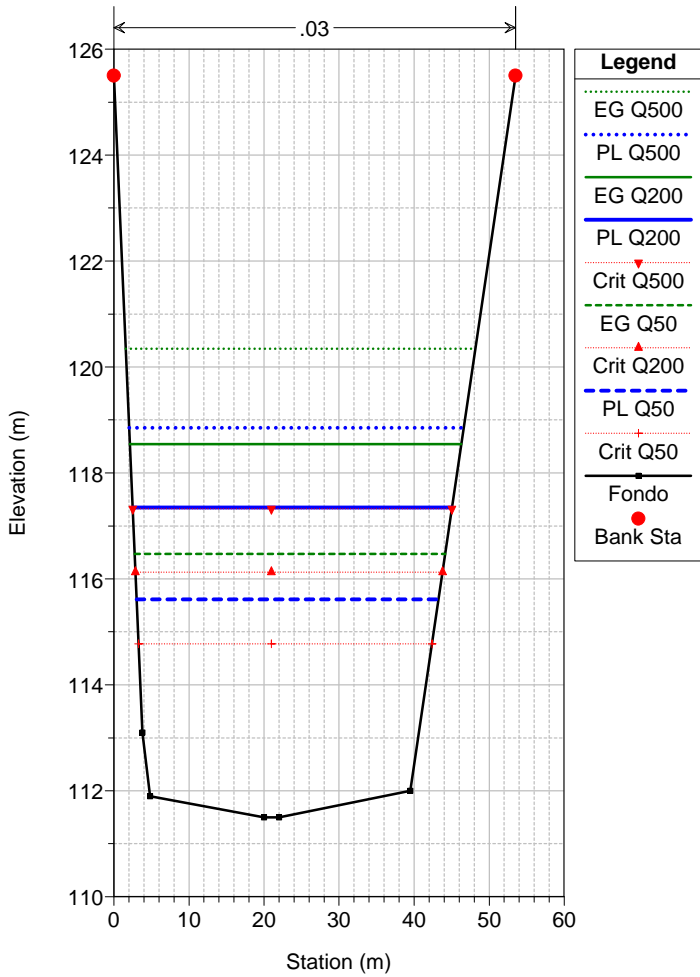
Torrente Lavagna Plan: 01_sett14
LAV-132



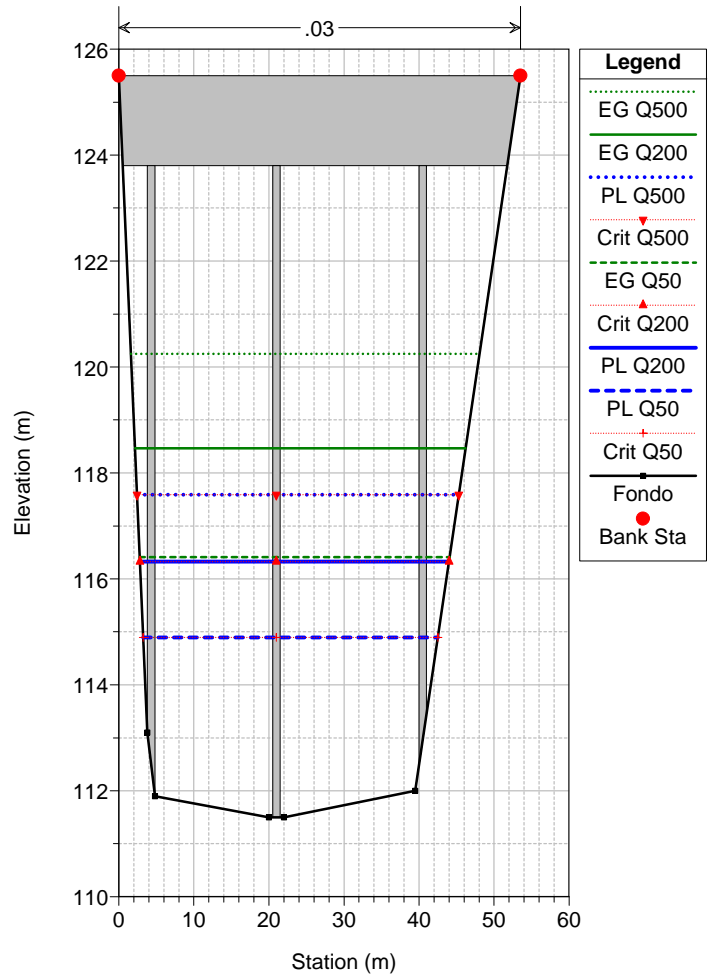
Torrente Lavagna Plan: 01_sett14
LAV-131



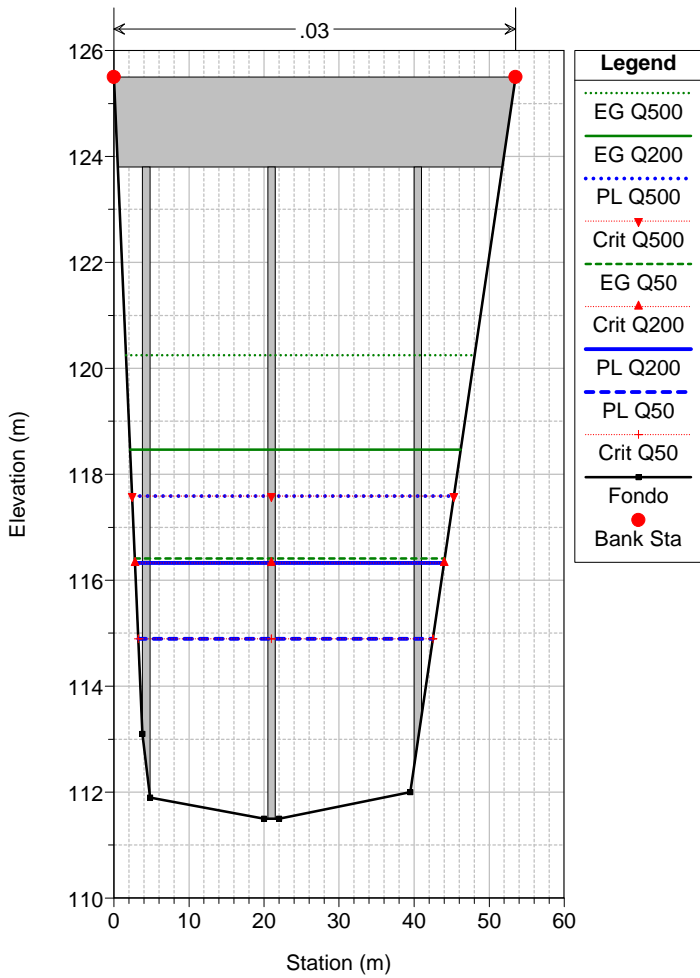
Torrente Lavagna Plan: 01_sett14
LAV-131



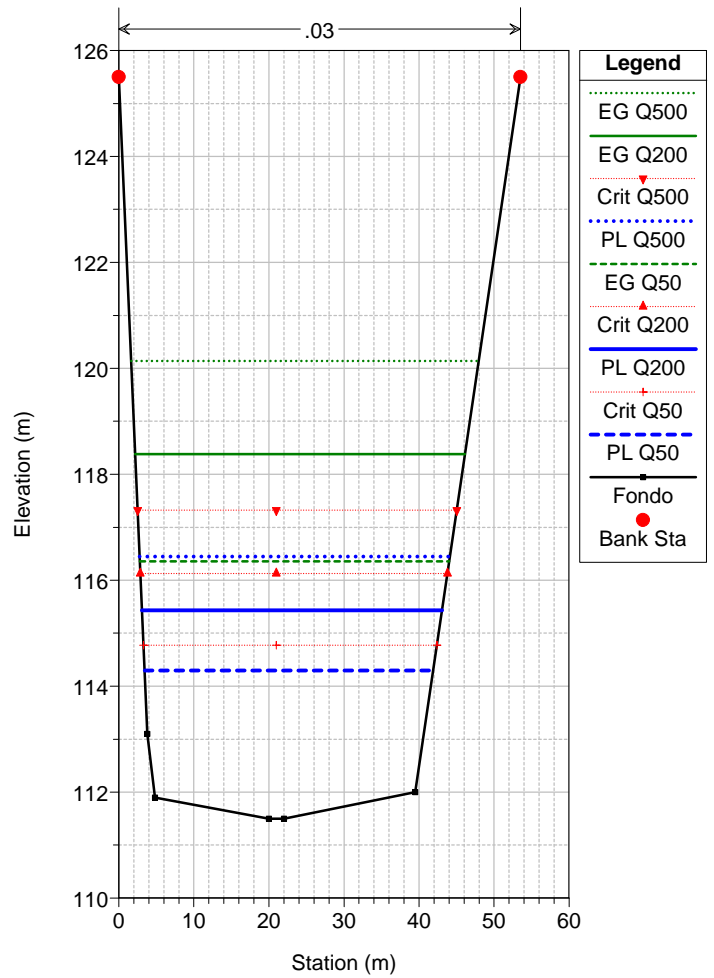
Torrente Lavagna Plan: 01_sett14
LAV-PT18



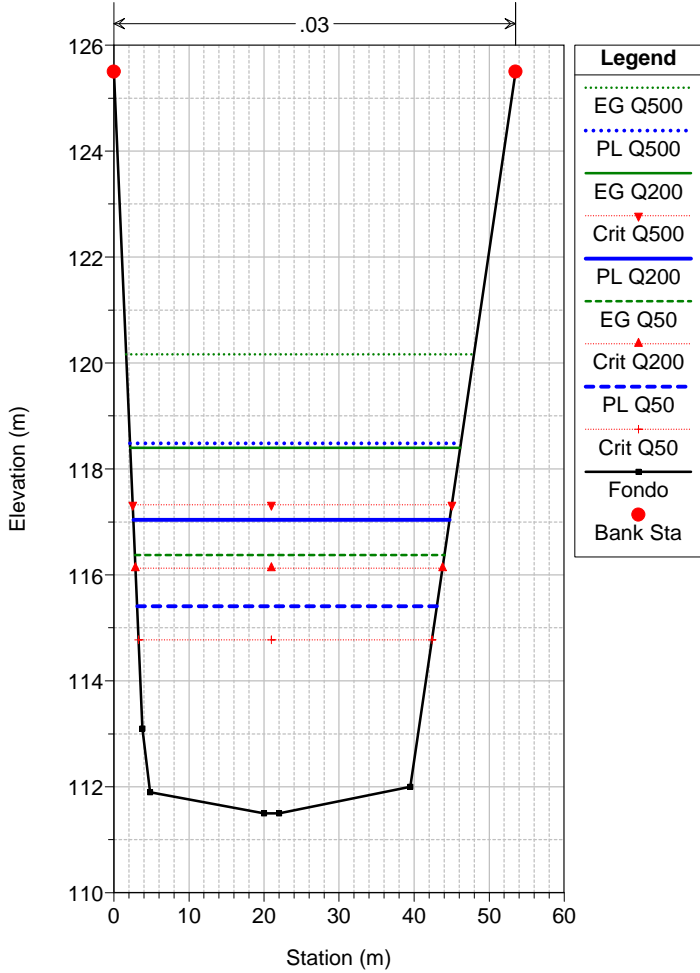
Torrente Lavagna Plan: 01_sett14
LAV-PT18



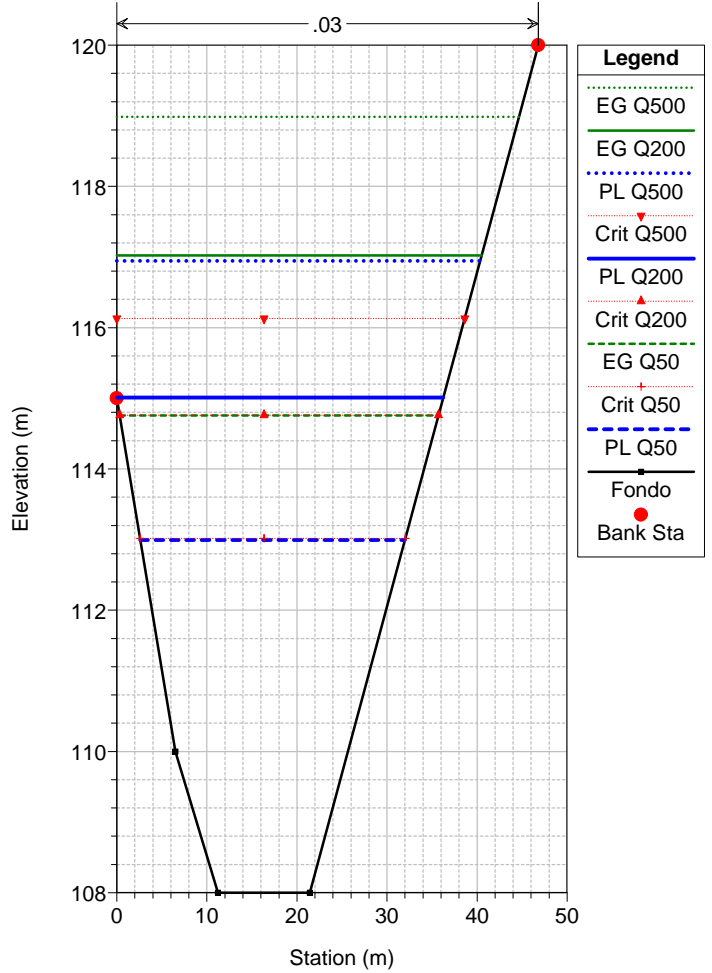
Torrente Lavagna Plan: 01_sett14
LAV-131



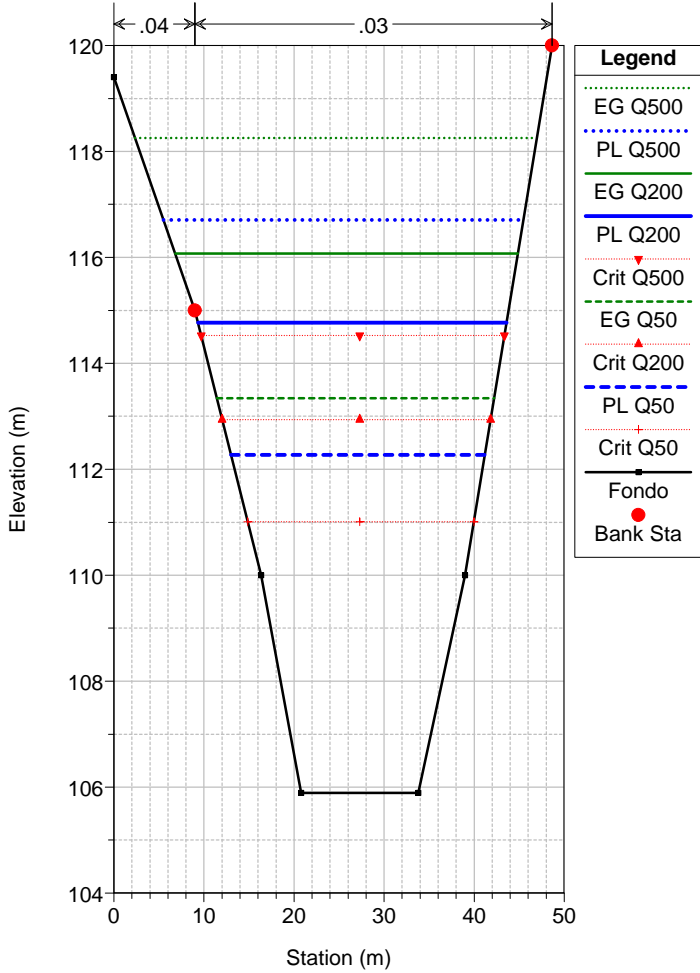
Torrente Lavagna Plan: 01_sett14
LAV-131



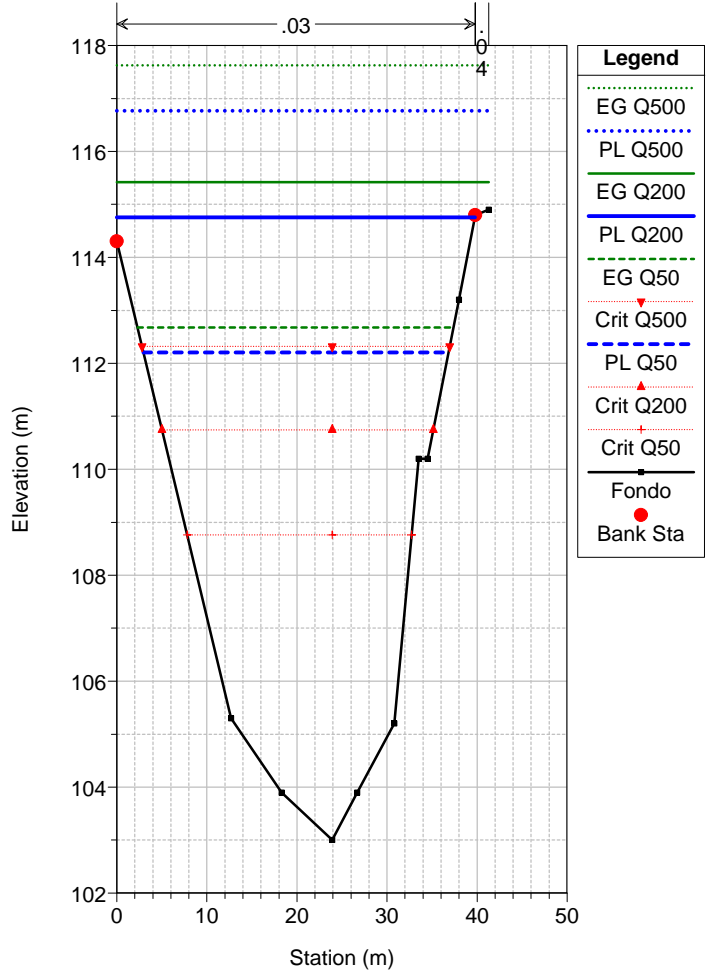
Torrente Lavagna Plan: 01_sett14
LAV-130



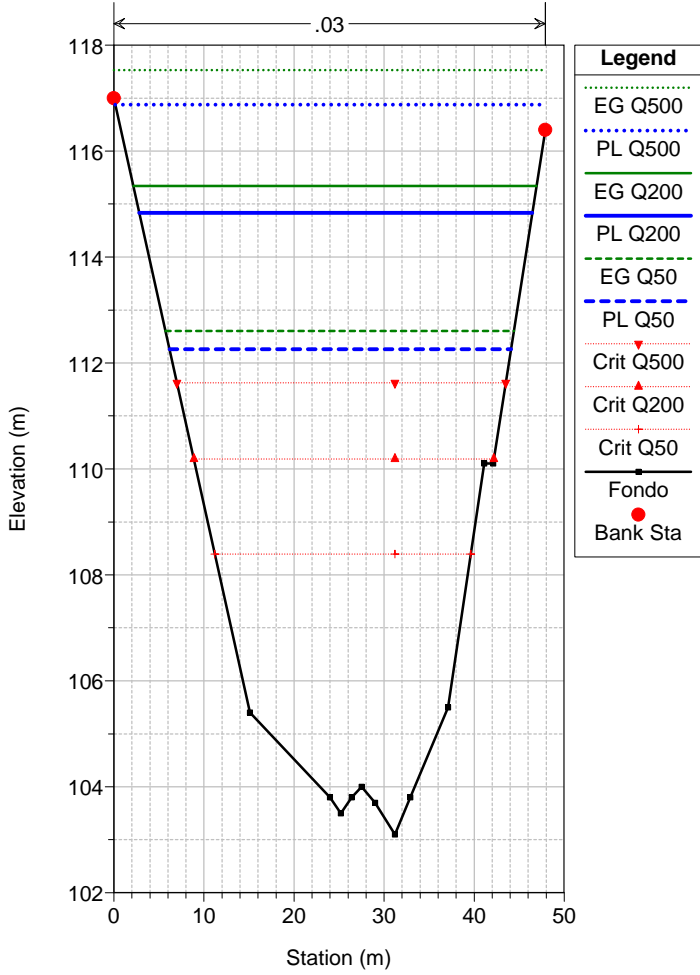
Torrente Lavagna Plan: 01_sett14
LAV-129



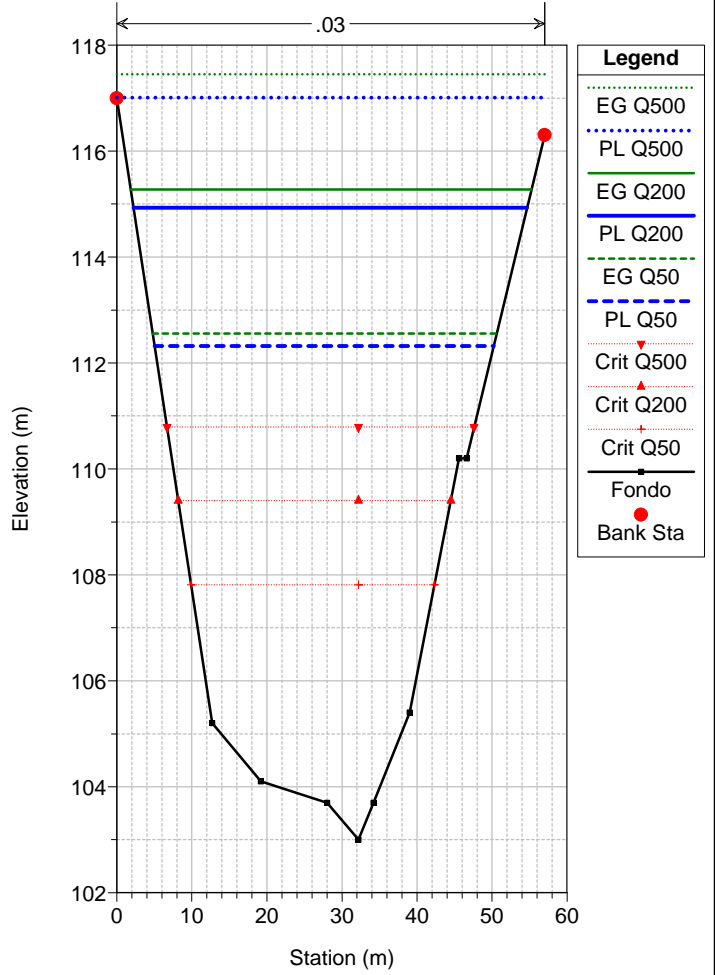
Torrente Lavagna Plan: 01_sett14
LAV-128



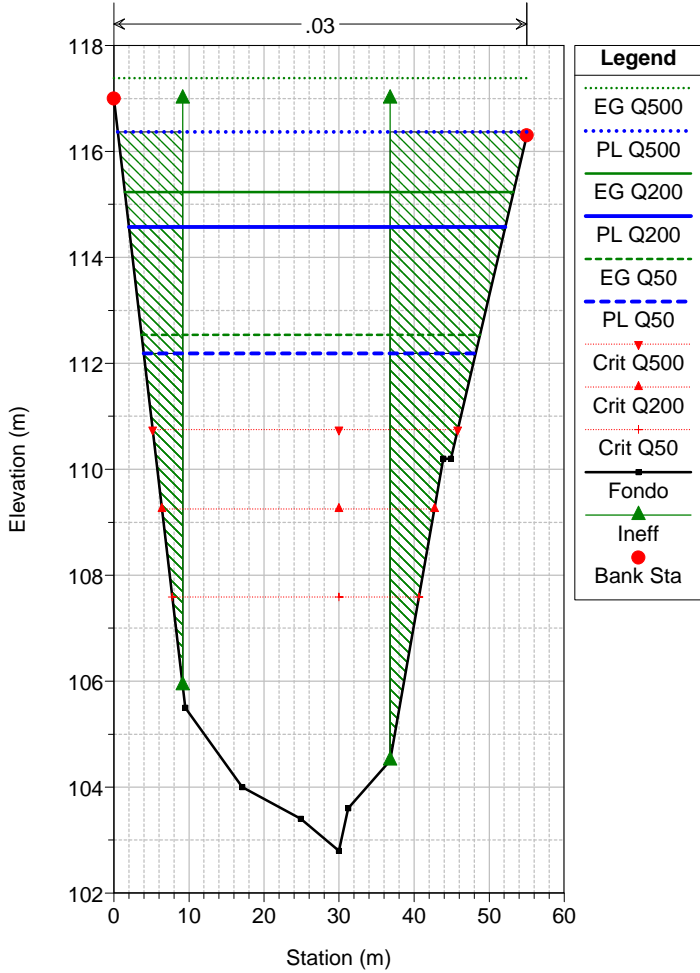
Torrente Lavagna Plan: 01_sett14
LAV-127



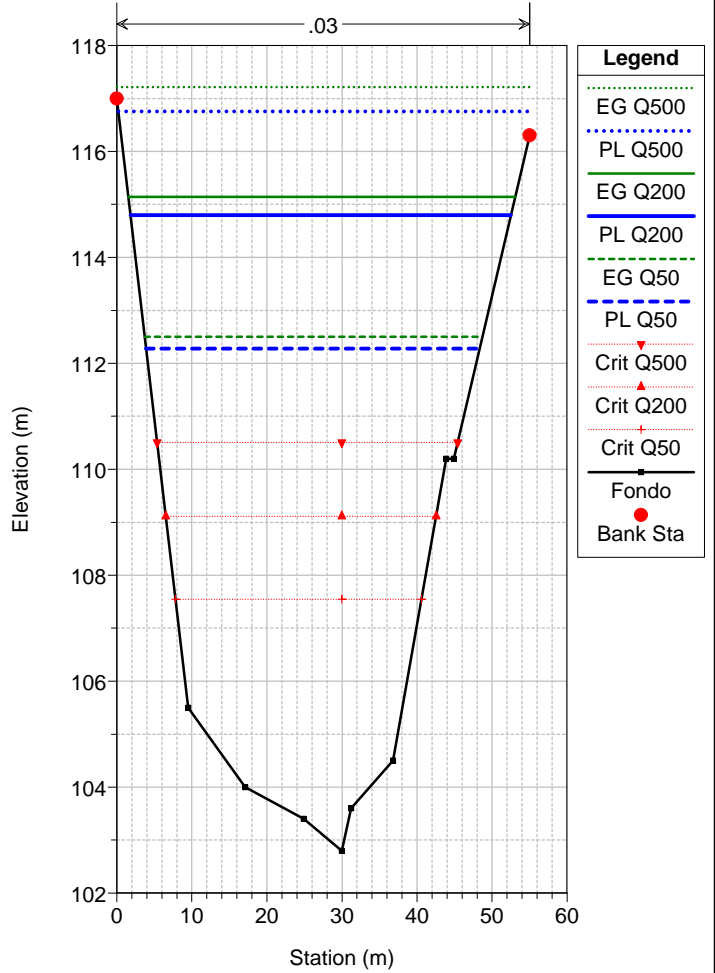
Torrente Lavagna Plan: 01_sett14
LAV-126

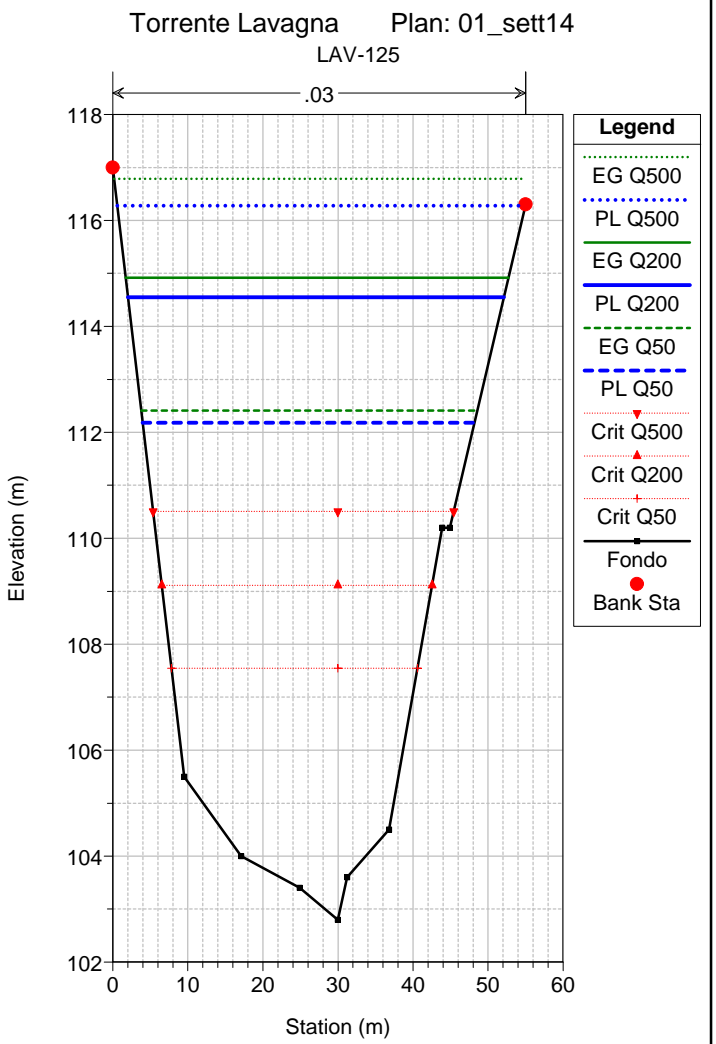
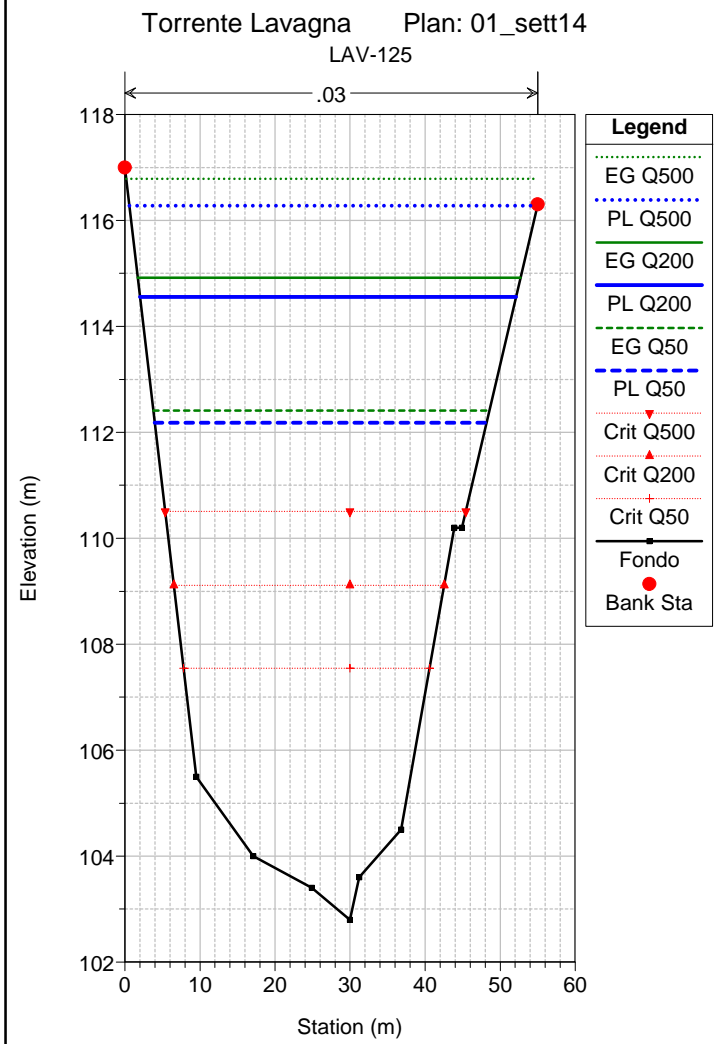
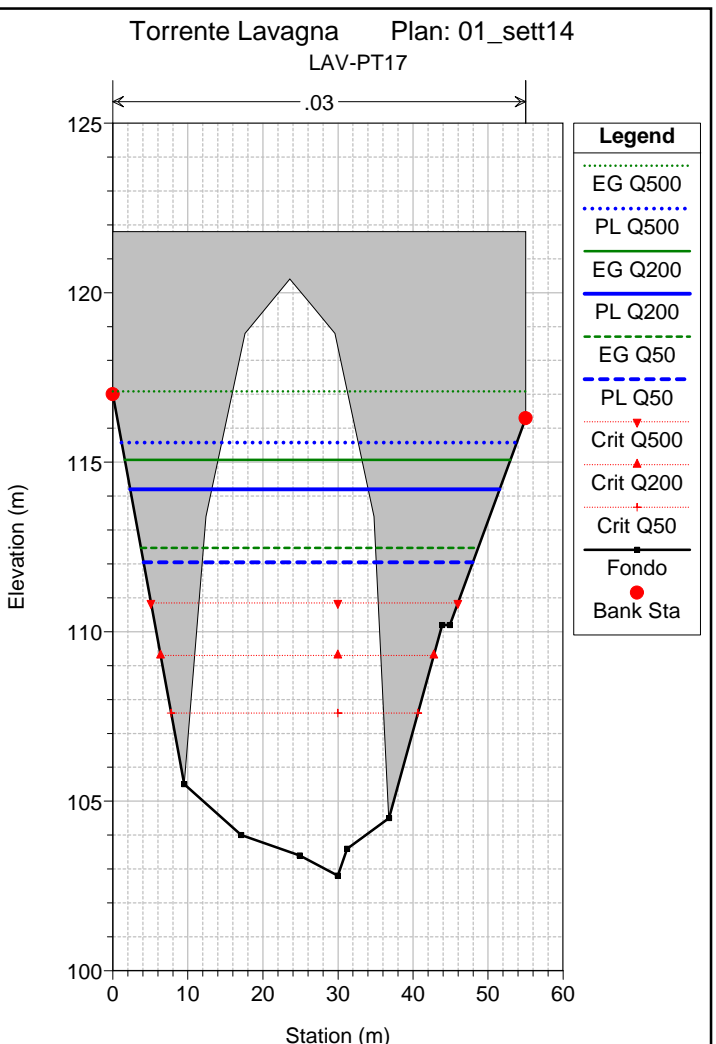
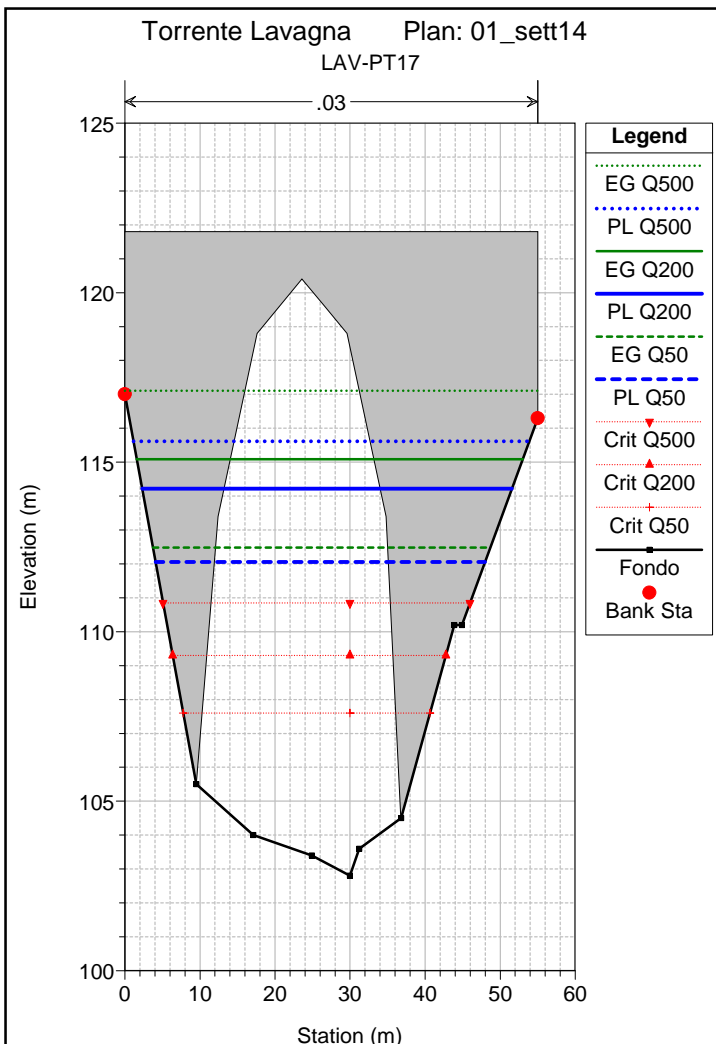


Torrente Lavagna Plan: 01_sett14
LAV-125

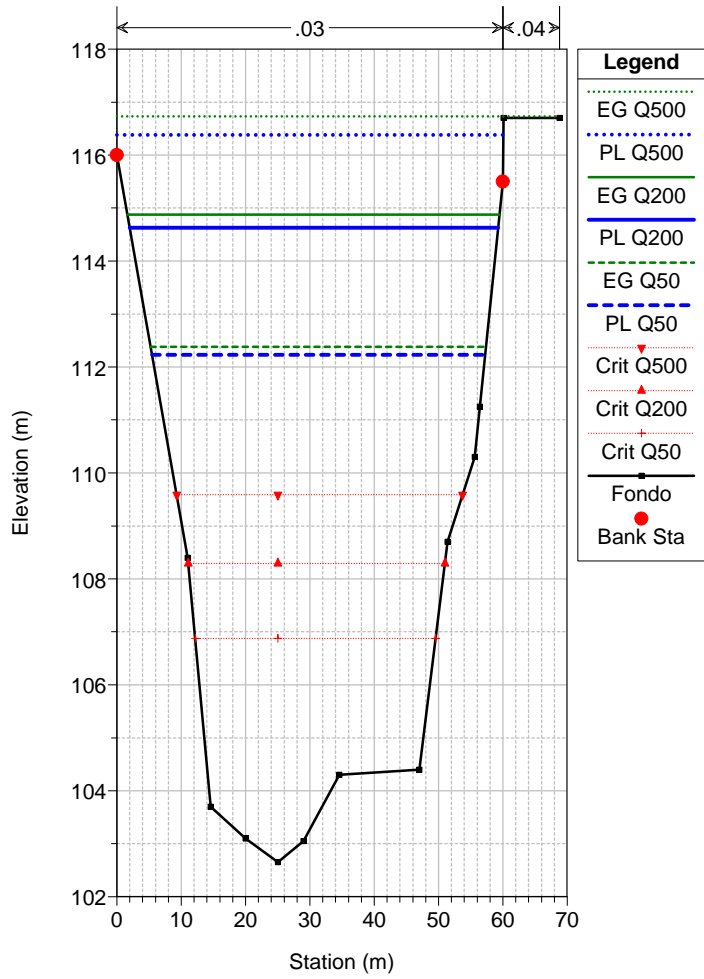


Torrente Lavagna Plan: 01_sett14
LAV-125

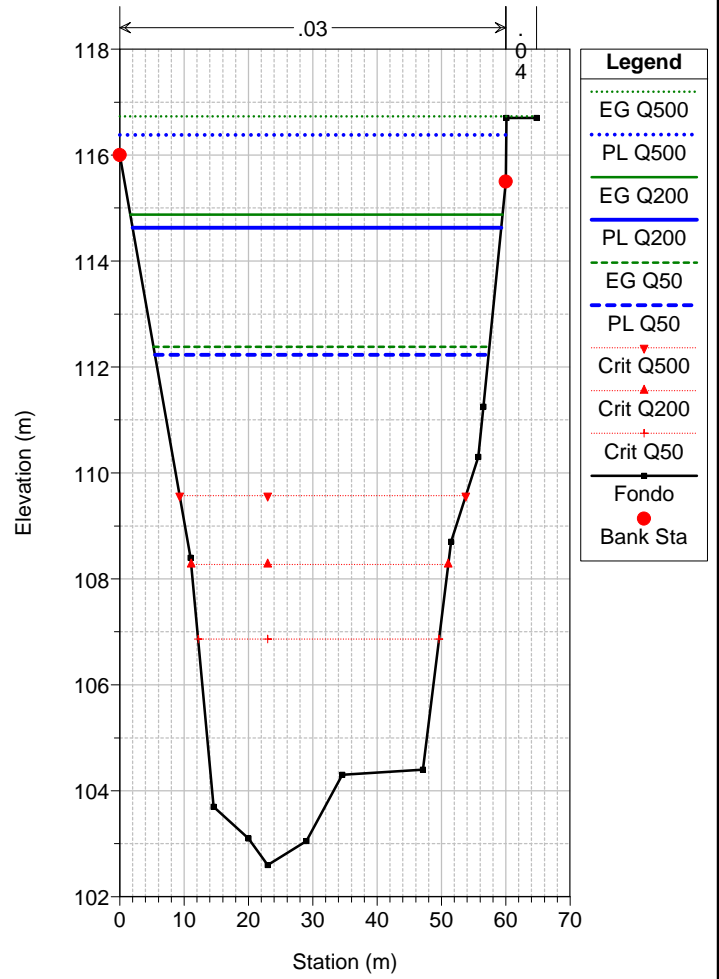




Torrente Lavagna Plan: 01_sett14
LAV-124



Torrente Lavagna Plan: 01_sett14
LAV-123



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)	
Neirone-Litegli	130.5	LAV-176	Q50	582.00	143.51	148.85	149.10	0.25	149.15	0.30	147.23	149.47	0.001767	3.51	165.97	36.38	0.52
Neirone-Litegli	130.5	LAV-176	Q200	1027.00	143.51	150.81	149.10	-1.71	149.15	-1.66	148.61	151.76	0.001877	4.32	237.51	36.46	0.54
Neirone-Litegli	130.5	LAV-176	Q500	1491.00	143.51	152.79	149.10	-3.70	149.15	-3.65	149.84	153.97	0.001822	4.81	309.87	36.46	0.53
Neirone-Litegli	130.3	LAV-175	Q50	582.00	143.49	148.79	149.08	0.29	149.13	0.34	147.21	149.43	0.001814	3.54	164.54	36.37	0.53
Neirone-Litegli	130.3	LAV-175	Q200	1027.00	143.49	150.75	149.08	-1.67	149.13	-1.62	148.60	151.71	0.001916	4.35	235.87	36.46	0.55
Neirone-Litegli	130.3	LAV-175	Q500	1491.00	143.49	152.73	149.08	-3.65	149.13	-3.60	149.83	153.93	0.001848	4.84	308.33	36.46	0.53
Neirone-Litegli	130.2	LAV-175	Q50	582.00	143.49	148.79	149.08	0.29	149.13	0.34	147.21	149.42	0.001820	3.54	164.35	36.37	0.53
Neirone-Litegli	130.2	LAV-175	Q200	1027.00	143.49	150.74	149.08	-1.66	149.13	-1.61	148.60	151.71	0.001921	4.36	235.66	36.46	0.55
Neirone-Litegli	130.2	LAV-175	Q500	1491.00	143.49	152.73	149.08	-3.65	149.13	-3.60	149.83	153.92	0.001851	4.84	308.13	36.46	0.53
Neirone-Litegli	130.15	LAV-PT24		Bridge													
Neirone-Litegli	130.1	LAV-175	Q50	582.00	143.49	146.40	149.08	2.68	149.13	2.73	147.21	149.20	0.018163	7.41	78.49	35.71	1.60
Neirone-Litegli	130.1	LAV-175	Q200	1027.00	143.49	149.14	149.08	-0.06	149.13	-0.01	148.60	150.85	0.004508	5.79	177.23	36.46	0.84
Neirone-Litegli	130.1	LAV-175	Q500	1491.00	143.49	150.46	149.08	-1.38	149.13	-1.33	149.83	152.69	0.004622	6.62	225.37	36.46	0.85
Neirone-Litegli	130.0	LAV-175	Q50	582.00	143.49	146.63	149.08	2.45	149.13	2.50	147.21	148.93	0.013358	6.73	86.49	35.77	1.38
Neirone-Litegli	130.0	LAV-175	Q200	1027.00	143.49	148.60	149.08	0.48	149.13	0.53	148.60	150.76	0.006458	6.52	157.46	36.32	1.00
Neirone-Litegli	130.0	LAV-175	Q500	1491.00	143.49	149.83	149.08	-0.75	149.13	-0.70	149.83	152.59	0.006376	7.37	202.33	36.46	1.00
Neirone-Litegli	125	LAV-174.5	Q50	600.00	141.87	144.58	151.64	7.06	152.35	7.77	144.98	146.62	0.011537	6.32	94.90	35.09	1.23
Neirone-Litegli	125	LAV-174.5	Q200	1057.00	141.87	145.54	151.64	6.10	152.35	6.81	146.40	148.99	0.013841	8.22	128.57	35.09	1.37
Neirone-Litegli	125	LAV-174.5	Q500	1534.00	141.87	146.71	151.64	4.93	152.35	5.64	147.67	150.88	0.012479	9.05	169.43	35.09	1.32
Neirone-Litegli	121.1	LAV-174	Q50	600.00	141.03	144.14	150.80	6.66	151.51	7.37	144.14	145.69	0.007493	5.51	108.86	35.09	1.00
Neirone-Litegli	121.1	LAV-174	Q200	1057.00	141.03	145.56	150.80	5.24	151.51	5.95	145.56	147.82	0.007232	6.66	158.72	35.09	1.00
Neirone-Litegli	121.1	LAV-174	Q500	1534.00	141.03	146.84	150.80	3.96	151.51	4.67	146.84	149.73	0.007163	7.54	203.58	35.09	1.00
Neirone-Litegli	121	LAV-173	Q50	600.00	140.16	142.31	150.80	8.49	151.51	9.20	143.25	145.52	0.023765	7.94	75.61	35.09	1.73
Neirone-Litegli	121	LAV-173	Q200	1057.00	140.16	143.51	150.80	7.29	151.51	8.00	144.68	147.63	0.018376	9.00	117.45	35.09	1.57
Neirone-Litegli	121	LAV-173	Q500	1534.00	140.16	144.61	150.80	6.19	151.51	6.90	145.95	149.53	0.016073	9.83	156.05	35.09	1.49
Neirone-Litegli	120.3	LAV-172	Q50	600.00	136.39	141.80	150.80	9.00	151.51	9.71	141.07	142.98	0.003125	4.82	124.49	32.13	0.75
Neirone-Litegli	120.3	LAV-172	Q200	1057.00	136.39	143.74	150.80	7.06	151.51	7.77	142.66	145.46	0.002735	5.81	181.98	33.82	0.75
Neirone-Litegli	120.3	LAV-172	Q500	1534.00	136.39	145.50	150.80	5.30	151.51	6.01	144.09	147.69	0.002493	6.56	233.96	35.11	0.74
Neirone-Litegli	120.2	LAV-172	Q50	600.00	136.39	141.87	150.80	8.93	151.51	9.64	141.07	142.95	0.003574	4.59	130.58	32.20	0.73
Neirone-Litegli	120.2	LAV-172	Q200	1057.00	136.39	143.93	150.80	6.87	151.51	7.58	142.63	145.37	0.003193	5.32	198.77	33.98	0.70
Neirone-Litegli	120.2	LAV-172	Q500	1534.00	136.39	145.83	150.80	4.97	151.51	5.68	144.01	147.54	0.002936	5.80	264.53	35.32	0.68
Neirone-Litegli	120.15	LAV-PT23		Bridge													
Neirone-Litegli	120.1	LAV-172	Q50	600.00	136.39	141.53	150.80	9.27	151.51	9.98	141.07	142.81	0.004661	5.02	119.58	31.90	0.83
Neirone-Litegli	120.1	LAV-172	Q200	1057.00	136.39	143.37	150.80	7.43	151.51	8.14	142.63	145.13	0.004286	5.88	179.75	33.49	0.81
Neirone-Litegli	120.1	LAV-172	Q500	1534.00	136.39	144.94	150.80	5.86	151.51	6.57	144.01	147.14	0.004207	6.57	233.52	34.74	0.81
Neirone-Litegli	120	LAV-172	Q50	600.00	136.39	141.44	150.80	9.36	151.51	10.07	141.07	142.79	0.006843	5.14	116.63	31.82	0.86
Neirone-Litegli	120	LAV-172	Q200	1057.00	136.39	143.30	150.80	7.50	151.51	8.21	142.63	145.11	0.006062	5.96	177.43	33.43	0.83
Neirone-Litegli	120	LAV-172	Q500	1534.00	136.39	144.88	150.80	5.92	151.51	6.63	144.01	147.12	0.005895	6.63	231.21	34.70	0.82
Neirone-Litegli	119.6	LAV-171	Q50	600.00	134.04	141.47	144.99	3.52	140.94	-0.53	139.21	141.98	0.001932	3.16	190.13	39.69	0.46
Neirone-Litegli	119.6	LAV-171	Q200	1057.00	134.04	143.48	144.99	1.51	140.94	-2.54	140.83	144.26	0.002079	3.92	269.83	39.69	0.48
Neirone-Litegli	119.6	LAV-171	Q500	1534.00	134.04	145.16	144.99	-0.17	140.94	-4.22	142.02	146.22	0.002279	4.56	336.60	39.69	0.50

Reach	River Sta	Profile	Q Total (m ³ /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 (m ²)	Top Width (m)	Froude # Chl
Neirone-Littegli	119.5 LAV-170	Q50	600.00	134.70	140.82	145.00	4.18	140.94	0.12	138.91	141.61	0.002818	3.95	152.00	29.40	0.55
Neirone-Littegli	119.5 LAV-170	Q200	1057.00	134.70	142.41	145.00	2.59	140.94	-1.47	140.73	143.83	0.003987	5.29	199.92	30.74	0.66
Neirone-Littegli	119.5 LAV-170	Q500	1534.00	134.70	143.48	145.00	1.52	140.94	-2.54	142.23	145.68	0.005432	6.58	233.26	31.55	0.77
Neirone-Littegli	119.4 LAV-169	Q50	600.00	134.76	140.59	145.00	4.41	142.62	2.03	138.76	141.24	0.002354	3.57	168.16	36.93	0.53
Neirone-Littegli	119.4 LAV-169	Q200	1057.00	134.76	142.24	145.00	2.76	142.62	0.38	140.39	143.29	0.002937	4.54	232.79	41.50	0.61
Neirone-Littegli	119.4 LAV-169	Q500	1534.00	134.76	143.42	145.00	1.58	142.62	-0.80	141.75	144.91	0.003540	5.41	283.52	43.78	0.68
Neirone-Littegli	119 LAV-168	Q50	600.00	134.97	140.07	145.18	5.11	140.10	0.03	138.67	140.74	0.002724	3.61	165.99	41.22	0.57
Neirone-Littegli	119 LAV-168	Q200	1057.00	134.97	142.00	145.18	3.18	140.10	-1.90	140.11	142.69	0.002101	3.83	324.85	106.56	0.53
Neirone-Littegli	119 LAV-168	Q500	1534.00	134.97	143.76	145.18	1.42	140.10	-3.65	141.75	144.30	0.001329	3.59	519.64	111.62	0.43
Neirone-Littegli	118 LAV-167	Q50	600.00	134.17	139.72	144.26	4.54	139.25	-0.47	138.60	140.61	0.003585	4.19	146.12	48.17	0.66
Neirone-Littegli	118 LAV-167	Q200	1057.00	134.17	141.71	144.26	2.55	139.25	-2.46	140.57	142.60	0.002547	4.40	289.60	92.44	0.58
Neirone-Littegli	118 LAV-167	Q500	1534.00	134.17	143.59	144.26	0.67	139.25	-4.34	141.82	144.25	0.001565	4.02	479.37	102.70	0.46
Neirone-Littegli	117 LAV-166	Q50	600.00	132.45	139.43	143.69	4.26	139.34	-0.09	138.20	140.43	0.004030	4.42	135.80	33.87	0.66
Neirone-Littegli	117 LAV-166	Q200	1057.00	132.45	141.22	143.69	2.47	139.34	-1.88	140.44	142.48	0.003763	5.16	239.37	74.50	0.65
Neirone-Littegli	117 LAV-166	Q500	1534.00	132.45	143.23	143.69	0.46	139.34	-3.89	141.86	144.18	0.002368	4.75	389.02	74.79	0.53
Neirone-Littegli	116 LAV-165	Q50	600.00	132.42	139.46	143.69	4.23	139.14	-0.32	137.71	140.36	0.003439	4.19	145.16	41.23	0.59
Neirone-Littegli	116 LAV-165	Q200	1057.00	132.42	141.25	143.69	2.44	139.14	-2.11	140.16	142.41	0.003519	4.99	247.08	68.14	0.60
Neirone-Littegli	116 LAV-165	Q500	1534.00	132.42	143.16	143.69	0.53	139.14	-4.02	141.68	144.15	0.002543	4.82	377.48	68.14	0.52
Neirone-Littegli	115 LAV-164	Q50	600.00	132.35	138.48	143.23	4.75	139.05	0.57	138.48	140.20	0.010861	5.81	103.34	30.09	1.00
Neirone-Littegli	115 LAV-164	Q200	1057.00	132.35	140.43	143.23	2.80	139.05	-1.38	140.43	142.27	0.007294	6.16	186.87	52.25	0.86
Neirone-Littegli	115 LAV-164	Q500	1534.00	132.35	142.98	143.23	0.25	139.05	-3.93	142.00	144.10	0.003172	5.08	359.78	75.86	0.58
Neirone-Littegli	114 LAV-163	Q50	600.00	132.34	138.87	142.78	3.91	141.44	2.57	137.10	139.62	0.002636	3.84	156.18	30.27	0.54
Neirone-Littegli	114 LAV-163	Q200	1057.00	132.34	140.54	142.78	2.24	141.44	0.90	138.70	141.87	0.003588	5.10	207.16	30.63	0.63
Neirone-Littegli	114 LAV-163	Q500	1534.00	132.34	141.48	142.78	1.30	141.44	-0.04	140.12	143.63	0.005214	6.50	235.84	30.82	0.75
Neirone-Littegli	113.3 LAV-162	Q50	600.00	132.28	138.85	138.94	0.09	138.10	-0.75	136.37	139.56	0.002301	3.75	161.80	31.40	0.48
Neirone-Littegli	113.3 LAV-162	Q200	1057.00	132.28	140.70	138.94	-1.76	138.10	-2.60	138.16	141.73	0.002757	4.62	253.51	56.32	0.55
Neirone-Littegli	113.3 LAV-162	Q500	1534.00	132.28	142.00	138.94	-3.06	138.10	-3.90	140.44	143.32	0.002980	5.36	334.48	69.73	0.59
Neirone-Littegli	113.2 LAV-162	Q50	600.00	132.28	138.84	138.94	0.10	133.21	-5.63	136.38	139.56	0.001932	3.78	161.37	31.20	0.48
Neirone-Littegli	113.2 LAV-162	Q200	1057.00	132.28	140.63	138.94	-1.69	133.21	-7.42	138.17	141.72	0.002501	4.75	249.28	55.85	0.57
Neirone-Littegli	113.2 LAV-162	Q500	1534.00	132.28	141.83	138.94	-2.89	133.21	-8.62	140.43	143.30	0.002849	5.62	322.90	67.86	0.62
Neirone-Littegli	113.15 LAV-PT22		Bridge													
Neirone-Littegli	113.1 LAV-162	Q50	600.00	132.28	138.24	138.85	0.61	133.21	-5.03	136.38	139.13	0.001926	4.18	144.37	26.37	0.56
Neirone-Littegli	113.1 LAV-162	Q200	1057.00	132.28	139.81	138.85	-0.96	133.21	-6.60	138.17	141.39	0.002621	5.65	205.56	50.78	0.67
Neirone-Littegli	113.1 LAV-162	Q500	1534.00	132.28	141.05	138.85	-2.20	133.21	-7.84	140.40	143.16	0.002960	6.66	273.26	59.16	0.73
Neirone-Littegli	113.0 LAV-162	Q50	600.00	132.28	138.24	138.85	0.61	138.10	-0.14	136.37	139.12	0.002329	4.16	144.25	26.33	0.56
Neirone-Littegli	113.0 LAV-162	Q200	1057.00	132.28	139.83	138.85	-0.98	138.10	-1.73	138.17	141.37	0.003083	5.57	206.56	50.90	0.66
Neirone-Littegli	113.0 LAV-162	Q500	1534.00	132.28	141.14	138.85	-2.29	138.10	-3.04	140.43	143.10	0.003314	6.45	278.71	60.18	0.70
Neirone-Littegli	112 LAV-161	Q50	600.00	132.27	138.46	140.05	1.59	135.84	-2.62	135.92	139.00	0.001254	3.26	184.30	31.85	0.43
Neirone-Littegli	112 LAV-161	Q200	1057.00	132.27	140.19	140.05	-0.14	135.84	-4.35	137.48	141.18	0.001801	4.41	240.36	35.66	0.52
Neirone-Littegli	112 LAV-161	Q500	1534.00	132.27	141.42	140.05	-1.37	135.84	-5.58	138.87	142.94	0.002342	5.46	284.35	35.79	0.59
Neirone-Littegli	111 LAV-160	Q50	600.00	132.24	138.55	141.35	2.80	135.87	-2.68	135.83	138.94	0.000894	2.88	231.35	50.35	0.38
Neirone-Littegli	111 LAV-160	Q200	1057.00	132.24	140.43	141.35	0.92	135.87	-4.56	137.54	141.05	0.001045	3.64	326.74	50.71	0.42

HEC-RAS Plan: 01_sett14 River: Lavagna Reach: Neirone-Littegli (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
				(m ³ /s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m ²)	(m)	
Neirone-Littegli	111	LAV-160	Q500	1534.00	132.24	141.85	141.35	-0.50	135.87	-5.98	138.73	142.71	0.001240	4.34	398.97	50.88	0.46
Neirone-Littegli	110	LAV-159	Q50	600.00	132.21	138.53	141.47	2.94	140.64	2.11	135.84	138.91	0.001002	2.71	221.60	49.13	0.41
Neirone-Littegli	110	LAV-159	Q200	1057.00	132.21	140.44	141.47	1.03	140.64	0.20	137.35	141.00	0.001053	3.31	318.99	52.78	0.43
Neirone-Littegli	110	LAV-159	Q500	1534.00	132.21	141.91	141.47	-0.44	140.64	-1.27	138.66	142.65	0.001105	3.83	415.25	78.52	0.45
Neirone-Littegli	109	LAV-158	Q50	600.00	132.64	137.18	142.30	5.12	138.11	0.93	137.18	138.77	0.006493	5.58	107.58	34.03	1.00
Neirone-Littegli	109	LAV-158	Q200	1057.00	132.64	138.75	142.30	3.55	138.11	-0.64	138.75	140.83	0.005824	6.39	166.31	42.20	0.99
Neirone-Littegli	109	LAV-158	Q500	1534.00	132.64	140.21	142.30	2.09	138.11	-2.10	140.21	142.48	0.004812	6.72	241.05	63.33	0.93
Neirone-Littegli	108	LAV-157	Q50	600.00	132.36	135.23	142.79	7.56	137.84	2.61	136.08	138.03	0.017452	7.42	80.89	35.73	1.57
Neirone-Littegli	108	LAV-157	Q200	1057.00	132.36	136.34	142.79	6.45	137.84	1.50	137.50	140.11	0.015935	8.61	122.82	40.03	1.57
Neirone-Littegli	108	LAV-157	Q500	1534.00	132.36	137.32	142.79	5.47	137.84	0.52	138.73	141.77	0.014618	9.35	164.07	43.85	1.54
Neirone-Littegli	107.1	LAV-156	Q50	600.00	131.74	134.13	141.58	7.45	137.21	3.08	135.16	137.45	0.024831	8.08	74.26	37.88	1.84
Neirone-Littegli	107.1	LAV-156	Q200	1057.00	131.74	135.10	141.58	6.48	137.21	2.11	136.50	139.57	0.022030	9.37	112.84	41.70	1.82
Neirone-Littegli	107.1	LAV-156	Q500	1534.00	131.74	135.96	141.58	5.62	137.21	1.25	137.66	141.26	0.019960	10.19	150.47	45.11	1.78
Neirone-Littegli	107	LAV-155	Q50	600.00	129.70	131.76	137.00	5.24	137.50	5.74	133.28	137.23	0.048012	10.37	57.88	30.32	2.40
Neirone-Littegli	107	LAV-155	Q200	1057.00	129.70	132.92	137.00	4.08	137.50	4.58	134.83	139.37	0.033378	11.24	94.00	31.36	2.07
Neirone-Littegli	107	LAV-155	Q500	1534.00	129.70	134.09	137.00	2.91	137.50	3.41	136.24	141.09	0.025414	11.72	130.87	32.15	1.85
Neirone-Littegli	106	LAV-154	Q50	600.00	129.10	131.52	136.61	5.09	135.60	4.08	132.68	135.38	0.029217	8.70	68.98	34.11	1.95
Neirone-Littegli	106	LAV-154	Q200	1057.00	129.10	132.46	136.61	4.15	135.60	3.14	134.13	137.98	0.027679	10.41	101.51	35.21	1.96
Neirone-Littegli	106	LAV-154	Q500	1534.00	129.10	133.36	136.61	3.25	135.60	2.24	135.41	140.08	0.024934	11.48	133.60	36.02	1.90
Neirone-Littegli	105	LAV-153	Q50	600.00	128.51	131.32	136.43	5.11	136.82	5.50	132.23	134.43	0.019189	7.82	76.68	31.41	1.60
Neirone-Littegli	105	LAV-153	Q200	1057.00	128.51	132.39	136.43	4.04	136.82	4.43	133.75	136.99	0.019869	9.50	111.31	32.74	1.64
Neirone-Littegli	105	LAV-153	Q500	1534.00	128.51	133.42	136.43	3.01	136.82	3.41	135.13	139.11	0.018569	10.57	145.10	33.26	1.62
Neirone-Littegli	104	LAV-152	Q50	600.00	127.76	130.20	136.17	5.97	136.13	5.93	131.22	133.51	0.021545	8.07	74.35	32.78	1.71
Neirone-Littegli	104	LAV-152	Q200	1057.00	127.76	131.21	136.17	4.96	136.13	4.92	132.65	136.00	0.022319	9.70	108.99	35.89	1.78
Neirone-Littegli	104	LAV-152	Q500	1534.00	127.76	132.07	136.17	4.10	136.13	4.06	133.91	138.15	0.022477	10.92	140.46	37.13	1.79
Neirone-Littegli	103	LAV-151	Q50	600.00	126.71	129.14	135.99	6.85	133.60	4.46	130.11	132.38	0.021101	7.96	75.33	33.17	1.69
Neirone-Littegli	103	LAV-151	Q200	1057.00	126.71	134.09	135.99	1.90	133.60	-0.49	131.63	134.92	0.001671	4.03	262.18	41.72	0.51
Neirone-Littegli	103	LAV-151	Q500	1534.00	126.71	136.04	135.99	-0.05	133.60	-2.44	132.88	137.04	0.001590	4.43	346.23	44.50	0.51
Neirone-Littegli	102	LAV-150	Q50	600.00	126.00	130.77	134.58	3.81	136.38	5.61	129.98	131.79	0.003576	4.48	133.85	34.32	0.72
Neirone-Littegli	102	LAV-150	Q200	1057.00	126.00	133.88	134.58	0.70	136.38	2.50	131.48	134.81	0.001868	4.26	248.31	40.48	0.55
Neirone-Littegli	102	LAV-150	Q500	1534.00	126.00	135.85	134.58	-1.28	136.38	0.53	132.86	136.94	0.001719	4.62	331.97	43.54	0.53
Neirone-Littegli	101	LAV-149	Q50	600.00	125.08	130.95	134.69	3.74	135.94	4.99	129.20	131.59	0.001870	3.53	170.04	37.55	0.53
Neirone-Littegli	101	LAV-149	Q200	1057.00	125.08	134.04	134.69	0.65	135.94	1.90	130.72	134.67	0.001180	3.53	299.76	46.66	0.44
Neirone-Littegli	101	LAV-149	Q500	1534.00	125.08	136.05	134.69	-1.36	135.94	-0.11	132.08	136.80	0.001060	3.84	405.39	55.50	0.43
Neirone-Littegli	100	LAV-148	Q50	600.00	124.40	130.79	134.33	3.54	135.83	5.04	128.94	131.53	0.002050	3.82	156.91	31.27	0.54
Neirone-Littegli	100	LAV-148	Q200	1057.00	124.40	133.77	134.33	0.56	135.83	2.06	130.65	134.62	0.001554	4.08	259.37	37.44	0.49
Neirone-Littegli	100	LAV-148	Q500	1534.00	124.40	135.72	134.33	-1.39	135.83	0.11	132.15	136.74	0.001485	4.51	356.05	54.90	0.50
Neirone-Littegli	99.3	LAV-147	Q50	600.00	123.36	130.59	134.16	3.57	135.16	4.57	128.90	131.44	0.002637	4.09	146.85	29.30	0.58
Neirone-Littegli	99.3	LAV-147	Q200	1057.00	123.36	133.46	134.16	0.70	135.16	1.70	130.69	134.49	0.002113	4.50	234.74	31.94	0.53
Neirone-Littegli	99.3	LAV-147	Q500	1534.00	123.36	135.40	134.16	-1.24	135.16	-0.24	132.19	136.61	0.003712	4.88	314.32	45.00	0.59
Neirone-Littegli	99.2	LAV-147	Q50	600.00	123.36	130.58	134.16	3.58	135.16	4.58	128.90	131.44	0.002654	4.09	146.55	29.29	0.58
Neirone-Littegli	99.2	LAV-147	Q200	1057.00	123.36	133.45	134.16	0.71	135.16	1.71	130.69	134.49	0.002119	4.51	234.50	31.93	0.53

Reach	River Sta		Profile	Q Total (m ³ /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 (m ²)	Top Width (m)	Froude # Chl
Neirone-Littegli	99.2	LAV-147	Q500	1534.00	123.36	135.39	134.16	-1.22	135.16	-0.23	132.19	136.60	0.003737	4.89	313.64	45.00	0.59
Neirone-Littegli	99.15	LAV-PT21		Bridge													
Neirone-Littegli	99.1	LAV-147	Q50	600.00	123.36	129.73	134.16	4.43	135.16	5.43	128.90	130.96	0.004342	4.91	122.18	27.53	0.74
Neirone-Littegli	99.1	LAV-147	Q200	1057.00	123.36	131.66	134.16	2.50	135.16	3.50	130.69	133.44	0.004614	5.91	178.72	30.29	0.78
Neirone-Littegli	99.1	LAV-147	Q500	1534.00	123.36	133.22	134.16	0.94	135.16	1.94	132.19	135.55	0.004881	6.75	227.19	31.72	0.81
Neirone-Littegli	99	LAV-147	Q50	600.00	123.36	129.61	134.16	4.55	135.16	5.55	128.90	130.91	0.004682	5.05	118.73	27.41	0.78
Neirone-Littegli	99	LAV-147	Q200	1057.00	123.36	131.50	134.16	2.66	135.16	3.66	130.69	133.38	0.004994	6.08	173.91	30.14	0.81
Neirone-Littegli	99	LAV-147	Q500	1534.00	123.36	133.03	134.16	1.13	135.16	2.13	132.19	135.48	0.005281	6.94	221.00	31.54	0.84
Neirone-Littegli	98	LAV-146	Q50	600.00	123.17	129.88	134.77	4.89	133.17	3.29	128.39	130.71	0.002297	4.05	148.20	31.86	0.60
Neirone-Littegli	98	LAV-146	Q200	1057.00	123.17	131.92	134.77	2.85	133.17	1.25	130.06	133.12	0.002539	4.85	218.15	38.00	0.65
Neirone-Littegli	98	LAV-146	Q500	1534.00	123.17	133.66	134.77	1.11	133.17	-0.49	131.60	135.13	0.002432	5.37	285.92	39.60	0.64
Neirone-Littegli	97	LAV-145	Q50	600.00	123.68	129.69	134.40	4.71	132.84	3.15	128.48	130.67	0.002798	4.38	136.95	30.51	0.66
Neirone-Littegli	97	LAV-145	Q200	1057.00	123.68	131.69	134.40	2.71	132.84	1.15	130.21	133.06	0.003036	5.19	203.69	36.36	0.70
Neirone-Littegli	97	LAV-145	Q500	1534.00	123.68	133.38	134.40	1.02	132.84	-0.54	131.75	135.07	0.002937	5.76	266.22	37.50	0.69
Neirone-Littegli	96	LAV-144	Q50	600.00	123.81	129.20	134.30	5.10	132.74	3.54	128.70	130.57	0.004645	5.19	115.56	29.11	0.83
Neirone-Littegli	96	LAV-144	Q200	1057.00	123.81	130.98	134.30	3.32	132.74	1.76	130.43	132.95	0.004766	6.22	170.02	32.06	0.86
Neirone-Littegli	96	LAV-144	Q500	1534.00	123.81	132.21	134.30	2.09	132.74	0.53	131.91	134.91	0.005472	7.27	210.94	34.12	0.93
Neirone-Littegli	95	LAV-143	Q50	600.00	123.68	127.22	127.44	0.22	130.00	2.78	128.01	130.10	0.014665	7.52	79.76	28.47	1.43
Neirone-Littegli	95	LAV-143	Q200	1057.00	123.68	131.32	127.44	-3.88	130.00	-1.32	129.71	132.60	0.002361	5.07	218.90	39.24	0.63
Neirone-Littegli	95	LAV-143	Q500	1534.00	123.68	132.74	127.44	-5.30	130.00	-2.74	131.13	134.46	0.002619	5.94	276.66	41.50	0.67
Neirone-Littegli	94	LAV-142	Q50	600.00	123.05	129.05	135.80	6.75	135.60	6.55	127.93	129.76	0.002342	3.71	161.51	42.89	0.61
Neirone-Littegli	94	LAV-142	Q200	1057.00	123.05	131.64	135.80	4.16	135.60	3.96	129.25	132.38	0.001424	3.80	278.48	47.47	0.50
Neirone-Littegli	94	LAV-142	Q500	1534.00	123.05	133.22	135.80	2.58	135.60	2.38	130.42	134.17	0.001469	4.31	355.66	50.26	0.52
Neirone-Littegli	93.9	LAV-141.9	Q50	600.00	122.89	128.27	137.70	9.43	134.20	5.93	127.49	129.54	0.003876	4.99	120.20	27.45	0.76
Neirone-Littegli	93.9	LAV-141.9	Q200	1057.00	122.89	130.89	137.70	6.81	134.20	3.31	129.46	132.23	0.003212	5.13	206.24	39.25	0.71
Neirone-Littegli	93.9	LAV-141.9	Q500	1534.00	122.89	132.36	137.70	5.34	134.20	1.84	131.10	134.01	0.003388	5.69	269.46	45.65	0.75
Neirone-Littegli	93.8	LAV-141.6	Q50	600.00	122.78	128.00	134.40	6.40	132.10	4.10	127.38	129.38	0.004485	5.22	115.04	26.79	0.80
Neirone-Littegli	93.8	LAV-141.6	Q200	1057.00	122.78	130.68	134.40	3.72	132.10	1.42	129.37	132.11	0.003256	5.29	199.70	34.82	0.71
Neirone-Littegli	93.8	LAV-141.6	Q500	1534.00	122.78	131.87	134.40	2.53	132.10	0.23	130.83	133.85	0.004436	6.23	246.25	43.39	0.83
Neirone-Littegli	93.7	LAV-141.3	Q50	600.00	122.75	127.40	130.56	3.16	129.91	2.51	127.40	129.17	0.006572	5.90	101.77	28.66	1.00
Neirone-Littegli	93.7	LAV-141.3	Q200	1057.00	122.75	130.79	130.56	-0.23	129.91	-0.88	129.36	131.90	0.002630	4.66	227.07	46.92	0.66
Neirone-Littegli	93.7	LAV-141.3	Q500	1534.00	122.75	132.14	130.56	-1.58	129.91	-2.23	130.66	133.55	0.002550	5.28	298.39	57.98	0.67
Neirone-Littegli	93.6	LAV-141	Q50	600.00	122.52	126.55	129.15	2.60	135.84	9.29	127.01	128.71	0.010187	6.52	92.06	32.59	1.24
Neirone-Littegli	93.6	LAV-141	Q200	1057.00	122.52	130.87	129.15	-1.72	135.84	4.97	128.56	131.71	0.001494	4.08	267.02	53.82	0.52
Neirone-Littegli	93.6	LAV-141	Q500	1534.00	122.52	132.28	129.15	-3.13	135.84	3.56	129.88	133.34	0.001577	4.64	348.61	59.87	0.55
Neirone-Littegli	93.5	LAV-140	Q50	600.00	121.20	127.21	131.60	4.39	130.00	2.79	126.01	128.11	0.002598	4.19	143.06	33.33	0.65
Neirone-Littegli	93.5	LAV-140	Q200	1057.00	121.20	130.84	131.60	0.76	130.00	-0.84	127.63	131.58	0.001228	3.83	276.28	39.42	0.46
Neirone-Littegli	93.5	LAV-140	Q500	1534.00	121.20	132.10	131.60	-0.50	130.00	-2.10	129.03	133.22	0.001599	4.70	326.48	40.00	0.52
Neirone-Littegli	93.3	LAV-139	Q50	600.00	118.10	127.30	132.18	4.88	129.50	2.20	125.12	128.02	0.002464	3.76	159.56	31.82	0.54
Neirone-Littegli	93.3	LAV-139	Q200	1057.00	118.10	130.88	132.18	1.30	129.50	-1.38	127.07	131.54	0.001409	3.61	300.45	53.71	0.43
Neirone-Littegli	93.3	LAV-139	Q500	1534.00	118.10	132.22	132.18	-0.04	129.50	-2.72	128.64	133.13	0.001678	4.29	380.22	61.60	0.48

HEC-RAS Plan: 01_sett14 River: Lavagna Reach: Neirone-Litegli (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)	
Neirone-Litegli	93.2	LAV-139	Q50	600.00	118.10	127.35	129.50	2.15	129.50	2.15	125.07	127.99	0.002200	3.55	169.25	34.60	0.51
Neirone-Litegli	93.2	LAV-139	Q200	1057.00	118.10	130.93	129.50	-1.43	129.50	-1.43	126.96	131.51	0.001189	3.37	321.88	56.00	0.39
Neirone-Litegli	93.2	LAV-139	Q500	1534.00	118.10	132.29	129.50	-2.79	129.50	-2.79	128.46	133.10	0.001411	4.03	404.00	61.60	0.43
Neirone-Litegli	93.15	LAV-PT20	Bridge														
Neirone-Litegli	93.1	LAV-139	Q50	600.00	118.10	127.34	129.50	2.16	129.50	2.16	125.07	127.98	0.002216	3.55	168.79	34.55	0.51
Neirone-Litegli	93.1	LAV-139	Q200	1057.00	118.10	130.49	129.50	-0.99	129.50	-0.99	126.96	131.15	0.001456	3.60	297.83	51.64	0.43
Neirone-Litegli	93.1	LAV-139	Q500	1534.00	118.10	131.70	129.50	-2.20	129.50	-2.20	128.46	132.66	0.001801	4.38	367.32	61.60	0.49
Neirone-Litegli	93	LAV-139	Q50	600.00	118.10	127.22	132.18	4.96	129.50	2.28	125.12	127.96	0.002571	3.82	157.06	31.58	0.55
Neirone-Litegli	93	LAV-139	Q200	1057.00	118.10	130.35	132.18	1.83	129.50	-0.85	127.07	131.13	0.001779	3.90	273.81	47.91	0.48
Neirone-Litegli	93	LAV-139	Q500	1534.00	118.10	131.48	132.18	0.70	129.50	-1.98	128.64	132.63	0.002290	4.79	334.96	60.41	0.55
Neirone-Litegli	92.6	LAV-138	Q50	600.00	121.30	127.07	130.00	2.93	130.00	2.93	125.81	127.88	0.002586	3.99	150.52	38.77	0.65
Neirone-Litegli	92.6	LAV-138	Q200	1057.00	121.30	130.46	130.00	-0.46	130.00	-0.46	127.48	131.05	0.001131	3.39	311.50	54.00	0.45
Neirone-Litegli	92.6	LAV-138	Q500	1534.00	121.30	131.67	130.00	-1.67	130.00	-1.67	128.81	132.52	0.001334	4.07	376.68	54.00	0.49
Neirone-Litegli	92.5	LAV-137	Q50	600.00	120.85	125.66	135.00	9.34	125.00	-0.66	125.39	127.18	0.005252	5.47	111.42	34.41	0.88
Neirone-Litegli	92.5	LAV-137	Q200	1057.00	120.85	130.28	135.00	4.72	125.00	-5.28	127.28	130.82	0.000911	3.53	377.10	78.00	0.40
Neirone-Litegli	92.5	LAV-137	Q500	1534.00	120.85	131.55	135.00	3.45	125.00	-6.55	128.70	132.23	0.001044	4.06	476.07	78.54	0.43
Neirone-Litegli	92.1	LAV-136	Q50	600.00	121.04	125.09	130.00	4.91	125.00	-0.09	124.90	126.45	0.005432	5.16	116.20	36.26	0.92
Neirone-Litegli	92.1	LAV-136	Q200	1057.00	121.04	130.17	130.00	-0.17	125.00	-5.17	126.36	130.71	0.000742	3.32	339.18	51.00	0.38
Neirone-Litegli	92.1	LAV-136	Q500	1534.00	121.04	131.24	130.00	-1.24	125.00	-6.24	127.63	132.09	0.001029	4.18	393.61	51.00	0.45
Neirone-Litegli	92.0	LAV-135	Q50	600.00	117.97	125.79	130.00	4.21	125.00	-0.79	122.02	126.14	0.000886	2.61	230.22	38.38	0.33
Neirone-Litegli	92.0	LAV-135	Q200	1057.00	117.97	130.32	130.00	-0.32	125.00	-5.32	123.71	130.65	0.000469	2.55	434.63	51.00	0.25
Neirone-Litegli	92.0	LAV-135	Q500	1534.00	117.97	131.46	130.00	-1.46	125.00	-6.46	125.13	131.99	0.000700	3.29	492.71	51.00	0.31
Neirone-Litegli	91.3	LAV-134	Q50	600.00	113.70	125.42	126.10	0.68	126.10	0.68	122.81	126.01	0.002220	3.42	175.68	31.28	0.46
Neirone-Litegli	91.3	LAV-134	Q200	1057.00	113.70	130.12	126.10	-4.02	126.10	-4.02	124.60	130.58	0.000918	3.06	363.93	42.68	0.31
Neirone-Litegli	91.3	LAV-134	Q500	1534.00	113.70	131.12	126.10	-5.02	126.10	-5.02	126.13	131.89	0.001416	4.00	406.38	42.68	0.38
Neirone-Litegli	91.2	LAV-134	Q50	600.00	113.70	125.42	126.10	0.68	126.10	0.68	122.81	126.01	0.002223	3.42	175.59	31.27	0.46
Neirone-Litegli	91.2	LAV-134	Q200	1057.00	113.70	130.12	126.10	-4.02	126.10	-4.02	124.60	130.58	0.000918	3.06	363.89	42.68	0.31
Neirone-Litegli	91.2	LAV-134	Q500	1534.00	113.70	131.12	126.10	-5.02	126.10	-5.02	126.13	131.89	0.001417	4.00	406.30	42.68	0.38
Neirone-Litegli	91.15	LAV-PT19	Bridge														
Neirone-Litegli	91.1	LAV-134	Q50	600.00	113.70	121.38	126.10	4.72	126.10	4.72	122.81	125.64	0.033369	9.15	65.59	19.54	1.59
Neirone-Litegli	91.1	LAV-134	Q200	1057.00	113.70	125.19	126.10	0.91	126.10	0.91	124.60	127.19	0.007752	6.27	168.63	30.90	0.86
Neirone-Litegli	91.1	LAV-134	Q500	1534.00	113.70	126.85	126.10	-0.75	126.10	-0.75	126.13	129.27	0.007171	6.90	224.62	40.12	0.84
Neirone-Litegli	91.0	LAV-134	Q50	600.00	113.70	121.56	126.10	4.54	126.10	4.54	122.81	125.38	0.028642	8.66	69.29	20.05	1.49
Neirone-Litegli	91.0	LAV-134	Q200	1057.00	113.70	124.60	126.10	1.50	126.10	1.50	124.60	127.11	0.010776	7.02	150.52	29.90	1.00
Neirone-Litegli	91.0	LAV-134	Q500	1534.00	113.70	126.13	126.10	-0.03	126.10	-0.03	126.13	129.18	0.010237	7.74	198.25	32.70	1.00
Neirone-Litegli	90.5	LAV-133	Q50	600.00	113.16	119.83	125.00	5.17	125.00	5.17	117.77	120.40	0.002058	3.34	179.56	39.44	0.50
Neirone-Litegli	90.5	LAV-133	Q200	1057.00	113.16	122.31	125.00	2.69	125.00	2.69	119.40	123.01	0.001714	3.70	285.72	46.03	0.47
Neirone-Litegli	90.5	LAV-133	Q500	1534.00	113.16	124.36	125.00	0.64	125.00	0.64	120.72	125.17	0.001566	3.98	385.43	51.34	0.46
Neirone-Litegli	90.4	LAV-132	Q50	600.00	112.59	118.29	125.00	6.71	125.00	6.71	117.63	119.74	0.006044	5.34	112.36	25.09	0.81
Neirone-Litegli	90.4	LAV-132	Q200	1057.00	112.59	120.04	125.00	4.96	125.00	4.96	119.55	122.31	0.007129	6.67	158.42	27.52	0.89
Neirone-Litegli	90.4	LAV-132	Q500	1534.00	112.59	121.39	125.00	3.61	125.00	3.61	121.35	124.43	0.008610	7.73	198.46	32.03	0.99

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
Neirone-Littegli	90.3 LAV-131	Q50	600.00	111.50	115.62	125.50	9.88	125.50	9.88	114.77	116.48	0.003046	4.09	146.53	40.23	0.68
Neirone-Littegli	90.3 LAV-131	Q200	1057.00	111.50	117.35	125.50	8.15	125.50	8.15	116.13	118.55	0.002839	4.84	218.20	42.56	0.68
Neirone-Littegli	90.3 LAV-131	Q500	1534.00	111.50	118.86	125.50	6.64	125.50	6.64	117.32	120.35	0.002749	5.41	283.80	44.58	0.68
Neirone-Littegli	90.2 LAV-131	Q50	600.00	111.50	115.61	125.50	9.89	125.50	9.89	114.77	116.47	0.003069	4.10	146.18	40.22	0.69
Neirone-Littegli	90.2 LAV-131	Q200	1057.00	111.50	117.35	125.50	8.15	125.50	8.15	116.13	118.54	0.002853	4.85	217.84	42.54	0.68
Neirone-Littegli	90.2 LAV-131	Q500	1534.00	111.50	118.85	125.50	6.65	125.50	6.65	117.32	120.34	0.002760	5.41	283.41	44.57	0.69
Neirone-Littegli	90.15 LAV-PT18	Bridge														
Neirone-Littegli	90.1 LAV-131	Q50	600.00	111.50	114.30	125.50	11.20	125.50	11.20	114.77	116.36	0.011921	6.36	94.33	38.45	1.30
Neirone-Littegli	90.1 LAV-131	Q200	1057.00	111.50	115.43	125.50	10.07	125.50	10.07	116.13	118.38	0.011132	7.61	138.92	39.97	1.30
Neirone-Littegli	90.1 LAV-131	Q500	1534.00	111.50	116.45	125.50	9.05	125.50	9.05	117.32	120.14	0.010627	8.52	180.15	41.34	1.30
Neirone-Littegli	90.0 LAV-131	Q50	600.00	111.50	115.41	125.50	10.09	125.50	10.09	114.77	116.37	0.003666	4.35	137.94	39.94	0.75
Neirone-Littegli	90.0 LAV-131	Q200	1057.00	111.50	117.04	125.50	8.46	125.50	8.46	116.13	118.40	0.003420	5.16	205.00	42.14	0.75
Neirone-Littegli	90.0 LAV-131	Q500	1534.00	111.50	118.48	125.50	7.02	125.50	7.02	117.32	120.16	0.003287	5.74	267.04	44.07	0.74
Neirone-Littegli	89.2 LAV-130	Q50	600.00	108.00	112.99	115.00	2.01	120.00	7.01	113.02	114.76	0.006612	5.88	102.03	29.38	1.01
Neirone-Littegli	89.2 LAV-130	Q200	1057.00	108.00	115.01	115.00	-0.01	120.00	4.99	114.76	117.02	0.005229	6.29	168.17	36.25	0.93
Neirone-Littegli	89.2 LAV-130	Q500	1534.00	108.00	116.94	115.00	-1.94	120.00	3.06	116.13	118.99	0.003984	6.33	242.26	40.34	0.82
Neirone-Littegli	89.1 LAV-129	Q50	600.00	105.89	112.27	115.00	2.73	120.00	7.73	111.01	113.34	0.002985	4.58	131.06	28.19	0.68
Neirone-Littegli	89.1 LAV-129	Q200	1057.00	105.89	114.77	115.00	0.23	120.00	5.23	112.94	116.07	0.002606	5.06	209.00	34.26	0.65
Neirone-Littegli	89.1 LAV-129	Q500	1534.00	105.89	116.71	115.00	-1.71	120.00	3.29	114.52	118.25	0.002332	5.51	280.88	39.96	0.64
Neirone-Littegli	89 LAV-128	Q50	600.00	103.00	112.20	114.30	2.10	114.80	2.60	108.76	112.67	0.000998	3.04	197.66	33.88	0.40
Neirone-Littegli	89 LAV-128	Q200	1057.00	103.00	114.76	114.30	-0.46	114.80	0.04	110.74	115.42	0.001069	3.62	292.27	39.75	0.43
Neirone-Littegli	89 LAV-128	Q500	1534.00	103.00	116.77	114.30	-2.47	114.80	-1.97	112.32	117.63	0.001060	4.11	375.20	41.30	0.43
Neirone-Littegli	88 LAV-127	Q50	600.00	103.10	112.26	117.00	4.74	116.40	4.14	108.39	112.61	0.000679	2.61	229.82	37.92	0.34
Neirone-Littegli	88 LAV-127	Q200	1057.00	103.10	114.83	117.00	2.17	116.40	1.57	110.19	115.34	0.000746	3.16	334.75	43.63	0.36
Neirone-Littegli	88 LAV-127	Q500	1534.00	103.10	116.88	117.00	0.12	116.40	-0.48	111.63	117.53	0.000797	3.58	428.57	47.74	0.38
Neirone-Littegli	87 LAV-126	Q50	600.00	103.00	112.32	117.00	4.68	116.30	3.98	107.81	112.56	0.000423	2.14	279.99	45.18	0.27
Neirone-Littegli	87 LAV-126	Q200	1057.00	103.00	114.93	117.00	2.07	116.30	1.37	109.40	115.27	0.000468	2.60	407.26	52.43	0.30
Neirone-Littegli	87 LAV-126	Q500	1534.00	103.00	117.01	117.00	-0.01	116.30	-0.71	110.79	117.45	0.000495	2.94	521.80	57.00	0.31
Neirone-Littegli	86.3 LAV-125	Q50	600.00	102.80	112.19	117.00	4.81	116.30	4.11	107.59	112.54	0.000389	2.64	227.64	44.21	0.29
Neirone-Littegli	86.3 LAV-125	Q200	1057.00	102.80	114.58	117.00	2.42	116.30	1.72	109.25	115.24	0.000516	3.60	293.73	50.14	0.35
Neirone-Littegli	86.3 LAV-125	Q500	1534.00	102.80	116.37	117.00	0.63	116.30	-0.07	110.75	117.38	0.000647	4.47	343.24	54.48	0.40
Neirone-Littegli	86.2 LAV-125	Q50	600.00	102.80	112.28	117.00	4.72	116.30	4.02	107.55	112.50	0.000388	2.09	287.49	44.44	0.26
Neirone-Littegli	86.2 LAV-125	Q200	1057.00	102.80	114.80	117.00	2.20	116.30	1.50	109.11	115.14	0.000460	2.59	407.34	50.69	0.29
Neirone-Littegli	86.2 LAV-125	Q500	1534.00	102.80	116.76	117.00	0.24	116.30	-0.46	110.51	117.22	0.000516	3.00	511.28	54.80	0.31
Neirone-Littegli	86.15 LAV-PT17	Bridge														
Neirone-Littegli	86.1 LAV-125	Q50	600.00	102.80	112.18	117.00	4.82	116.30	4.12	107.55	112.41	0.000404	2.12	283.25	44.20	0.27
Neirone-Littegli	86.1 LAV-125	Q200	1057.00	102.80	114.55	117.00	2.45	116.30	1.75	109.11	114.92	0.000500	2.68	395.10	50.09	0.30
Neirone-Littegli	86.1 LAV-125	Q500	1534.00	102.80	116.28	117.00	0.72	116.30	0.02	110.51	116.79	0.000600	3.16	485.12	54.37	0.34
Neirone-Littegli	86.0 LAV-125	Q50	600.00	102.80	112.18	117.00	4.82	116.30	4.12	107.55	112.41	0.000405	2.12	283.18	44.20	0.27
Neirone-Littegli	86.0 LAV-125	Q200	1057.00	102.80	114.55	117.00	2.45	116.30	1.75	109.11	114.92	0.000500	2.68	394.99	50.08	0.30
Neirone-Littegli	86.0 LAV-125	Q500	1534.00	102.80	116.28	117.00	0.72	116.30	0.02	110.51	116.78	0.000601	3.16	484.97	54.36	0.34

HEC-RAS Plan: 01_sett14 River: Lavagna Reach: Neirone-Littegli (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)	
Neirone-Littegli	85	LAV-124	Q50	600.00	102.65	112.23	116.00	3.77	115.50	3.27	106.88	112.38	0.000247	1.72	348.58	51.78	0.21
Neirone-Littegli	85	LAV-124	Q200	1057.00	102.65	114.63	116.00	1.37	115.50	0.87	108.29	114.88	0.000310	2.20	479.38	57.28	0.24
Neirone-Littegli	85	LAV-124	Q500	1534.00	102.65	116.38	116.00	-0.38	115.50	-0.88	109.59	116.73	0.000368	2.63	582.74	60.07	0.27
Neirone-Littegli	84	LAV-123	Q50	600.00	102.60	112.23	116.00	3.77	115.50	3.27	106.87	112.38	0.000245	1.72	349.62	51.85	0.21
Neirone-Littegli	84	LAV-123	Q200	1057.00	102.60	114.63	116.00	1.37	115.50	0.87	108.27	114.88	0.000308	2.20	480.55	57.30	0.24
Neirone-Littegli	84	LAV-123	Q500	1534.00	102.60	116.38	116.00	-0.38	115.50	-0.88	109.57	116.73	0.000366	2.63	583.92	60.07	0.27

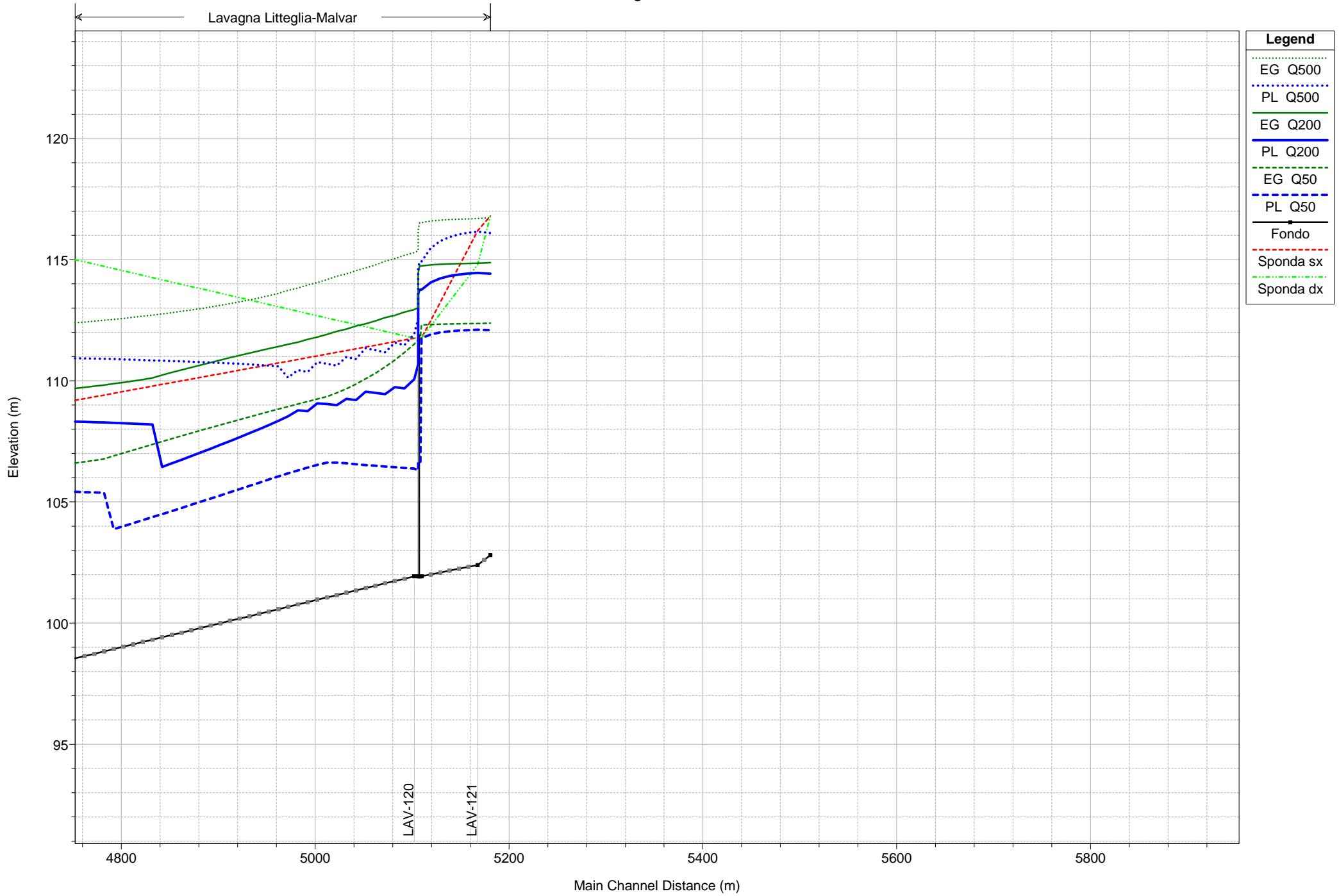
Piano di bacino torrente Lavagna

T. Lavagna

**tratto tra Litteglia e Malvaro – dalla sez. LAV122 alla
LAV74**

- **Profili idraulici**
- **Sezioni**
- **Tabelle dei risultati**

Lavagna Litteglia-Malvar

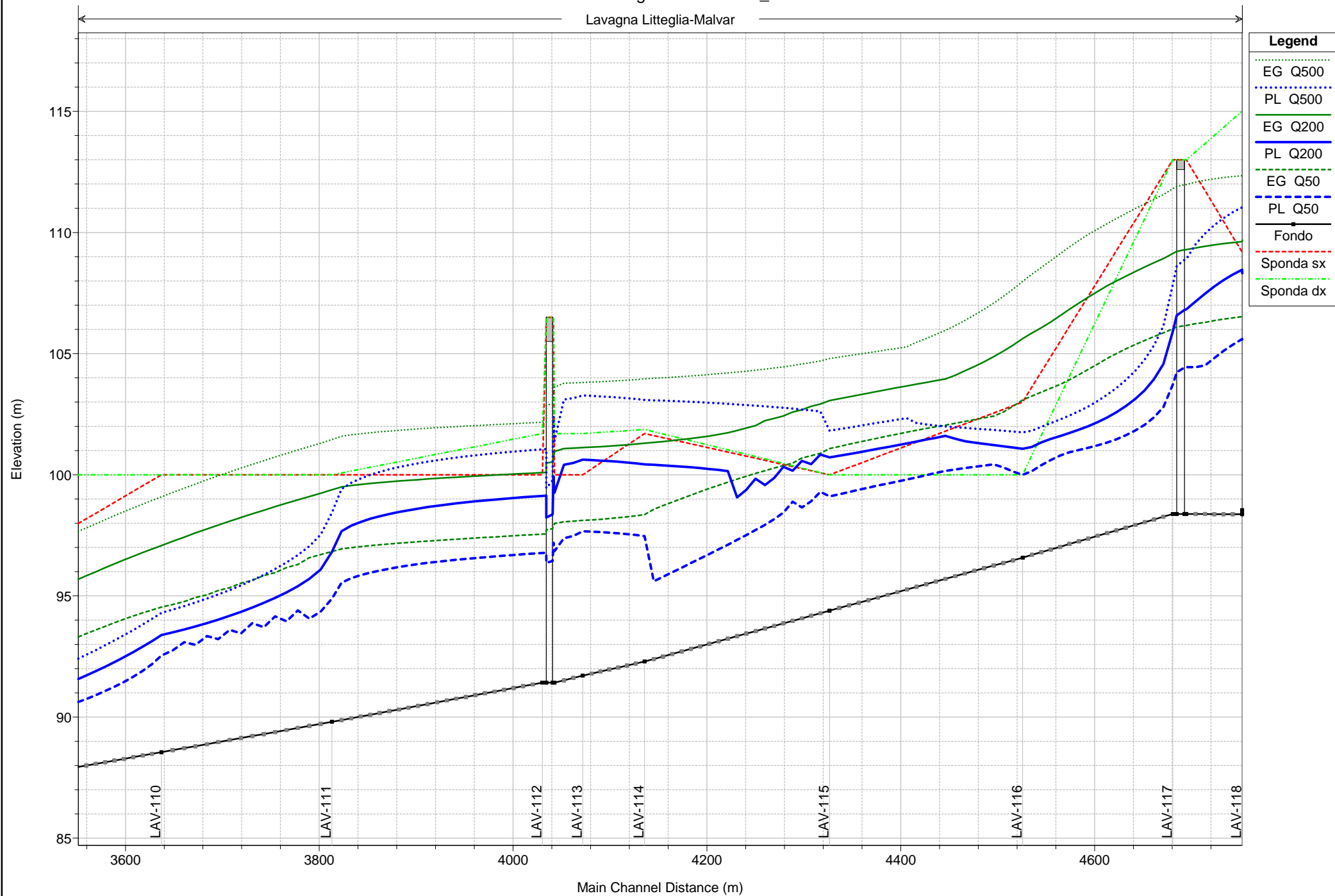


Legend	
EG Q500	Green dotted line
PL Q500	Blue dotted line
EG Q200	Solid green line
PL Q200	Solid blue line
EG Q50	Green dashed line
PL Q50	Blue dashed line
Fondo	Solid black line
Sponda sx	Red dashed line
Sponda dx	Green dashed line

1 cm Horiz. = 50 m 1 cm Vert. = 2 m

Torrente Lavagna Plan: 01_sett14

Lavagna Litteglia-Malvar

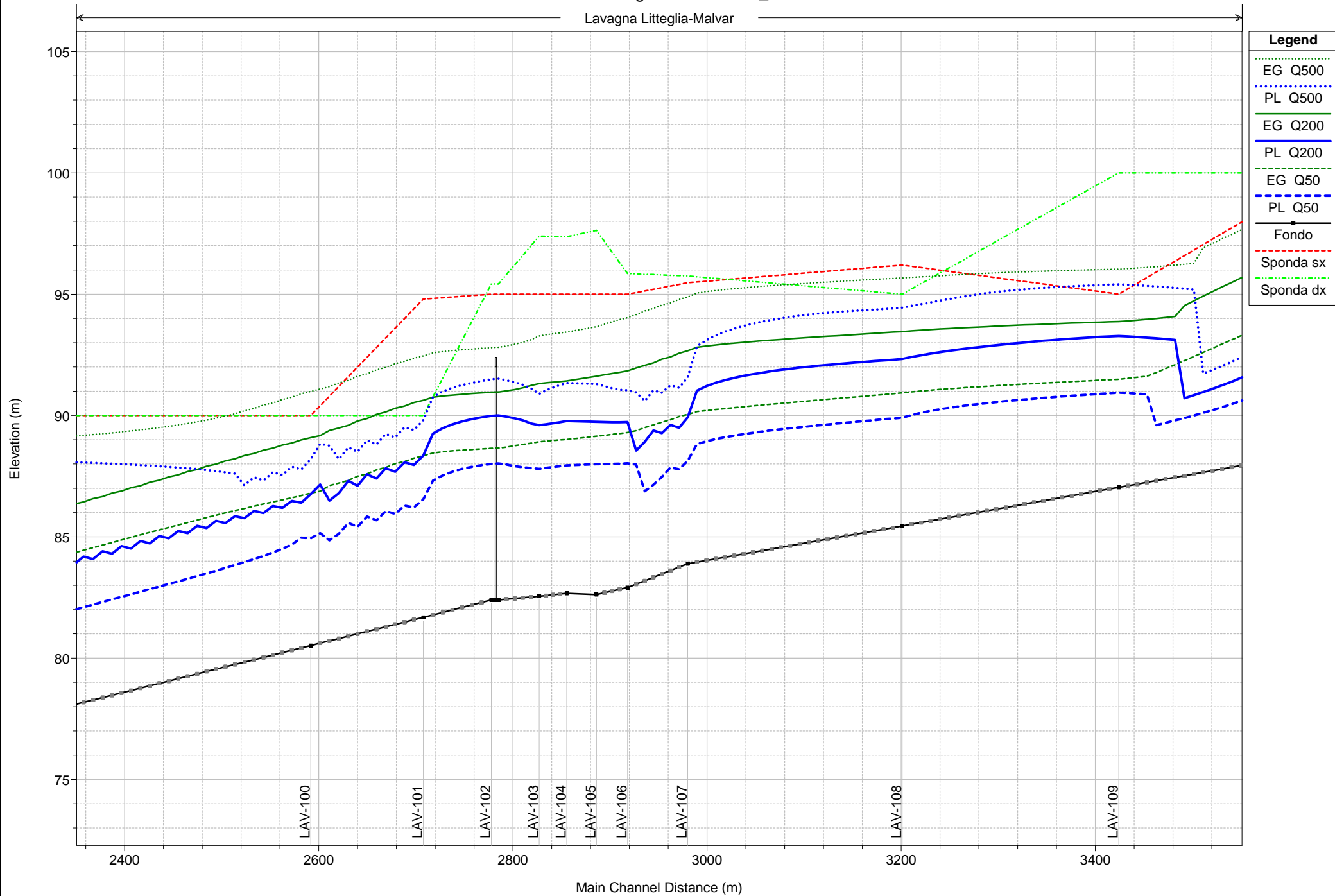


Legend	
EG Q500	(Dotted green line)
PL Q500	(Dotted blue line)
EG Q200	(Solid green line)
PL Q200	(Solid blue line)
EG Q50	(Dashed green line)
PL Q50	(Dashed blue line)
Fondo	(Solid black line with dots)
Sponda sx	(Dashed red line)
Sponda dx	(Dotted green line)

1 cm Horiz. = 50 m 1 cm Vert. = 2 m

Torrente Lavagna Plan: 01_sett14

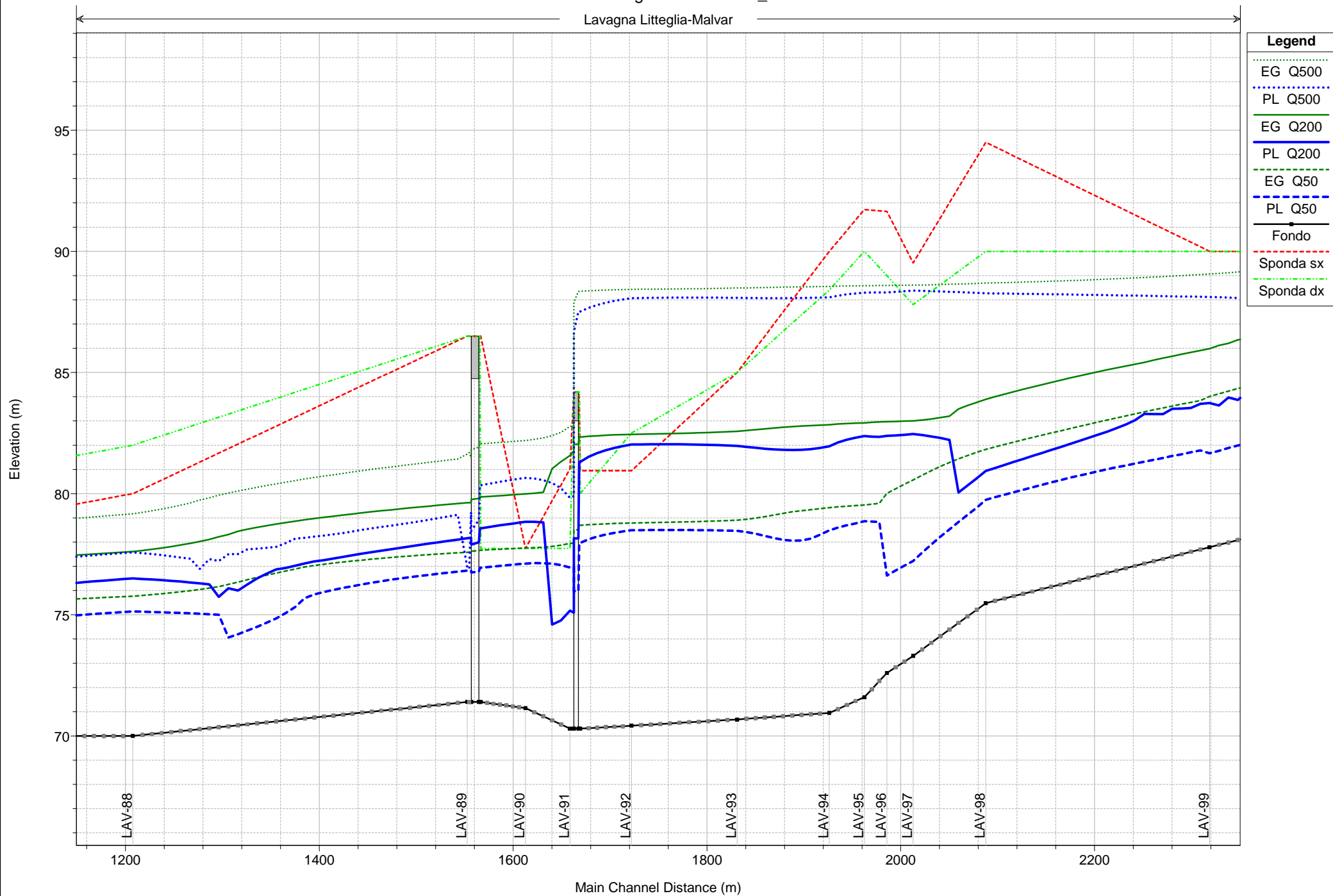
Lavagna Litteglia-Malvar



1 cm Horiz. = 50 m 1 cm Vert. = 2 m

Torrente Lavagna Plan: 01_sett14

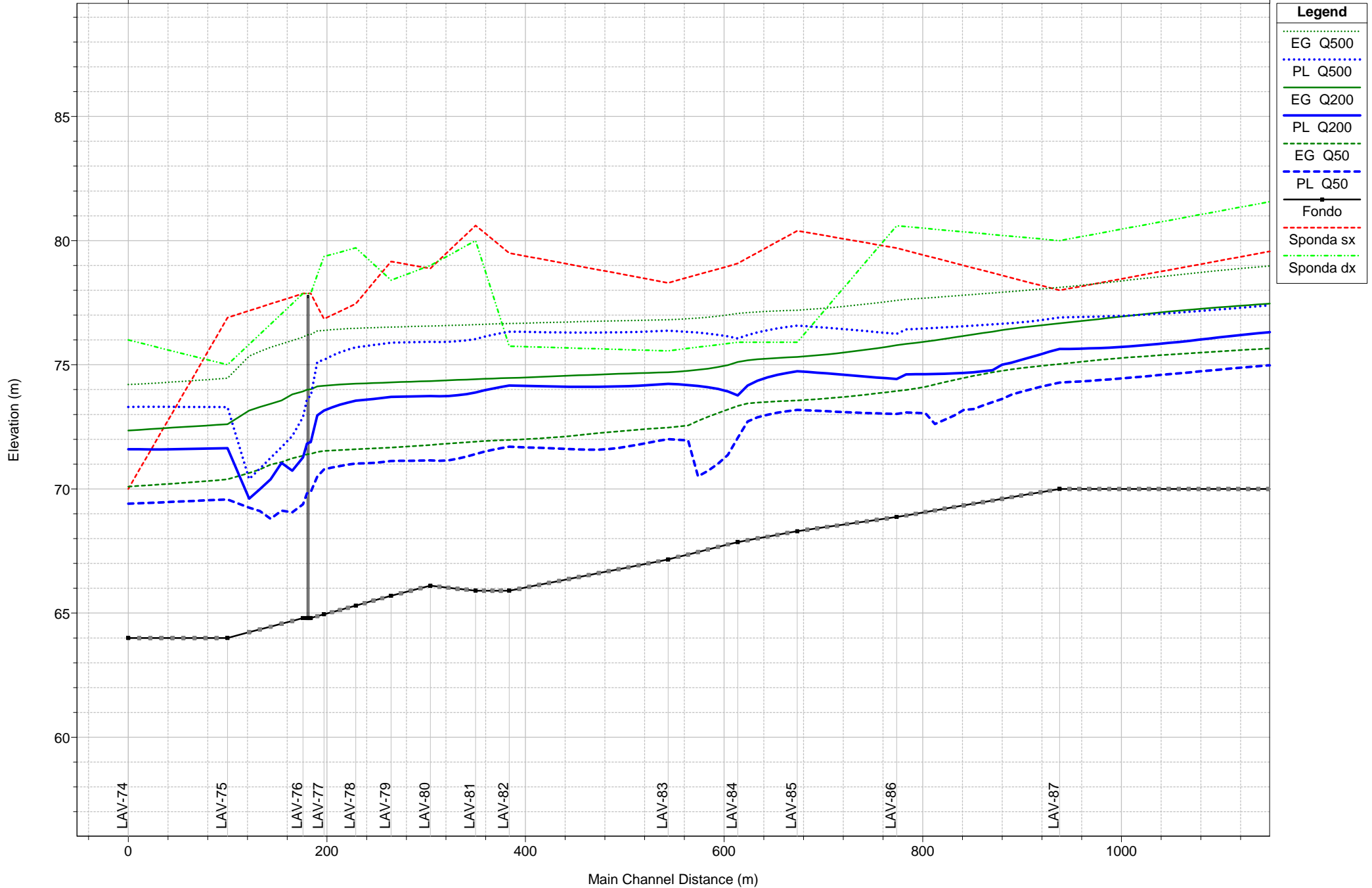
Lavagna Litteglia-Malvar



1 cm Horiz. = 50 m 1 cm Vert. = 2 m

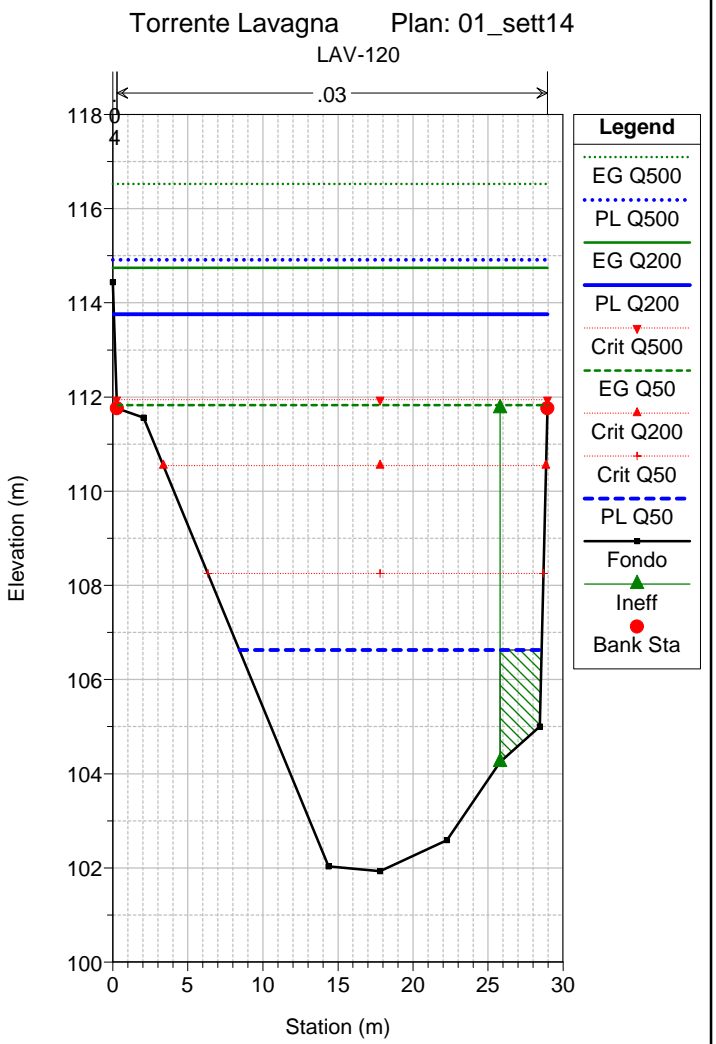
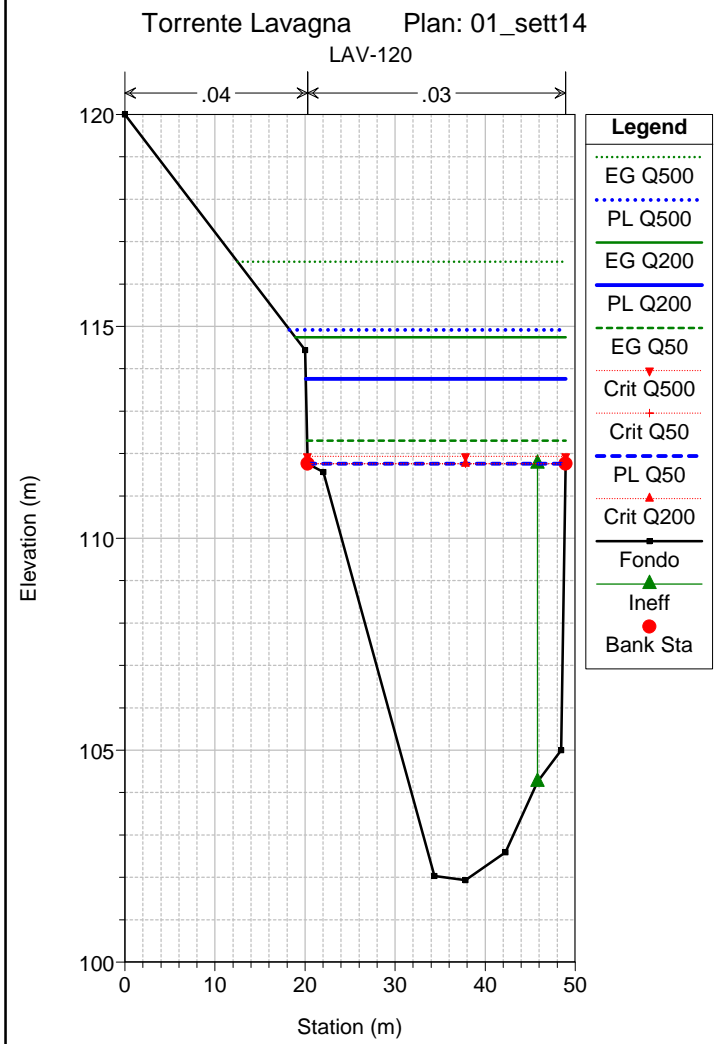
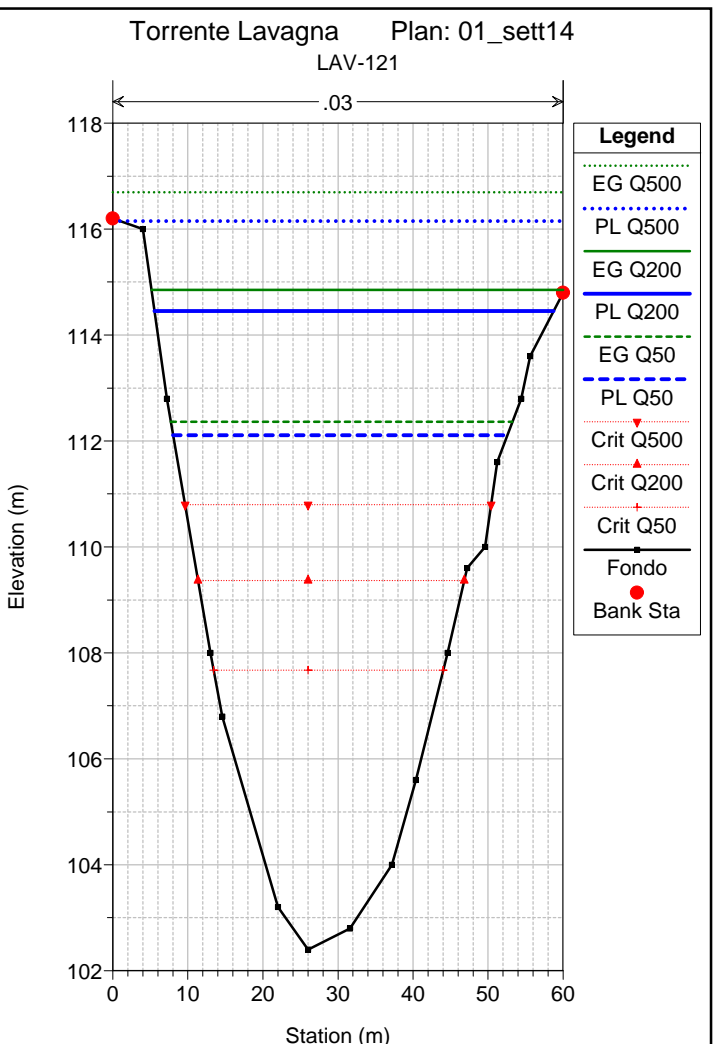
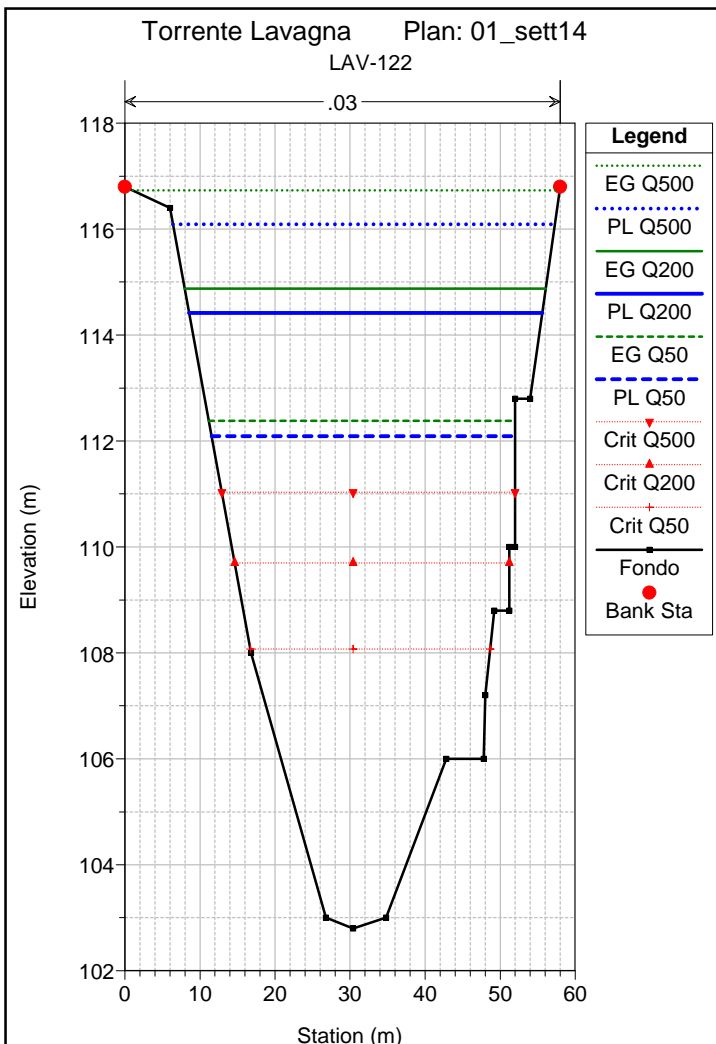
Torrente Lavagna Plan: 01_sett14

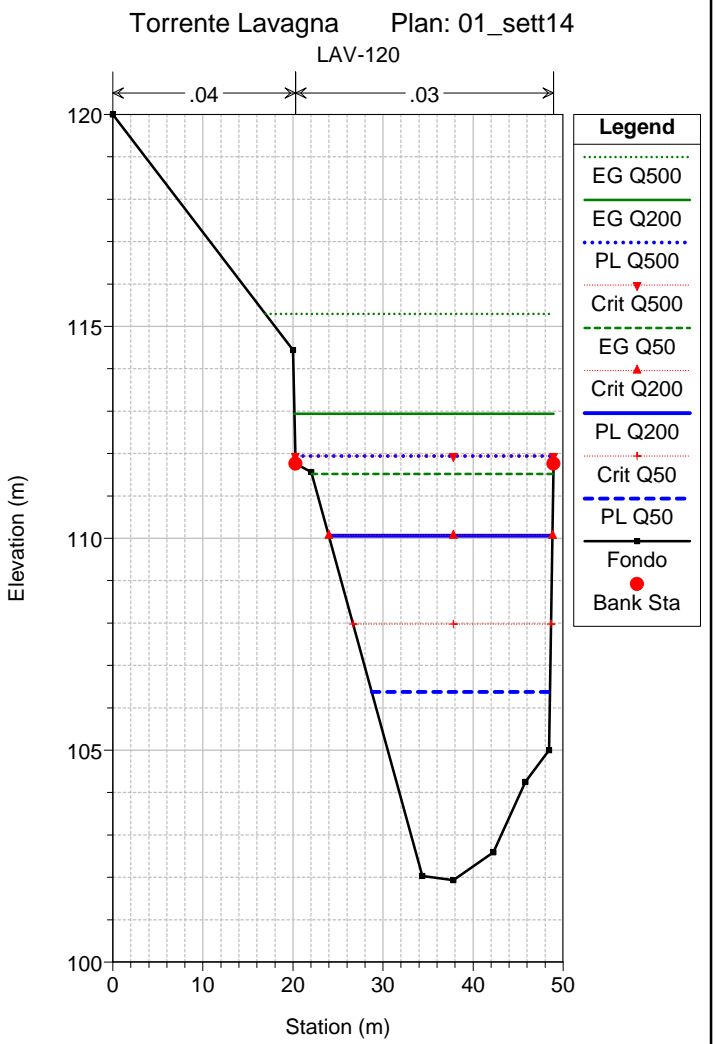
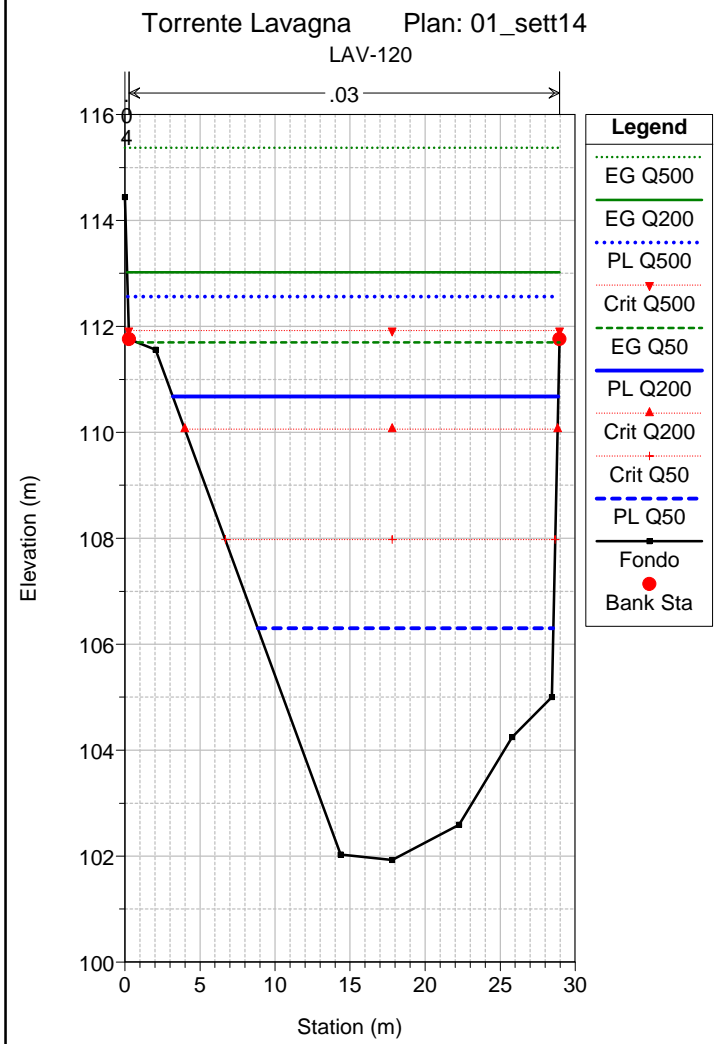
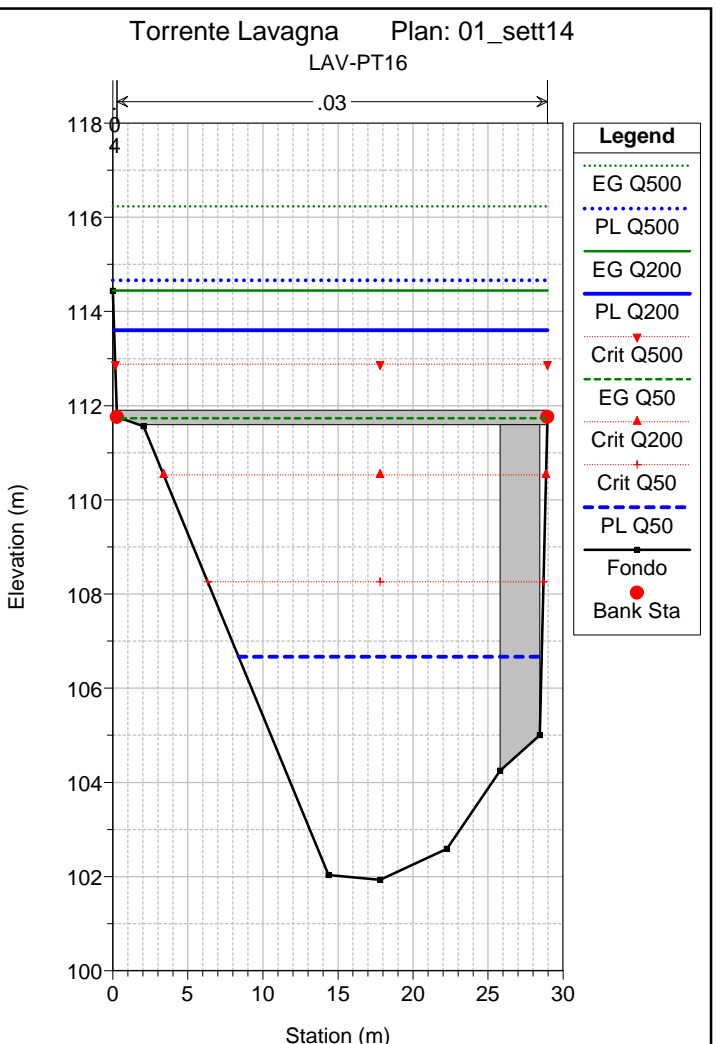
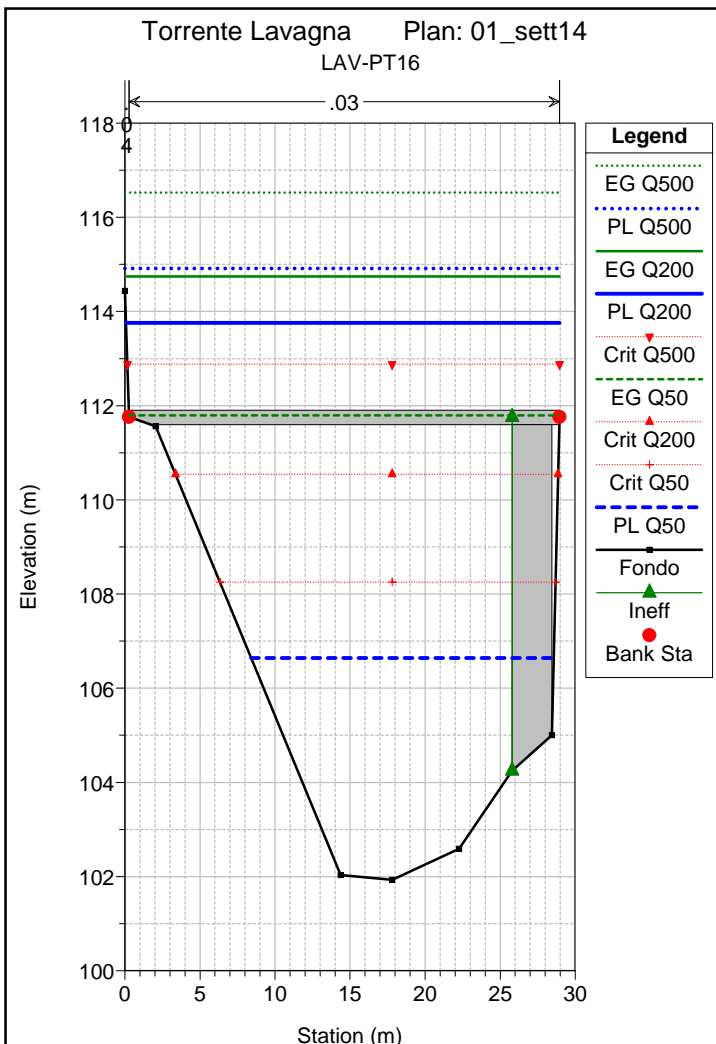
Lavagna Litteglia-Malvar



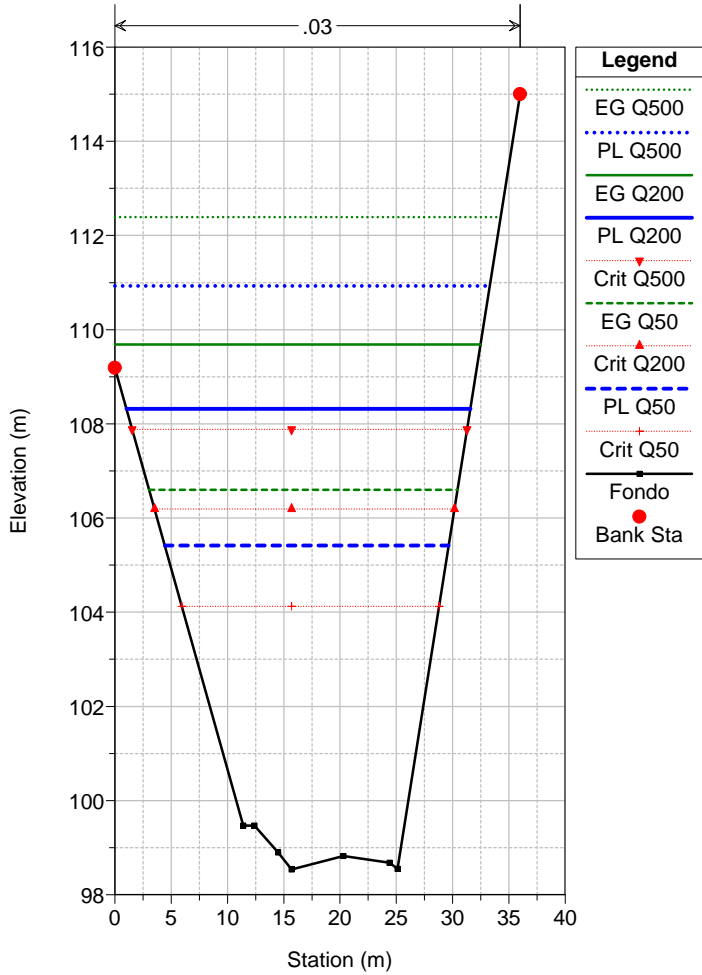
Legend	
EG Q500	(Dotted black line)
PL Q500	(Dotted blue line)
EG Q200	(Solid green line)
PL Q200	(Solid blue line)
EG Q50	(Dashed green line)
PL Q50	(Dashed blue line)
Fondo	(Solid black line with markers)
Sponda sx	(Dashed red line)
Sponda dx	(Dashed light green line)

1 cm Horiz. = 50 m 1 cm Vert. = 2 m

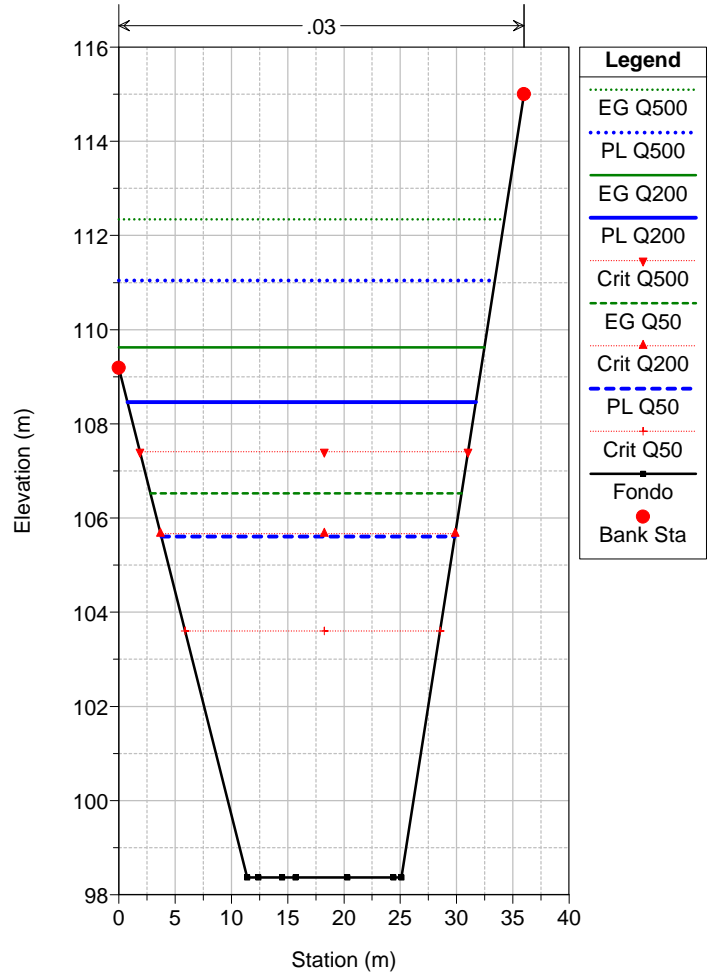




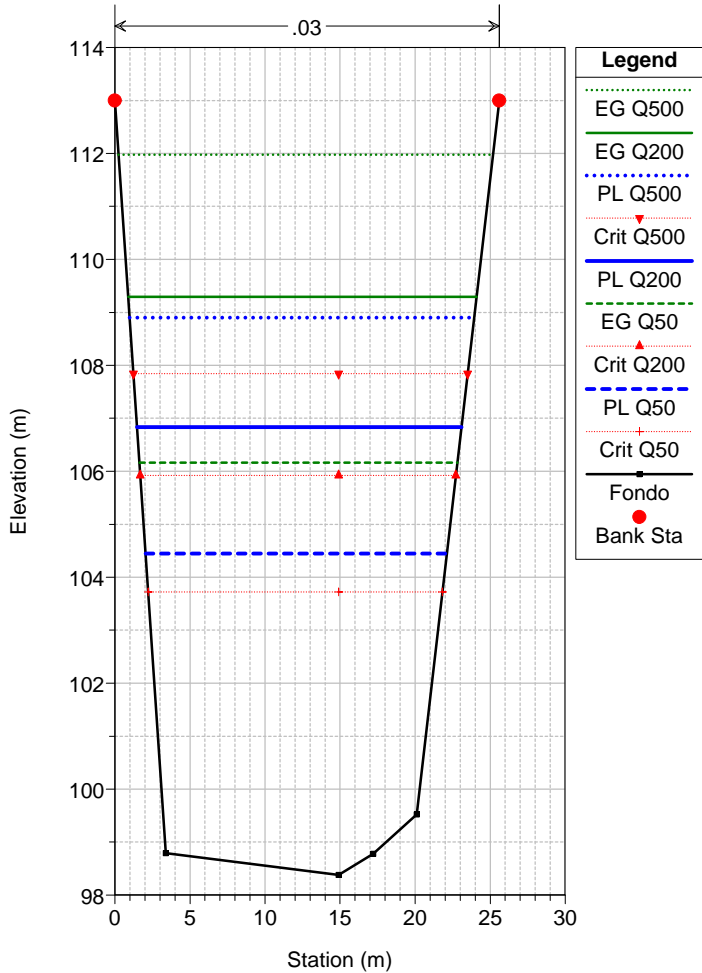
Torrente Lavagna Plan: 01_sett14
LAV-119



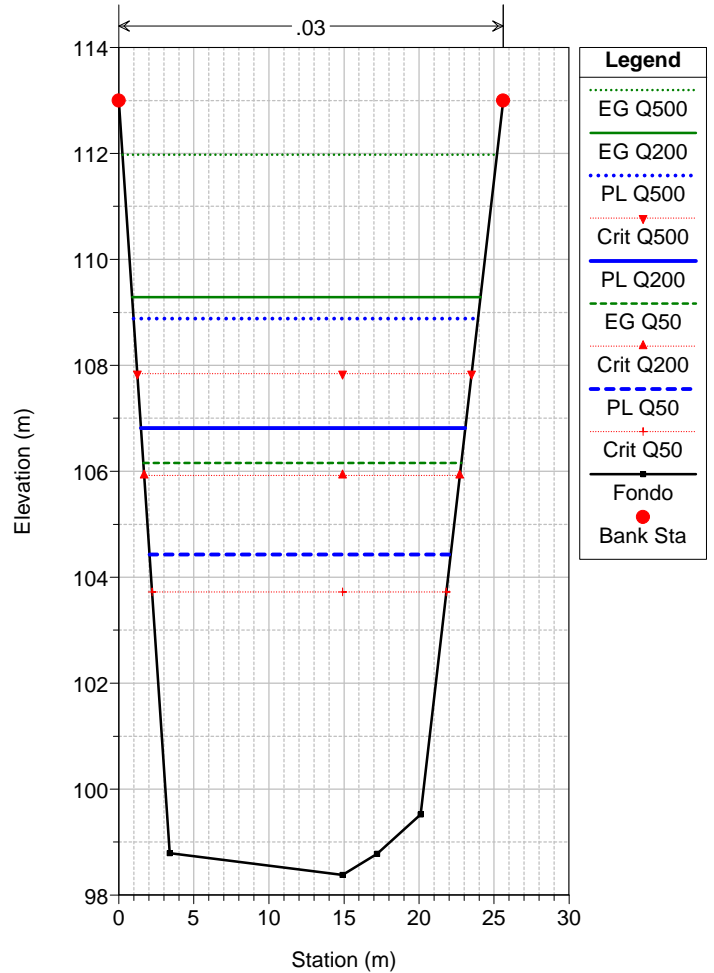
Torrente Lavagna Plan: 01_sett14
LAV-118



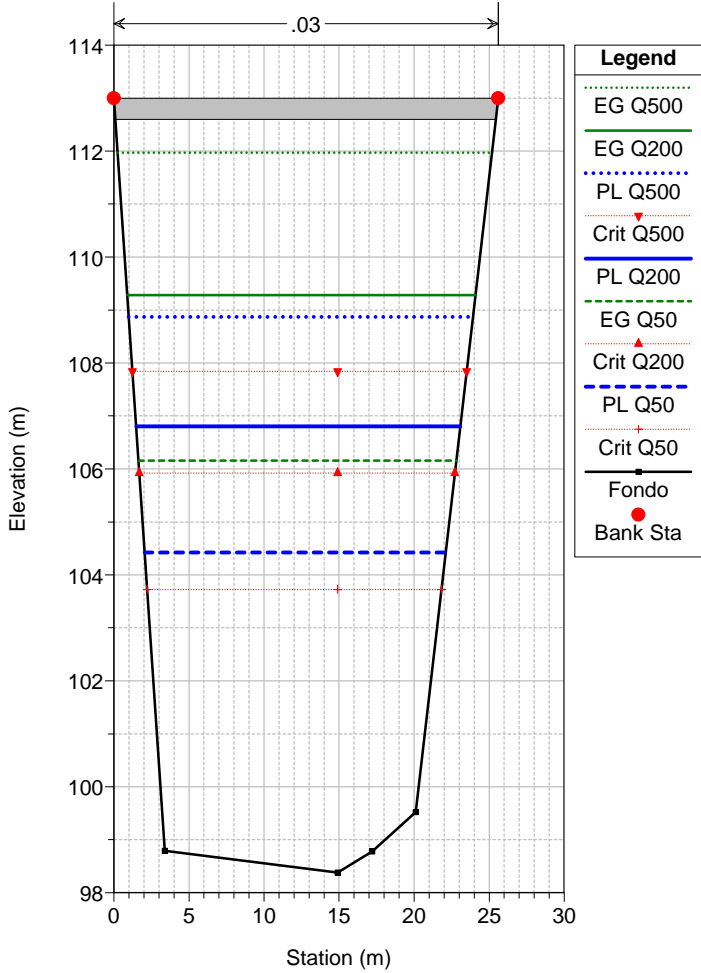
Torrente Lavagna Plan: 01_sett14
LAV-117



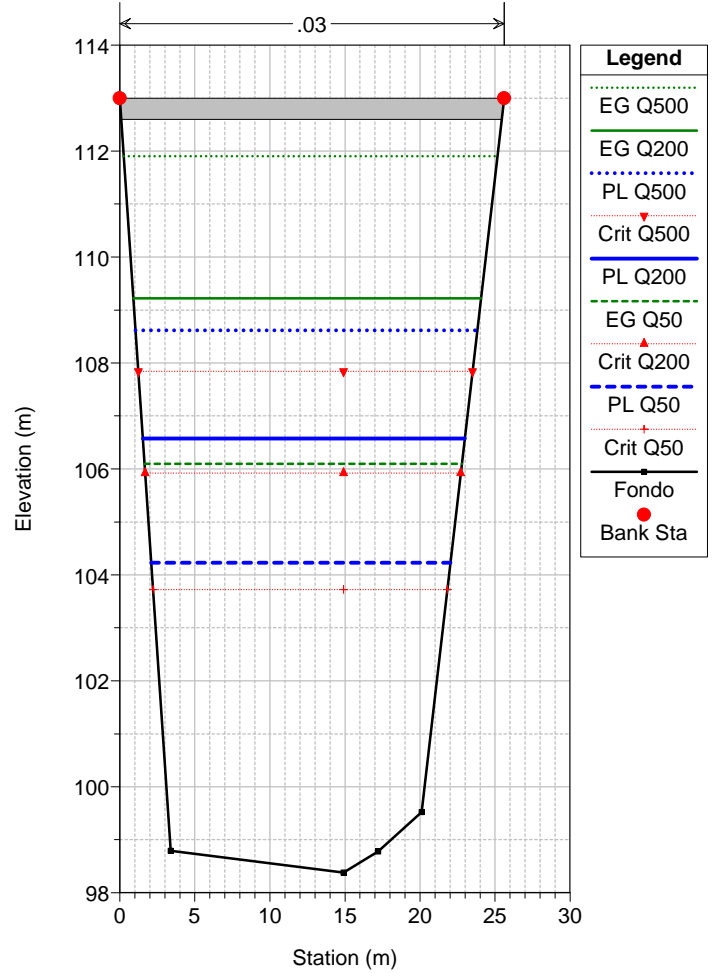
Torrente Lavagna Plan: 01_sett14
LAV-117



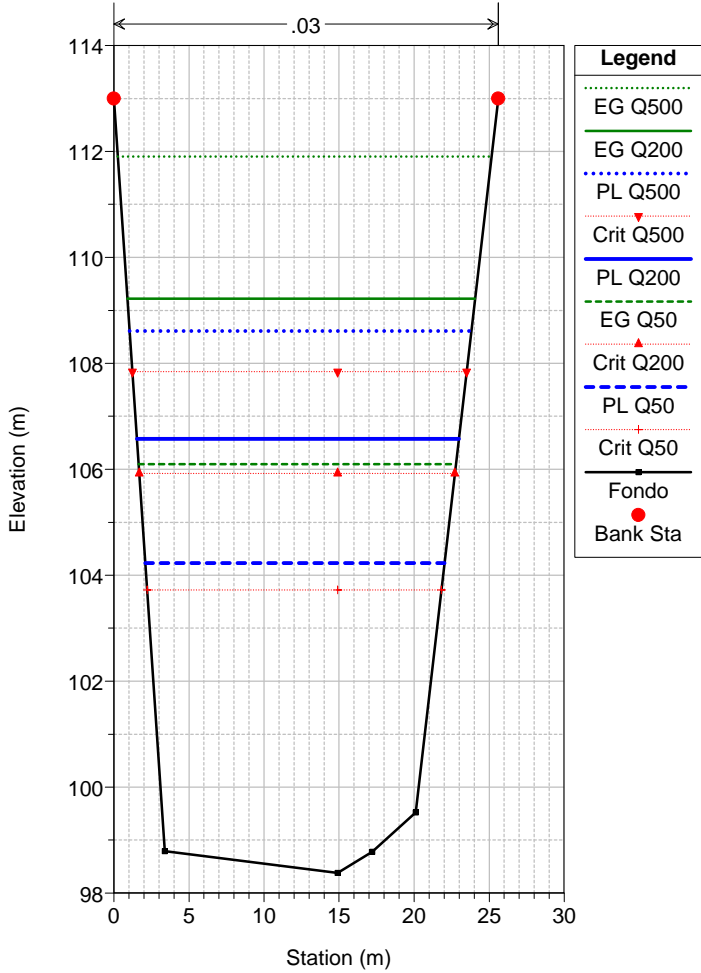
Torrente Lavagna Plan: 01_sett14
LAV-PT15



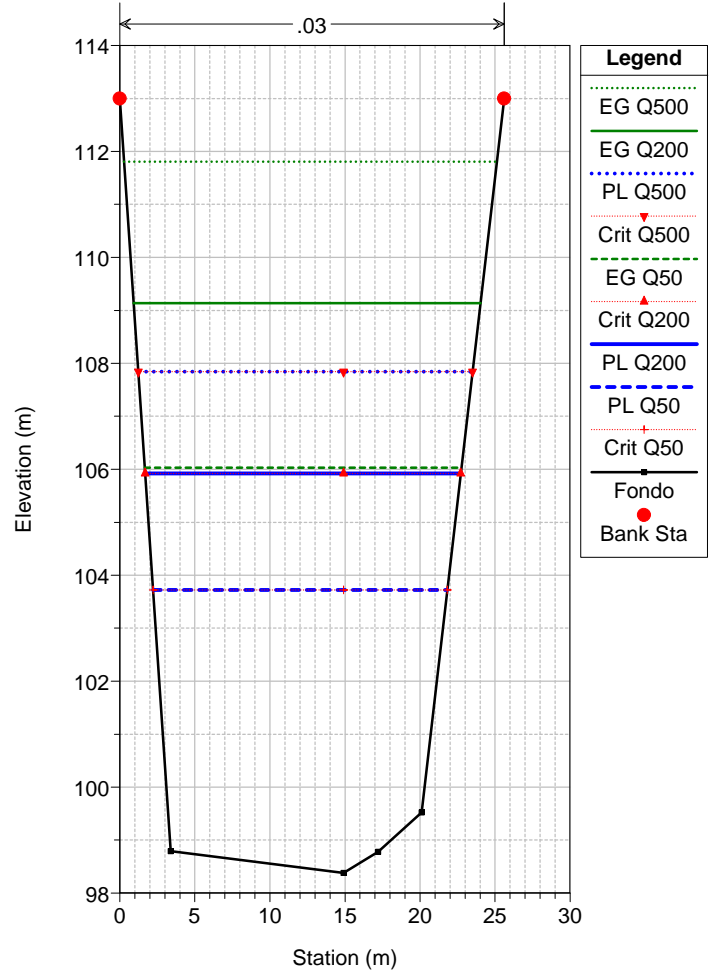
Torrente Lavagna Plan: 01_sett14
LAV-PT15



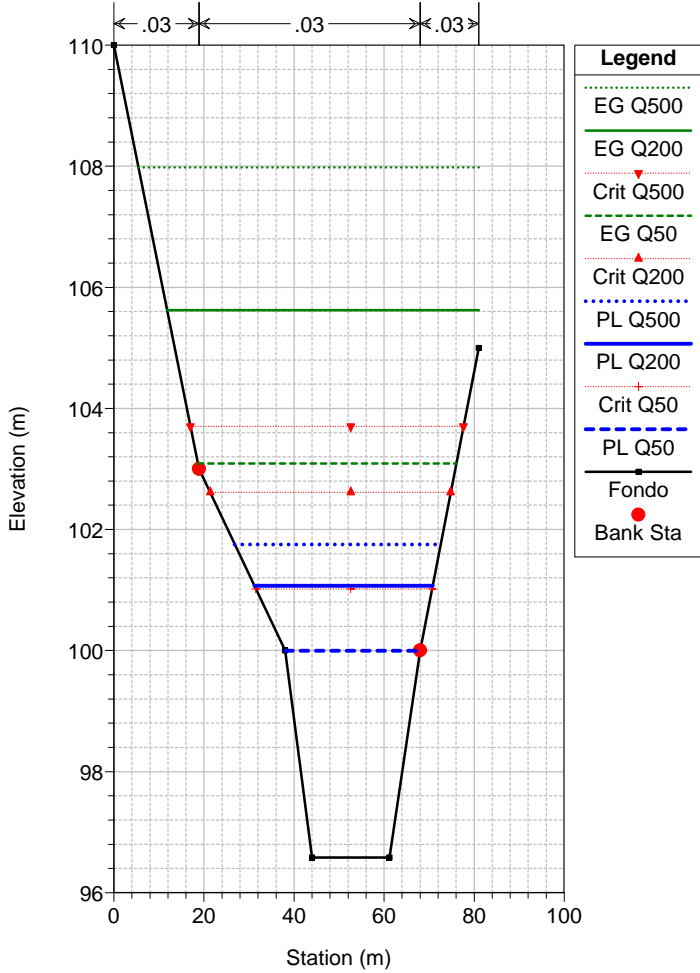
Torrente Lavagna Plan: 01_sett14
LAV-117



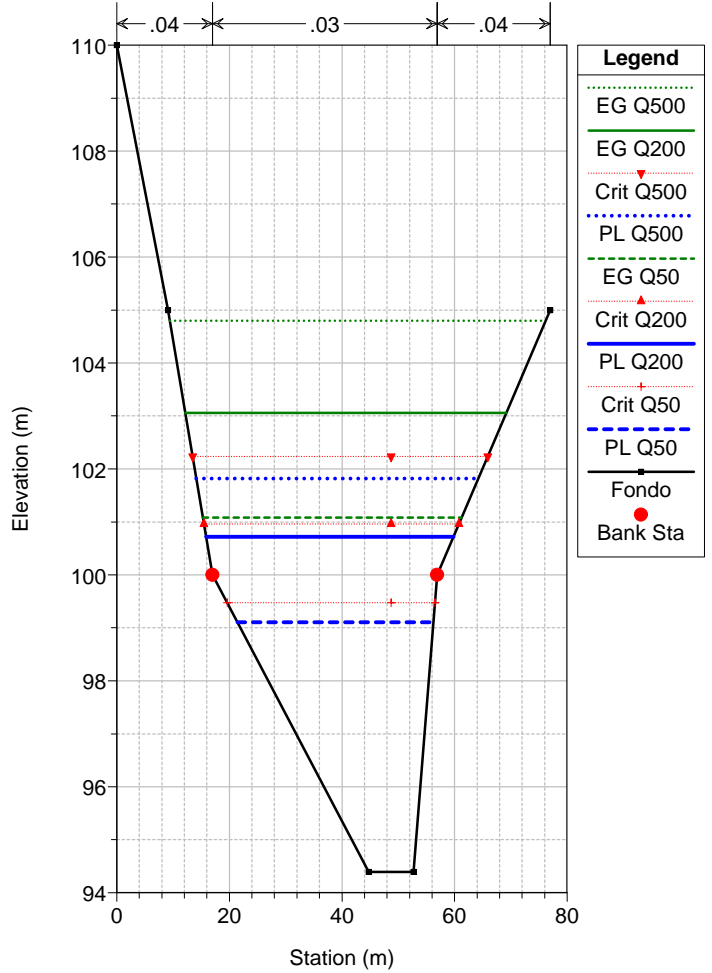
Torrente Lavagna Plan: 01_sett14
LAV-117



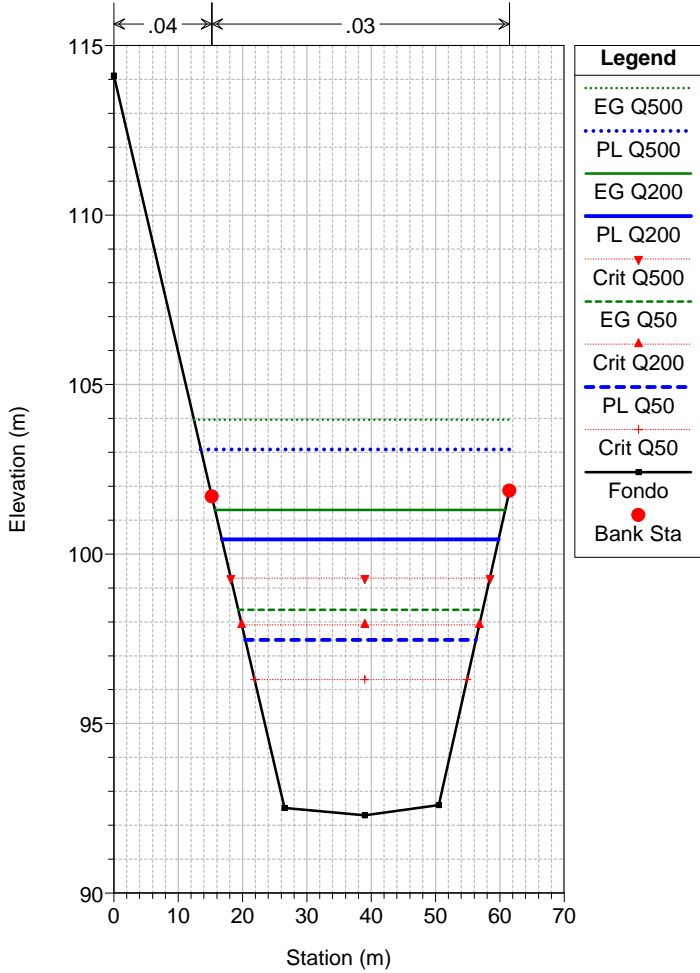
Torrente Lavagna Plan: 01_sett14
LAV-116



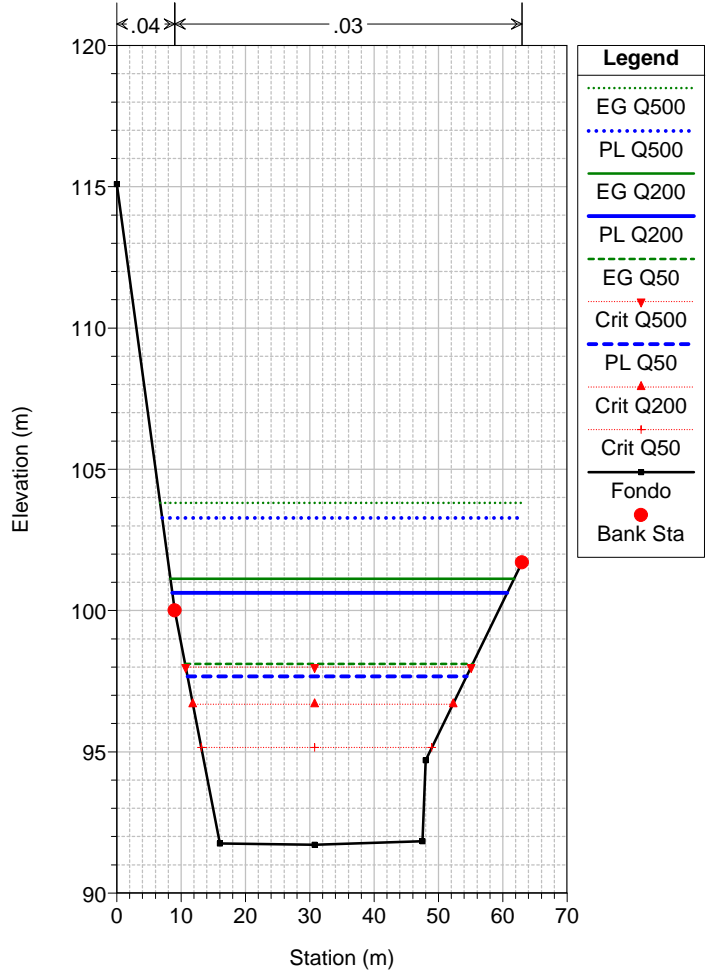
Torrente Lavagna Plan: 01_sett14
LAV-115



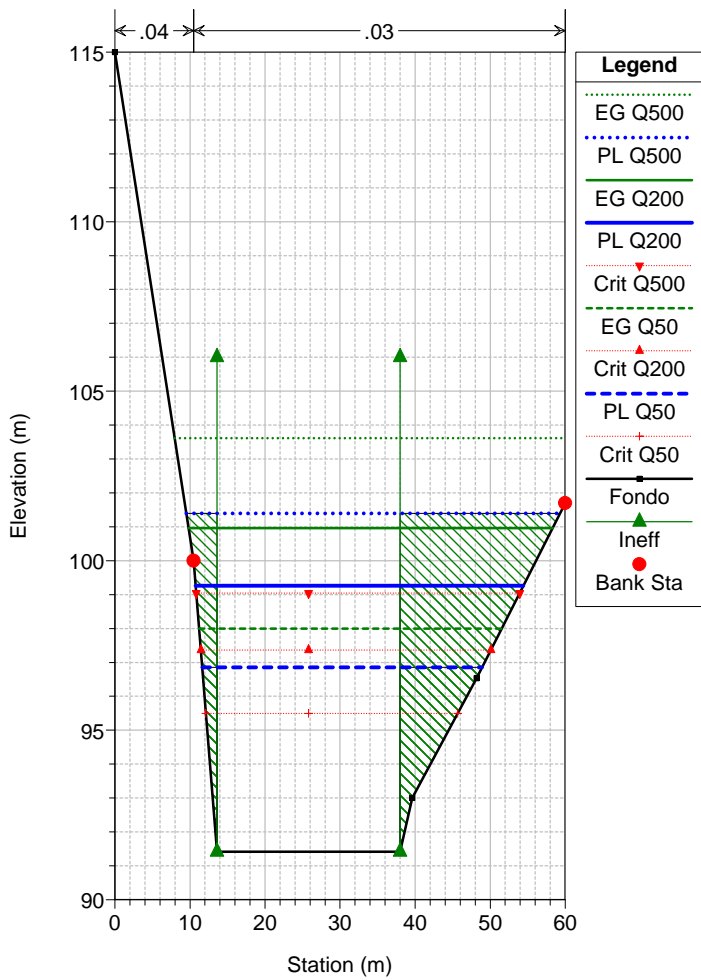
Torrente Lavagna Plan: 01_sett14
LAV-114



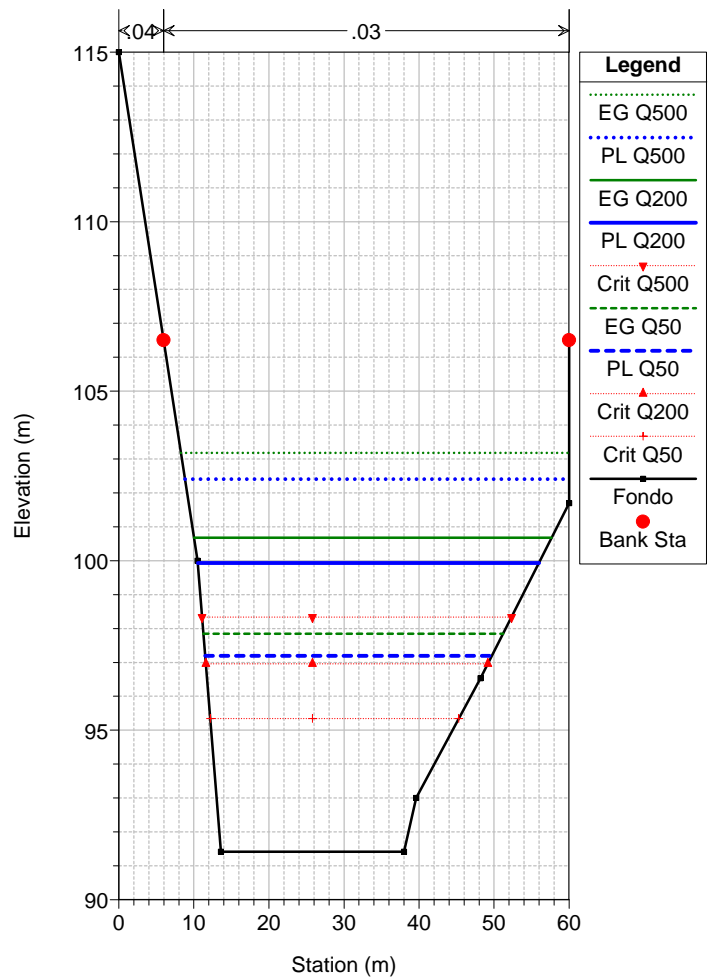
Torrente Lavagna Plan: 01_sett14
LAV-113



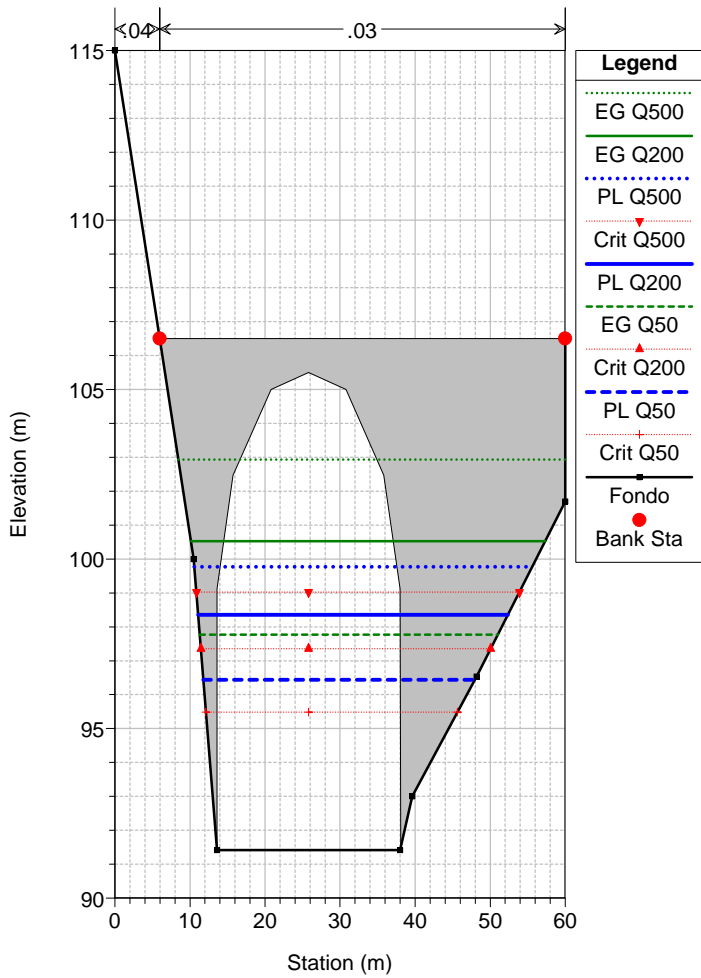
Torrente Lavagna Plan: 01_sett14
LAV-112



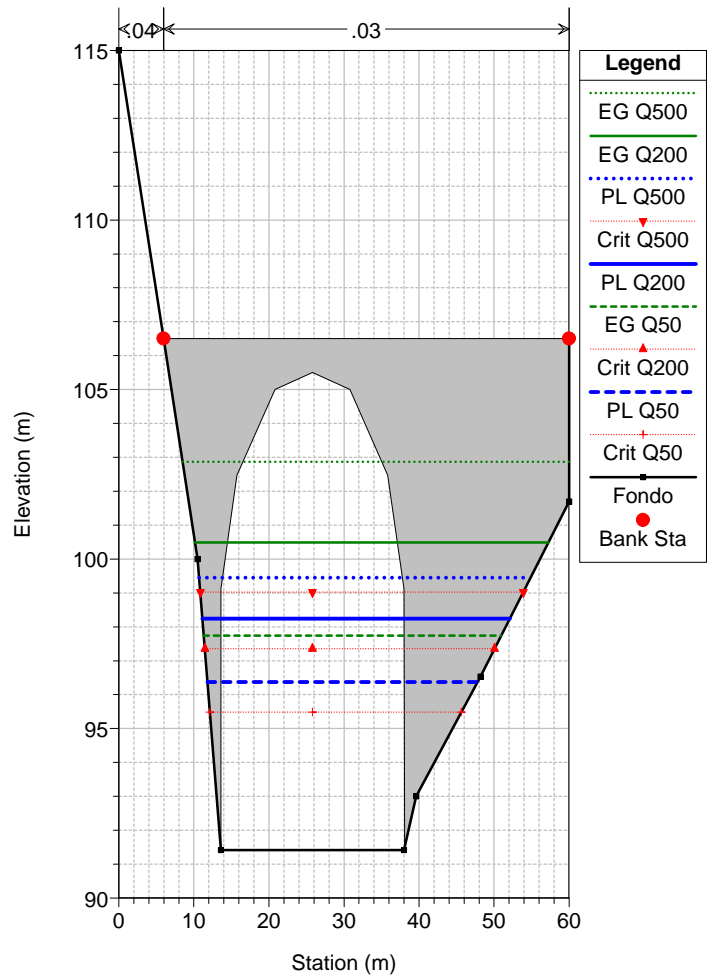
Torrente Lavagna Plan: 01_sett14
LAV-112



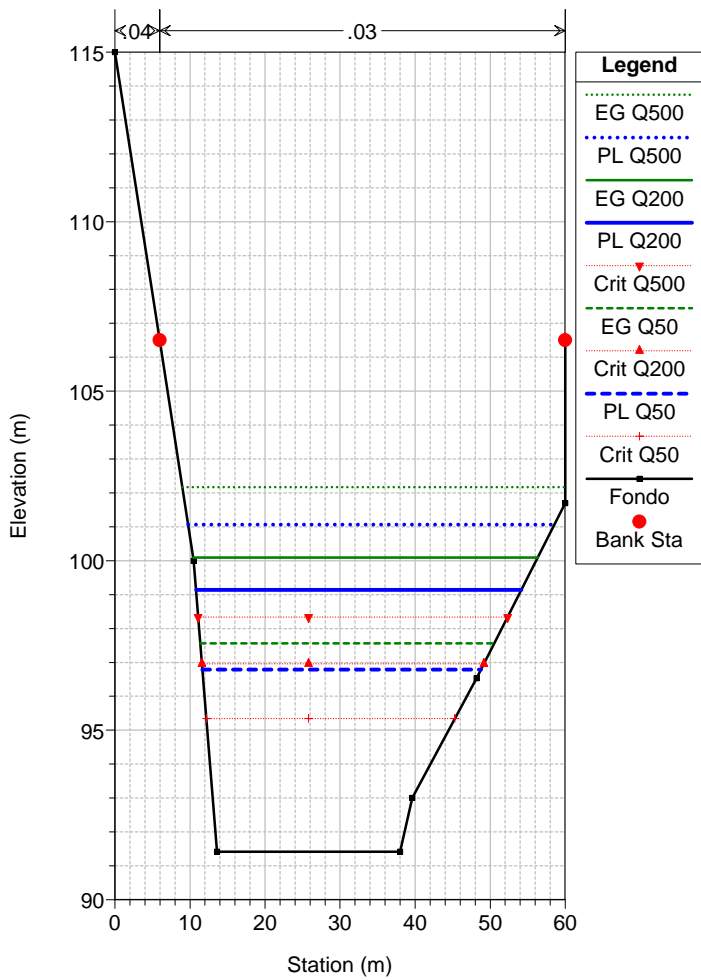
Torrente Lavagna Plan: 01_sett14
LAV-PT14



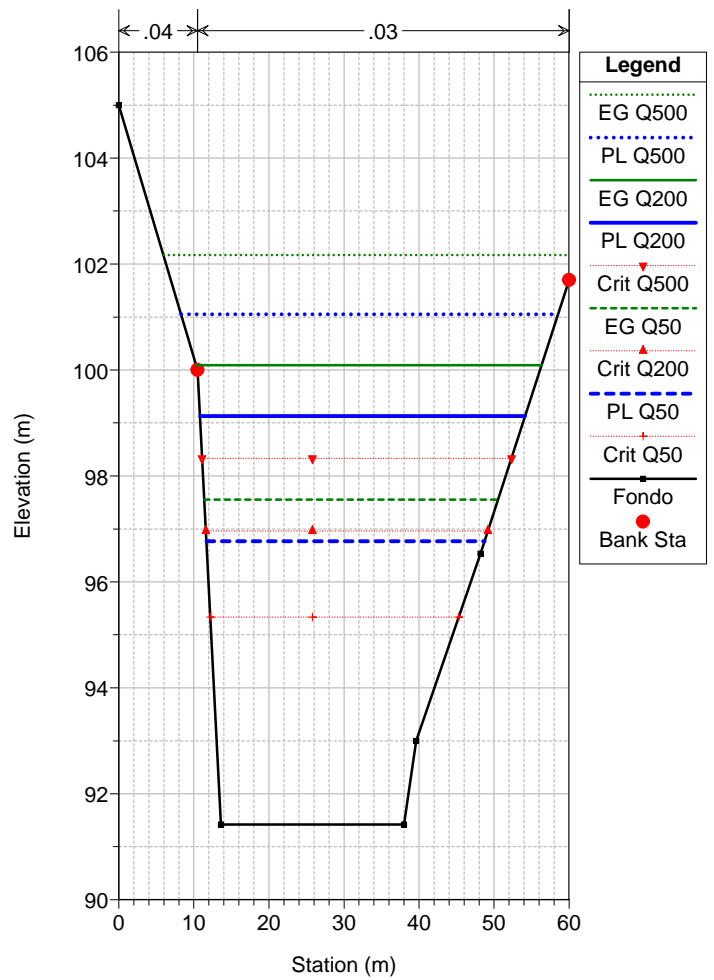
Torrente Lavagna Plan: 01_sett14
LAV-PT14



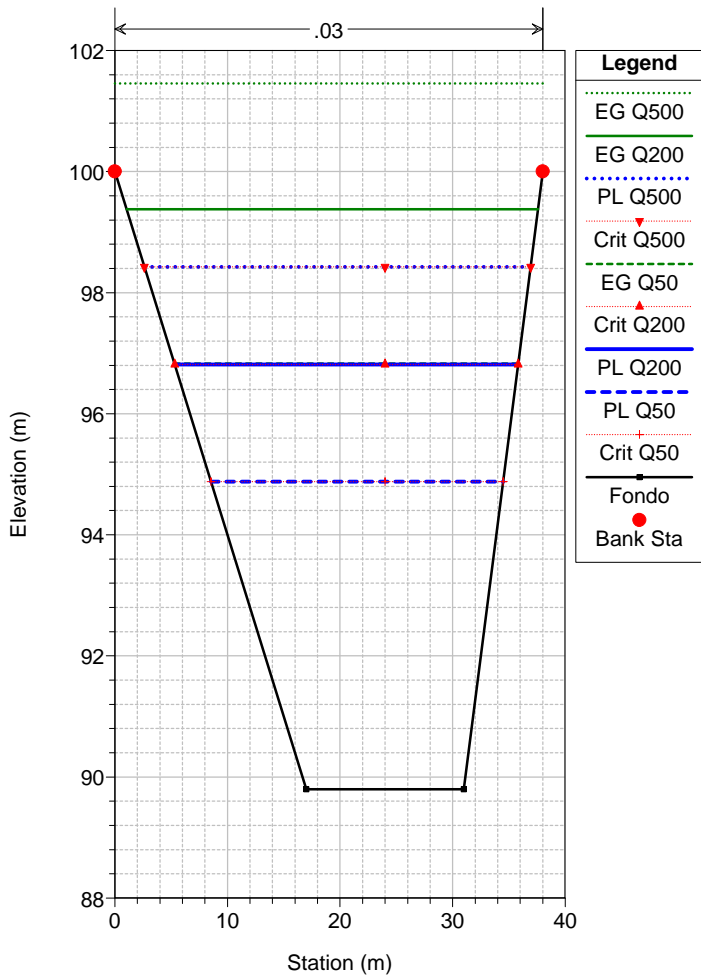
Torrente Lavagna Plan: 01_sett14
LAV-112



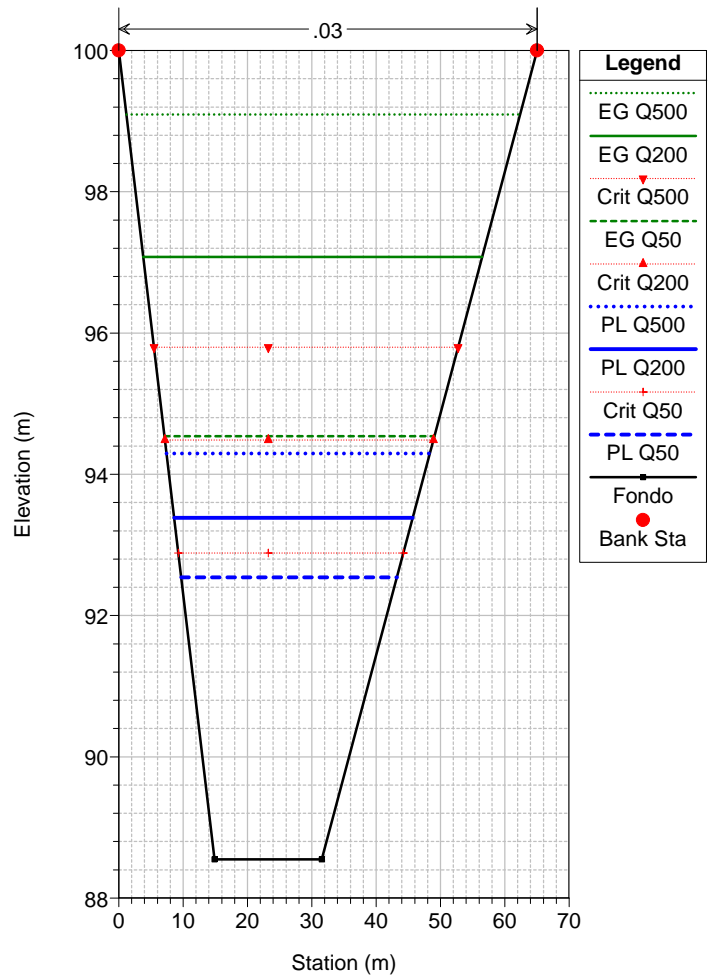
Torrente Lavagna Plan: 01_sett14
LAV-112



Torrente Lavagna Plan: 01_sett14
LAV-111

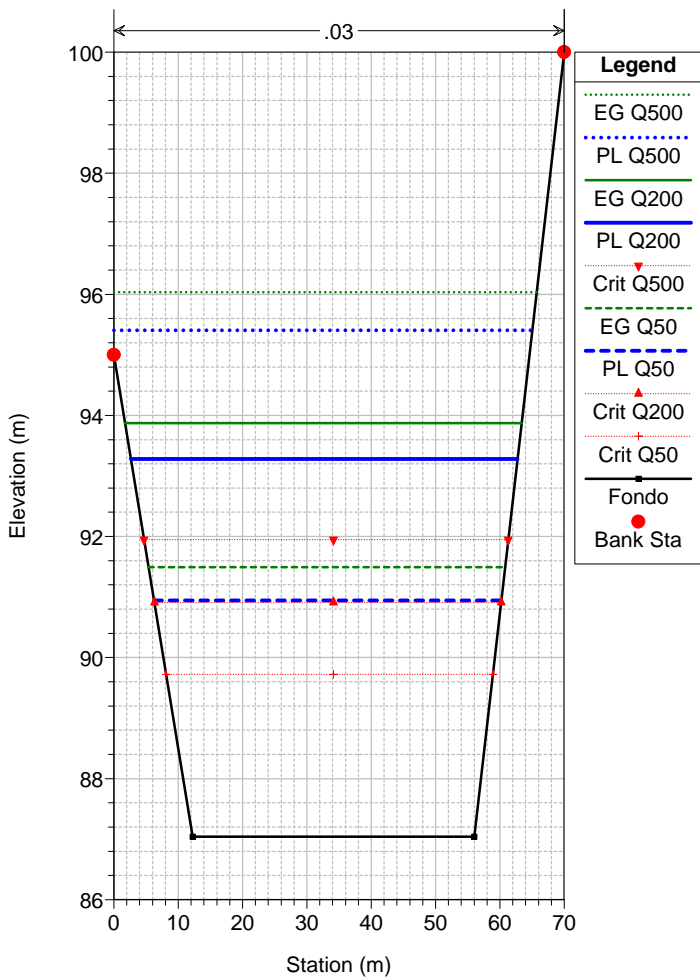


Torrente Lavagna Plan: 01_sett14
LAV-110



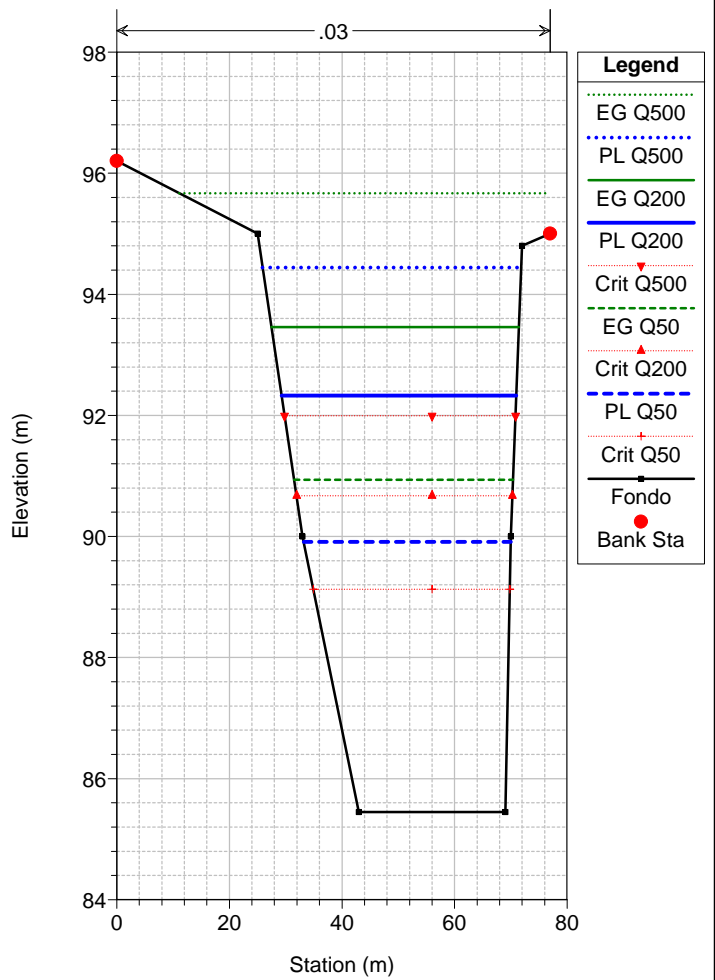
Torrente Lavagna Plan: 01_sett14

LAV-109



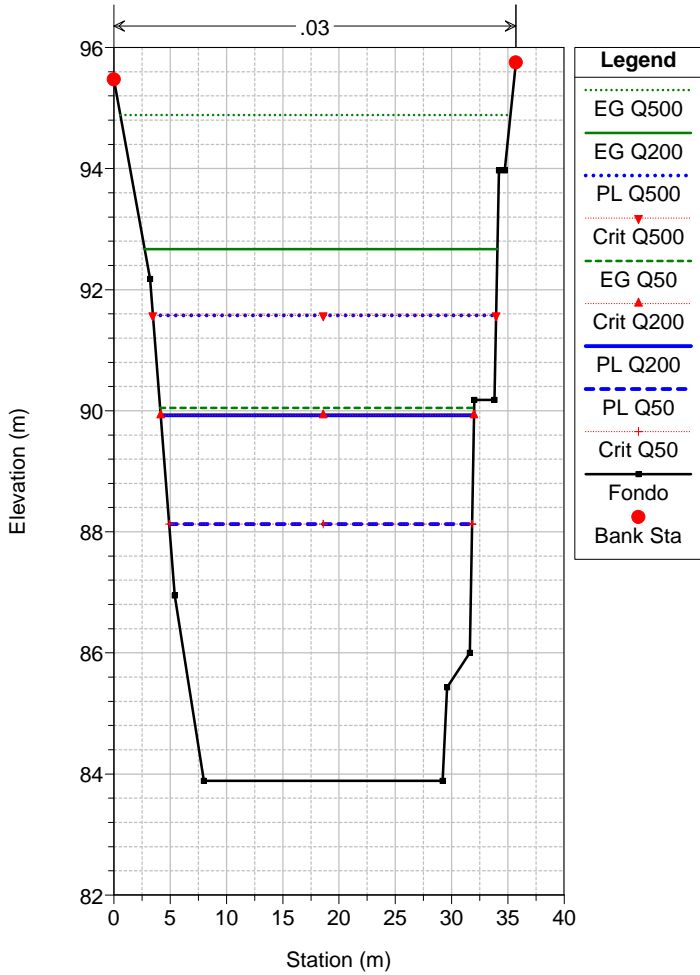
Torrente Lavagna Plan: 01_sett14

LAV-108



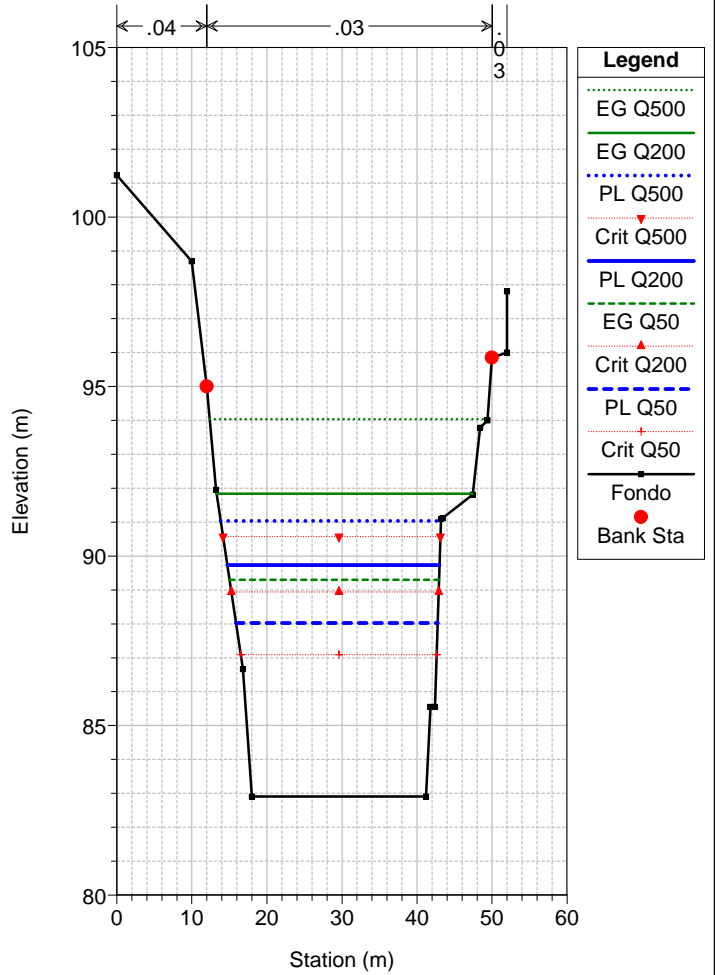
Torrente Lavagna Plan: 01_sett14

LAV-107

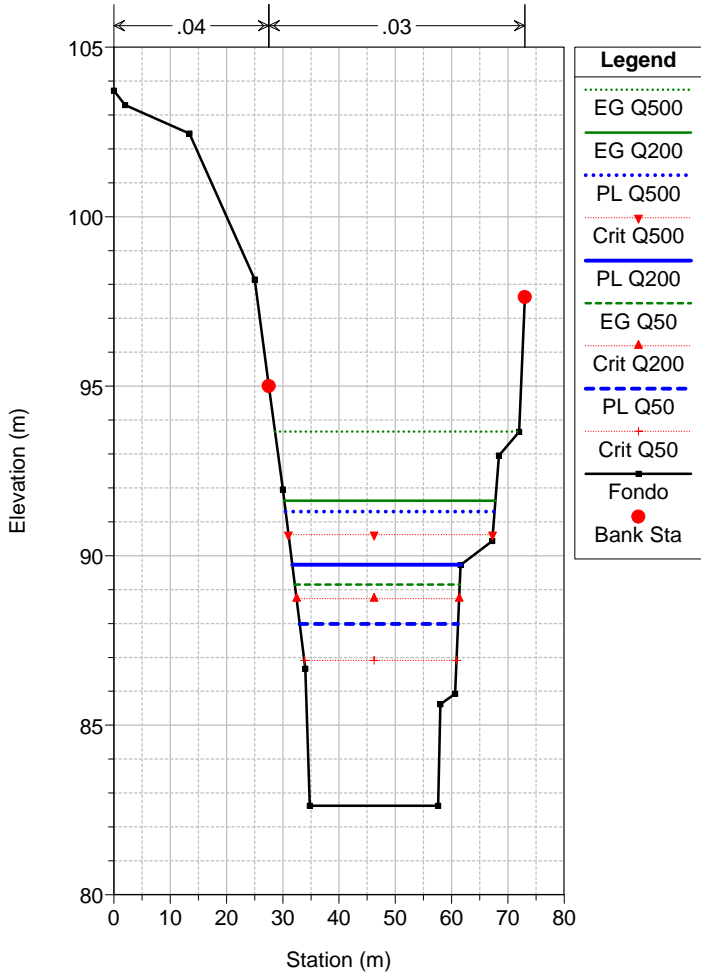


Torrente Lavagna Plan: 01_sett14

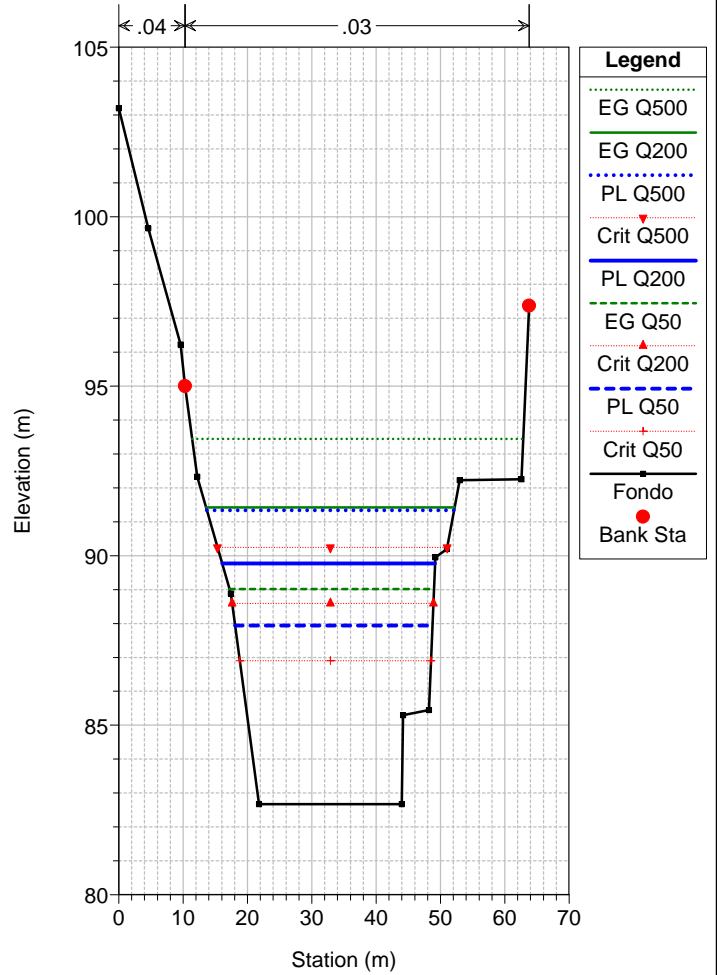
LAV-106



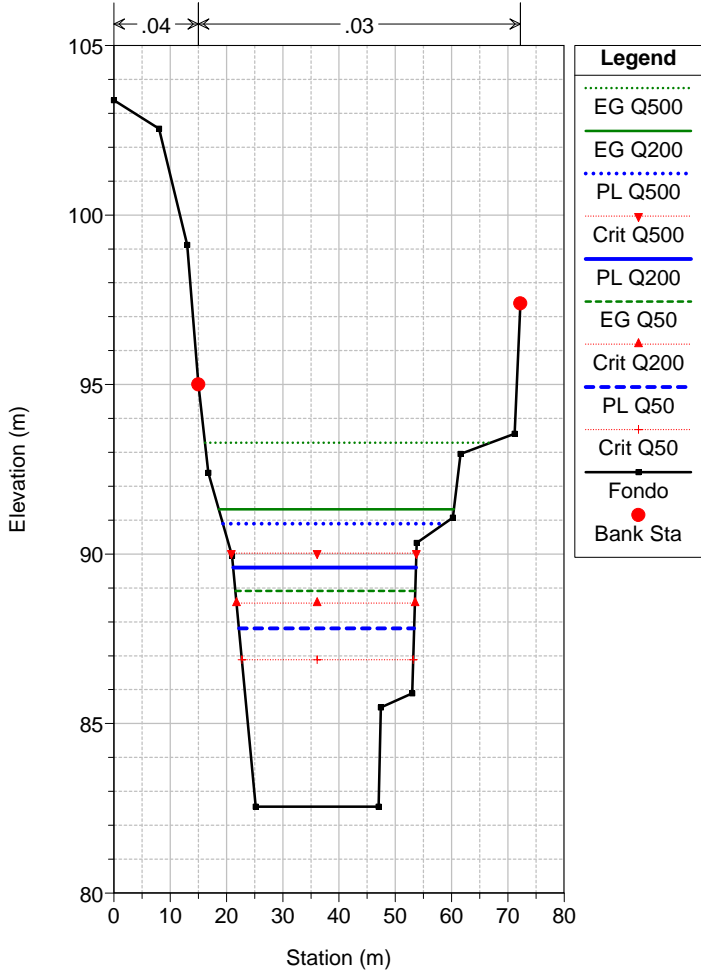
Torrente Lavagna Plan: 01_sett14
LAV-105



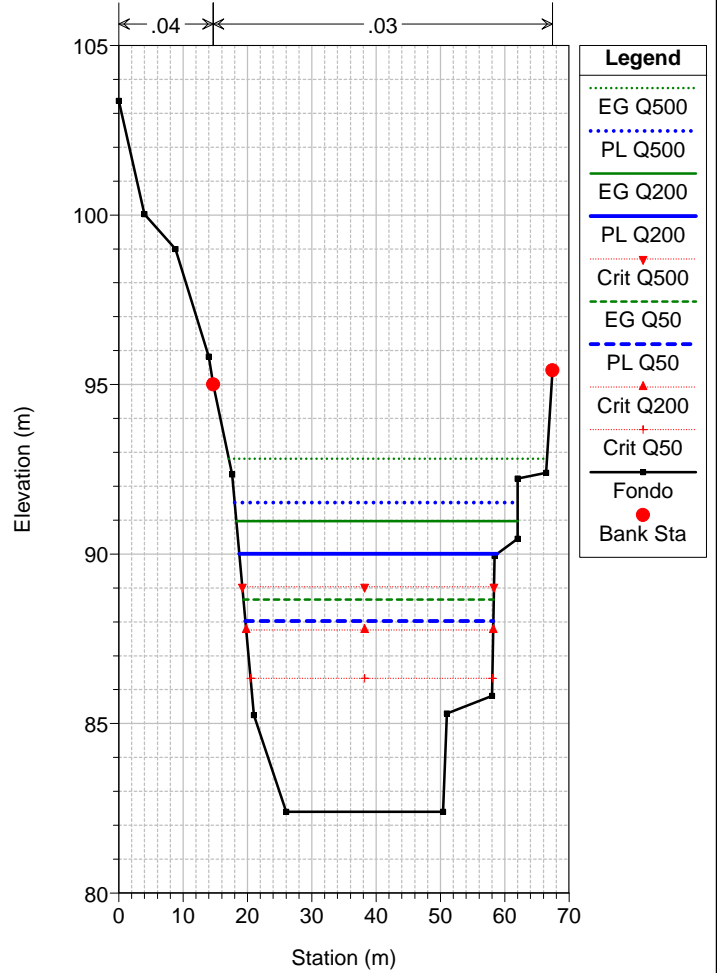
Torrente Lavagna Plan: 01_sett14
LAV-104



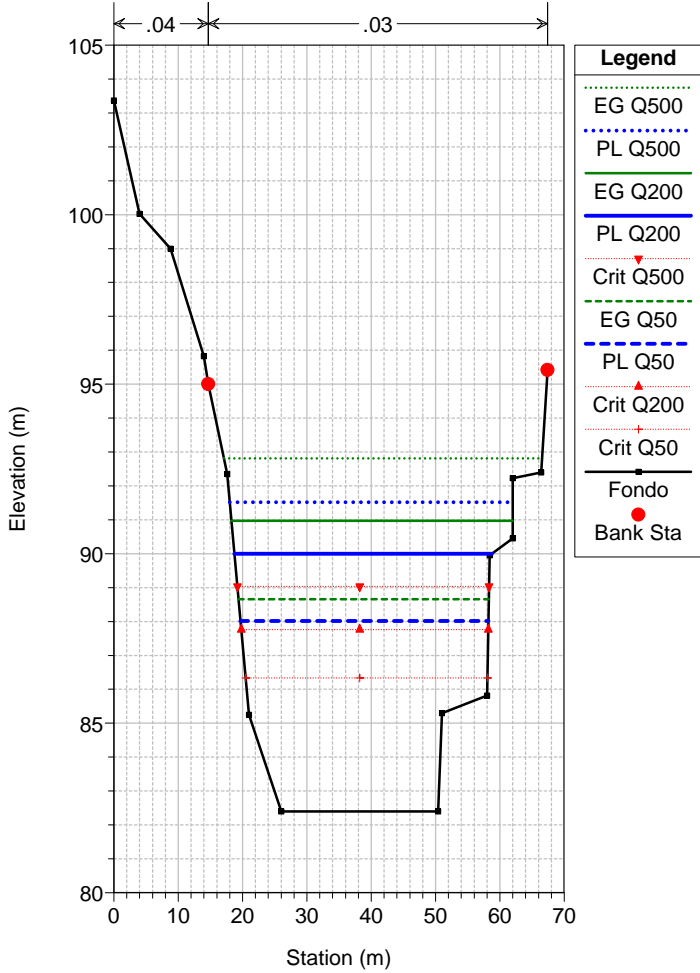
Torrente Lavagna Plan: 01_sett14
LAV-103



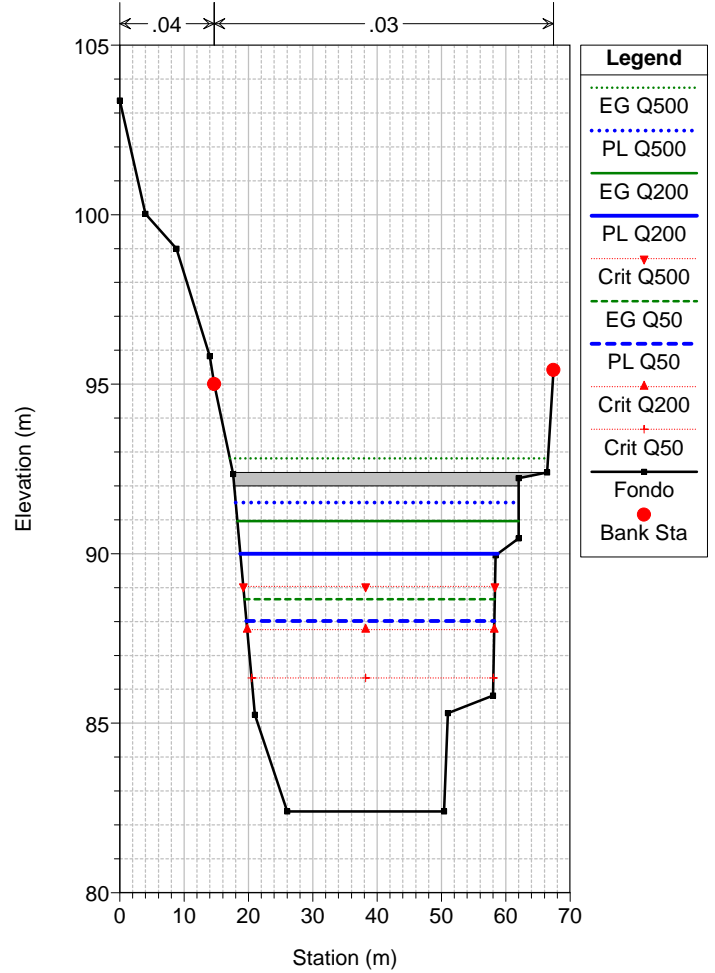
Torrente Lavagna Plan: 01_sett14
LAV-102



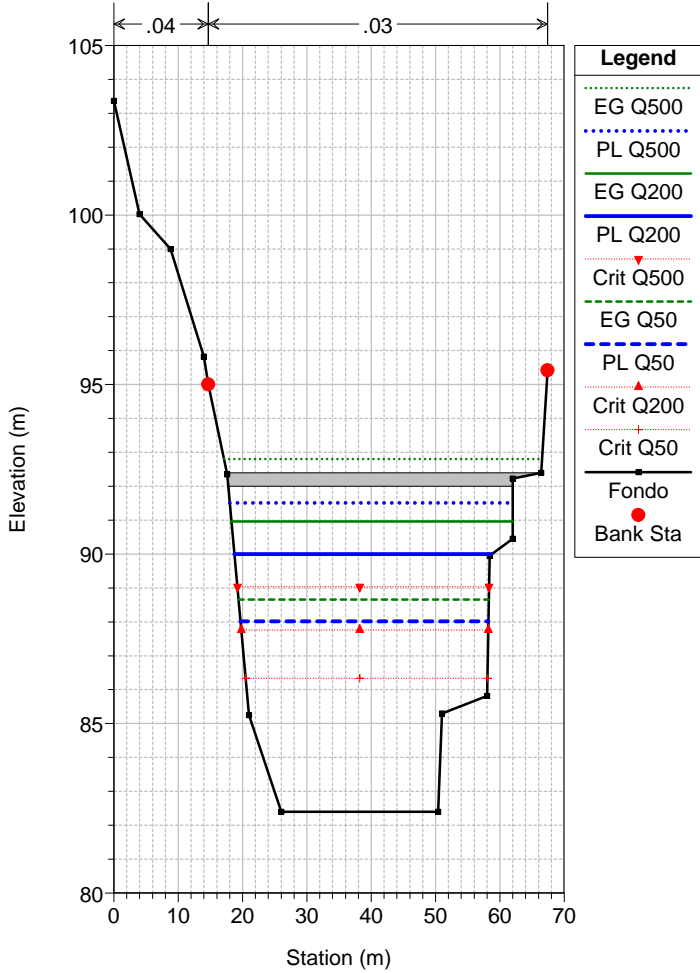
Torrente Lavagna Plan: 01_sett14
LAV-102



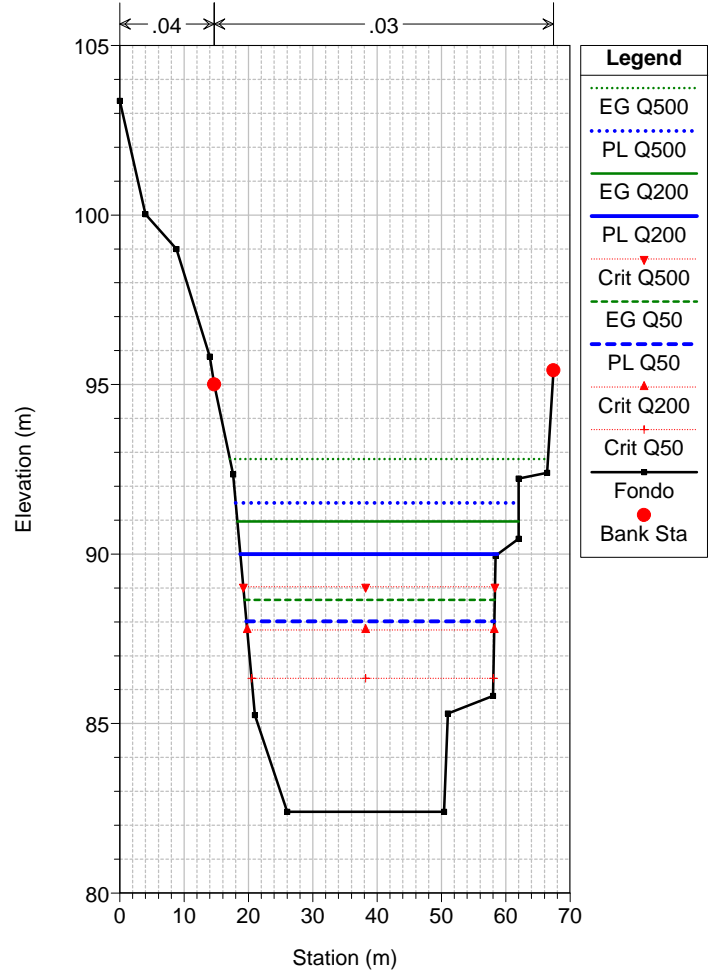
Torrente Lavagna Plan: 01_sett14
LAV-PT13



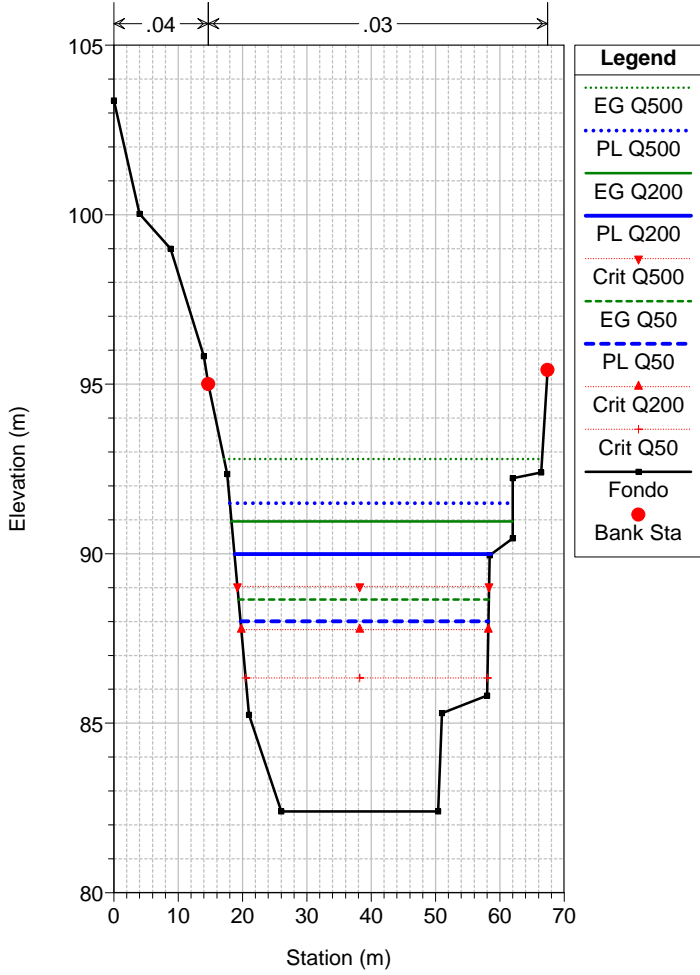
Torrente Lavagna Plan: 01_sett14
LAV-PT13



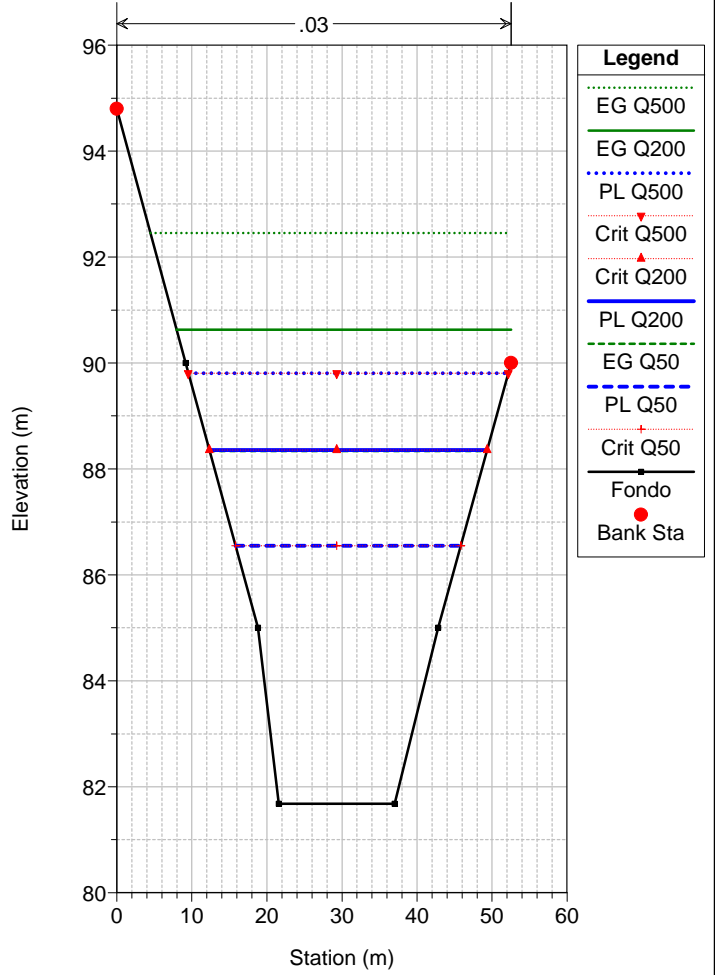
Torrente Lavagna Plan: 01_sett14
LAV-102



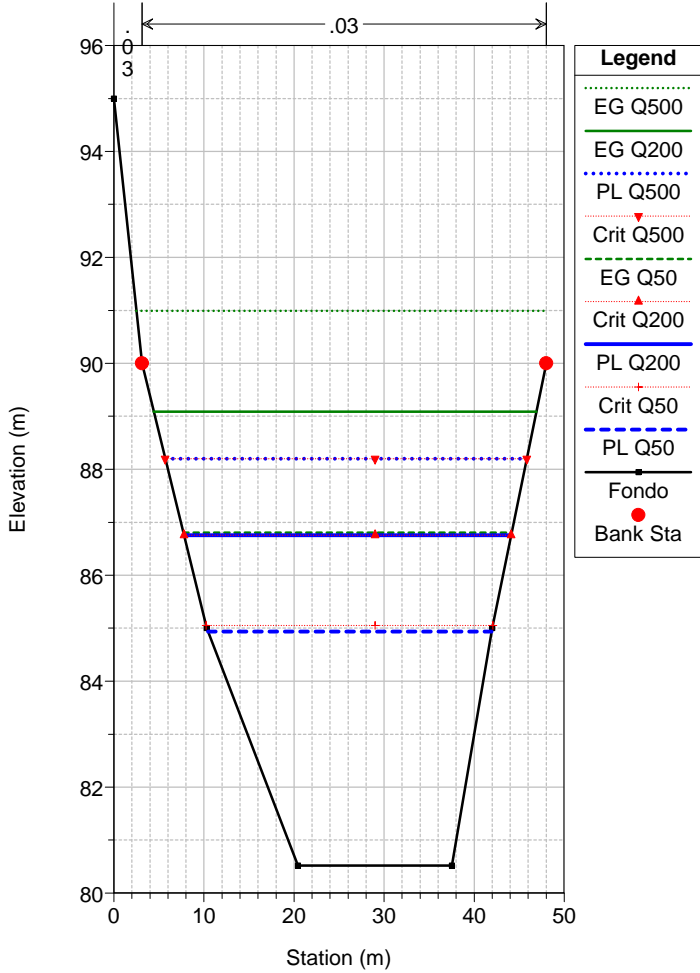
Torrente Lavagna Plan: 01_sett14
LAV-102



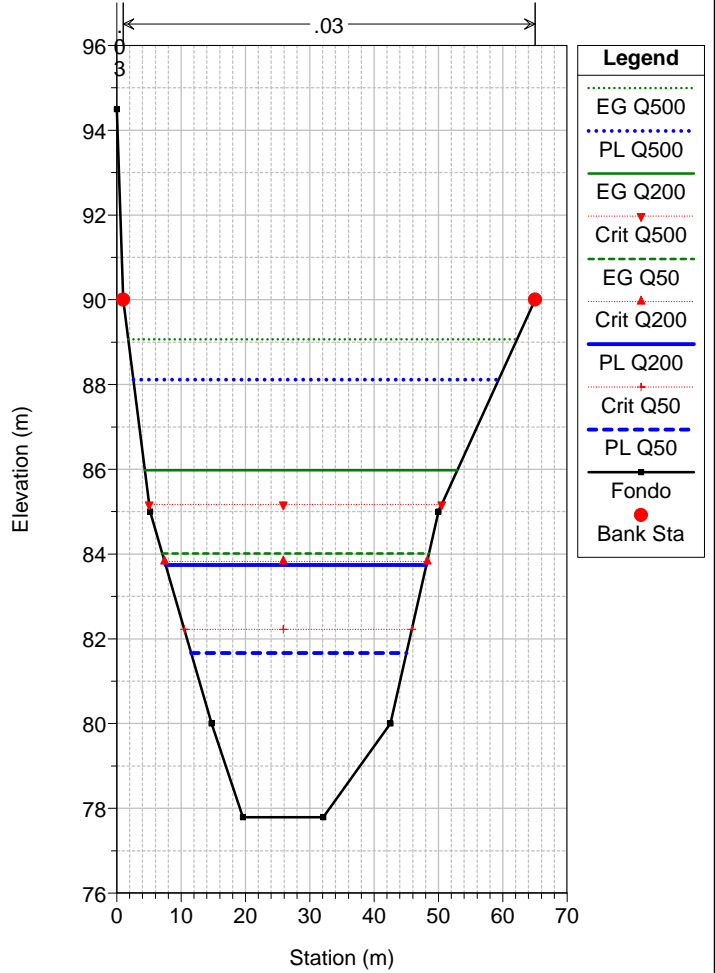
Torrente Lavagna Plan: 01_sett14
LAV-101



Torrente Lavagna Plan: 01_sett14
LAV-100

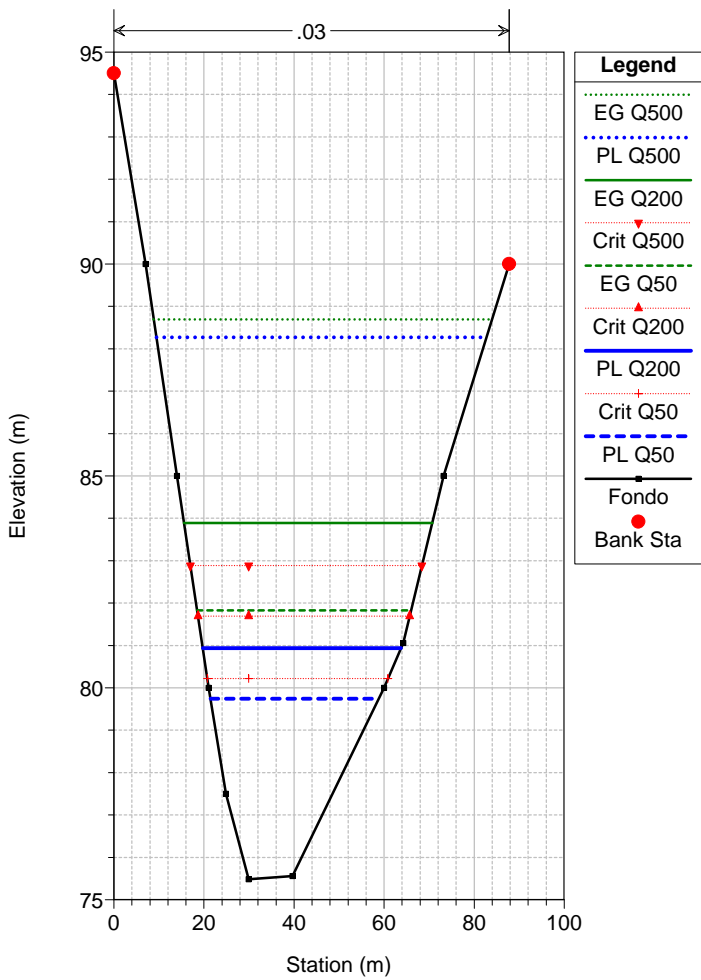


Torrente Lavagna Plan: 01_sett14
LAV-99



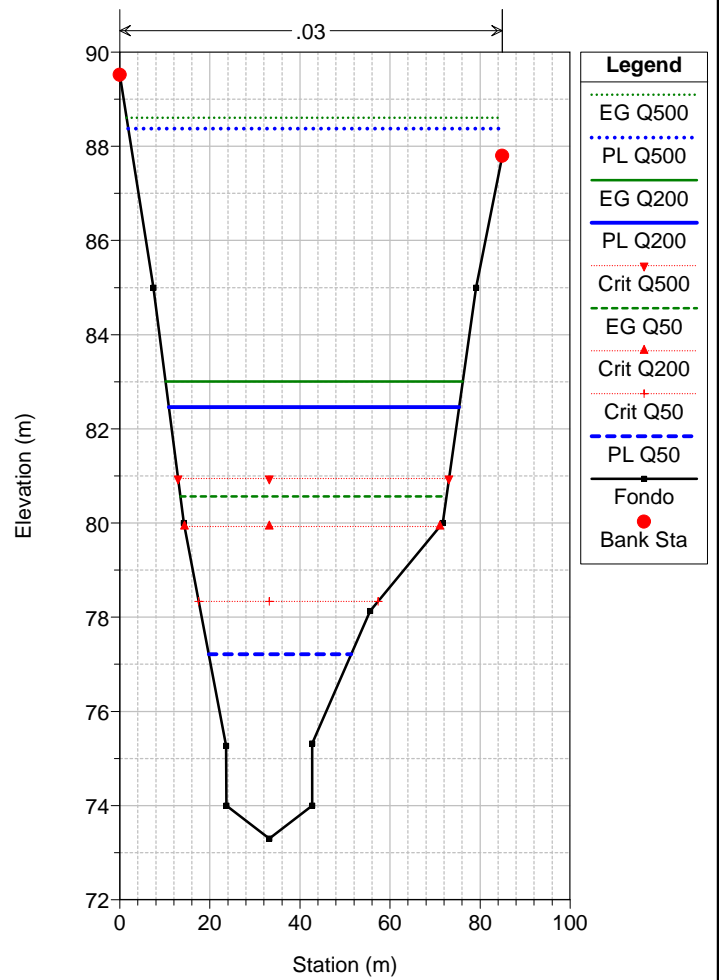
Torrente Lavagna Plan: 01_sett14

LAV-98



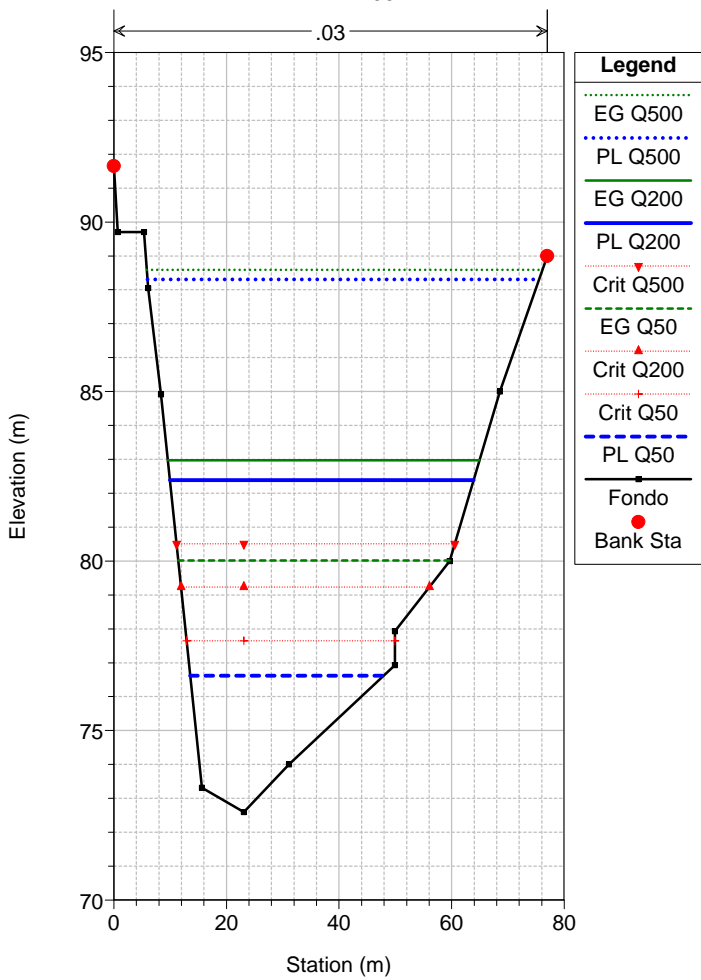
Torrente Lavagna Plan: 01_sett14

LAV-97



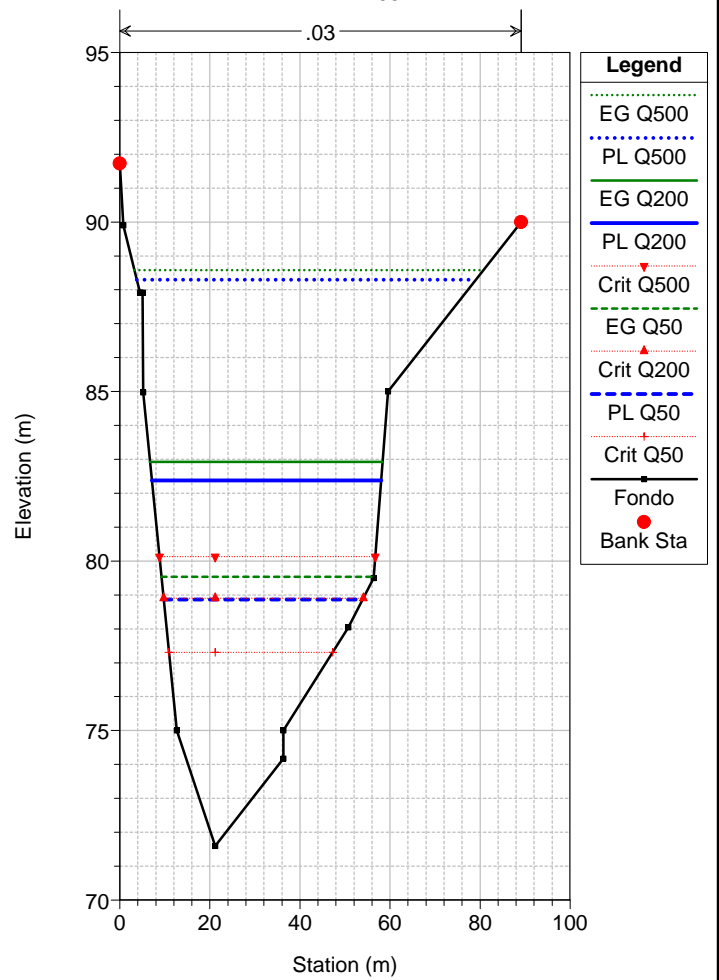
Torrente Lavagna Plan: 01_sett14

LAV-96



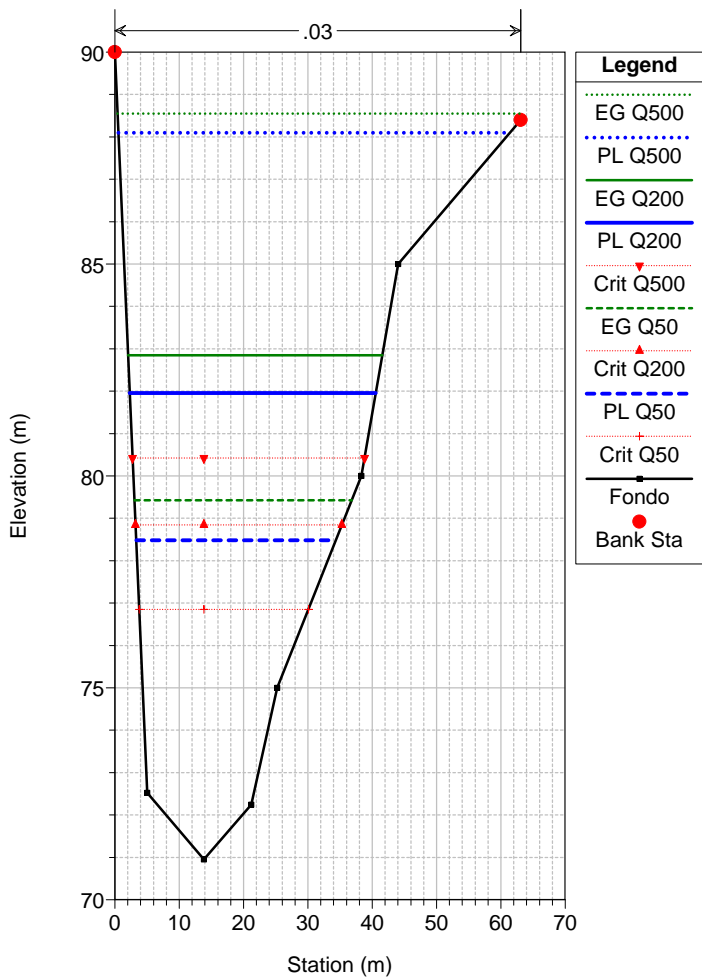
Torrente Lavagna Plan: 01_sett14

LAV-95



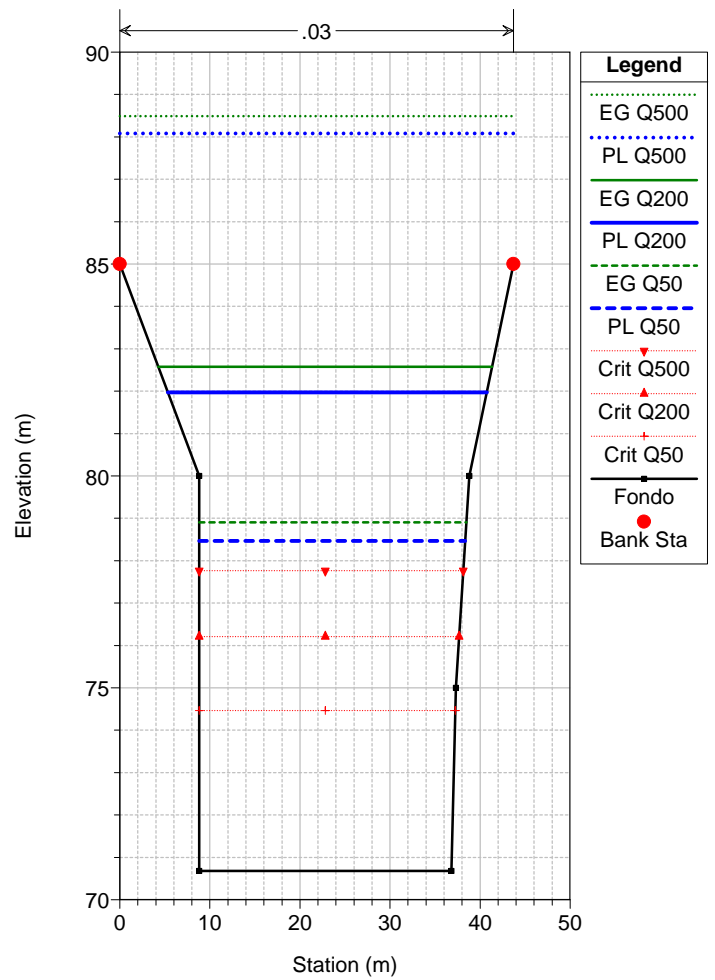
Torrente Lavagna Plan: 01_sett14

LAV-94



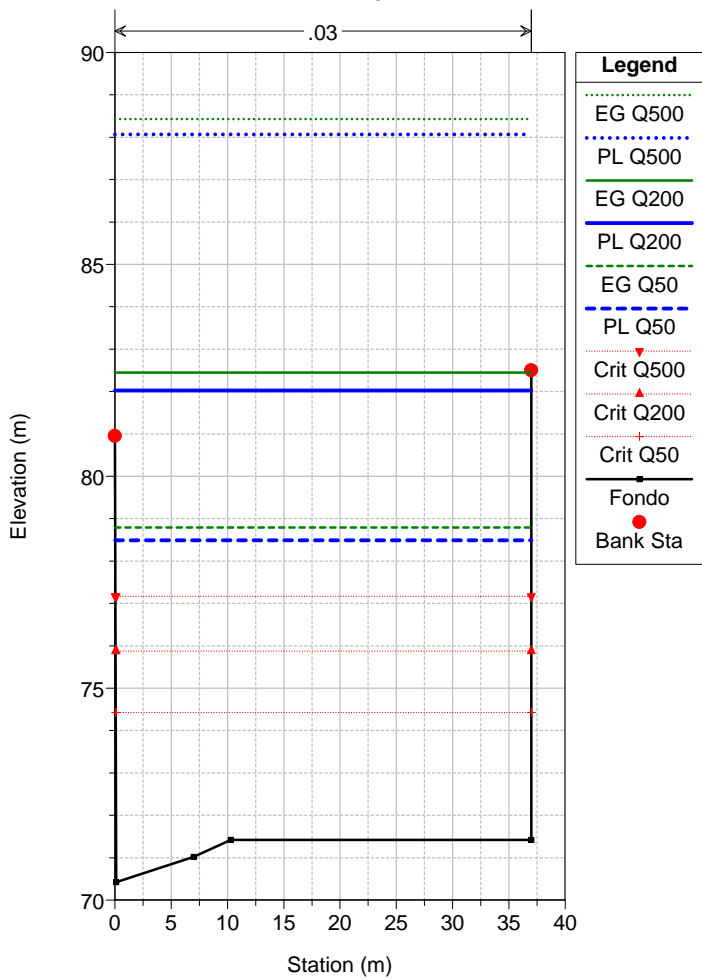
Torrente Lavagna Plan: 01_sett14

LAV-93



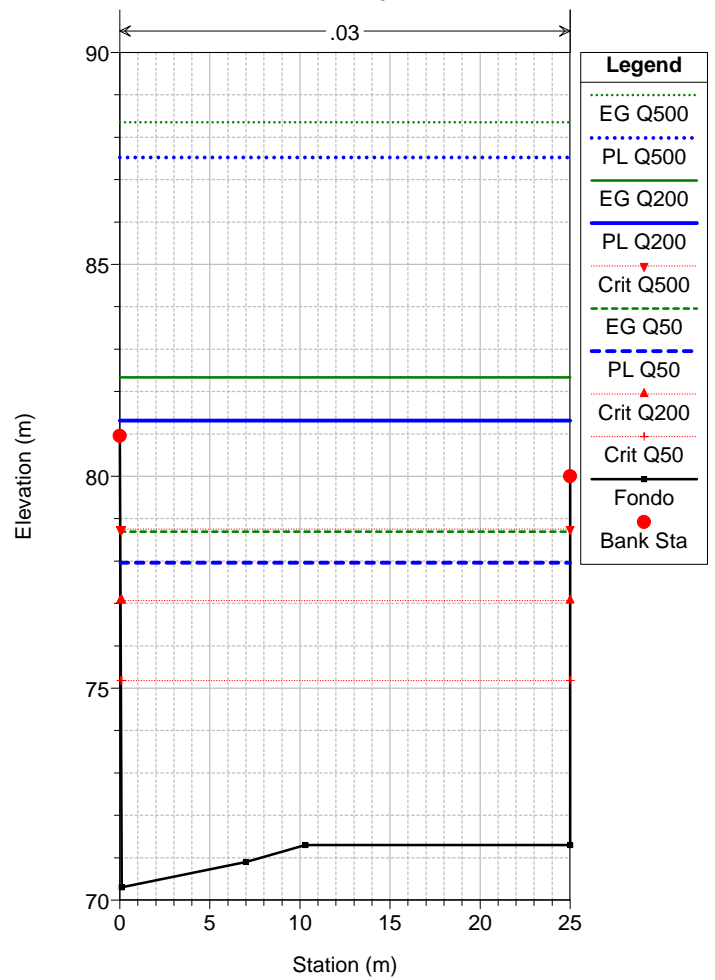
Torrente Lavagna Plan: 01_sett14

LAV-92

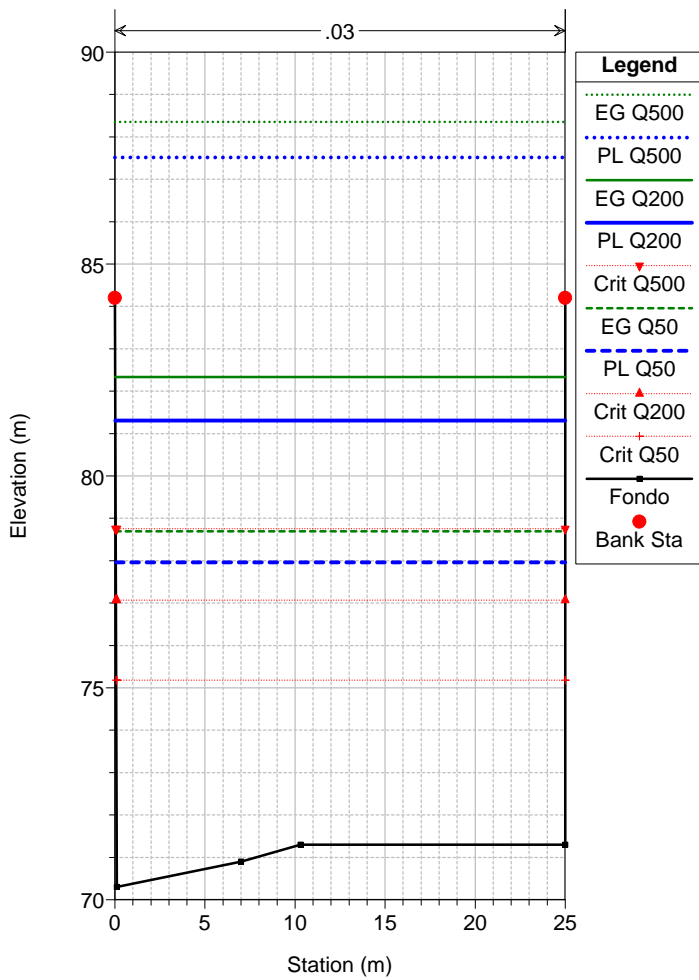


Torrente Lavagna Plan: 01_sett14

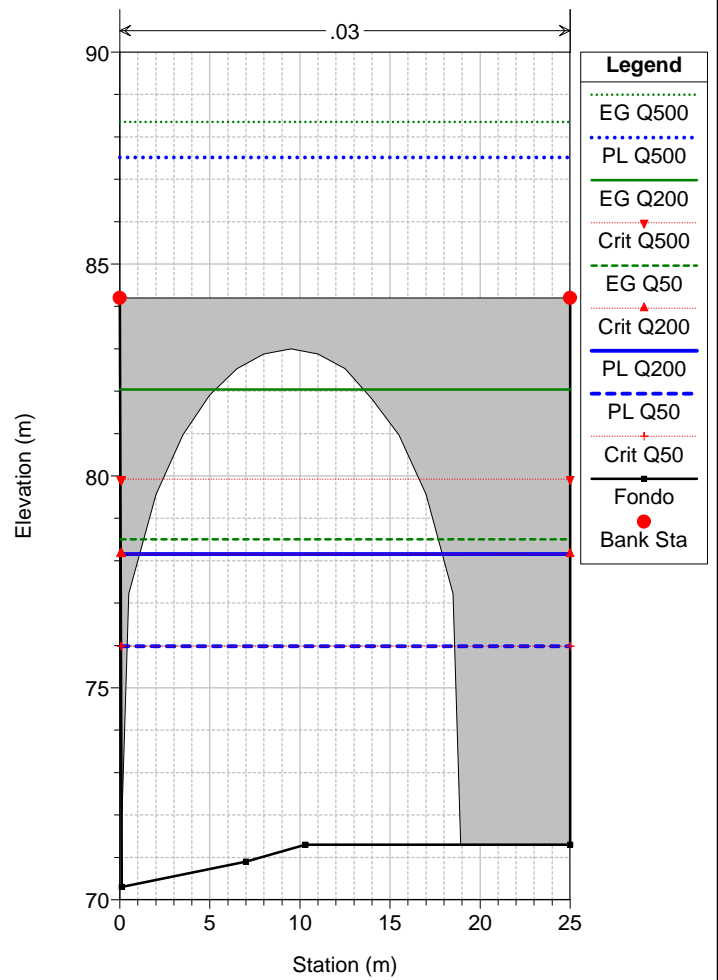
LAV-91



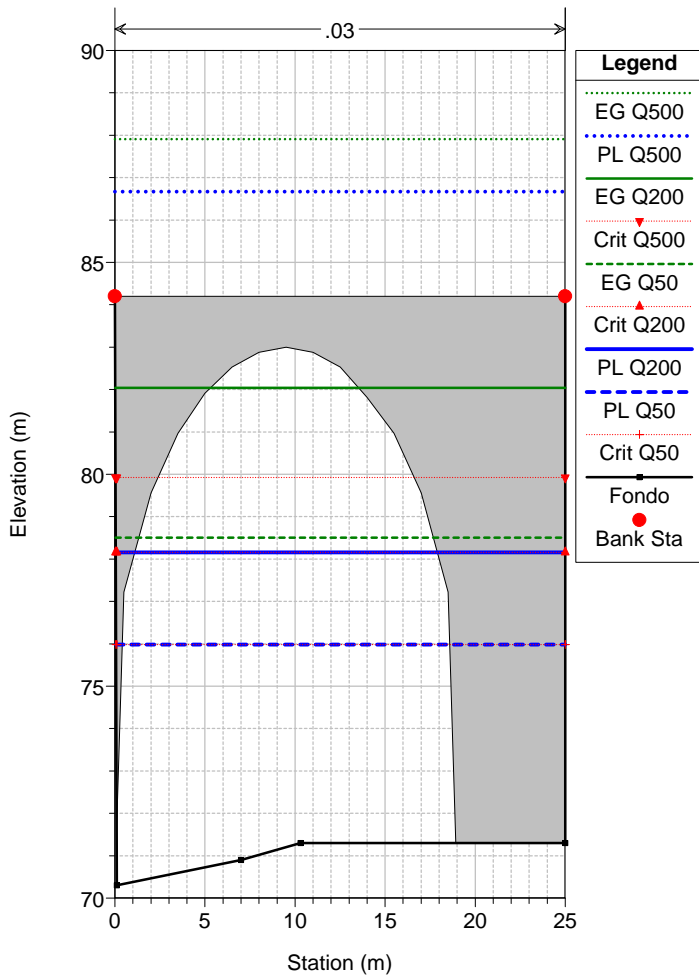
Torrente Lavagna Plan: 01_sett14
LAV-91



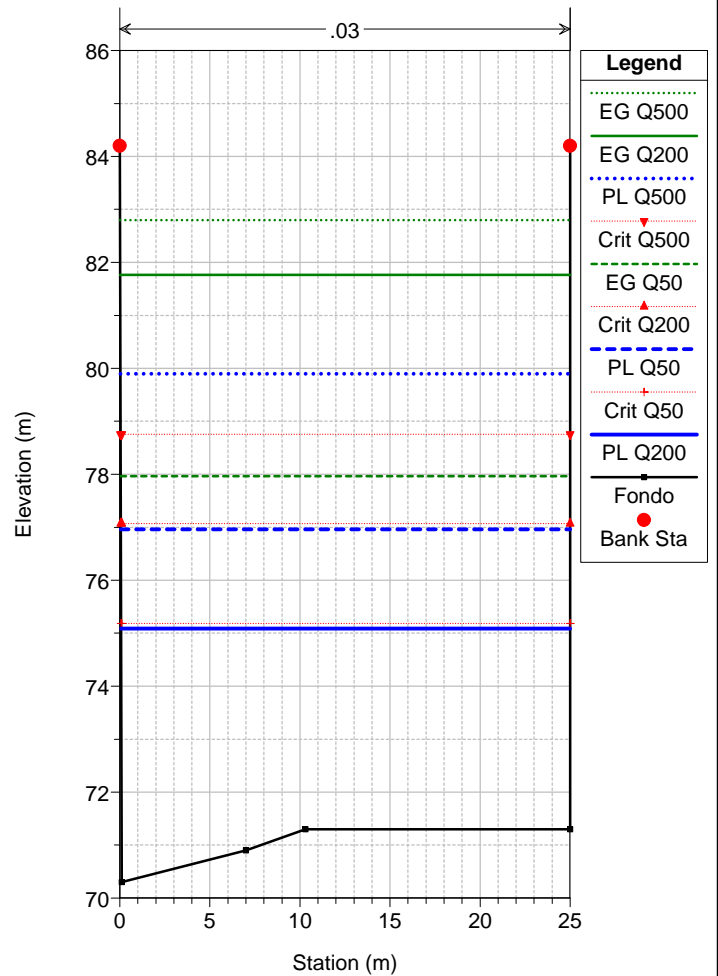
Torrente Lavagna Plan: 01_sett14
LAV-PT12



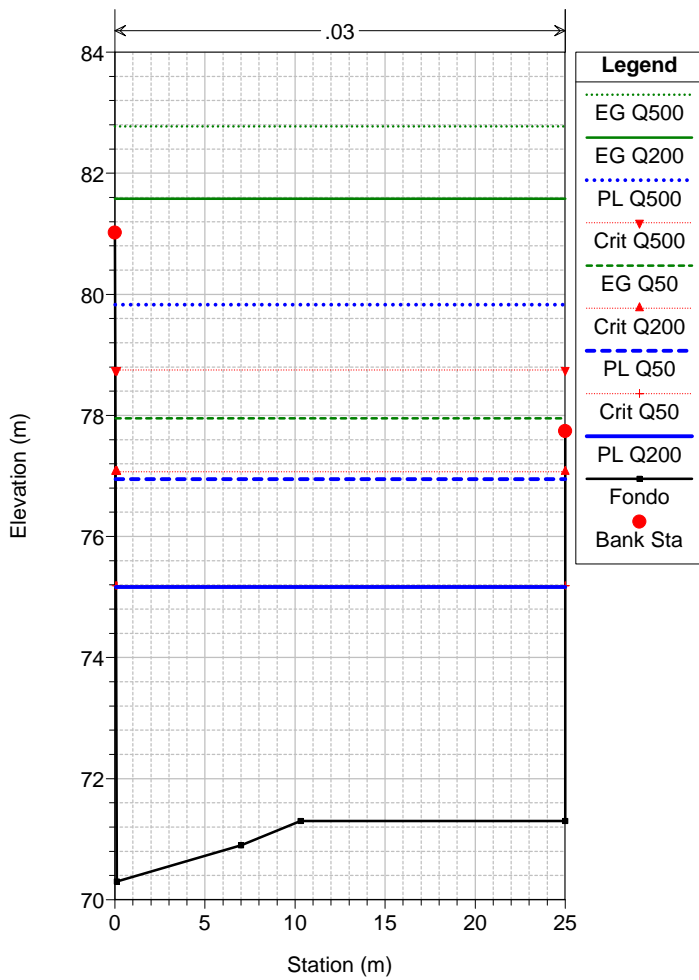
Torrente Lavagna Plan: 01_sett14
LAV-PT12



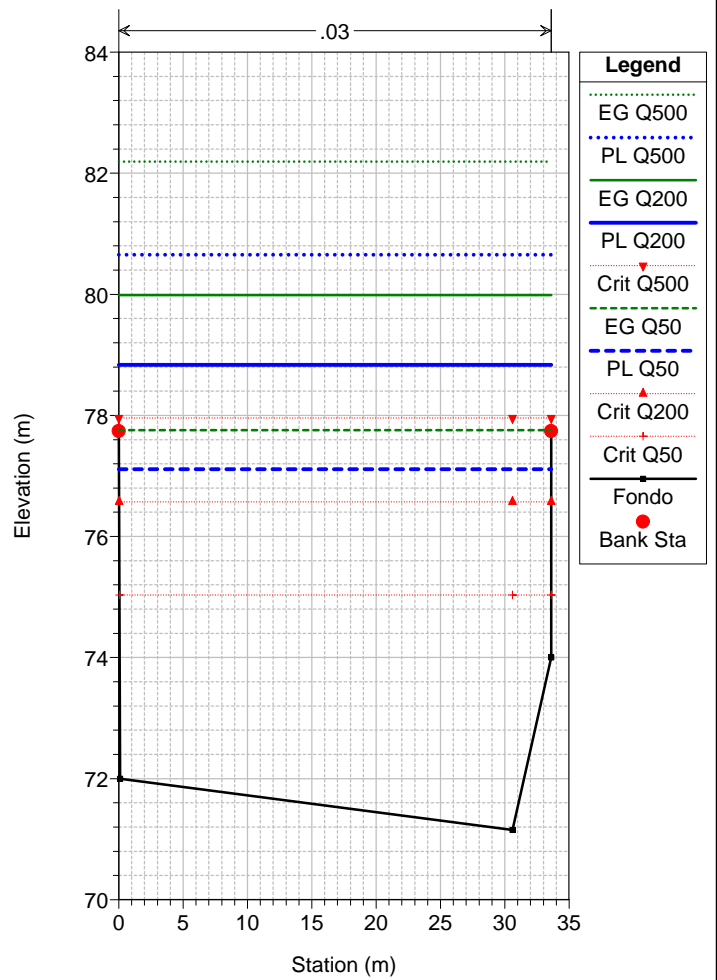
Torrente Lavagna Plan: 01_sett14
LAV-91



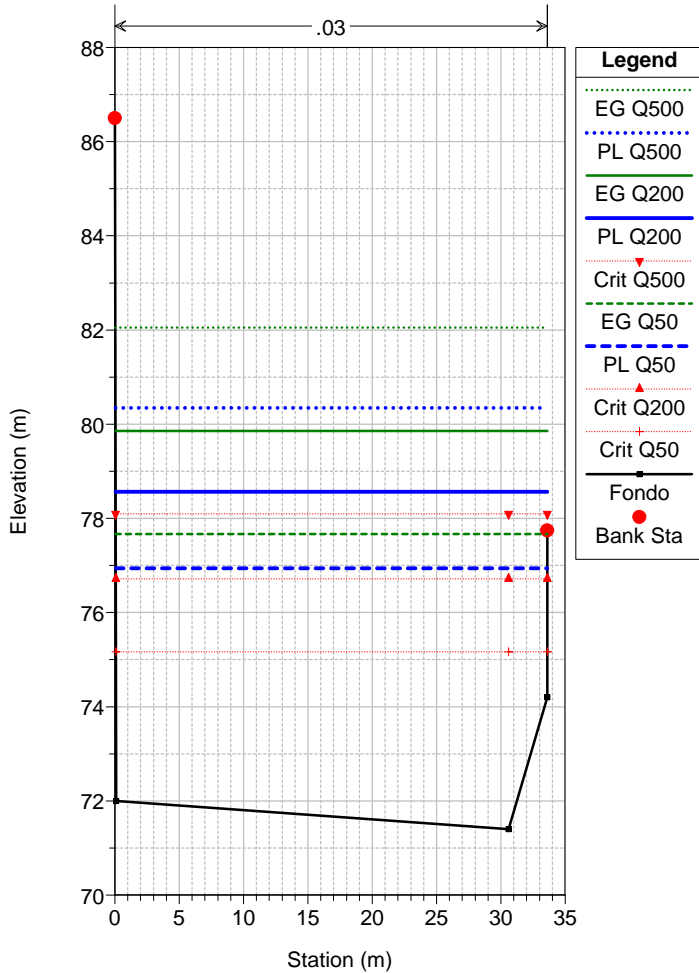
Torrente Lavagna Plan: 01_sett14
LAV-91



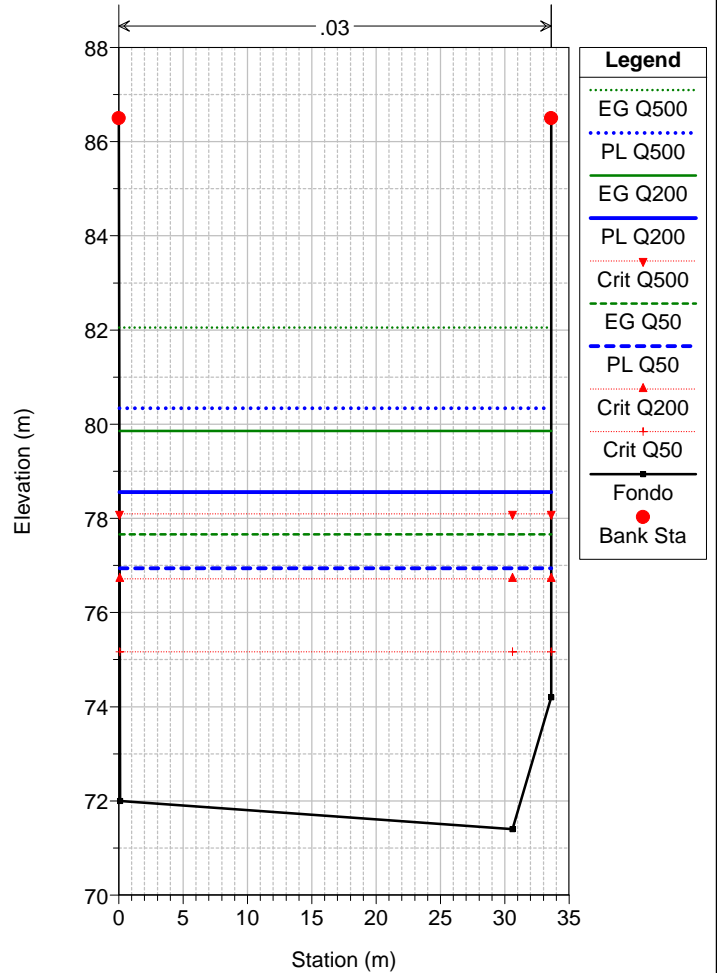
Torrente Lavagna Plan: 01_sett14
LAV-90

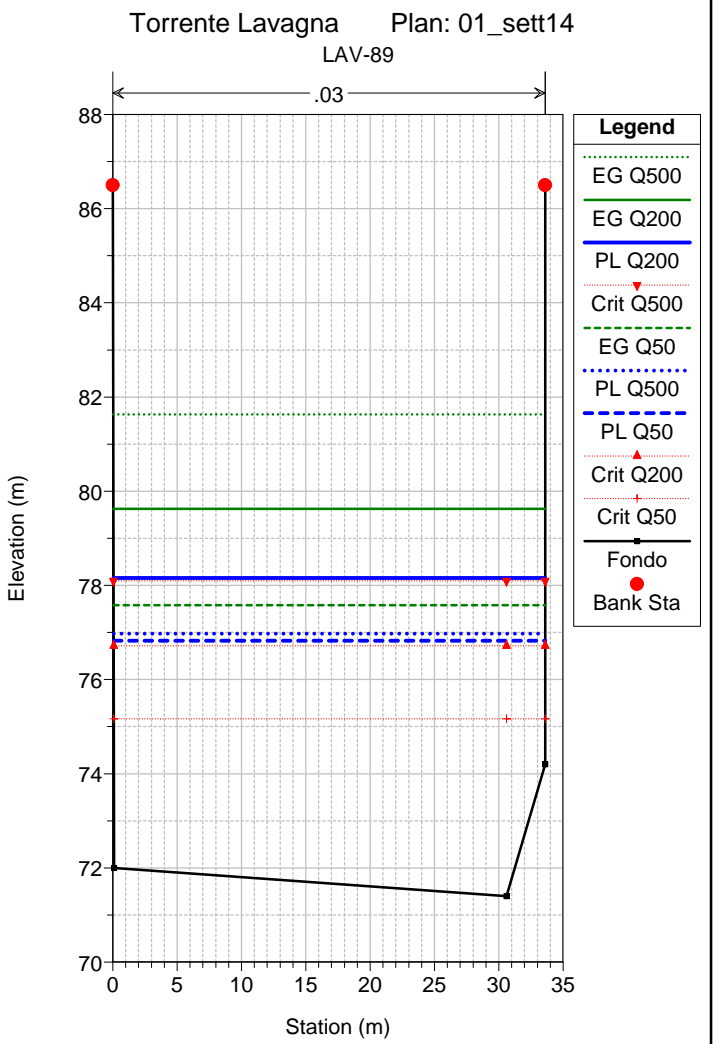
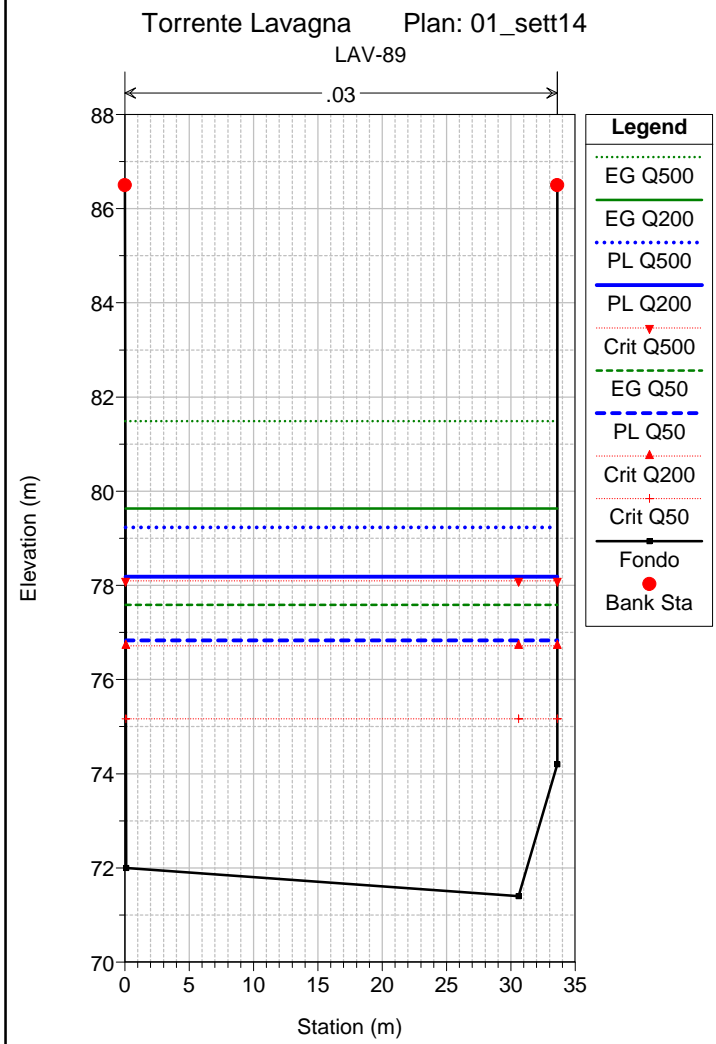
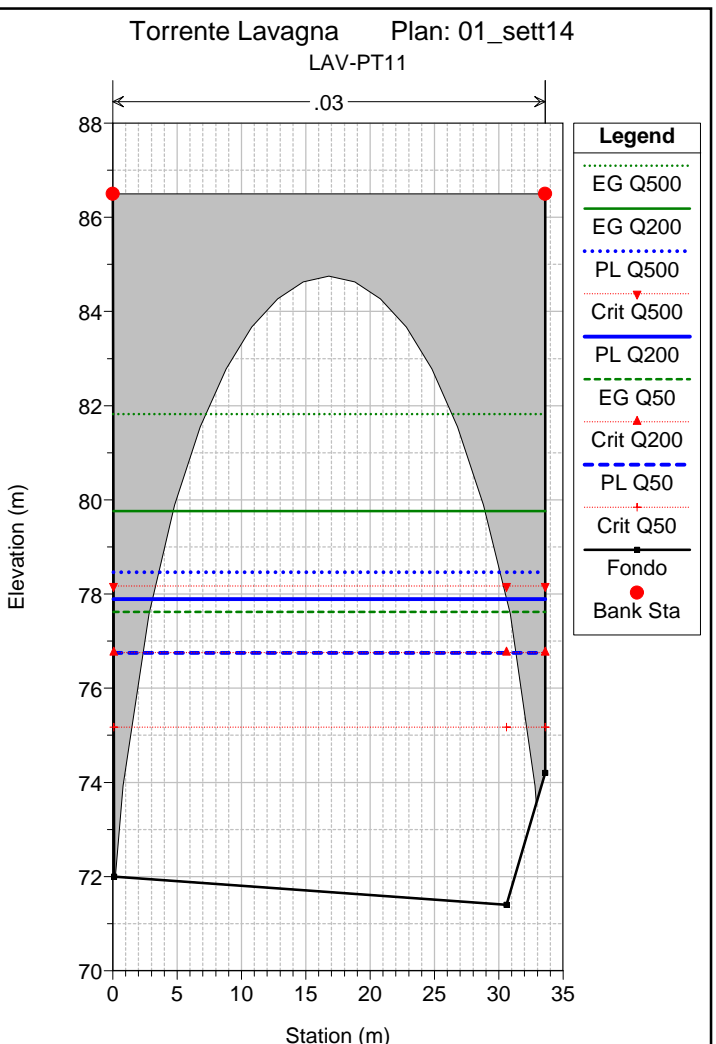
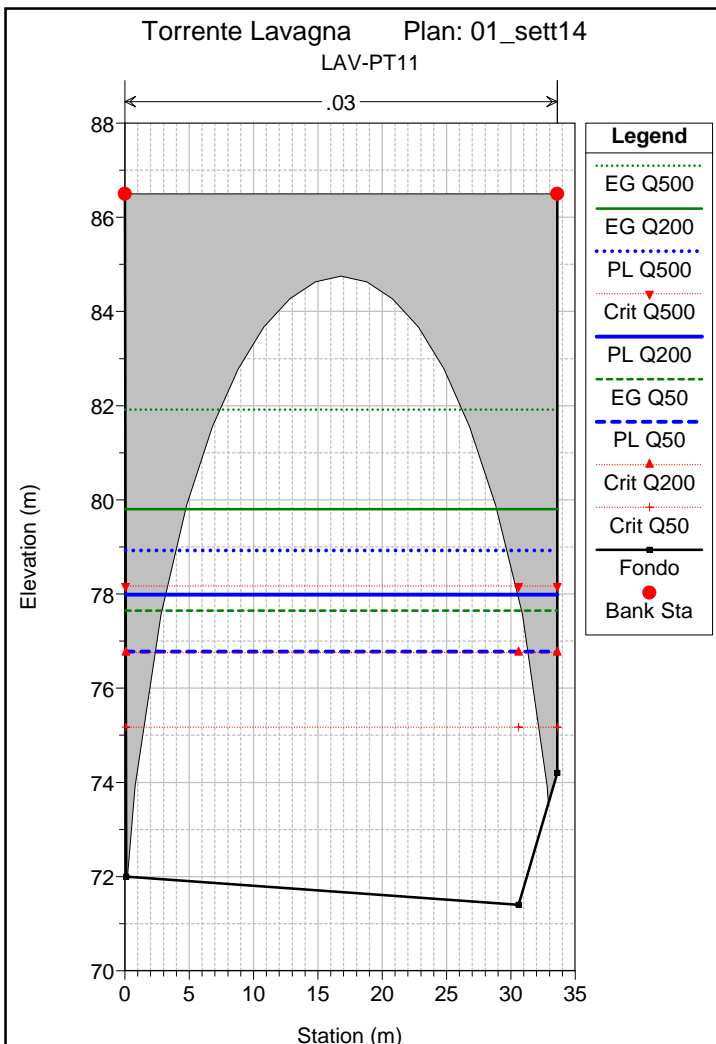


Torrente Lavagna Plan: 01_sett14
LAV-89



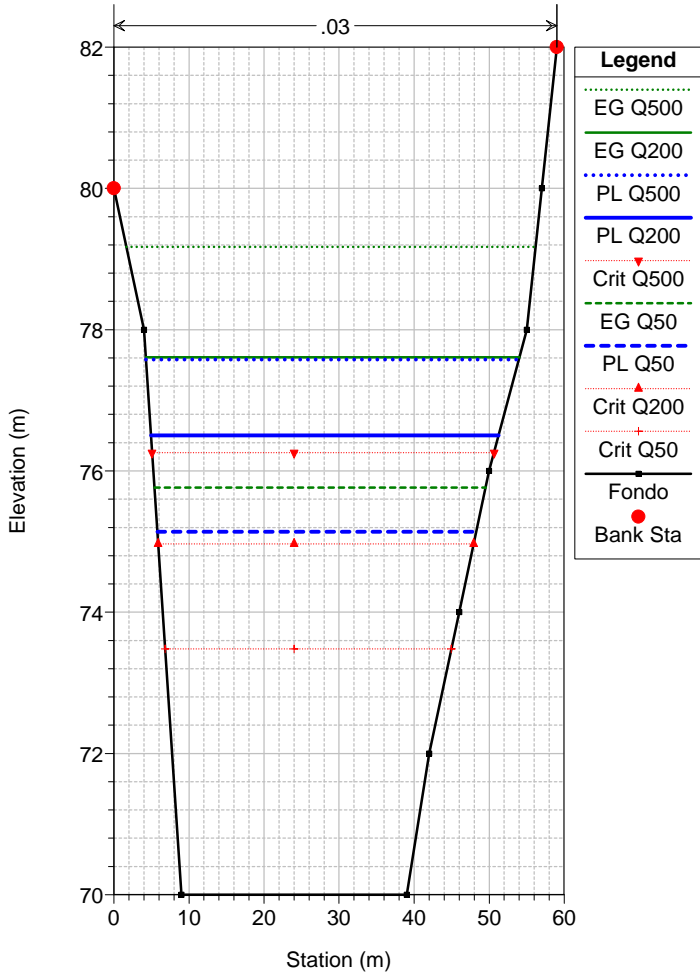
Torrente Lavagna Plan: 01_sett14
LAV-89





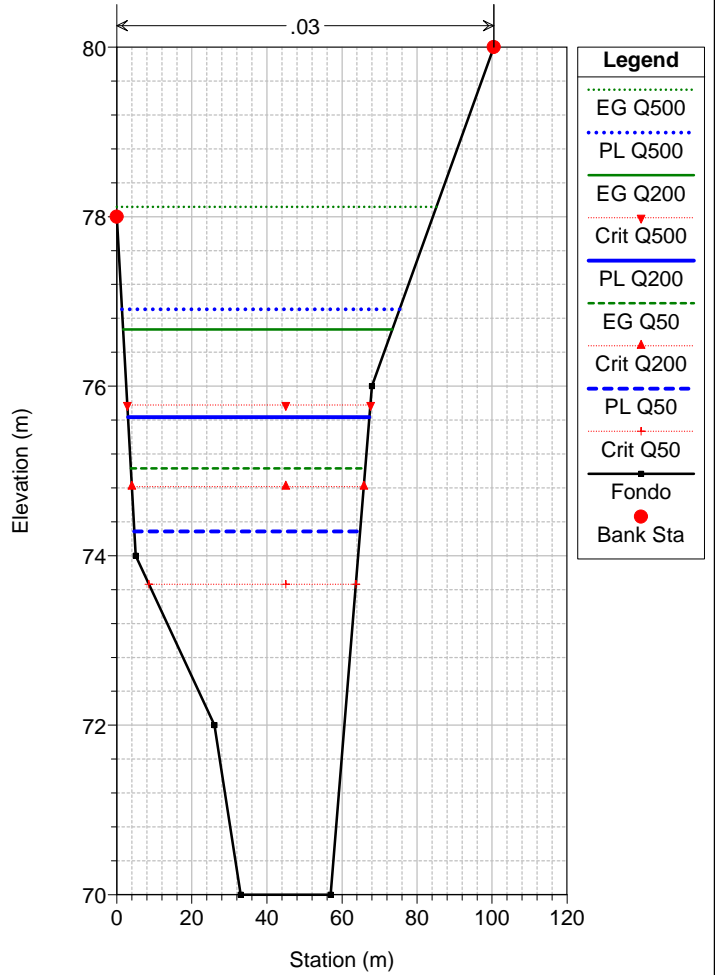
Torrente Lavagna Plan: 01_sett14

LAV-88



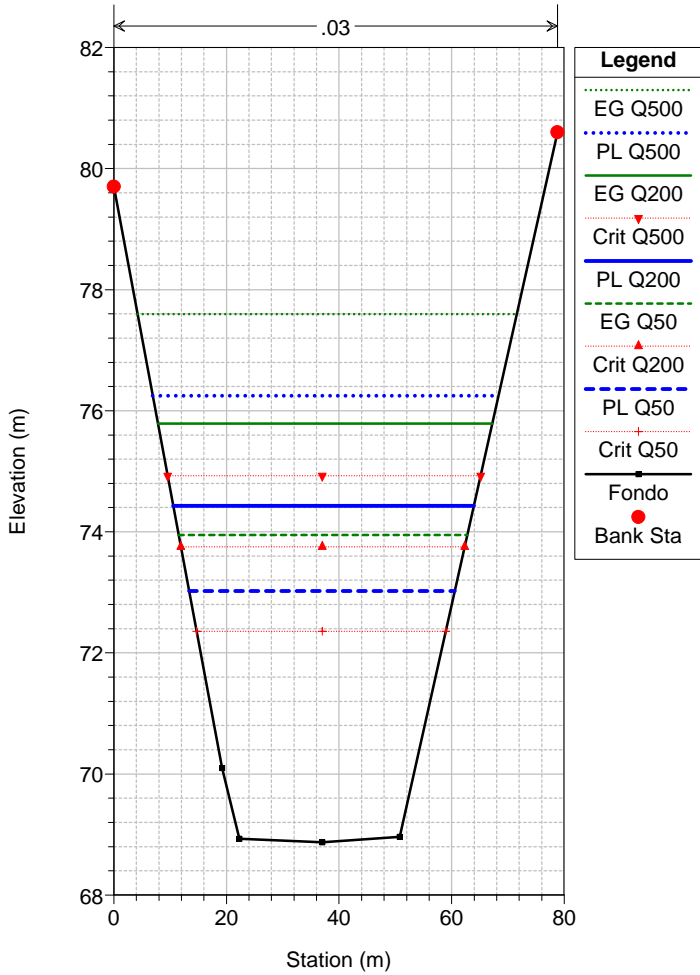
Torrente Lavagna Plan: 01_sett14

LAV-87



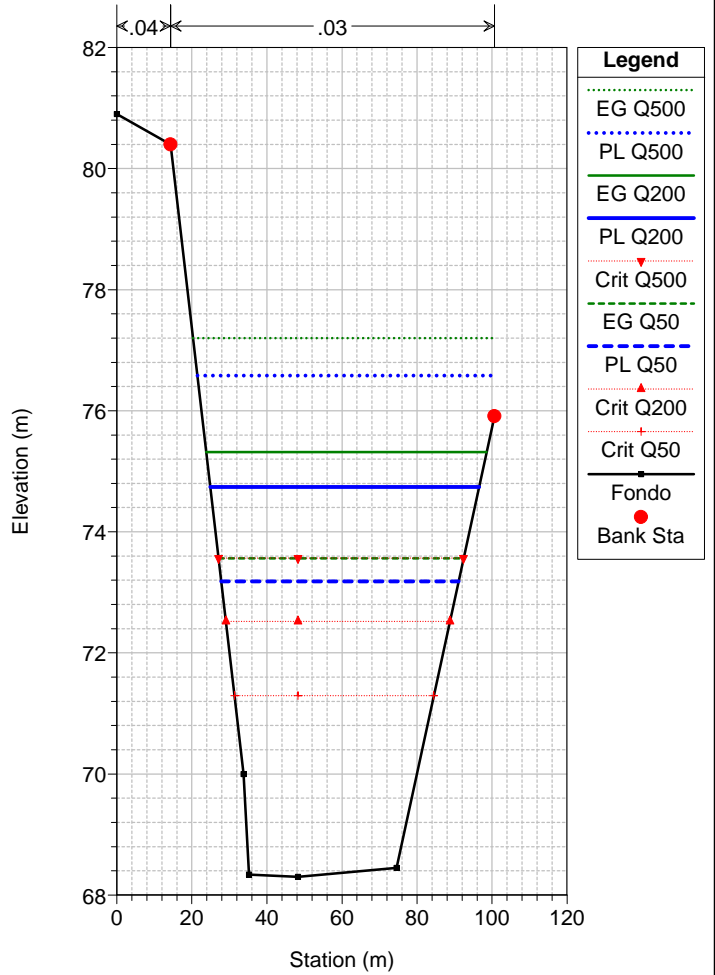
Torrente Lavagna Plan: 01_sett14

LAV-86



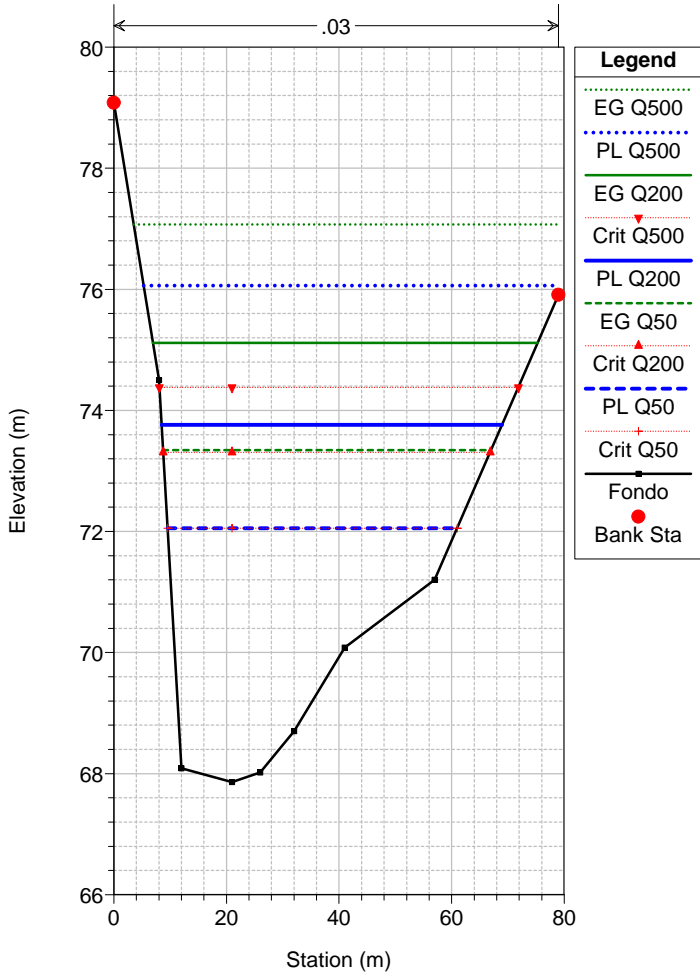
Torrente Lavagna Plan: 01_sett14

LAV-85



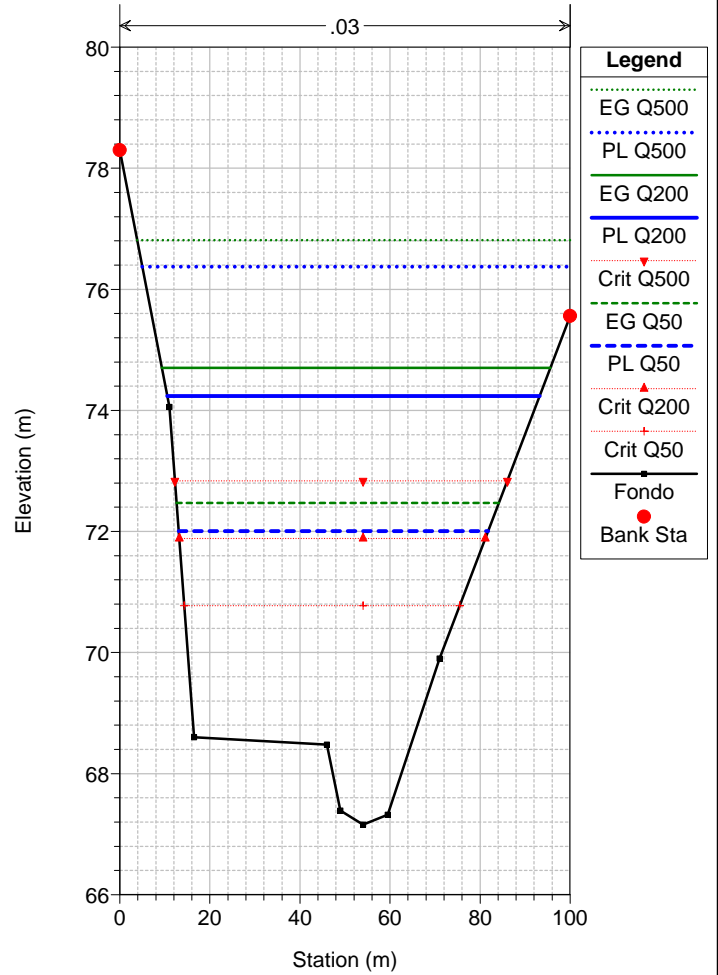
Torrente Lavagna Plan: 01_sett14

LAV-84



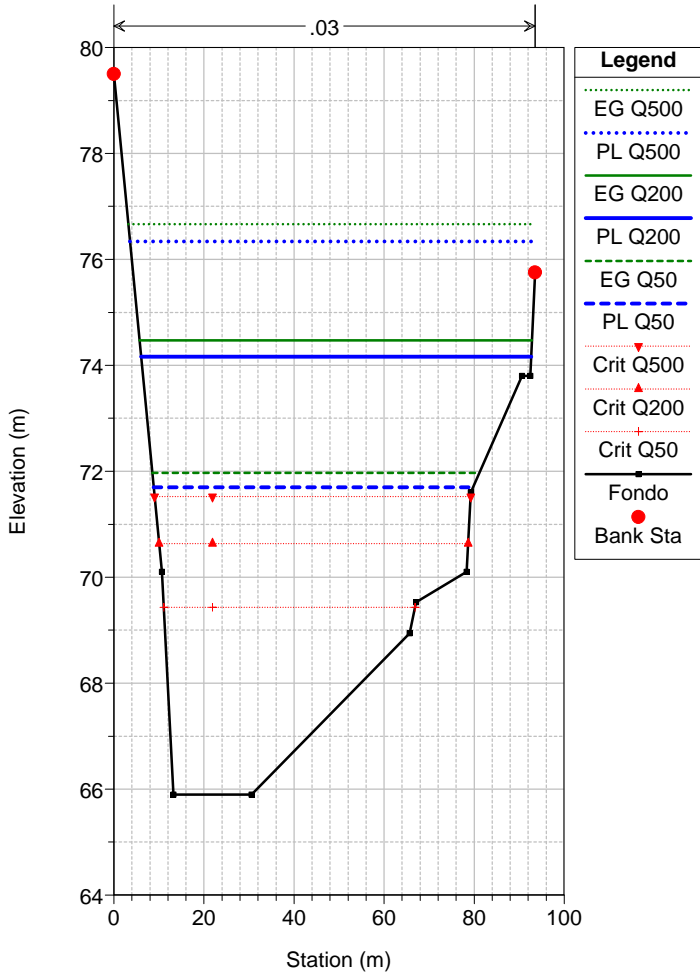
Torrente Lavagna Plan: 01_sett14

LAV-83



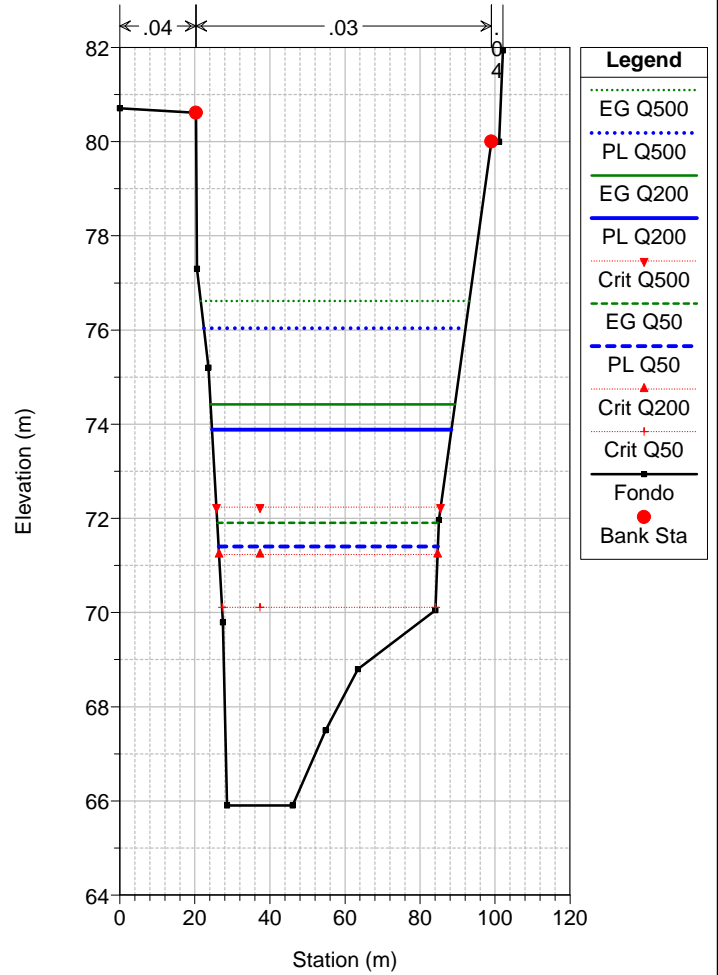
Torrente Lavagna Plan: 01_sett14

LAV-82



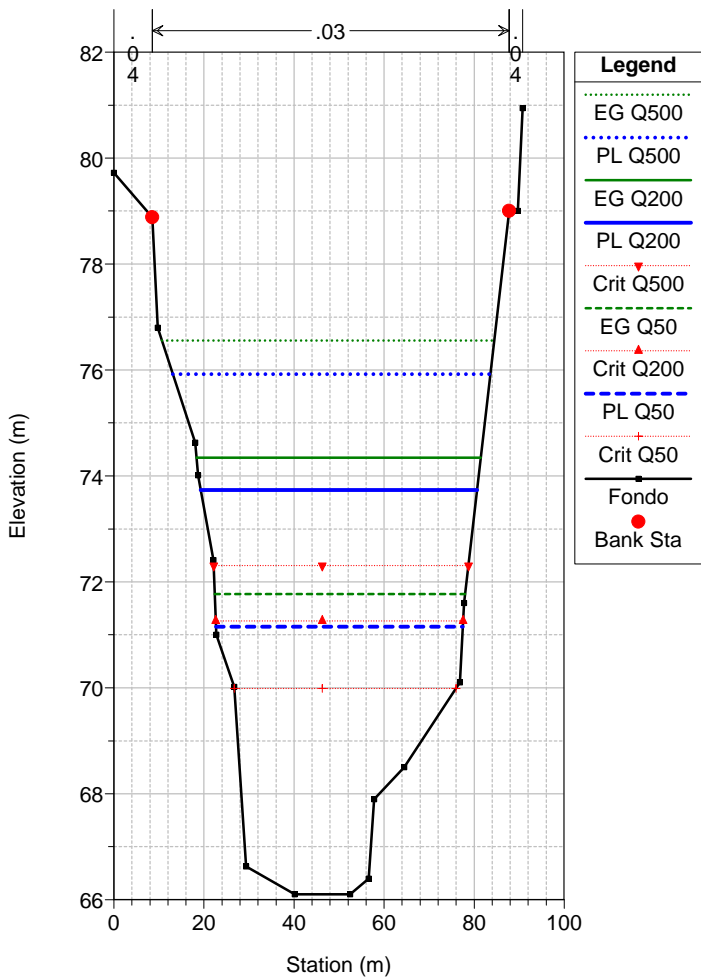
Torrente Lavagna Plan: 01_sett14

LAV-81



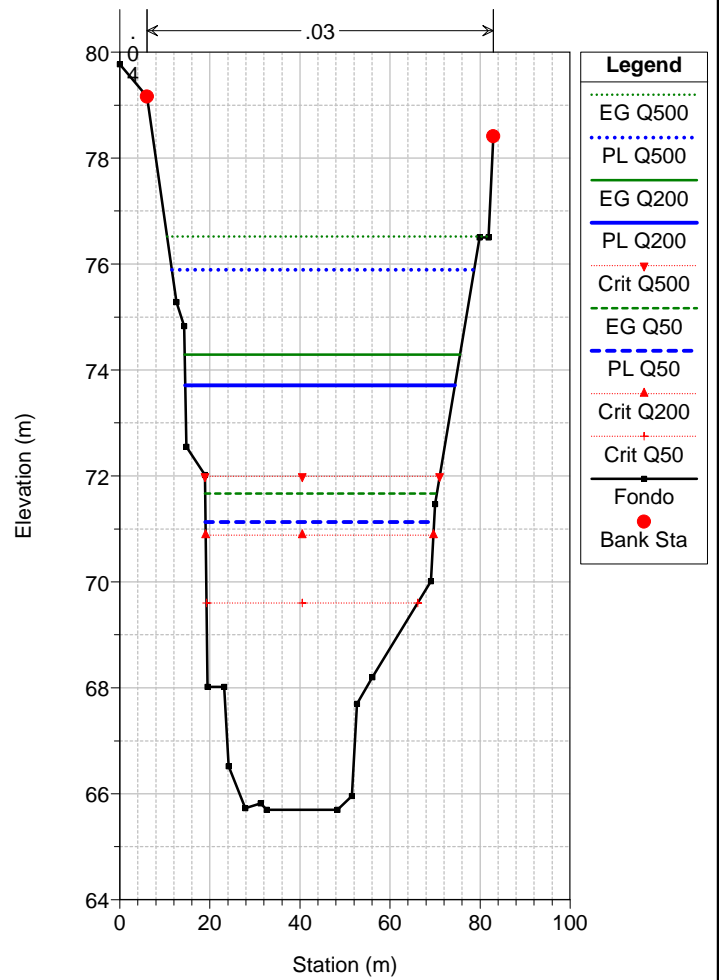
Torrente Lavagna Plan: 01_sett14

LAV-80



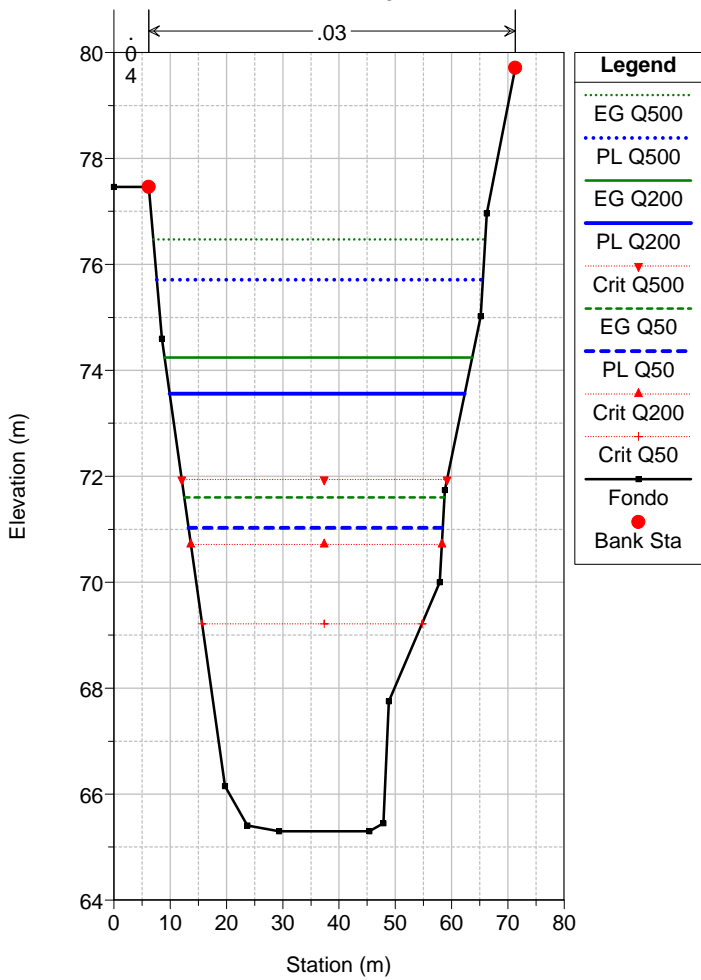
Torrente Lavagna Plan: 01_sett14

LAV-79



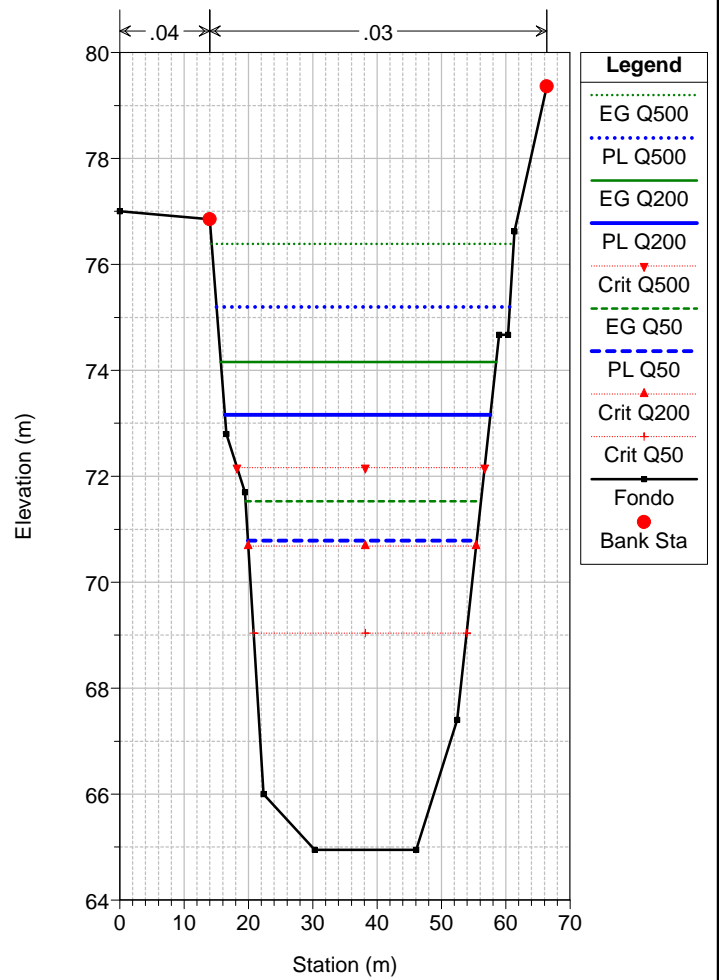
Torrente Lavagna Plan: 01_sett14

LAV-78

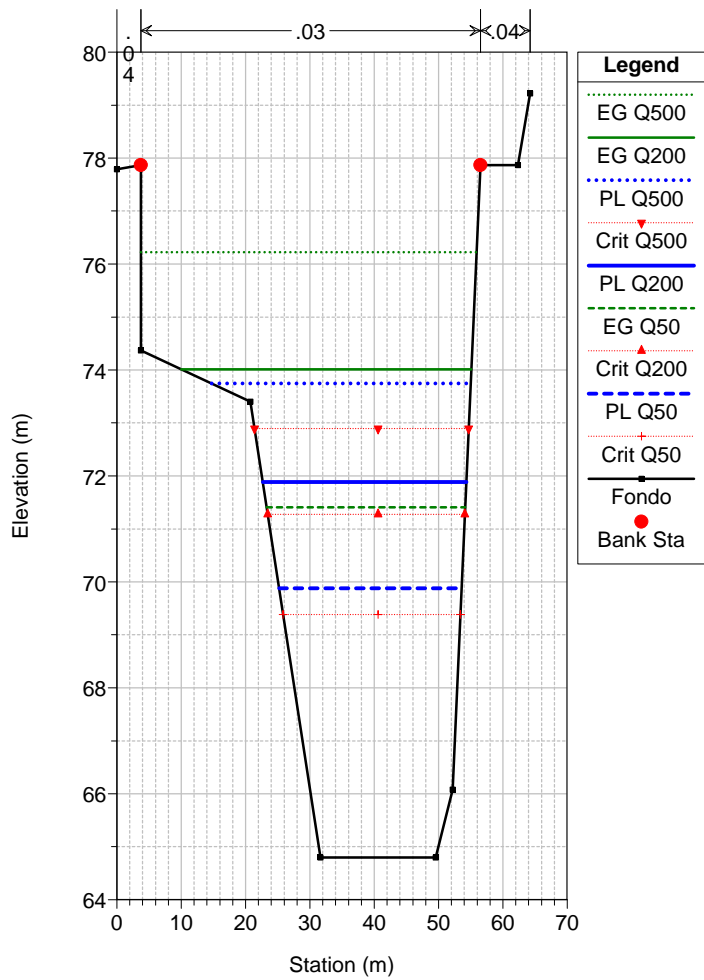


Torrente Lavagna Plan: 01_sett14

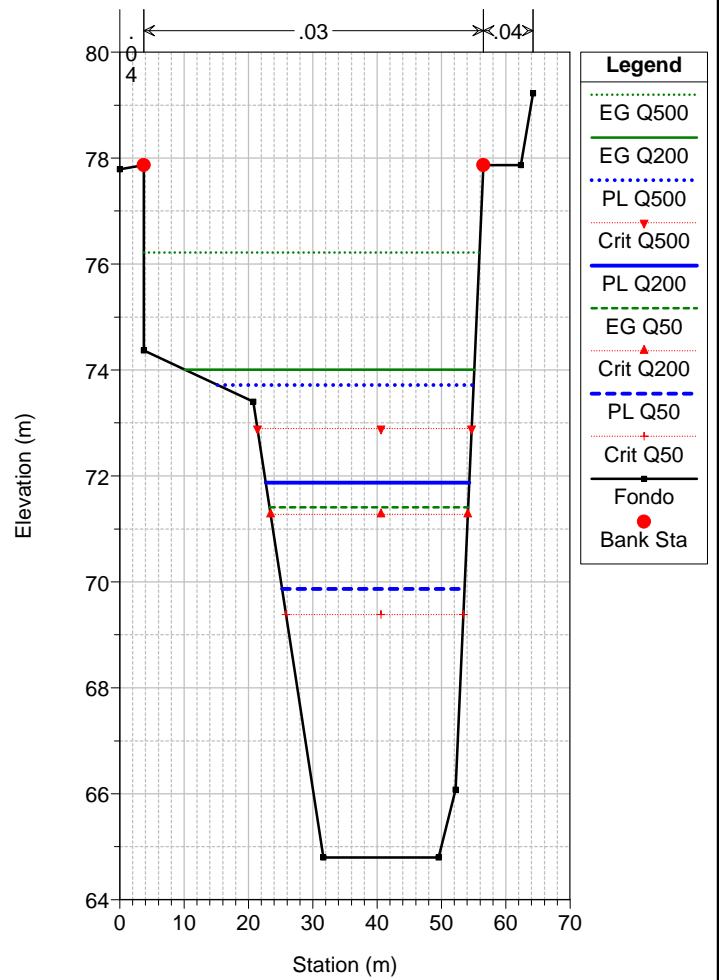
LAV-77



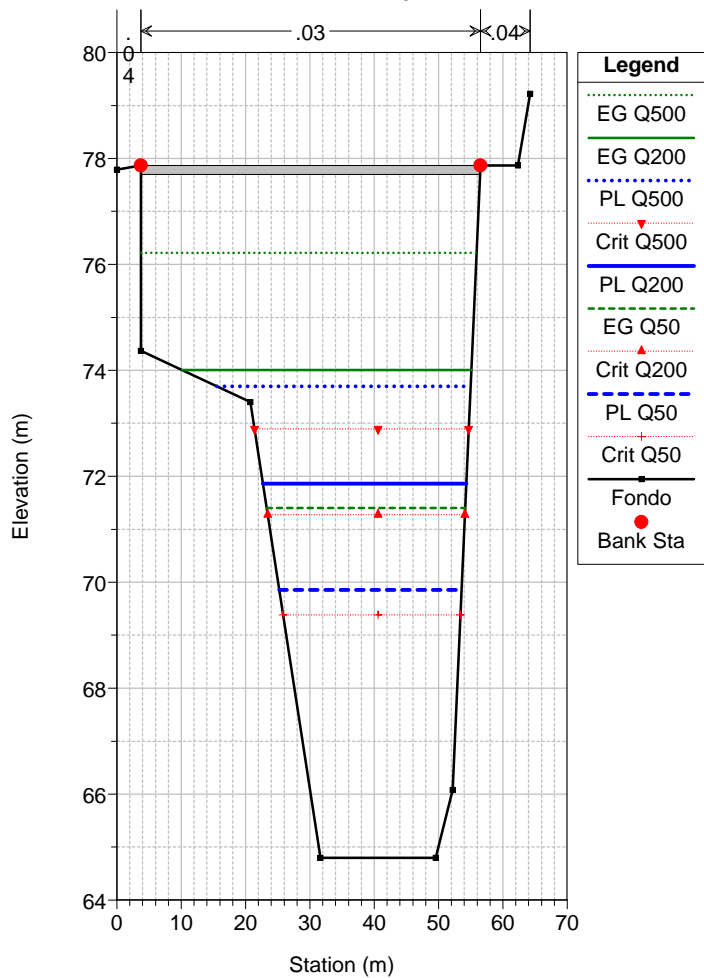
Torrente Lavagna Plan: 01_sett14
LAV-76



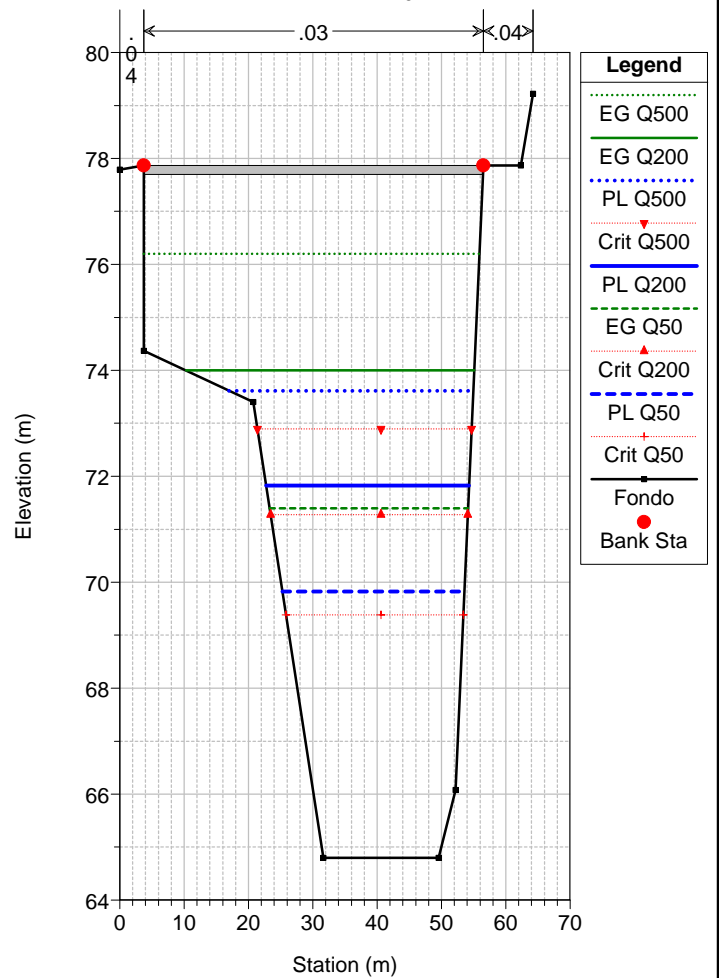
Torrente Lavagna Plan: 01_sett14
LAV-76



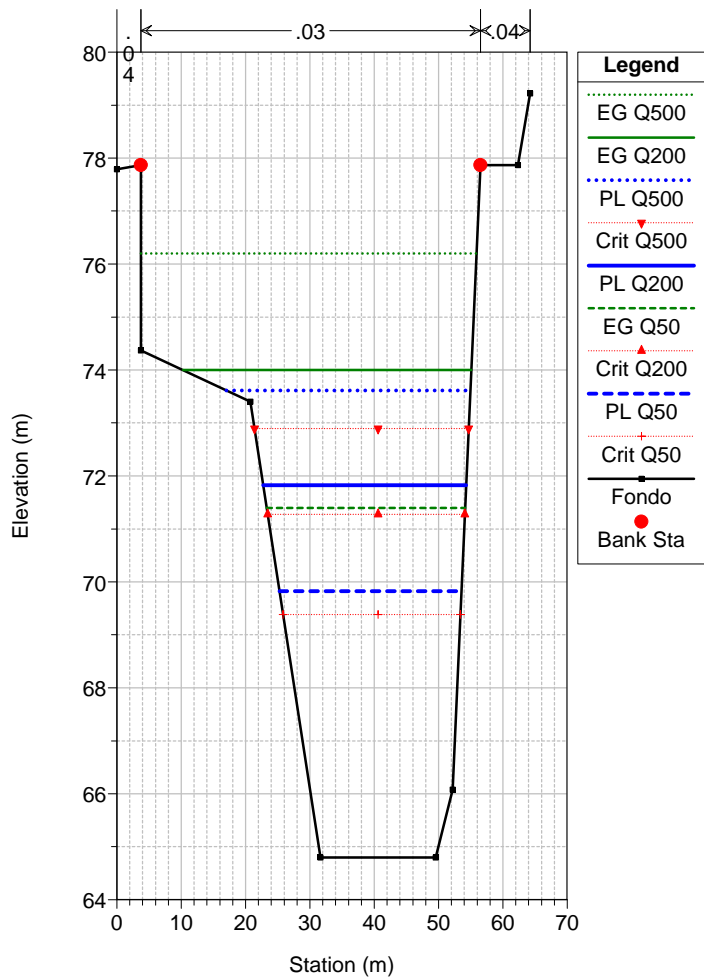
Torrente Lavagna Plan: 01_sett14
LAV-PT10



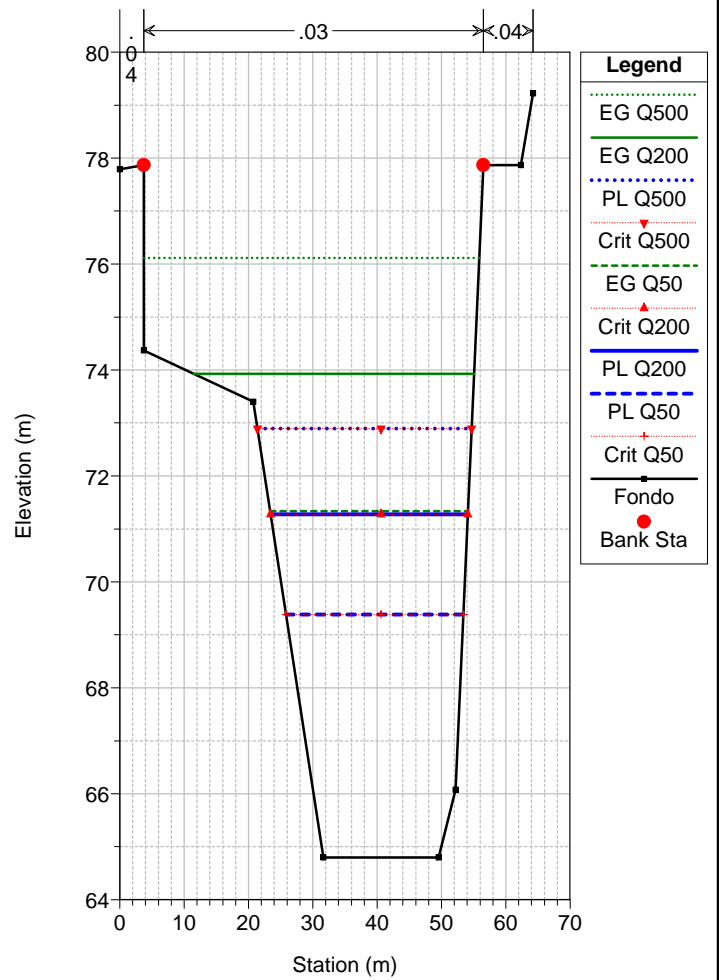
Torrente Lavagna Plan: 01_sett14
LAV-PT10



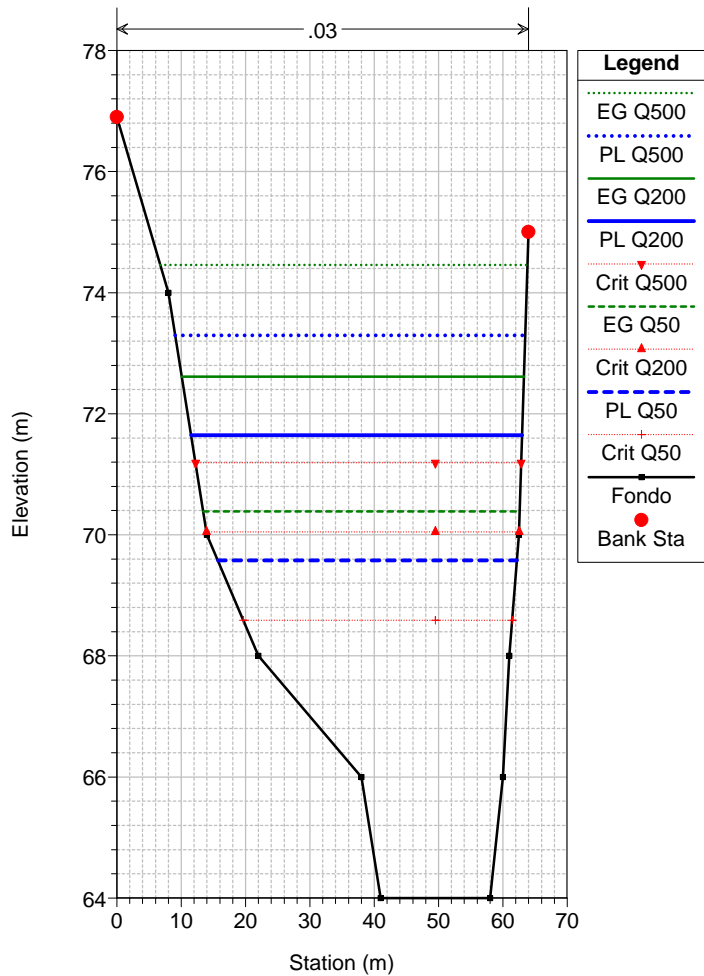
Torrente Lavagna Plan: 01_sett14
LAV-76



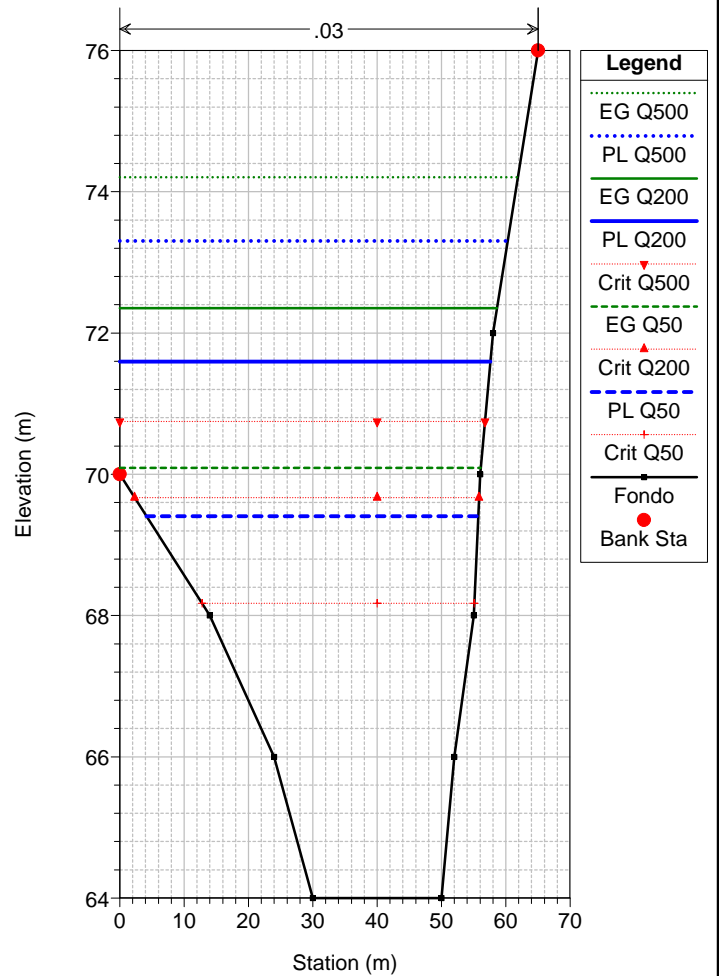
Torrente Lavagna Plan: 01_sett14
LAV-76



Torrente Lavagna Plan: 01_sett14
LAV-75



Torrente Lavagna Plan: 01_sett14
LAV-74



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
Litteglia-Malvar	83	LAV-122	Q50	610.00	102.80	112.09	116.80	4.71	116.80	4.71	108.07	112.38	0.000562	2.39	255.67	40.46	0.30
Litteglia-Malvar	83	LAV-122	Q200	1075.00	102.80	114.42	116.80	2.38	116.80	2.38	109.70	114.88	0.000710	3.00	357.78	47.07	0.35
Litteglia-Malvar	83	LAV-122	Q500	1561.00	102.80	116.09	116.80	0.71	116.80	0.71	111.03	116.73	0.000843	3.55	439.76	50.89	0.39
Litteglia-Malvar	82	LAV-121	Q50	610.00	102.40	112.11	116.20	4.09	114.80	2.69	107.67	112.37	0.000470	2.24	271.86	44.52	0.29
Litteglia-Malvar	82	LAV-121	Q200	1075.00	102.40	114.45	116.20	1.75	114.80	0.35	109.37	114.85	0.000581	2.79	385.85	53.19	0.33
Litteglia-Malvar	82	LAV-121	Q500	1561.00	102.40	116.15	116.20	0.05	114.80	-1.35	110.80	116.69	0.000700	3.25	479.81	59.06	0.36
Litteglia-Malvar	81.3	LAV-120	Q50	610.00	101.93	111.76	111.76	0.00	111.76	0.00	111.76	112.30	0.001167	3.26	187.29	28.67	0.41
Litteglia-Malvar	81.3	LAV-120	Q200	1075.00	101.93	113.76	111.76	-2.00	111.76	-2.00	111.76	114.74	0.001592	4.39	244.82	28.88	0.48
Litteglia-Malvar	81.3	LAV-120	Q500	1561.00	101.93	114.92	111.76	-3.16	111.76	-3.16	111.94	116.53	0.002278	5.62	278.79	30.67	0.58
Litteglia-Malvar	81.2	LAV-120	Q50	610.00	101.93	106.63	111.76	5.13	111.76	5.13	108.26	111.83	0.020175	10.11	60.35	20.13	1.73
Litteglia-Malvar	81.2	LAV-120	Q200	1075.00	101.93	113.76	111.76	-2.00	111.76	-2.00	110.55	114.74	0.001593	4.40	244.76	28.88	0.48
Litteglia-Malvar	81.2	LAV-120	Q500	1561.00	101.93	114.91	111.76	-3.15	111.76	-3.15	111.94	116.52	0.002282	5.62	278.24	28.95	0.58
Litteglia-Malvar	81.15	LAV-PT16		Bridge													
Litteglia-Malvar	81.1	LAV-120	Q50	610.00	101.93	106.30	111.76	5.46	111.76	5.46	107.97	111.70	0.026773	10.29	59.28	19.68	1.89
Litteglia-Malvar	81.1	LAV-120	Q200	1075.00	101.93	110.68	111.76	1.08	111.76	1.08	110.06	113.02	0.005402	6.78	158.51	25.67	0.87
Litteglia-Malvar	81.1	LAV-120	Q500	1561.00	101.93	112.56	111.76	-0.80	111.76	-0.80	111.92	115.37	0.005347	7.43	210.24	28.75	0.88
Litteglia-Malvar	81.0	LAV-120	Q50	610.00	101.93	106.37	111.76	5.39	111.76	5.39	107.98	111.52	0.025013	10.05	60.70	19.78	1.83
Litteglia-Malvar	81.0	LAV-120	Q200	1075.00	101.93	110.06	111.76	1.70	111.76	1.70	110.06	112.94	0.007137	7.52	143.02	24.84	1.00
Litteglia-Malvar	81.0	LAV-120	Q500	1561.00	101.93	111.94	111.76	-0.18	111.76	-0.18	111.94	115.29	0.007032	8.11	192.40	28.69	1.00
Litteglia-Malvar	80.1	LAV-119	Q50	610.00	98.54	105.42	109.19	3.77	115.00	9.58	104.12	106.60	0.003240	4.82	126.56	25.23	0.69
Litteglia-Malvar	80.1	LAV-119	Q200	1075.00	98.54	108.32	109.19	0.87	115.00	6.68	106.19	109.69	0.002624	5.18	207.38	30.55	0.64
Litteglia-Malvar	80.1	LAV-119	Q500	1561.00	98.54	110.93	109.19	-1.74	115.00	4.07	107.89	112.39	0.002158	5.35	291.77	33.30	0.58
Litteglia-Malvar	80.0	LAV-118	Q50	610.00	98.37	105.61	109.19	3.58	115.00	9.39	103.60	106.52	0.002259	4.24	143.87	26.07	0.58
Litteglia-Malvar	80.0	LAV-118	Q200	1075.00	98.37	108.46	109.19	0.73	115.00	6.54	105.67	109.62	0.002074	4.77	225.30	30.95	0.56
Litteglia-Malvar	80.0	LAV-118	Q500	1561.00	98.37	111.04	109.19	-1.85	115.00	3.96	107.40	112.34	0.001834	5.05	309.04	33.41	0.53
Litteglia-Malvar	79.3	LAV-117	Q50	610.00	98.38	104.44	113.00	8.56	113.00	8.56	103.72	106.16	0.005206	5.81	105.00	20.06	0.81
Litteglia-Malvar	79.3	LAV-117	Q200	1075.00	98.38	106.83	113.00	6.17	113.00	6.17	105.92	109.29	0.005535	6.95	154.73	21.61	0.83
Litteglia-Malvar	79.3	LAV-117	Q500	1561.00	98.38	108.90	113.00	4.10	113.00	4.10	107.84	111.98	0.005774	7.77	200.84	22.95	0.84
Litteglia-Malvar	79.2	LAV-117	Q50	610.00	98.38	104.43	113.00	8.57	113.00	8.57	103.72	106.16	0.005241	5.82	104.75	20.05	0.81
Litteglia-Malvar	79.2	LAV-117	Q200	1075.00	98.38	106.82	113.00	6.18	113.00	6.18	105.92	109.29	0.005564	6.96	154.43	21.60	0.83
Litteglia-Malvar	79.2	LAV-117	Q500	1561.00	98.38	108.88	113.00	4.12	113.00	4.12	107.84	111.97	0.005803	7.79	200.46	22.94	0.84
Litteglia-Malvar	79.15	LAV-PT15		Bridge													
Litteglia-Malvar	79.1	LAV-117	Q50	610.00	98.38	104.23	113.00	8.77	113.00	8.77	103.72	106.10	0.005862	6.06	100.66	19.92	0.86
Litteglia-Malvar	79.1	LAV-117	Q200	1075.00	98.38	106.57	113.00	6.43	113.00	6.43	105.92	109.22	0.006115	7.21	149.18	21.44	0.87
Litteglia-Malvar	79.1	LAV-117	Q500	1561.00	98.38	108.61	113.00	4.39	113.00	4.39	107.84	111.90	0.006315	8.04	194.23	22.76	0.88
Litteglia-Malvar	79.0	LAV-117	Q50	610.00	98.38	103.72	113.00	9.28	113.00	9.28	103.72	106.03	0.007888	6.73	90.63	19.59	1.00
Litteglia-Malvar	79.0	LAV-117	Q200	1075.00	98.38	105.92	113.00	7.08	113.00	7.08	105.92	109.14	0.007990	7.94	135.31	21.02	1.00
Litteglia-Malvar	79.0	LAV-117	Q500	1561.00	98.38	107.84	113.00	5.16	113.00	5.16	107.84	111.81	0.008116	8.82	176.93	22.26	1.00
Litteglia-Malvar	78.2	LAV-116	Q50	628.00	96.58	100.00	103.00	3.00	100.00	0.00	101.02	103.09	0.015731	7.79	80.63	29.99	1.52
Litteglia-Malvar	78.2	LAV-116	Q200	1107.00	96.58	101.07	103.00	1.93	100.00	-1.07	102.61	105.62	0.018502	9.47	117.99	39.61	1.70
Litteglia-Malvar	78.2	LAV-116	Q500	1607.00	96.58	101.75	103.00	1.25	100.00	-1.75	103.70	107.98	0.022351	11.11	147.13	45.73	1.90

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
Litteglia-Malvar	78.1	LAV-115	Q50	628.00	94.39	99.11	100.00	0.89	100.00	0.89	99.47	101.08	0.009366	6.22	100.92	34.84	1.17
Litteglia-Malvar	78.1	LAV-115	Q200	1107.00	94.39	100.72	100.00	-0.72	100.00	-0.72	100.96	103.06	0.007054	6.78	164.55	43.96	1.07
Litteglia-Malvar	78.1	LAV-115	Q500	1607.00	94.39	101.82	100.00	-1.82	100.00	-1.82	102.24	104.80	0.006603	7.69	216.16	50.10	1.08
Litteglia-Malvar	78	LAV-114	Q50	628.00	92.29	97.47	101.70	4.23	101.87	4.40	96.30	98.36	0.002634	4.18	150.37	35.88	0.65
Litteglia-Malvar	78	LAV-114	Q200	1107.00	92.29	100.43	101.70	1.27	101.87	1.44	97.91	101.31	0.001597	4.14	267.18	43.03	0.53
Litteglia-Malvar	78	LAV-114	Q500	1607.00	92.29	103.09	101.70	-1.39	101.87	-1.22	99.29	103.96	0.001118	4.14	389.15	48.00	0.46
Litteglia-Malvar	77	LAV-113	Q50	628.00	91.71	97.67	100.00	2.33	101.70	4.03	95.15	98.12	0.001111	2.95	212.87	43.39	0.43
Litteglia-Malvar	77	LAV-113	Q200	1107.00	91.71	100.62	100.00	-0.62	101.70	1.08	96.69	101.12	0.000814	3.13	353.79	52.06	0.38
Litteglia-Malvar	77	LAV-113	Q500	1607.00	91.71	103.27	100.00	-3.27	101.70	-1.57	97.99	103.81	0.000608	3.24	498.83	55.95	0.34
Litteglia-Malvar	76.3	LAV-112	Q50	628.00	91.42	96.85	100.00	3.15	101.70	4.85	95.49	97.99	0.002118	4.74	132.50	37.29	0.65
Litteglia-Malvar	76.3	LAV-112	Q200	1107.00	91.42	99.26	100.00	0.74	101.70	2.44	97.36	100.97	0.001935	5.79	191.29	43.66	0.66
Litteglia-Malvar	76.3	LAV-112	Q500	1607.00	91.42	101.39	100.00	-1.39	101.70	0.31	99.04	103.61	0.001830	6.61	243.29	49.77	0.67
Litteglia-Malvar	76.2	LAV-112	Q50	628.00	91.42	97.20	106.50	9.30	106.50	9.30	95.34	97.84	0.001777	3.56	176.41	38.21	0.53
Litteglia-Malvar	76.2	LAV-112	Q200	1107.00	91.42	99.94	106.50	6.56	106.50	6.56	96.96	100.67	0.001362	3.80	290.96	45.45	0.48
Litteglia-Malvar	76.2	LAV-112	Q500	1607.00	91.42	102.40	106.50	4.10	106.50	4.10	98.33	103.18	0.001091	3.91	411.45	51.18	0.44
Litteglia-Malvar	76.15	LAV-PT14	Bridge														
Litteglia-Malvar	76.1	LAV-112	Q50	628.00	91.42	96.78	106.50	9.72	106.50	9.72	95.34	97.56	0.002311	3.90	160.83	37.12	0.60
Litteglia-Malvar	76.1	LAV-112	Q200	1107.00	91.42	99.14	106.50	7.36	106.50	7.36	96.96	100.10	0.001950	4.33	255.64	43.35	0.57
Litteglia-Malvar	76.1	LAV-112	Q500	1607.00	91.42	101.06	106.50	5.44	106.50	5.44	98.33	102.17	0.001815	4.67	344.00	48.79	0.56
Litteglia-Malvar	76.0	LAV-112	Q50	628.00	91.42	96.77	100.00	3.23	101.70	4.93	95.34	97.55	0.002332	3.92	160.31	37.08	0.60
Litteglia-Malvar	76.0	LAV-112	Q200	1107.00	91.42	99.13	100.00	0.87	101.70	2.57	96.96	100.09	0.001960	4.34	255.18	43.32	0.57
Litteglia-Malvar	76.0	LAV-112	Q500	1607.00	91.42	101.05	100.00	-1.05	101.70	0.65	98.33	102.17	0.001774	4.68	344.21	50.22	0.56
Litteglia-Malvar	75.4	LAV-111	Q50	628.00	89.80	94.88	100.00	5.12	100.00	5.12	94.88	96.83	0.006793	6.19	101.51	25.96	1.00
Litteglia-Malvar	75.4	LAV-111	Q200	1107.00	89.80	96.81	100.00	3.19	100.00	3.19	96.81	99.38	0.006437	7.09	156.08	30.50	1.00
Litteglia-Malvar	75.4	LAV-111	Q500	1607.00	89.80	98.43	100.00	1.57	100.00	1.57	98.43	101.46	0.006173	7.71	208.36	34.30	1.00
Litteglia-Malvar	75.3	LAV-110	Q50	628.00	88.55	92.54	100.00	7.46	100.00	7.46	92.89	94.54	0.008860	6.26	100.28	33.54	1.16
Litteglia-Malvar	75.3	LAV-110	Q200	1107.00	88.55	93.38	100.00	6.62	100.00	6.62	94.48	97.08	0.013358	8.52	129.97	37.09	1.45
Litteglia-Malvar	75.3	LAV-110	Q500	1607.00	88.55	94.30	100.00	5.70	100.00	5.70	95.80	99.09	0.014411	9.70	165.60	40.94	1.54
Litteglia-Malvar	75.2	LAV-109	Q50	628.00	87.04	90.94	95.00	4.06	100.00	9.06	89.72	91.49	0.001937	3.29	190.62	53.97	0.56
Litteglia-Malvar	75.2	LAV-109	Q200	1107.00	87.04	93.28	95.00	1.72	100.00	6.72	90.91	93.87	0.001219	3.42	323.97	60.09	0.47
Litteglia-Malvar	75.2	LAV-109	Q500	1607.00	87.04	95.40	95.00	-0.40	100.00	4.60	91.95	96.03	0.000928	3.51	457.45	65.04	0.42
Litteglia-Malvar	75.1	LAV-108	Q50	628.00	85.45	89.91	96.20	6.29	95.00	5.09	89.13	90.94	0.003555	4.48	140.07	36.79	0.73
Litteglia-Malvar	75.1	LAV-108	Q200	1107.00	85.45	92.33	96.20	3.87	95.00	2.67	90.67	93.46	0.002443	4.71	234.90	41.69	0.63
Litteglia-Malvar	75.1	LAV-108	Q500	1607.00	85.45	94.44	96.20	1.76	95.00	0.56	92.00	95.67	0.001997	4.90	327.64	45.96	0.59
Litteglia-Malvar	75	LAV-107	Q50	636.00	83.89	88.13	95.47	7.34	95.75	7.62	88.13	90.05	0.007171	6.14	103.60	26.90	1.00
Litteglia-Malvar	75	LAV-107	Q200	1121.00	83.89	89.93	95.47	5.54	95.75	5.82	89.93	92.67	0.007065	7.34	152.79	27.83	1.00
Litteglia-Malvar	75	LAV-107	Q500	1627.00	83.89	91.58	95.47	3.89	95.75	4.17	91.58	94.88	0.007040	8.06	201.95	30.49	1.00
Litteglia-Malvar	74	LAV-106	Q50	636.00	82.91	88.03	95.00	6.97	95.85	7.82	87.09	89.30	0.003935	4.99	127.50	26.89	0.73
Litteglia-Malvar	74	LAV-106	Q200	1121.00	82.91	89.73	95.00	5.27	95.85	6.12	88.95	91.83	0.004937	6.43	174.44	28.29	0.83
Litteglia-Malvar	74	LAV-106	Q500	1627.00	82.91	91.04	95.00	3.96	95.85	4.81	90.57	94.04	0.005967	7.67	212.18	29.37	0.91
Litteglia-Malvar	73	LAV-105	Q50	636.00	82.62	87.99	95.00	7.01	97.63	9.64	86.91	89.14	0.003592	4.76	133.67	28.14	0.70
Litteglia-Malvar	73	LAV-105	Q200	1121.00	82.62	89.74	95.00	5.26	97.63	7.89	88.73	91.62	0.004409	6.08	184.31	30.04	0.78

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
Litteglia-Malvar	73	LAV-105	Q500	1627.00	82.62	91.30	95.00	3.70	97.63	6.33	90.62	93.66	0.005021	6.80	239.14	37.12	0.86
Litteglia-Malvar	72	LAV-104	Q50	636.00	82.67	87.94	95.00	7.06	97.37	9.43	86.90	89.01	0.003357	4.59	138.61	30.69	0.69
Litteglia-Malvar	72	LAV-104	Q200	1121.00	82.67	89.77	95.00	5.23	97.37	7.60	88.60	91.43	0.003795	5.70	196.59	33.10	0.75
Litteglia-Malvar	72	LAV-104	Q500	1627.00	82.67	91.34	95.00	3.66	97.37	6.03	90.25	93.44	0.004135	6.42	253.52	38.44	0.80
Litteglia-Malvar	71	LAV-103	Q50	636.00	82.55	87.80	95.00	7.20	97.39	9.59	86.89	88.92	0.003634	4.67	136.08	31.13	0.71
Litteglia-Malvar	71	LAV-103	Q200	1121.00	82.55	89.60	95.00	5.40	97.39	7.79	88.55	91.32	0.003987	5.80	193.29	32.47	0.76
Litteglia-Malvar	71	LAV-103	Q500	1627.00	82.55	90.89	95.00	4.11	97.39	6.50	90.03	93.28	0.005305	6.85	237.56	39.26	0.89
Litteglia-Malvar	70	LAV-102	Q50	636.00	82.40	88.02	95.00	6.98	95.42	7.40	86.33	88.66	0.001792	3.53	179.98	38.54	0.52
Litteglia-Malvar	70	LAV-102	Q200	1121.00	82.40	90.00	95.00	5.00	95.42	5.42	87.76	90.97	0.001916	4.35	257.47	40.06	0.55
Litteglia-Malvar	70	LAV-102	Q500	1627.00	82.40	91.52	95.00	3.48	95.42	3.90	89.04	92.81	0.002208	5.04	322.83	44.00	0.59
Litteglia-Malvar	68	LAV-102	Q50	636.00	82.40	88.02	95.00	6.98	95.42	7.40	86.33	88.66	0.001795	3.54	179.89	38.54	0.52
Litteglia-Malvar	68	LAV-102	Q200	1121.00	82.40	90.00	95.00	5.00	95.42	5.42	87.76	90.97	0.001917	4.36	257.37	40.04	0.55
Litteglia-Malvar	68	LAV-102	Q500	1627.00	82.40	91.51	95.00	3.49	95.42	3.91	89.04	92.81	0.002211	5.04	322.69	44.00	0.59
Litteglia-Malvar	67.5	LAV-PT13		Bridge													
Litteglia-Malvar	67	LAV-102	Q50	636.00	82.40	88.01	95.00	6.99	95.42	7.41	86.33	88.65	0.001802	3.54	179.68	38.54	0.52
Litteglia-Malvar	67	LAV-102	Q200	1121.00	82.40	89.99	95.00	5.01	95.42	5.43	87.76	90.96	0.001920	4.36	257.13	39.99	0.55
Litteglia-Malvar	67	LAV-102	Q500	1627.00	82.40	91.51	95.00	3.49	95.42	3.91	89.04	92.80	0.002218	5.05	322.37	44.00	0.60
Litteglia-Malvar	66	LAV-102	Q50	636.00	82.40	88.00	95.00	7.00	95.42	7.42	86.33	88.65	0.001813	3.55	179.31	38.53	0.52
Litteglia-Malvar	66	LAV-102	Q200	1121.00	82.40	89.98	95.00	5.02	95.42	5.44	87.76	90.96	0.001926	4.37	256.71	39.91	0.55
Litteglia-Malvar	66	LAV-102	Q500	1627.00	82.40	91.49	95.00	3.51	95.42	3.93	89.04	92.80	0.002230	5.06	321.78	43.99	0.60
Litteglia-Malvar	65.3	LAV-101	Q50	636.00	81.68	86.55	94.80	8.25	90.00	3.45	86.55	88.34	0.006604	5.92	107.37	30.02	1.00
Litteglia-Malvar	65.3	LAV-101	Q200	1121.00	81.68	88.35	94.80	6.45	90.00	1.65	88.35	90.63	0.006147	6.68	167.81	37.00	1.00
Litteglia-Malvar	65.3	LAV-101	Q500	1627.00	81.68	89.81	94.80	4.99	90.00	0.19	89.81	92.46	0.005844	7.21	225.62	42.62	1.00
Litteglia-Malvar	65.2	LAV-100	Q50	649.00	80.52	84.94	90.00	5.06	90.00	5.06	85.05	86.80	0.007194	6.05	107.25	31.49	1.05
Litteglia-Malvar	65.2	LAV-100	Q200	1143.00	80.52	86.76	90.00	3.24	90.00	3.24	86.76	89.09	0.006088	6.76	169.04	36.34	1.00
Litteglia-Malvar	65.2	LAV-100	Q500	1659.00	80.52	88.20	90.00	1.80	90.00	1.80	88.20	90.99	0.005816	7.40	224.11	40.13	1.00
Litteglia-Malvar	65.1	LAV-99	Q50	649.00	77.79	81.67	90.00	8.33	90.00	8.33	82.23	84.01	0.010903	6.79	95.61	33.48	1.28
Litteglia-Malvar	65.1	LAV-99	Q200	1143.00	77.79	83.74	90.00	6.26	90.00	6.26	83.83	85.98	0.006262	6.63	172.47	40.54	1.03
Litteglia-Malvar	65.1	LAV-99	Q500	1659.00	77.79	88.12	90.00	1.88	90.00	1.88	85.17	89.07	0.001477	4.31	384.48	56.78	0.53
Litteglia-Malvar	65	LAV-98	Q50	649.00	75.48	79.75	94.50	14.75	90.00	10.25	80.22	81.83	0.010236	6.39	101.52	37.39	1.24
Litteglia-Malvar	65	LAV-98	Q200	1143.00	75.48	80.94	94.50	13.56	90.00	9.06	81.69	83.89	0.010801	7.62	150.07	44.01	1.32
Litteglia-Malvar	65	LAV-98	Q500	1659.00	75.48	88.27	94.50	6.23	90.00	1.73	82.89	88.69	0.000526	2.88	576.97	73.33	0.33
Litteglia-Malvar	64	LAV-97	Q50	649.00	73.30	77.22	89.52	12.30	87.80	10.58	78.34	80.57	0.019579	8.11	80.05	31.66	1.63
Litteglia-Malvar	64	LAV-97	Q200	1143.00	73.30	82.46	89.52	7.06	87.80	5.34	79.92	83.00	0.001117	3.26	350.85	64.46	0.45
Litteglia-Malvar	64	LAV-97	Q500	1659.00	73.30	88.38	89.52	1.14	87.80	-0.58	80.95	88.60	0.000231	2.11	786.49	83.04	0.22
Litteglia-Malvar	63	LAV-96	Q50	649.00	72.60	76.62	91.65	15.03	89.00	12.38	77.65	80.02	0.021315	8.16	79.50	34.40	1.71
Litteglia-Malvar	63	LAV-96	Q200	1143.00	72.60	82.38	91.65	9.27	89.00	6.62	79.24	82.97	0.001059	3.39	337.60	53.95	0.43
Litteglia-Malvar	63	LAV-96	Q500	1659.00	72.60	88.31	91.65	3.34	89.00	0.69	80.50	88.59	0.000285	2.36	701.70	69.57	0.24
Litteglia-Malvar	62	LAV-95	Q50	649.00	71.60	78.87	91.72	12.85	90.00	11.13	77.31	79.54	0.002061	3.63	178.96	44.20	0.58
Litteglia-Malvar	62	LAV-95	Q200	1143.00	71.60	82.38	91.72	9.34	90.00	7.62	78.91	82.92	0.000892	3.28	348.97	50.93	0.40
Litteglia-Malvar	62	LAV-95	Q500	1659.00	71.60	88.30	91.72	3.42	90.00	1.70	80.13	88.58	0.000324	2.37	699.06	75.27	0.25

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
Litteglia-Malvar	61	LAV-94	Q50	649.00	70.95	78.48	90.00	11.52	88.40	9.92	76.85	79.42	0.002590	4.31	150.70	31.02	0.62
Litteglia-Malvar	61	LAV-94	Q200	1143.00	70.95	81.96	90.00	8.05	88.40	6.44	78.84	82.85	0.001554	4.18	273.24	38.23	0.50
Litteglia-Malvar	61	LAV-94	Q500	1659.00	70.95	88.10	90.00	1.90	88.40	0.30	80.42	88.55	0.000570	2.98	556.55	60.83	0.31
Litteglia-Malvar	60.6	LAV-93	Q50	649.00	70.68	78.47	85.00	6.53	85.00	6.53	74.47	78.90	0.000873	2.91	222.72	29.54	0.34
Litteglia-Malvar	60.6	LAV-93	Q200	1143.00	70.68	81.97	85.00	3.03	85.00	3.03	76.21	82.58	0.000931	3.43	332.88	35.42	0.36
Litteglia-Malvar	60.6	LAV-93	Q500	1659.00	70.68	88.08	85.00	-3.08	85.00	-3.08	77.76	88.49	0.000423	2.83	587.17	43.71	0.25
Litteglia-Malvar	60.5	LAV-92	Q50	649.00	70.42	78.49	80.95	2.46	82.50	4.01	74.43	78.79	0.000605	2.43	266.56	36.98	0.29
Litteglia-Malvar	60.5	LAV-92	Q200	1143.00	70.42	82.03	80.95	-1.08	82.50	0.47	75.88	82.45	0.000587	2.88	397.51	37.00	0.28
Litteglia-Malvar	60.5	LAV-92	Q500	1659.00	70.42	88.07	80.95	-7.12	82.50	-5.57	77.17	88.43	0.000358	2.67	621.03	37.00	0.21
Litteglia-Malvar	60.3	LAV-91	Q50	649.00	70.30	77.96	80.95	2.99	80.00	2.04	75.18	78.69	0.001799	3.78	171.69	24.97	0.46
Litteglia-Malvar	60.3	LAV-91	Q200	1143.00	70.30	81.31	80.95	-0.36	80.00	-1.31	77.07	82.33	0.001833	4.48	255.38	25.00	0.45
Litteglia-Malvar	60.3	LAV-91	Q500	1659.00	70.30	87.52	80.95	-6.57	80.00	-7.52	78.75	88.35	0.001091	4.04	410.54	25.00	0.32
Litteglia-Malvar	60.2	LAV-91	Q50	649.00	70.30	77.96	84.20	6.24	84.20	6.24	75.18	78.69	0.001804	3.78	171.55	24.96	0.46
Litteglia-Malvar	60.2	LAV-91	Q200	1143.00	70.30	81.31	84.20	2.89	84.20	2.89	77.07	82.33	0.001838	4.48	255.15	24.98	0.45
Litteglia-Malvar	60.2	LAV-91	Q500	1659.00	70.30	87.52	84.20	-3.32	84.20	-3.32	78.75	88.35	0.001093	4.04	410.33	25.00	0.32
Litteglia-Malvar	60.15	LAV-PT12		Bridge													
Litteglia-Malvar	60.1	LAV-91	Q50	649.00	70.30	76.96	84.20	7.24	84.20	7.24	75.18	77.96	0.002837	4.43	146.67	24.95	0.58
Litteglia-Malvar	60.1	LAV-91	Q200	1143.00	70.30	75.09	84.20	9.11	84.20	9.11	77.07	81.76	0.027528	11.45	99.84	24.93	1.83
Litteglia-Malvar	60.1	LAV-91	Q500	1659.00	70.30	79.90	84.20	4.30	84.20	4.30	78.75	82.80	0.005842	7.55	219.88	24.97	0.81
Litteglia-Malvar	60.0	LAV-91	Q50	649.00	70.30	76.95	81.02	4.07	77.74	0.79	75.18	77.95	0.002856	4.44	146.33	24.96	0.58
Litteglia-Malvar	60.0	LAV-91	Q200	1143.00	70.30	75.17	81.02	5.85	77.74	2.57	77.07	81.58	0.025875	11.22	101.91	24.95	1.77
Litteglia-Malvar	60.0	LAV-91	Q500	1659.00	70.30	79.83	81.02	1.19	77.74	-2.09	78.75	82.77	0.005965	7.60	218.23	24.99	0.82
Litteglia-Malvar	59.5	LAV-90	Q50	649.00	71.15	77.11	77.74	0.63	77.74	0.63	75.03	77.76	0.001643	3.55	182.73	33.59	0.49
Litteglia-Malvar	59.5	LAV-90	Q200	1143.00	71.15	78.84	77.74	-1.10	77.74	-1.10	76.57	79.99	0.002256	4.75	240.67	33.60	0.57
Litteglia-Malvar	59.5	LAV-90	Q500	1659.00	71.15	80.65	77.74	-2.91	77.74	-2.91	77.96	82.19	0.002476	5.50	301.64	33.60	0.59
Litteglia-Malvar	59.3	LAV-89	Q50	649.00	71.40	76.94	86.50	9.56	77.74	0.80	75.17	77.66	0.001958	3.76	172.42	33.53	0.53
Litteglia-Malvar	59.3	LAV-89	Q200	1143.00	71.40	78.56	86.50	7.94	77.74	-0.82	76.71	79.86	0.002687	5.04	226.81	33.55	0.62
Litteglia-Malvar	59.3	LAV-89	Q500	1659.00	71.40	80.35	86.50	6.15	77.74	-2.61	78.10	82.05	0.002870	5.79	286.59	33.56	0.63
Litteglia-Malvar	59.2	LAV-89	Q50	649.00	71.40	76.94	86.50	9.56	86.50	9.56	75.17	77.66	0.001961	3.77	172.33	33.53	0.53
Litteglia-Malvar	59.2	LAV-89	Q200	1143.00	71.40	78.56	86.50	7.94	86.50	7.94	76.71	79.86	0.002692	5.04	226.67	33.55	0.62
Litteglia-Malvar	59.2	LAV-89	Q500	1659.00	71.40	80.34	86.50	6.16	86.50	6.16	78.10	82.05	0.002875	5.79	286.43	33.56	0.63
Litteglia-Malvar	59.15	LAV-PT11		Bridge													
Litteglia-Malvar	59.1	LAV-89	Q50	649.00	71.40	76.83	86.50	9.67	86.50	9.67	75.17	77.59	0.002090	3.85	168.73	33.53	0.55
Litteglia-Malvar	59.1	LAV-89	Q200	1143.00	71.40	78.18	86.50	8.32	86.50	8.32	76.71	79.64	0.003191	5.34	213.95	33.54	0.68
Litteglia-Malvar	59.1	LAV-89	Q500	1659.00	71.40	79.23	86.50	7.27	86.50	7.27	78.10	81.49	0.004298	6.66	249.21	33.55	0.78
Litteglia-Malvar	59.0	LAV-89	Q50	649.00	71.40	76.82	86.50	9.68	86.50	9.68	75.17	77.58	0.002104	3.86	168.35	33.53	0.55
Litteglia-Malvar	59.0	LAV-89	Q200	1143.00	71.40	78.16	86.50	8.34	86.50	8.34	76.71	79.62	0.003224	5.36	213.22	33.54	0.68
Litteglia-Malvar	59.0	LAV-89	Q500	1659.00	71.40	76.98	86.50	9.52	86.50	9.52	78.10	81.63	0.012540	9.56	173.58	33.53	1.34
Litteglia-Malvar	58.3	LAV-88	Q50	649.00	70.00	75.14	80.00	4.86	82.00	6.86	73.48	75.77	0.001779	3.52	184.60	42.48	0.54
Litteglia-Malvar	58.3	LAV-88	Q200	1143.00	70.00	76.50	80.00	3.50	82.00	5.50	74.97	77.61	0.002450	4.66	245.06	46.32	0.65
Litteglia-Malvar	58.3	LAV-88	Q500	1659.00	70.00	77.58	80.00	2.42	82.00	4.42	76.26	79.17	0.003026	5.59	296.74	49.68	0.73

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
Litteglia-Malvar	58.2	LAV-87	Q50	649.00	70.00	74.29	78.00	3.71	80.00	5.71	73.66	75.03	0.003414	3.82	169.82	60.22	0.73
Litteglia-Malvar	58.2	LAV-87	Q200	1143.00	70.00	75.64	78.00	2.36	80.00	4.36	74.82	76.67	0.003075	4.50	253.84	64.38	0.72
Litteglia-Malvar	58.2	LAV-87	Q500	1659.00	70.00	76.91	78.00	1.09	80.00	3.09	75.78	78.12	0.002932	4.87	340.89	74.02	0.72
Litteglia-Malvar	58	LAV-86	Q50	667.00	68.87	73.02	79.70	6.68	80.60	7.58	72.36	73.95	0.003460	4.26	156.64	47.23	0.75
Litteglia-Malvar	58	LAV-86	Q200	1175.00	68.87	74.43	79.70	5.27	80.60	6.17	73.75	75.79	0.003693	5.17	227.27	53.41	0.80
Litteglia-Malvar	58	LAV-86	Q500	1706.00	68.87	76.25	79.70	3.45	80.60	4.35	74.93	77.60	0.002681	5.14	331.83	61.43	0.71
Litteglia-Malvar	57	LAV-85	Q50	667.00	68.30	73.18	80.40	7.22	75.91	2.73	71.29	73.56	0.001164	2.73	243.95	63.22	0.44
Litteglia-Malvar	57	LAV-85	Q200	1175.00	68.30	74.74	80.40	5.66	75.91	1.17	72.52	75.32	0.001301	3.37	348.89	71.59	0.49
Litteglia-Malvar	57	LAV-85	Q500	1706.00	68.30	76.58	80.40	3.82	75.91	-0.67	73.57	77.20	0.001035	3.49	488.84	79.13	0.45
Litteglia-Malvar	56	LAV-84	Q50	667.00	67.86	72.05	79.08	7.03	75.91	3.86	72.05	73.34	0.006856	5.03	132.64	51.46	1.00
Litteglia-Malvar	56	LAV-84	Q200	1175.00	67.86	73.76	79.08	5.32	75.91	2.15	73.31	75.11	0.004381	5.15	228.36	60.51	0.85
Litteglia-Malvar	56	LAV-84	Q500	1706.00	67.86	76.06	79.08	3.02	75.91	-0.15	74.38	77.07	0.002168	4.46	382.51	73.72	0.63
Litteglia-Malvar	55	LAV-83	Q50	667.00	67.16	72.01	78.30	6.29	75.56	3.55	70.77	72.47	0.001808	3.02	220.63	68.73	0.54
Litteglia-Malvar	55	LAV-83	Q200	1175.00	67.16	74.24	78.30	4.06	75.56	1.32	71.88	74.70	0.001095	3.02	389.08	82.67	0.44
Litteglia-Malvar	55	LAV-83	Q500	1706.00	67.16	76.37	78.30	1.93	75.56	-0.81	72.84	76.81	0.000735	2.93	581.85	95.00	0.38
Litteglia-Malvar	54	LAV-82	Q50	667.00	65.90	71.70	79.50	7.80	75.75	4.05	69.43	71.97	0.000810	2.32	287.20	70.94	0.37
Litteglia-Malvar	54	LAV-82	Q200	1175.00	65.90	74.17	79.50	5.33	75.75	1.58	70.63	74.47	0.000588	2.44	481.86	86.61	0.33
Litteglia-Malvar	54	LAV-82	Q500	1706.00	65.90	76.34	79.50	3.16	75.75	-0.59	71.52	76.66	0.000440	2.53	673.65	89.93	0.30
Litteglia-Malvar	53	LAV-81	Q50	667.00	65.90	71.40	80.61	9.21	80.00	8.60	70.11	71.91	0.001796	3.16	211.34	58.40	0.53
Litteglia-Malvar	53	LAV-81	Q200	1175.00	65.90	73.88	80.61	6.73	80.00	6.12	71.23	74.42	0.001074	3.24	362.33	63.79	0.43
Litteglia-Malvar	53	LAV-81	Q500	1706.00	65.90	76.04	80.61	4.57	80.00	3.96	72.24	76.62	0.000851	3.37	505.67	69.71	0.40
Litteglia-Malvar	52	LAV-80	Q50	667.00	66.10	71.15	78.88	7.73	79.00	7.85	69.99	71.77	0.002216	3.48	191.83	54.82	0.59
Litteglia-Malvar	52	LAV-80	Q200	1175.00	66.10	73.74	78.88	5.14	79.00	5.26	71.26	74.34	0.001224	3.45	340.28	61.38	0.47
Litteglia-Malvar	52	LAV-80	Q500	1706.00	66.10	75.92	78.88	2.96	79.00	3.08	72.31	76.56	0.000971	3.53	483.15	70.50	0.43
Litteglia-Malvar	51	LAV-79	Q50	667.00	65.70	71.13	79.16	8.03	78.41	7.28	69.60	71.67	0.001696	3.26	204.83	50.77	0.52
Litteglia-Malvar	51	LAV-79	Q200	1175.00	65.70	73.71	79.16	5.45	78.41	4.70	70.88	74.29	0.001160	3.38	347.53	59.88	0.45
Litteglia-Malvar	51	LAV-79	Q500	1706.00	65.70	75.89	79.16	3.27	78.41	2.52	71.99	76.52	0.000950	3.52	484.89	67.12	0.42
Litteglia-Malvar	50	LAV-78	Q50	667.00	65.30	71.03	77.46	6.43	79.71	8.68	69.22	71.60	0.001582	3.36	198.66	45.19	0.51
Litteglia-Malvar	50	LAV-78	Q200	1175.00	65.30	73.56	77.46	3.90	79.71	6.15	70.71	74.24	0.001236	3.66	321.27	52.44	0.47
Litteglia-Malvar	50	LAV-78	Q500	1706.00	65.30	75.71	77.46	1.75	79.71	4.00	71.94	76.47	0.001057	3.87	441.01	57.92	0.45
Litteglia-Malvar	49	LAV-77	Q50	667.00	64.95	70.79	76.85	6.06	79.36	8.57	69.04	71.53	0.001873	3.82	174.64	35.56	0.55
Litteglia-Malvar	49	LAV-77	Q200	1175.00	64.95	73.16	76.85	3.69	79.36	6.20	70.68	74.16	0.001825	4.43	265.08	41.28	0.56
Litteglia-Malvar	49	LAV-77	Q500	1706.00	64.95	75.20	76.85	1.65	79.36	4.16	72.16	76.39	0.001749	4.83	353.00	45.58	0.55
Litteglia-Malvar	48.3	LAV-76	Q50	667.00	64.80	69.88	77.87	7.99	77.87	7.99	69.38	71.41	0.004767	5.48	121.65	28.37	0.85
Litteglia-Malvar	48.3	LAV-76	Q200	1175.00	64.80	71.89	77.87	5.98	77.87	5.98	71.27	74.01	0.004732	6.46	181.89	31.65	0.86
Litteglia-Malvar	48.3	LAV-76	Q500	1706.00	64.80	73.74	77.87	4.13	77.87	4.13	72.89	76.22	0.005130	6.98	244.44	40.26	0.90
Litteglia-Malvar	48.2	LAV-76	Q50	667.00	64.80	69.87	77.87	8.00	77.87	8.00	69.38	71.41	0.004807	5.50	121.30	28.35	0.85
Litteglia-Malvar	48.2	LAV-76	Q200	1175.00	64.80	71.87	77.87	6.00	77.87	6.00	71.27	74.01	0.004761	6.47	181.48	31.63	0.86
Litteglia-Malvar	48.2	LAV-76	Q500	1706.00	64.80	73.72	77.87	4.15	77.87	4.15	72.89	76.22	0.005135	7.01	243.47	39.83	0.90
Litteglia-Malvar	48.1	LAV-PT10		Bridge													
Litteglia-Malvar	48	LAV-76	Q50	667.00	64.80	69.82	77.87	8.05	77.87	8.05	69.38	71.40	0.004946	5.55	120.10	28.28	0.86
Litteglia-Malvar	48	LAV-76	Q200	1175.00	64.80	71.83	77.87	6.04	77.87	6.04	71.27	74.00	0.004873	6.53	179.98	31.55	0.87

HEC-RAS Plan: 01_sett14 River: Lavagna Reach: Litteglia-Malvar (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
Litteglia-Malvar	48	LAV-76	Q500	1706.00	64.80	73.61	77.87	4.26	77.87	4.26	72.89	76.20	0.005143	7.13	239.39	37.95	0.91
Litteglia-Malvar	47.9	LAV-76	Q50	667.00	64.80	69.38	77.87	8.49	77.87	8.49	69.38	71.33	0.006761	6.19	107.76	27.56	1.00
Litteglia-Malvar	47.9	LAV-76	Q200	1175.00	64.80	71.27	77.87	6.60	77.87	6.60	71.27	73.93	0.006462	7.22	162.79	30.65	1.00
Litteglia-Malvar	47.9	LAV-76	Q500	1706.00	64.80	72.89	77.87	4.98	77.87	4.98	72.89	76.11	0.006291	7.95	214.61	33.29	1.00
Litteglia-Malvar	47.6	LAV-75	Q50	667.00	64.00	69.58	76.90	7.32	75.00	5.42	68.59	70.38	0.002876	3.99	167.34	46.48	0.67
Litteglia-Malvar	47.6	LAV-75	Q200	1175.00	64.00	71.64	76.90	5.26	75.00	3.36	70.05	72.61	0.002164	4.36	269.59	51.46	0.61
Litteglia-Malvar	47.6	LAV-75	Q500	1706.00	64.00	73.29	76.90	3.61	75.00	1.71	71.19	74.46	0.001987	4.78	357.05	54.43	0.60
Litteglia-Malvar	47.5	LAV-74	Q50	667.00	64.00	69.41	70.00	0.59	76.00	6.59	68.17	70.09	0.002415	3.66	182.13	51.55	0.62
Litteglia-Malvar	47.5	LAV-74	Q200	1175.00	64.00	71.60	70.00	-1.60	76.00	4.40	69.67	72.35	0.001644	3.86	304.64	57.60	0.54
Litteglia-Malvar	47.5	LAV-74	Q500	1706.00	64.00	73.30	70.00	-3.30	76.00	2.70	70.75	74.21	0.001482	4.21	404.98	60.28	0.52

Piano di bacino torrente Lavagna

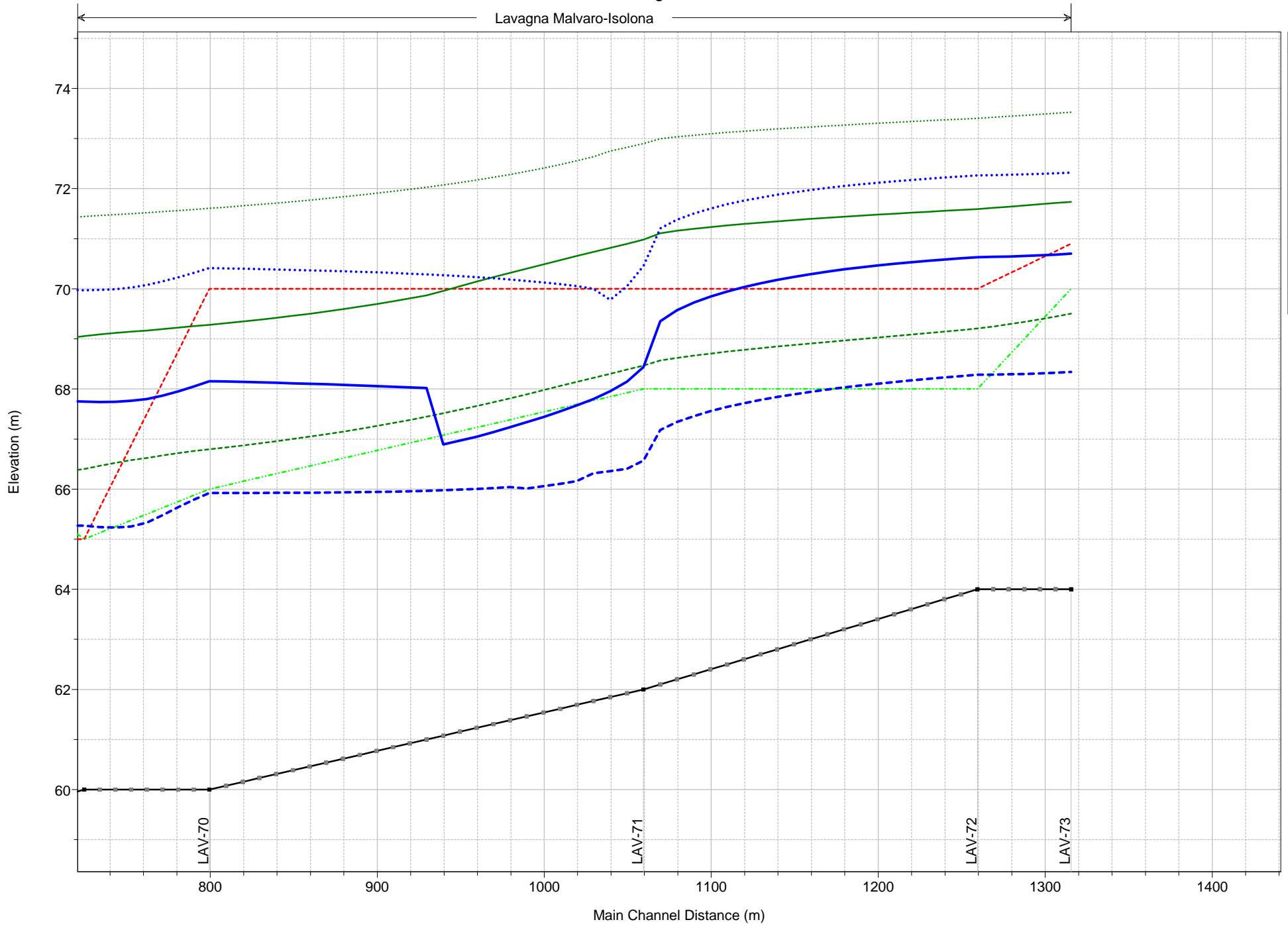
T. Lavagna

tratto tra Malvaro e Isolona – dalla sez. LAV73 alla LAV63

- **Profili idraulici**
- **Sezioni**
- **Tabelle dei risultati**

Torrente Lavagna Plan: 01_sett14

Lavagna Malvaro-Isolona



Legend	
EG Q500	(Dotted Green Line)
PL Q500	(Dotted Blue Line)
EG Q200	(Solid Green Line)
PL Q200	(Solid Blue Line)
EG Q50	(Dashed Green Line)
PL Q50	(Dashed Blue Line)
Fondo	(Solid Black Line with Markers)
Sponda sx	(Dashed Red Line)
Sponda dx	(Dotted Green Line)

LAV-70

LAV-71

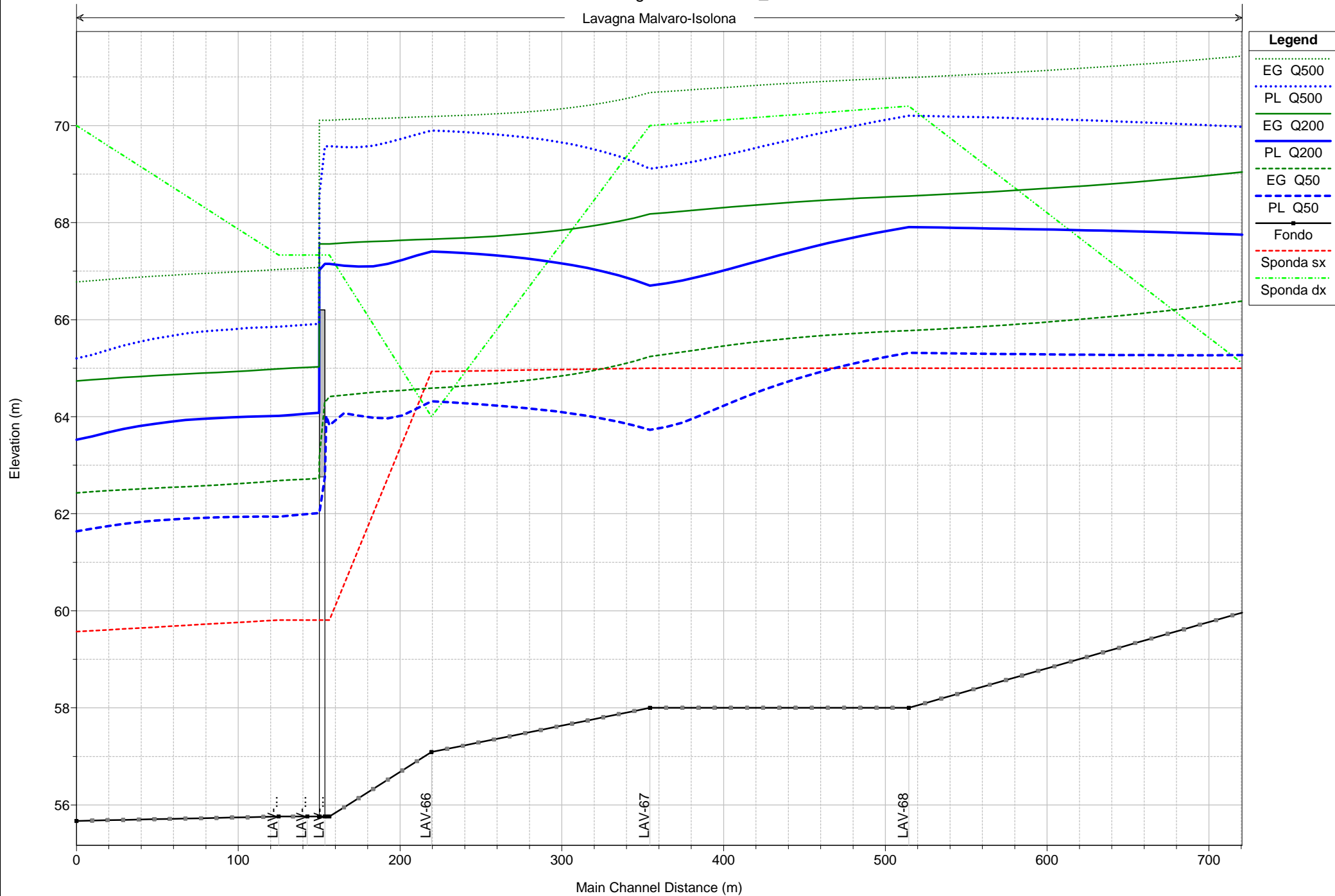
LAV-72

LAV-73

1 cm Horiz. = 30 m 1 cm Vert. = 1 m

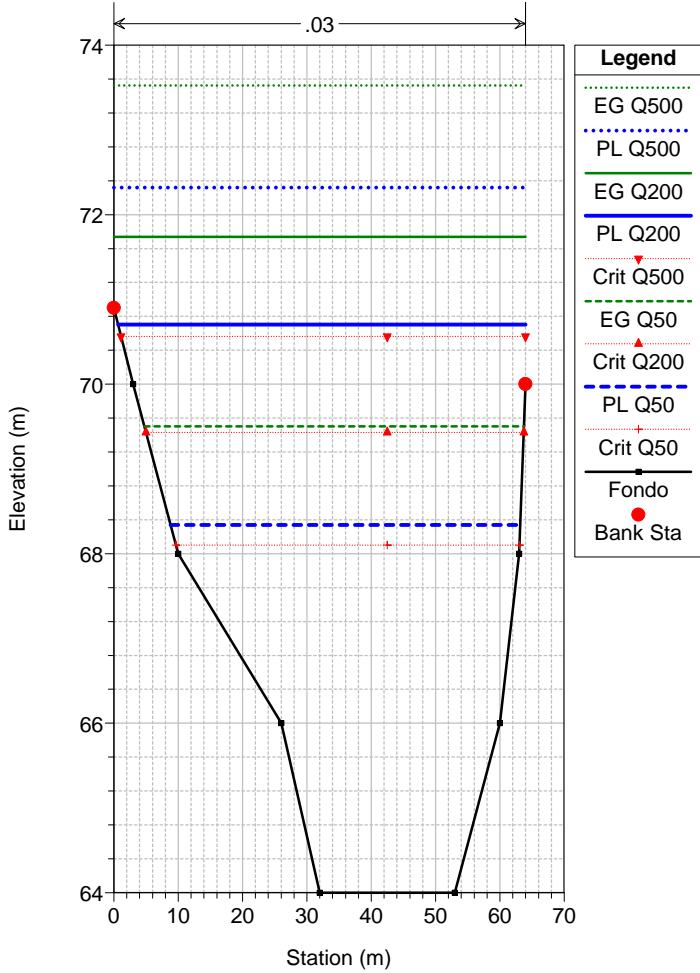
Torrente Lavagna Plan: 01_sett14

Lavagna Malvaro-Isolona

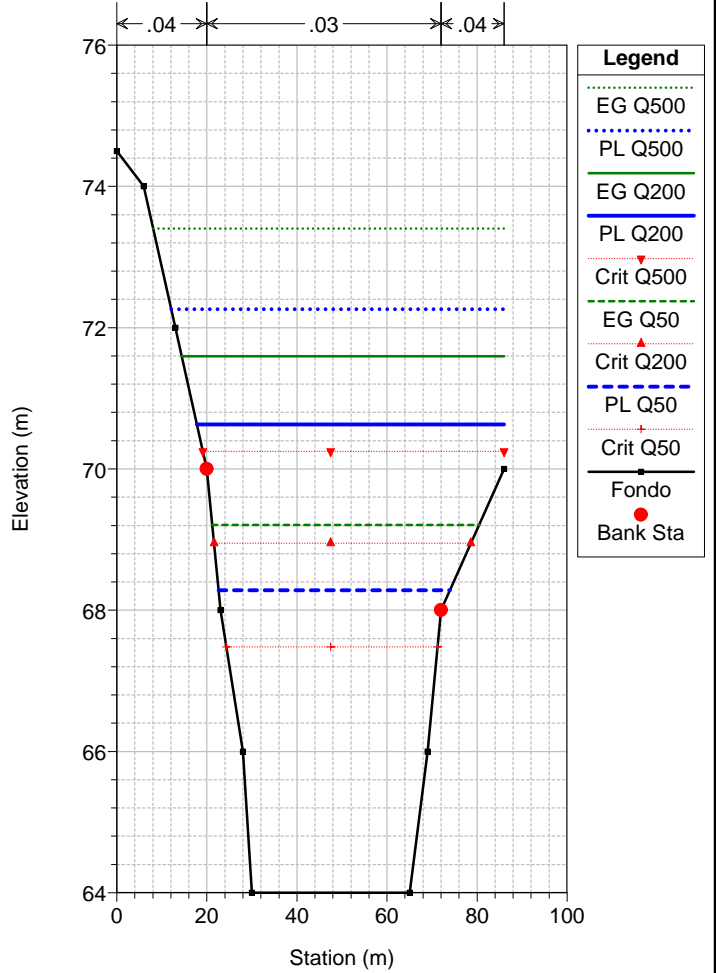


1 cm Horiz. = 30 m 1 cm Vert. = 1 m

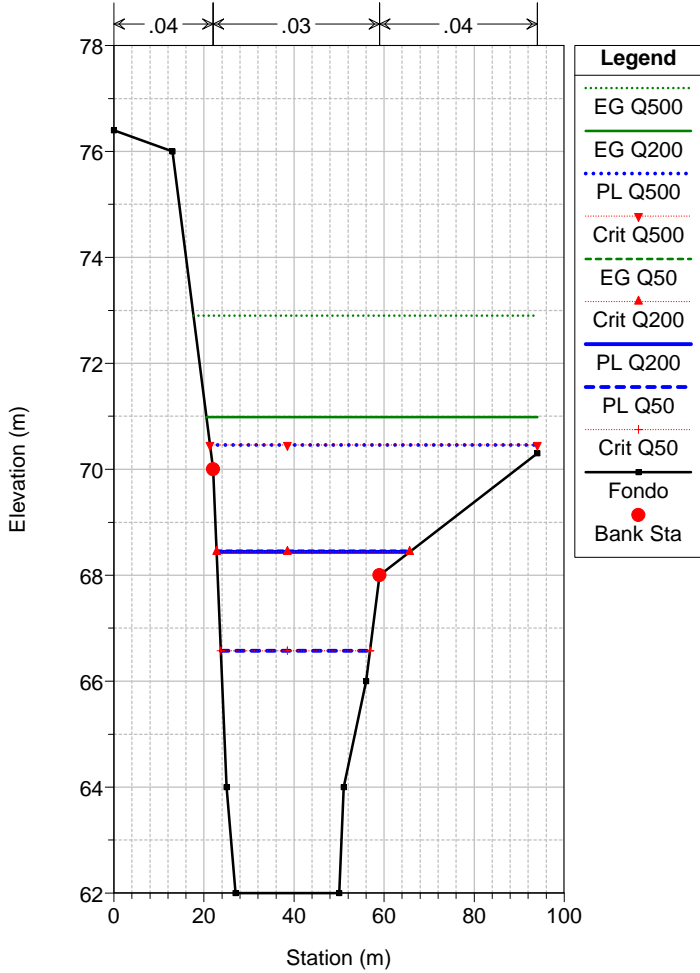
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LAV-73



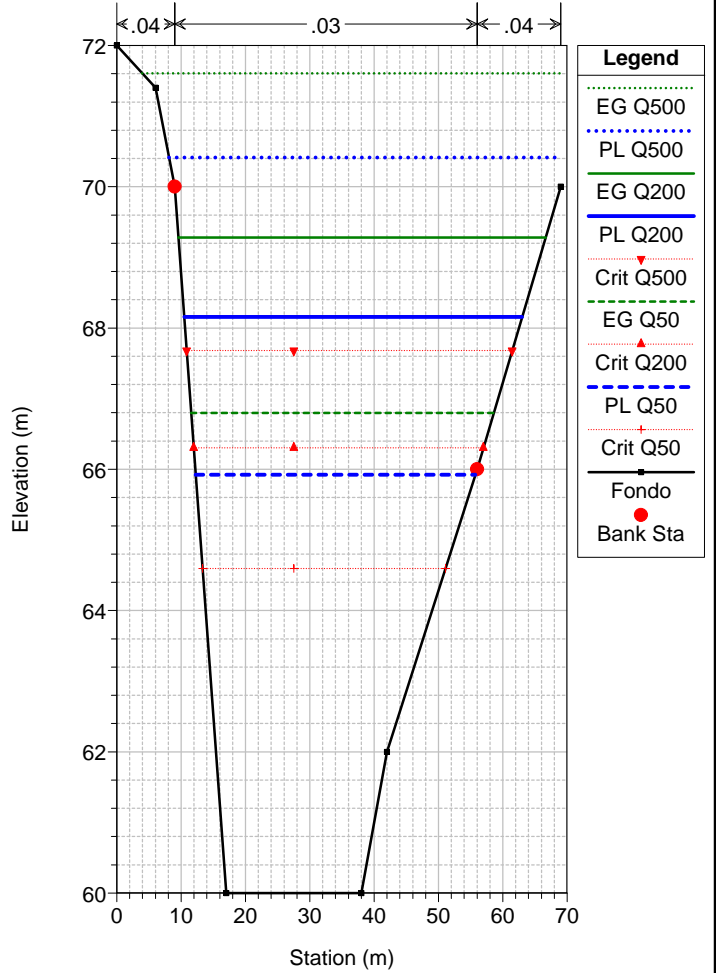
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LAV-72



Torrente Lavagna Plan: 01_sett14
LAV-71

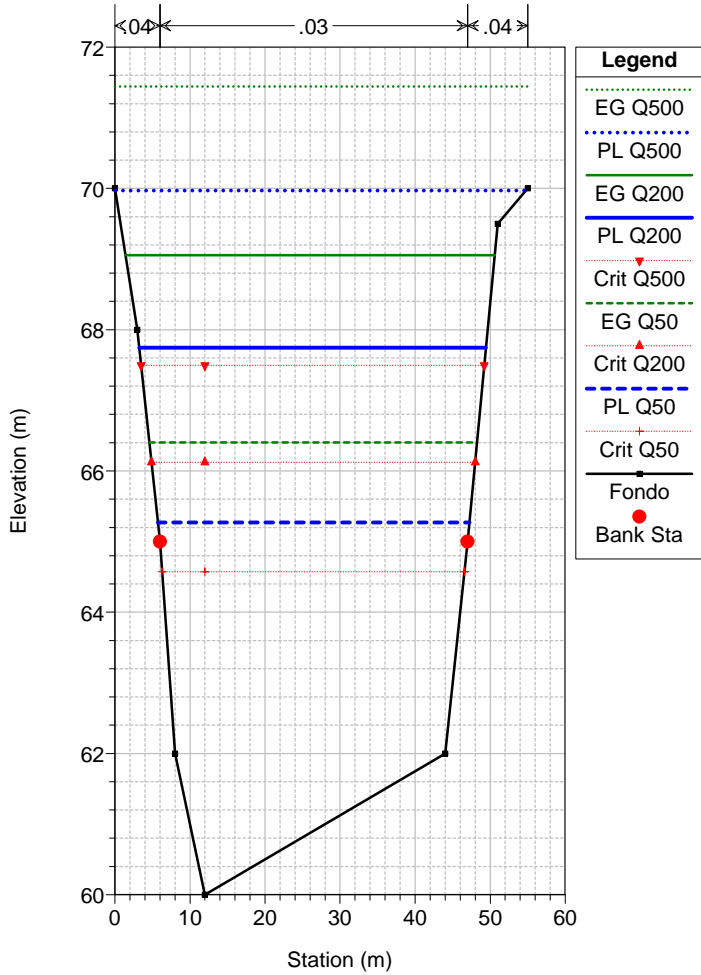


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LAV-70



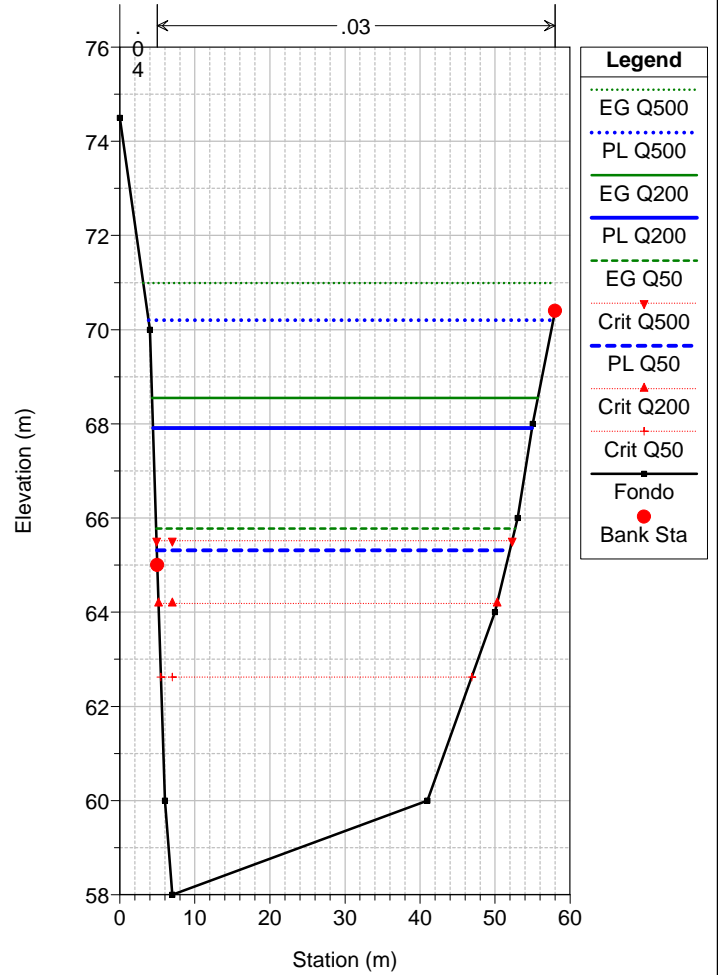
Torrente Lavagna Plan: 01_sett14

LAV-69



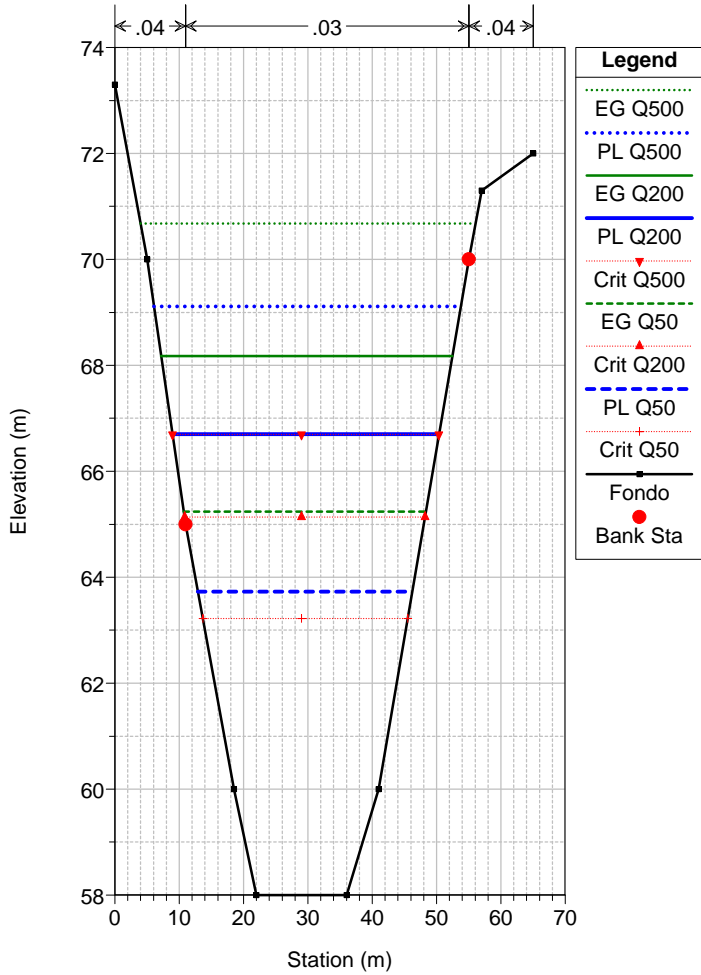
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LAV-68



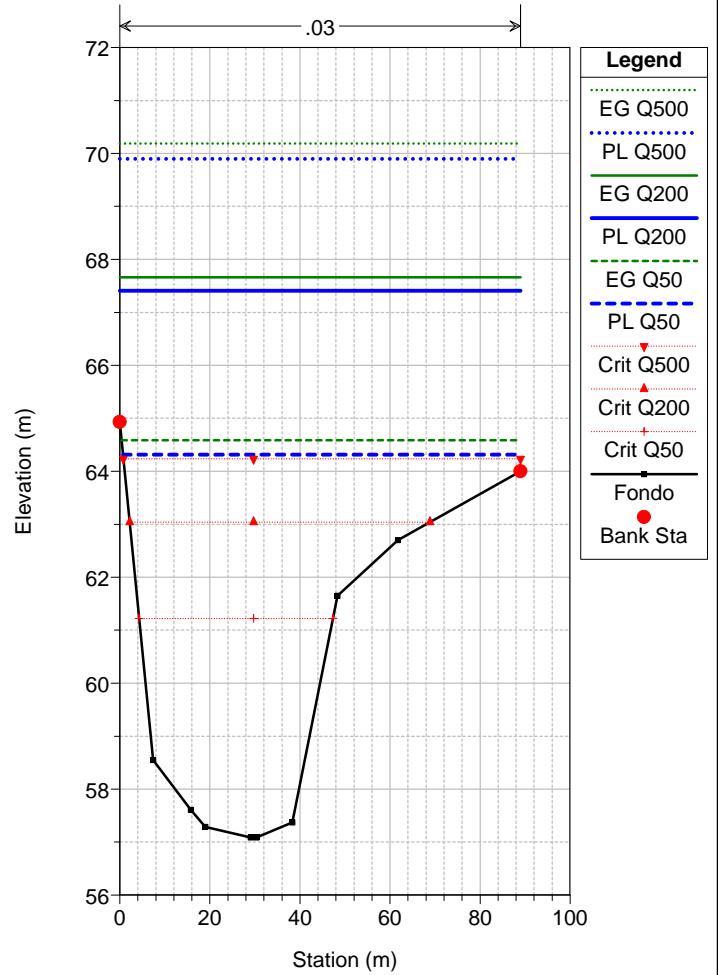
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LAV-67



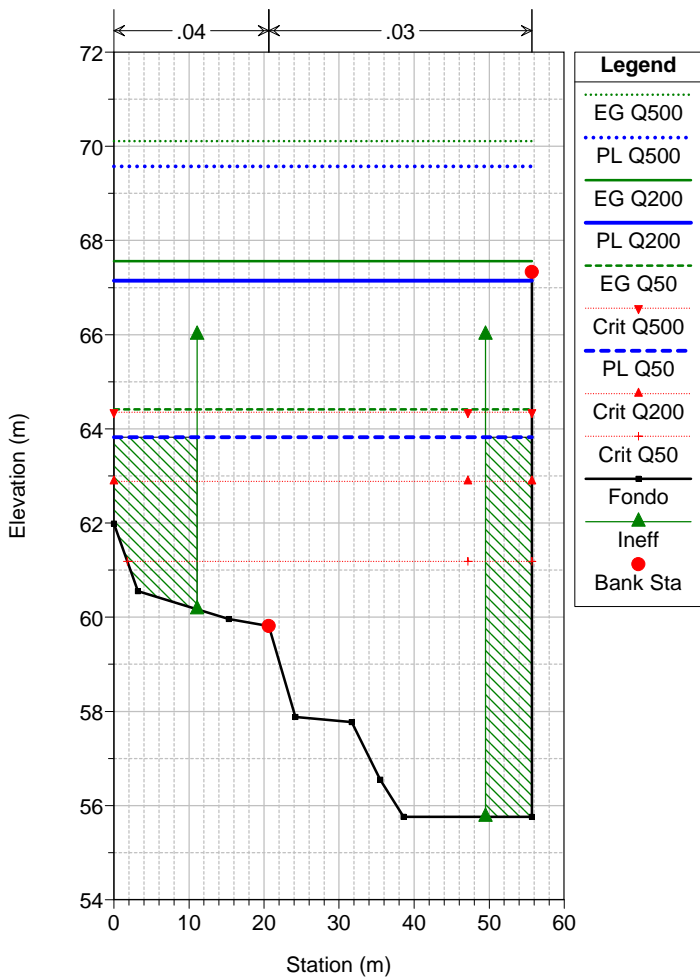
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LAV-66



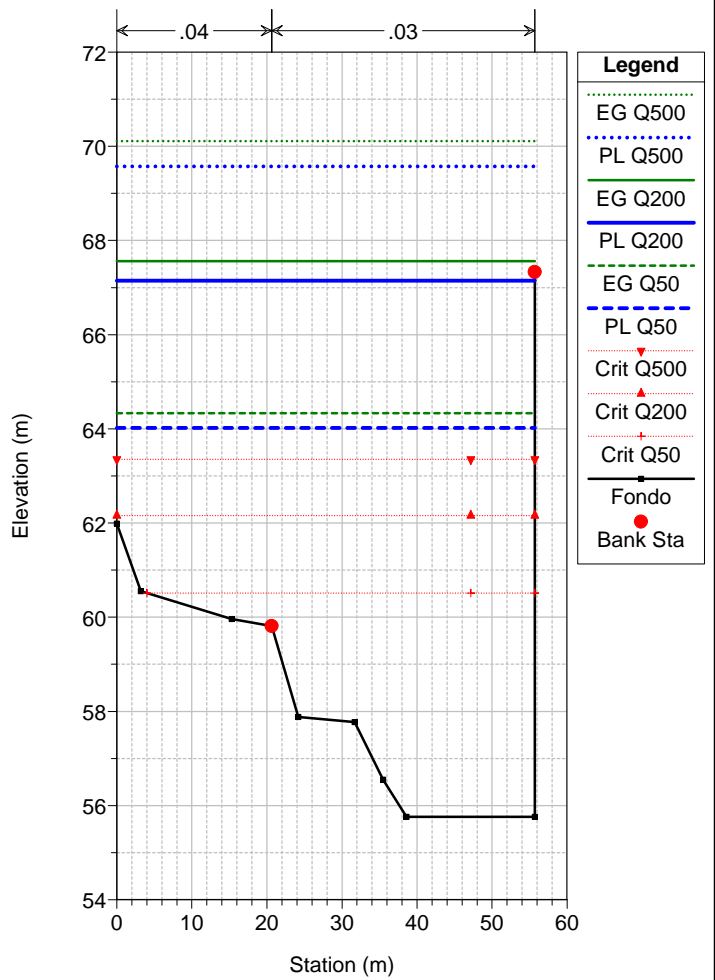
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LAV-65



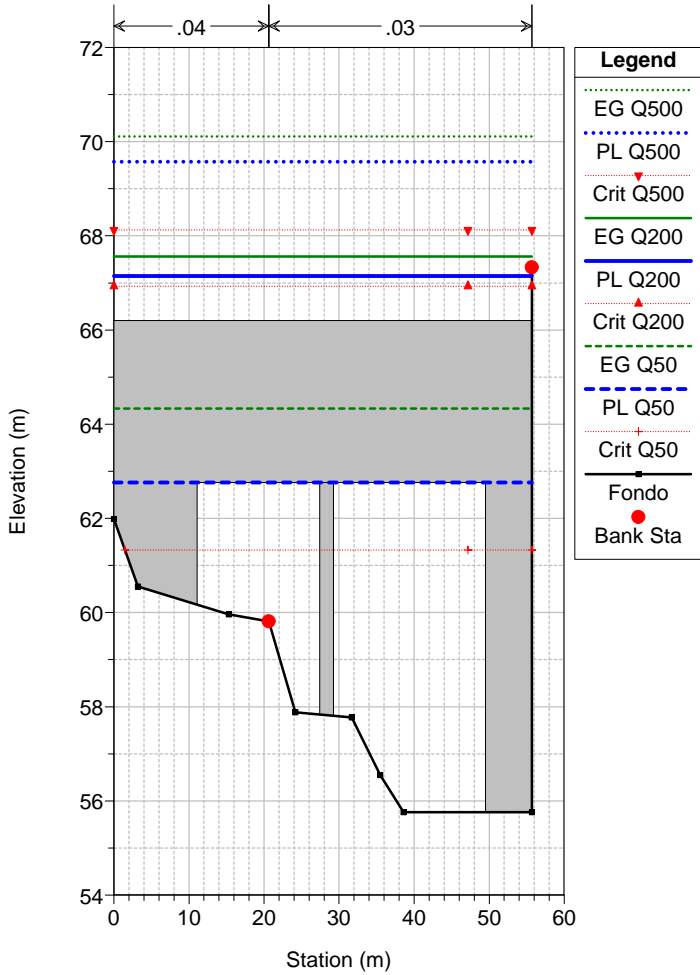
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LAV-65



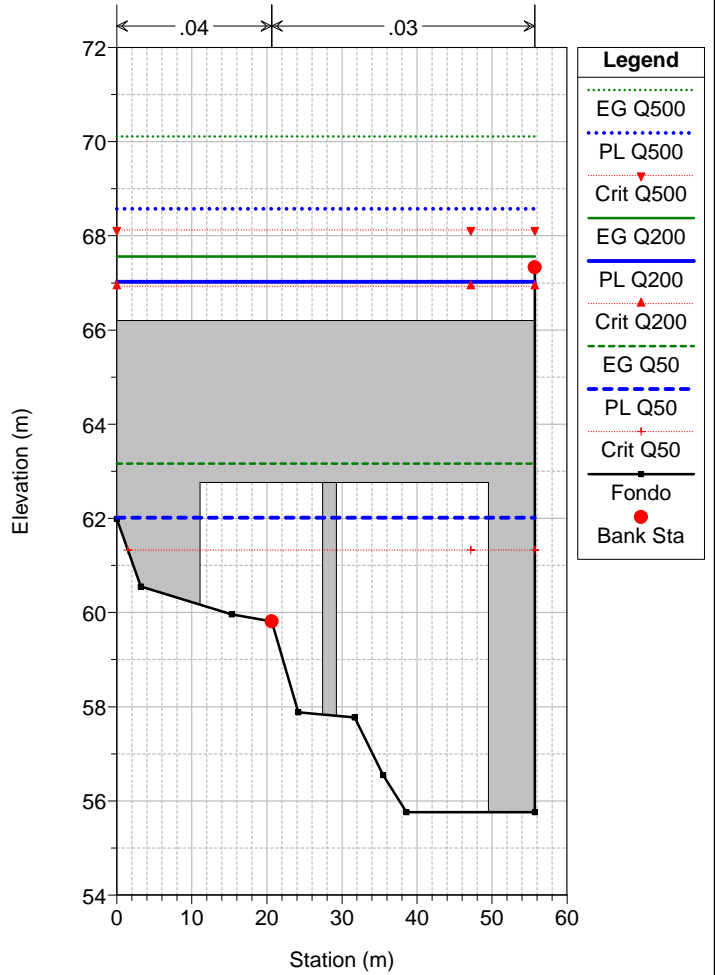
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LAV-PT09



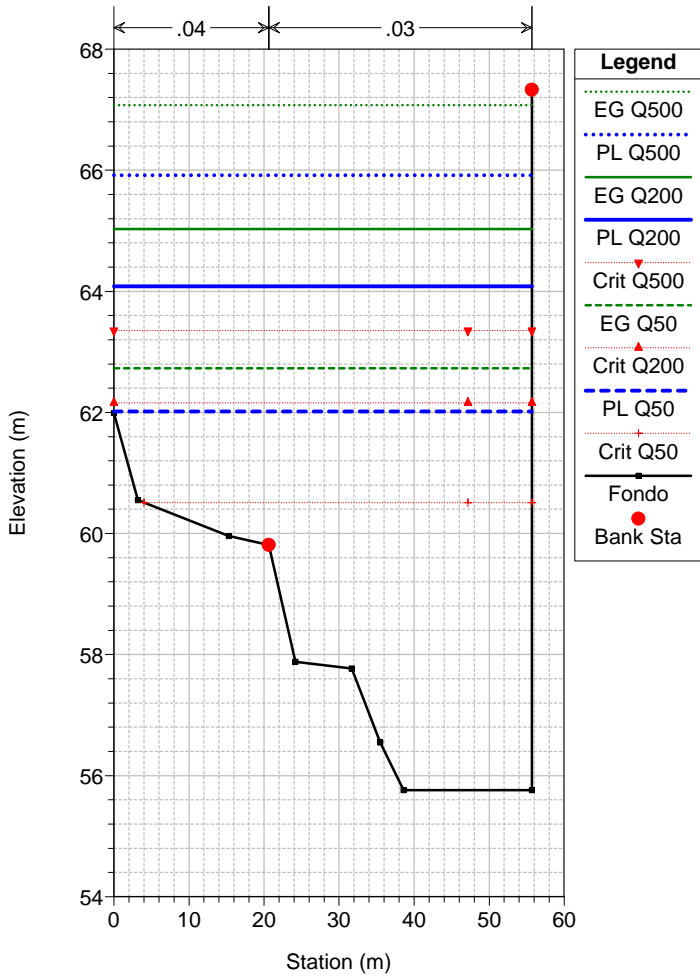
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LAV-PT09



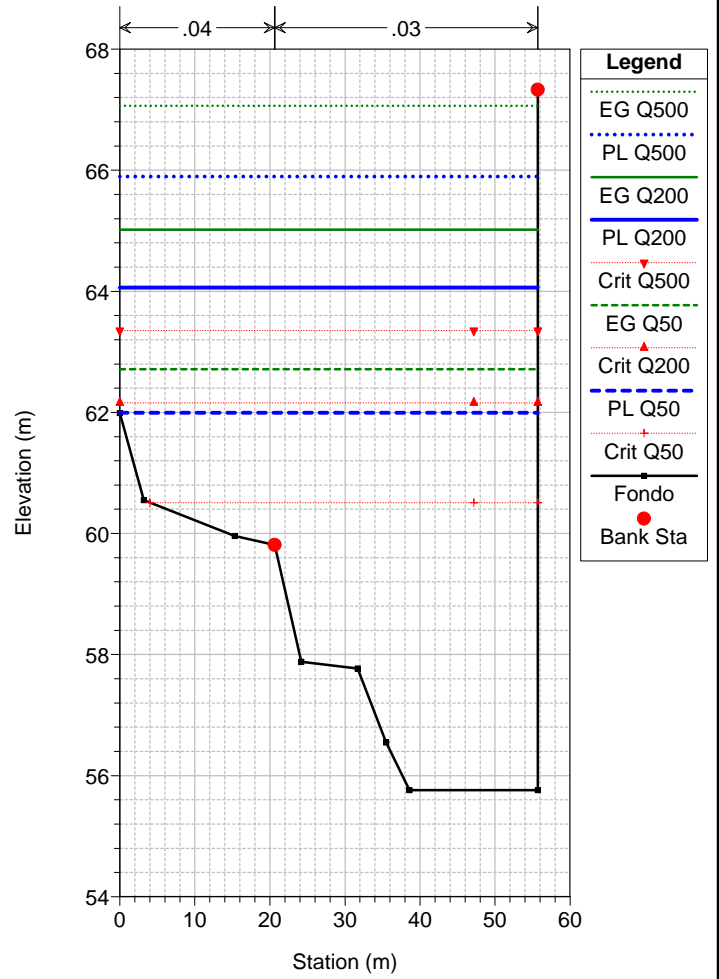
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LAV-65



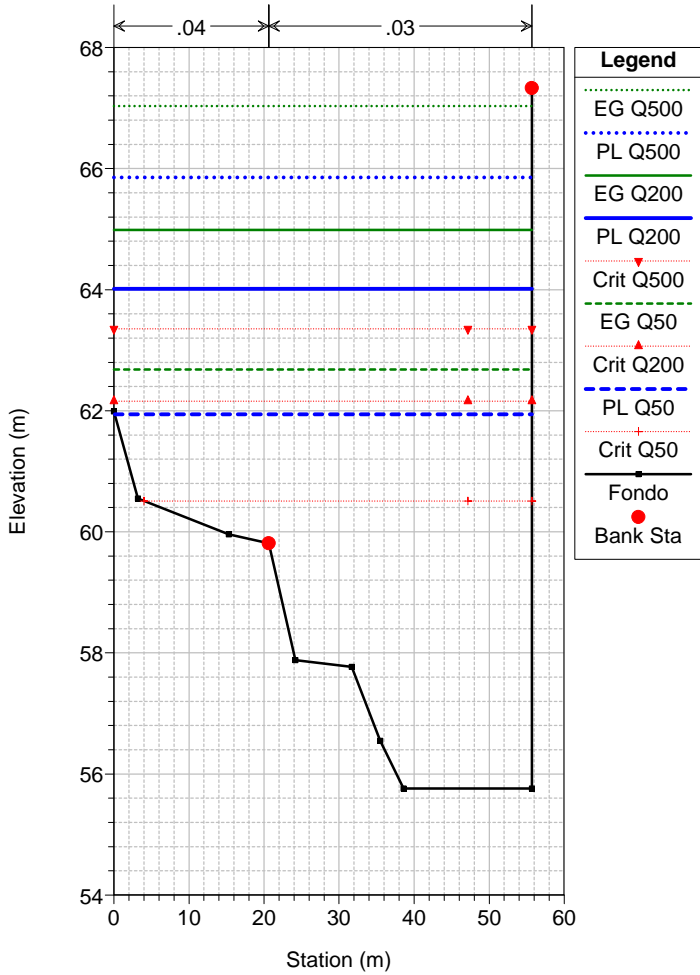
Torrente Lavagna Plan: 01_sett14

LAV-65



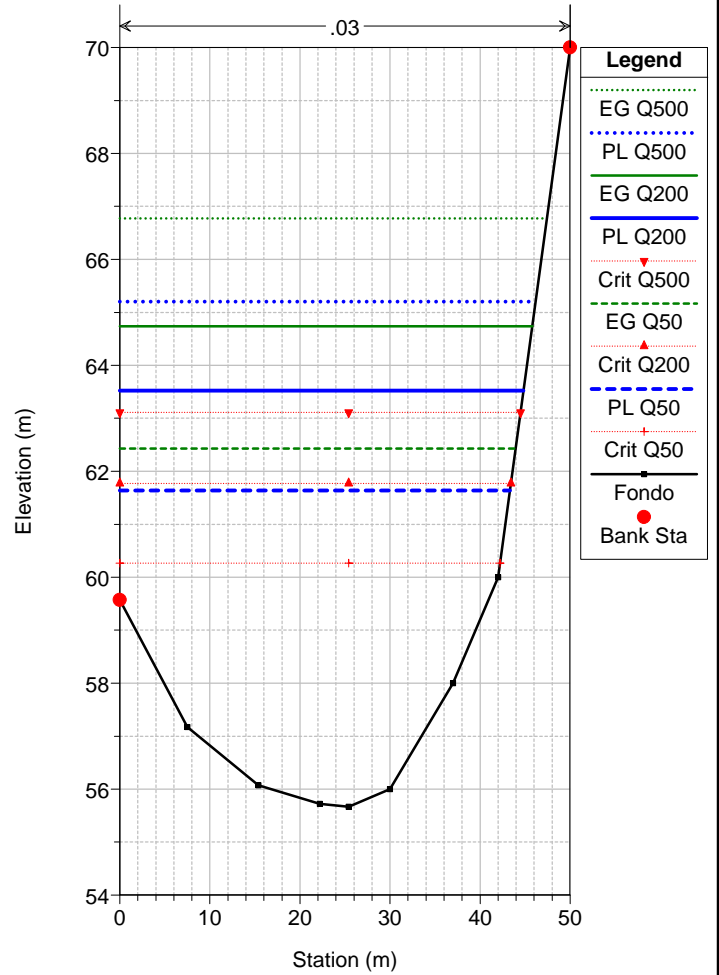
Torrente Lavagna Plan: 01_sett14

LAV-64



Torrente Lavagna Plan: 01_sett14

LAV-63



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
Malvaro-Isolona	47.1 LAV-73	Q50	766.00	64.00	68.34	70.90	2.56	70.00	1.66	68.10	69.50	0.005064	4.78	160.16	54.35	0.89
Malvaro-Isolona	47.1 LAV-73	Q200	1350.00	64.00	70.70	70.90	0.20	70.00	-0.70	69.43	71.74	0.002478	4.50	299.67	63.34	0.66
Malvaro-Isolona	47.1 LAV-73	Q500	1960.00	64.00	72.32	70.90	-1.42	70.00	-2.32	70.56	73.52	0.002088	4.86	403.20	64.00	0.62
Malvaro-Isolona	47 LAV-72	Q50	766.00	64.00	68.28	70.00	1.72	68.00	-0.28	67.48	69.21	0.003100	4.26	180.21	51.41	0.71
Malvaro-Isolona	47 LAV-72	Q200	1350.00	64.00	70.63	70.00	-0.63	68.00	-2.63	68.95	71.59	0.001806	4.39	323.35	68.21	0.58
Malvaro-Isolona	47 LAV-72	Q500	1960.00	64.00	72.26	70.00	-2.26	68.00	-4.26	70.25	73.40	0.001571	4.84	439.30	73.92	0.57
Malvaro-Isolona	46 LAV-71	Q50	766.00	62.00	66.57	70.00	3.43	68.00	1.43	66.57	68.47	0.006645	6.10	125.60	33.14	1.00
Malvaro-Isolona	46 LAV-71	Q200	1350.00	62.00	68.44	70.00	1.56	68.00	-0.44	68.44	70.98	0.005979	7.07	192.30	42.89	0.98
Malvaro-Isolona	46 LAV-71	Q500	1960.00	62.00	70.46	70.00	-0.46	68.00	-2.46	70.46	72.90	0.004076	7.07	310.88	72.69	0.84
Malvaro-Isolona	45 LAV-70	Q50	766.00	60.00	65.92	70.00	4.08	66.00	0.08	64.60	66.80	0.002503	4.14	185.09	43.47	0.64
Malvaro-Isolona	45 LAV-70	Q200	1350.00	60.00	68.16	70.00	1.84	66.00	-2.16	66.30	69.28	0.001991	4.71	292.23	52.53	0.60
Malvaro-Isolona	45 LAV-70	Q500	1960.00	60.00	70.41	70.00	-0.41	66.00	-4.41	67.68	71.61	0.001507	4.90	420.92	60.88	0.54
Malvaro-Isolona	44 LAV-69	Q50	766.00	60.00	65.27	65.00	-0.27	65.00	-0.27	64.57	66.40	0.003537	4.71	162.66	41.51	0.76
Malvaro-Isolona	44 LAV-69	Q200	1350.00	60.00	67.75	65.00	-2.75	65.00	-2.75	66.12	69.05	0.002156	5.08	271.21	46.19	0.64
Malvaro-Isolona	44 LAV-69	Q500	1960.00	60.00	69.97	65.00	-4.97	65.00	-4.97	67.49	71.44	0.001655	5.43	380.25	54.70	0.59
Malvaro-Isolona	43 LAV-68	Q50	766.00	58.00	65.32	65.00	-0.32	70.40	5.08	62.62	65.77	0.001016	3.00	254.99	47.04	0.41
Malvaro-Isolona	43 LAV-68	Q200	1350.00	58.00	67.91	65.00	-2.91	70.40	2.49	64.19	68.55	0.000909	3.54	381.78	50.49	0.41
Malvaro-Isolona	43 LAV-68	Q500	1960.00	58.00	70.20	65.00	-5.20	70.40	0.20	65.52	70.99	0.000847	3.93	501.42	53.93	0.41
Malvaro-Isolona	42 LAV-67	Q50	766.00	58.00	63.73	65.00	1.27	70.00	6.27	63.22	65.24	0.004441	5.45	140.51	33.31	0.85
Malvaro-Isolona	42 LAV-67	Q200	1350.00	58.00	66.70	65.00	-1.70	70.00	3.30	65.14	68.18	0.002574	5.39	251.86	41.42	0.68
Malvaro-Isolona	42 LAV-67	Q500	1960.00	58.00	69.11	65.00	-4.11	70.00	0.89	66.69	70.68	0.001987	5.57	359.25	47.68	0.62
Malvaro-Isolona	41 LAV-66	Q50	772.00	57.09	64.32	64.93	0.61	64.00	-0.32	61.22	64.59	0.000855	2.31	334.52	88.29	0.38
Malvaro-Isolona	41 LAV-66	Q200	1360.00	57.09	67.41	64.93	-2.48	64.00	-3.41	63.04	67.66	0.000394	2.23	609.24	89.00	0.27
Malvaro-Isolona	41 LAV-66	Q500	1974.00	57.09	69.90	64.93	-4.97	64.00	-5.90	64.23	70.19	0.000315	2.37	831.16	89.00	0.25
Malvaro-Isolona	40.2 LAV-65	Q50	772.00	55.76	63.82	59.81	-4.01	67.33	3.51	61.19	64.42	0.000882	3.53	236.47	55.71	0.43
Malvaro-Isolona	40.2 LAV-65	Q200	1360.00	55.76	67.15	59.81	-7.34	67.33	0.18	62.89	67.56	0.000537	3.03	507.47	55.71	0.30
Malvaro-Isolona	40.2 LAV-65	Q500	1974.00	55.76	69.57	59.81	-9.76	67.33	-2.24	64.35	70.11	0.000572	3.47	642.55	55.71	0.31
Malvaro-Isolona	40.1 LAV-65	Q50	772.00	55.76	64.02	59.81	-4.21	67.33	3.31	60.51	64.33	0.000585	2.61	332.99	55.71	0.31
Malvaro-Isolona	40.1 LAV-65	Q200	1360.00	55.76	67.15	59.81	-7.34	67.33	0.18	62.16	67.56	0.000537	3.03	507.41	55.71	0.30
Malvaro-Isolona	40.1 LAV-65	Q500	1974.00	55.76	69.57	59.81	-9.76	67.33	-2.24	63.35	70.11	0.000573	3.47	642.48	55.71	0.31
Malvaro-Isolona	40 LAV-PT09		Bridge													
Malvaro-Isolona	39.9 LAV-65	Q50	772.00	55.76	62.01	59.81	-2.20	67.33	5.32	60.51	62.73	0.001843	3.86	221.43	55.71	0.53
Malvaro-Isolona	39.9 LAV-65	Q200	1360.00	55.76	64.08	59.81	-4.27	67.33	3.25	62.16	65.03	0.001761	4.55	336.58	55.71	0.53
Malvaro-Isolona	39.9 LAV-65	Q500	1974.00	55.76	65.91	59.81	-6.10	67.33	1.42	63.35	67.08	0.001724	5.08	438.71	55.71	0.53
Malvaro-Isolona	39.8 LAV-65	Q50	772.00	55.76	61.99	59.81	-2.18	67.33	5.34	60.51	62.72	0.001871	3.88	220.23	55.71	0.54
Malvaro-Isolona	39.8 LAV-65	Q200	1360.00	55.76	64.06	59.81	-4.25	67.33	3.27	62.16	65.02	0.001777	4.56	335.53	55.71	0.54
Malvaro-Isolona	39.8 LAV-65	Q500	1974.00	55.76	65.90	59.81	-6.09	67.33	1.43	63.35	67.06	0.001735	5.09	437.71	55.71	0.54
Malvaro-Isolona	39 LAV-64	Q50	772.00	55.76	61.94	59.81	-2.13	67.33	5.39	60.51	62.68	0.001940	3.93	217.29	55.60	0.55
Malvaro-Isolona	39 LAV-64	Q200	1360.00	55.76	64.02	59.81	-4.21	67.33	3.31	62.16	64.99	0.001818	4.60	332.88	55.71	0.54
Malvaro-Isolona	39 LAV-64	Q500	1974.00	55.76	65.85	59.81	-6.04	67.33	1.48	63.35	67.03	0.001764	5.12	435.28	55.71	0.54
Malvaro-Isolona	38 LAV-63	Q50	772.00	55.67	61.64	59.57	-2.07	70.00	8.36	60.27	62.43	0.002112	3.95	195.61	43.31	0.59
Malvaro-Isolona	38 LAV-63	Q200	1360.00	55.67	63.52	59.57	-3.95	70.00	6.48	61.77	64.74	0.002261	4.88	278.74	44.82	0.62

HEC-RAS Plan: 01_sett14 River: Lavagna Reach: Malvaro-Isolona (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
Malvaro-Isolona	38	LAV-63	Q500	1974.00	55.67	65.20	59.57	-5.63	70.00	4.80	63.11	66.78	0.002338	5.56	355.07	46.16	0.64