



CIUTAT DE L'ALGUER
CITTA' DI ALGHERO

COMUNE DI ALGHERO

PROVINCIA DI SASSARI



REGIONE AUTONOMA DE SARDIGNA
REGIONE AUTONOMA DELLA SARDEGNA

STUDI DI DETTAGLIO PER L'ADEGUAMENTO DEGLI STRUMENTI URBANISTICI COMUNALI AL PIANO DI ASSETTO IDROGEOLOGICO ai sensi dell'art.8 comma 2 bis delle N.A. del PAI (rev. 03.05.2018)

Area di indagine: Intero territorio comunale

STUDIO ASSETTO IDRAULICO

ELABORATO :						
REPORT DEI CALCOLI IDRAULICI IN MOTO PERMANENTE						
REVISIONI				ALLEGATO C-1	SCALA	
n°	MODIFICA	DATA	CTRL		CODICE	
01	Consegna	Ottobre 2019	FC		NOTE	

I Professionisti incaricati :
Ing. Fabio Cambula

Geol. Alessandro Muscas

Arch. Laura Carbini

Il Dirigente
Ing. Michele Fois

Ufficio del Piano Urbanistico
Ing. Fabio E. M. Spurio
Arch. Angelo Manunta
Geom. Franco Cherchi

L'Assessore all'Urbanistica
Dott. Emiliano Piras

Il Sindaco:
Dott. Mario Conoci

COMUNE DI ALGHERO (SS)

Studio di assetto idraulico ai sensi dell'art. 8 comma 2bis delle N.A. del PAI

Area d'indagine: perimetro oggetto di Variante del P.C.V.B.

SIMULAZIONI IN MOTO PERMANENTE

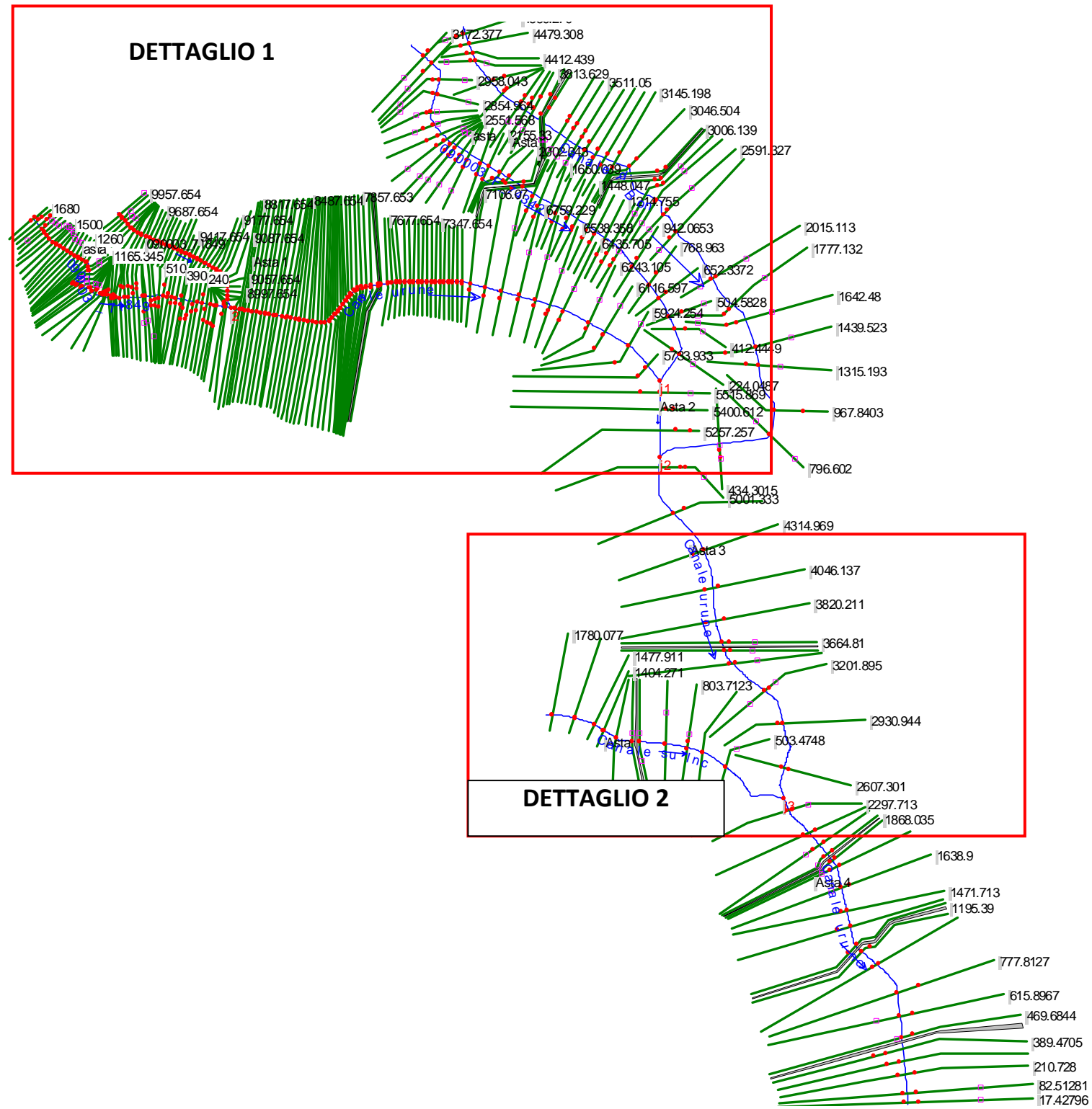
Gruppo del Canale URUNE

- Schemi planimetrici
- Profili longitudinali dei tiranti idrici per le portate con tempi di ritorno di 50-100-200-500 anni
- Sezioni trasversali con i tiranti idrici per le portate con tempi di ritorno di 50-100-200-500 anni
- Tabelle numeriche delle grandezze geometriche e idrauliche di input e output

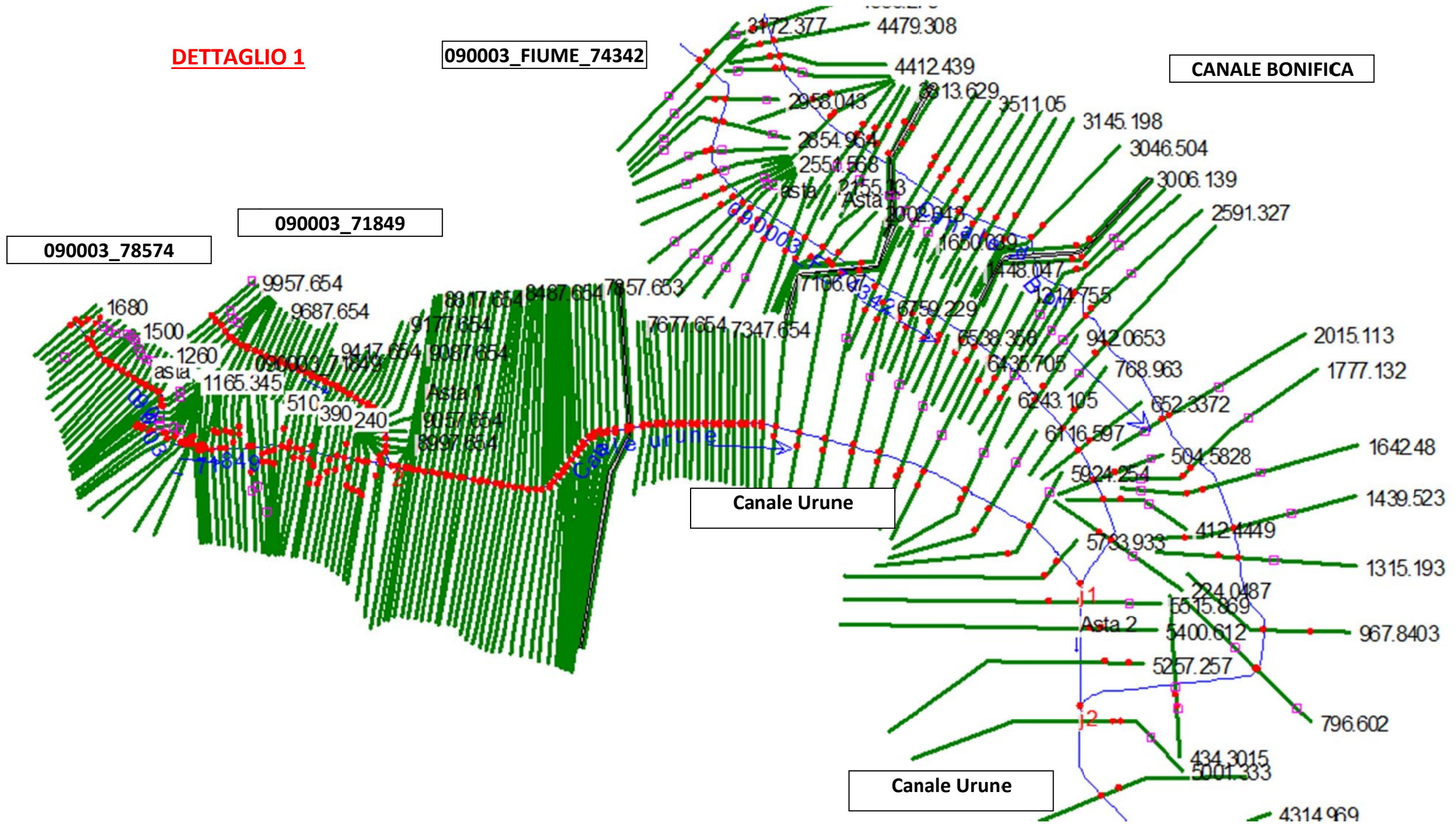
1 - Gruppo Canale Urune						
River	Reach	RS	PORTATE mc/s			
			tr 50	tr 100	tr 200	tr 500
090003_71849	asta	1680	4.477	5.109	5.749	6.636
090003_71849	asta	1050	9.755	11.206	12.669	14.675
090003_71849	asta	840.0001	25.533	29.995	34.494	40.53
090003_fiume_74342	Asta	3172.377	55.555	65.926	76.378	90.277
Canale di Bon	Asta	4556.279	17.062	20.456	23.914	28.604
Canale di Bon	Asta	2433.408	21.779	26.16	30.604	36.55
Canale su Inc	Asta	1780.077	21.098	25.065	29.118	34.686
Canale urune	090003_71849	9957.654	14.373	16.787	19.212	22.453
Canale urune	Asta 1	8847.654	41.522	49.048	56.631	66.73
Canale urune	Asta 1	8307.654	78.4	92.268	106.252	125.01
Canale urune	Asta 1	7677.654	81.094	97.293	113.717	135.676
Canale urune	Asta 2	5515.869	136.649	163.219	190.095	225.953
Canale urune	Asta 3	5001.333	185.027	219.868	254.999	301.73
Canale urune	Asta 4	2297.713	193.792	230.103	266.698	315.354
Canale urune	Asta 4	1025.208	208.612	247.962	287.631	340.385

River	Reach	PROFILI	CONDIZIONI AL CONTORNO	
			upstream	downstream
090003_71849	Asta	tutti	Critical depth	junction = 2
090003_74342	Asta	tutti	Critical depth	junction = 1
Canale di Bon	Asta	tutti	Critical depth	junction = 2
Canale su Inc	Asta	tutti	Critical depth	junction = 3
Canale urune	090003_71849	tutti	Critical depth	junction = 2
Canale urune	Asta 1	tutti	junction = 2	junction = 1
Canale urune	Asta 2	tutti	junction = 1	junction = 2
Canale urune	Asta 3	tutti	junction = 2	junction = 3
Canale urune	Asta 4	tutti	junction = 3	normal depth=0.001

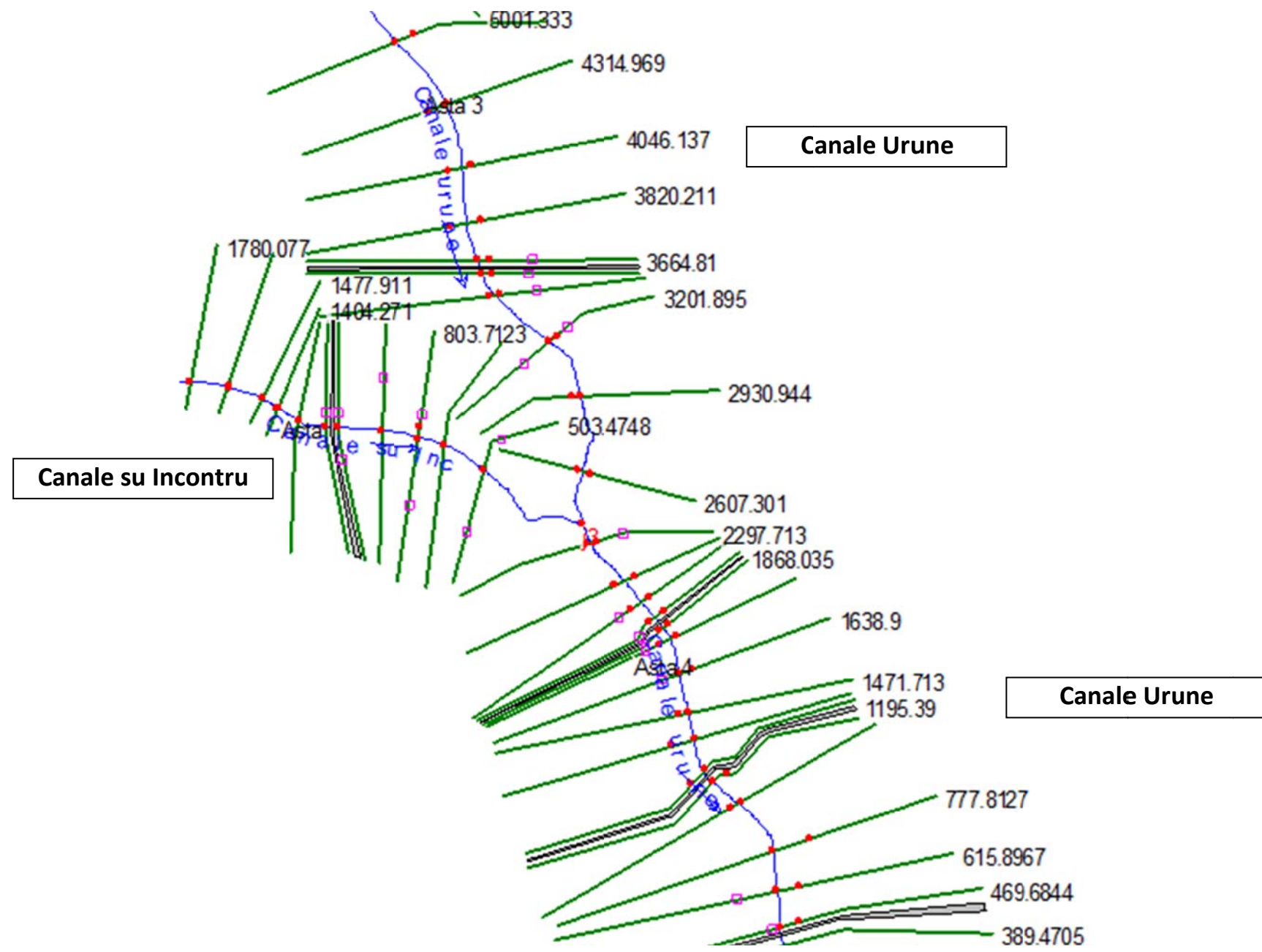
**SCHEMA PLANIMETRICO
GENERALE
GRUPPO "CANALE
URUNE"**



DETTAGLIO 1



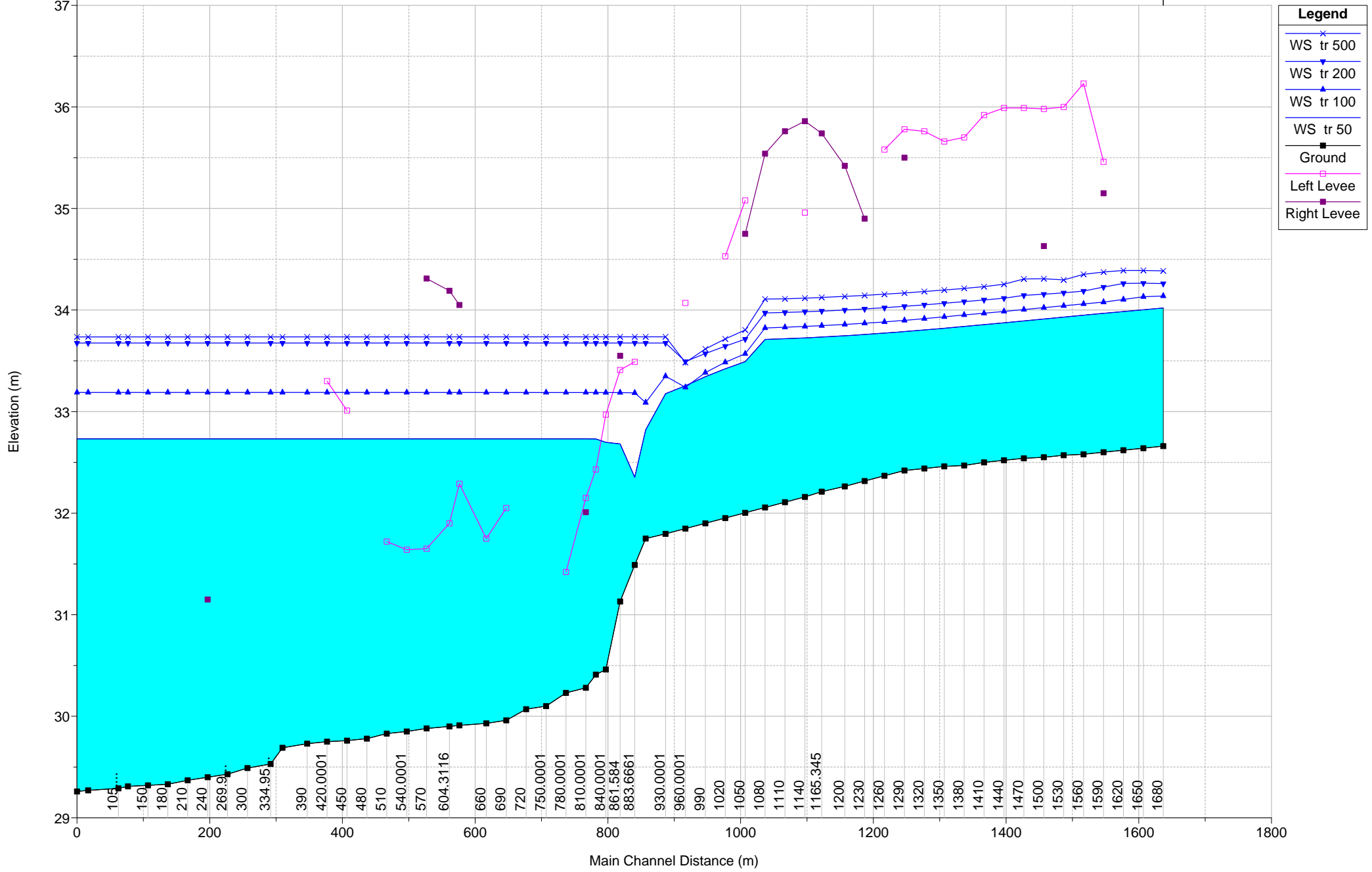
DETTAGLIO 2



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE

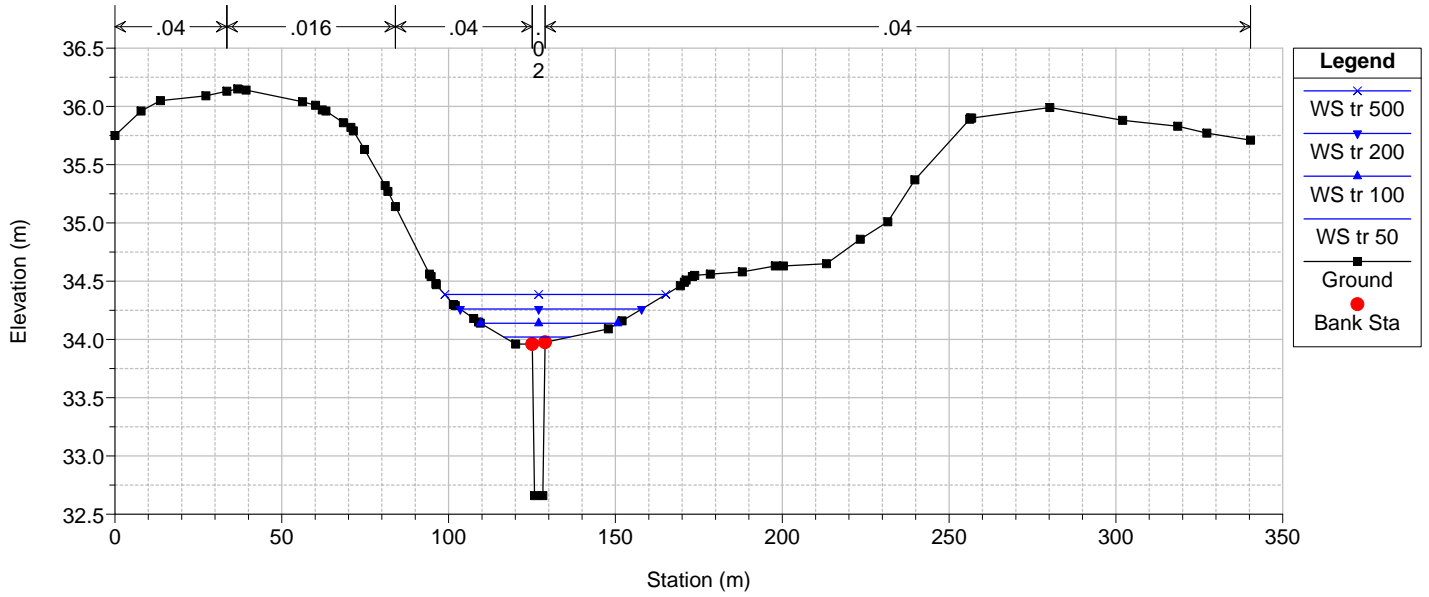
090003_78574 asta



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

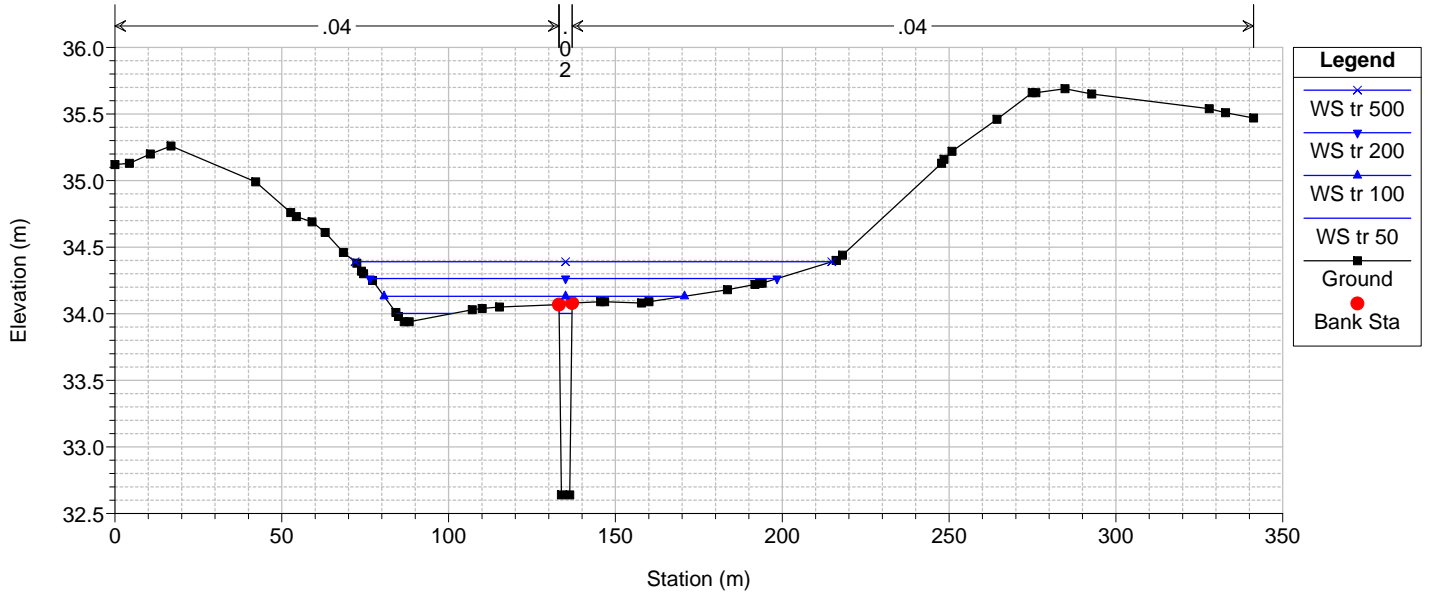
River = 090003_78574 Reach = asta RS = 1680 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

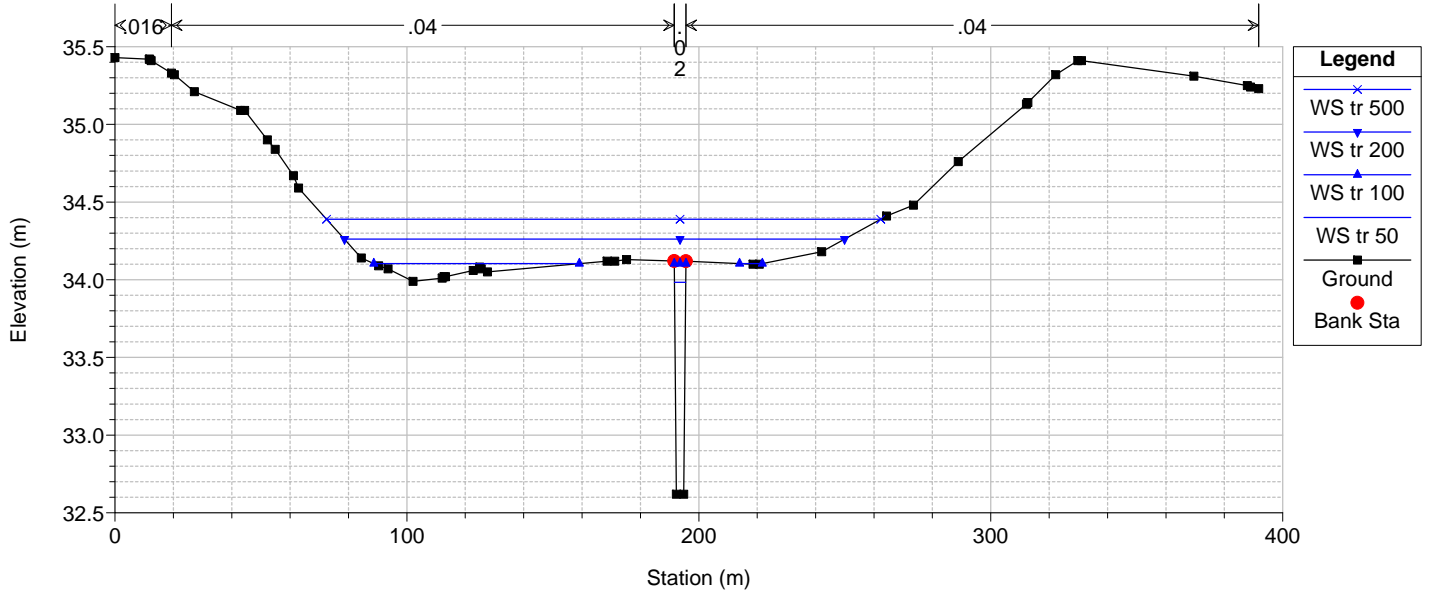
River = 090003_78574 Reach = asta RS = 1650 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

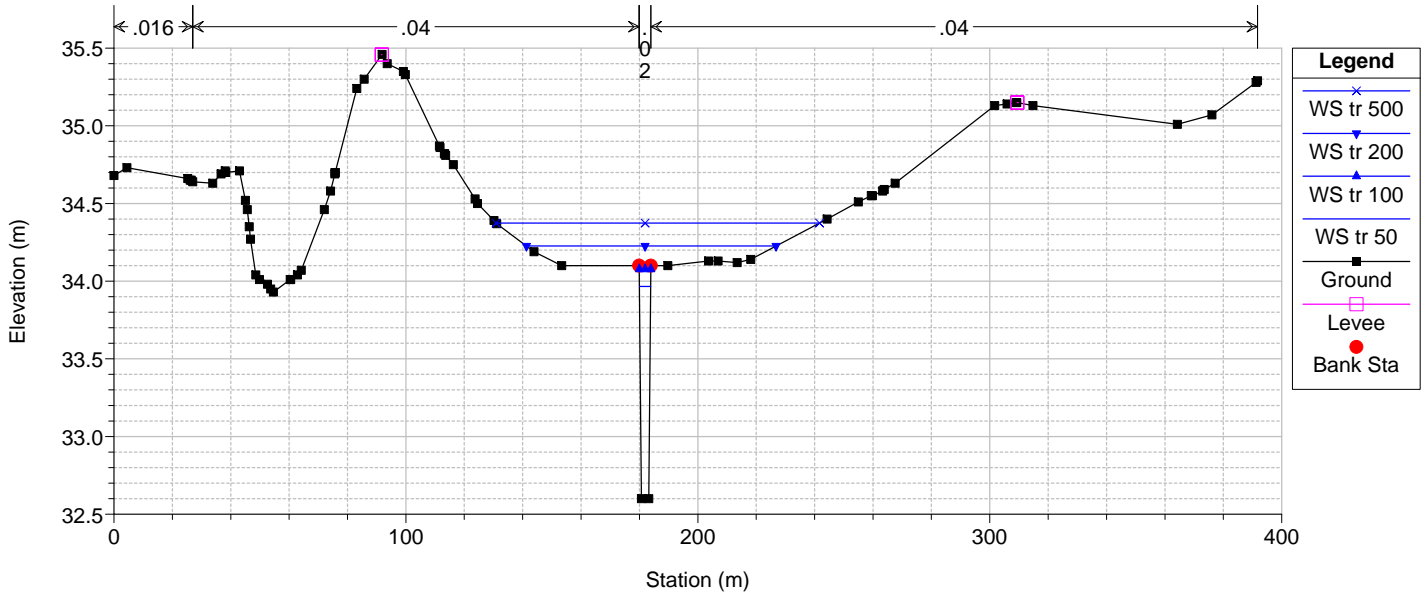
River = 090003_78574 Reach = asta RS = 1620 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

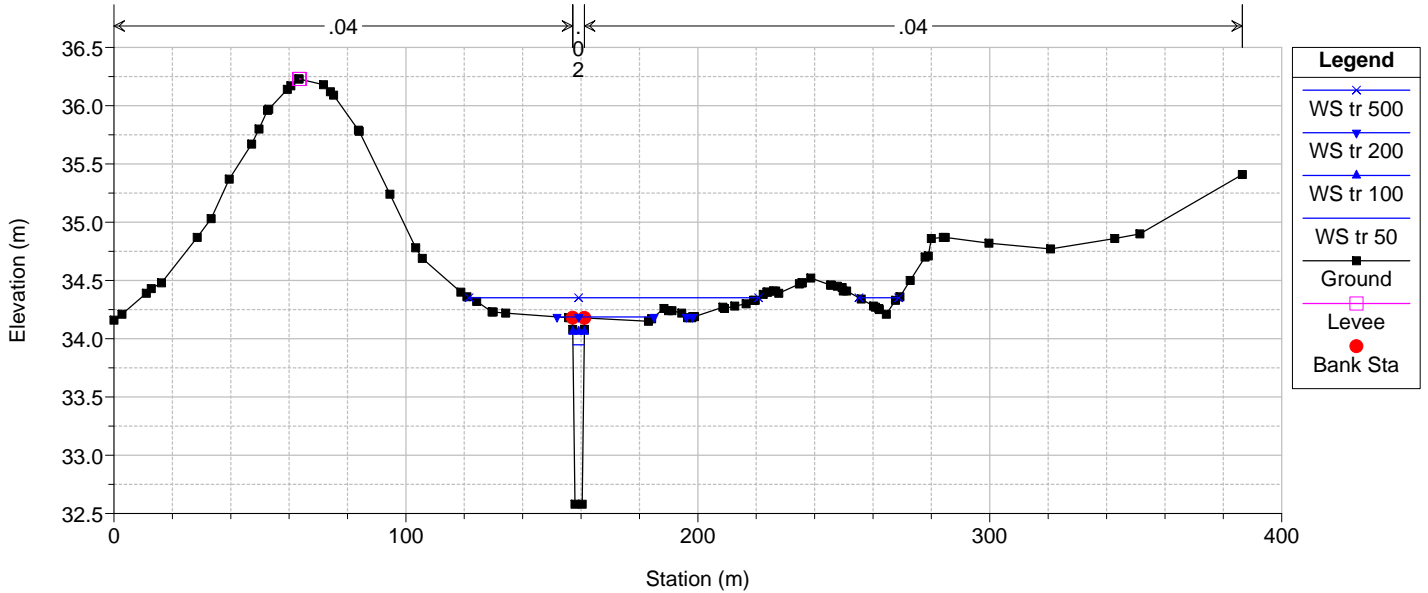
River = 090003_78574 Reach = asta RS = 1590 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

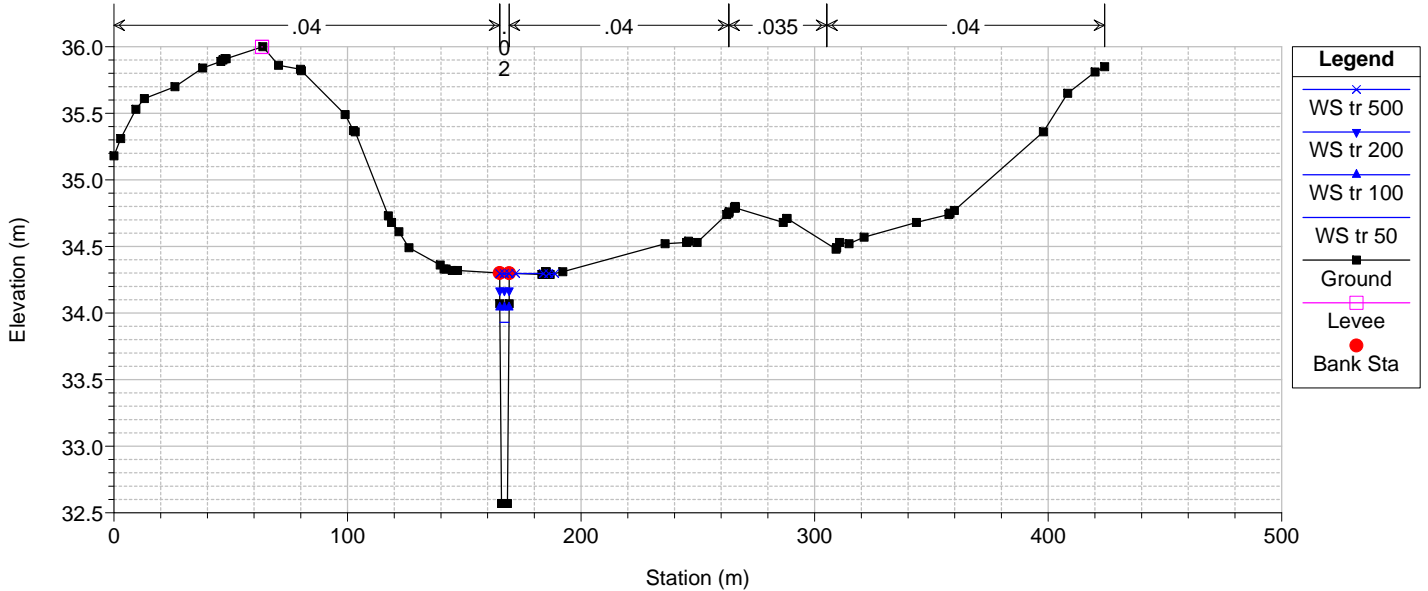
River = 090003_78574 Reach = asta RS = 1560 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

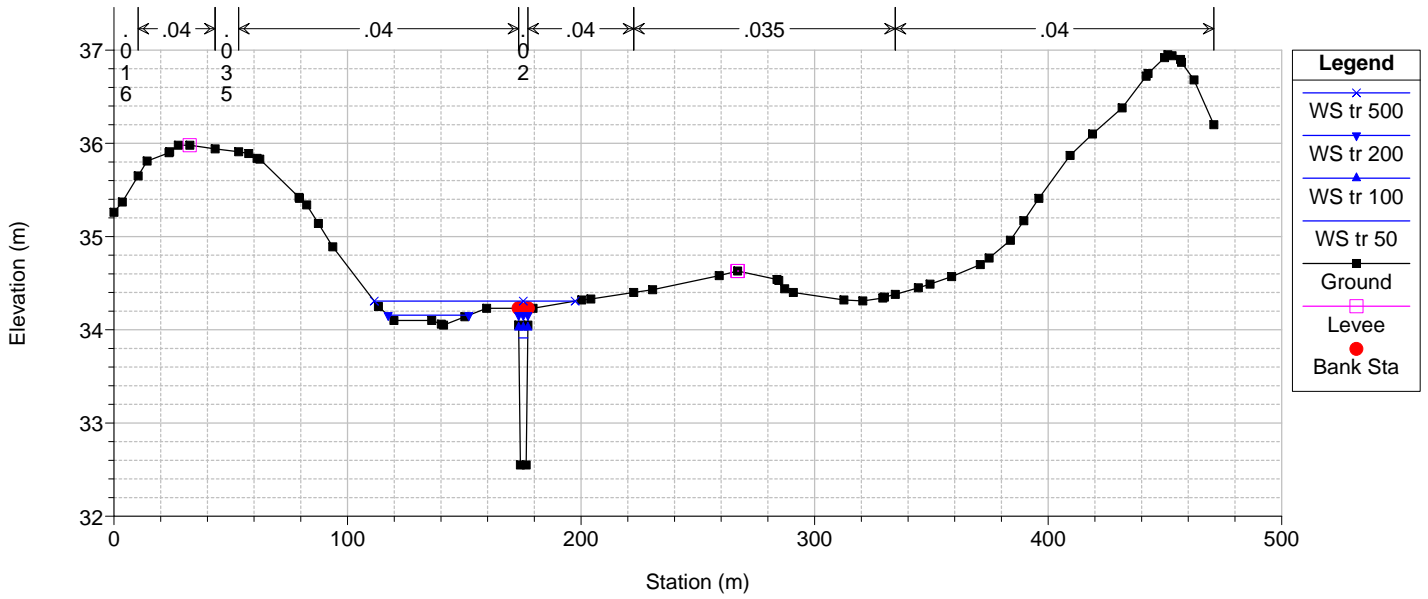
River = 090003_78574 Reach = asta RS = 1530 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

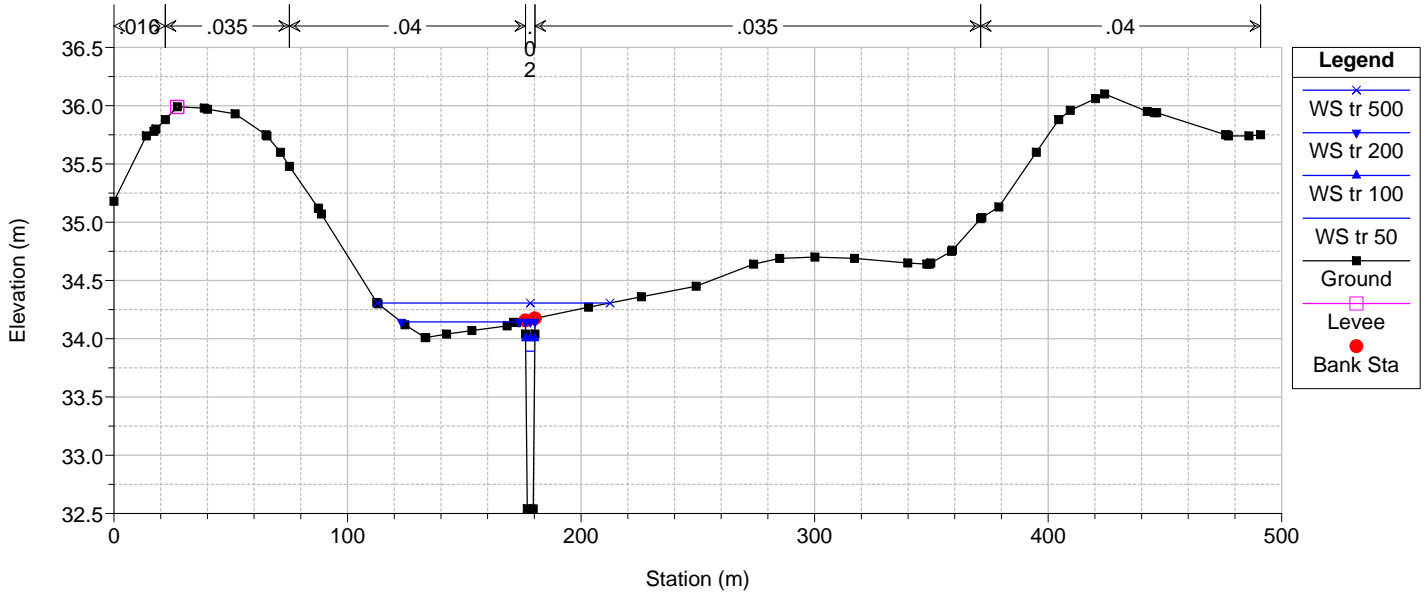
River = 090003_78574 Reach = asta RS = 1500 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

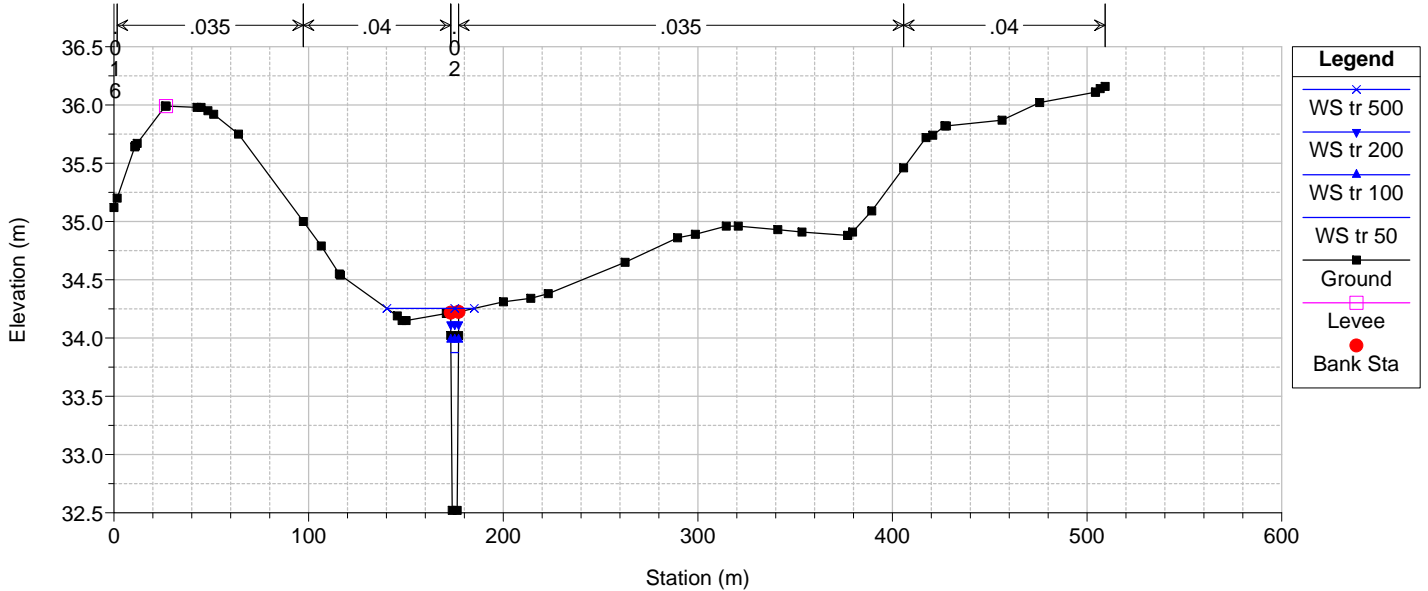
River = 090003_78574 Reach = asta RS = 1470 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

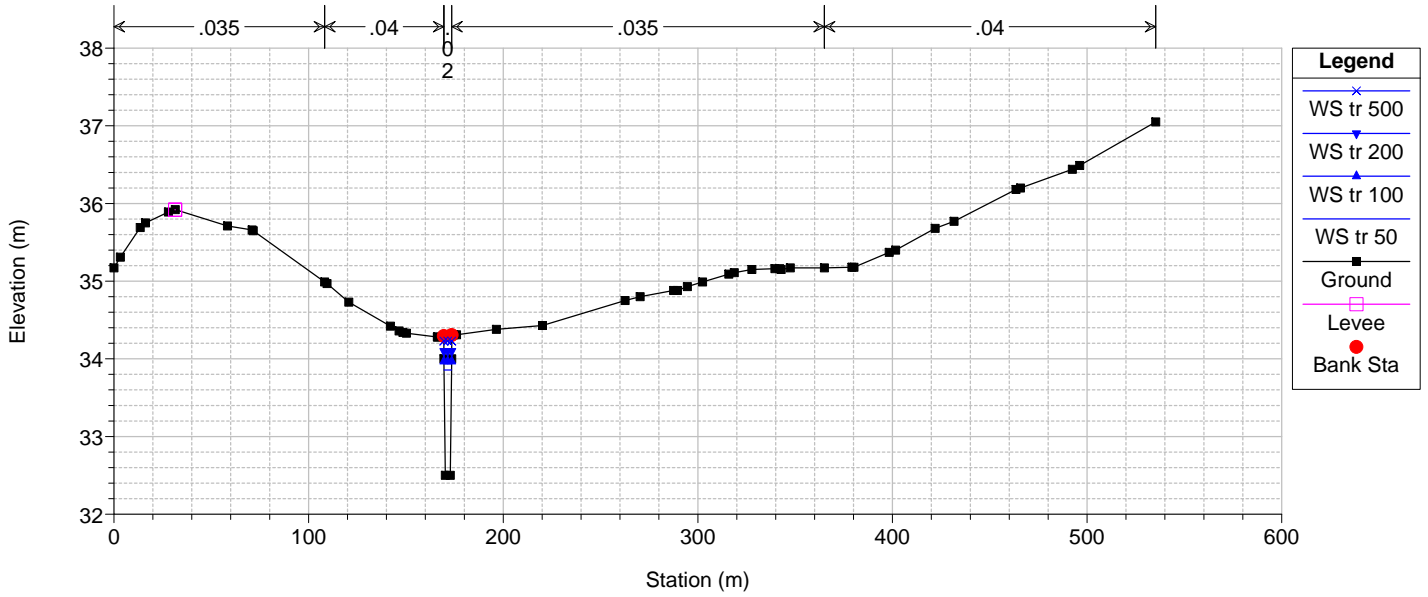
River = 090003_78574 Reach = asta RS = 1440 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

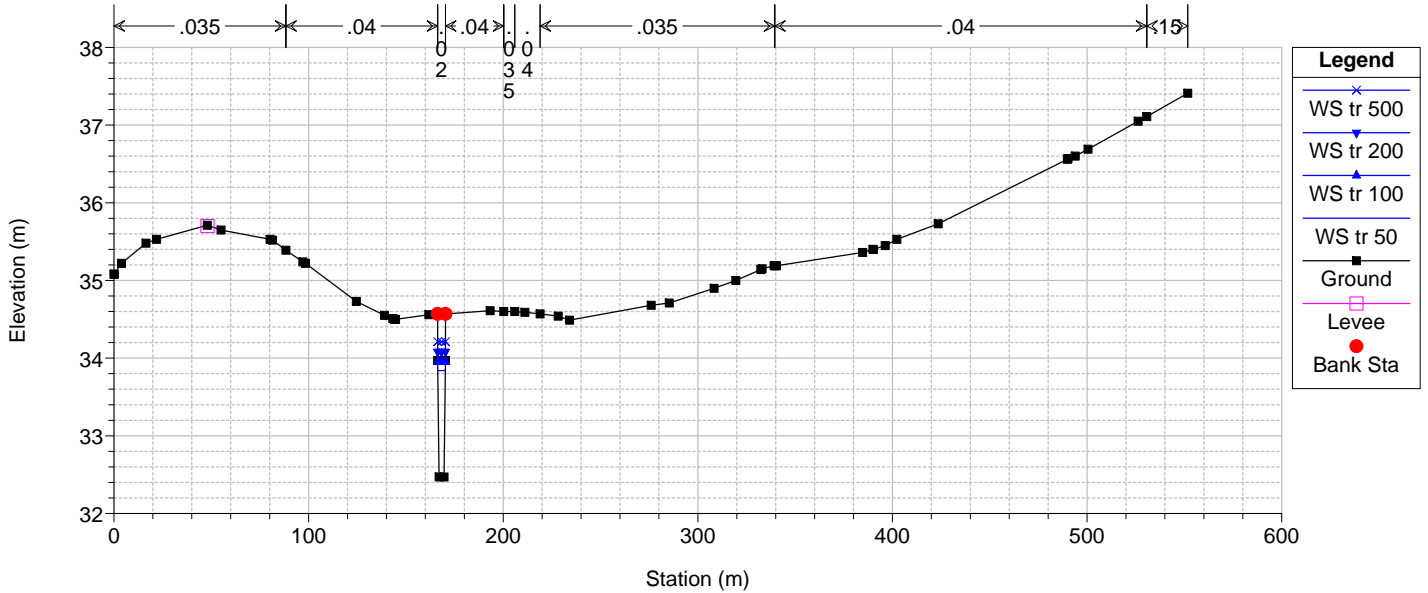
River = 090003_78574 Reach = asta RS = 1410 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

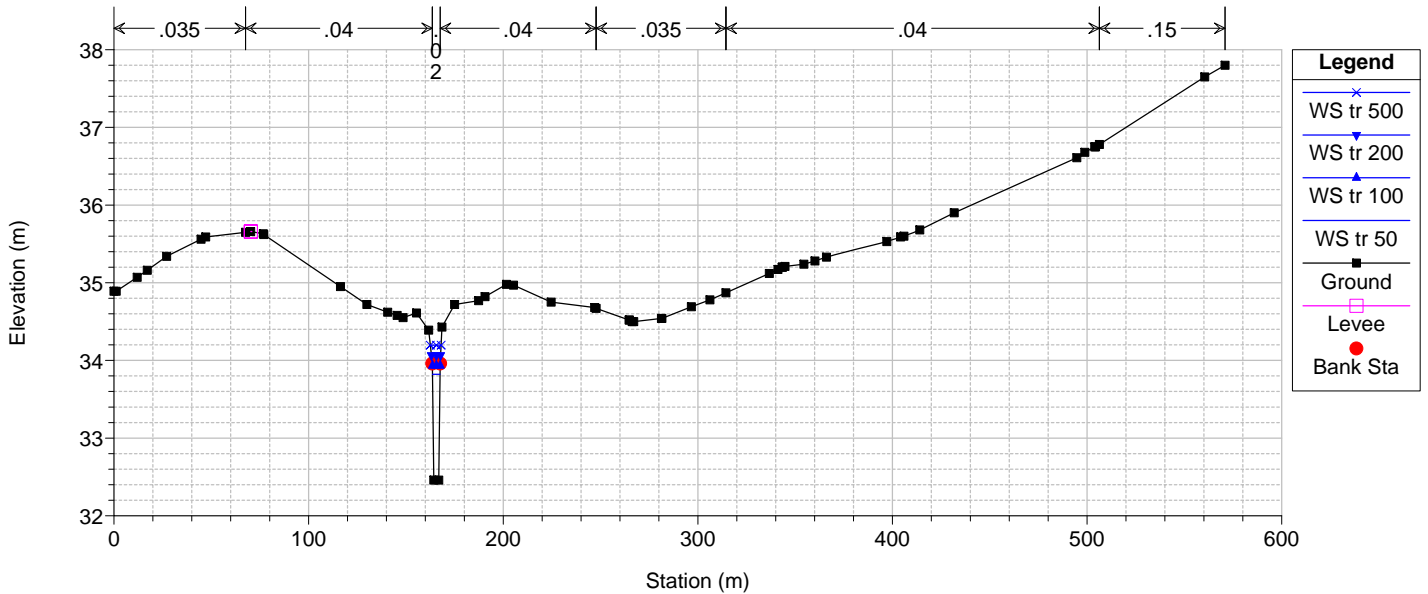
River = 090003_78574 Reach = asta RS = 1380 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

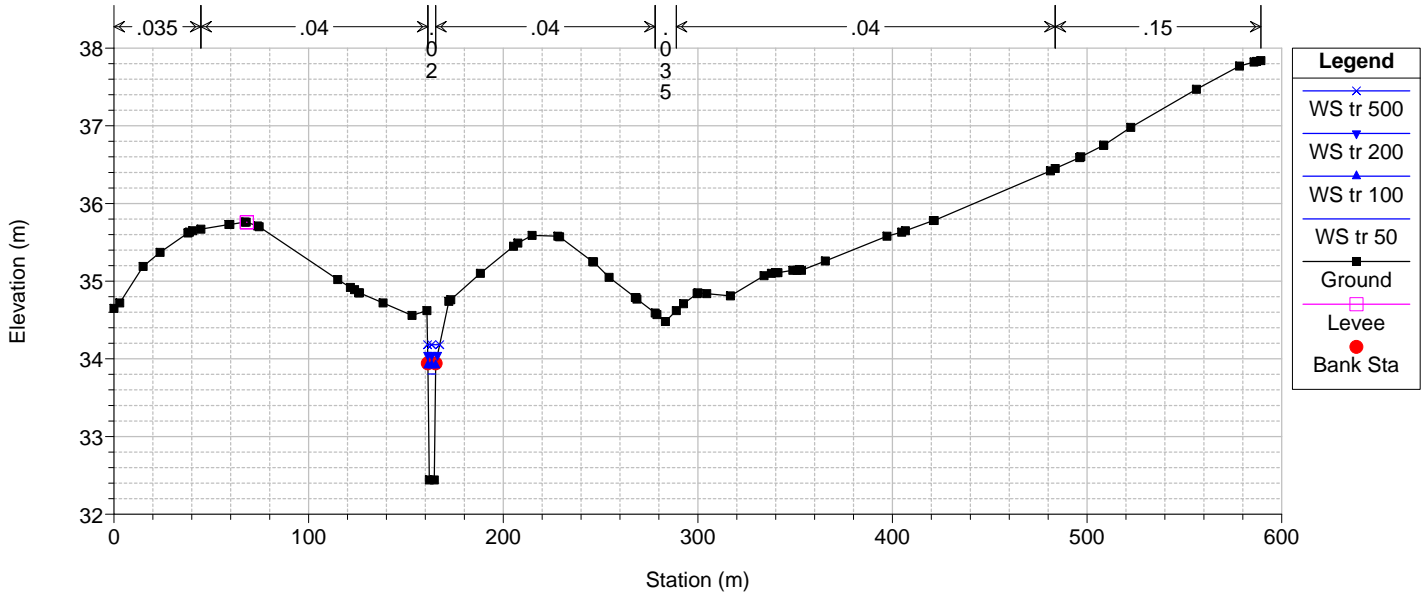
River = 090003_78574 Reach = asta RS = 1350 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

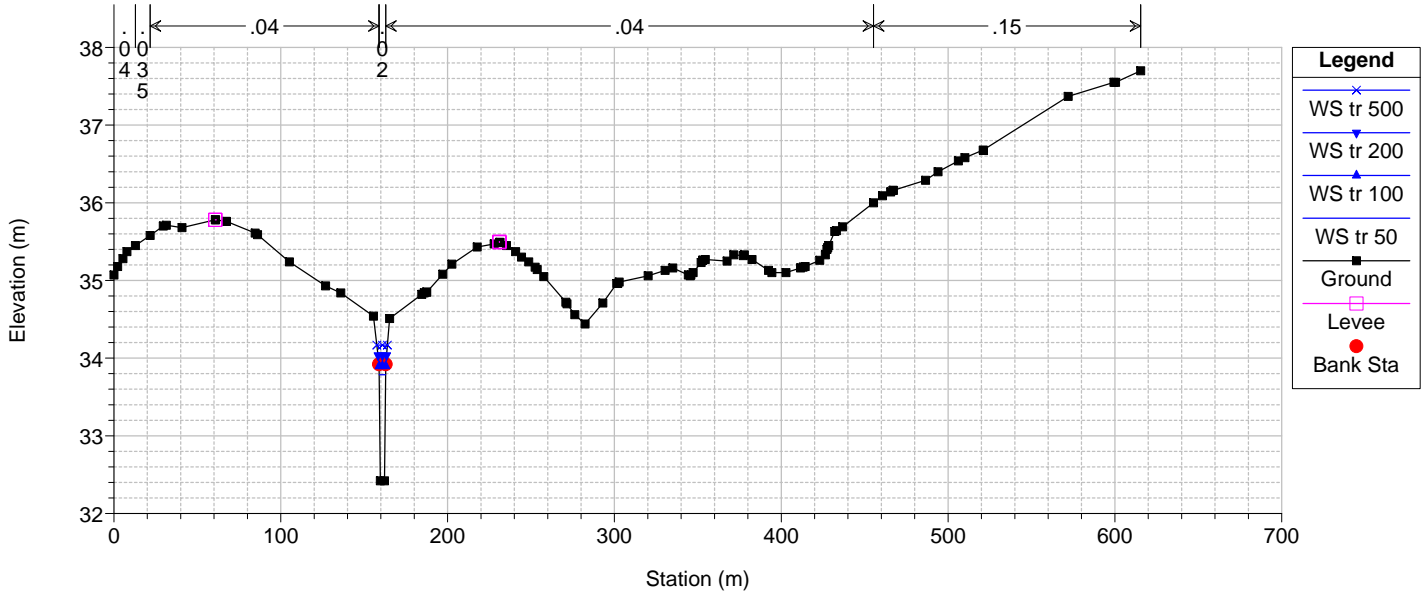
River = 090003_78574 Reach = asta RS = 1320 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

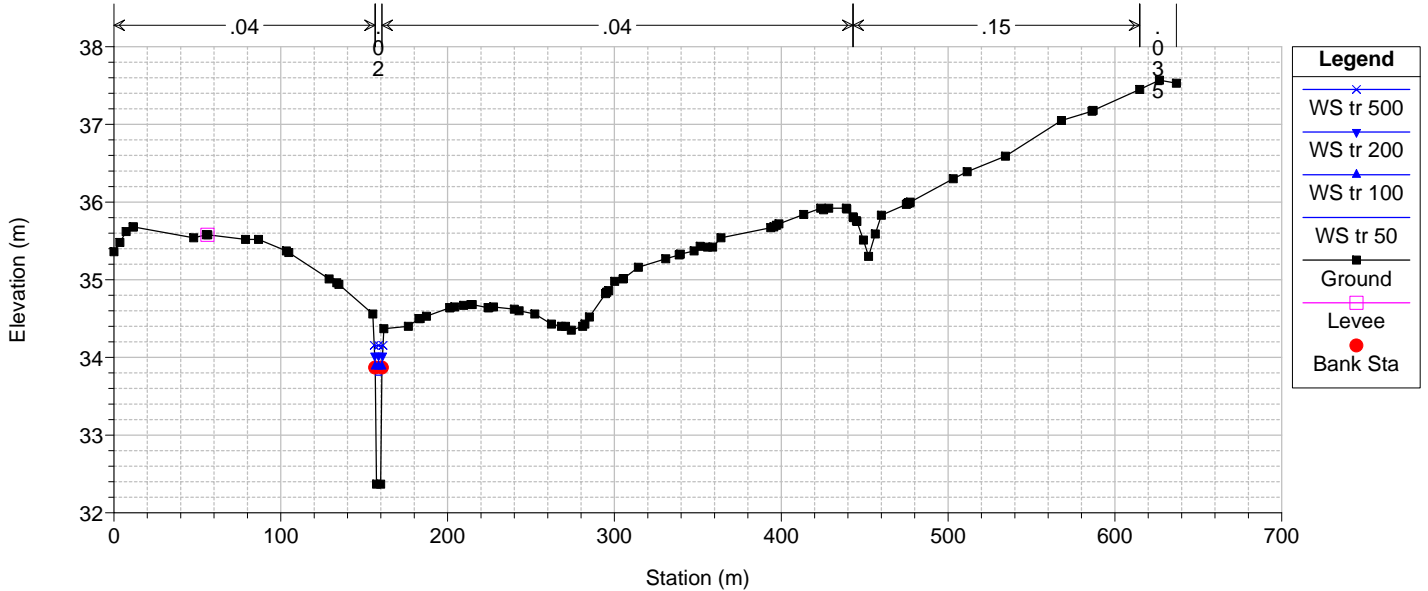
River = 090003_78574 Reach = asta RS = 1290 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

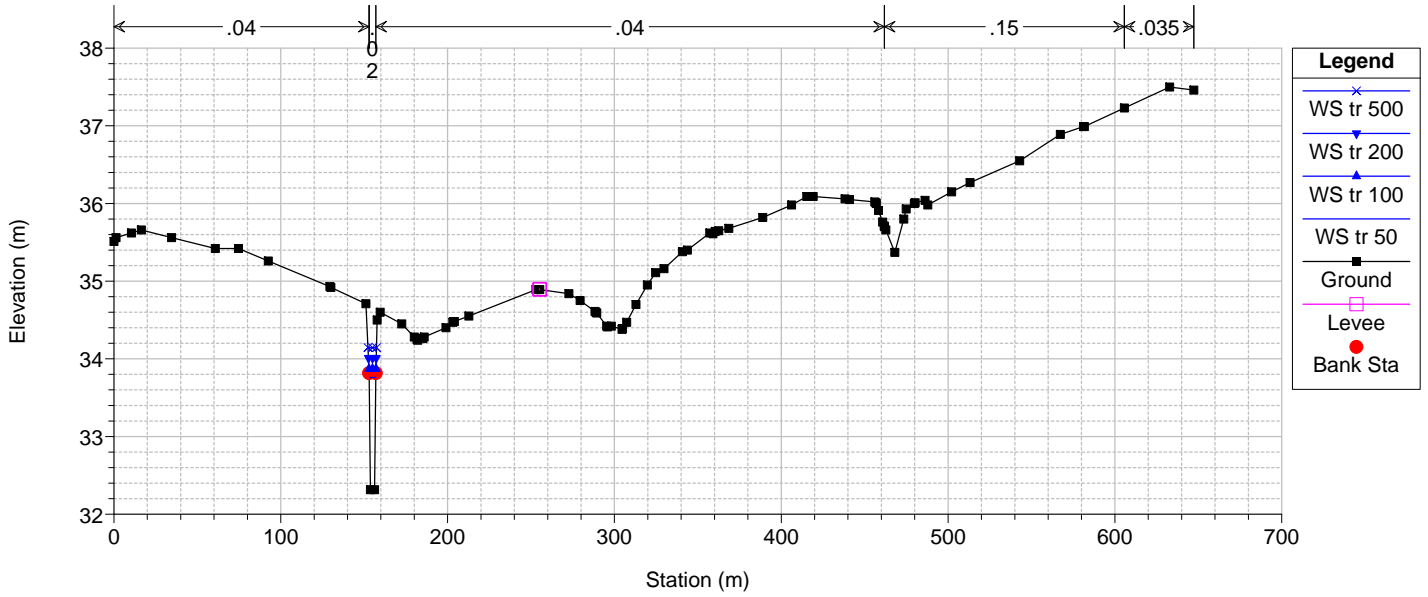
River = 090003_78574 Reach = asta RS = 1260 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

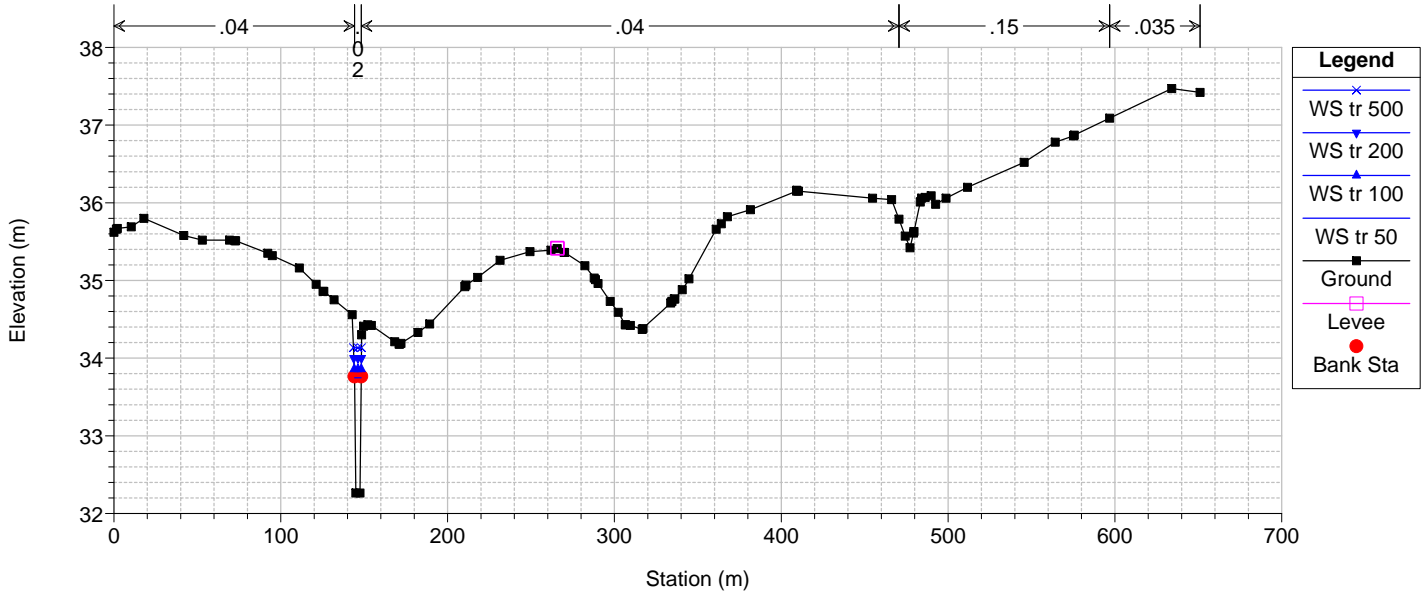
River = 090003_78574 Reach = asta RS = 1230 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

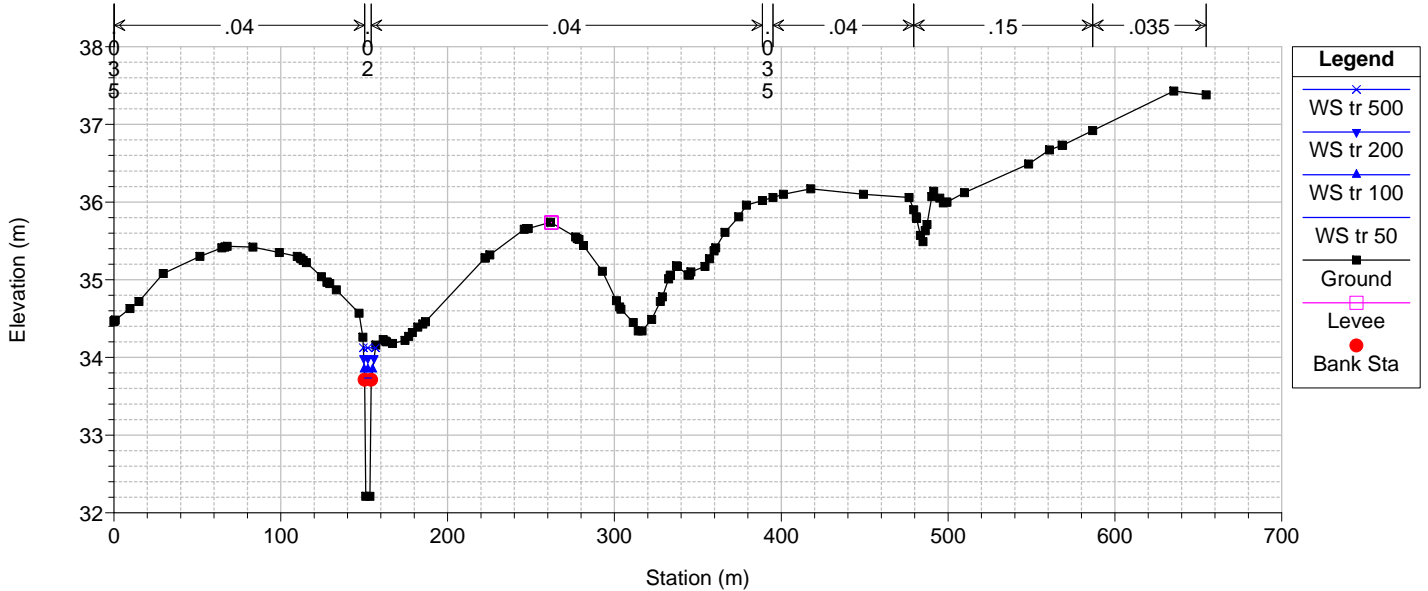
River = 090003_78574 Reach = asta RS = 1200 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

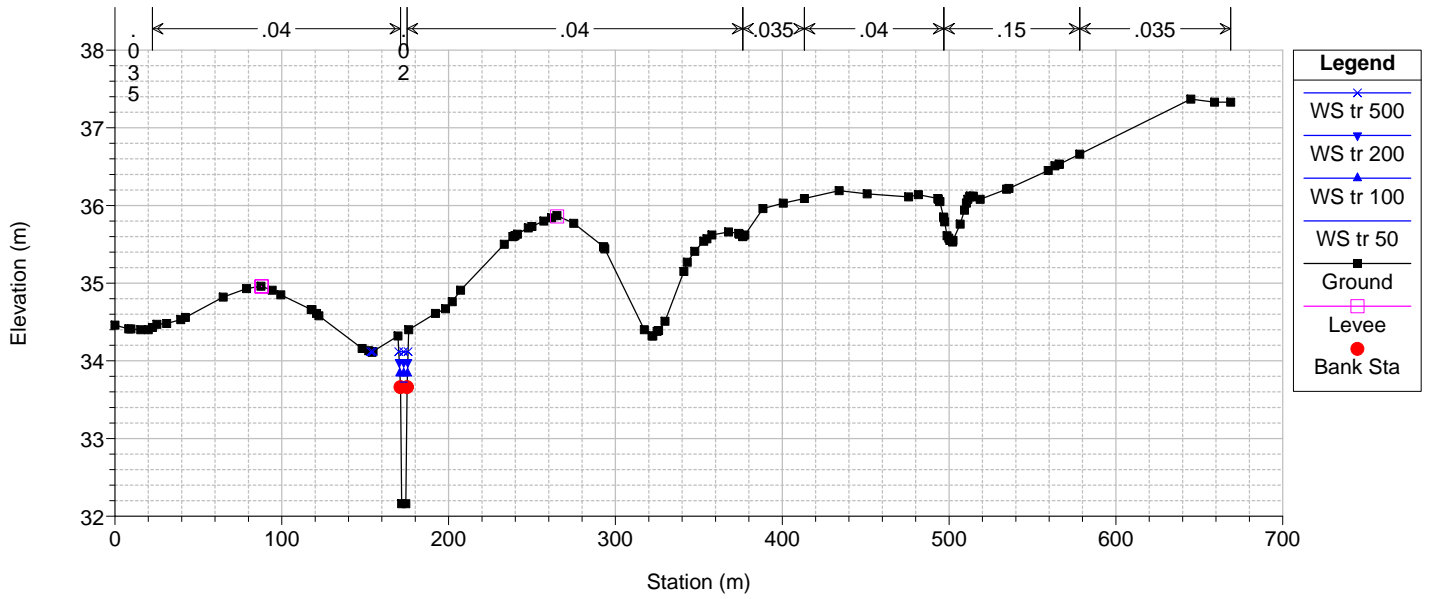
River = 090003_78574 Reach = asta RS = 1165.345 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

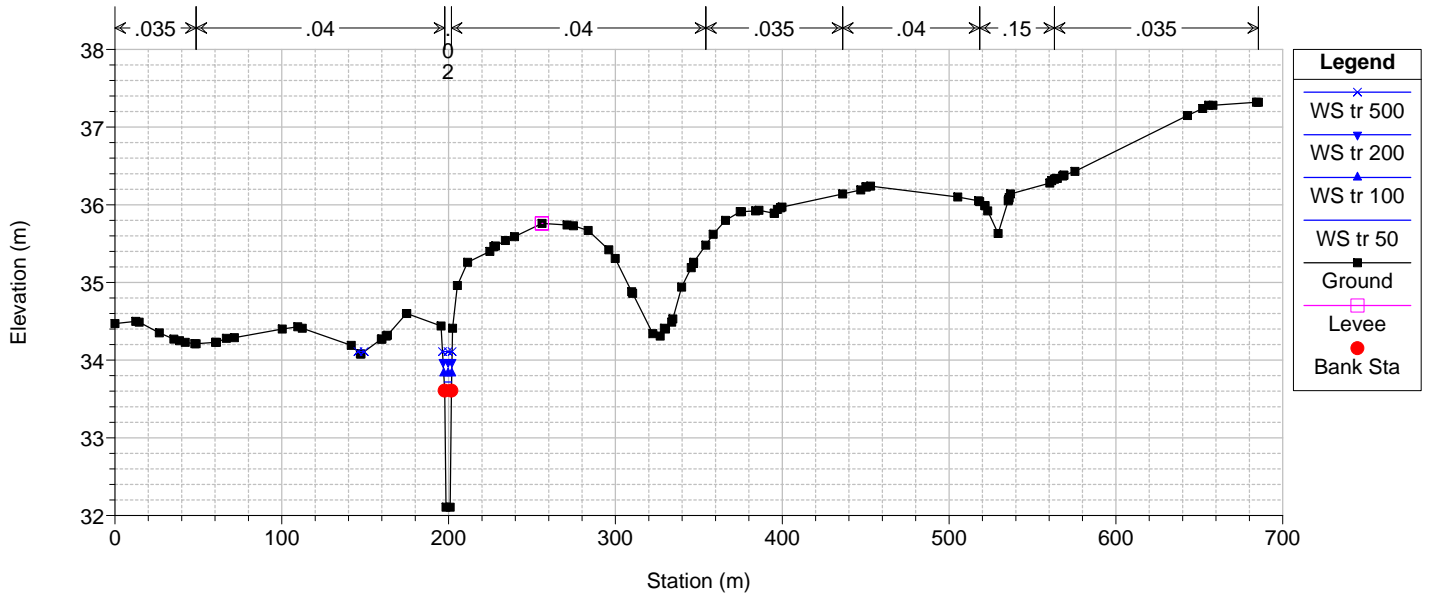
River = 090003_78574 Reach = asta RS = 1140 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

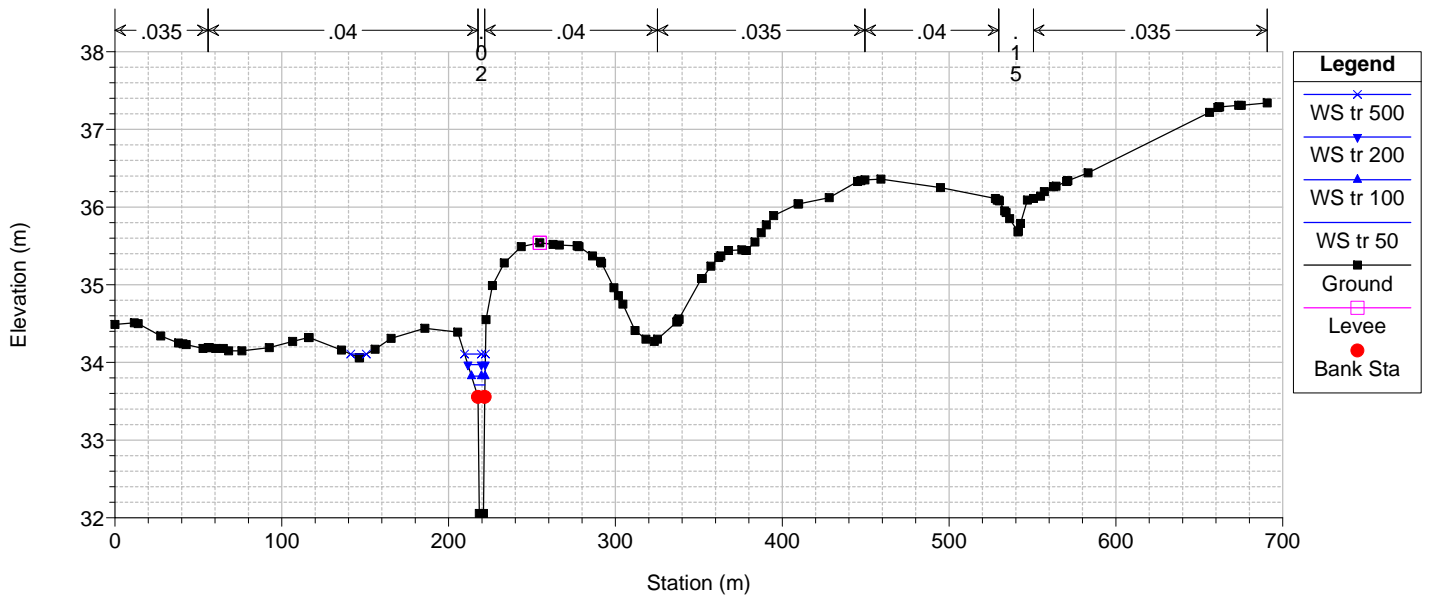
River = 090003_78574 Reach = asta RS = 1110 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

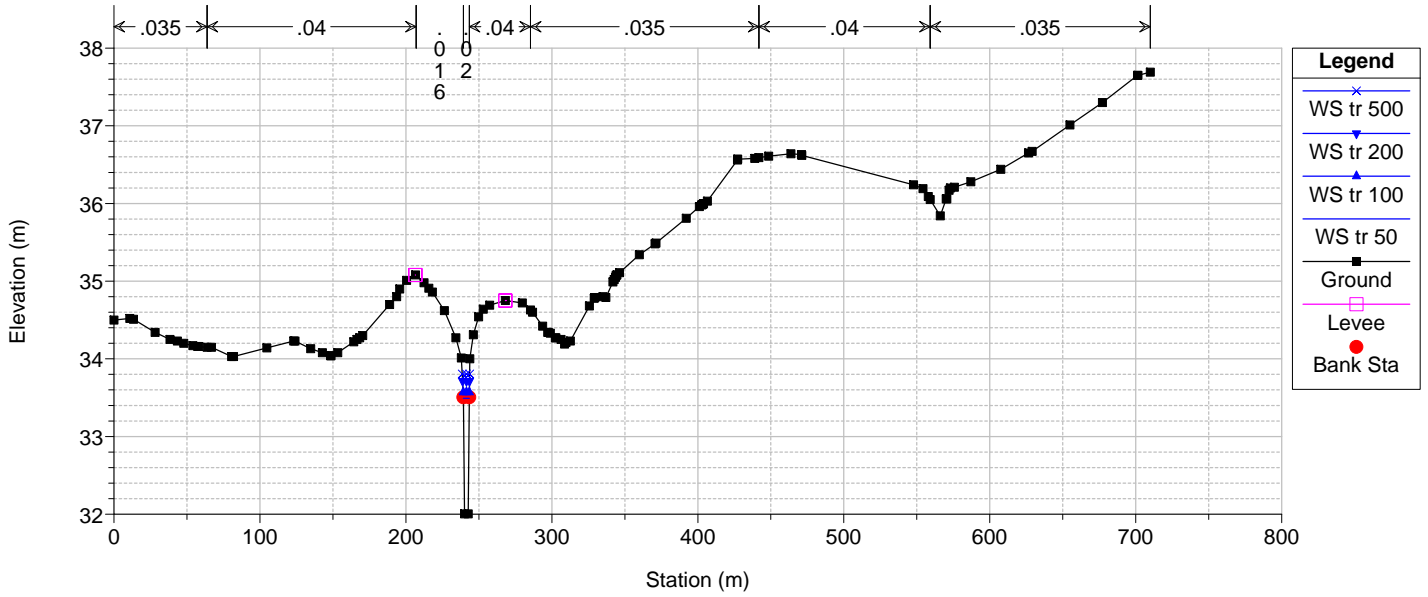
River = 090003_78574 Reach = asta RS = 1080 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

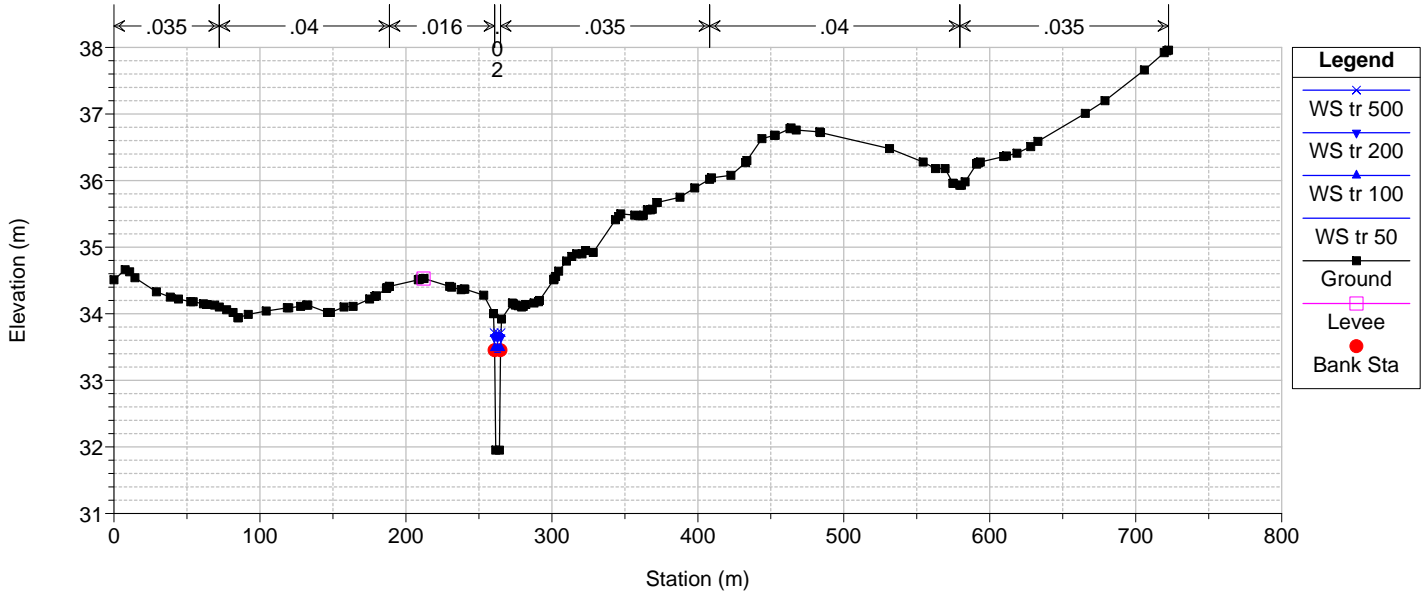
River = 090003_78574 Reach = asta RS = 1050 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

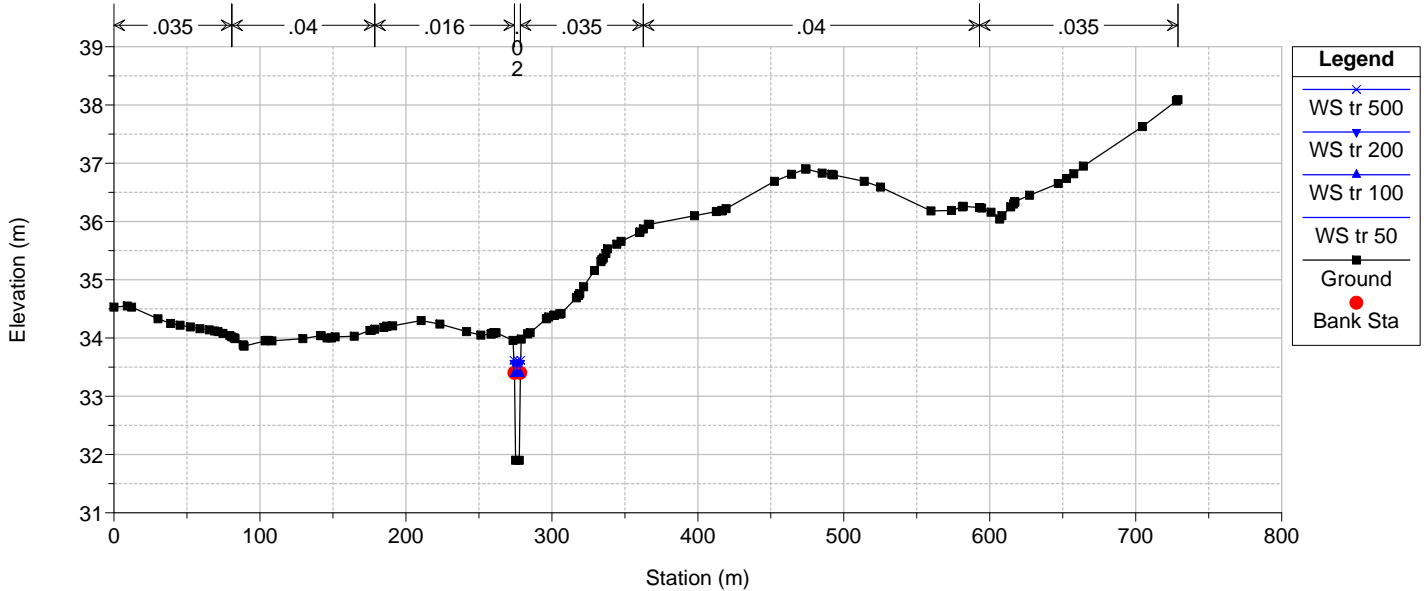
River = 090003_78574 Reach = asta RS = 1020 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

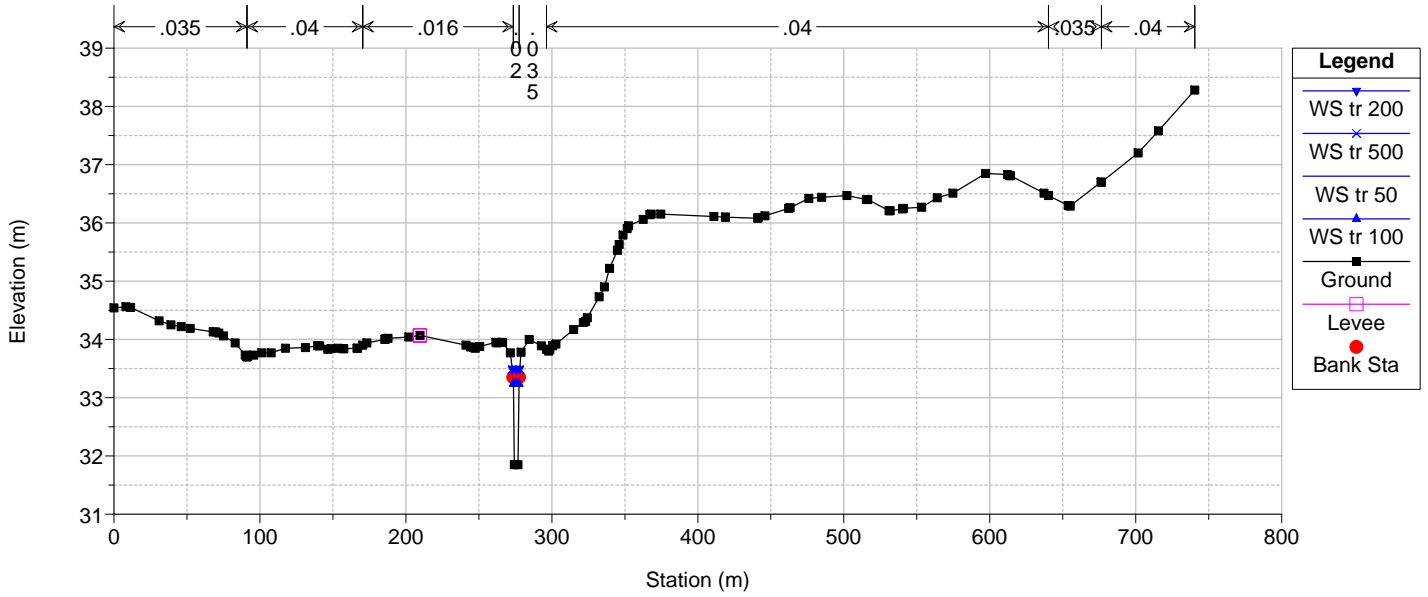
River = 090003_78574 Reach = asta RS = 990 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

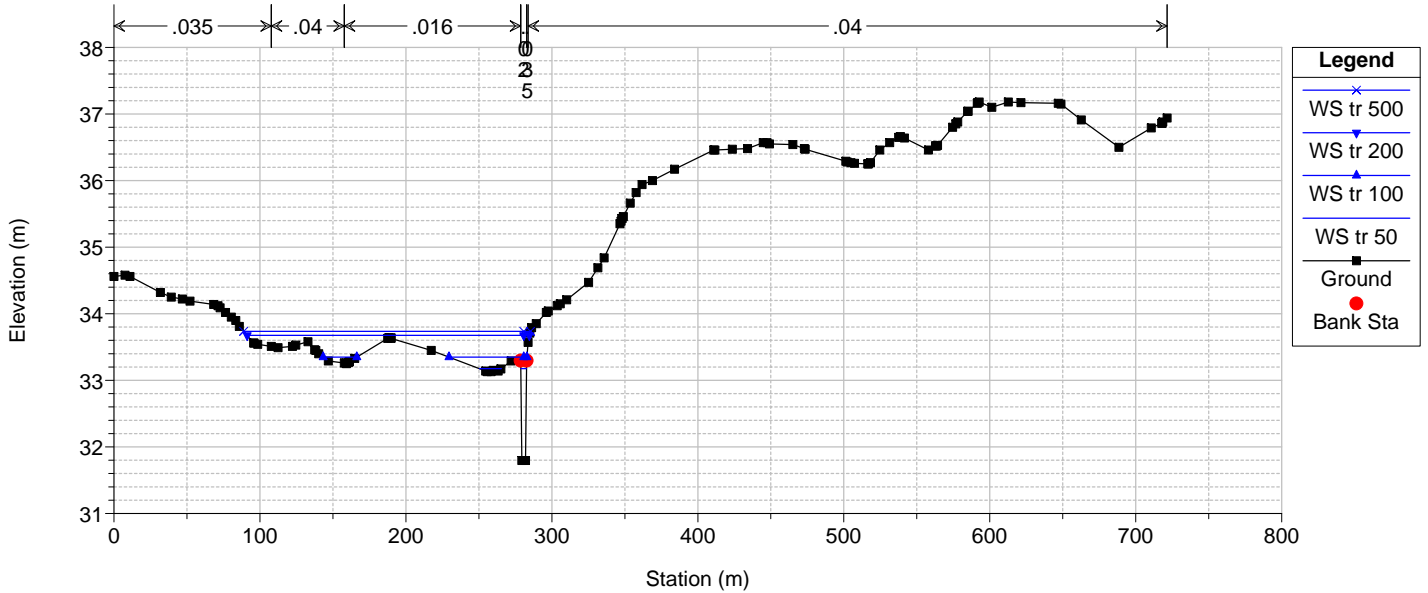
River = 090003_78574 Reach = asta RS = 960.0001 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

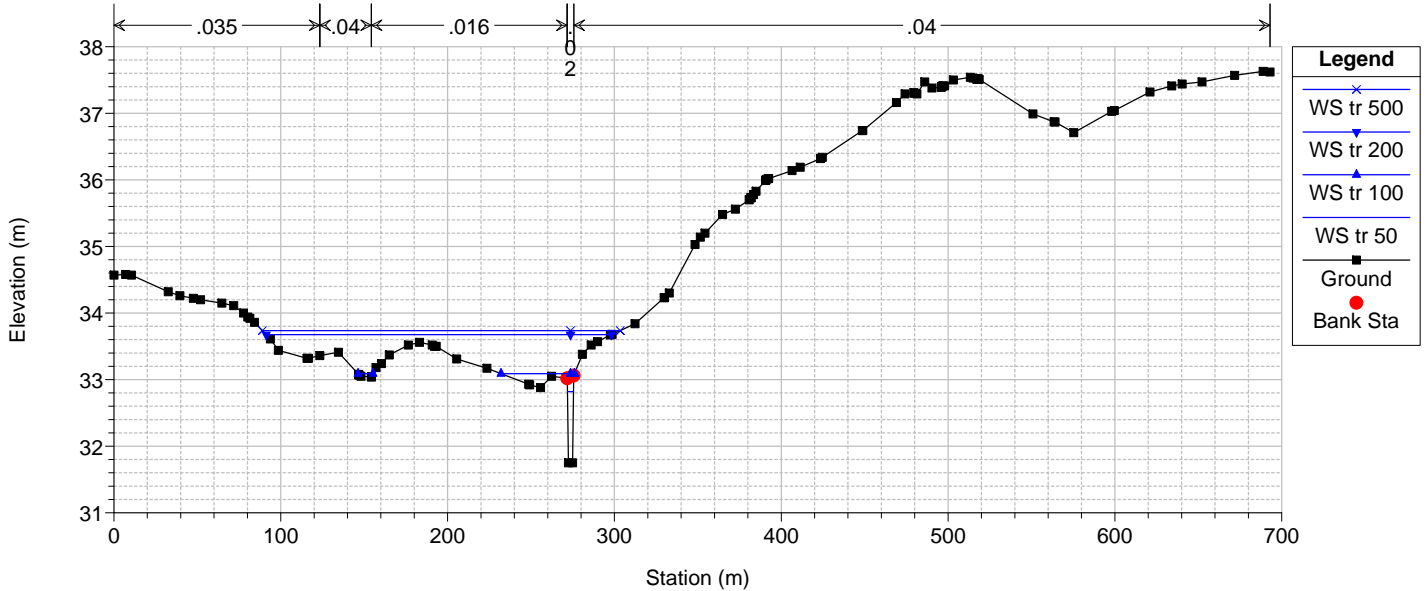
River = 090003_78574 Reach = asta RS = 930.0001 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

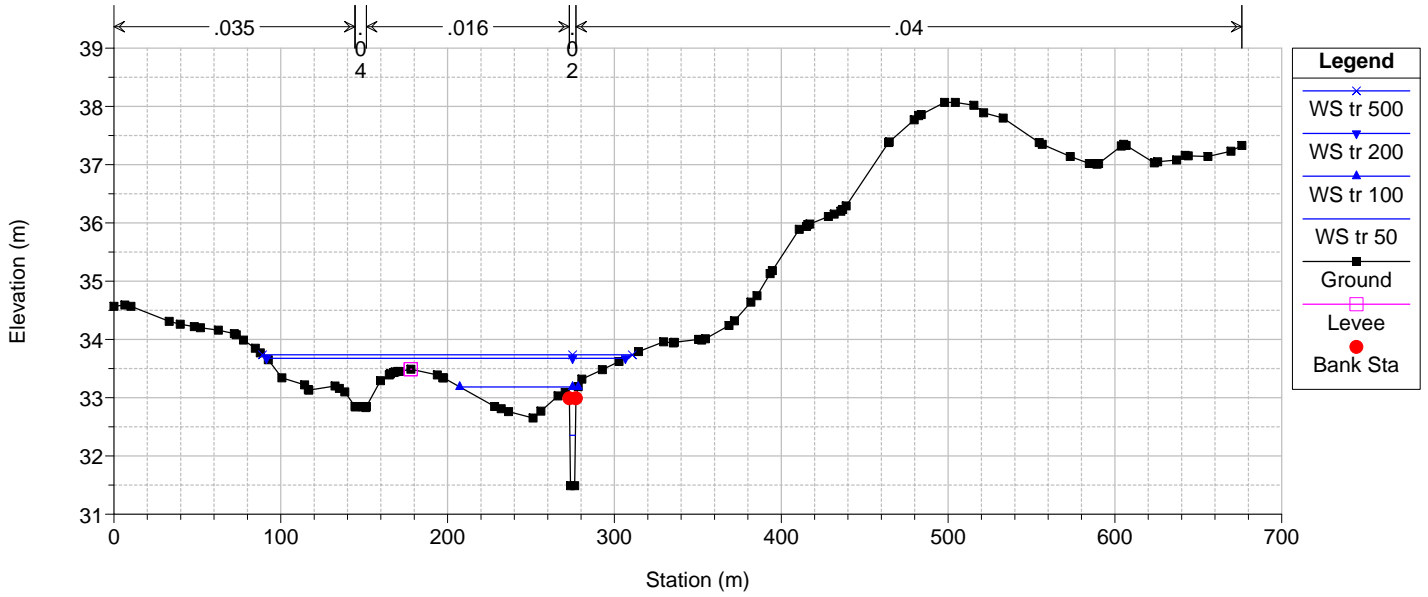
River = 090003_78574 Reach = asta RS = 900 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

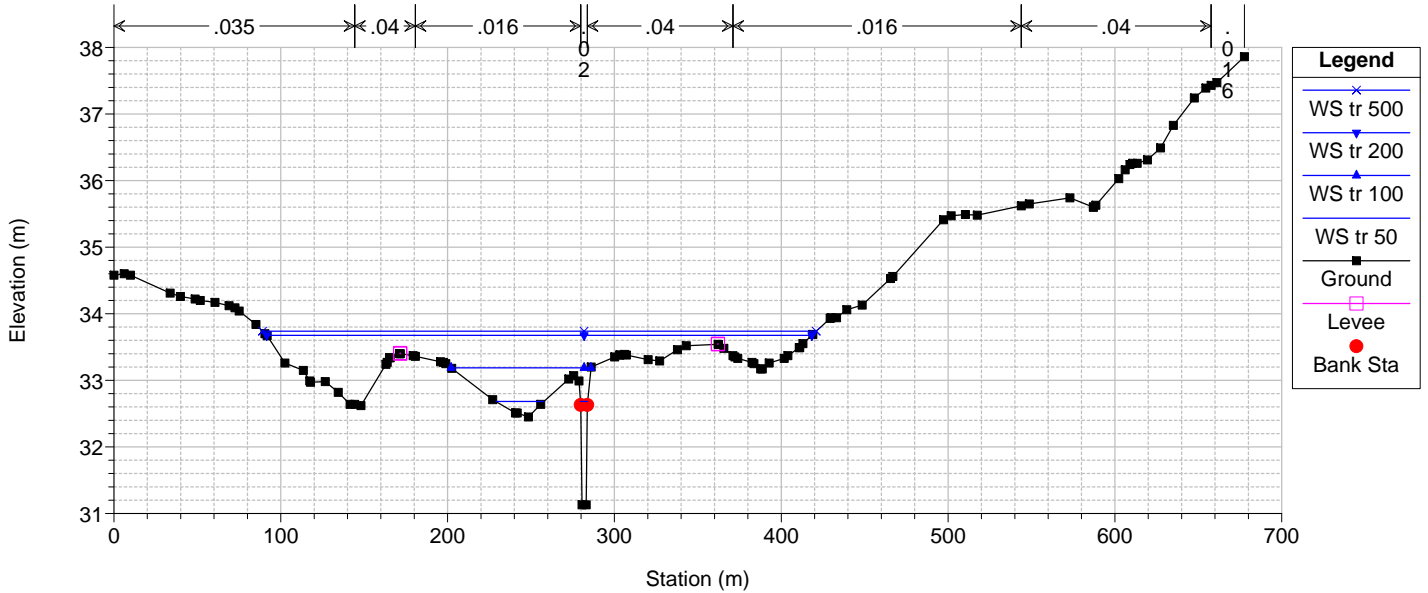
River = 090003_78574 Reach = asta RS = 883.6661 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

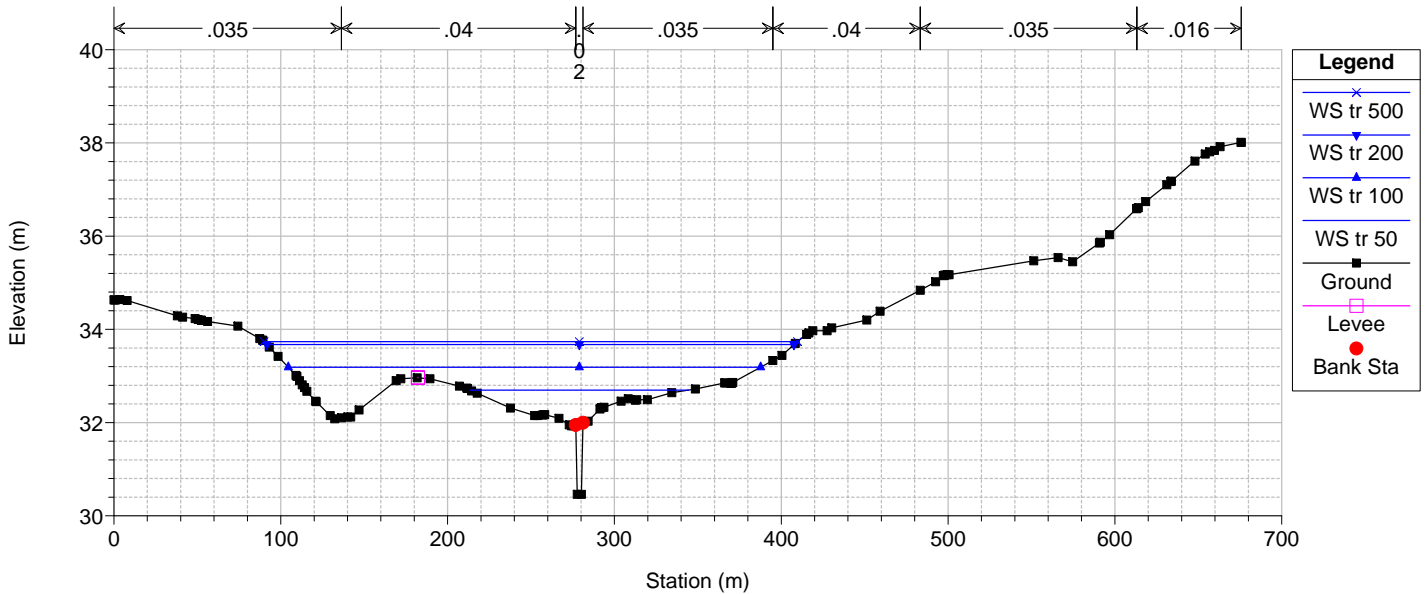
River = 090003_78574 Reach = asta RS = 861.584 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

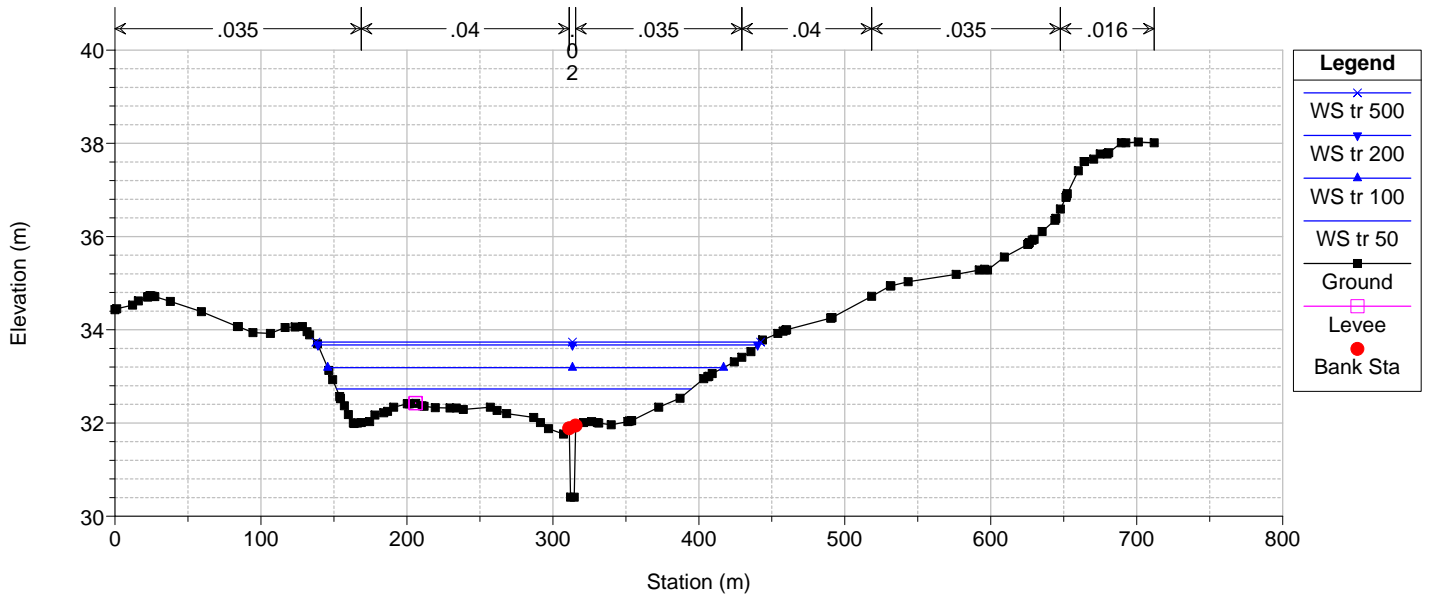
River = 090003_78574 Reach = asta RS = 840.0001 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

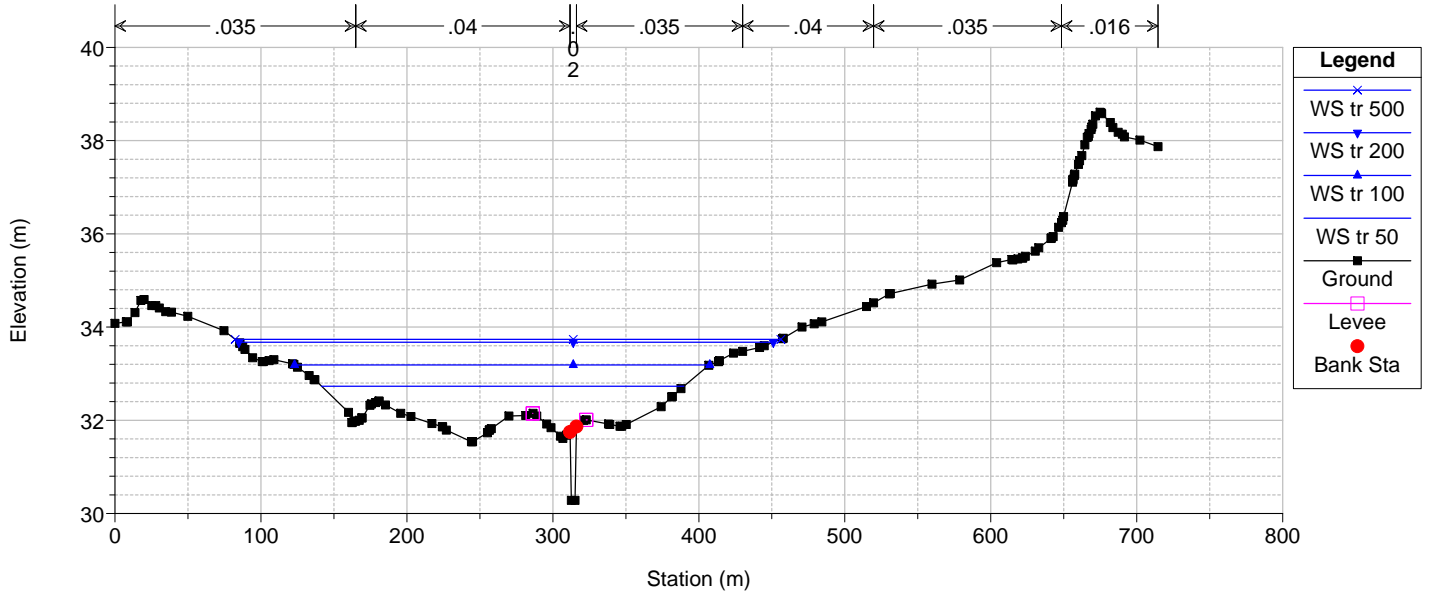
River = 090003_78574 Reach = asta RS = 824.9322 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

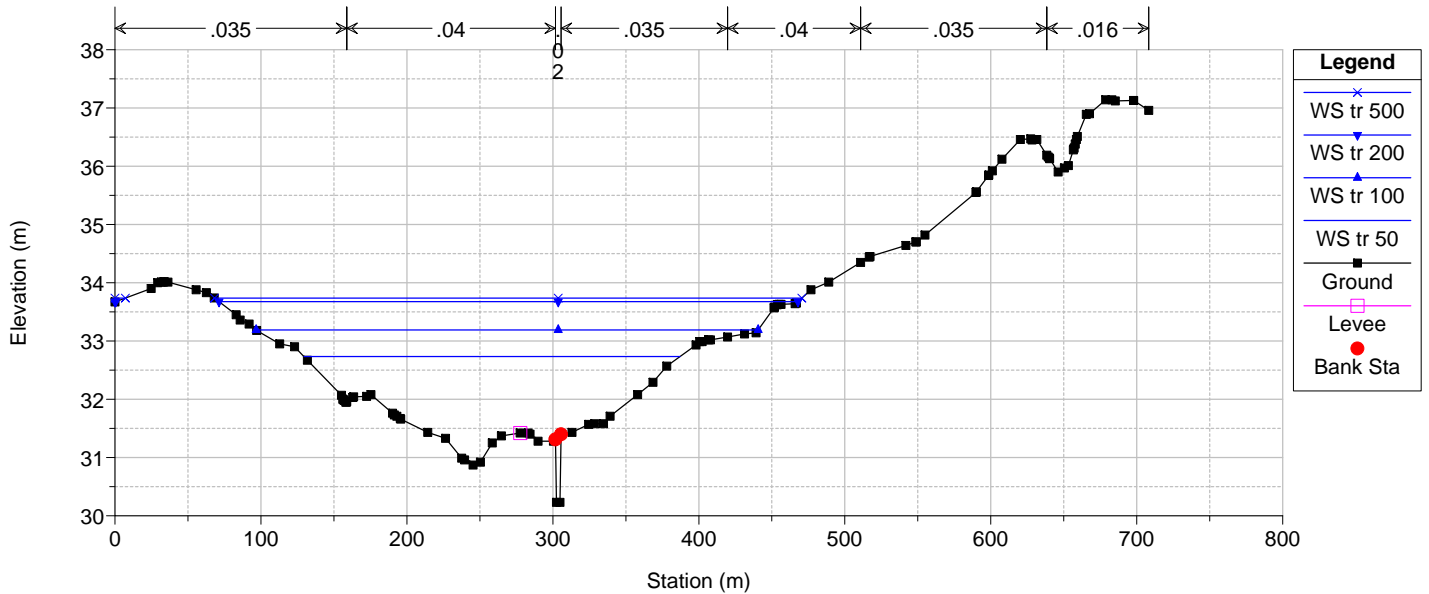
River = 090003_78574 Reach = asta RS = 810.0001 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

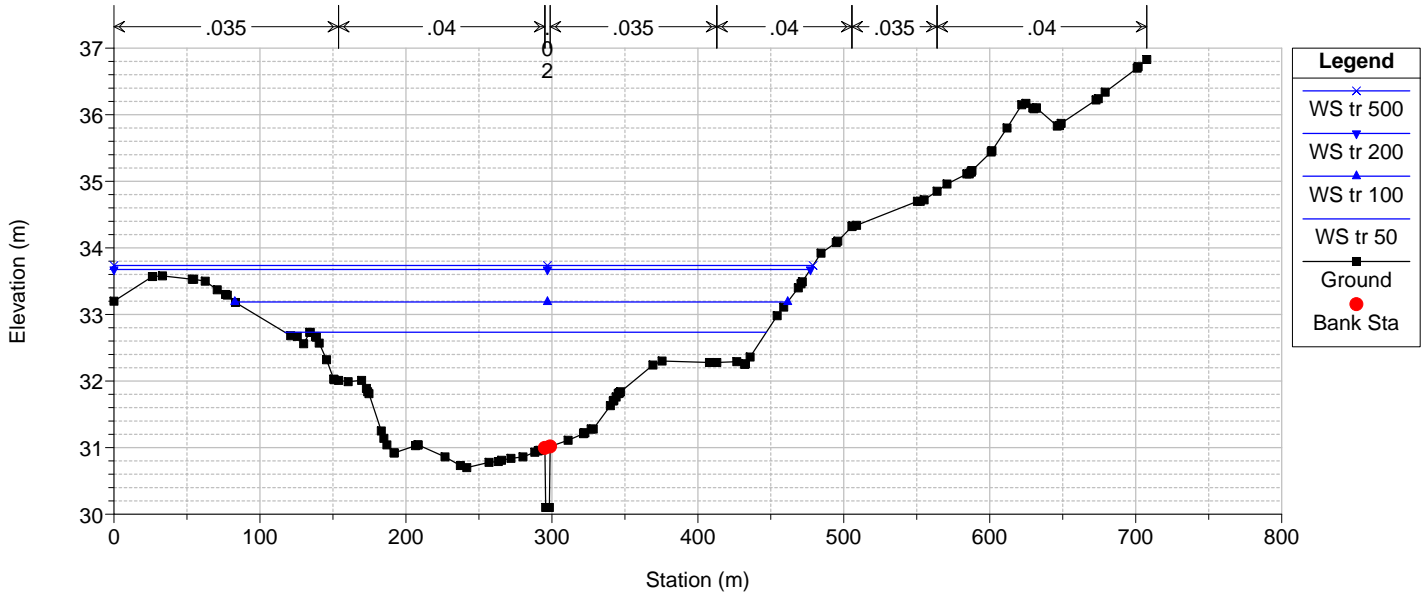
River = 090003_78574 Reach = asta RS = 780.0001 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

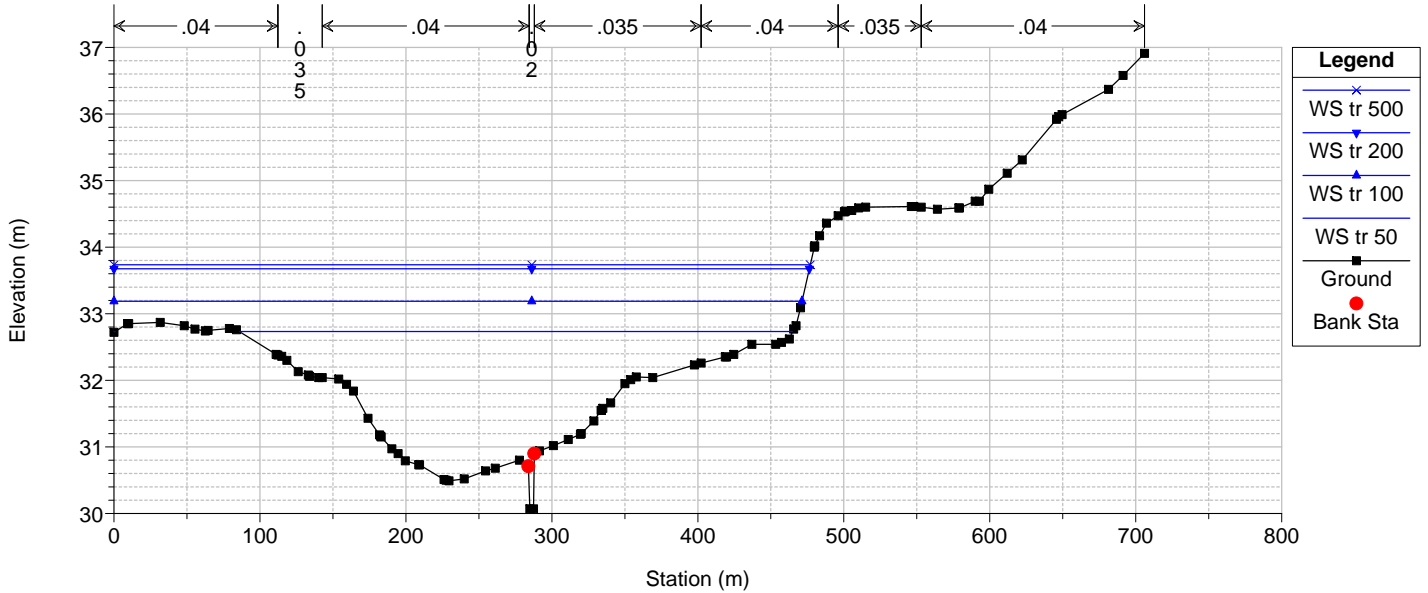
River = 090003_78574 Reach = asta RS = 750.0001 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

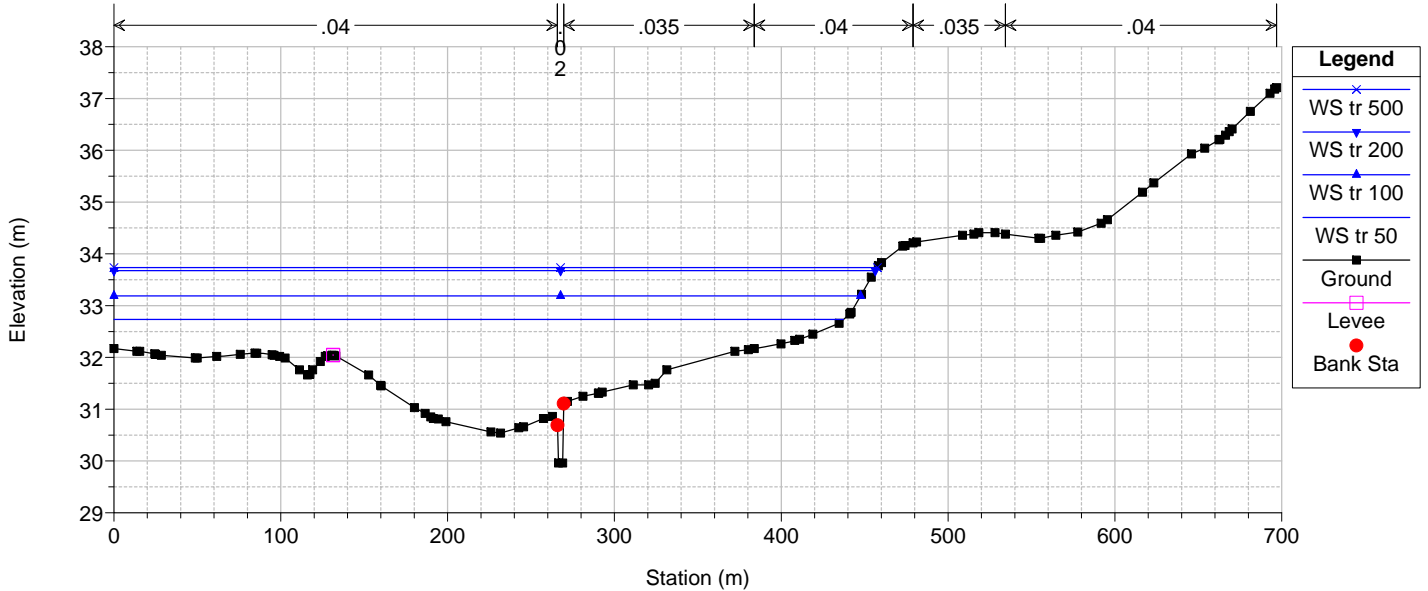
River = 090003_78574 Reach = asta RS = 720 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

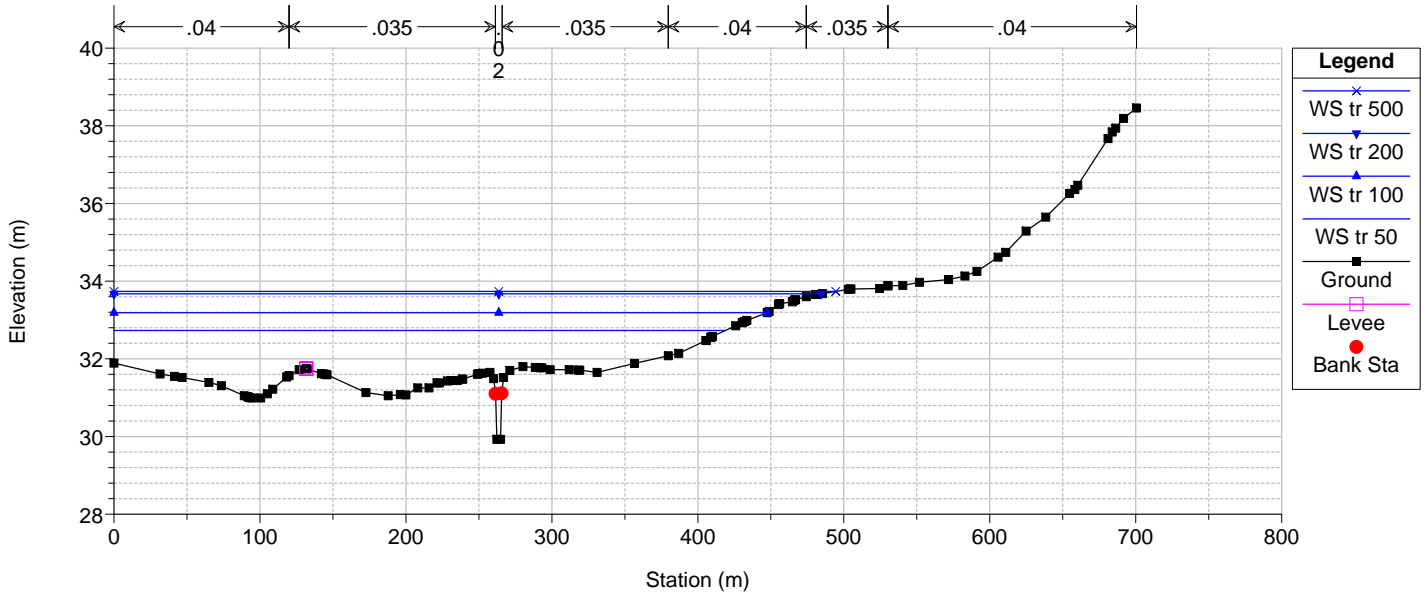
River = 090003_78574 Reach = asta RS = 690 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

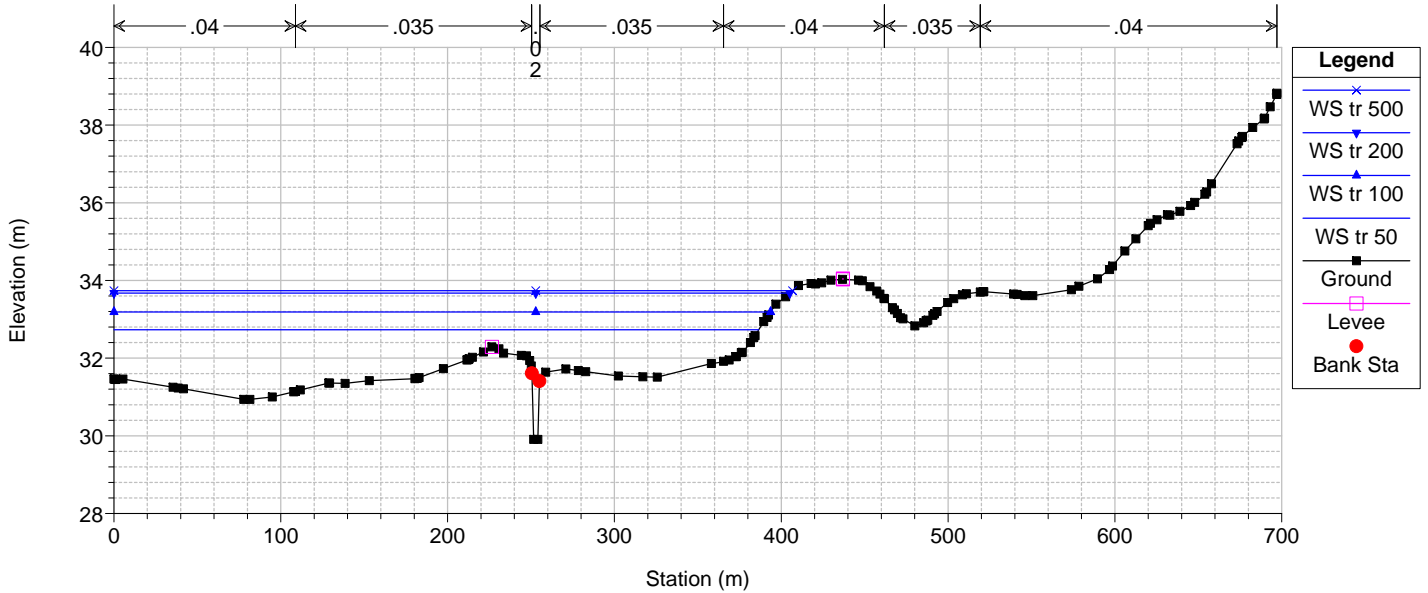
River = 090003_78574 Reach = asta RS = 660 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

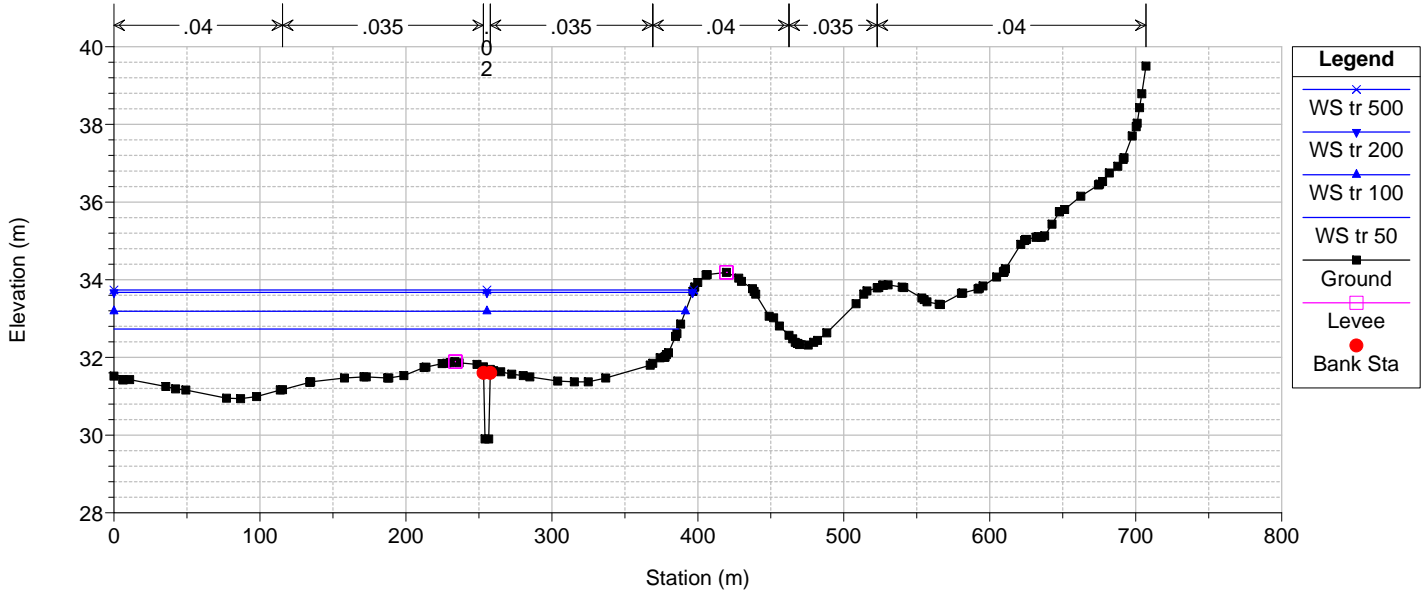
River = 090003_78574 Reach = asta RS = 619.4314 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

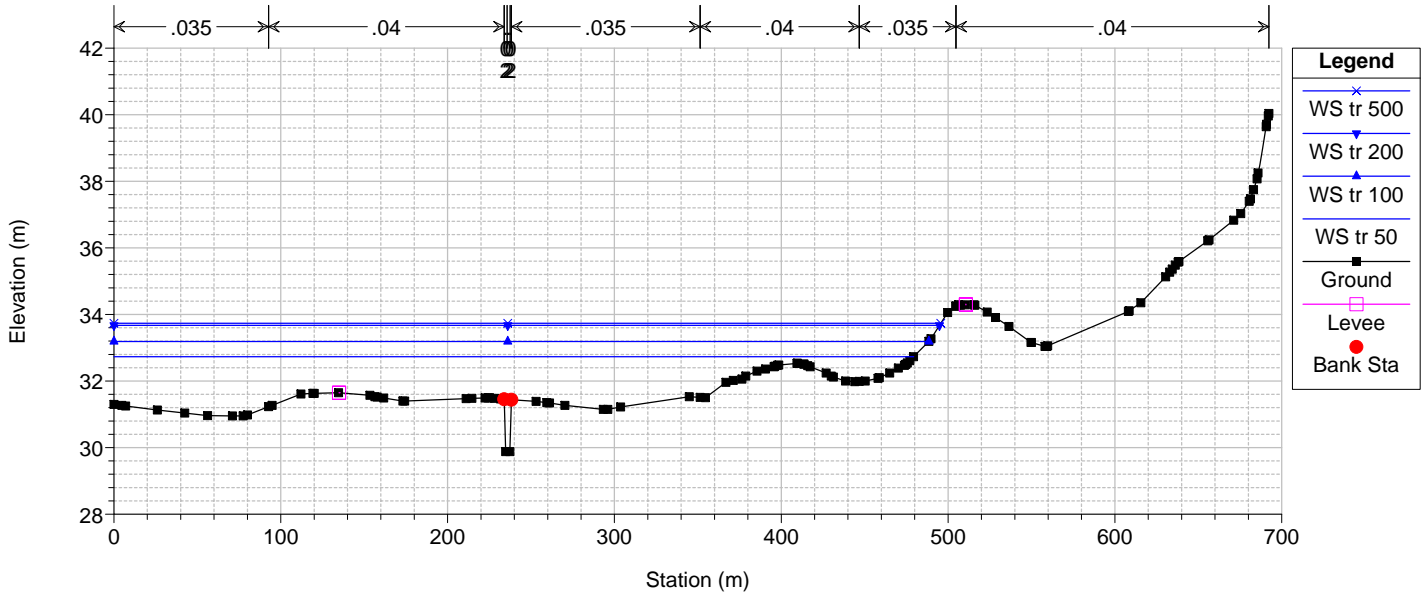
River = 090003_78574 Reach = asta RS = 604.3116 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

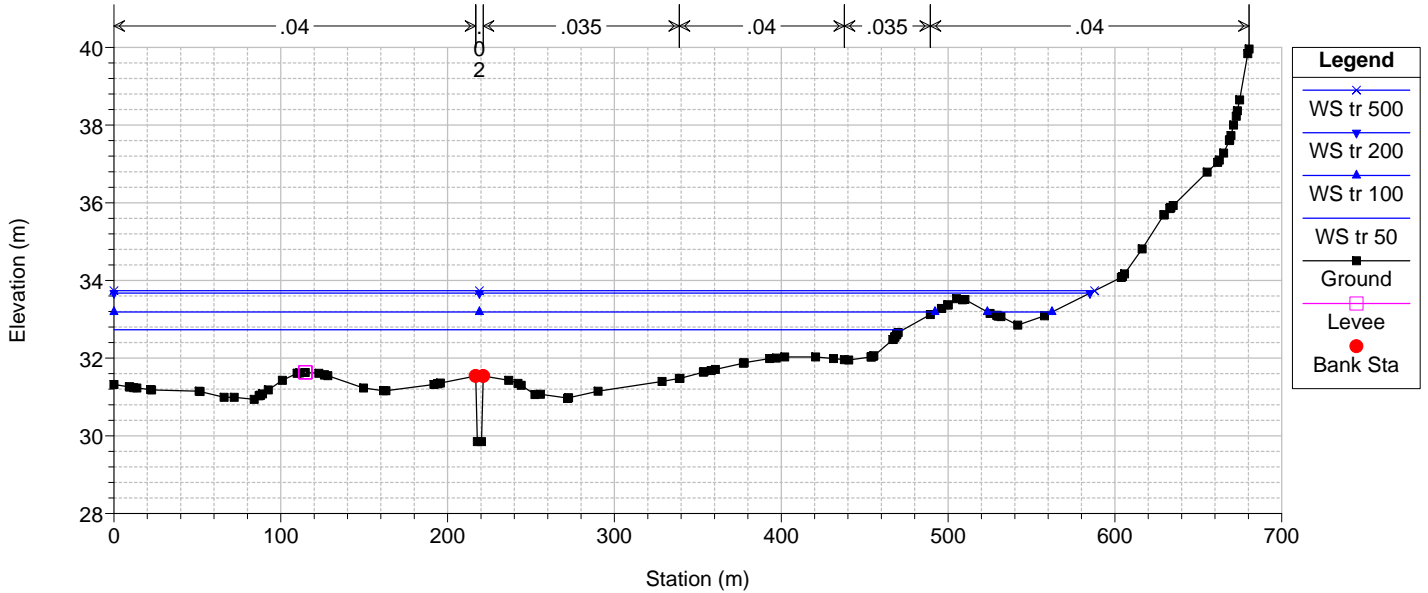
River = 090003_78574 Reach = asta RS = 570 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

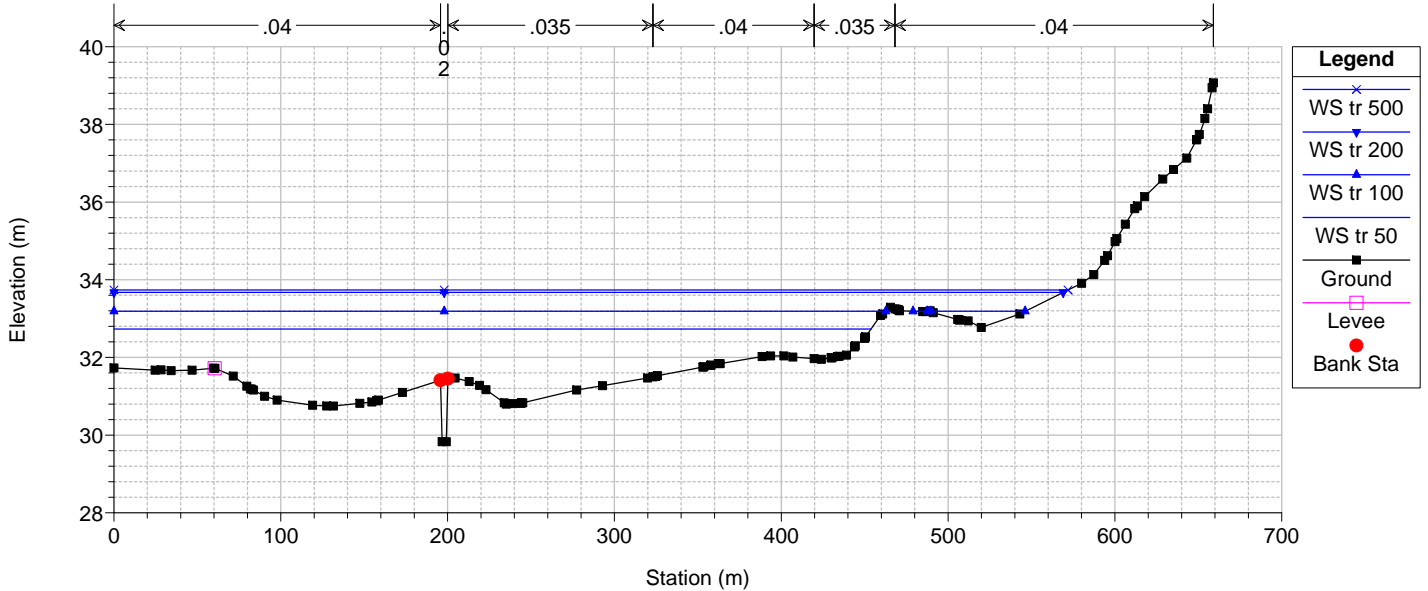
River = 090003_78574 Reach = asta RS = 540.0001 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

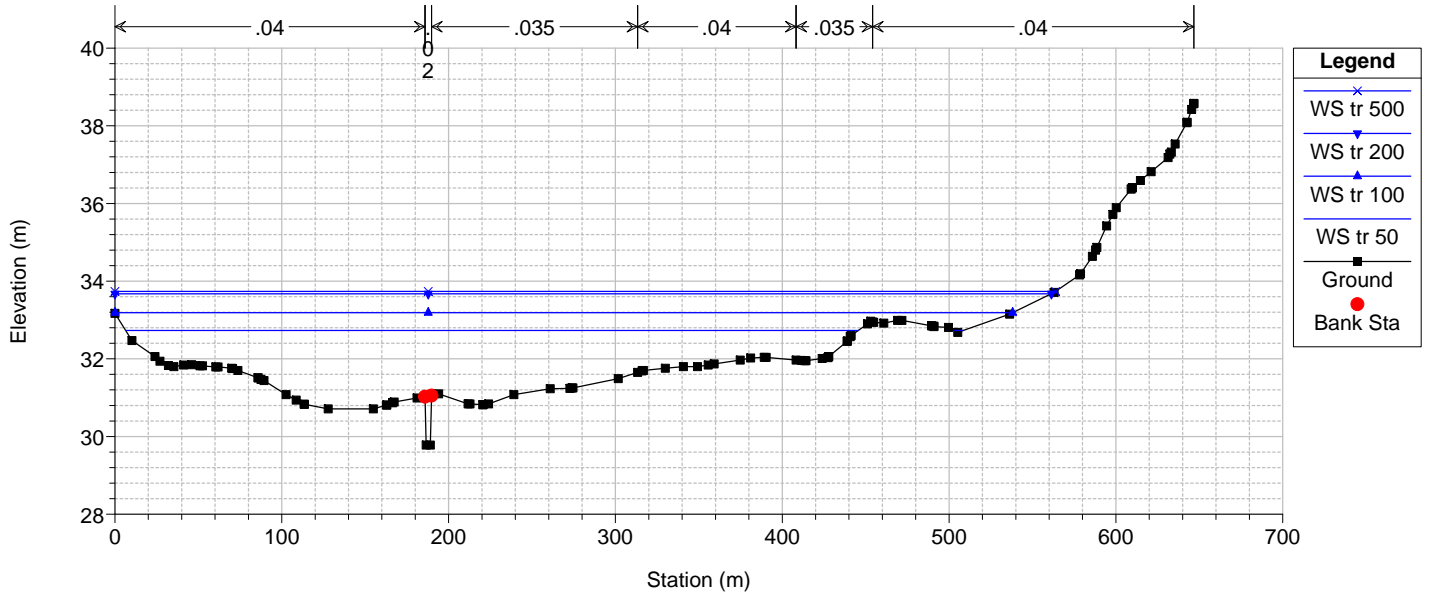
River = 090003_78574 Reach = asta RS = 510 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

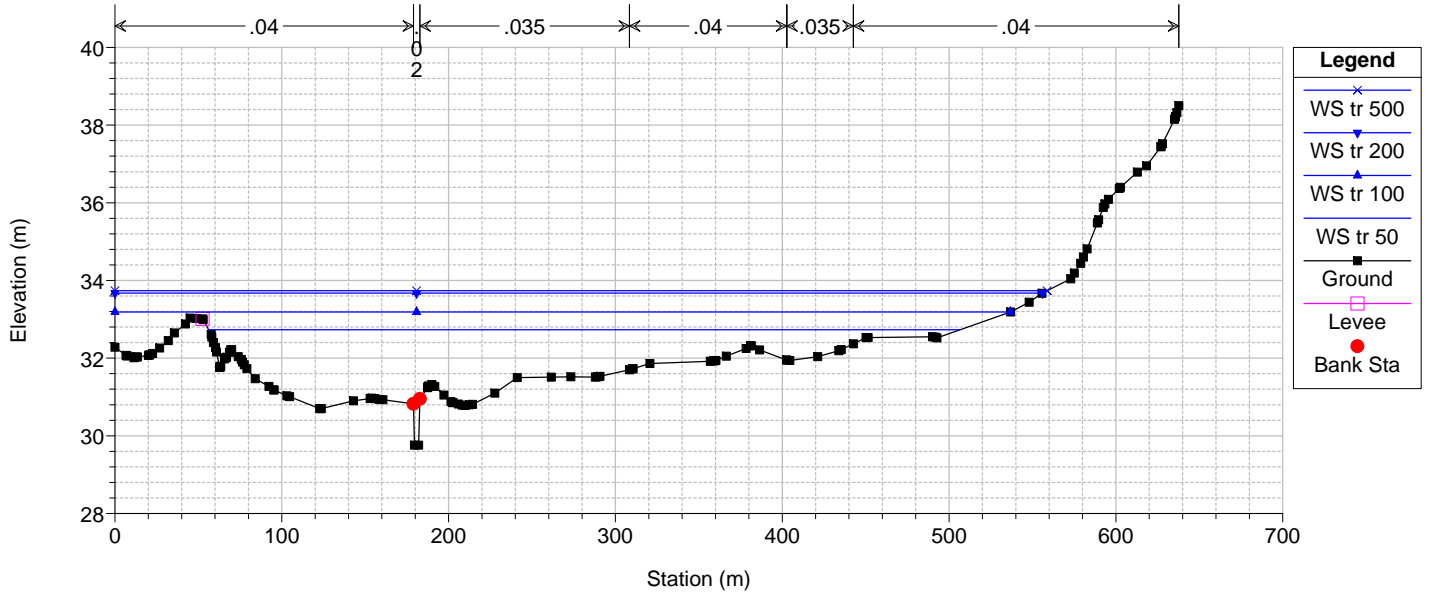
River = 090003_78574 Reach = asta RS = 480 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

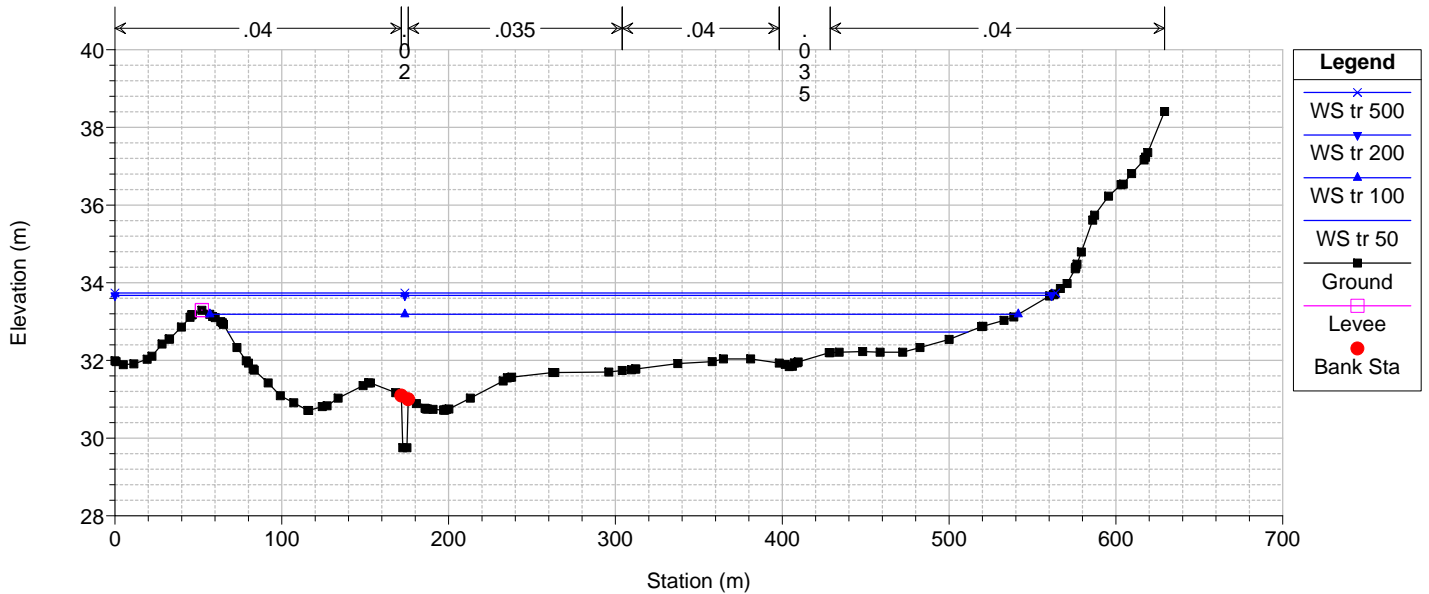
River = 090003_78574 Reach = asta RS = 450 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

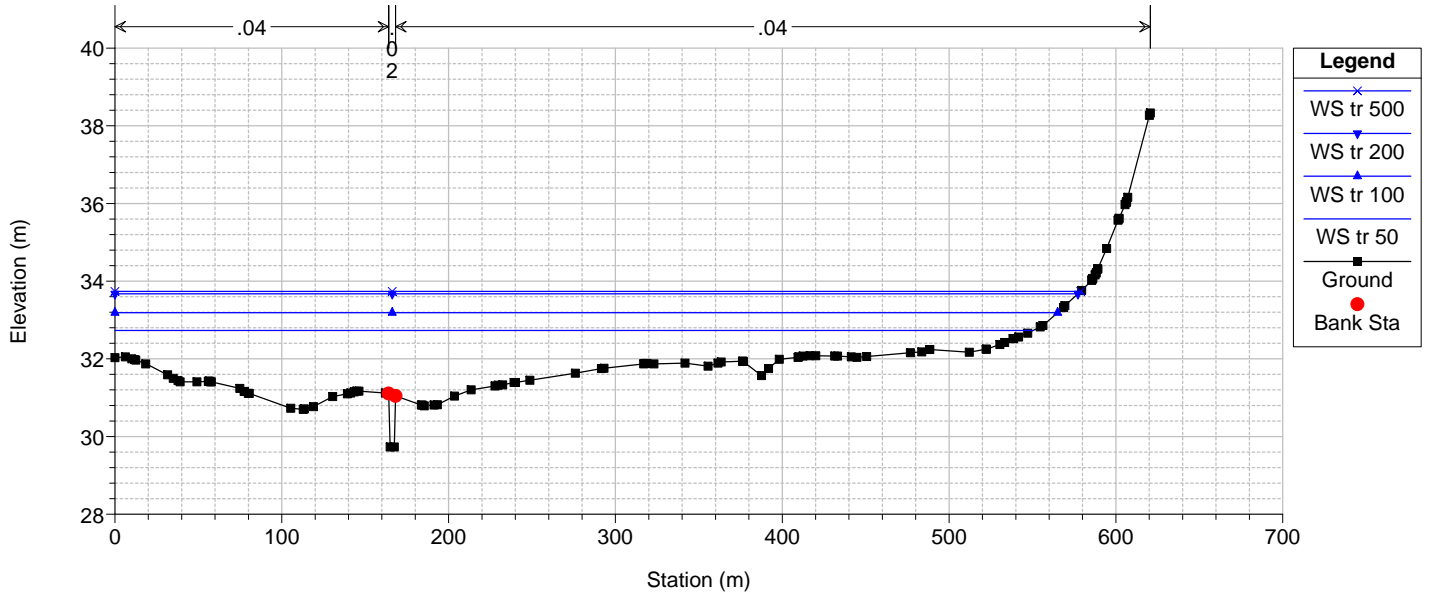
River = 090003_78574 Reach = asta RS = 420.0001 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

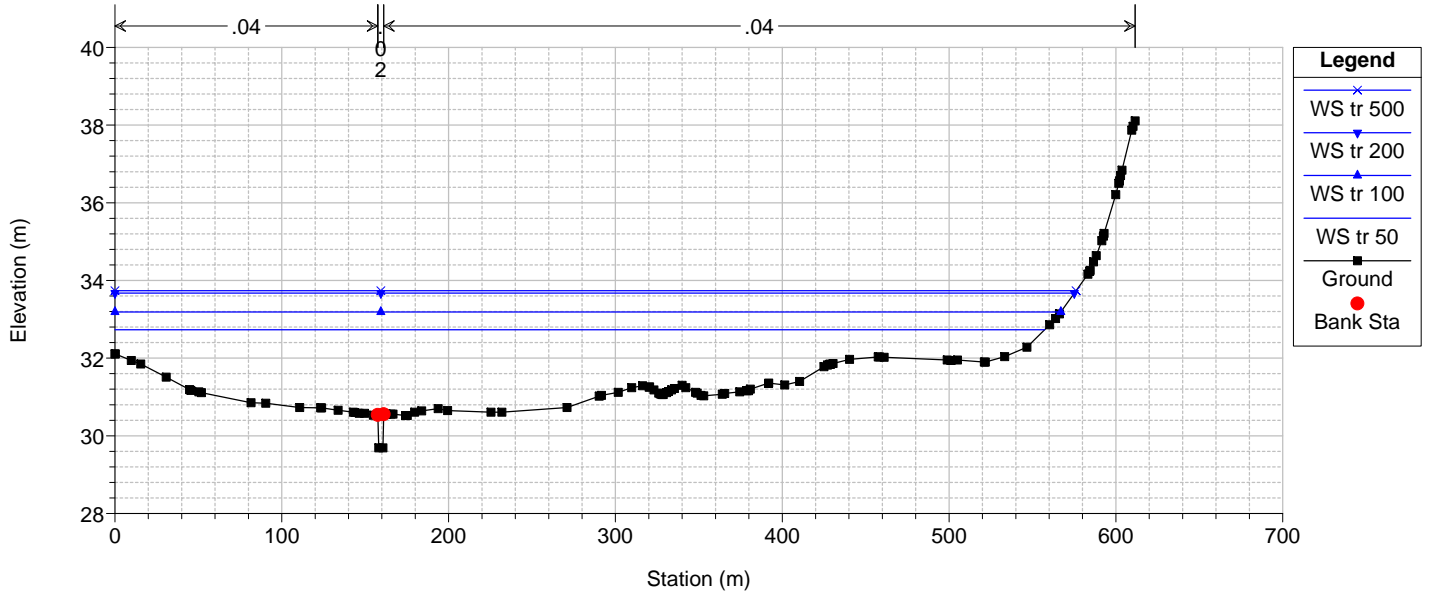
River = 090003_78574 Reach = asta RS = 390 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

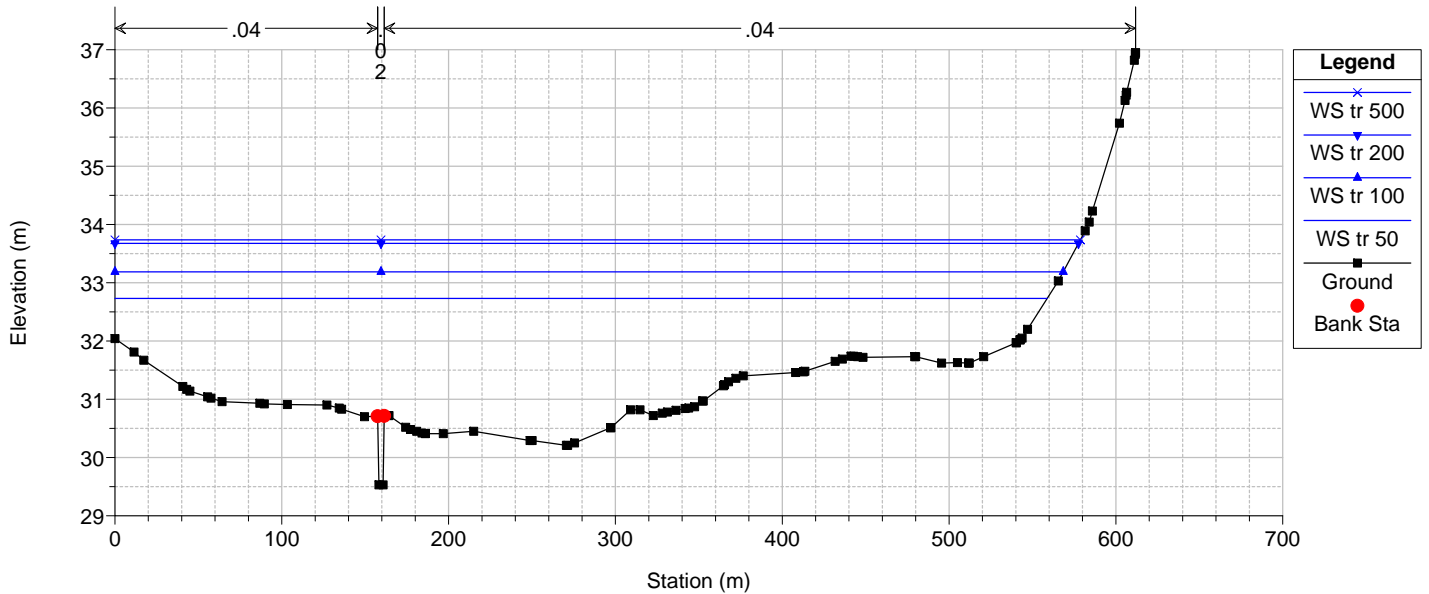
River = 090003_78574 Reach = asta RS = 352.833 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

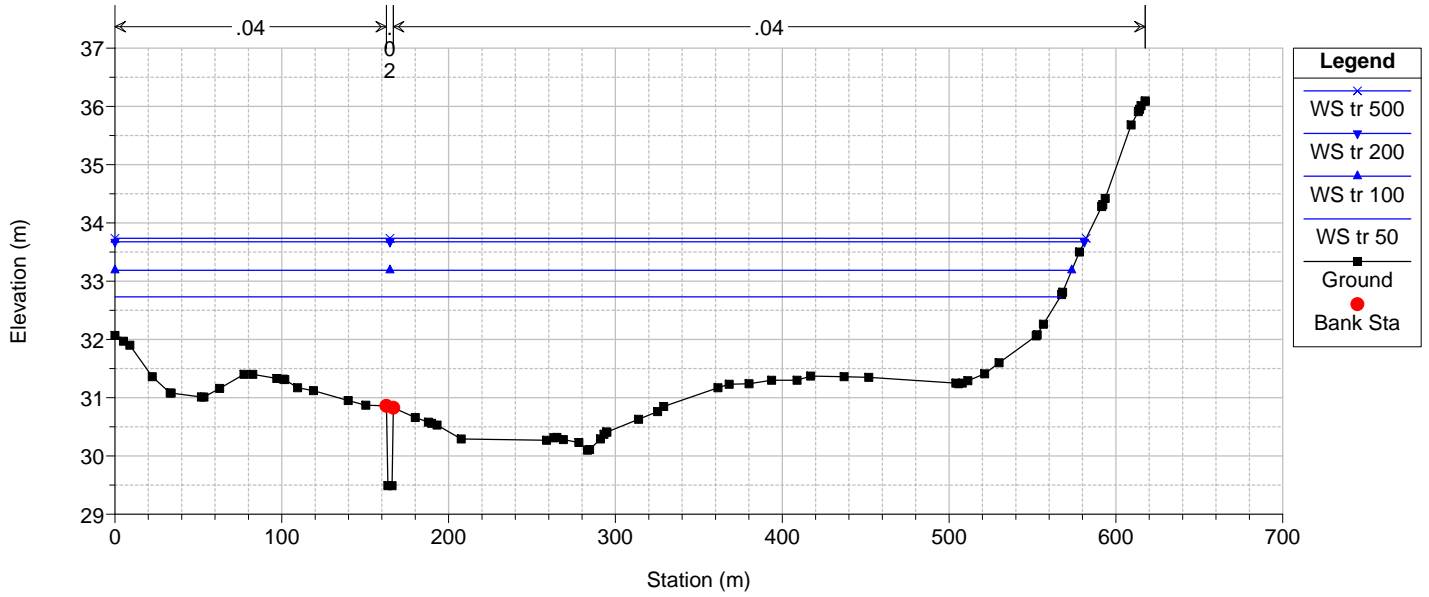
River = 090003_78574 Reach = asta RS = 334.9567 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

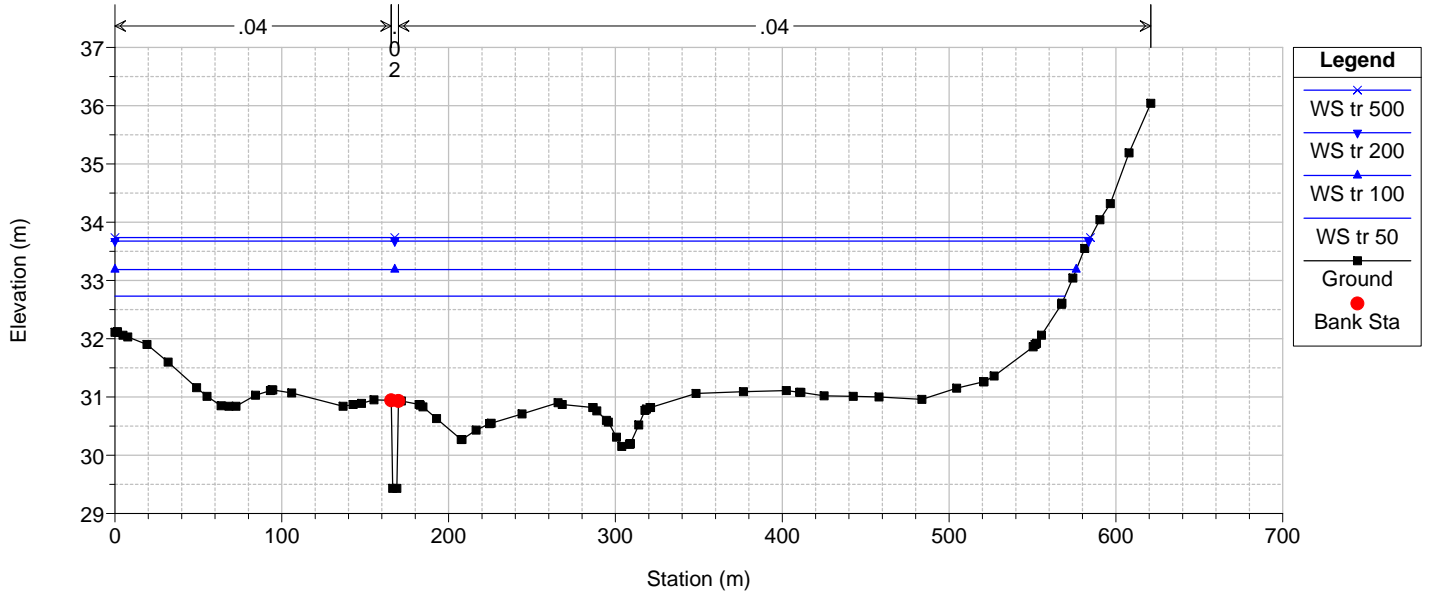
River = 090003_78574 Reach = asta RS = 300 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

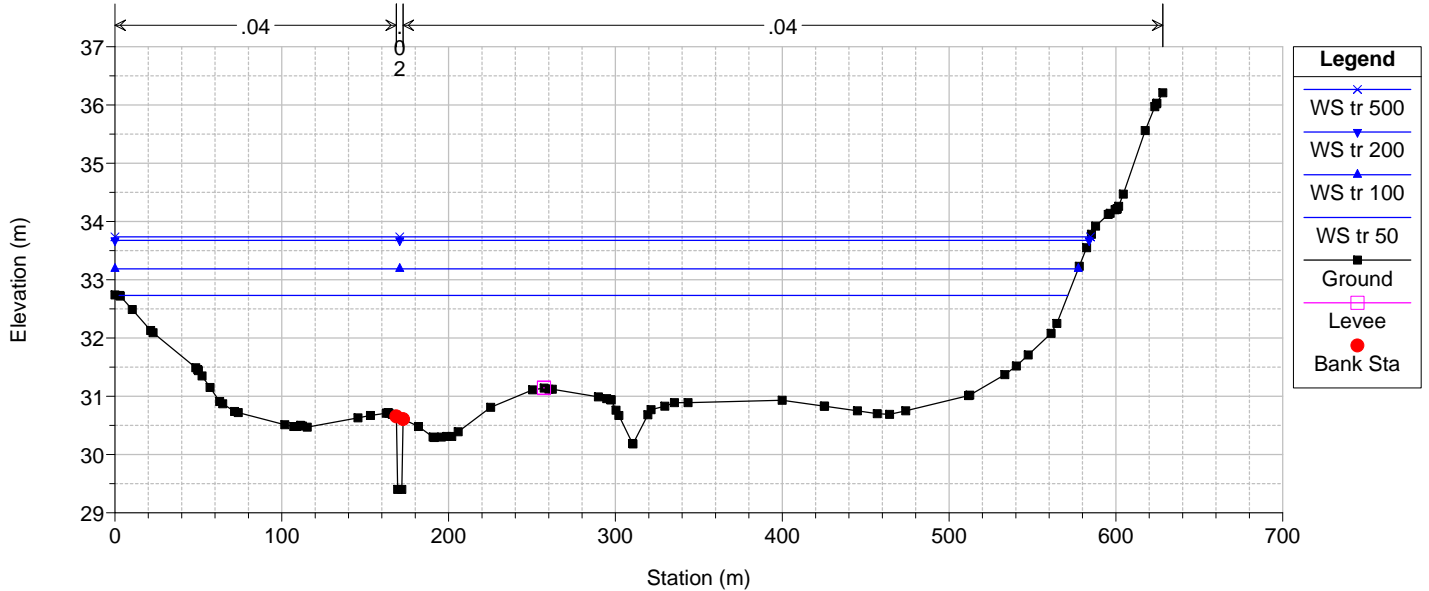
River = 090003_78574 Reach = asta RS = 269.9999 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

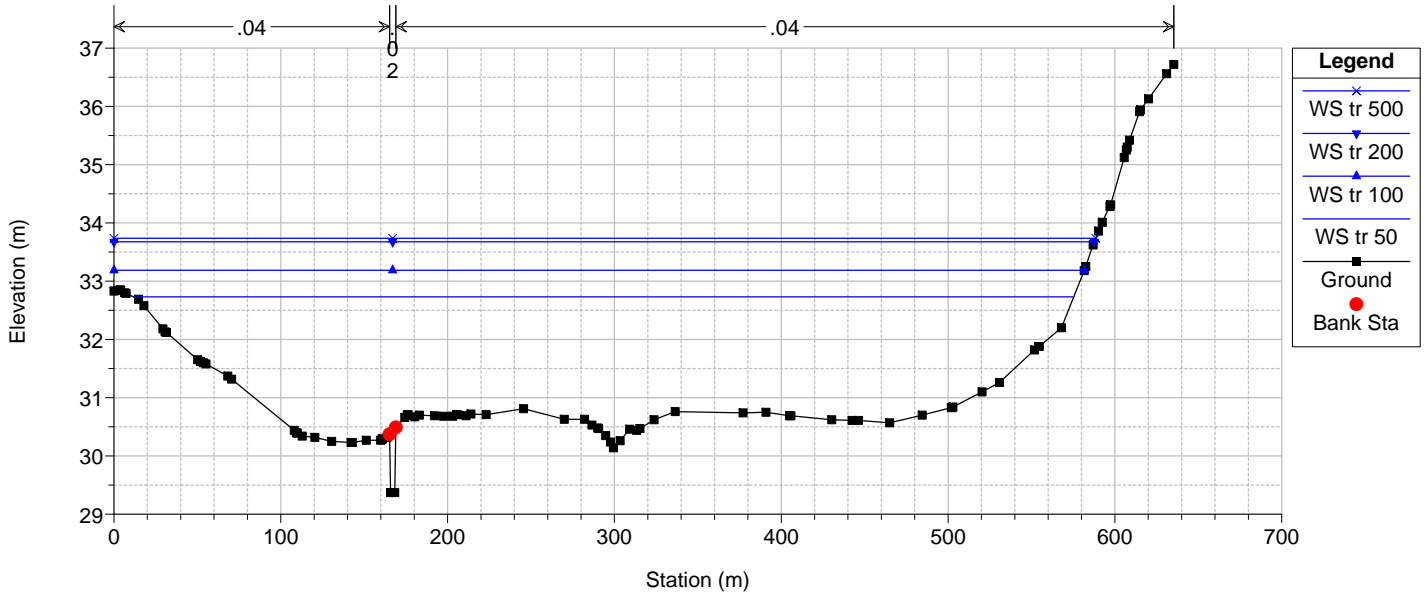
River = 090003_78574 Reach = asta RS = 240 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

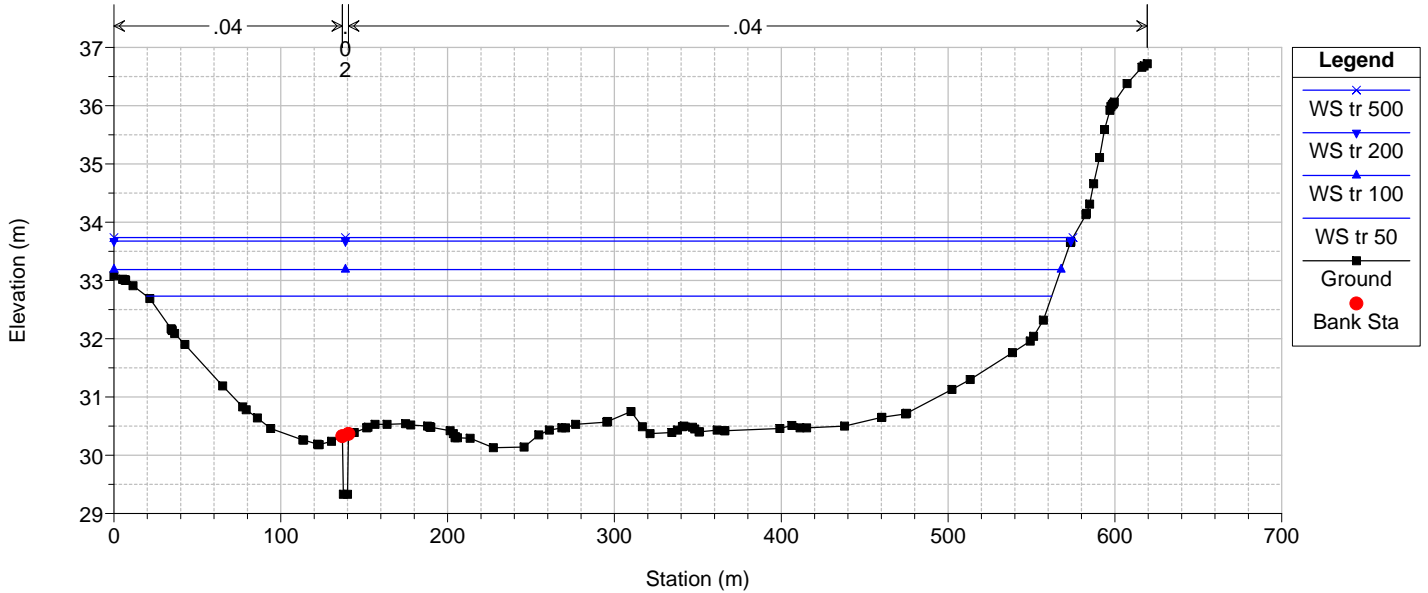
River = 090003_78574 Reach = asta RS = 210 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

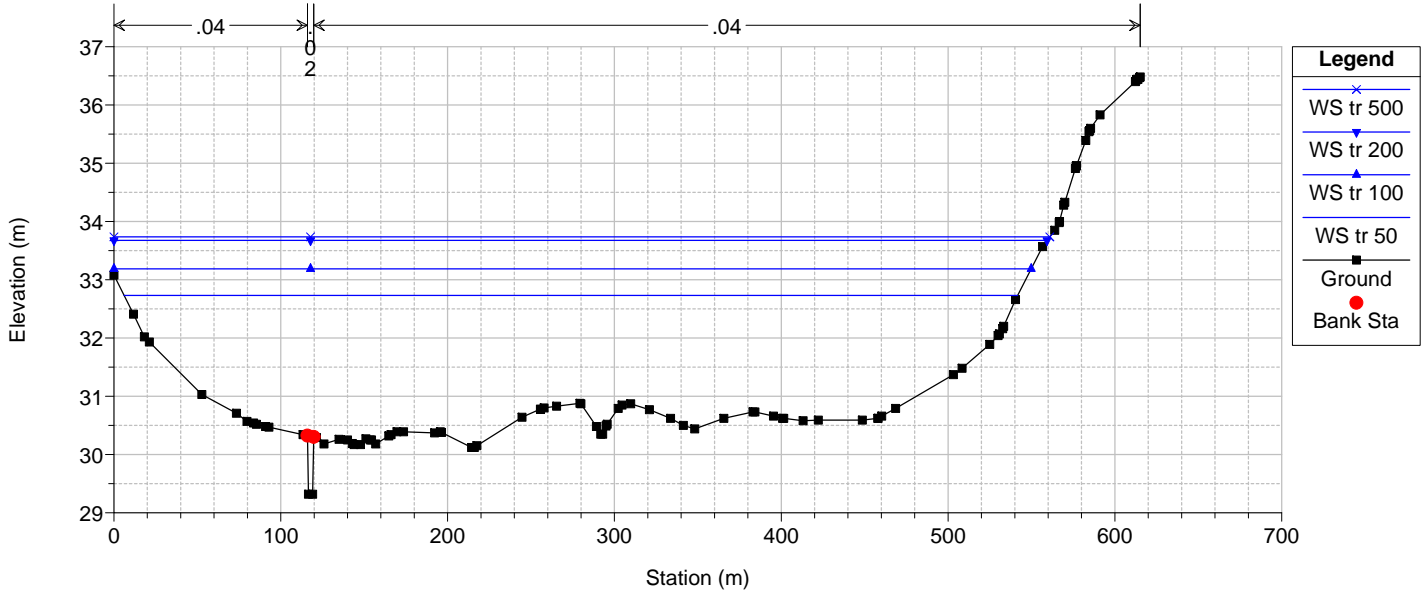
River = 090003_78574 Reach = asta RS = 180 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

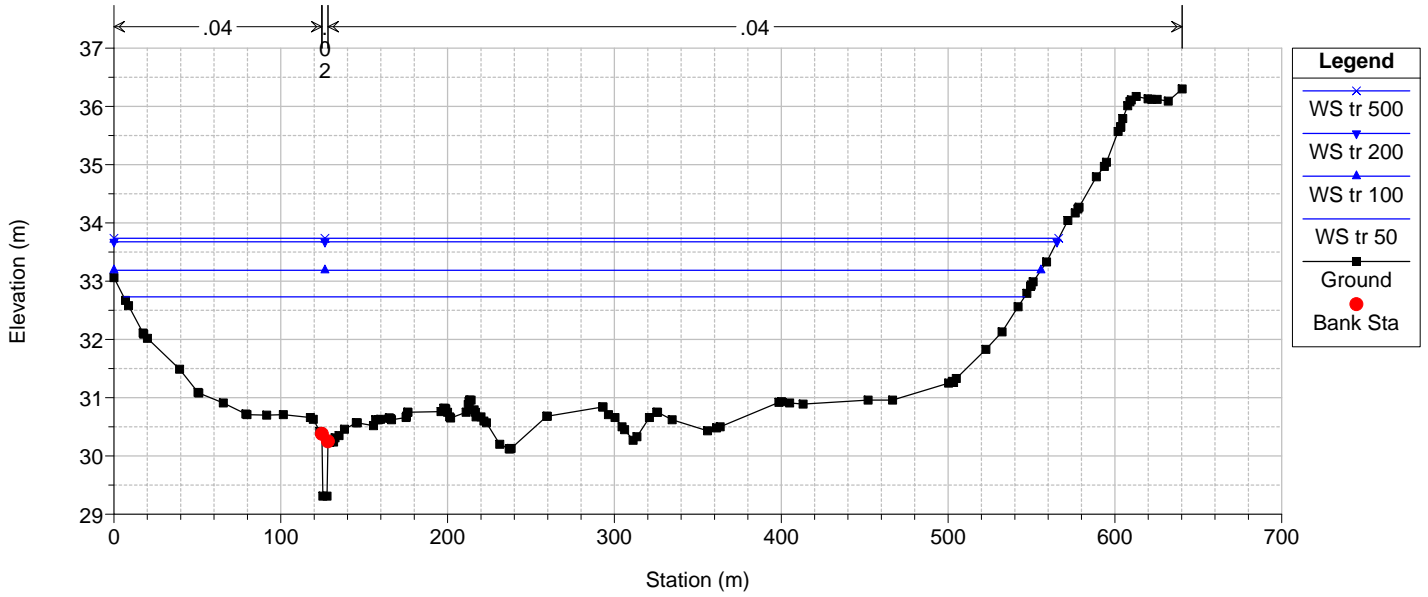
River = 090003_78574 Reach = asta RS = 150 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

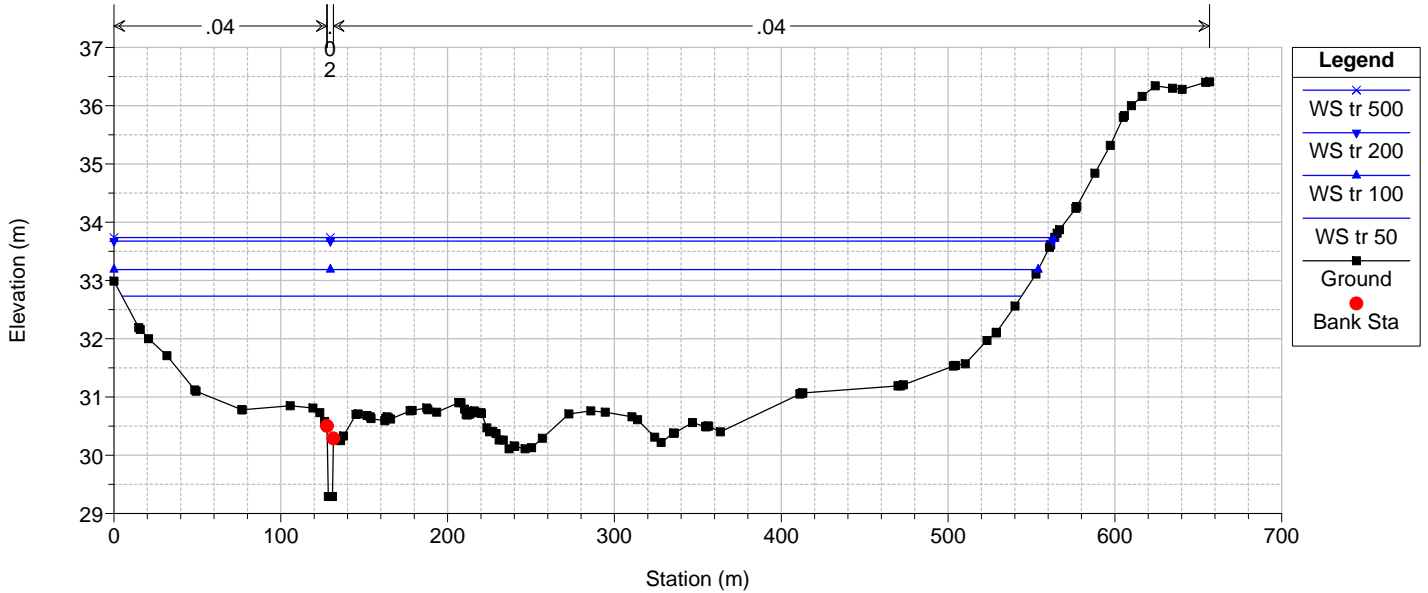
River = 090003_78574 Reach = asta RS = 120 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

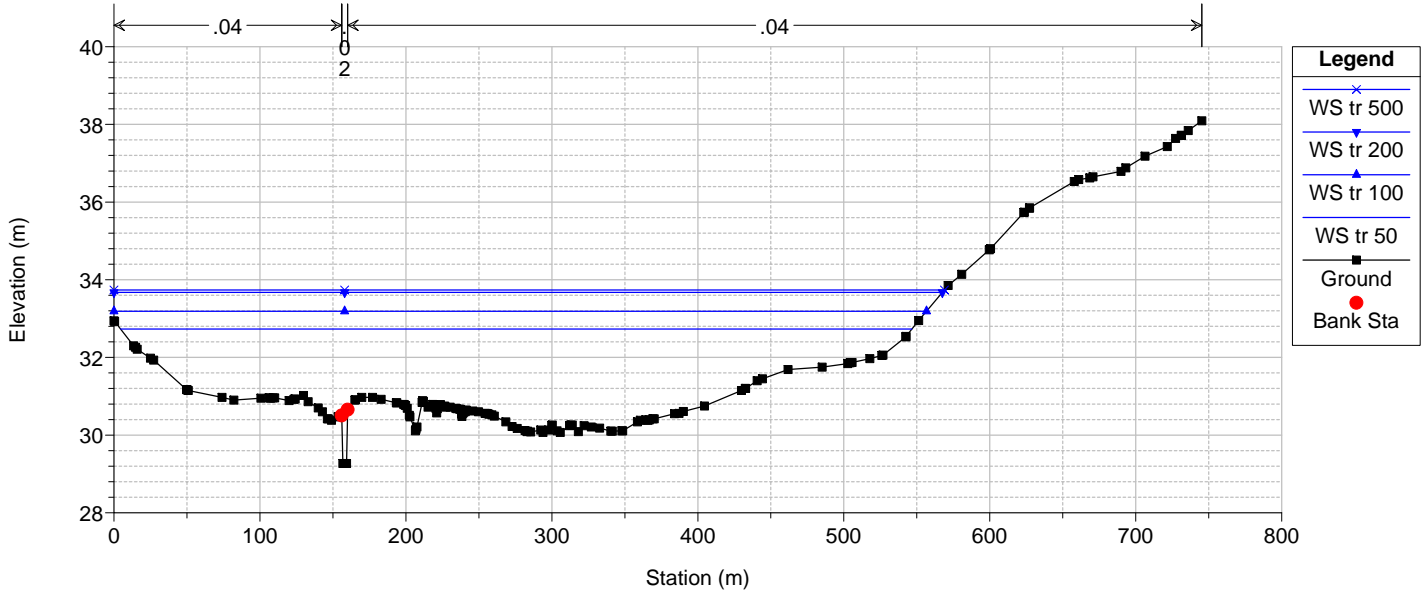
River = 090003_78574 Reach = asta RS = 105.6025 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

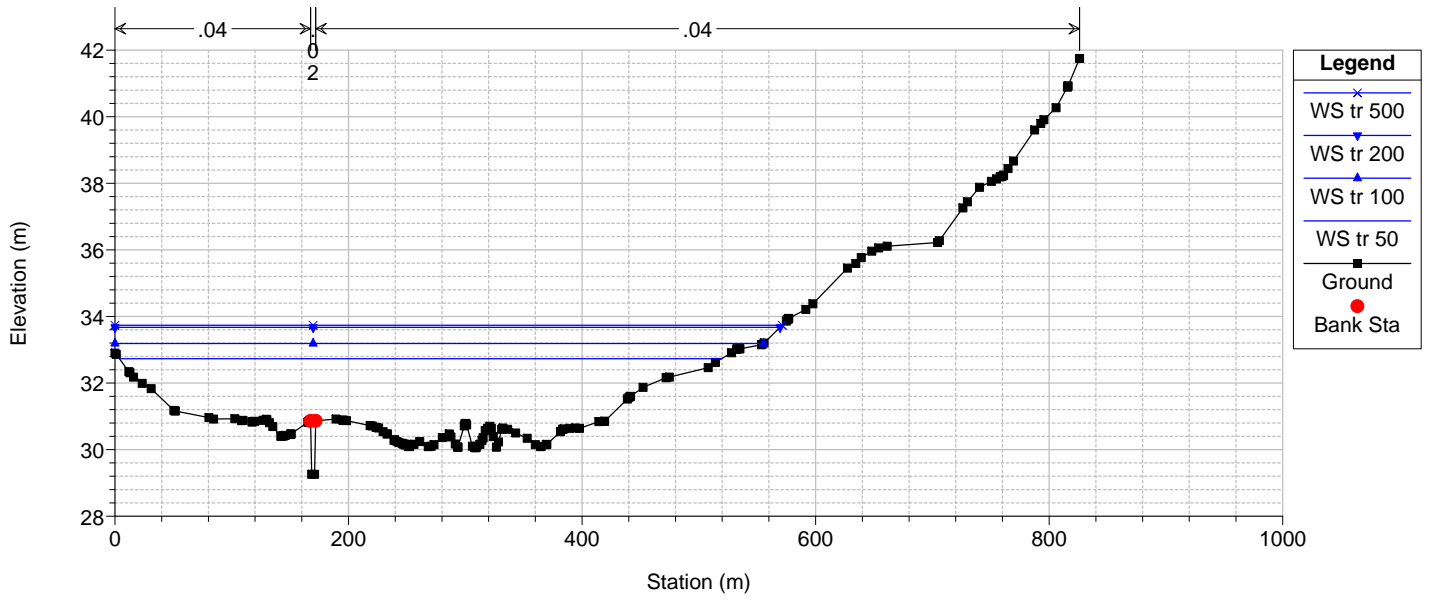
River = 090003_78574 Reach = asta RS = 60 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

River = 090003_78574 Reach = asta RS = 43.14976 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
asta	1680	tr 50	4.48	32.66	34.02	33.32	34.07	0.000569	1.03	4.90	19.80	0.31
asta	1680	tr 100	5.11	32.66	34.14	33.37	34.18	0.000449	0.97	8.68	41.14	0.28
asta	1680	tr 200	5.75	32.66	34.26	33.43	34.29	0.000302	0.85	14.51	54.35	0.23
asta	1680	tr 500	6.64	32.66	34.39	33.50	34.40	0.000205	0.74	22.09	66.24	0.19
asta	1650	tr 50	4.48	32.64	34.00		34.06	0.000583	1.02	4.92	20.86	0.31
asta	1650	tr 100	5.11	32.64	34.13		34.17	0.000411	0.91	11.76	90.05	0.26
asta	1650	tr 200	5.75	32.64	34.26		34.28	0.000181	0.64	26.13	122.02	0.18
asta	1650	tr 500	6.64	32.64	34.39		34.40	0.000092	0.49	42.86	142.88	0.13
asta	1620	tr 50	4.48	32.62	33.98		34.04	0.000591	1.03	4.34	3.86	0.31
asta	1620	tr 100	5.11	32.62	34.10	33.33	34.15	0.000522	1.01	8.32	82.03	0.29
asta	1620	tr 200	5.75	32.62	34.26		34.27	0.000156	0.60	32.26	171.32	0.16
asta	1620	tr 500	6.64	32.62	34.39		34.39	0.000066	0.41	55.44	189.84	0.11
asta	1590	tr 50	4.48	32.60	33.97	33.26	34.02	0.000588	1.03	4.35	3.87	0.31
asta	1590	tr 100	5.11	32.60	34.08	33.32	34.14	0.000589	1.07	4.79	3.98	0.31
asta	1590	tr 200	5.75	32.60	34.23	33.37	34.26	0.000369	0.91	13.63	85.50	0.25
asta	1590	tr 500	6.64	32.60	34.37	33.44	34.39	0.000178	0.68	28.17	110.84	0.18
asta	1560	tr 50	4.48	32.58	33.95	33.24	34.00	0.000584	1.03	4.36	3.87	0.31
asta	1560	tr 100	5.11	32.58	34.06	33.30	34.12	0.000586	1.07	4.80	3.98	0.31
asta	1560	tr 200	5.75	32.58	34.19	33.35	34.25	0.000555	1.08	5.88	35.33	0.30
asta	1560	tr 500	6.64	32.58	34.35	33.42	34.38	0.000303	0.86	19.54	112.80	0.23
asta	1530	tr 50	4.48	32.57	33.93	33.23	33.98	0.000597	1.04	4.32	3.86	0.31
asta	1530	tr 100	5.11	32.57	34.04	33.29	34.10	0.000598	1.07	4.76	3.97	0.31
asta	1530	tr 200	5.75	32.57	34.17	33.34	34.23	0.000572	1.09	5.27	4.00	0.30
asta	1530	tr 500	6.64	32.57	34.30	33.41	34.36	0.000591	1.15	5.84	18.26	0.30
asta	1500	tr 50	4.48	32.55	33.91	33.21	33.97	0.000593	1.03	4.33	3.86	0.31
asta	1500	tr 100	5.11	32.55	34.02	33.26	34.08	0.000595	1.07	4.77	3.97	0.31
asta	1500	tr 200	5.75	32.55	34.16	33.32	34.21	0.000531	1.05	7.26	38.54	0.29
asta	1500	tr 500	6.64	32.55	34.31	33.40	34.34	0.000344	0.90	16.41	86.01	0.24
asta	1470	tr 50	4.48	32.54	33.89	33.20	33.95	0.000607	1.04	4.30	3.85	0.31
asta	1470	tr 100	5.11	32.54	34.00	33.26	34.06	0.000607	1.08	4.73	3.96	0.32
asta	1470	tr 200	5.75	32.54	34.14	33.31	34.19	0.000498	1.02	8.94	54.37	0.28
asta	1470	tr 500	6.64	32.54	34.31	33.38	34.33	0.000255	0.78	21.16	99.69	0.21
asta	1440	tr 50	4.48	32.52	33.88	33.18	33.93	0.000604	1.04	4.31	3.86	0.31
asta	1440	tr 100	5.11	32.52	33.99	33.24	34.05	0.000605	1.08	4.74	3.97	0.31
asta	1440	tr 200	5.75	32.52	34.12	33.29	34.18	0.000575	1.09	5.26	4.00	0.30
asta	1440	tr 500	6.64	32.52	34.25	33.37	34.31	0.000538	1.10	8.15	44.92	0.29
asta	1410	tr 50	4.48	32.50	33.86	33.16	33.91	0.000601	1.04	4.31	3.86	0.31
asta	1410	tr 100	5.11	32.50	33.97	33.22	34.03	0.000602	1.08	4.75	3.97	0.31
asta	1410	tr 200	5.75	32.50	34.10	33.27	34.16	0.000571	1.09	5.27	4.00	0.30
asta	1410	tr 500	6.64	32.50	34.23	33.34	34.30	0.000588	1.14	5.80	4.00	0.30
asta	1380	tr 50	4.48	32.47	33.84	33.13	33.89	0.000582	1.03	4.36	3.87	0.31
asta	1380	tr 100	5.11	32.47	33.95	33.18	34.01	0.000584	1.06	4.80	3.98	0.31
asta	1380	tr 200	5.75	32.47	34.08	33.24	34.14	0.000555	1.08	5.33	4.00	0.30
asta	1380	tr 500	6.64	32.47	34.21	33.31	34.28	0.000573	1.13	5.85	4.00	0.30
asta	1350	tr 50	4.48	32.46	33.82	33.12	33.88	0.000594	1.03	4.33	3.86	0.31
asta	1350	tr 100	5.11	32.46	33.93	33.18	33.99	0.000596	1.07	4.77	3.97	0.31
asta	1350	tr 200	5.75	32.46	34.07	33.23	34.13	0.000536	1.08	5.34	4.69	0.30
asta	1350	tr 500	6.64	32.46	34.20	33.30	34.26	0.000519	1.14	6.01	5.53	0.30
asta	1320	tr 50	4.48	32.44	33.80	33.10	33.86	0.000591	1.03	4.34	3.86	0.31
asta	1320	tr 100	5.11	32.44	33.92	33.16	33.97	0.000593	1.07	4.78	3.98	0.31
asta	1320	tr 200	5.75	32.44	34.05	33.21	34.11	0.000530	1.08	5.38	5.02	0.30
asta	1320	tr 500	6.64	32.44	34.18	33.28	34.25	0.000511	1.13	6.12	6.24	0.30
asta	1290	tr 50	4.48	32.42	33.79	33.08	33.84	0.000587	1.03	4.35	3.87	0.31
asta	1290	tr 100	5.11	32.42	33.90	33.14	33.96	0.000590	1.07	4.79	3.98	0.31
asta	1290	tr 200	5.75	32.42	34.04	33.19	34.09	0.000524	1.08	5.40	5.07	0.30
asta	1290	tr 500	6.64	32.42	34.17	33.26	34.23	0.000505	1.12	6.15	6.31	0.30
asta	1260	tr 50	4.48	32.37	33.77	33.03	33.82	0.000537	1.00	4.50	3.90	0.30
asta	1260	tr 100	5.11	32.37	33.88	33.08	33.94	0.000538	1.04	4.94	4.07	0.30
asta	1260	tr 200	5.75	32.37	34.02	33.14	34.08	0.000476	1.05	5.55	4.70	0.28
asta	1260	tr 500	6.64	32.37	34.16	33.21	34.22	0.000464	1.10	6.21	5.30	0.29
asta	1230	tr 50	4.48	32.32	33.76	32.97	33.81	0.000490	0.96	4.65	3.94	0.28
asta	1230	tr 100	5.11	32.32	33.87	33.03	33.92	0.000485	1.00	5.10	4.18	0.28
asta	1230	tr 200	5.75	32.32	34.01	33.09	34.06	0.000432	1.02	5.72	4.64	0.27
asta	1230	tr 500	6.64	32.32	34.14	33.16	34.20	0.000424	1.07	6.36	5.07	0.27
asta	1200	tr 50	4.48	32.26	33.75	32.92	33.79	0.000447	0.93	4.81	3.98	0.27
asta	1200	tr 100	5.11	32.26	33.86	32.98	33.91	0.000437	0.97	5.26	4.22	0.27
asta	1200	tr 200	5.75	32.26	34.00	33.04	34.05	0.000392	0.99	5.89	4.54	0.26

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
asta	1200	tr 500	6.64	32.26	34.13	33.11	34.19	0.000389	1.04	6.51	4.84	0.26
asta	1165.345	tr 50	4.48	32.21	33.73	32.87	33.78	0.000405	0.90	4.97	4.18	0.26
asta	1165.345	tr 100	5.11	32.21	33.85	32.93	33.89	0.000395	0.94	5.48	5.07	0.26
asta	1165.345	tr 200	5.75	32.21	33.99	32.98	34.04	0.000353	0.95	6.30	6.21	0.25
asta	1165.345	tr 500	6.64	32.21	34.12	33.06	34.17	0.000347	1.00	7.20	7.28	0.25
asta	1140	tr 50	4.48	32.16	33.73	32.82	33.77	0.000361	0.87	5.15	4.23	0.25
asta	1140	tr 100	5.11	32.16	33.84	32.88	33.88	0.000355	0.91	5.65	4.63	0.25
asta	1140	tr 200	5.75	32.16	33.98	32.93	34.03	0.000321	0.93	6.35	5.14	0.24
asta	1140	tr 500	6.64	32.16	34.12	33.00	34.17	0.000322	0.98	7.08	6.74	0.24
asta	1110	tr 50	4.48	32.11	33.72	32.77	33.75	0.000323	0.84	5.34	4.38	0.23
asta	1110	tr 100	5.11	32.11	33.83	32.82	33.87	0.000320	0.88	5.85	4.77	0.24
asta	1110	tr 200	5.75	32.11	33.98	32.88	34.02	0.000291	0.90	6.58	5.28	0.23
asta	1110	tr 500	6.64	32.11	34.11	32.95	34.16	0.000293	0.95	7.38	9.51	0.23
asta	1080	tr 50	4.48	32.06	33.71	32.72	33.74	0.000287	0.81	5.68	6.38	0.22
asta	1080	tr 100	5.11	32.06	33.82	32.77	33.86	0.000283	0.85	6.50	8.12	0.22
asta	1080	tr 200	5.75	32.06	33.97	32.83	34.01	0.000250	0.85	7.87	10.40	0.21
asta	1080	tr 500	6.64	32.06	34.11	32.90	34.15	0.000242	0.88	9.66	21.85	0.21
asta	1050	tr 50	9.76	32.00	33.49	33.08	33.70	0.002101	2.02	4.83	3.99	0.59
asta	1050	tr 100	11.21	32.00	33.57	33.17	33.81	0.002263	2.18	5.15	4.24	0.61
asta	1050	tr 200	12.67	32.00	33.71	33.27	33.96	0.002017	2.21	5.79	4.75	0.59
asta	1050	tr 500	14.68	32.00	33.80	33.38	34.10	0.002189	2.40	6.24	5.07	0.62
asta	1020	tr 50	9.76	31.95	33.42	33.03	33.64	0.002190	2.05	4.75	3.97	0.60
asta	1020	tr 100	11.21	31.95	33.49	33.12	33.74	0.002461	2.24	5.01	4.10	0.64
asta	1020	tr 200	12.67	31.95	33.64	33.21	33.90	0.002107	2.24	5.70	4.54	0.60
asta	1020	tr 500	14.68	31.95	33.72	33.33	34.02	0.002395	2.47	6.03	4.74	0.65
asta	990	tr 50	9.76	31.90	33.34		33.57	0.002322	2.10	4.65	3.94	0.62
asta	990	tr 100	11.21	31.90	33.38		33.66	0.002795	2.33	4.81	3.98	0.68
asta	990	tr 200	12.67	31.90	33.57		33.84	0.002217	2.28	5.60	4.48	0.62
asta	990	tr 500	14.68	31.90	33.62		33.95	0.002667	2.55	5.81	4.61	0.68
asta	960.0001	tr 50	9.76	31.85	33.26	32.92	33.49	0.002528	2.16	4.51	3.91	0.64
asta	960.0001	tr 100	11.21	31.85	33.24	33.02	33.56	0.003468	2.52	4.44	3.89	0.75
asta	960.0001	tr 200	12.67	31.85	33.49	33.11	33.77	0.002356	2.32	5.54	5.15	0.63
asta	960.0001	tr 500	14.68	31.85	33.48	33.23	33.86	0.003234	2.70	5.49	5.08	0.74
asta	930.0001	tr 50	9.76	31.80	33.18	32.87	33.42	0.002627	2.19	4.84	19.01	0.66
asta	930.0001	tr 100	11.21	31.80	33.35	33.35	33.44	0.001142	1.54	12.48	76.42	0.44
asta	930.0001	tr 200	12.67	31.80	33.68		33.68	0.000072	0.45	56.90	193.43	0.11
asta	930.0001	tr 500	14.68	31.80	33.74		33.74	0.000057	0.41	68.81	196.53	0.10
asta	900	tr 50	9.76	31.75	32.82	32.82	33.28	0.006193	3.00	3.26	3.59	1.00
asta	900	tr 100	11.21	31.75	33.09	33.15	33.25	0.002255	2.03	8.56	52.97	0.61
asta	900	tr 200	12.67	31.75	33.68		33.68	0.000023	0.27	85.66	206.94	0.07
asta	900	tr 500	14.68	31.75	33.74		33.74	0.000021	0.26	98.47	214.57	0.06
asta	883.6661	tr 50	9.76	31.49	32.35	32.56	33.11	0.012539	3.85	2.53	3.36	1.42
asta	883.6661	tr 100	11.21	31.49	33.18	32.91	33.20	0.000182	0.66	25.53	71.02	0.18
asta	883.6661	tr 200	12.67	31.49	33.68	32.93	33.68	0.000009	0.18	114.04	215.08	0.04
asta	883.6661	tr 500	14.68	31.49	33.74	32.96	33.74	0.000009	0.19	127.31	221.73	0.04
asta	861.584	tr 50	9.76	31.13	32.68	32.20	32.78	0.001149	1.54	8.70	33.14	0.44
asta	861.584	tr 100	11.21	31.13	33.19	32.30	33.19	0.000057	0.43	39.07	83.90	0.10
asta	861.584	tr 200	12.67	31.13	33.68	32.39	33.68	0.000004	0.13	179.71	326.78	0.03
asta	861.584	tr 500	14.68	31.13	33.74	32.76	33.74	0.000004	0.13	199.73	331.88	0.03
asta	840.0001	tr 50	25.53	30.46	32.70	32.48	32.75	0.000581	1.49	50.43	130.92	0.34
asta	840.0001	tr 100	29.99	30.46	33.19	32.56	33.19	0.000051	0.51	186.87	283.23	0.11
asta	840.0001	tr 200	34.49	30.46	33.68	32.61	33.68	0.000012	0.28	333.65	316.04	0.05
asta	840.0001	tr 500	40.53	30.46	33.74	32.65	33.74	0.000014	0.31	352.91	319.73	0.06
asta	824.9322	tr 50	25.53	30.41	32.73	32.30	32.74	0.000087	0.59	134.82	243.05	0.13
asta	824.9322	tr 100	29.99	30.41	33.19	32.30	33.19	0.000020	0.32	252.01	271.20	0.07
asta	824.9322	tr 200	34.49	30.41	33.68	32.43	33.68	0.000007	0.22	392.08	301.23	0.04
asta	824.9322	tr 500	40.53	30.41	33.74	32.43	33.74	0.000008	0.24	410.42	304.50	0.04
asta	810.0001	tr 50	25.53	30.28	32.73	32.15	32.73	0.000039	0.41	177.07	248.21	0.09
asta	810.0001	tr 100	29.99	30.28	33.19	32.15	33.19	0.000012	0.26	298.42	284.49	0.05
asta	810.0001	tr 200	34.49	30.28	33.68	32.18	33.68	0.000005	0.18	459.90	366.22	0.03
asta	810.0001	tr 500	40.53	30.28	33.74	32.21	33.74	0.000006	0.21	482.33	373.81	0.04
asta	780.0001	tr 50	25.53	30.23	32.73	31.55	32.73	0.000011	0.24	267.50	257.59	0.05
asta	780.0001	tr 100	29.99	30.23	33.19	31.57	33.19	0.000005	0.18	401.19	343.91	0.03
asta	780.0001	tr 200	34.49	30.23	33.68	31.61	33.68	0.000002	0.14	578.88	397.15	0.02
asta	780.0001	tr 500	40.53	30.23	33.74	31.65	33.74	0.000003	0.16	603.33	409.47	0.03
asta	750.0001	tr 50	25.53	30.10	32.73		32.73	0.000005	0.17	366.71	329.84	0.03

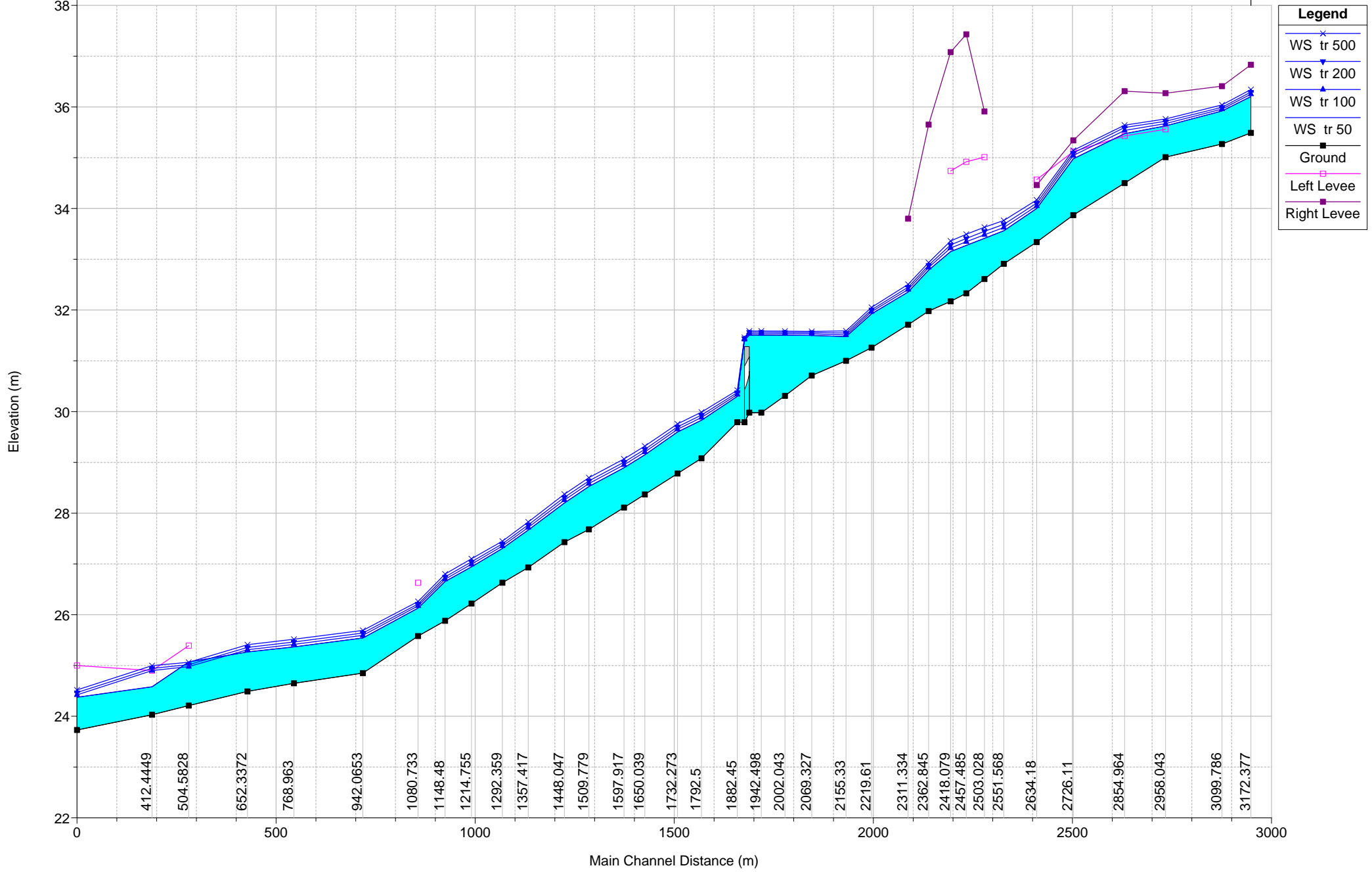
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
asta	750.0001	tr 100	29.99	30.10	33.19		33.19	0.000002	0.13	528.30	378.81	0.02
asta	750.0001	tr 200	34.49	30.10	33.68		33.68	0.000001	0.11	735.49	477.12	0.02
asta	750.0001	tr 500	40.53	30.10	33.74		33.74	0.000002	0.12	764.46	478.92	0.02
asta	720	tr 50	25.53	30.07	32.73		32.73	0.000003	0.13	416.39	379.82	0.03
asta	720	tr 100	29.99	30.07	33.19		33.19	0.000002	0.10	623.72	471.35	0.02
asta	720	tr 200	34.49	30.07	33.68		33.68	0.000001	0.08	854.45	476.40	0.01
asta	720	tr 500	40.53	30.07	33.74		33.74	0.000001	0.10	883.35	477.03	0.02
asta	690	tr 50	25.53	29.96	32.73	31.01	32.73	0.000003	0.15	475.60	437.23	0.03
asta	690	tr 100	29.99	29.96	33.19	31.04	33.19	0.000002	0.11	677.85	447.51	0.02
asta	690	tr 200	34.49	29.96	33.68	31.07	33.68	0.000001	0.09	897.88	456.39	0.02
asta	690	tr 500	40.53	29.96	33.74	31.10	33.74	0.000001	0.10	925.58	457.57	0.02
asta	660	tr 50	25.53	29.93	32.73	31.52	32.73	0.000003	0.13	480.00	419.00	0.03
asta	660	tr 100	29.99	29.93	33.19	31.56	33.19	0.000001	0.10	677.44	447.44	0.02
asta	660	tr 200	34.49	29.93	33.68	31.59	33.68	0.000001	0.08	902.09	484.28	0.01
asta	660	tr 500	40.53	29.93	33.74	31.62	33.74	0.000001	0.09	931.75	494.41	0.02
asta	619.4314	tr 50	25.53	29.91	32.73	31.87	32.73	0.000003	0.12	467.06	386.47	0.03
asta	619.4314	tr 100	29.99	29.91	33.19	31.90	33.19	0.000001	0.10	645.07	393.58	0.02
asta	619.4314	tr 200	34.49	29.91	33.68	31.95	33.68	0.000001	0.08	839.19	405.15	0.01
asta	619.4314	tr 500	40.53	29.91	33.74	31.99	33.74	0.000001	0.09	863.78	406.77	0.02
asta	604.3116	tr 50	25.53	29.90	32.73	31.75	32.73	0.000002	0.11	499.40	386.91	0.02
asta	604.3116	tr 100	29.99	29.90	33.19	31.78	33.19	0.000001	0.09	677.07	391.52	0.02
asta	604.3116	tr 200	34.49	29.90	33.68	31.82	33.68	0.000001	0.08	868.93	396.42	0.01
asta	604.3116	tr 500	40.53	29.90	33.74	31.86	33.74	0.000001	0.09	892.97	397.06	0.01
asta	570	tr 50	25.53	29.88	32.73	31.57	32.73	0.000002	0.10	566.67	479.36	0.02
asta	570	tr 100	29.99	29.88	33.19	31.60	33.19	0.000001	0.08	787.58	488.47	0.01
asta	570	tr 200	34.49	29.88	33.68	31.65	33.68	0.000001	0.07	1027.06	494.86	0.01
asta	570	tr 500	40.53	29.88	33.74	31.65	33.74	0.000001	0.08	1057.07	495.62	0.01
asta	540.0001	tr 50	25.53	29.85	32.73	31.43	32.73	0.000002	0.09	607.72	473.07	0.02
asta	540.0001	tr 100	29.99	29.85	33.19	31.45	33.19	0.000001	0.08	834.62	530.95	0.01
asta	540.0001	tr 200	34.49	29.85	33.68	31.49	33.68	0.000000	0.06	1108.17	585.03	0.01
asta	540.0001	tr 500	40.53	29.85	33.74	31.52	33.74	0.000001	0.07	1143.70	587.86	0.01
asta	510	tr 50	25.53	29.83	32.73	31.13	32.73	0.000002	0.09	599.98	453.83	0.02
asta	510	tr 100	29.99	29.83	33.19	31.15	33.19	0.000001	0.08	820.66	527.77	0.01
asta	510	tr 200	34.49	29.83	33.68	31.17	33.68	0.000001	0.07	1091.69	569.07	0.01
asta	510	tr 500	40.53	29.83	33.74	31.21	33.74	0.000001	0.07	1126.25	571.91	0.01
asta	480	tr 50	25.53	29.78	32.73		32.73	0.000002	0.11	554.81	444.82	0.02
asta	480	tr 100	29.99	29.78	33.19		33.19	0.000001	0.09	783.15	538.15	0.02
asta	480	tr 200	34.49	29.78	33.68		33.68	0.000001	0.07	1050.89	561.33	0.01
asta	480	tr 500	40.53	29.78	33.74		33.74	0.000001	0.08	1084.98	563.86	0.01
asta	450	tr 50	25.53	29.76	32.73	31.15	32.73	0.000003	0.13	486.64	450.54	0.03
asta	450	tr 100	29.99	29.76	33.19	31.19	33.19	0.000001	0.10	740.80	536.73	0.02
asta	450	tr 200	34.49	29.76	33.68	31.21	33.68	0.000001	0.08	1007.22	555.95	0.01
asta	450	tr 500	40.53	29.76	33.74	31.24	33.74	0.000001	0.09	1040.98	558.78	0.02
asta	420.0001	tr 50	25.53	29.75	32.73	31.17	32.73	0.000003	0.14	467.54	443.64	0.03
asta	420.0001	tr 100	29.99	29.75	33.19	31.20	33.19	0.000002	0.11	679.19	484.61	0.02
asta	420.0001	tr 200	34.49	29.75	33.68	31.24	33.68	0.000001	0.08	987.71	561.48	0.01
asta	420.0001	tr 500	40.53	29.75	33.74	31.28	33.74	0.000001	0.09	1021.81	563.95	0.02
asta	390	tr 50	25.53	29.73	32.73		32.73	0.000002	0.12	609.48	550.48	0.02
asta	390	tr 100	29.99	29.73	33.19		33.19	0.000001	0.09	864.63	565.07	0.02
asta	390	tr 200	34.49	29.73	33.68		33.68	0.000001	0.07	1142.83	577.29	0.01
asta	390	tr 500	40.53	29.73	33.74		33.74	0.000001	0.08	1177.84	578.86	0.01
asta	352.833	tr 50	25.53	29.69	32.73		32.73	0.000001	0.08	836.09	557.29	0.01
asta	352.833	tr 100	29.99	29.69	33.19		33.19	0.000000	0.07	1092.96	566.98	0.01
asta	352.833	tr 200	34.49	29.69	33.68		33.68	0.000000	0.06	1371.11	575.11	0.01
asta	352.833	tr 500	40.53	29.69	33.74		33.74	0.000000	0.07	1405.97	576.12	0.01
asta	334.9567	tr 50	25.53	29.53	32.73		32.73	0.000001	0.07	917.73	558.84	0.01
asta	334.9567	tr 100	29.99	29.53	33.19		33.19	0.000000	0.06	1175.25	568.44	0.01
asta	334.9567	tr 200	34.49	29.53	33.68		33.68	0.000000	0.05	1454.35	577.57	0.01
asta	334.9567	tr 500	40.53	29.53	33.74		33.74	0.000000	0.06	1489.36	578.70	0.01
asta	300	tr 50	25.53	29.49	32.73		32.73	0.000001	0.06	953.12	566.69	0.01
asta	300	tr 100	29.99	29.49	33.19		33.19	0.000000	0.05	1213.56	573.57	0.01
asta	300	tr 200	34.49	29.49	33.68		33.68	0.000000	0.05	1494.71	581.12	0.01
asta	300	tr 500	40.53	29.49	33.74		33.74	0.000000	0.06	1529.94	582.16	0.01
asta	269.9999	tr 50	25.53	29.43	32.73		32.73	0.000001	0.06	965.19	569.50	0.01
asta	269.9999	tr 100	29.99	29.43	33.19		33.19	0.000000	0.05	1226.87	576.25	0.01
asta	269.9999	tr 200	34.49	29.43	33.68		33.68	0.000000	0.05	1509.26	583.66	0.01
asta	269.9999	tr 500	40.53	29.43	33.74		33.74	0.000000	0.05	1544.64	584.78	0.01

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
asta	240	tr 50	25.53	29.40	32.73	30.78	32.73	0.000000	0.06	1007.07	568.71	0.01
asta	240	tr 100	29.99	29.40	33.19	30.81	33.19	0.000000	0.05	1269.38	577.47	0.01
asta	240	tr 200	34.49	29.40	33.68	30.83	33.68	0.000000	0.05	1552.29	584.03	0.01
asta	240	tr 500	40.53	29.40	33.74	30.86	33.74	0.000000	0.05	1587.68	584.77	0.01
asta	210	tr 50	25.53	29.37	32.73		32.73	0.000000	0.06	1044.95	563.71	0.01
asta	210	tr 100	29.99	29.37	33.19		33.19	0.000000	0.05	1308.34	581.68	0.01
asta	210	tr 200	34.49	29.37	33.68		33.68	0.000000	0.05	1593.15	587.70	0.01
asta	210	tr 500	40.53	29.37	33.74		33.74	0.000000	0.05	1628.76	588.49	0.01
asta	180	tr 50	25.53	29.33	32.73		32.73	0.000000	0.05	1081.83	542.59	0.01
asta	180	tr 100	29.99	29.33	33.19		33.19	0.000000	0.05	1335.99	567.74	0.01
asta	180	tr 200	34.49	29.33	33.68		33.68	0.000000	0.05	1613.98	573.67	0.01
asta	180	tr 500	40.53	29.33	33.74		33.74	0.000000	0.05	1648.75	574.87	0.01
asta	150	tr 50	25.53	29.32	32.73		32.73	0.000000	0.06	1049.31	535.63	0.01
asta	150	tr 100	29.99	29.32	33.19		33.19	0.000000	0.05	1297.53	549.83	0.01
asta	150	tr 200	34.49	29.32	33.68		33.68	0.000000	0.05	1567.51	559.37	0.01
asta	150	tr 500	40.53	29.32	33.74		33.74	0.000000	0.05	1601.43	560.95	0.01
asta	120	tr 50	25.53	29.31	32.73		32.73	0.000000	0.06	989.62	540.11	0.01
asta	120	tr 100	29.99	29.31	33.19		33.19	0.000000	0.06	1240.16	555.68	0.01
asta	120	tr 200	34.49	29.31	33.68		33.68	0.000000	0.05	1513.30	565.24	0.01
asta	120	tr 500	40.53	29.31	33.74		33.74	0.000000	0.06	1547.56	566.33	0.01
asta	105.6025	tr 50	25.53	29.29	32.73		32.73	0.000000	0.06	969.71	539.21	0.01
asta	105.6025	tr 100	29.99	29.29	33.19		33.19	0.000000	0.06	1219.96	554.08	0.01
asta	105.6025	tr 200	34.49	29.29	33.68		33.68	0.000000	0.05	1491.95	562.75	0.01
asta	105.6025	tr 500	40.53	29.29	33.74		33.74	0.000000	0.06	1526.06	563.86	0.01
asta	60	tr 50	25.53	29.27	32.73		32.73	0.000001	0.06	950.30	542.11	0.01
asta	60	tr 100	29.99	29.27	33.19		33.19	0.000000	0.06	1201.75	556.64	0.01
asta	60	tr 200	34.49	29.27	33.68		33.68	0.000000	0.05	1475.55	567.53	0.01
asta	60	tr 500	40.53	29.27	33.74		33.74	0.000000	0.06	1509.95	568.89	0.01
asta	43.14976	tr 50	25.53	29.26	32.73		32.73	0.000001	0.07	901.44	515.68	0.01
asta	43.14976	tr 100	29.99	29.26	33.19		33.19	0.000000	0.06	1144.81	555.30	0.01
asta	43.14976	tr 200	34.49	29.26	33.68		33.68	0.000000	0.05	1418.84	569.61	0.01
asta	43.14976	tr 500	40.53	29.26	33.74		33.74	0.000000	0.06	1453.38	571.36	0.01

urune26062017

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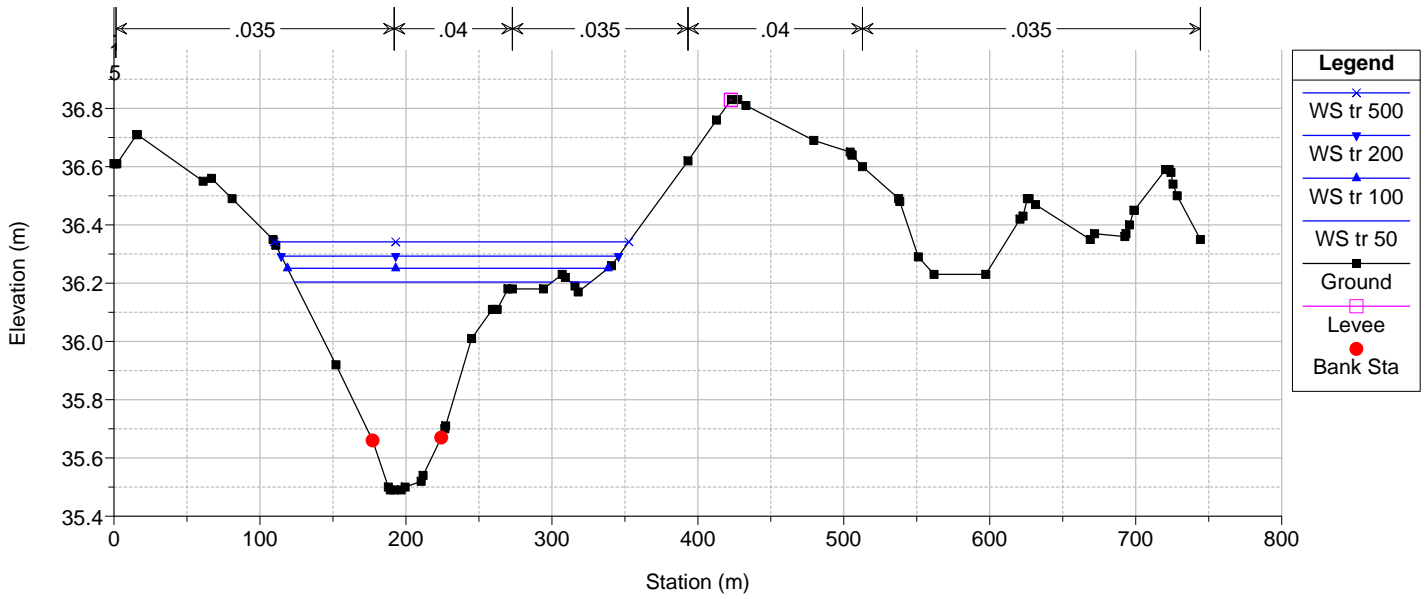
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urune26062017

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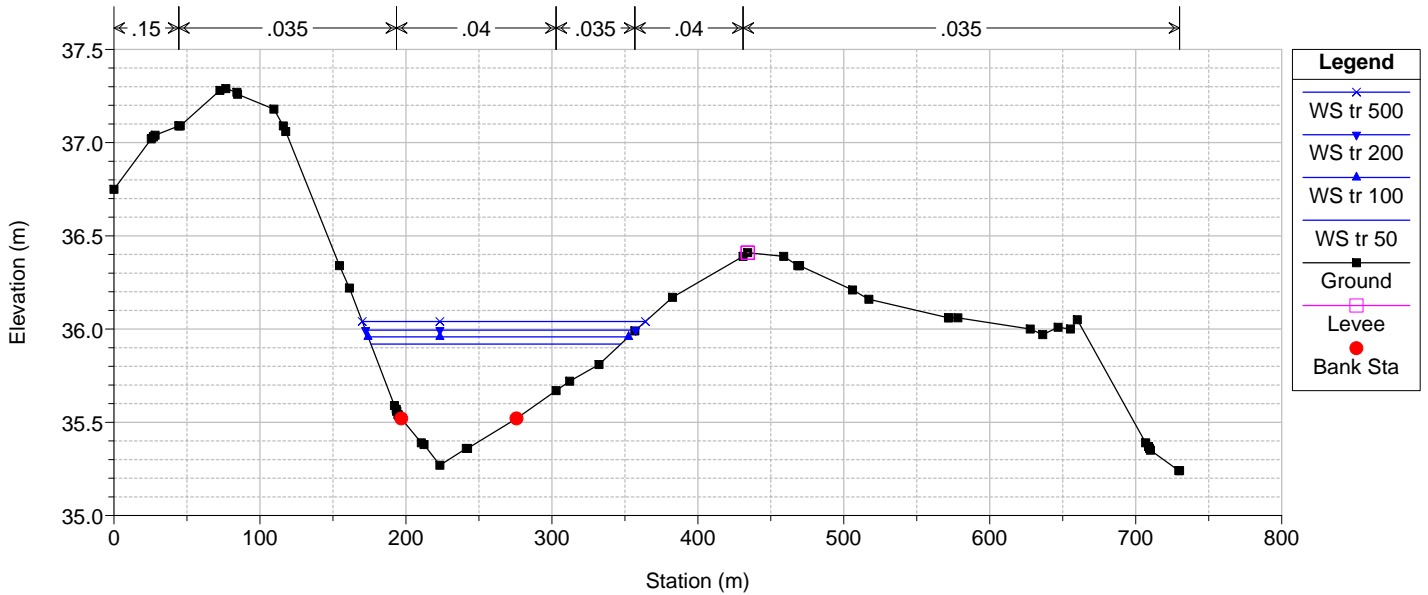
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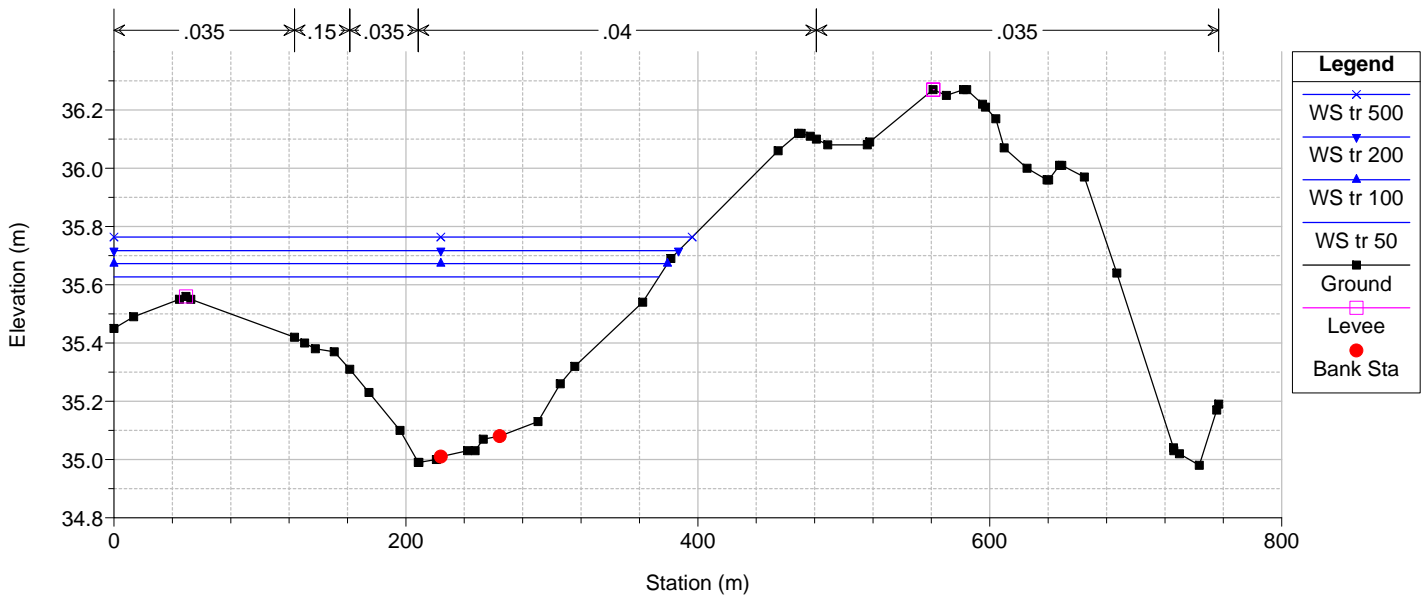
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urune26062017

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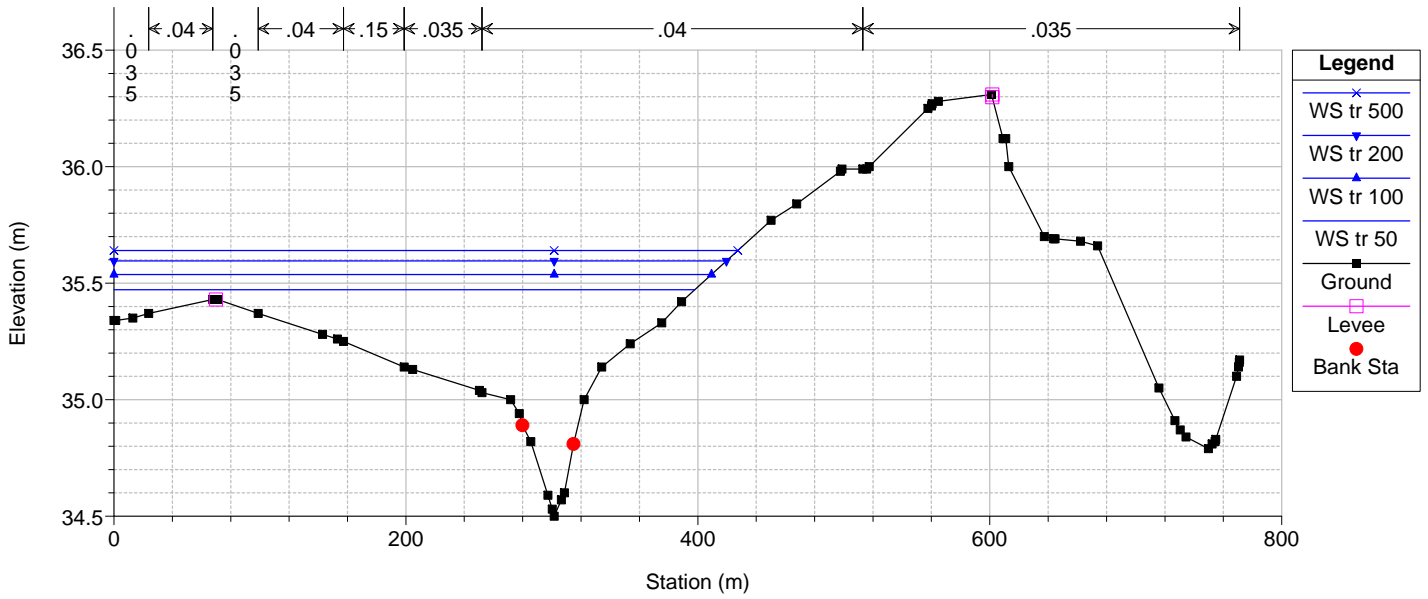
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urune26062017

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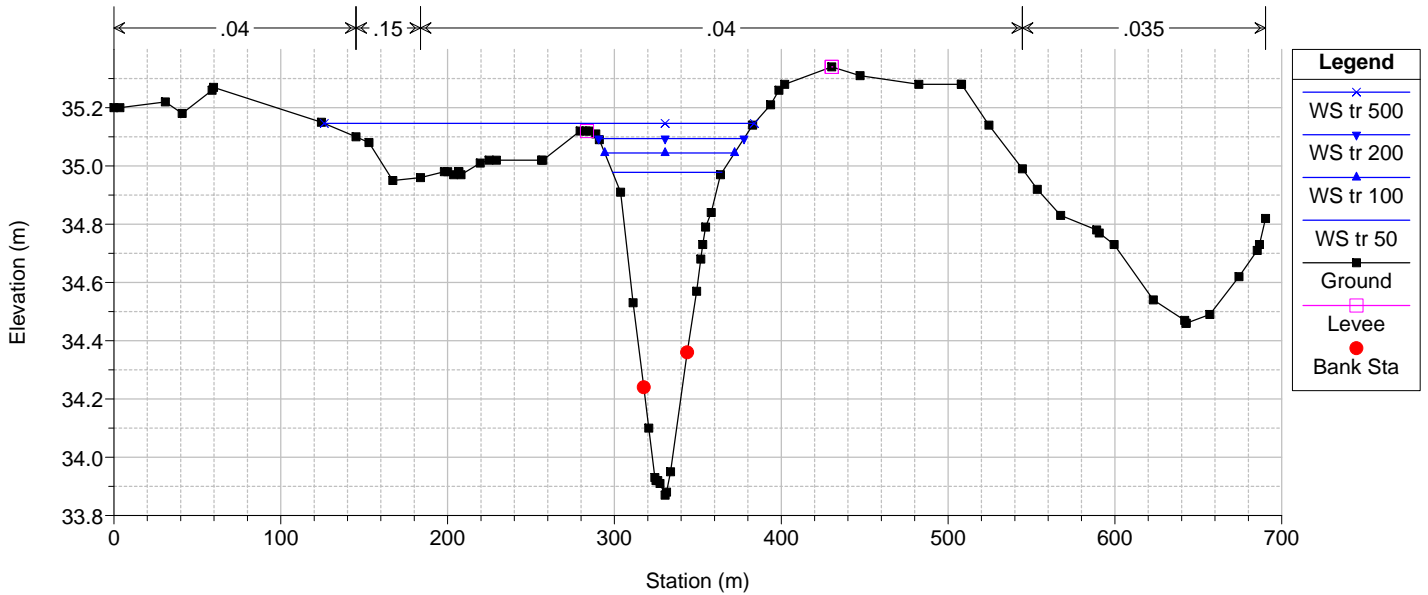
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urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

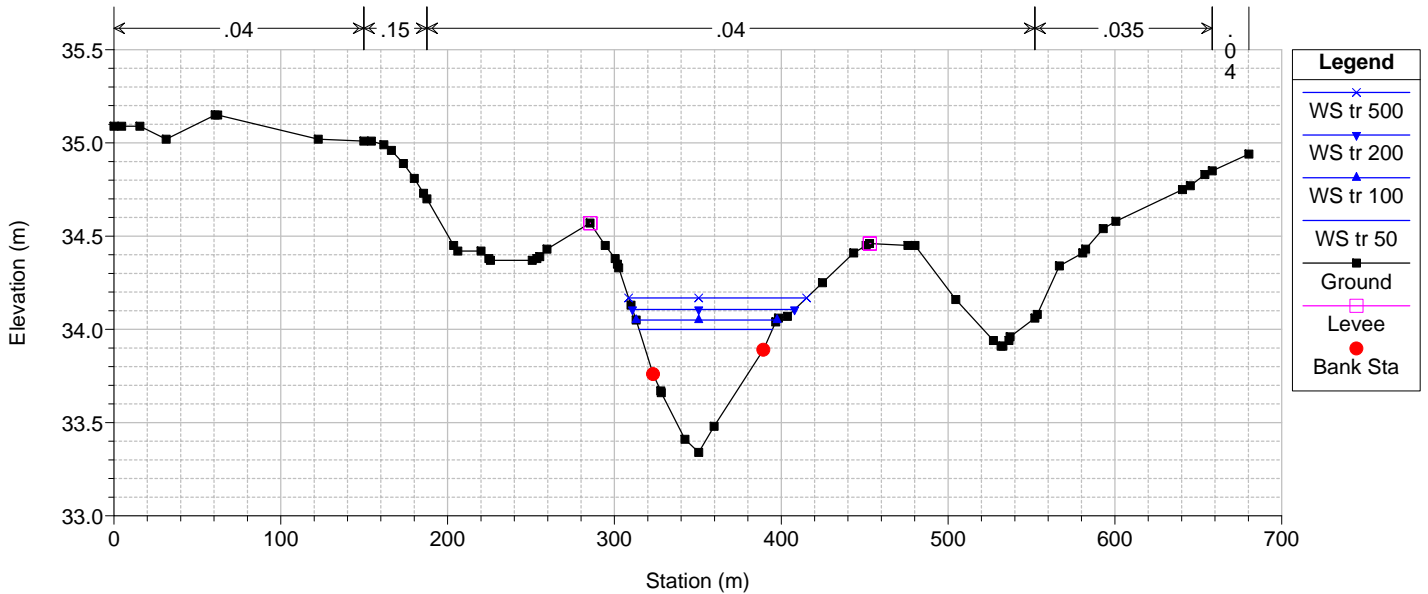
River = 090003_FIUME_743 Reach = Asta RS = 2726.11 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

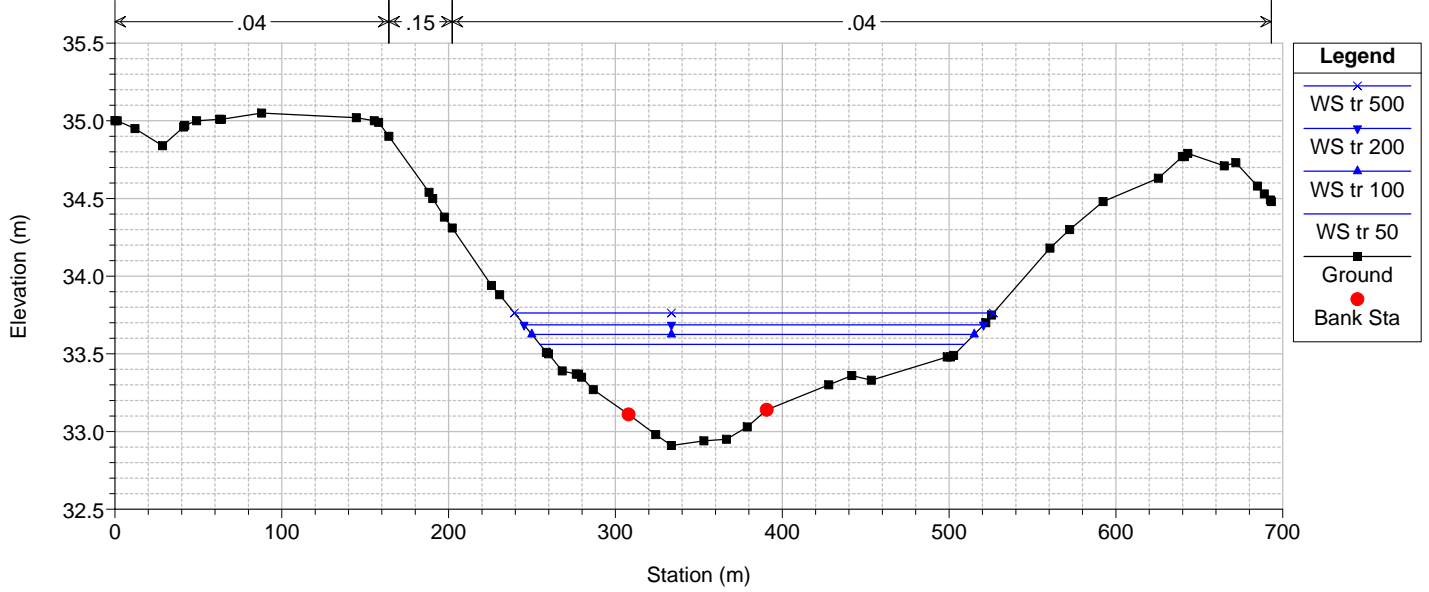
River = 090003_FIUME_743 Reach = Asta RS = 2634.18 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

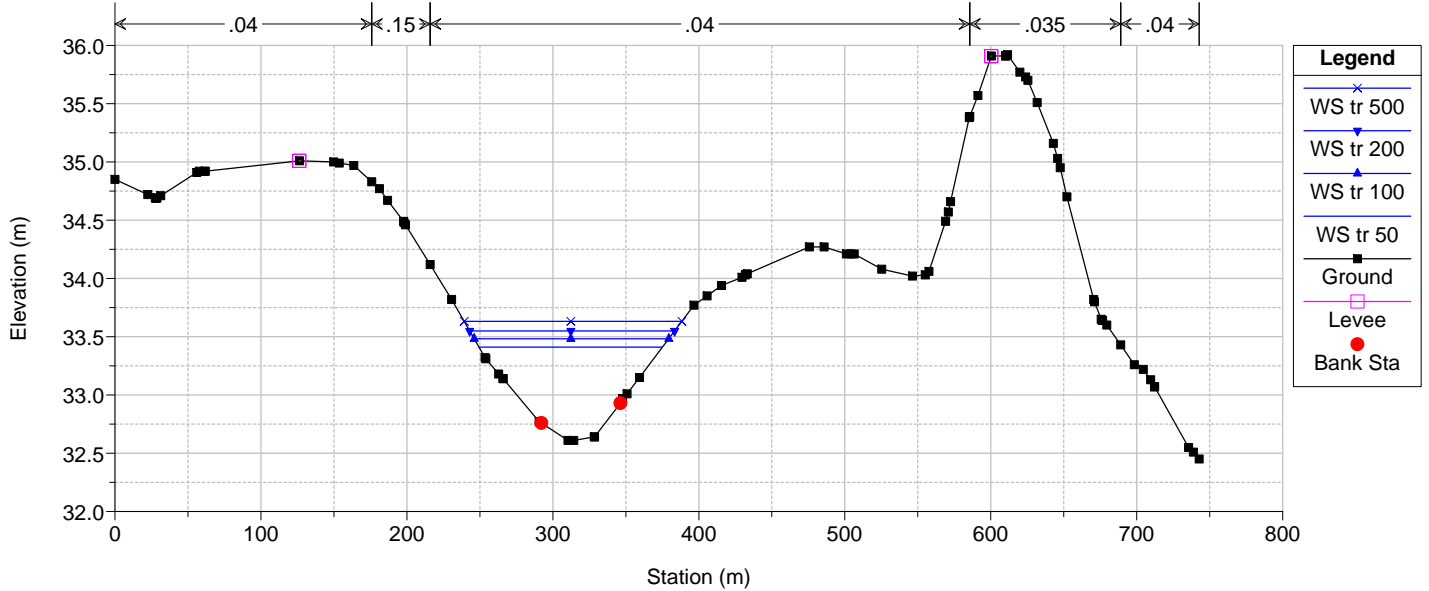
River = 090003_FIUME_743 Reach = Asta RS = 2551.568 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

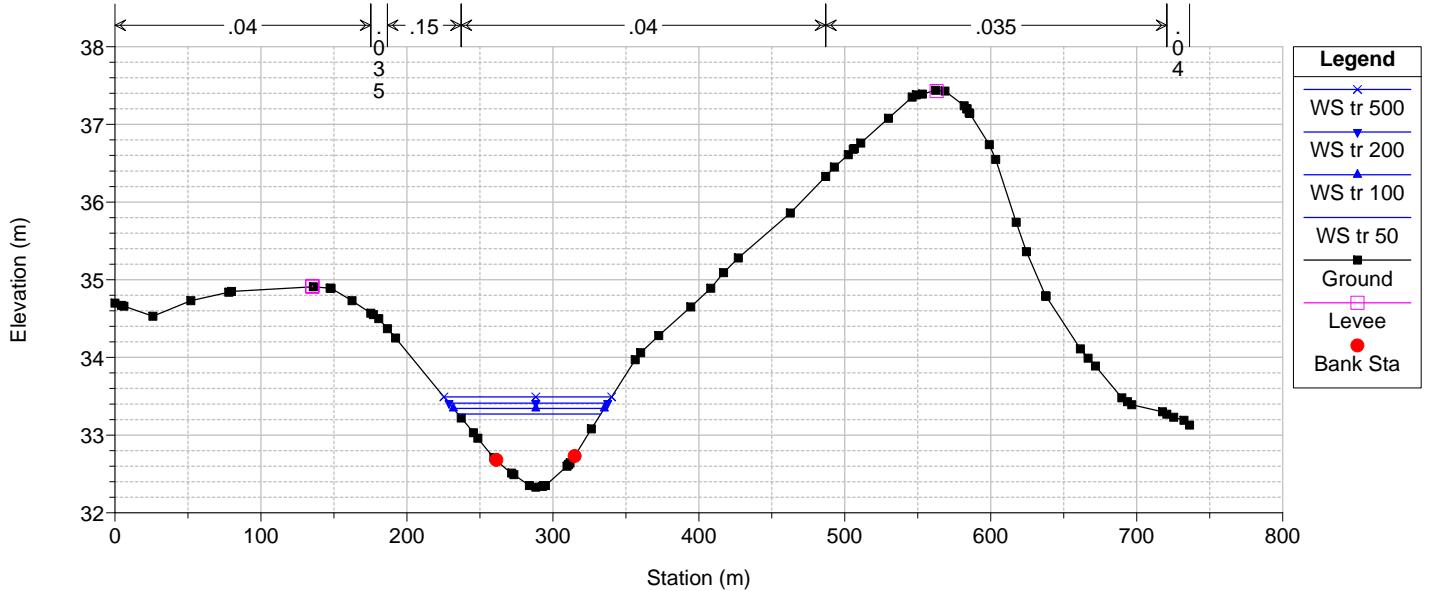
River = 090003_FIUME_743 Reach = Asta RS = 2503.028 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

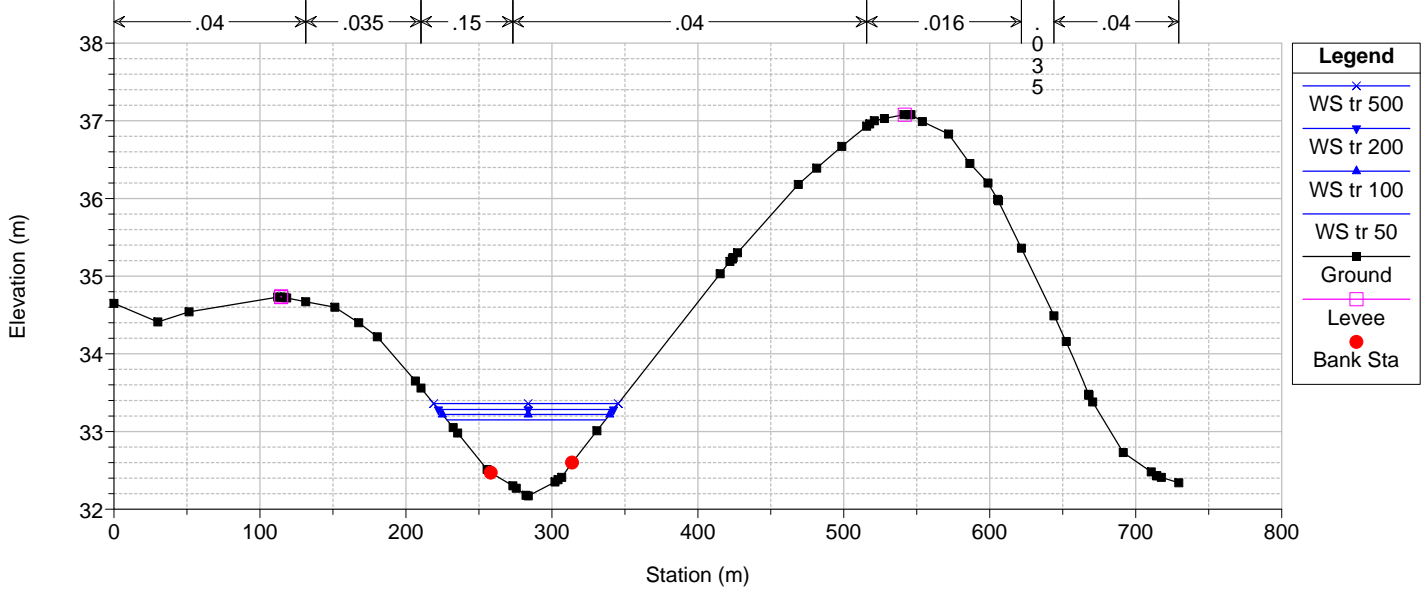
River = 090003_FIUME_743 Reach = Asta RS = 2457.485 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

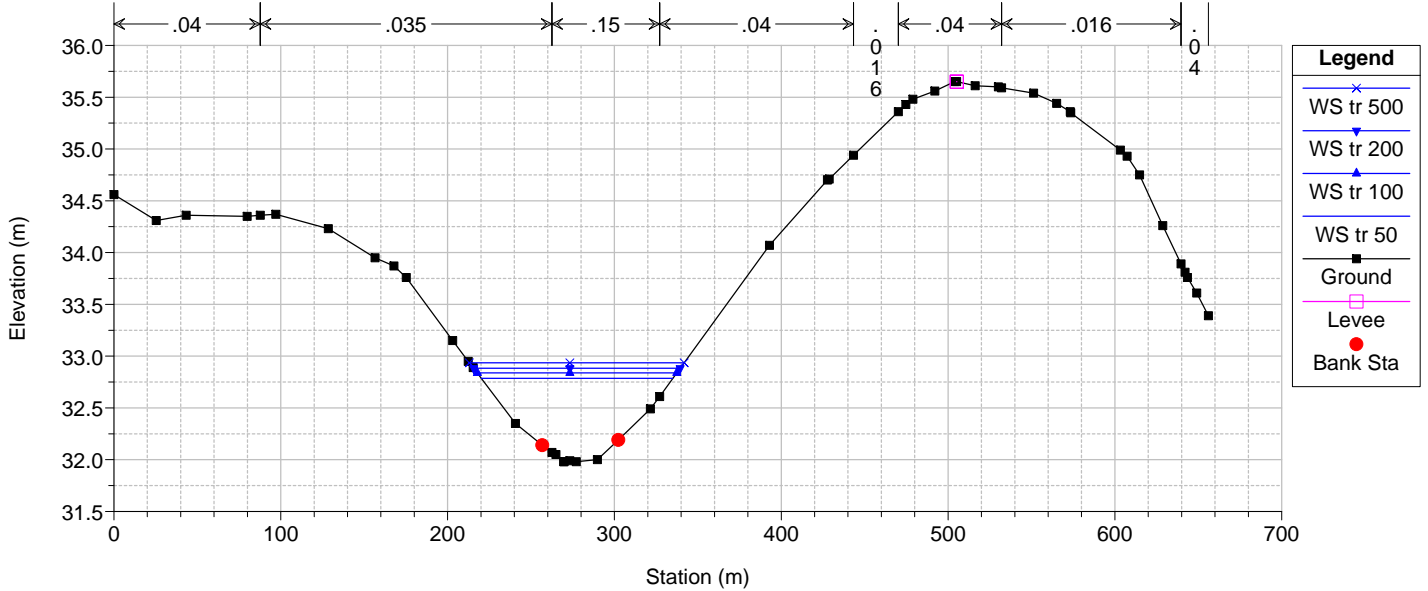
River = 090003_FIUME_743 Reach = Asta RS = 2418.079 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

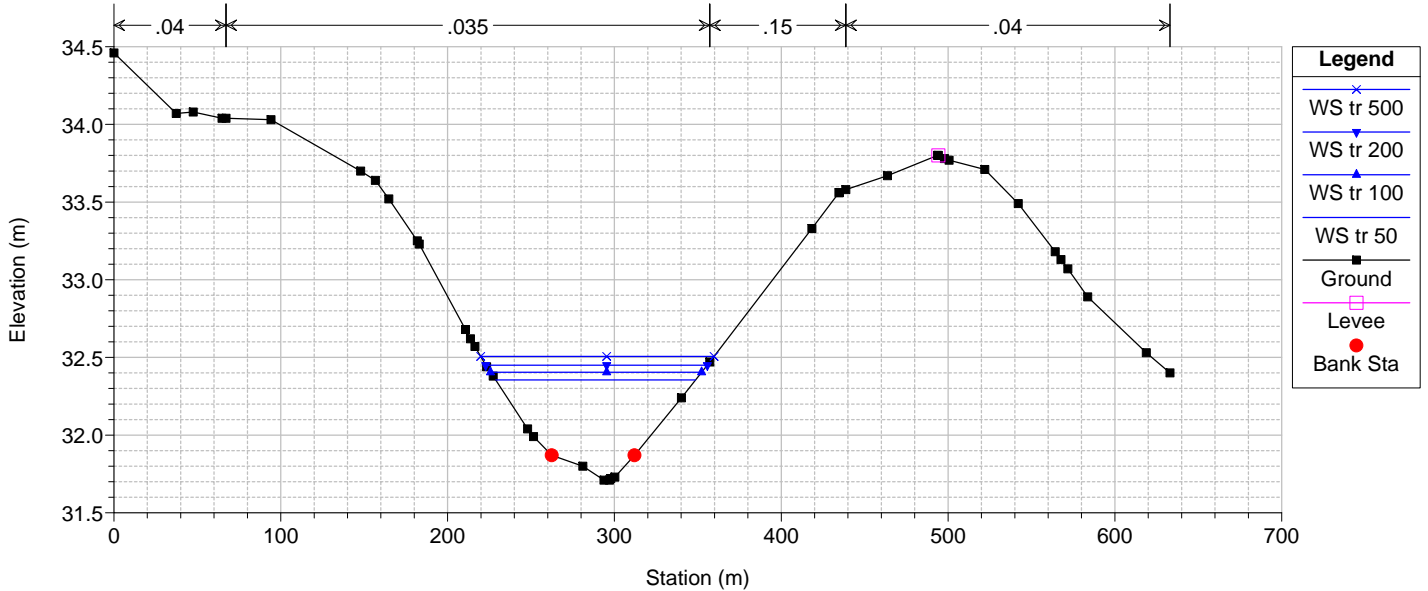
River = 090003_FIUME_743 Reach = Asta RS = 2362.845 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

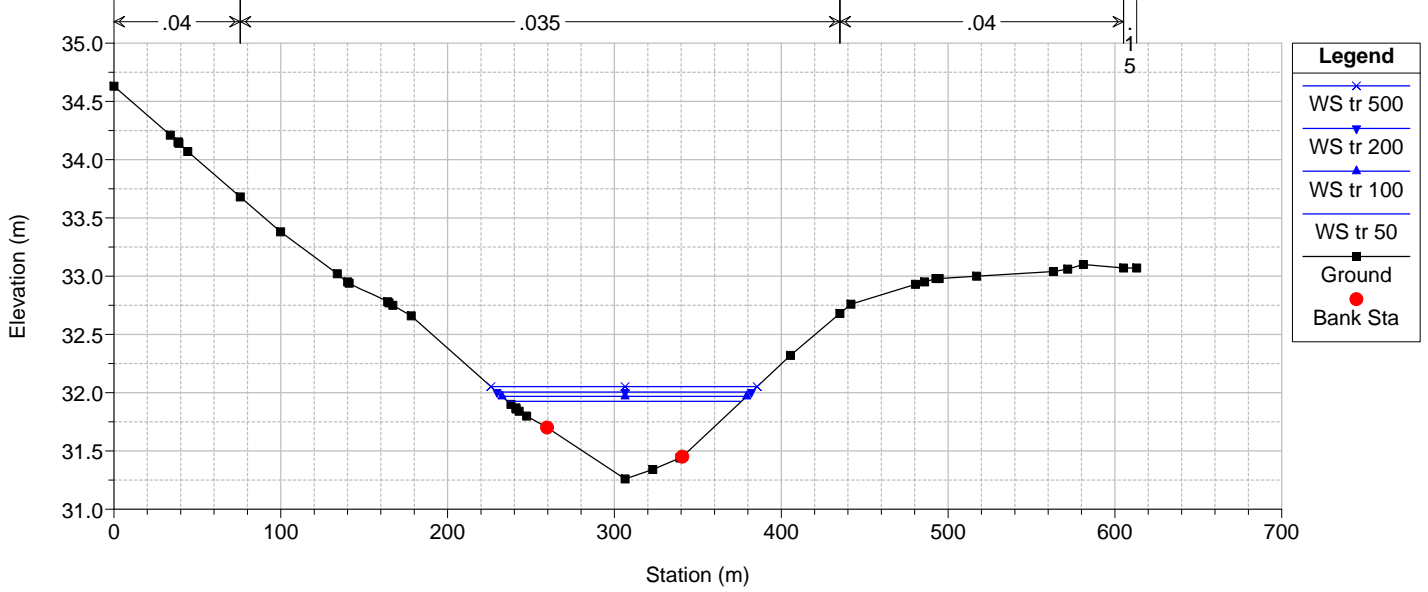
River = 090003_FIUME_743 Reach = Asta RS = 2311.334 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

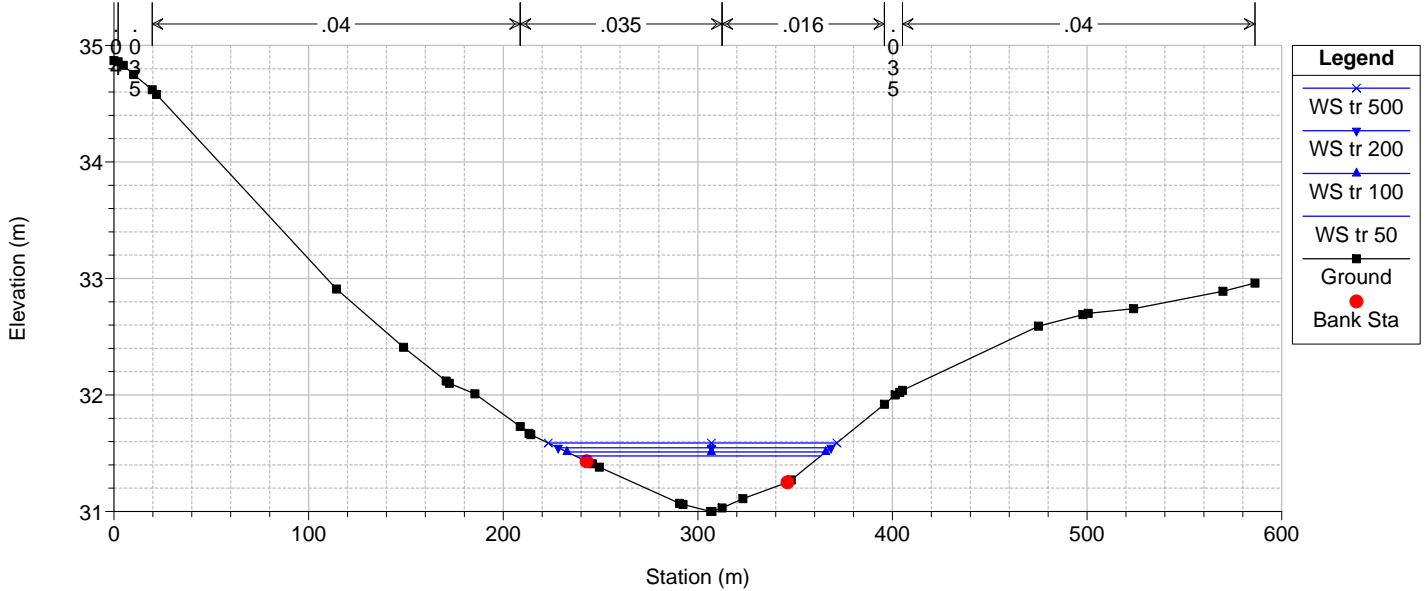
River = 090003_FIUME_743 Reach = Asta RS = 2219.61 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

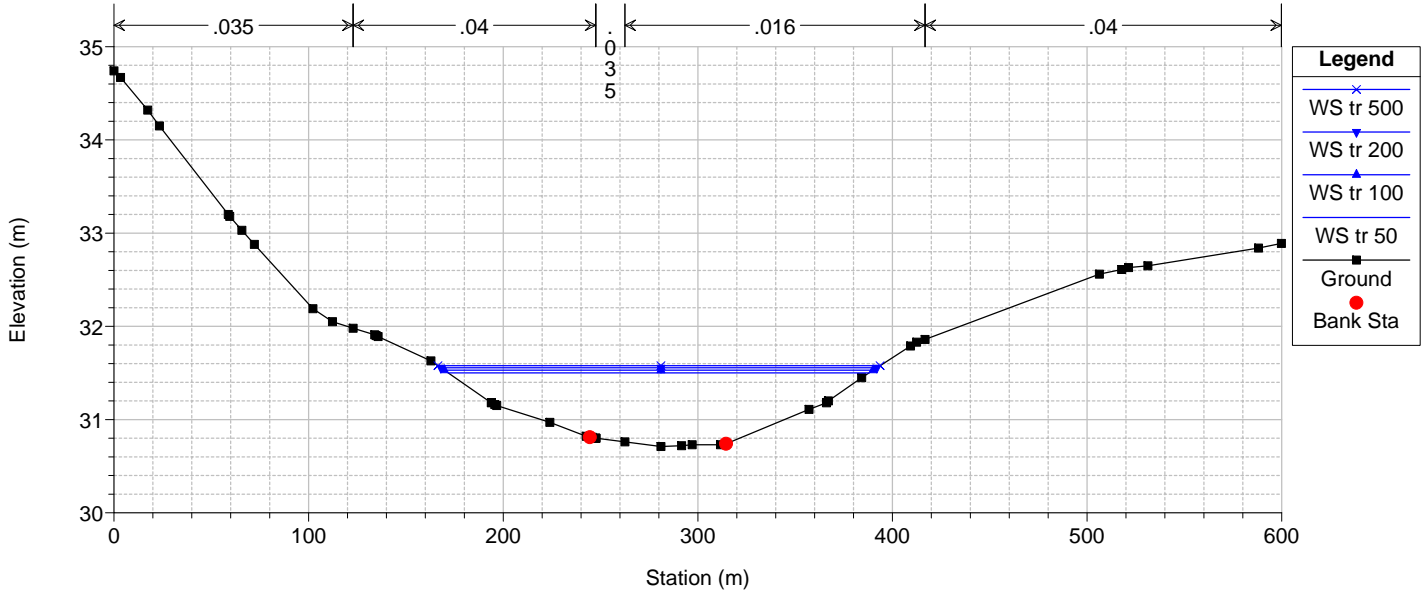
River = 090003_FIUME_743 Reach = Asta RS = 2155.33 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

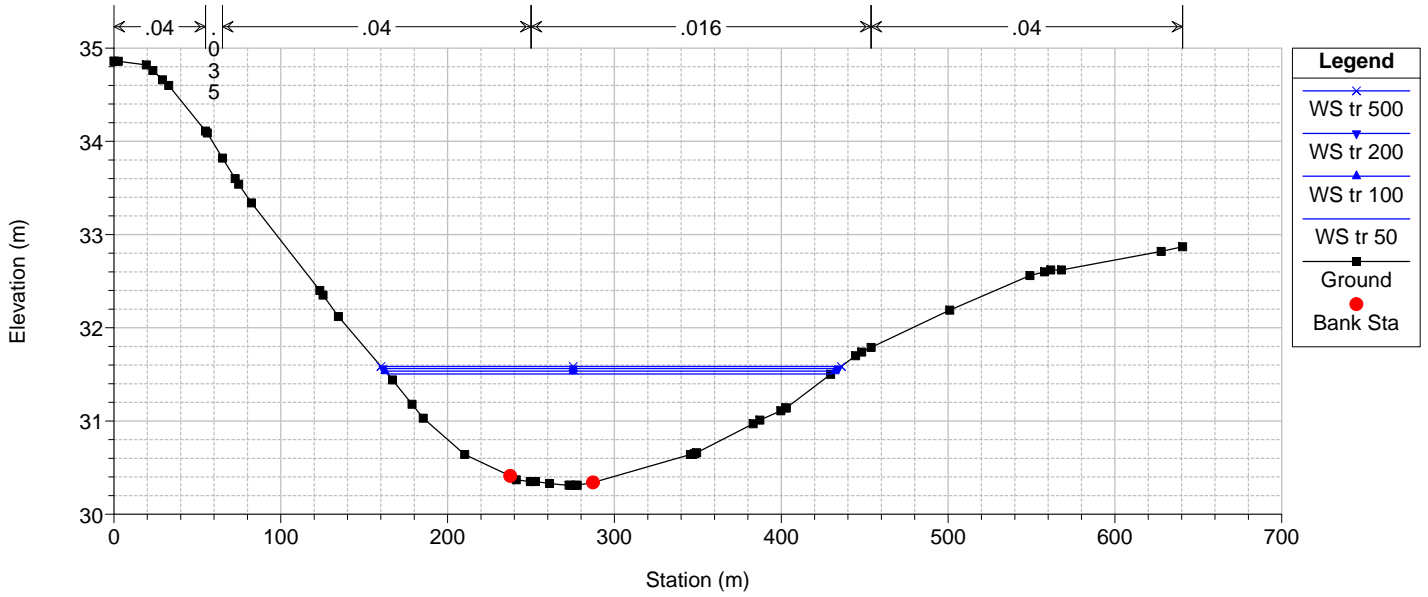
River = 090003_FIUME_743 Reach = Asta RS = 2069.327 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

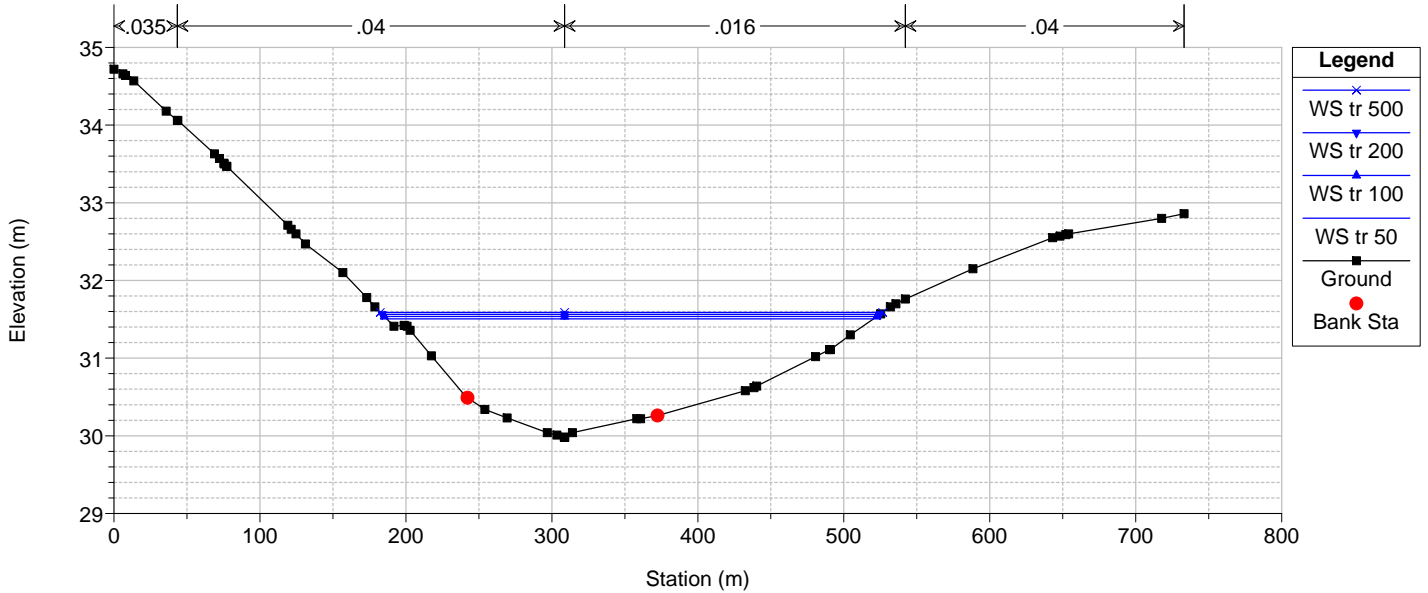
River = 090003_FIUME_743 Reach = Asta RS = 2002.043 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

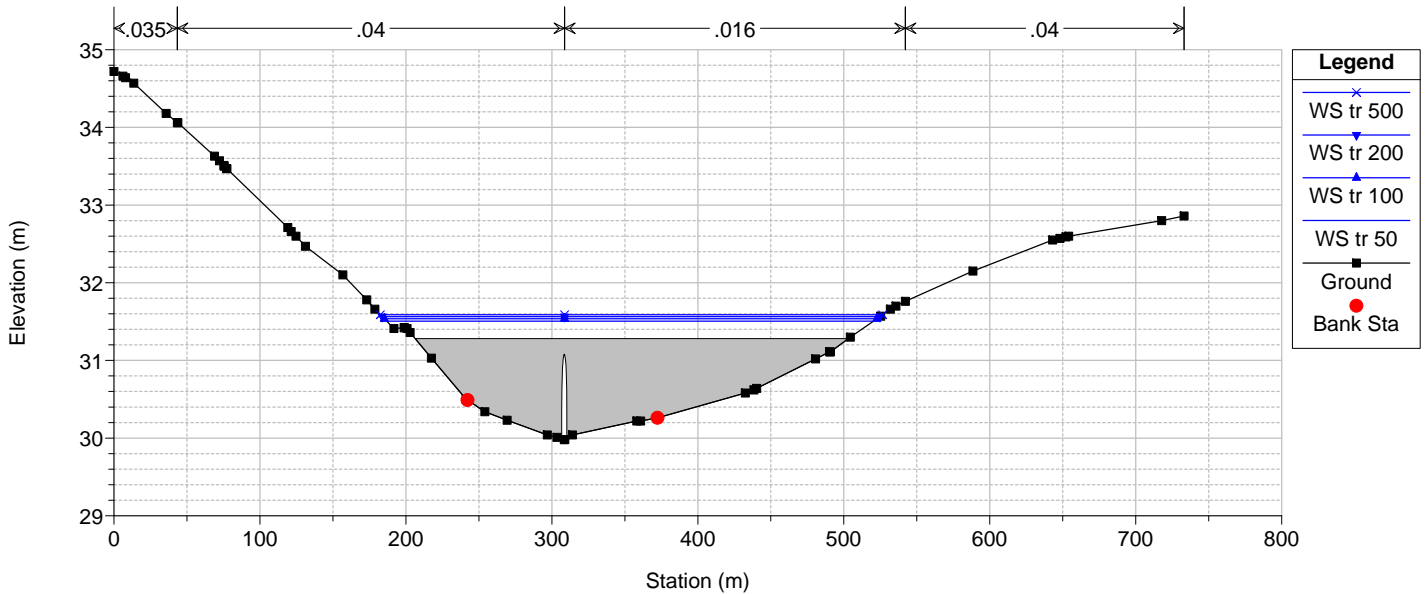
River = 090003_FIUME_743 Reach = Asta RS = 1942.498 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

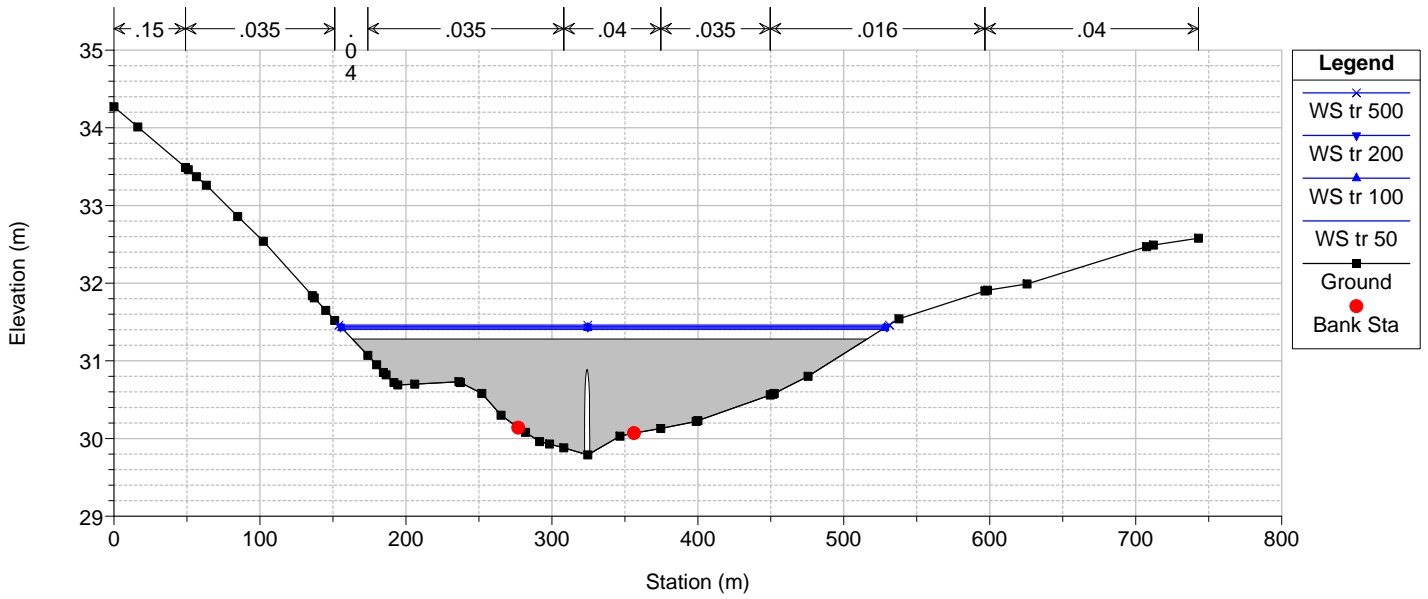
River = 090003_FIUME_743 Reach = Asta RS = 1912.371 Culv COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

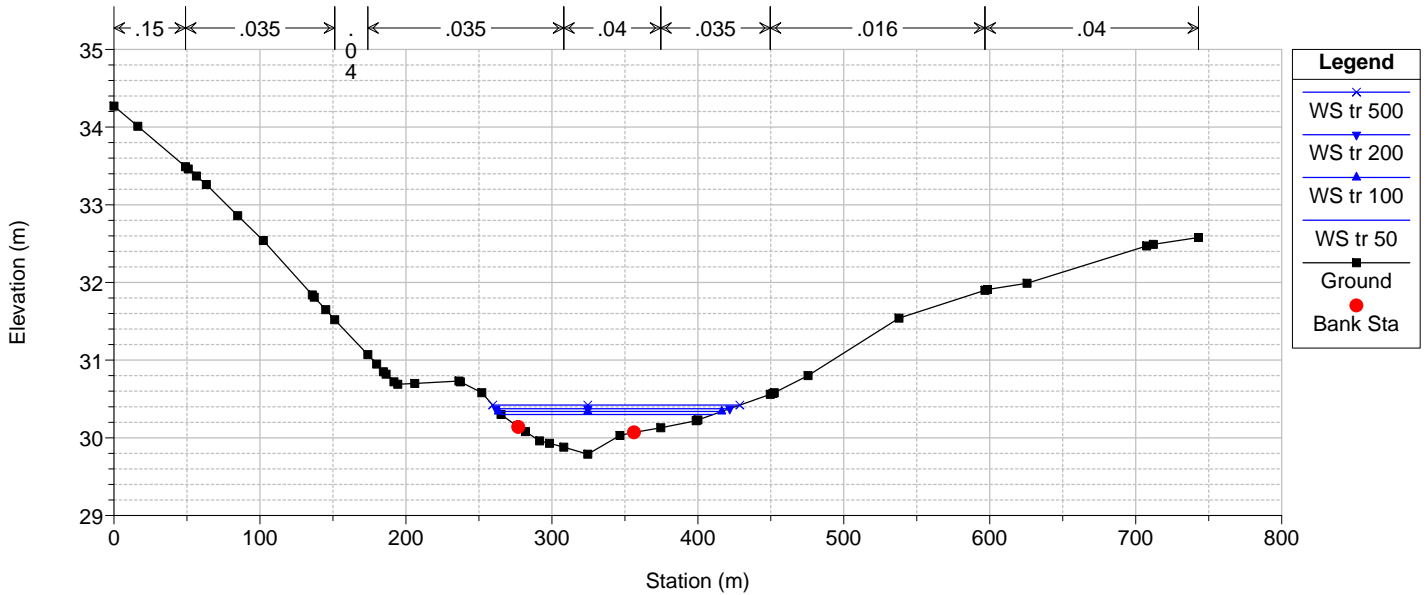
River = 090003_FIUME_743 Reach = Asta RS = 1912.371 Culv COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

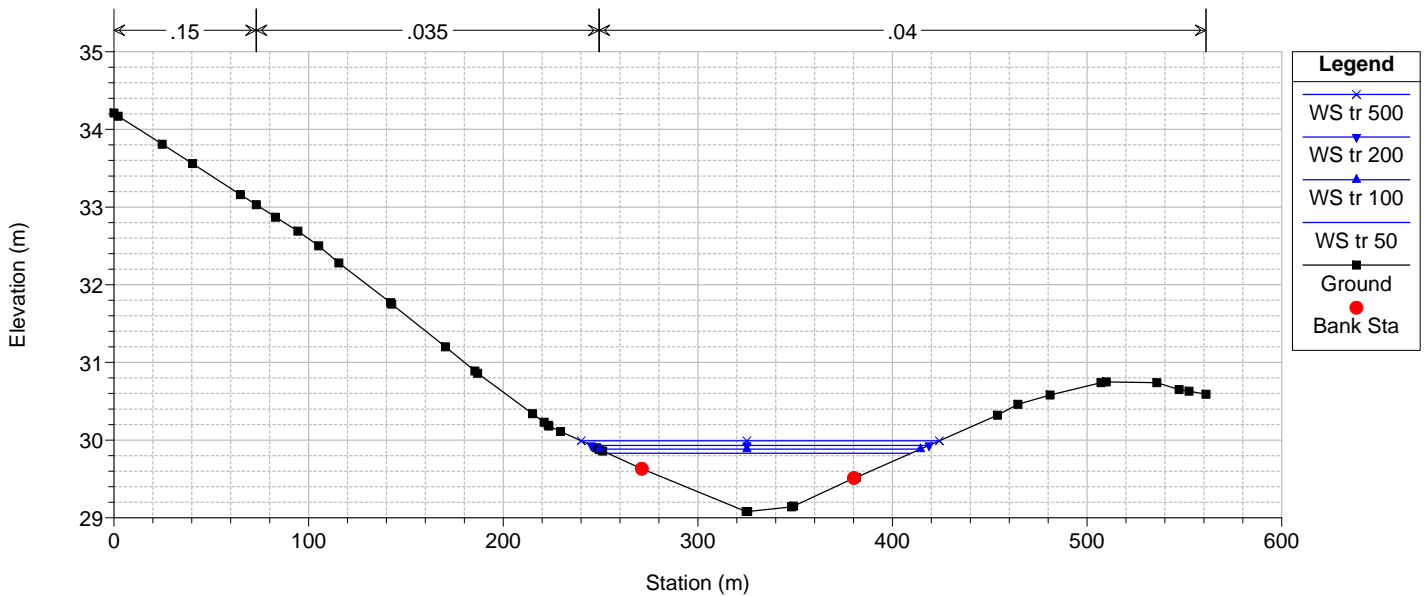
River = 090003_FIUME_743 Reach = Asta RS = 1882.45 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

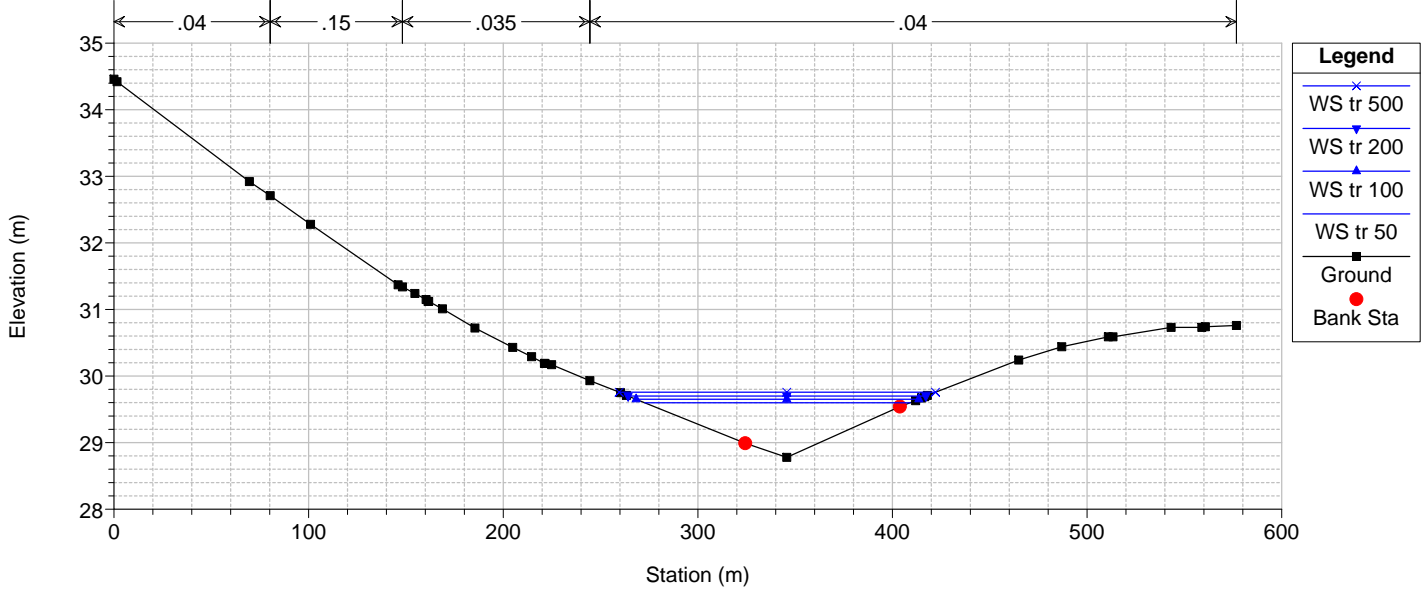
River = 090003_FIUME_743 Reach = Asta RS = 1792.5 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

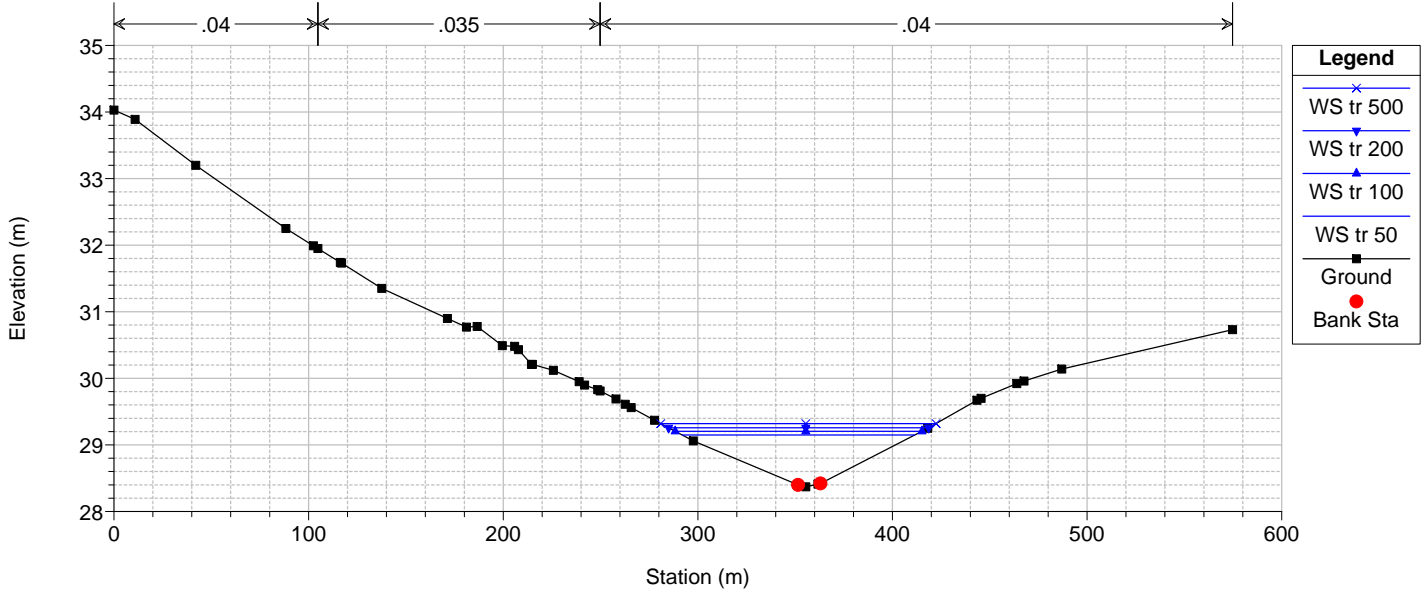
River = 090003_FIUME_743 Reach = Asta RS = 1732.273 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

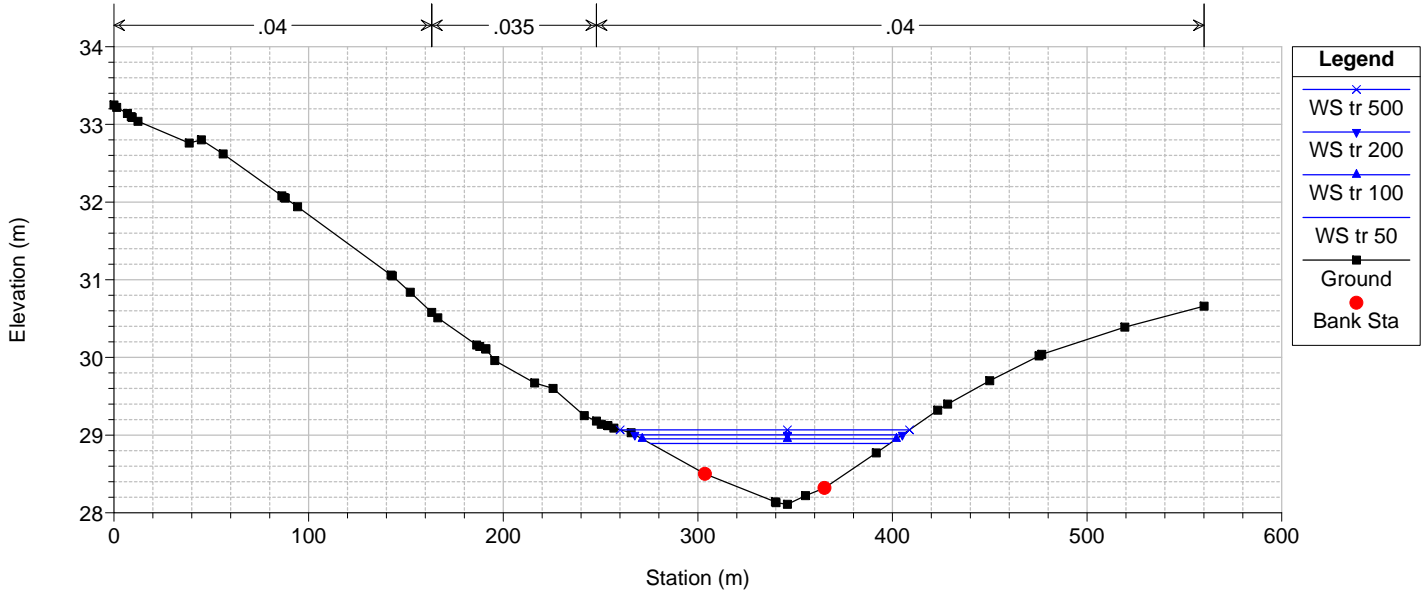
River = 090003_FIUME_743 Reach = Asta RS = 1650.039 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

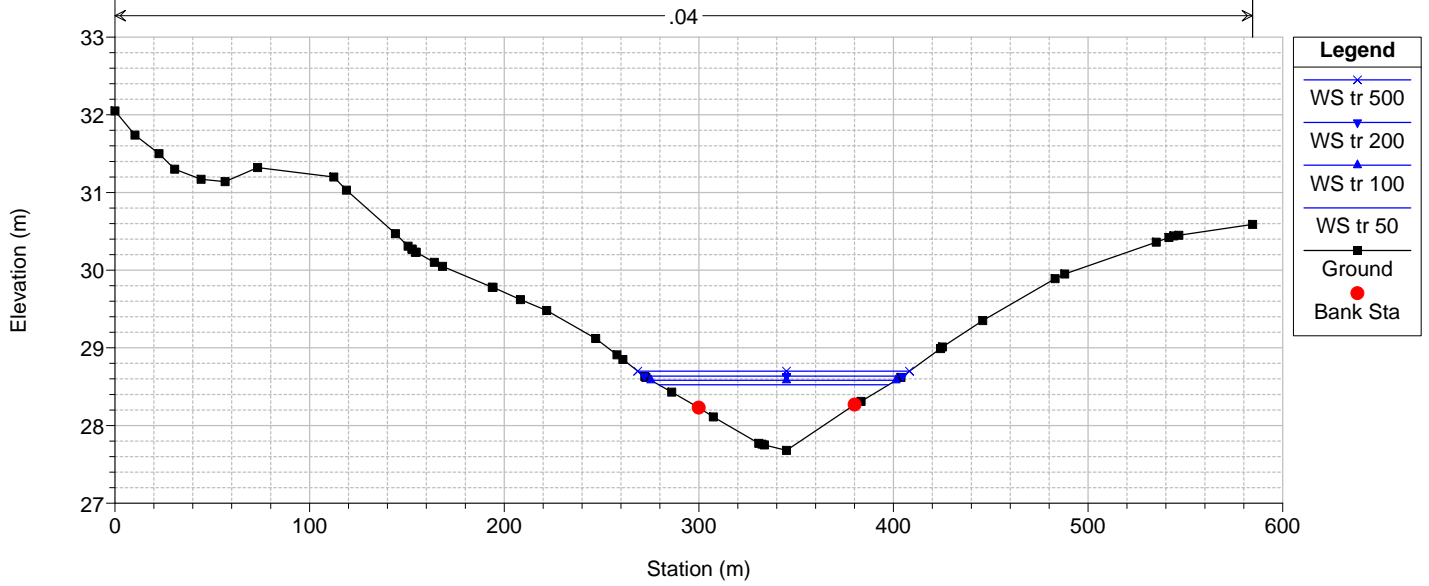
River = 090003_FIUME_743 Reach = Asta RS = 1597.917 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

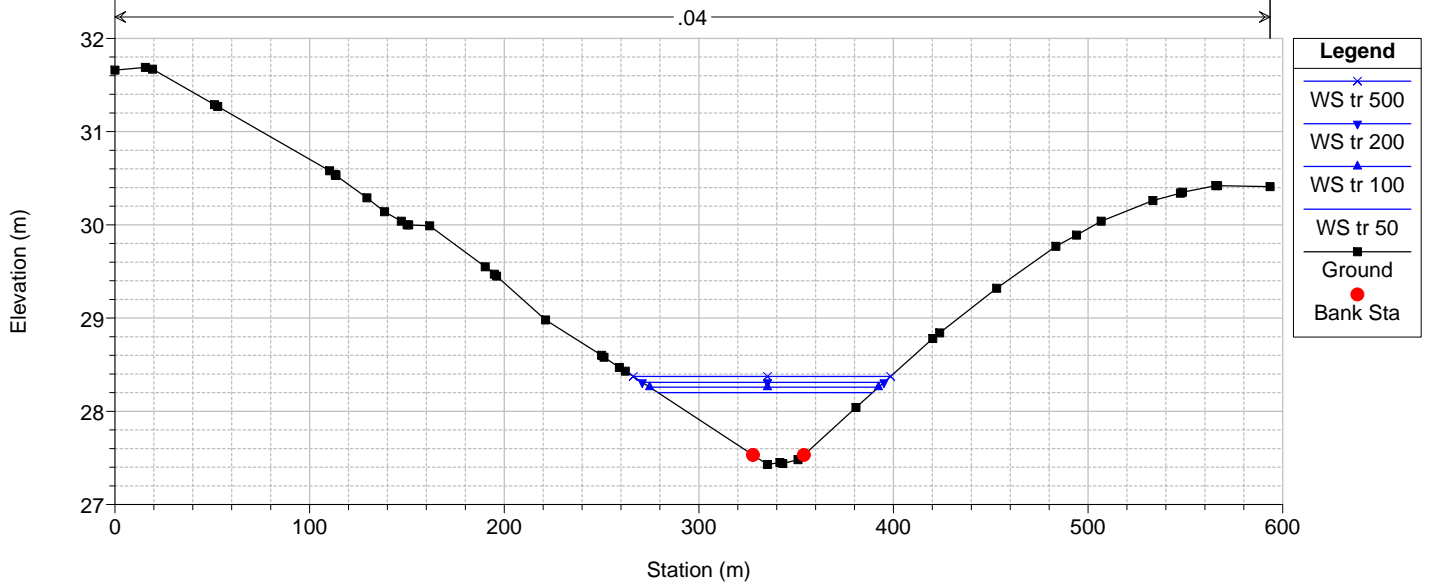
River = 090003_FIUME_743 Reach = Asta RS = 1509.779 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

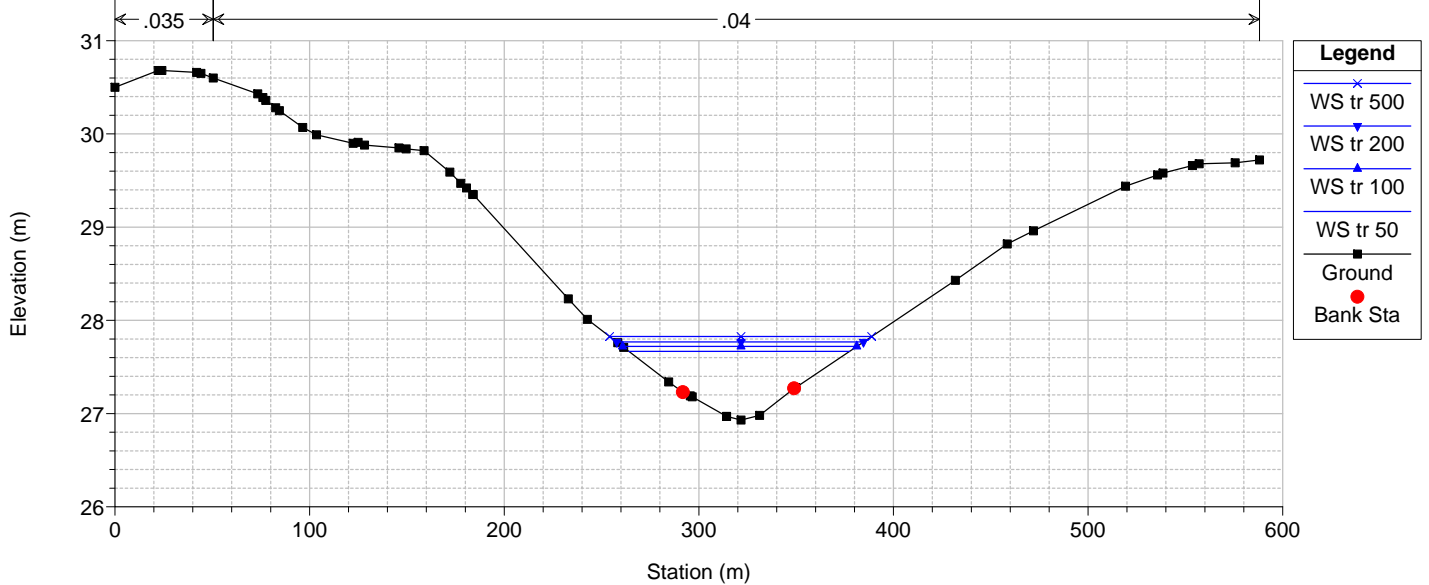
River = 090003_FIUME_743 Reach = Asta RS = 1448.047 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

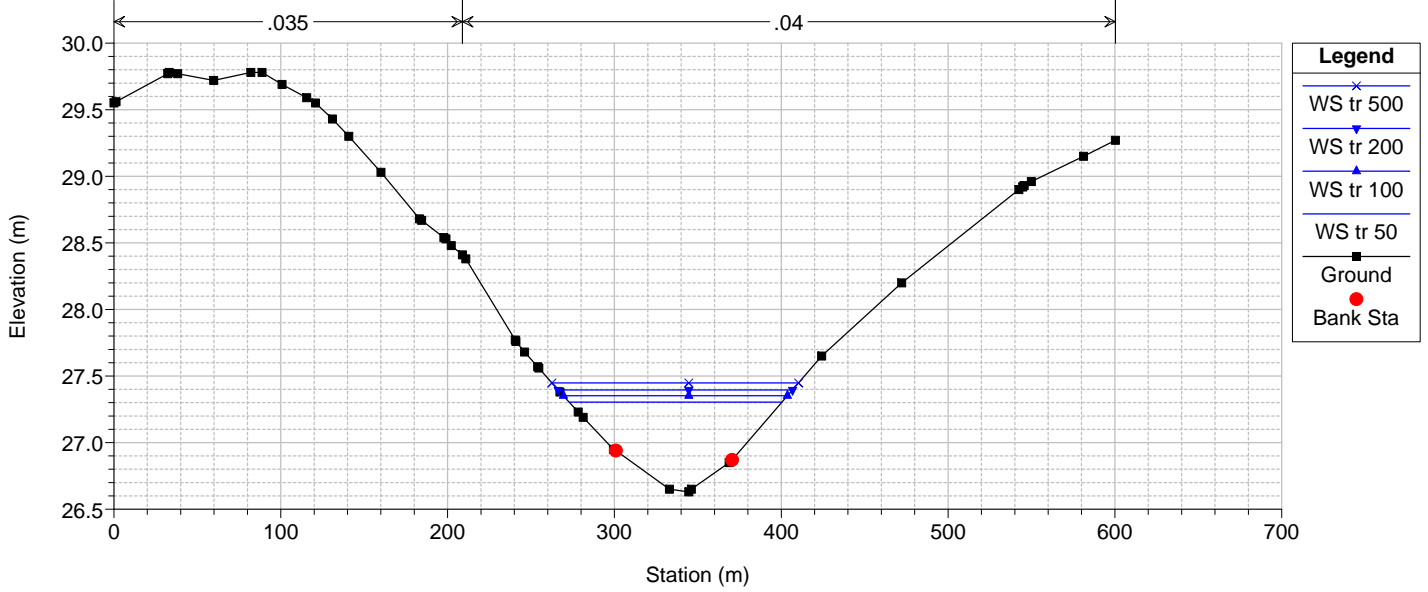
River = 090003_FIUME_743 Reach = Asta RS = 1357.417 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

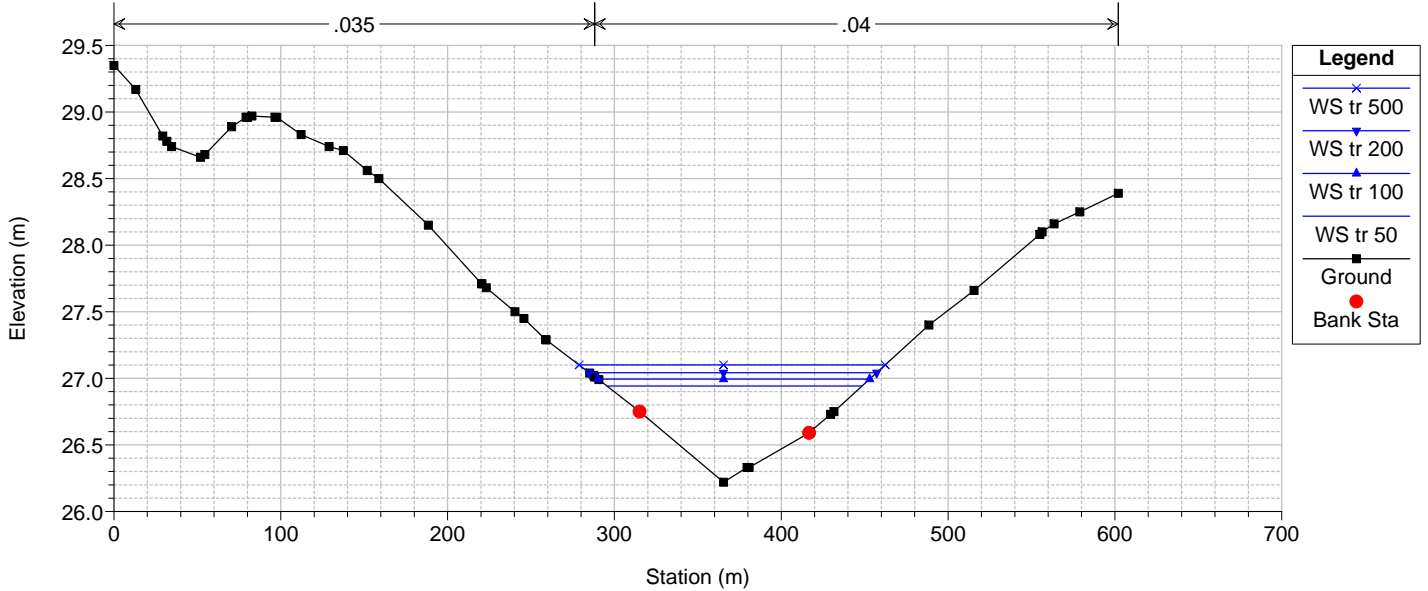
River = 090003_FIUME_743 Reach = Asta RS = 1292.359 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

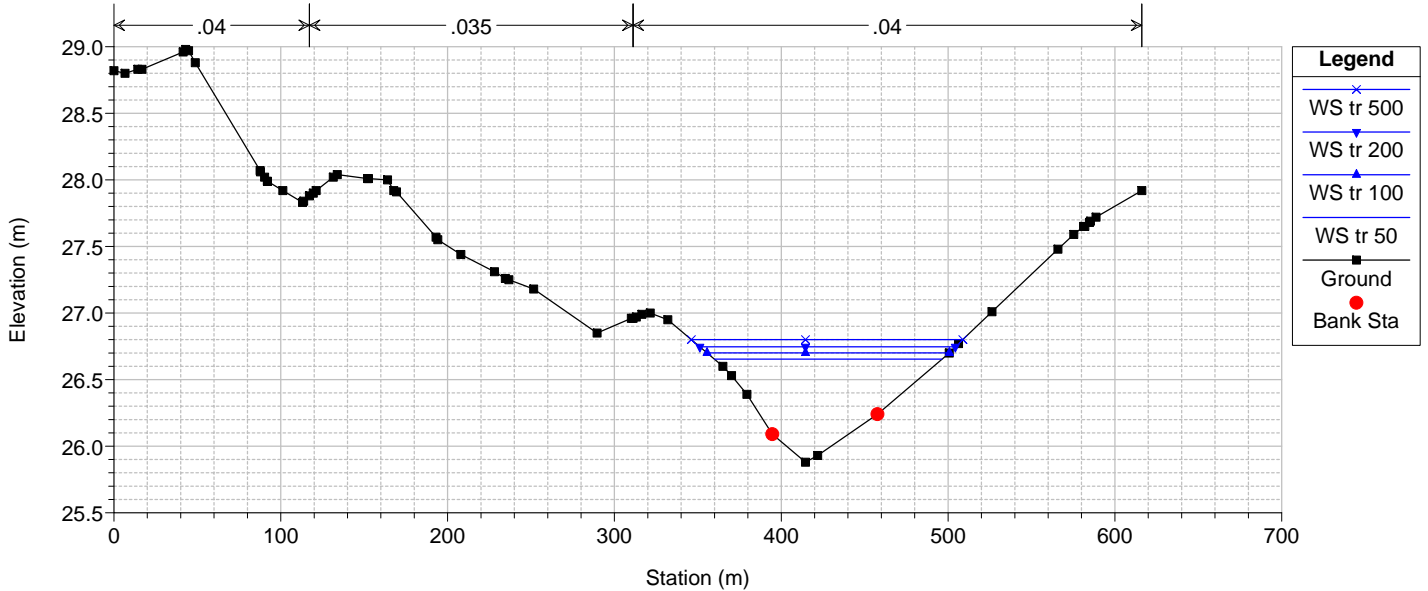
River = 090003_FIUME_743 Reach = Asta RS = 1214.755 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

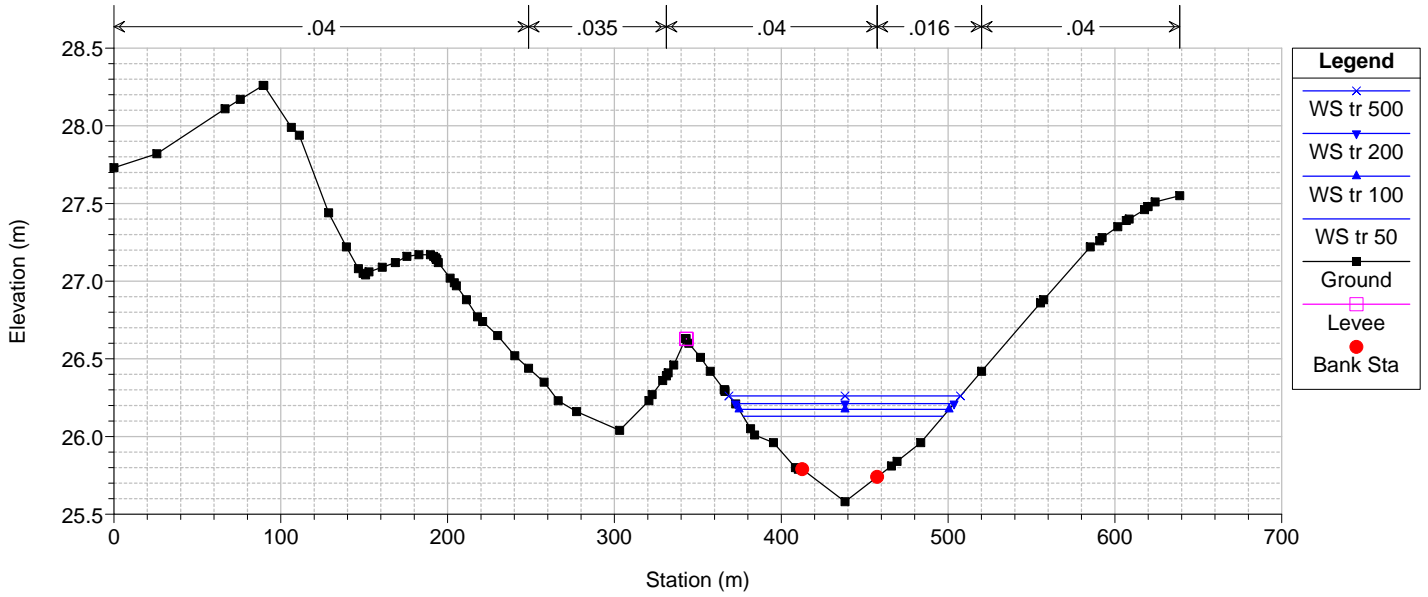
River = 090003_FIUME_743 Reach = Asta RS = 1148.48 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

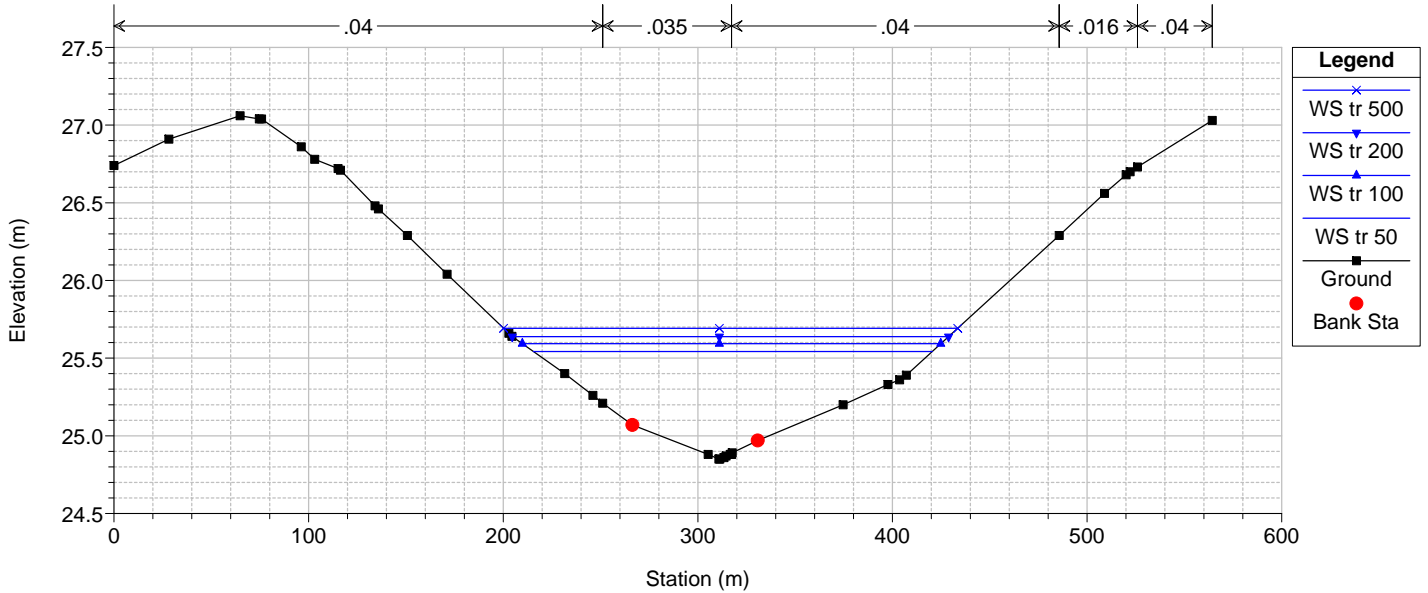
River = 090003_FIUME_743 Reach = Asta RS = 1080.733 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

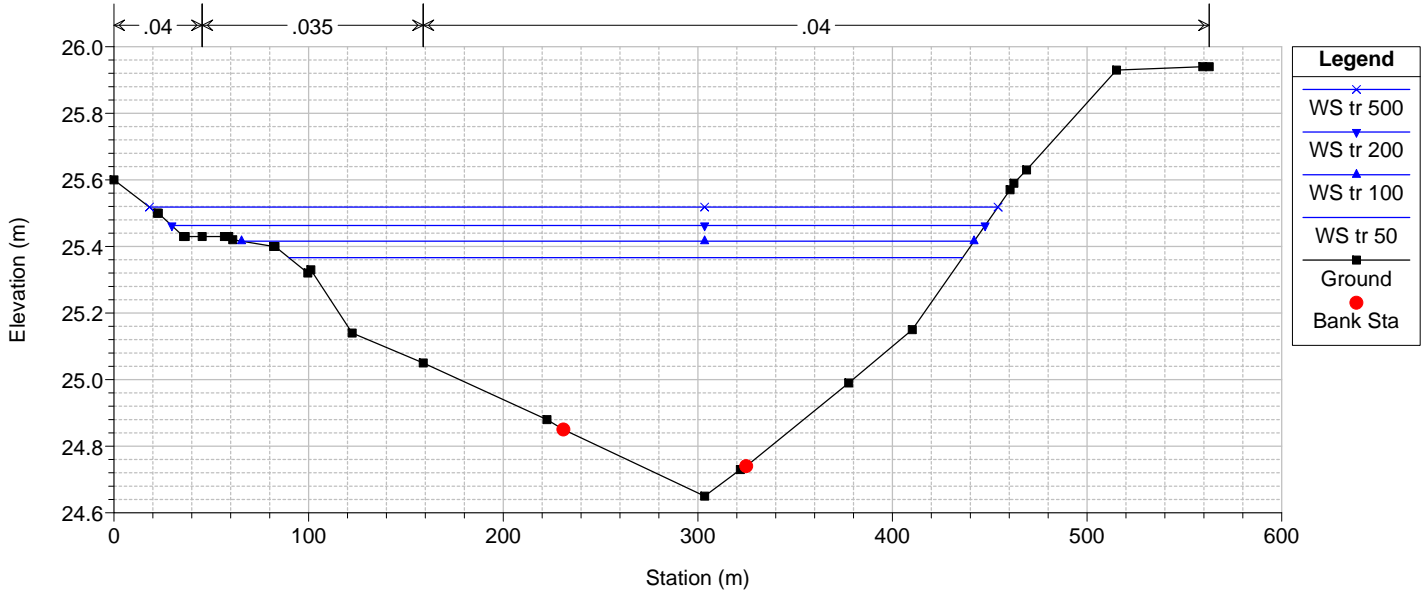
River = 090003_FIUME_743 Reach = Asta RS = 942.0653 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

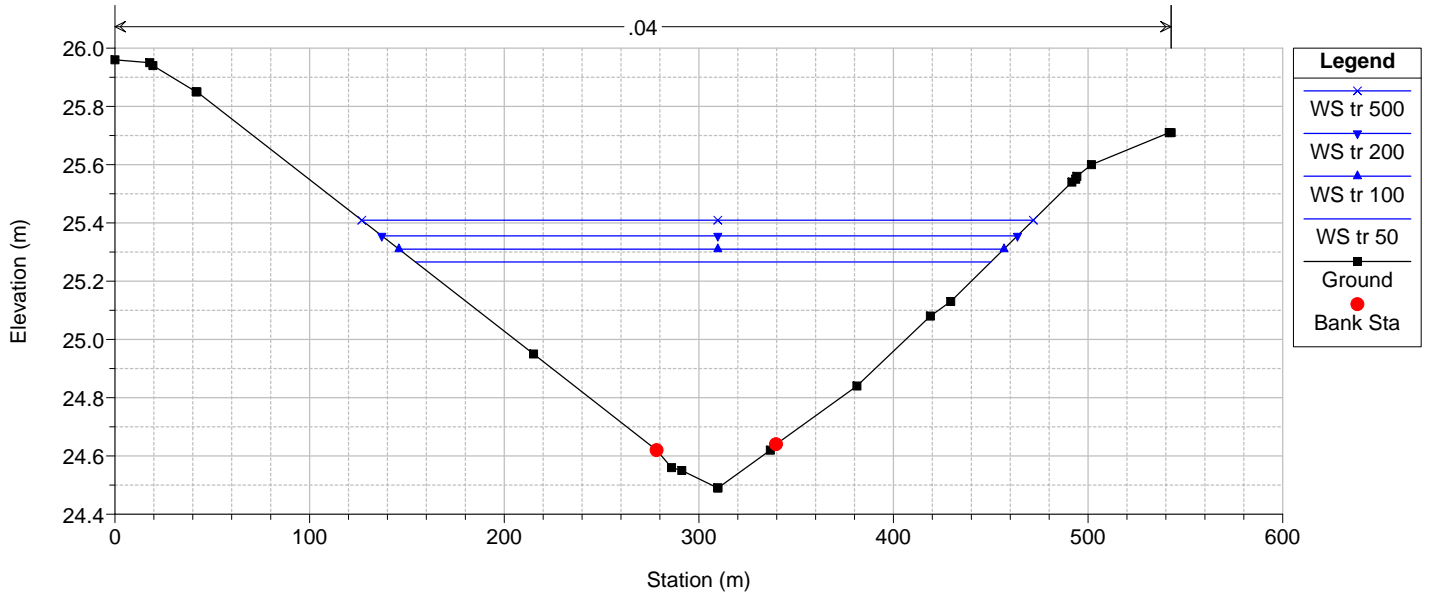
River = 090003_FIUME_743 Reach = Asta RS = 768.963 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

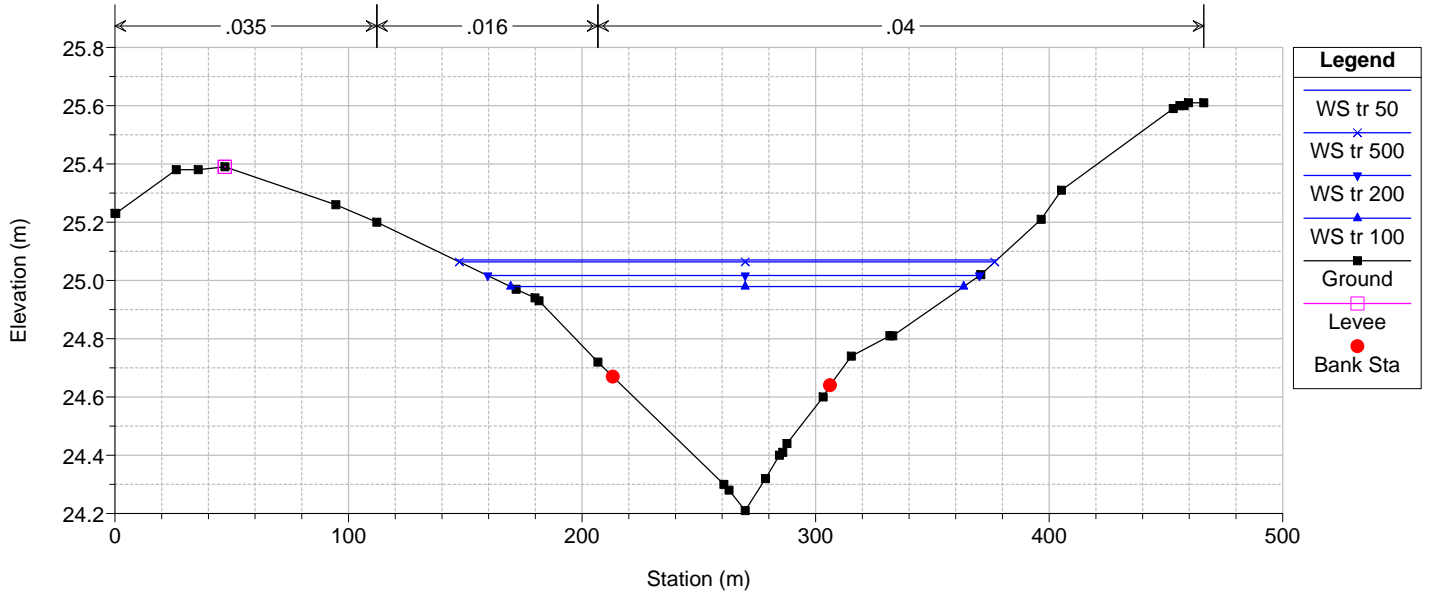
River = 090003_FIUME_743 Reach = Asta RS = 652.3372 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

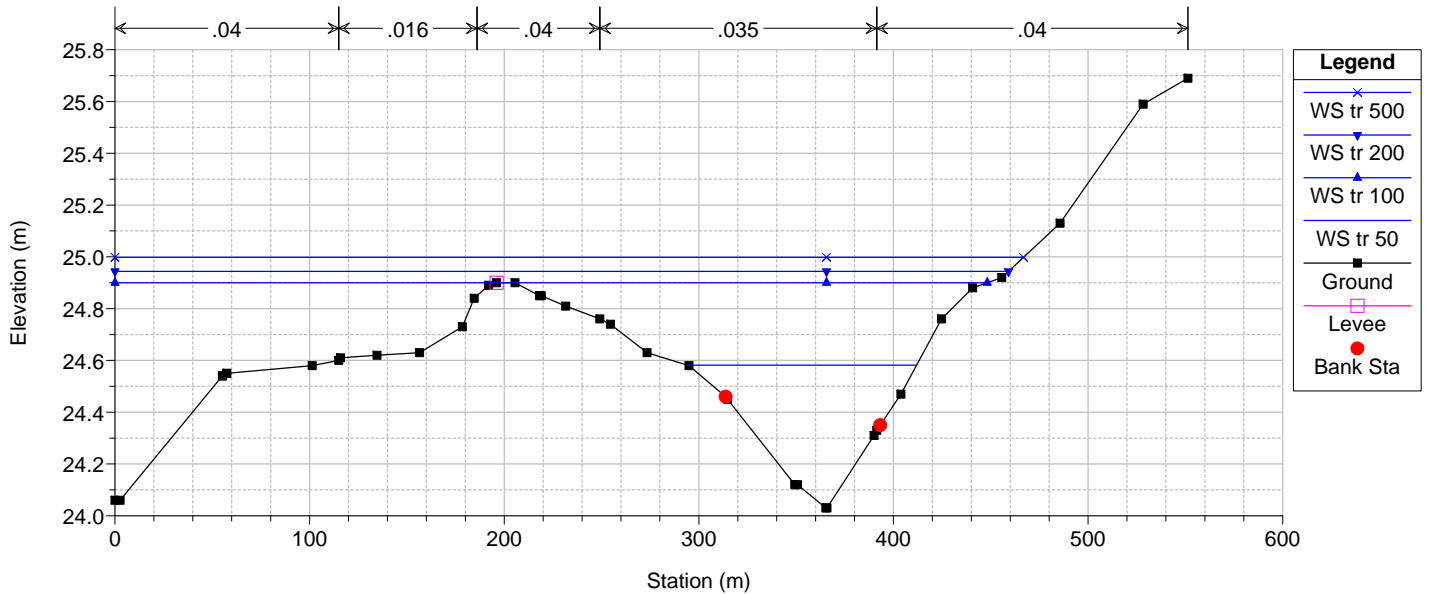
River = 090003_FIUME_743 Reach = Asta RS = 504.5828 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

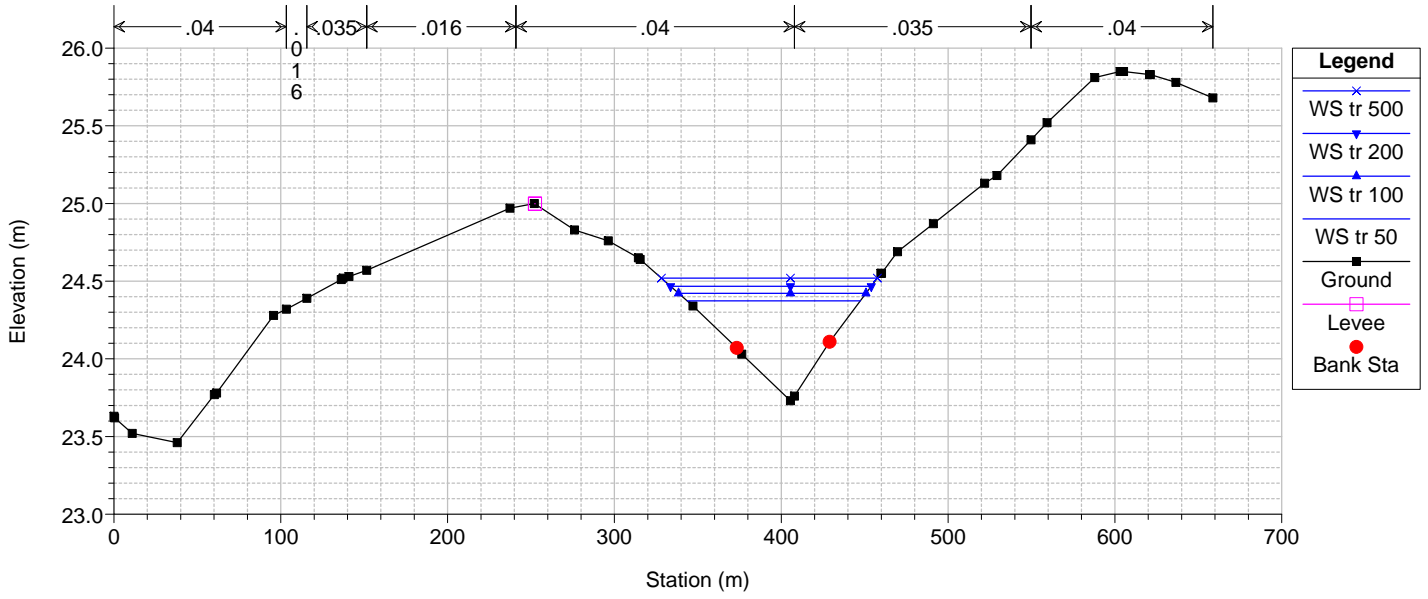
River = 090003_FIUME_743 Reach = Asta RS = 412.4449 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

River = 090003_FIUME_743 Reach = Asta RS = 224.0487 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
Asta	3172.377	tr 50	55.55	35.49	36.20	36.03	36.27	0.004002	1.25	56.69	190.73	0.49
Asta	3172.377	tr 100	65.93	35.49	36.25	36.08	36.32	0.003986	1.30	66.45	219.70	0.50
Asta	3172.377	tr 200	76.38	35.49	36.29	36.13	36.36	0.003942	1.35	75.95	231.03	0.50
Asta	3172.377	tr 500	90.28	35.49	36.34	36.21	36.41	0.003921	1.40	87.51	242.96	0.50
Asta	3099.786	tr 50	55.55	35.27	35.92	35.76	35.97	0.004122	1.04	60.53	171.21	0.46
Asta	3099.786	tr 100	65.93	35.27	35.96	35.80	36.01	0.004305	1.12	67.36	178.49	0.48
Asta	3099.786	tr 200	76.38	35.27	35.99	35.84	36.05	0.004477	1.19	73.78	185.08	0.49
Asta	3099.786	tr 500	90.28	35.27	36.04	35.88	36.11	0.004514	1.25	82.64	194.05	0.50
Asta	2958.043	tr 50	55.55	35.01	35.63	35.36	35.64	0.001398	0.65	114.07	373.39	0.27
Asta	2958.043	tr 100	65.93	35.01	35.67	35.40	35.69	0.001345	0.68	131.32	379.26	0.27
Asta	2958.043	tr 200	76.38	35.01	35.72	35.43	35.73	0.001293	0.69	148.24	386.82	0.27
Asta	2958.043	tr 500	90.28	35.01	35.76	35.47	35.78	0.001304	0.73	166.65	396.16	0.27
Asta	2854.964	tr 50	55.55	34.50	35.47	35.26	35.49	0.001480	0.82	110.58	398.03	0.30
Asta	2854.964	tr 100	65.93	34.50	35.54	35.29	35.55	0.001234	0.79	136.67	409.34	0.27
Asta	2854.964	tr 200	76.38	34.50	35.60	35.32	35.61	0.001075	0.77	160.86	419.55	0.26
Asta	2854.964	tr 500	90.28	34.50	35.64	35.36	35.66	0.001107	0.81	179.78	427.37	0.26
Asta	2726.11	tr 50	55.55	33.87	34.98	34.79	35.13	0.006272	1.89	35.57	65.58	0.62
Asta	2726.11	tr 100	65.93	33.87	35.04	34.89	35.23	0.006748	2.05	40.37	77.88	0.66
Asta	2726.11	tr 200	76.38	33.87	35.09	34.95	35.30	0.007396	2.22	44.43	87.10	0.69
Asta	2726.11	tr 500	90.28	33.87	35.15	35.07	35.34	0.007319	2.28	67.82	257.65	0.69
Asta	2634.18	tr 50	55.55	33.34	34.00	34.00	34.19	0.019342	1.96	29.20	79.97	0.96
Asta	2634.18	tr 100	65.93	33.34	34.05	34.05	34.26	0.018388	2.06	33.33	84.54	0.96
Asta	2634.18	tr 200	76.38	33.34	34.11	34.11	34.32	0.016524	2.10	38.51	97.14	0.92
Asta	2634.18	tr 500	90.28	33.34	34.17	34.17	34.40	0.015336	2.18	44.84	106.69	0.91
Asta	2551.568	tr 50	55.55	32.91	33.56	33.34	33.59	0.002205	0.81	86.43	254.42	0.34
Asta	2551.568	tr 100	65.93	32.91	33.63	33.40	33.65	0.001900	0.81	103.13	265.19	0.32
Asta	2551.568	tr 200	76.38	32.91	33.69	33.43	33.71	0.001678	0.81	119.68	275.44	0.31
Asta	2551.568	tr 500	90.28	32.91	33.76	33.46	33.79	0.001461	0.81	141.25	287.05	0.29
Asta	2503.028	tr 50	55.55	32.61	33.41	33.15	33.46	0.002973	1.09	60.24	125.71	0.41
Asta	2503.028	tr 100	65.93	32.61	33.48	33.20	33.54	0.002824	1.13	69.55	133.33	0.41
Asta	2503.028	tr 200	76.38	32.61	33.55	33.25	33.61	0.002705	1.17	78.70	140.42	0.40
Asta	2503.028	tr 500	90.28	32.61	33.63	33.30	33.69	0.002575	1.21	90.62	149.14	0.40
Asta	2457.485	tr 50	55.55	32.33	33.27	32.96	33.33	0.002768	1.13	55.33	97.89	0.40
Asta	2457.485	tr 100	65.93	32.33	33.34	33.02	33.41	0.002756	1.19	62.61	103.49	0.41
Asta	2457.485	tr 200	76.38	32.33	33.41	33.07	33.48	0.002757	1.25	69.63	108.62	0.41
Asta	2457.485	tr 500	90.28	32.33	33.49	33.14	33.57	0.002762	1.33	78.67	114.88	0.42
Asta	2418.079	tr 50	55.55	32.17	33.15	32.80	33.21	0.003589	1.08	62.53	108.70	0.38
Asta	2418.079	tr 100	65.93	32.17	33.22	32.86	33.28	0.003730	1.16	70.27	114.61	0.39
Asta	2418.079	tr 200	76.38	32.17	33.28	32.91	33.35	0.003860	1.24	77.68	119.99	0.40
Asta	2418.079	tr 500	90.28	32.17	33.36	32.97	33.44	0.004016	1.32	87.06	126.47	0.42
Asta	2362.845	tr 50	55.55	31.98	32.79	32.56	32.86	0.013270	0.86	57.75	114.77	0.32
Asta	2362.845	tr 100	65.93	31.98	32.84	32.62	32.93	0.013617	0.91	63.90	119.60	0.32
Asta	2362.845	tr 200	76.38	31.98	32.88	32.67	32.98	0.014088	0.96	69.45	123.80	0.33
Asta	2362.845	tr 500	90.28	31.98	32.94	32.74	33.05	0.014861	1.03	76.03	128.73	0.35
Asta	2311.334	tr 50	55.55	31.71	32.36	32.25	32.44	0.005483	1.45	45.80	119.80	0.61
Asta	2311.334	tr 100	65.93	31.71	32.40	32.29	32.50	0.005507	1.53	51.83	126.53	0.62
Asta	2311.334	tr 200	76.38	31.71	32.45	32.33	32.55	0.005493	1.60	57.81	132.87	0.63
Asta	2311.334	tr 500	90.28	31.71	32.51	32.38	32.62	0.005406	1.68	65.43	139.88	0.63
Asta	2219.61	tr 50	55.55	31.26	31.93	31.78	31.99	0.004322	1.18	51.96	140.18	0.53
Asta	2219.61	tr 100	65.93	31.26	31.97	31.82	32.04	0.004449	1.27	58.14	146.77	0.55
Asta	2219.61	tr 200	76.38	31.26	32.01	31.86	32.09	0.004635	1.35	63.70	152.45	0.57
Asta	2219.61	tr 500	90.28	31.26	32.05	31.91	32.15	0.004803	1.45	70.97	159.59	0.59
Asta	2155.33	tr 50	55.55	31.00	31.48	31.48	31.62	0.007927	1.67	33.84	126.06	0.96
Asta	2155.33	tr 100	65.93	31.00	31.51	31.51	31.67	0.007708	1.76	38.31	132.92	0.96
Asta	2155.33	tr 200	76.38	31.00	31.55	31.55	31.71	0.007227	1.82	43.31	140.19	0.94
Asta	2155.33	tr 500	90.28	31.00	31.59	31.59	31.77	0.006988	1.91	49.21	148.32	0.94
Asta	2069.327	tr 50	55.55	30.71	31.50	31.10	31.52	0.000204	0.65	113.28	216.11	0.24
Asta	2069.327	tr 100	65.93	30.71	31.53	31.14	31.55	0.000247	0.73	119.67	220.28	0.26
Asta	2069.327	tr 200	76.38	30.71	31.56	31.18	31.58	0.000290	0.81	125.54	224.05	0.29
Asta	2069.327	tr 500	90.28	30.71	31.58	31.21	31.61	0.000365	0.92	130.46	227.16	0.32
Asta	2002.043	tr 50	55.55	30.31	31.50	31.51	31.51	0.000036	0.36	205.92	266.05	0.11
Asta	2002.043	tr 100	65.93	30.31	31.53	31.54	31.54	0.000046	0.41	214.01	269.74	0.12
Asta	2002.043	tr 200	76.38	30.31	31.56	31.57	31.57	0.000056	0.46	221.46	273.09	0.13
Asta	2002.043	tr 500	90.28	30.31	31.59	31.60	31.60	0.000072	0.53	227.91	275.96	0.15
Asta	1942.498	tr 50	55.55	29.98	31.51	30.43	31.51	0.000013	0.19	307.74	333.51	0.05
Asta	1942.498	tr 100	65.93	29.98	31.54	30.46	31.54	0.000017	0.22	317.97	337.46	0.06
Asta	1942.498	tr 200	76.38	29.98	31.56	30.49	31.57	0.000021	0.25	327.38	341.05	0.07

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
Asta	1942.498	tr 500	90.28	29.98	31.59	30.53	31.59	0.000028	0.29	335.60	344.08	0.08
Asta	1912.371		Culvert									
Asta	1882.45	tr 50	55.55	29.79	30.30	30.30	30.43	0.016106	1.69	36.70	145.46	0.90
Asta	1882.45	tr 100	65.93	29.79	30.34	30.33	30.48	0.015141	1.75	42.42	153.02	0.89
Asta	1882.45	tr 200	76.38	29.79	30.38	30.37	30.52	0.014282	1.80	48.13	160.20	0.87
Asta	1882.45	tr 500	90.28	29.79	30.42	30.41	30.57	0.013224	1.86	55.76	169.33	0.85
Asta	1792.5	tr 50	55.55	29.08	29.83	29.59	29.87	0.003010	0.91	65.08	155.90	0.39
Asta	1792.5	tr 100	65.93	29.08	29.88		29.93	0.003007	0.96	73.56	165.26	0.40
Asta	1792.5	tr 200	76.38	29.08	29.93		29.98	0.002993	1.01	81.85	173.58	0.41
Asta	1792.5	tr 500	90.28	29.08	29.99		30.05	0.003001	1.08	92.25	184.01	0.41
Asta	1732.273	tr 50	55.55	28.78	29.60		29.65	0.004470	1.07	56.63	136.44	0.48
Asta	1732.273	tr 100	65.93	28.78	29.65		29.71	0.004424	1.14	64.01	145.27	0.48
Asta	1732.273	tr 200	76.38	28.78	29.70		29.76	0.004393	1.20	71.21	153.02	0.49
Asta	1732.273	tr 500	90.28	28.78	29.76		29.83	0.004371	1.27	80.37	162.51	0.49
Asta	1650.039	tr 50	55.55	28.37	29.15		29.22	0.006152	1.63	49.24	119.54	0.60
Asta	1650.039	tr 100	65.93	28.37	29.21		29.29	0.006090	1.70	56.12	126.85	0.60
Asta	1650.039	tr 200	76.38	28.37	29.26		29.34	0.006030	1.76	62.84	133.55	0.61
Asta	1650.039	tr 500	90.28	28.37	29.32		29.41	0.005919	1.83	71.58	141.46	0.61
Asta	1597.917	tr 50	55.55	28.11	28.89		28.96	0.004229	1.19	53.63	123.22	0.48
Asta	1597.917	tr 100	65.93	28.11	28.95		29.02	0.004203	1.26	60.96	130.65	0.49
Asta	1597.917	tr 200	76.38	28.11	29.00		29.08	0.004184	1.32	68.06	137.48	0.49
Asta	1597.917	tr 500	90.28	28.11	29.07		29.15	0.004193	1.39	77.24	148.71	0.50
Asta	1509.779	tr 50	55.55	27.68	28.53		28.59	0.004164	1.13	52.40	118.20	0.47
Asta	1509.779	tr 100	65.93	27.68	28.58		28.65	0.004153	1.20	59.41	126.00	0.48
Asta	1509.779	tr 200	76.38	27.68	28.64		28.71	0.004146	1.27	66.23	132.75	0.48
Asta	1509.779	tr 500	90.28	27.68	28.70		28.78	0.004124	1.34	75.00	139.58	0.49
Asta	1448.047	tr 50	55.55	27.43	28.20		28.29	0.005775	1.55	47.39	110.28	0.58
Asta	1448.047	tr 100	65.93	27.43	28.26		28.35	0.005777	1.63	53.97	117.57	0.58
Asta	1448.047	tr 200	76.38	27.43	28.31		28.41	0.005785	1.70	60.33	124.22	0.59
Asta	1448.047	tr 500	90.28	27.43	28.37		28.48	0.005793	1.79	68.48	132.25	0.60
Asta	1357.417	tr 50	55.55	26.93	27.67		27.75	0.005987	1.38	46.23	113.35	0.57
Asta	1357.417	tr 100	65.93	26.93	27.72		27.82	0.006033	1.46	52.39	120.39	0.58
Asta	1357.417	tr 200	76.38	26.93	27.77		27.87	0.006073	1.54	58.36	126.79	0.59
Asta	1357.417	tr 500	90.28	26.93	27.83		27.94	0.006122	1.63	66.00	134.62	0.60
Asta	1292.359	tr 50	55.55	26.63	27.30		27.38	0.005527	1.25	50.15	127.57	0.54
Asta	1292.359	tr 100	65.93	26.63	27.35		27.43	0.005639	1.33	56.39	134.30	0.55
Asta	1292.359	tr 200	76.38	26.63	27.40		27.48	0.005739	1.41	62.39	140.44	0.56
Asta	1292.359	tr 500	90.28	26.63	27.45		27.55	0.005859	1.50	70.00	147.80	0.58
Asta	1214.755	tr 50	55.55	26.22	26.94		26.99	0.004307	1.03	58.01	152.84	0.47
Asta	1214.755	tr 100	65.93	26.22	26.99		27.05	0.004180	1.08	66.30	162.91	0.47
Asta	1214.755	tr 200	76.38	26.22	27.04		27.10	0.004084	1.13	74.34	172.28	0.47
Asta	1214.755	tr 500	90.28	26.22	27.10		27.17	0.003972	1.19	84.74	183.54	0.47
Asta	1148.48	tr 50	55.55	25.88	26.65	26.45	26.71	0.004082	1.16	55.88	136.47	0.47
Asta	1148.48	tr 100	65.93	25.88	26.70	26.50	26.77	0.004291	1.25	62.49	145.27	0.49
Asta	1148.48	tr 200	76.38	25.88	26.75	26.54	26.82	0.004397	1.32	69.27	153.16	0.50
Asta	1148.48	tr 500	90.28	25.88	26.80	26.60	26.88	0.004526	1.41	77.86	162.73	0.51
Asta	1080.733	tr 50	55.55	25.58	26.13	26.13	26.29	0.010253	1.50	35.69	119.90	0.71
Asta	1080.733	tr 100	65.93	25.58	26.17	26.17	26.34	0.009463	1.53	41.10	125.84	0.69
Asta	1080.733	tr 200	76.38	25.58	26.21	26.21	26.40	0.009124	1.58	45.91	130.93	0.69
Asta	1080.733	tr 500	90.28	25.58	26.26	26.26	26.46	0.008570	1.62	52.55	138.81	0.68
Asta	942.0653	tr 50	55.55	24.85	25.54	25.31	25.57	0.001994	0.88	79.65	204.94	0.36
Asta	942.0653	tr 100	65.93	24.85	25.59	25.35	25.63	0.001990	0.93	90.27	215.06	0.37
Asta	942.0653	tr 200	76.38	24.85	25.64	25.39	25.67	0.002005	0.98	100.24	224.15	0.37
Asta	942.0653	tr 500	90.28	24.85	25.69	25.42	25.73	0.002037	1.03	112.52	233.31	0.38
Asta	768.963	tr 50	55.55	24.65	25.37		25.38	0.000700	0.49	140.69	346.24	0.20
Asta	768.963	tr 100	65.93	24.65	25.42		25.43	0.000717	0.52	158.24	376.40	0.20
Asta	768.963	tr 200	76.38	24.65	25.46		25.47	0.000714	0.54	177.24	417.87	0.20
Asta	768.963	tr 500	90.28	24.65	25.52		25.53	0.000705	0.56	200.86	436.01	0.20
Asta	652.3372	tr 50	55.55	24.49	25.27		25.28	0.000973	0.62	120.29	295.67	0.24
Asta	652.3372	tr 100	65.93	24.49	25.31		25.33	0.001036	0.67	133.68	310.87	0.25
Asta	652.3372	tr 200	76.38	24.49	25.36		25.37	0.001059	0.70	148.20	326.55	0.25
Asta	652.3372	tr 500	90.28	24.49	25.41		25.43	0.001093	0.75	166.22	345.01	0.26
Asta	504.5828	tr 50	55.55	24.21	25.07	24.79	25.10	0.001621	0.74	84.25	231.87	0.30
Asta	504.5828	tr 100	65.93	24.21	24.98	24.83	25.04	0.004631	1.12	64.73	193.90	0.49
Asta	504.5828	tr 200	76.38	24.21	25.02	24.87	25.08	0.004618	1.18	72.39	210.53	0.49
Asta	504.5828	tr 500	90.28	24.21	25.06	24.92	25.13	0.004502	1.22	82.70	229.21	0.49

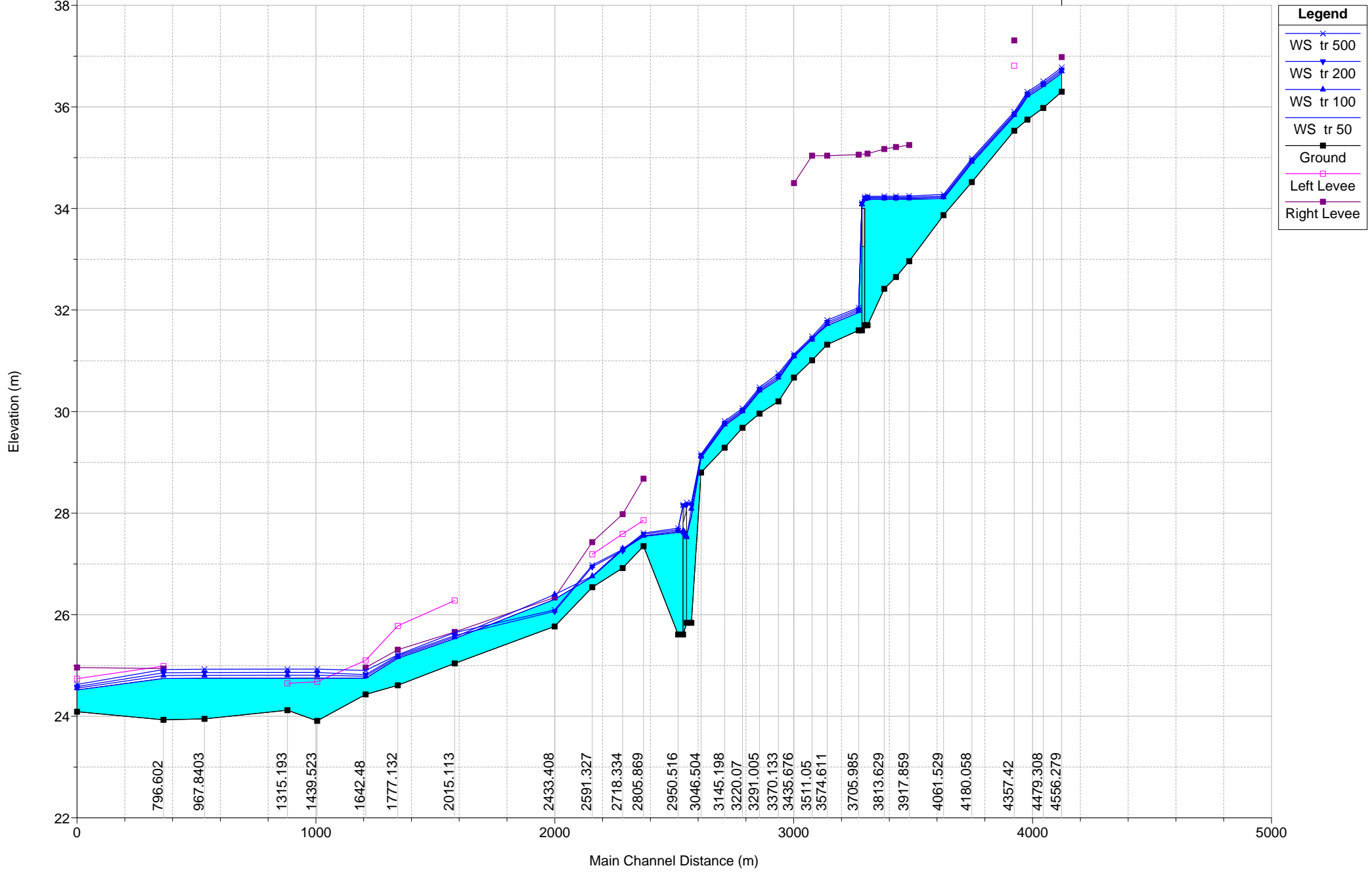
HEC-RAS Plan: Plan 04 River: 090003_FIUME_743 Reach: Asta (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
Asta	412.4449	tr 50	55.55	24.03	24.58	24.58	24.74	0.014988	1.81	32.90	117.70	0.95
Asta	412.4449	tr 100	65.93	24.03	24.90	24.64	24.91	0.000557	0.53	159.82	448.19	0.20
Asta	412.4449	tr 200	76.38	24.03	24.94	24.68	24.95	0.000536	0.54	179.83	459.07	0.20
Asta	412.4449	tr 500	90.28	24.03	25.00	24.73	25.01	0.000512	0.55	204.82	466.75	0.20
Asta	224.0487	tr 50	55.55	23.73	24.37	24.37	24.54	0.014351	1.90	33.03	103.84	0.89
Asta	224.0487	tr 100	65.93	23.73	24.42	24.42	24.60	0.013710	1.98	38.27	112.34	0.88
Asta	224.0487	tr 200	76.38	23.73	24.47	24.47	24.66	0.013124	2.05	43.54	120.29	0.87
Asta	224.0487	tr 500	90.28	23.73	24.52	24.52	24.72	0.012747	2.14	50.06	129.45	0.87

urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE

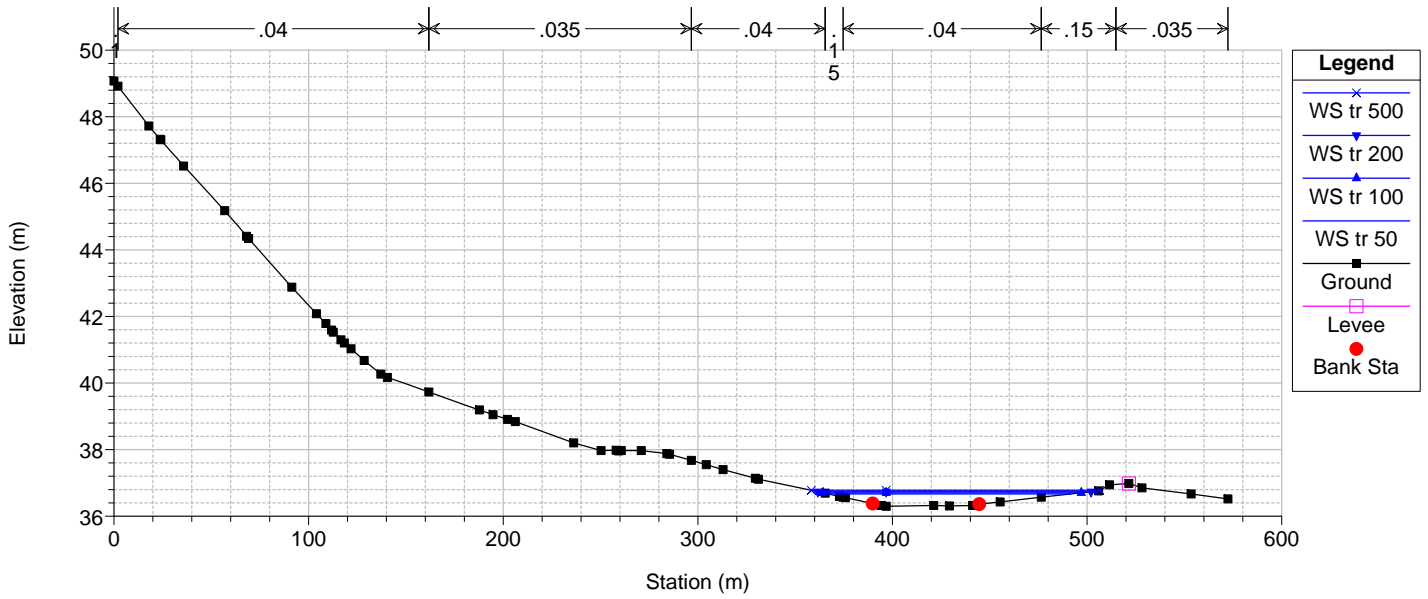
Can di Bonifica Asta



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

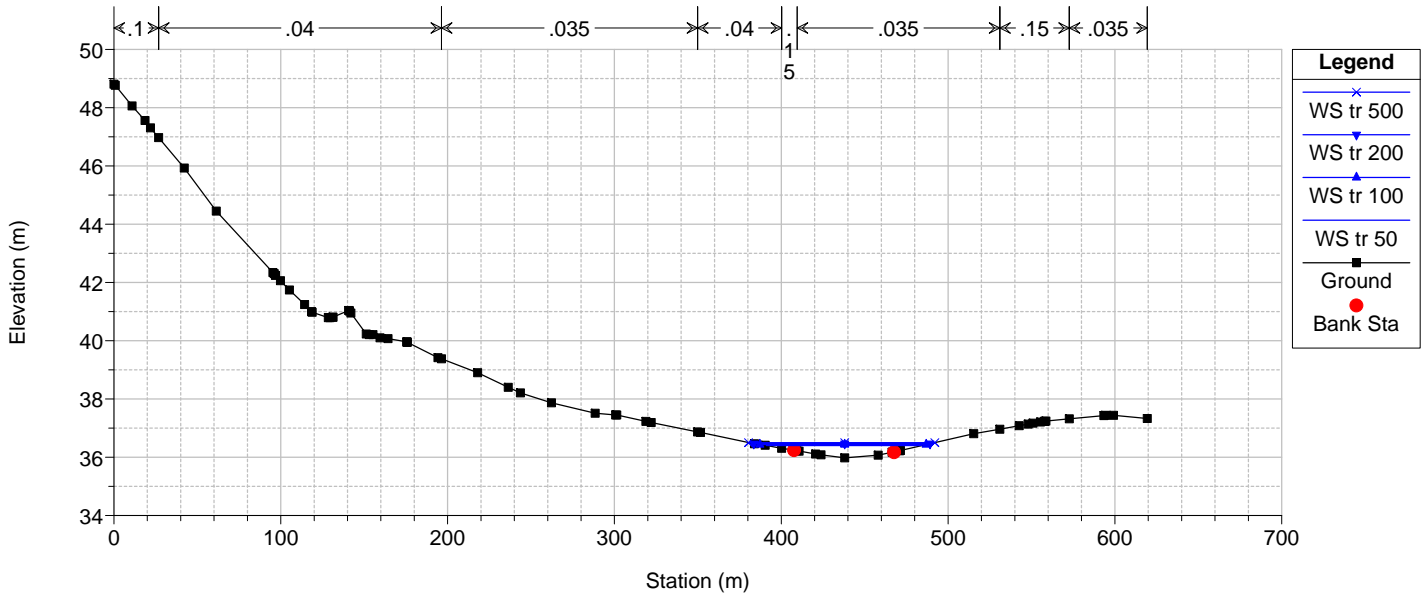
River = Can di Bonifica Reach = Asta RS = 4556.279 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

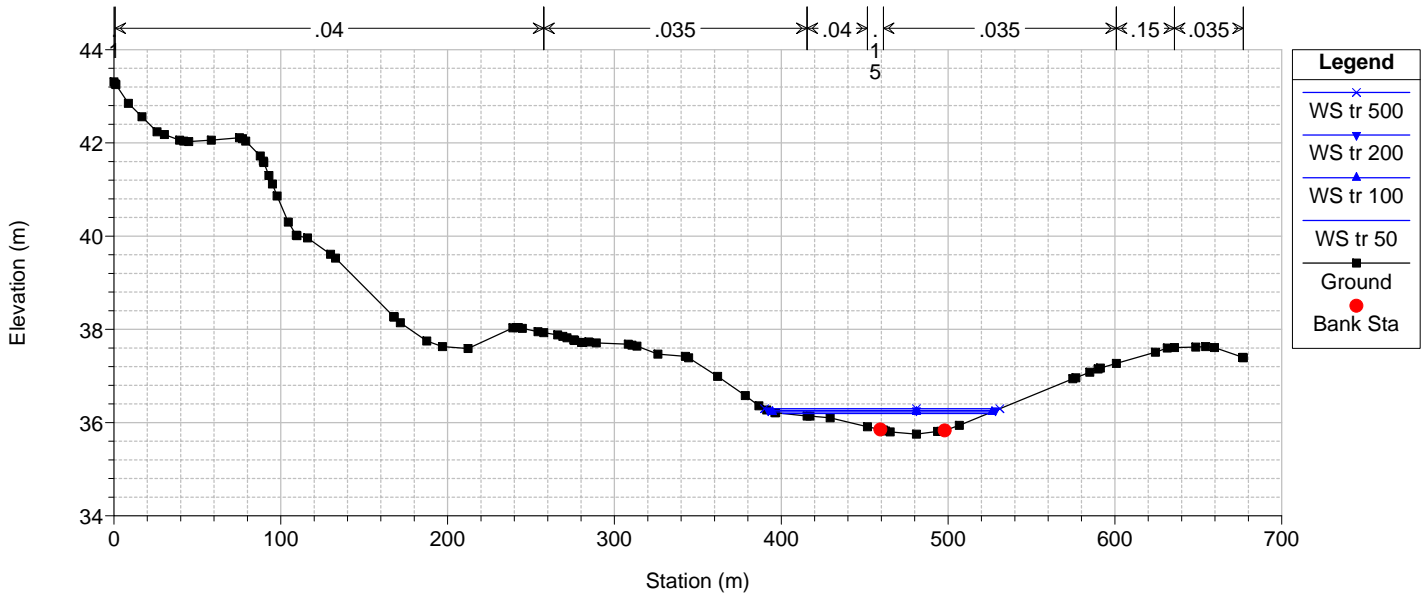
River = Can di Bonifica Reach = Asta RS = 4479.308 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

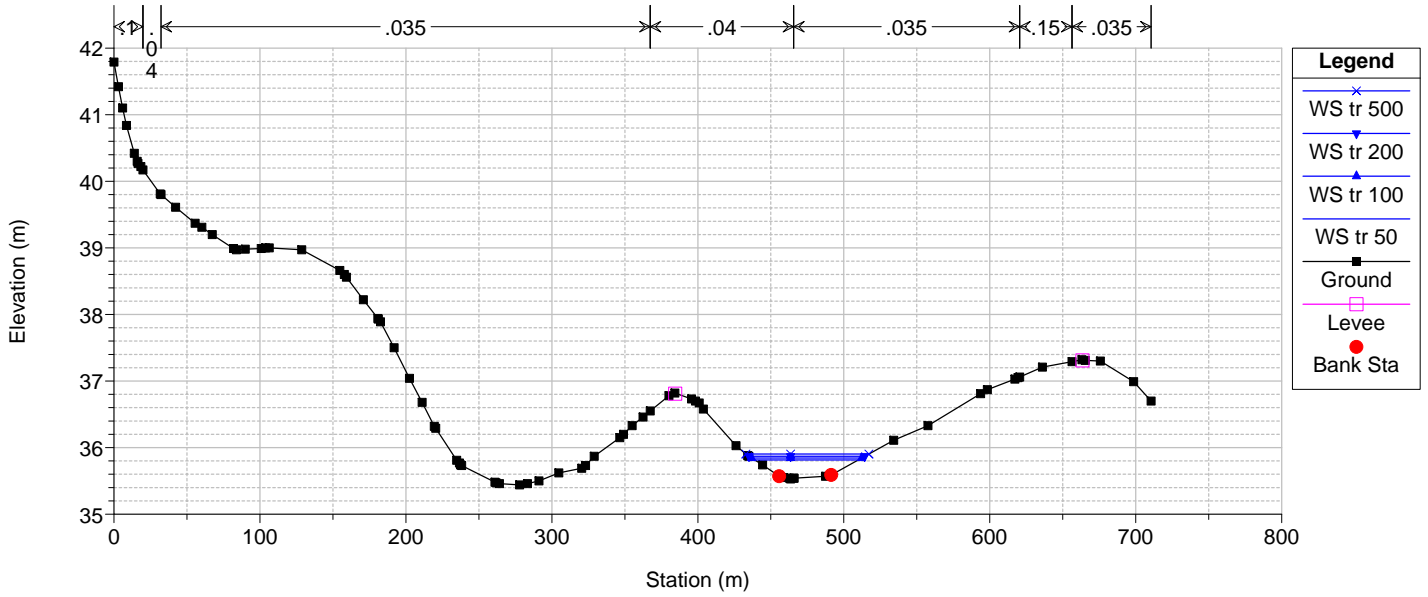
River = Can di Bonifica Reach = Asta RS = 4412.439 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

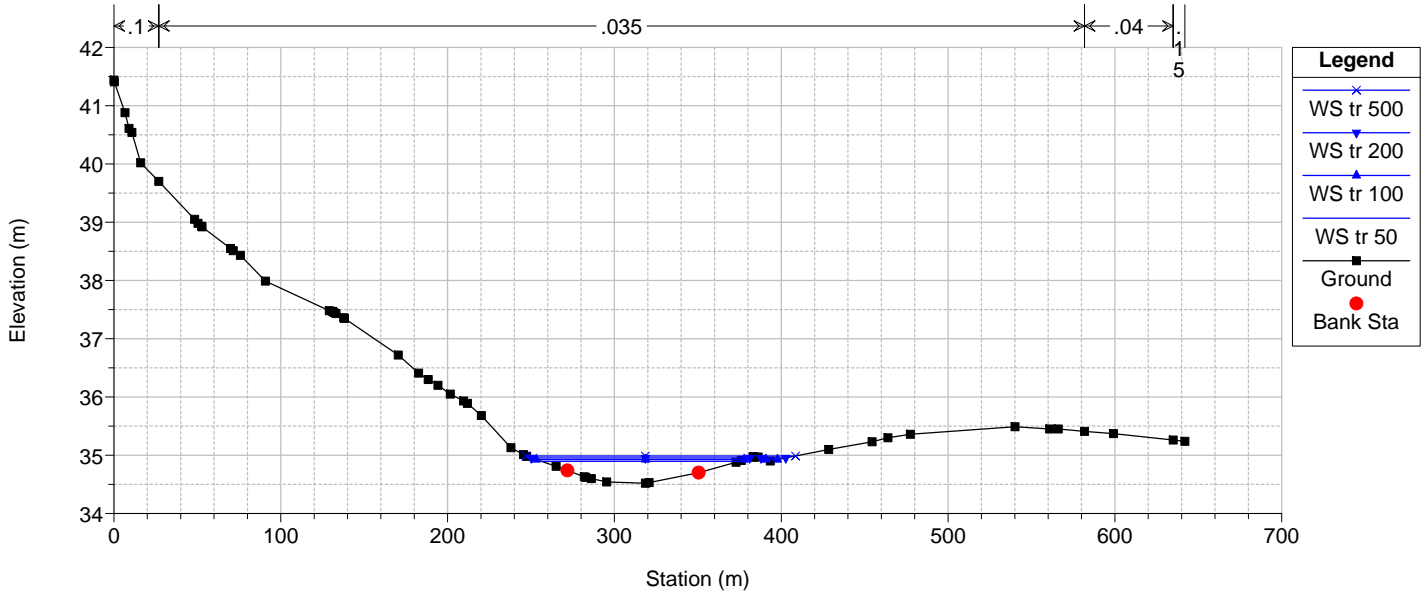
River = Can di Bonifica Reach = Asta RS = 4357.42 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

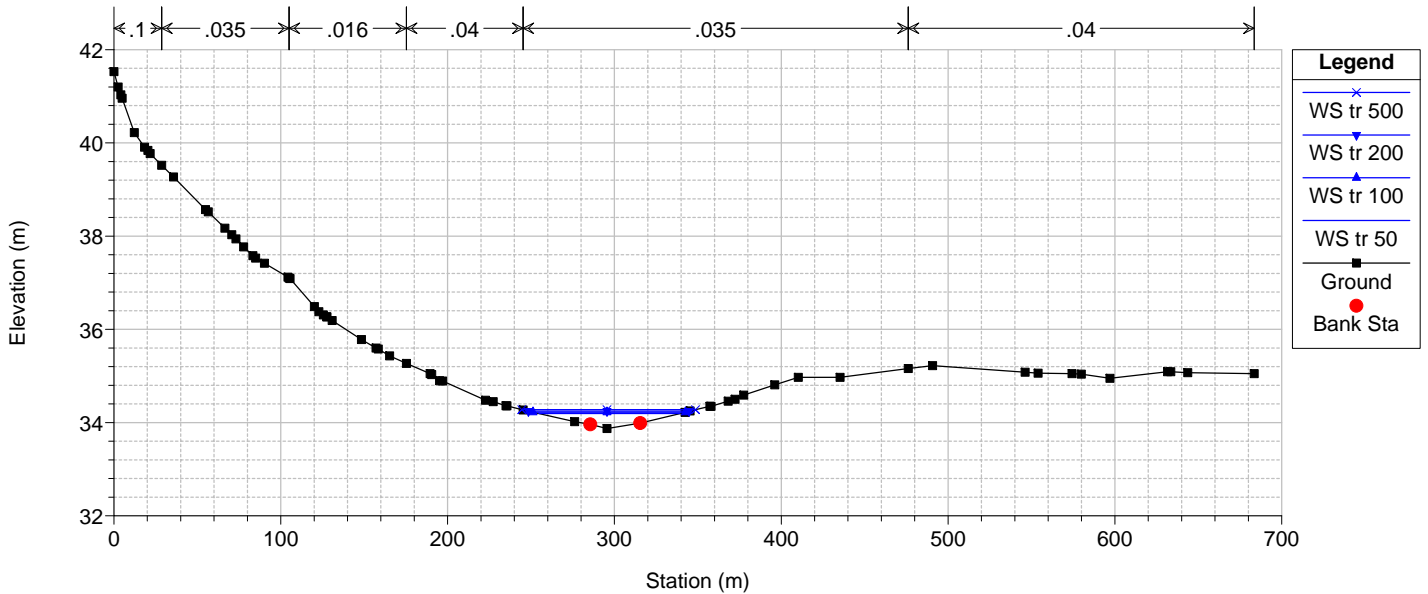
River = Can di Bonifica Reach = Asta RS = 4180.058 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

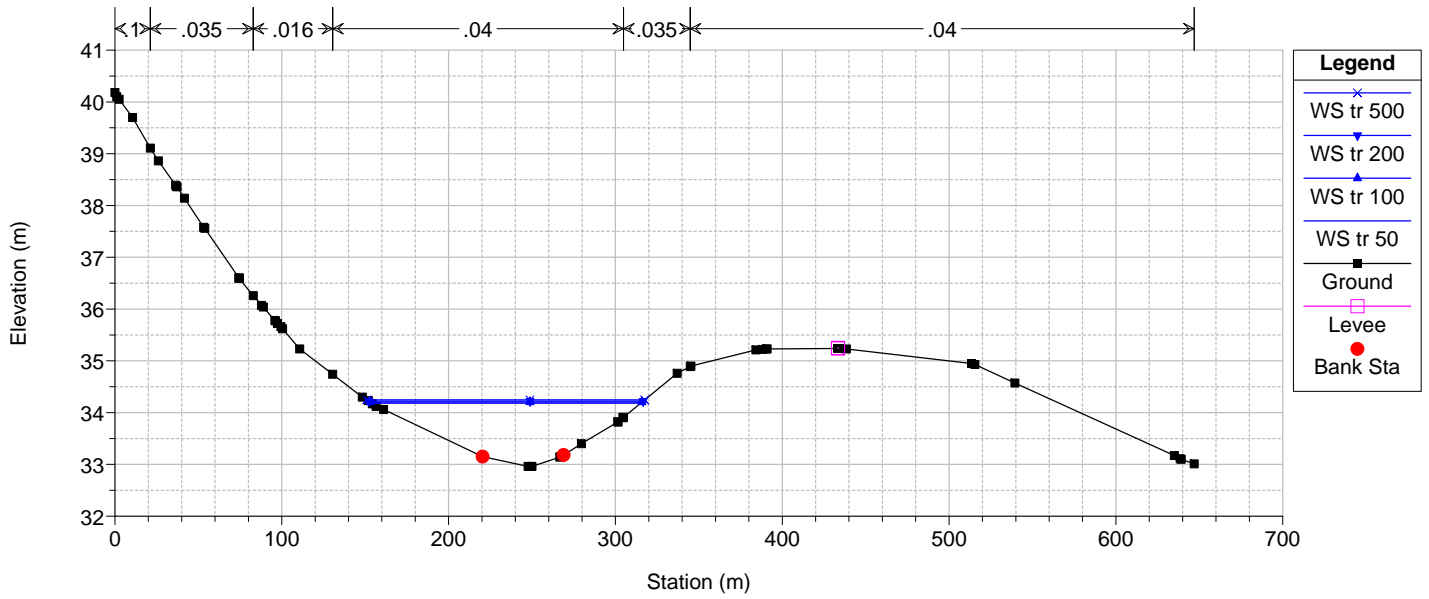
River = Can di Bonifica Reach = Asta RS = 4061.529 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

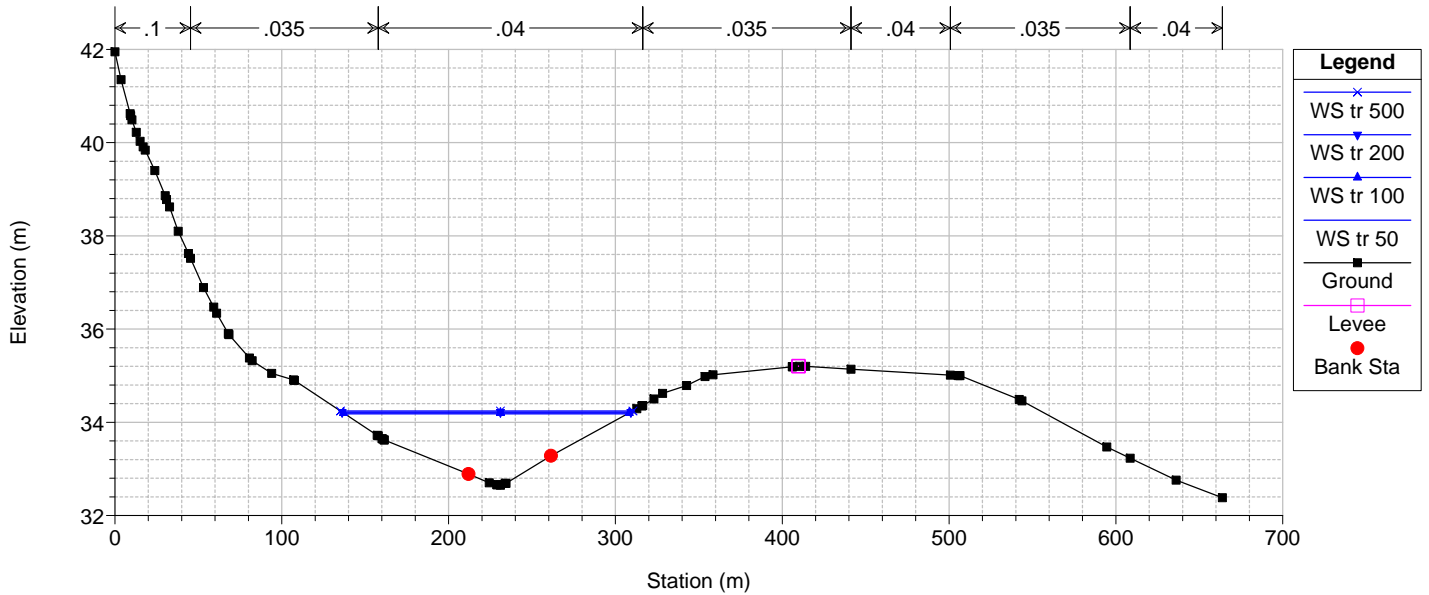
River = Can di Bonifica Reach = Asta RS = 3917.859 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

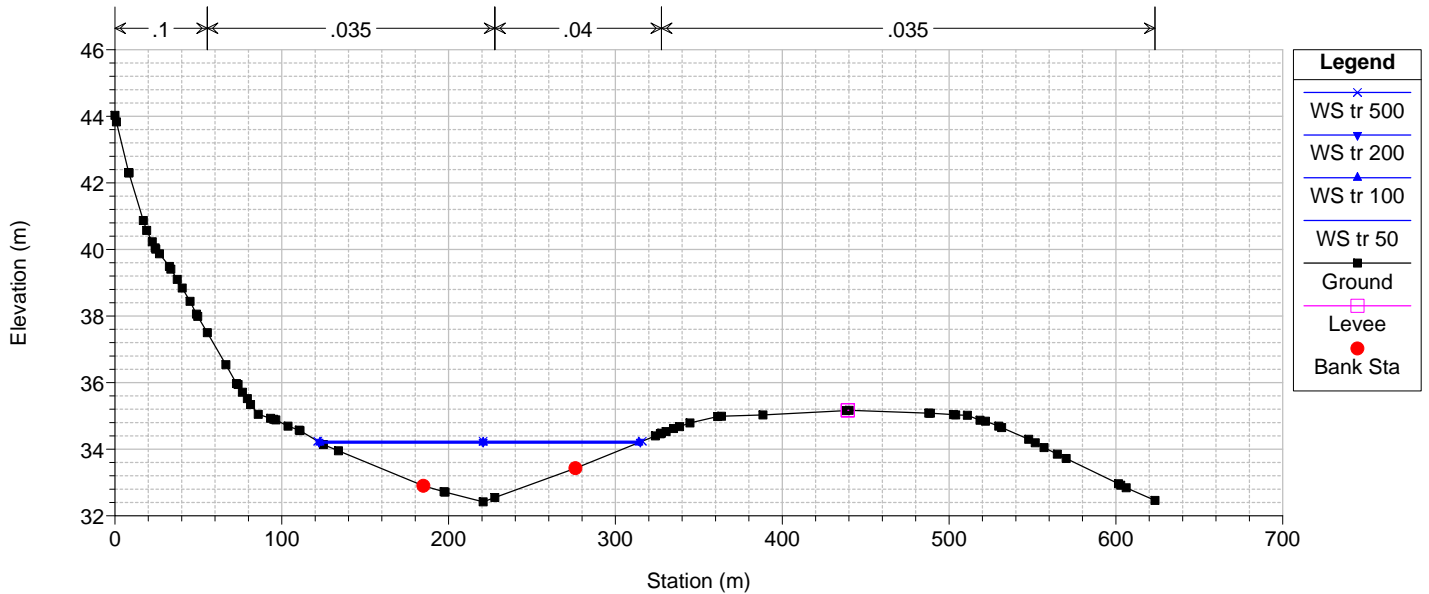
River = Can di Bonifica Reach = Asta RS = 3862.325 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

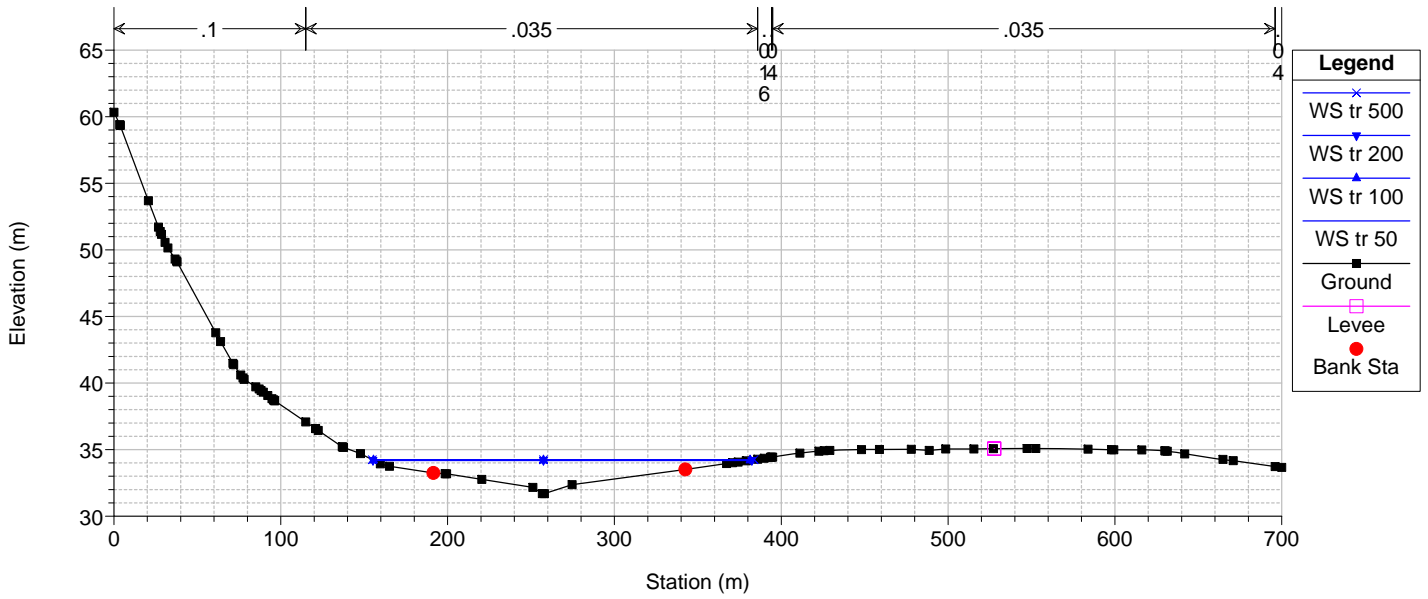
River = Can di Bonifica Reach = Asta RS = 3813.629 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

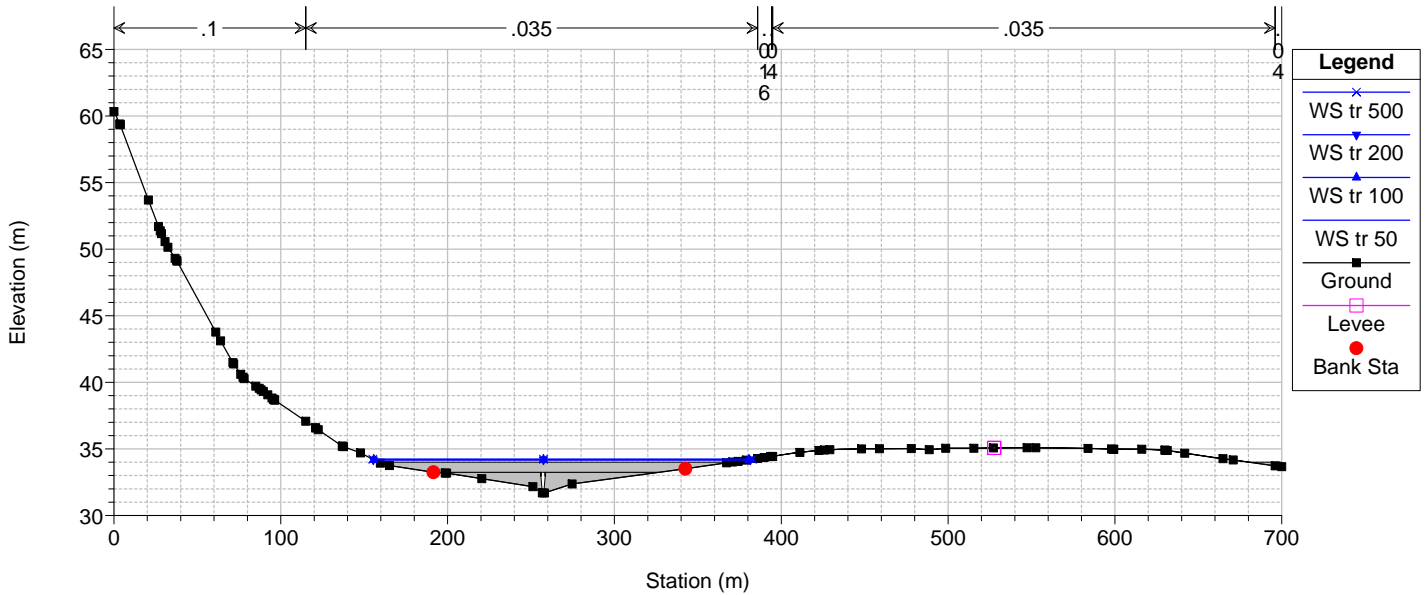
River = Can di Bonifica Reach = Asta RS = 3743.607 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

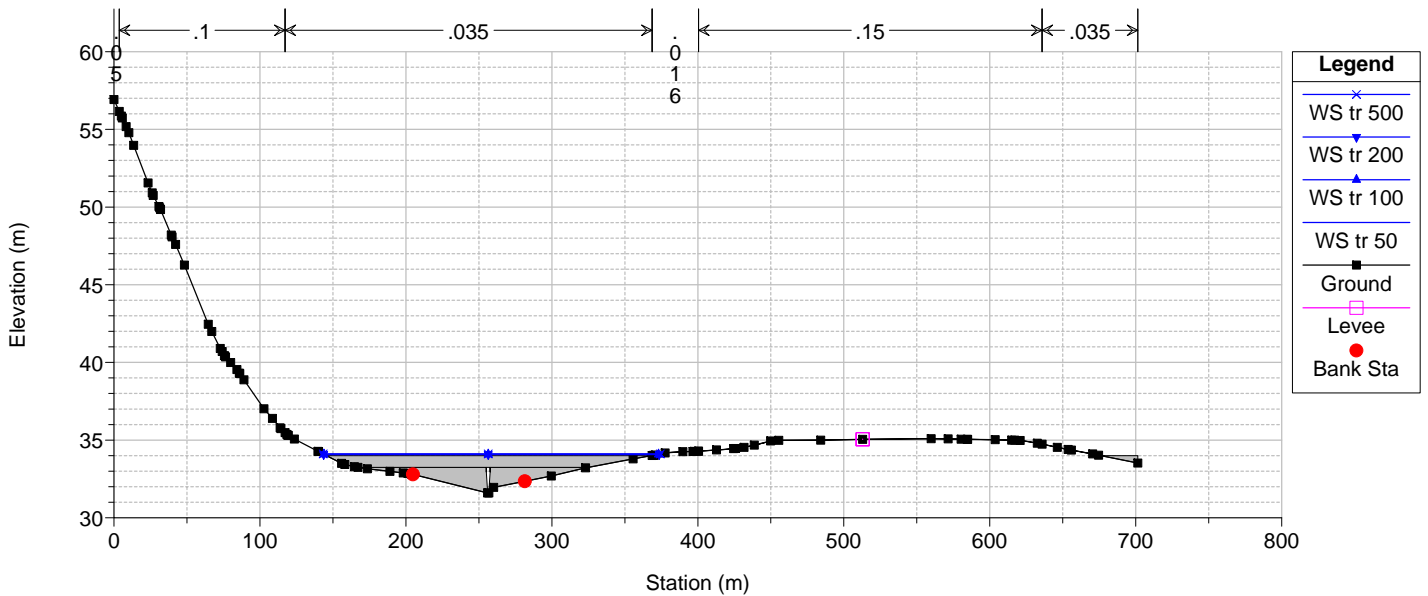
River = Can di Bonifica Reach = Asta RS = 3730.037 BR COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

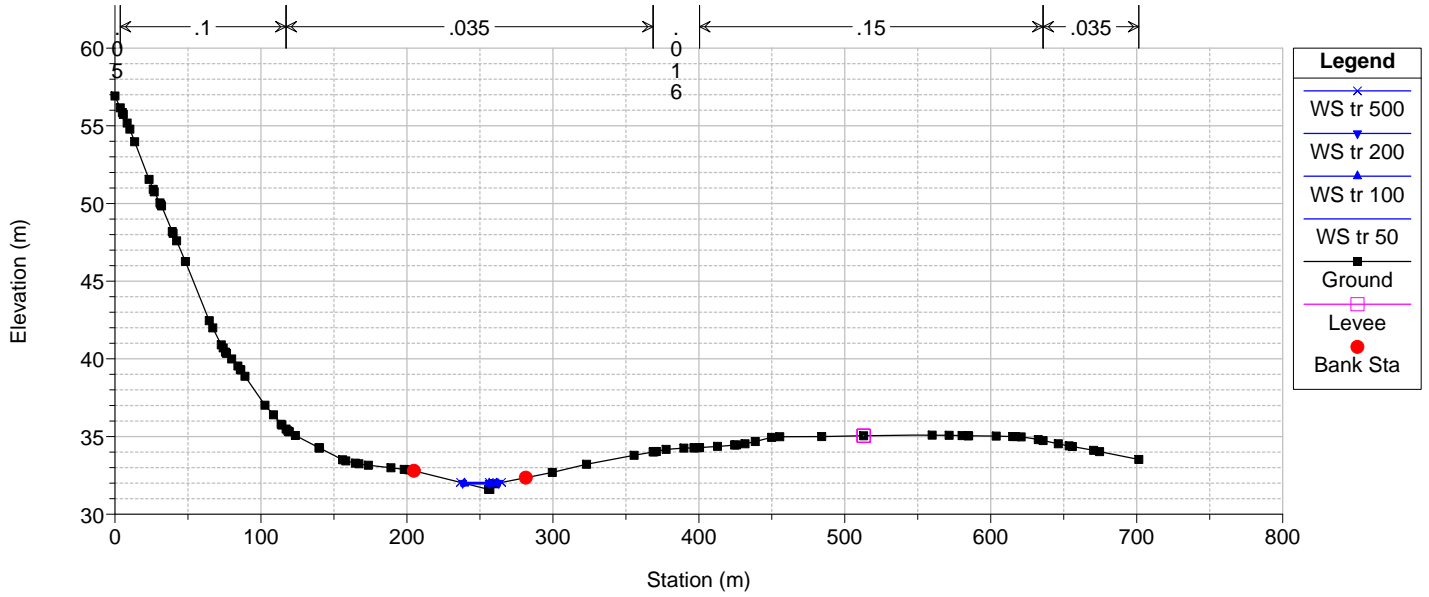
River = Can di Bonifica Reach = Asta RS = 3730.037 BR COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

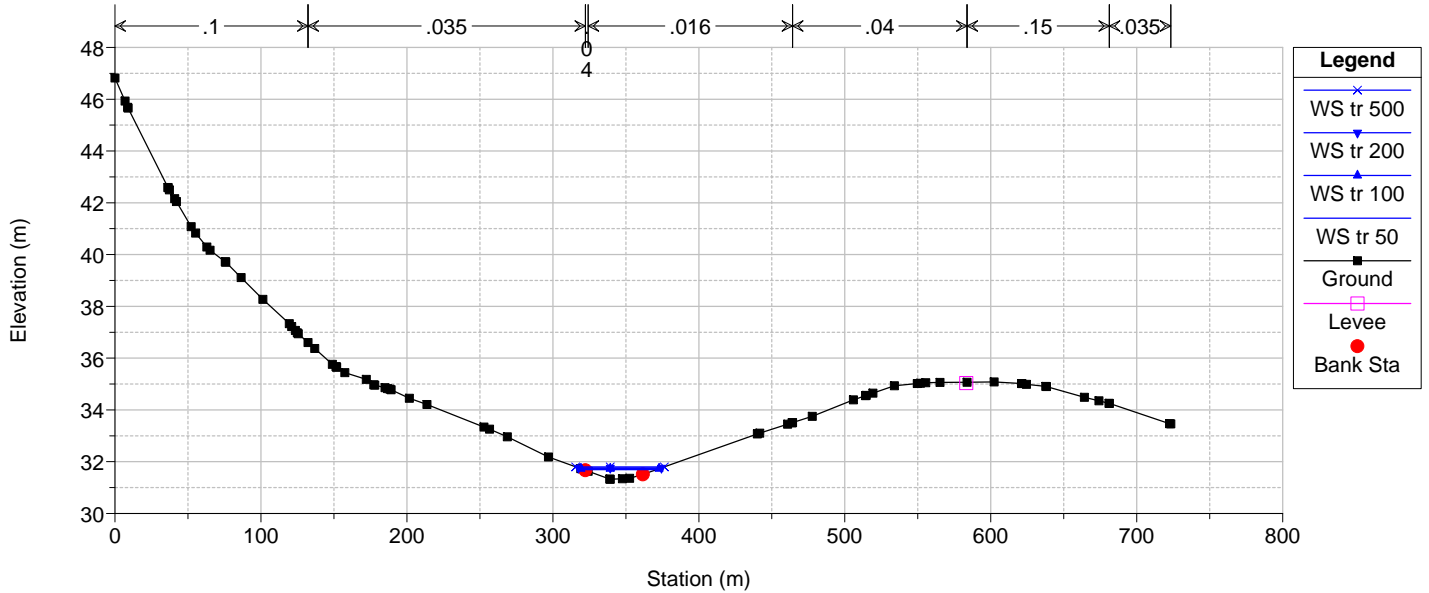
River = Can di Bonifica Reach = Asta RS = 3705.985 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

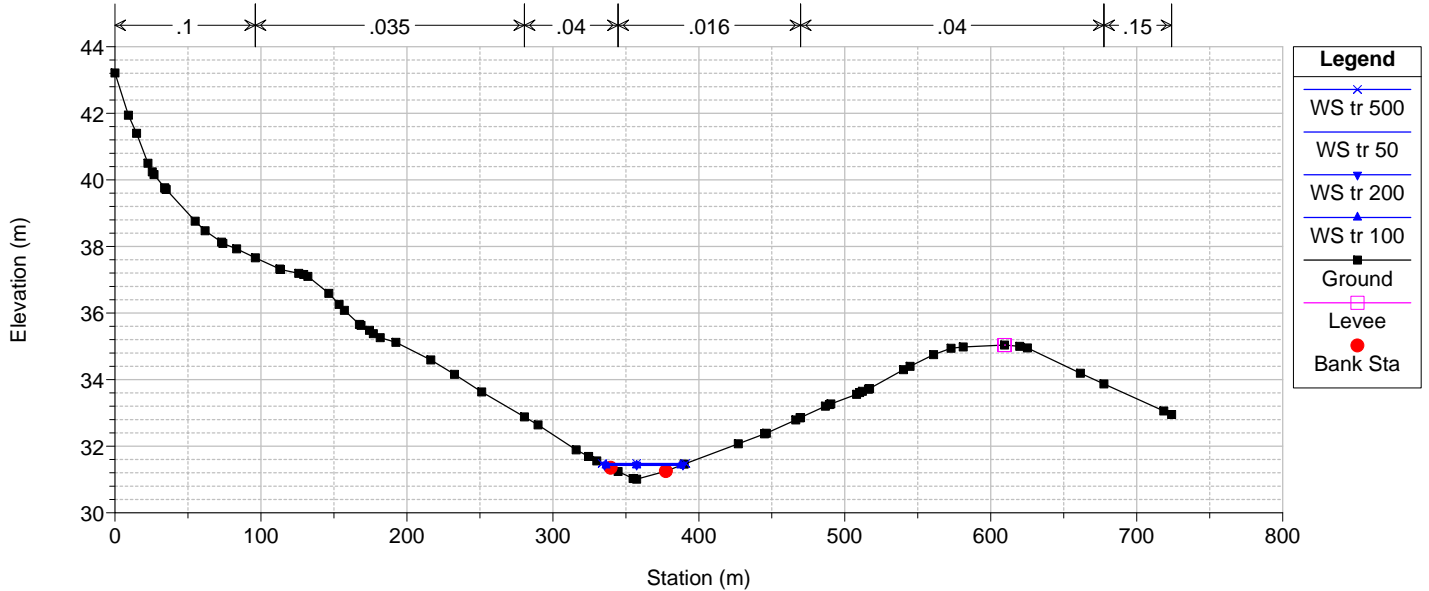
River = Can di Bonifica Reach = Asta RS = 3574.611 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

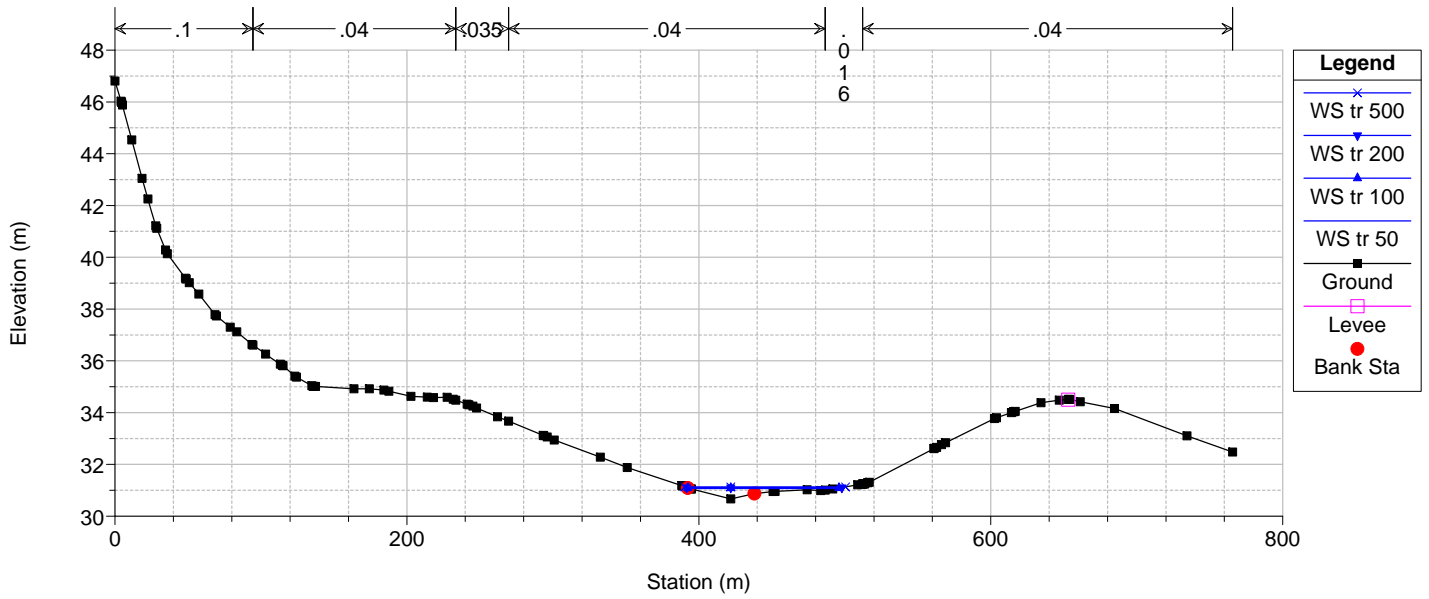
River = Can di Bonifica Reach = Asta RS = 3511.05 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

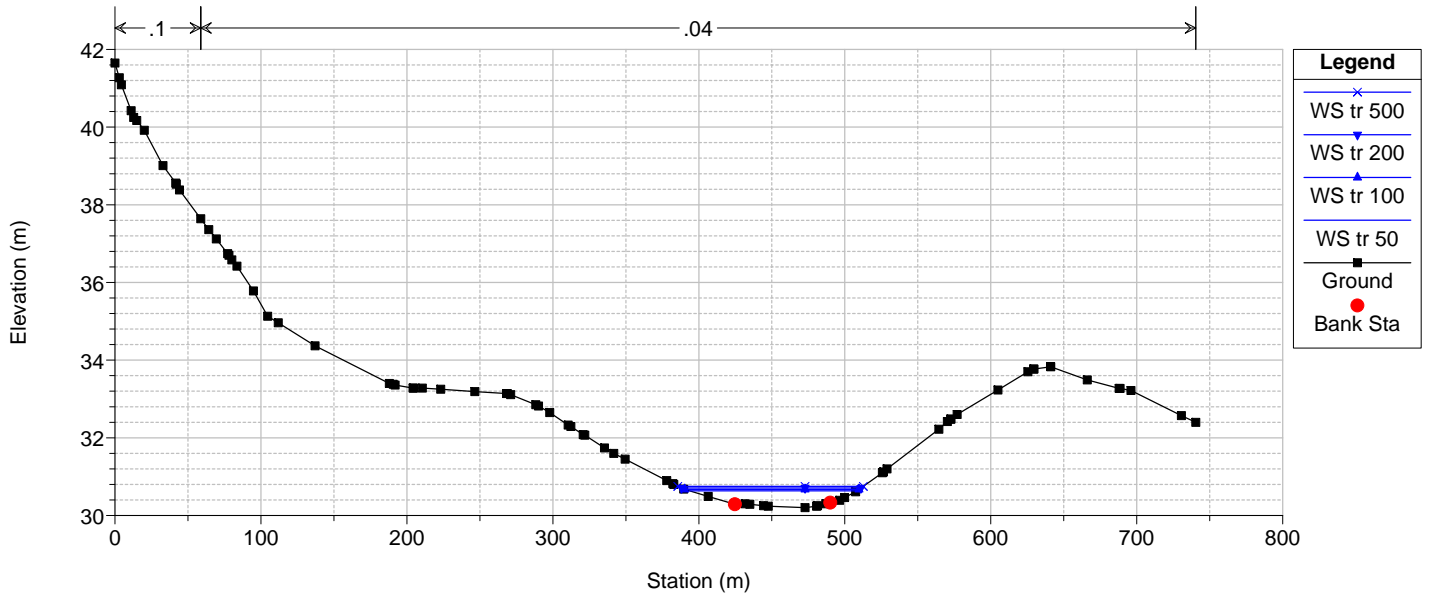
River = Can di Bonifica Reach = Asta RS = 3435.676 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

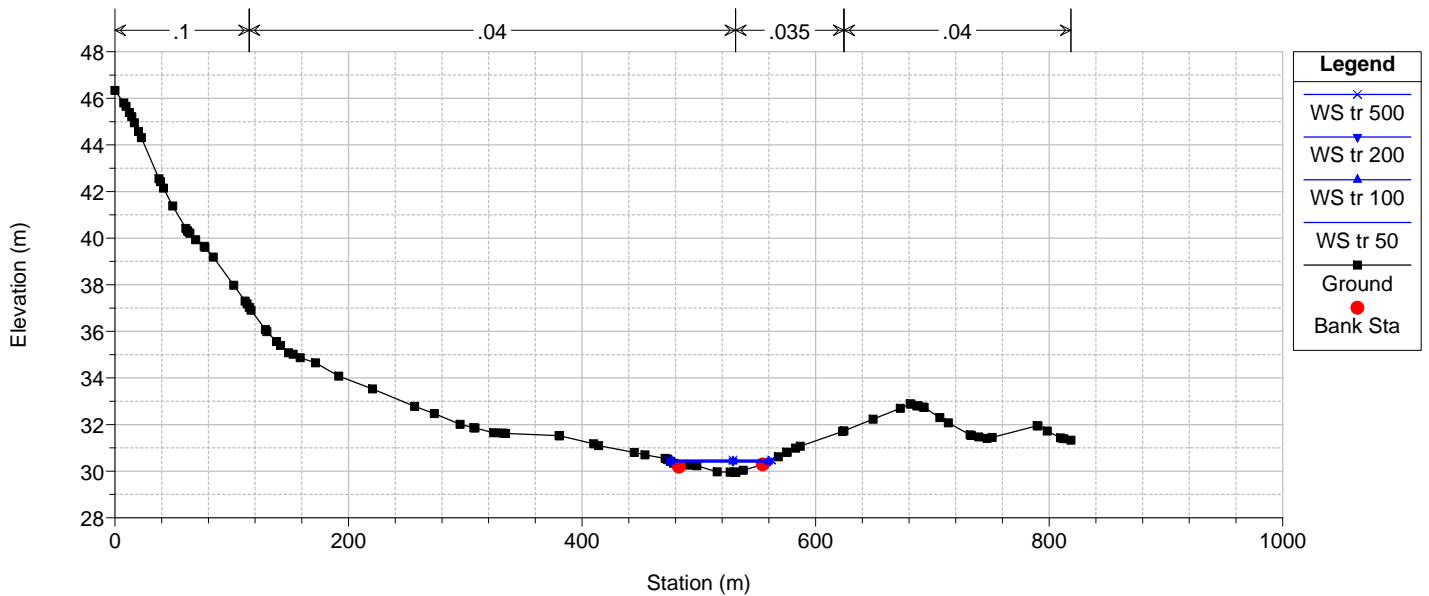
River = Can di Bonifica Reach = Asta RS = 3370.133 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

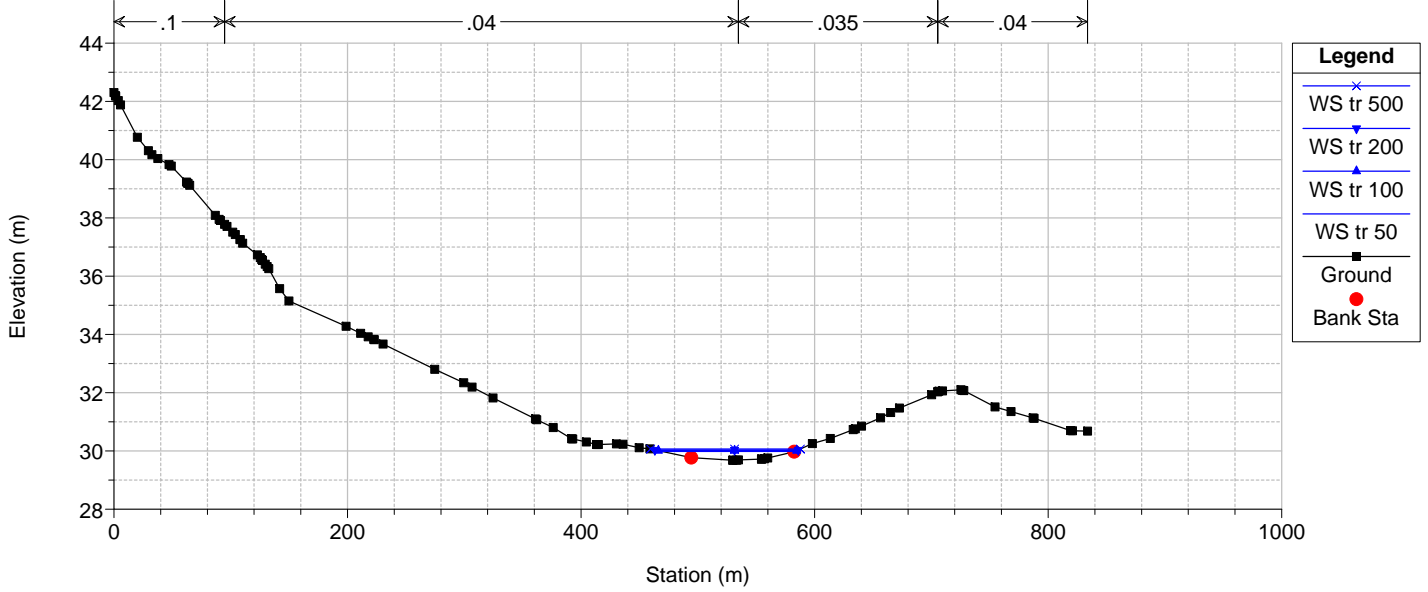
River = Can di Bonifica Reach = Asta RS = 3291.005 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

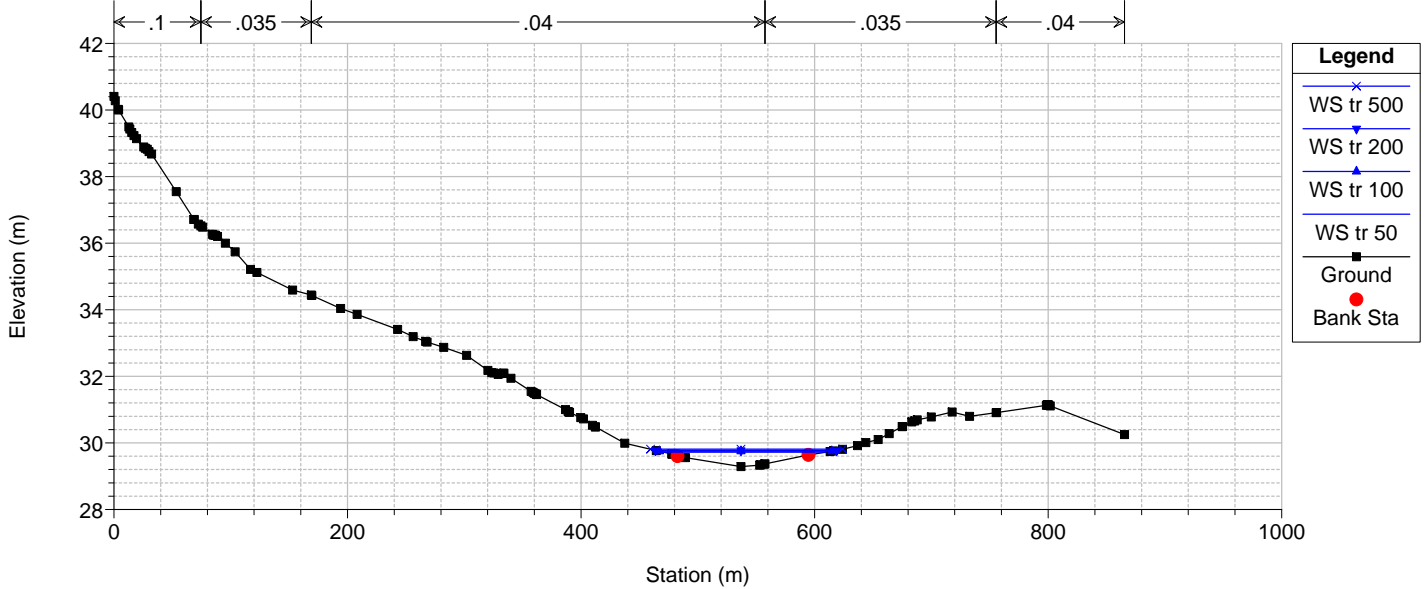
River = Can di Bonifica Reach = Asta RS = 3220.07 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

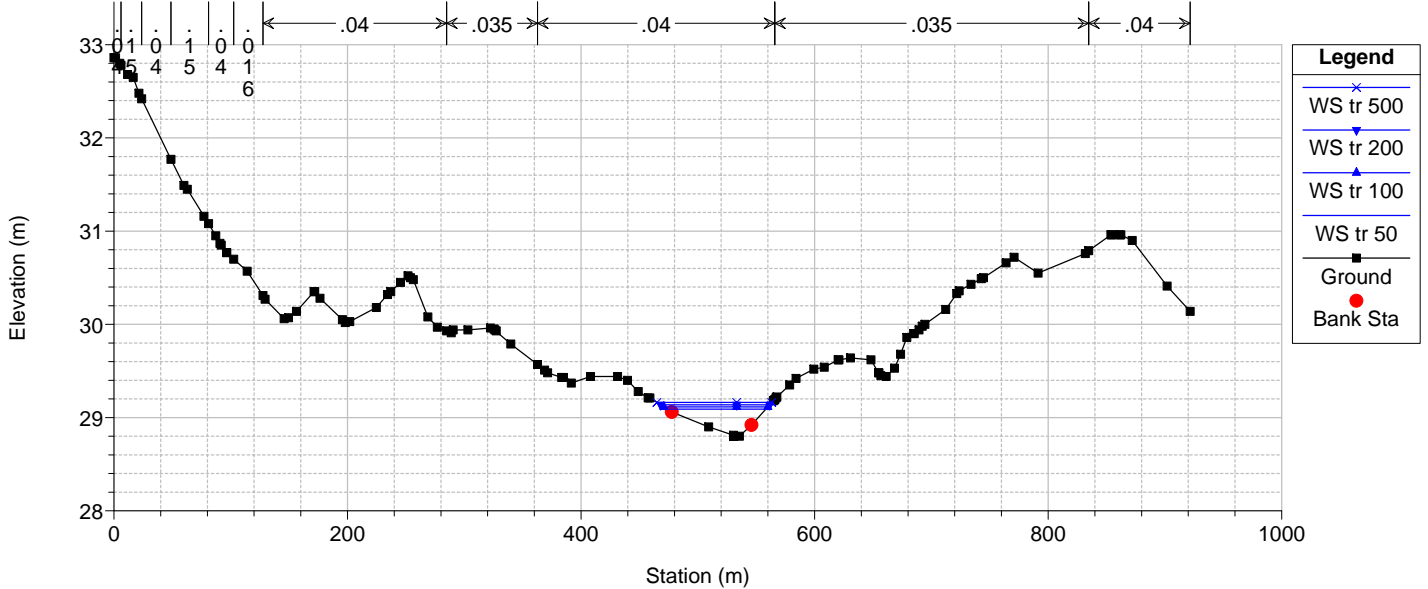
River = Can di Bonifica Reach = Asta RS = 3145.198 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

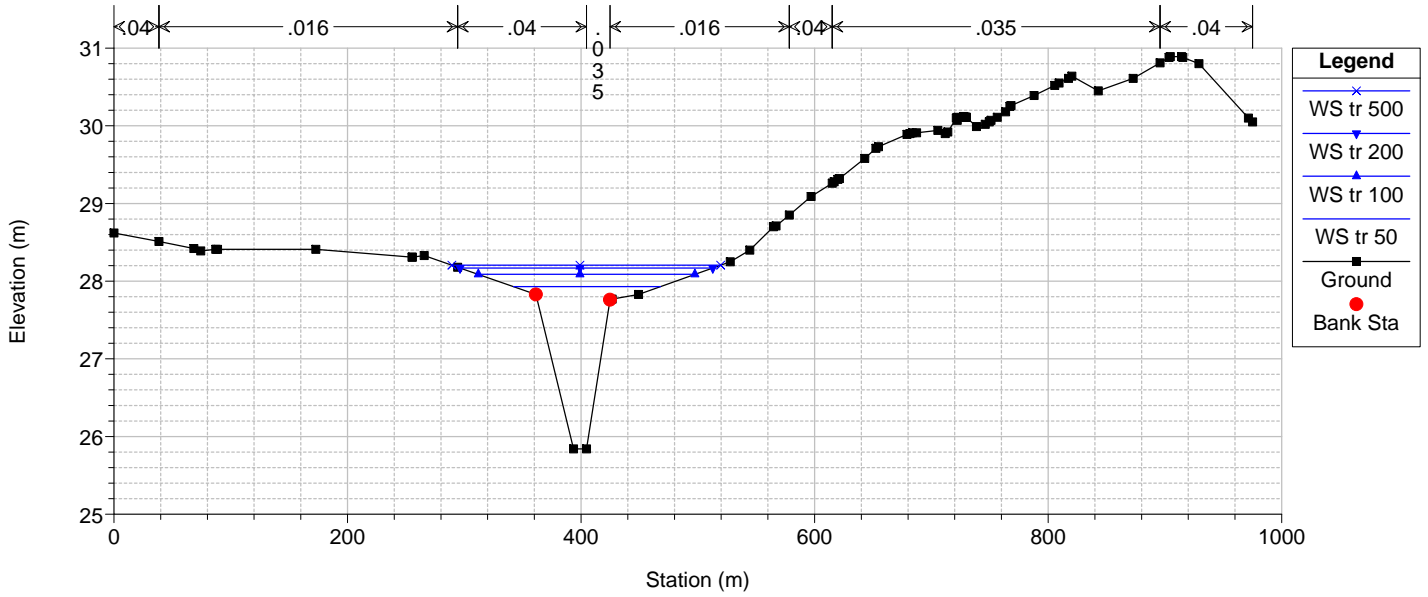
River = Can di Bonifica Reach = Asta RS = 3046.504 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

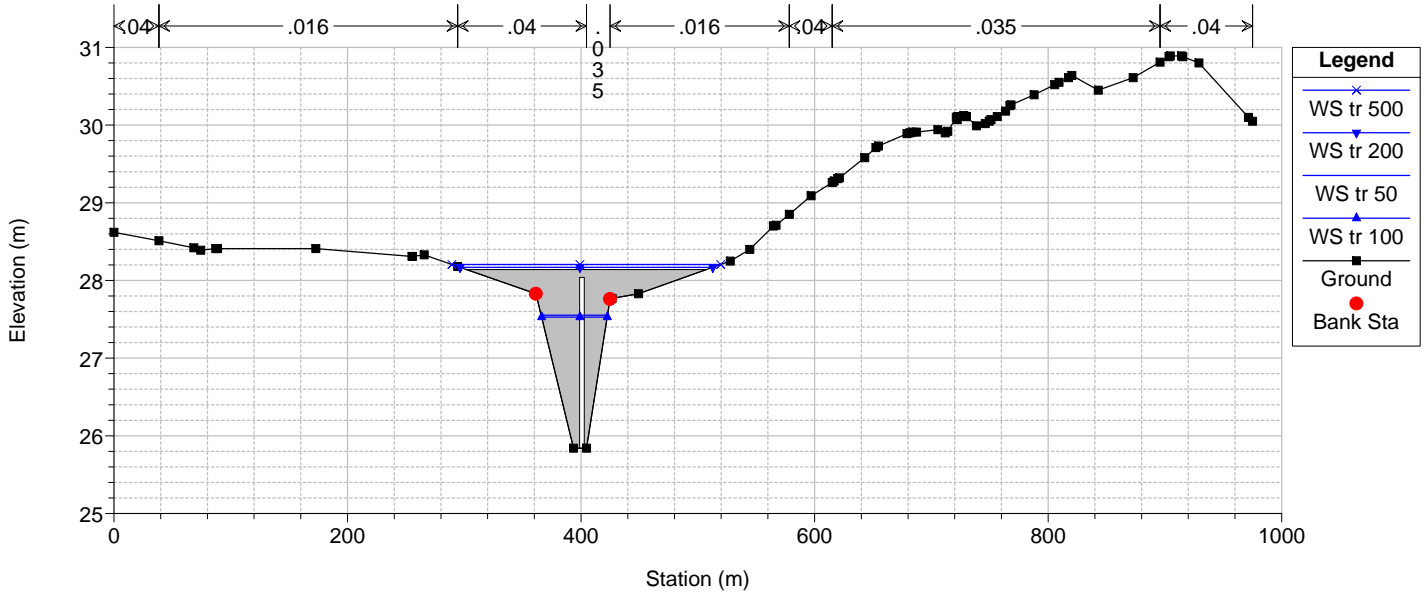
River = Can di Bonifica Reach = Asta RS = 3006.139 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

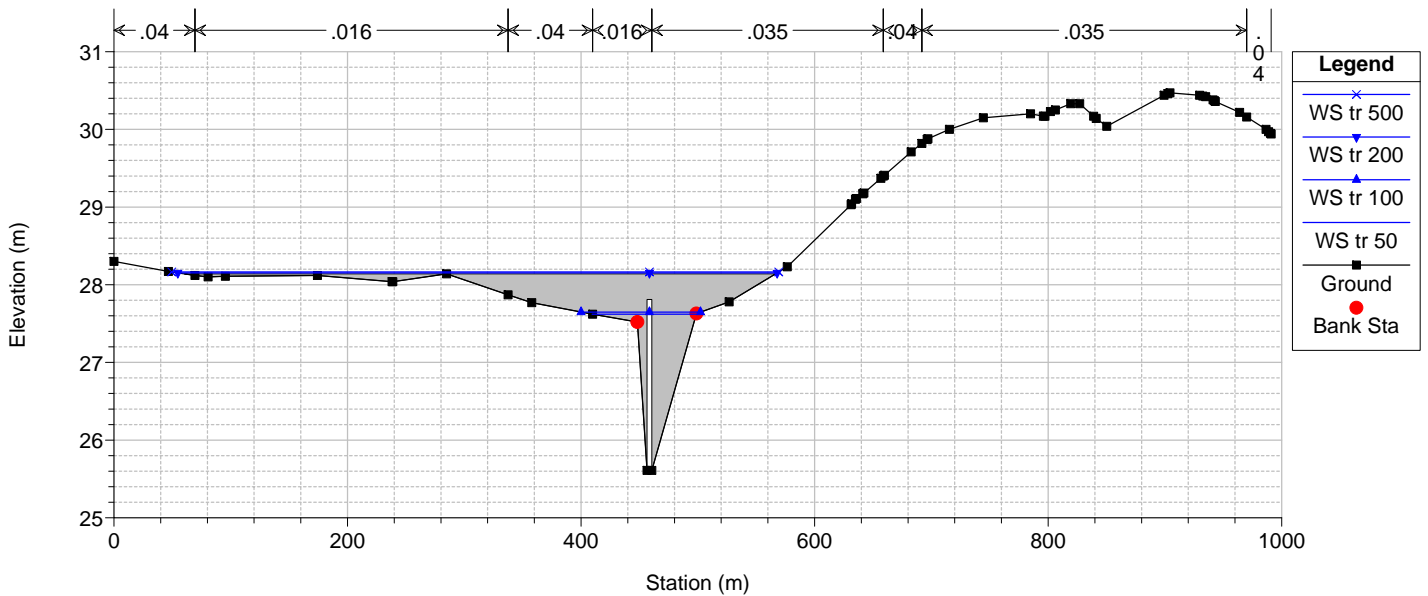
River = Can di Bonifica Reach = Asta RS = 2976.972 Culv COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

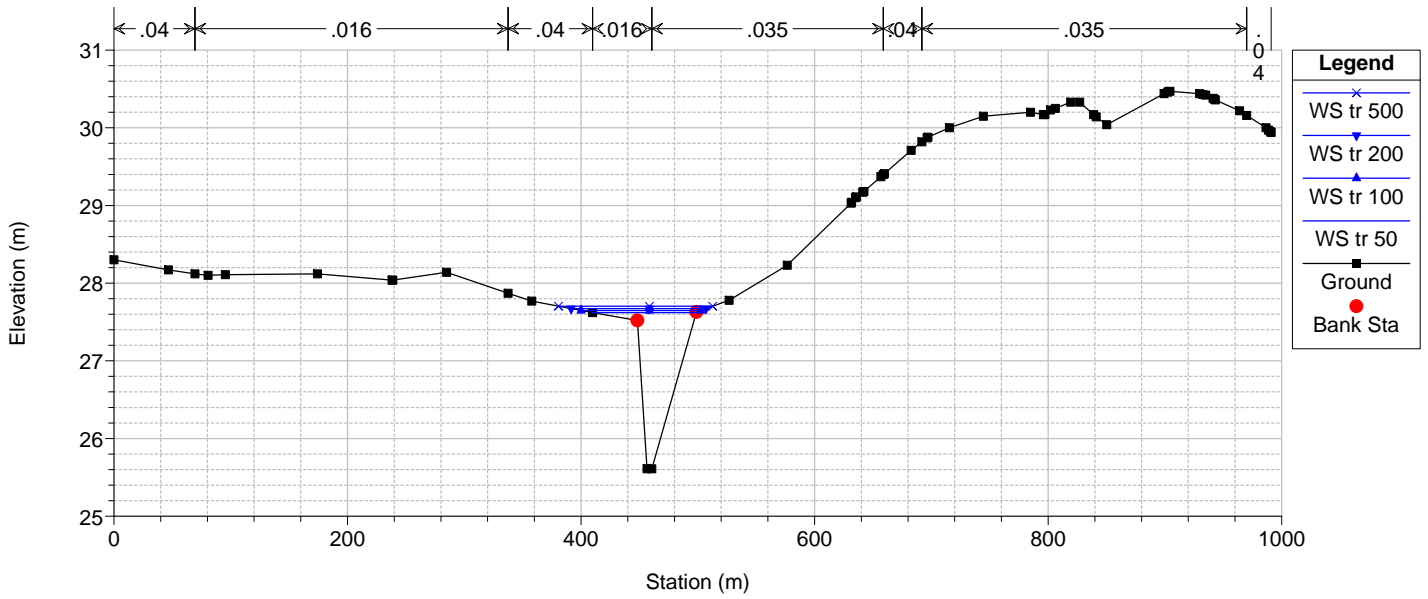
River = Can di Bonifica Reach = Asta RS = 2976.972 Culv COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

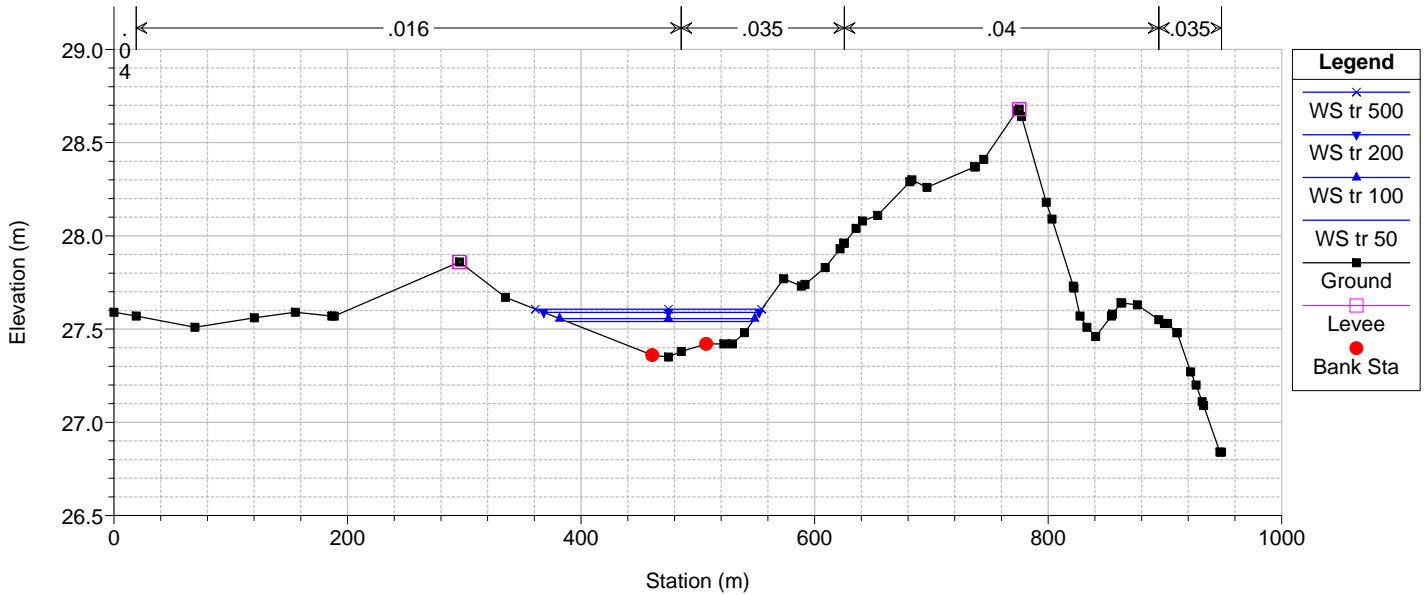
River = Can di Bonifica Reach = Asta RS = 2950.516 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

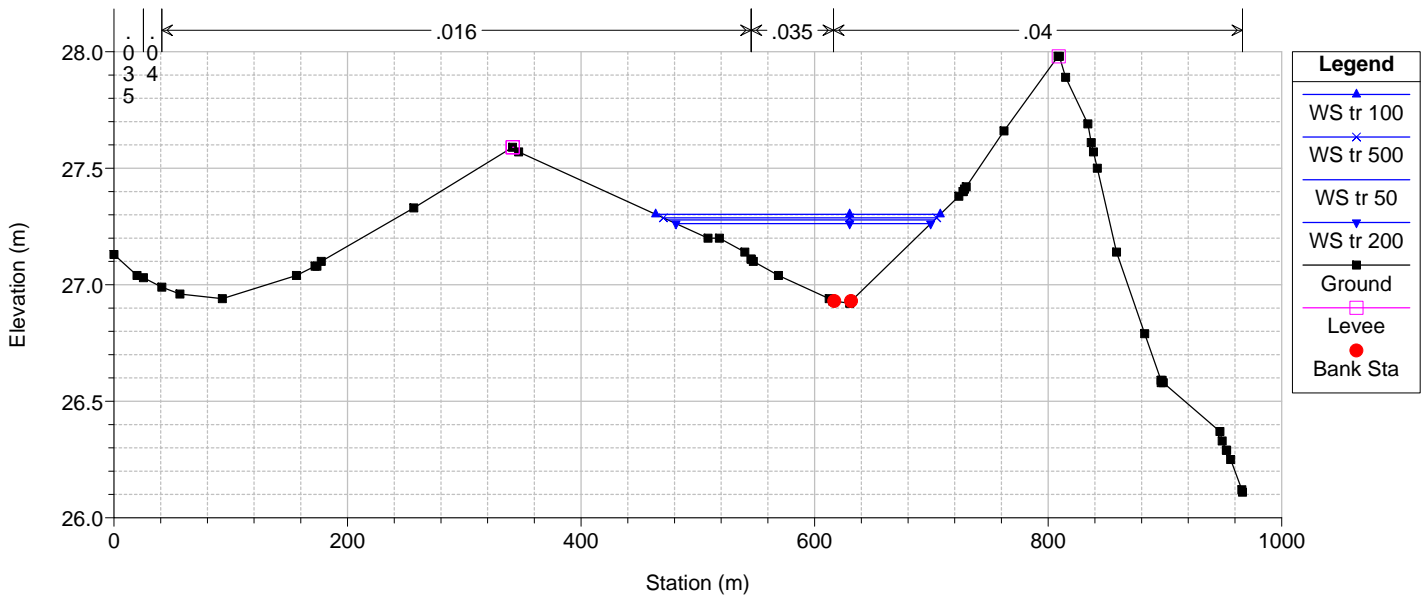
River = Can di Bonifica Reach = Asta RS = 2805.869 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

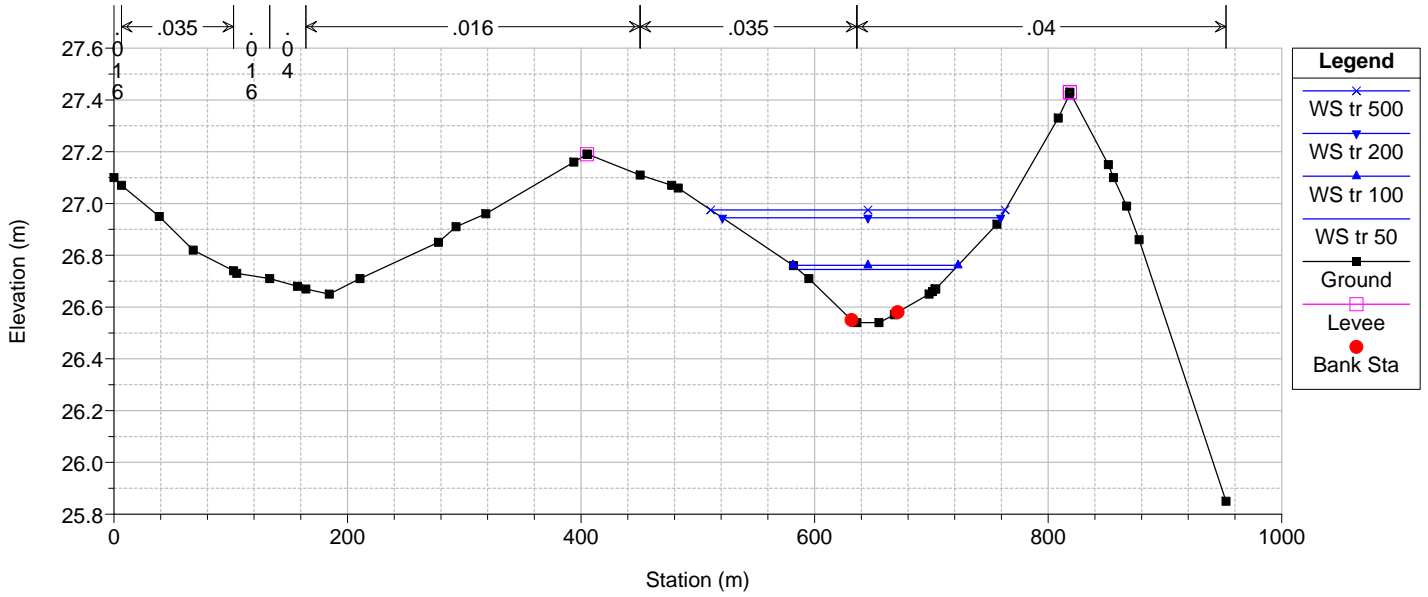
River = Can di Bonifica Reach = Asta RS = 2718.334 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

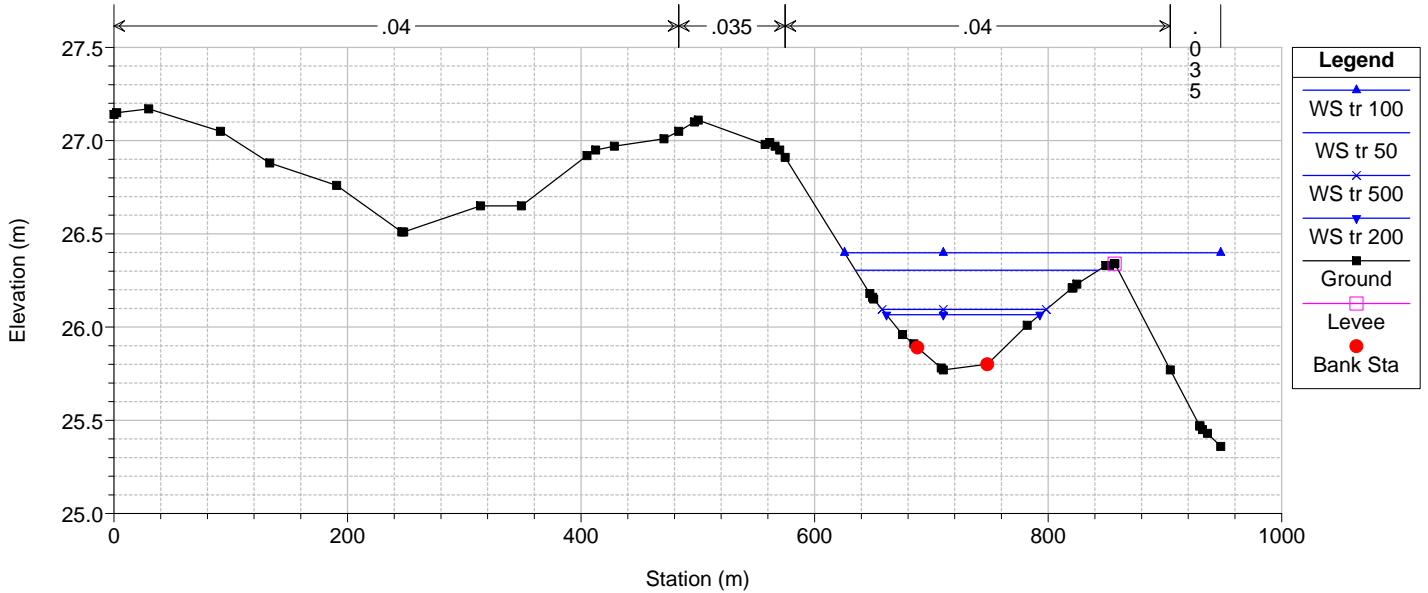
River = Can di Bonifica Reach = Asta RS = 2591.327 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

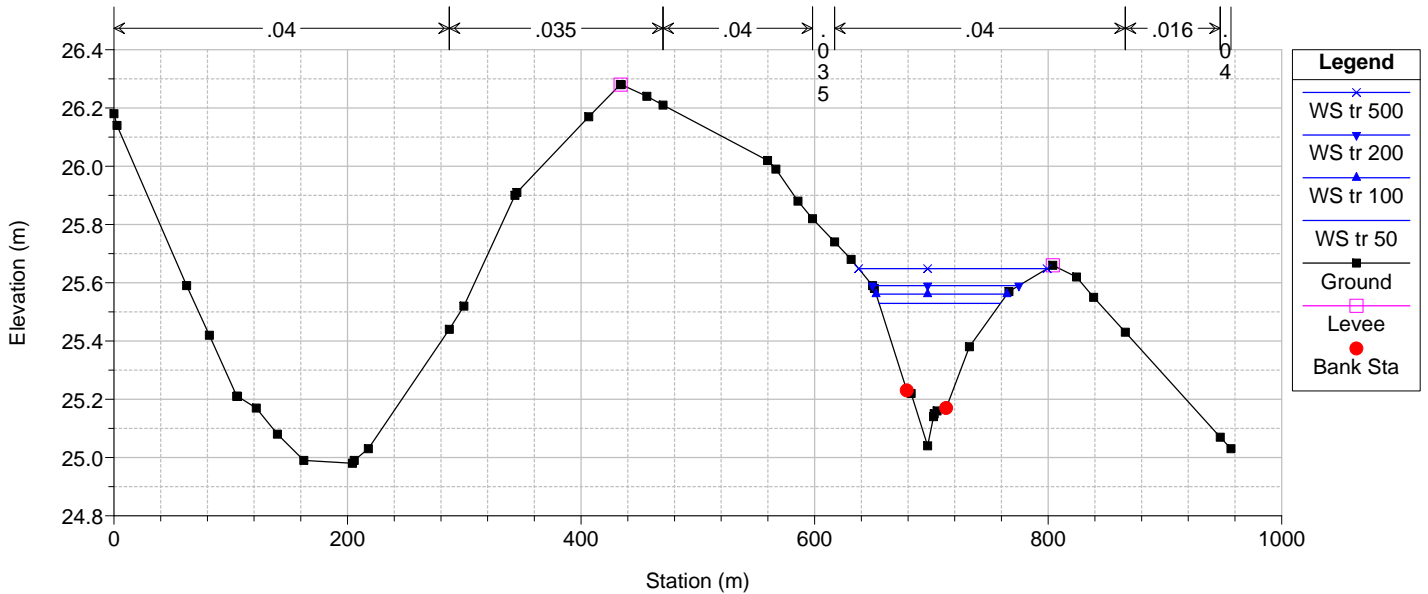
River = Can di Bonifica Reach = Asta RS = 2433.408 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

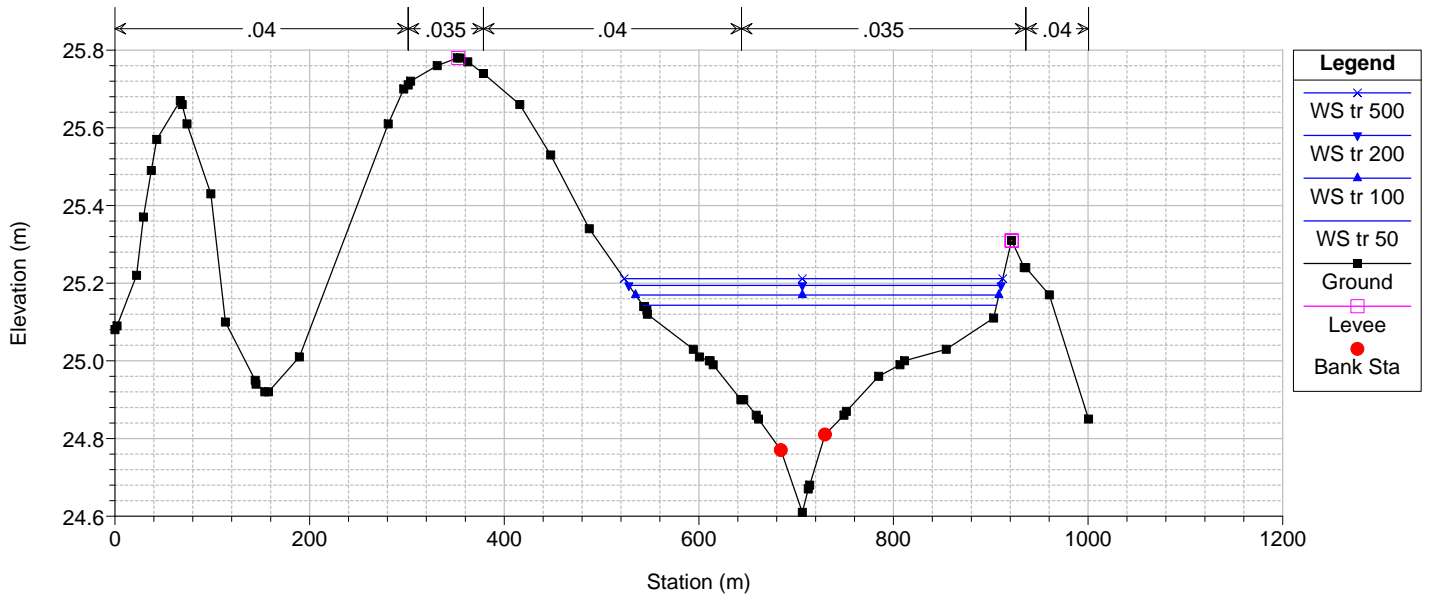
River = Can di Bonifica Reach = Asta RS = 2015.113 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

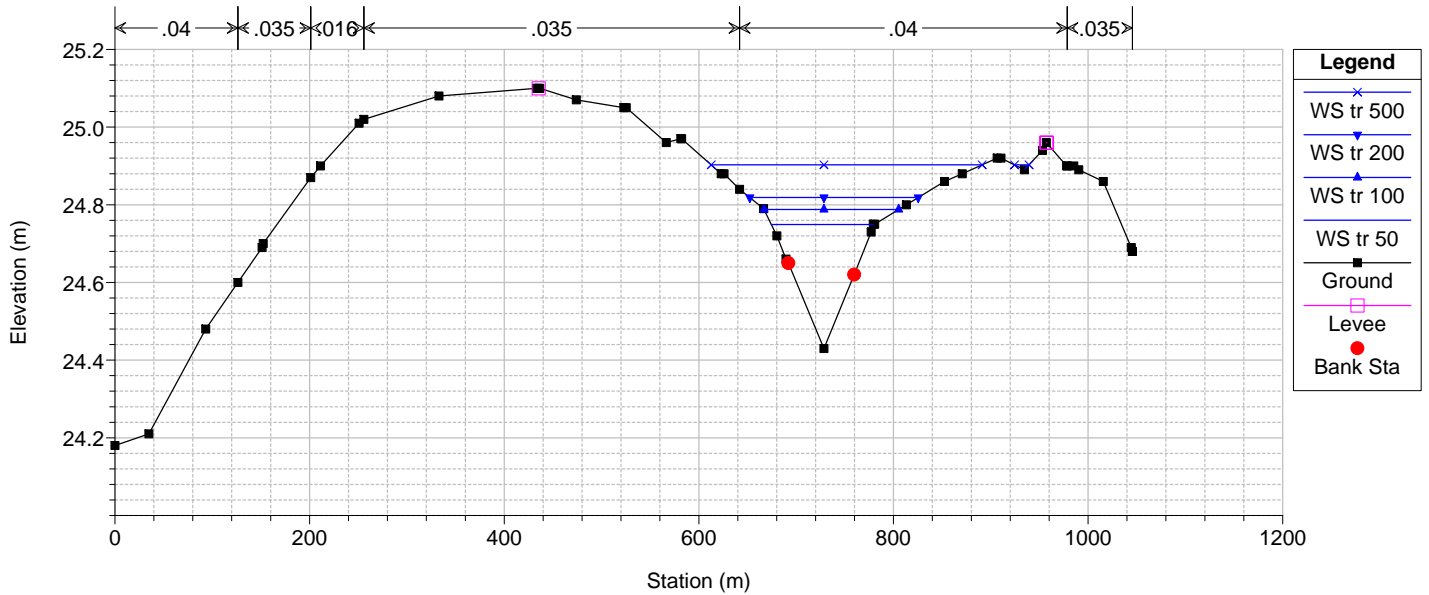
River = Can di Bonifica Reach = Asta RS = 1777.132 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

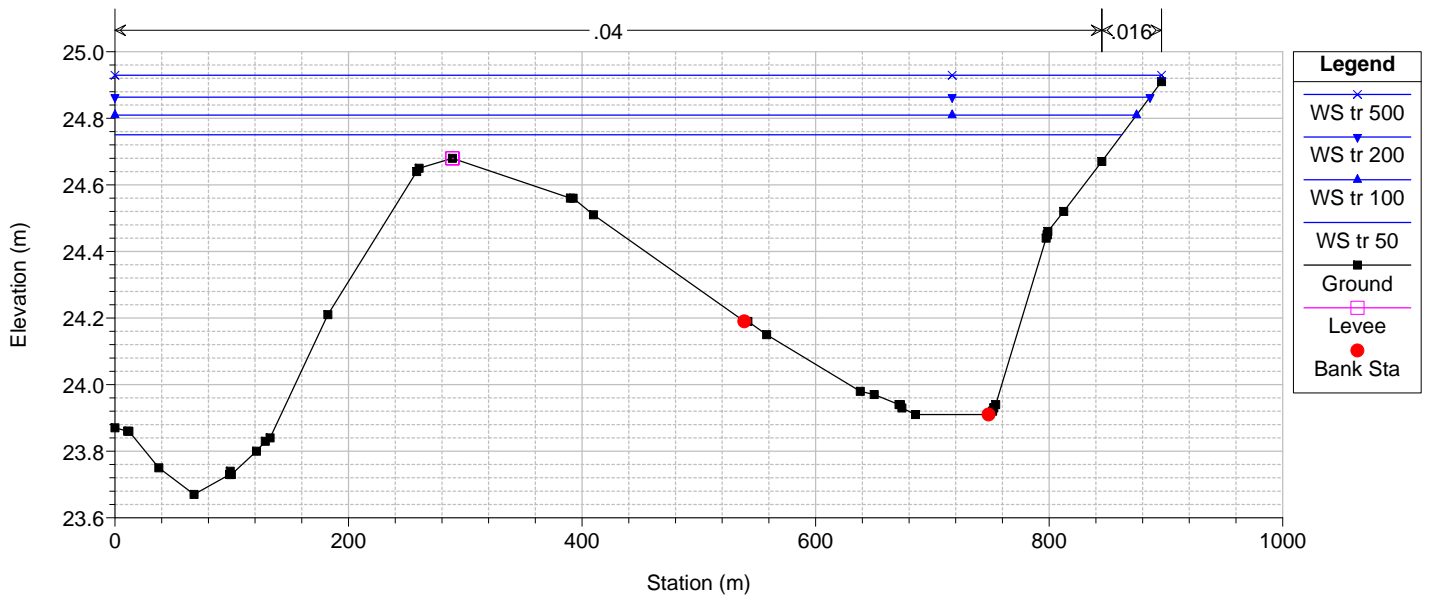
River = Can di Bonifica Reach = Asta RS = 1642.48 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

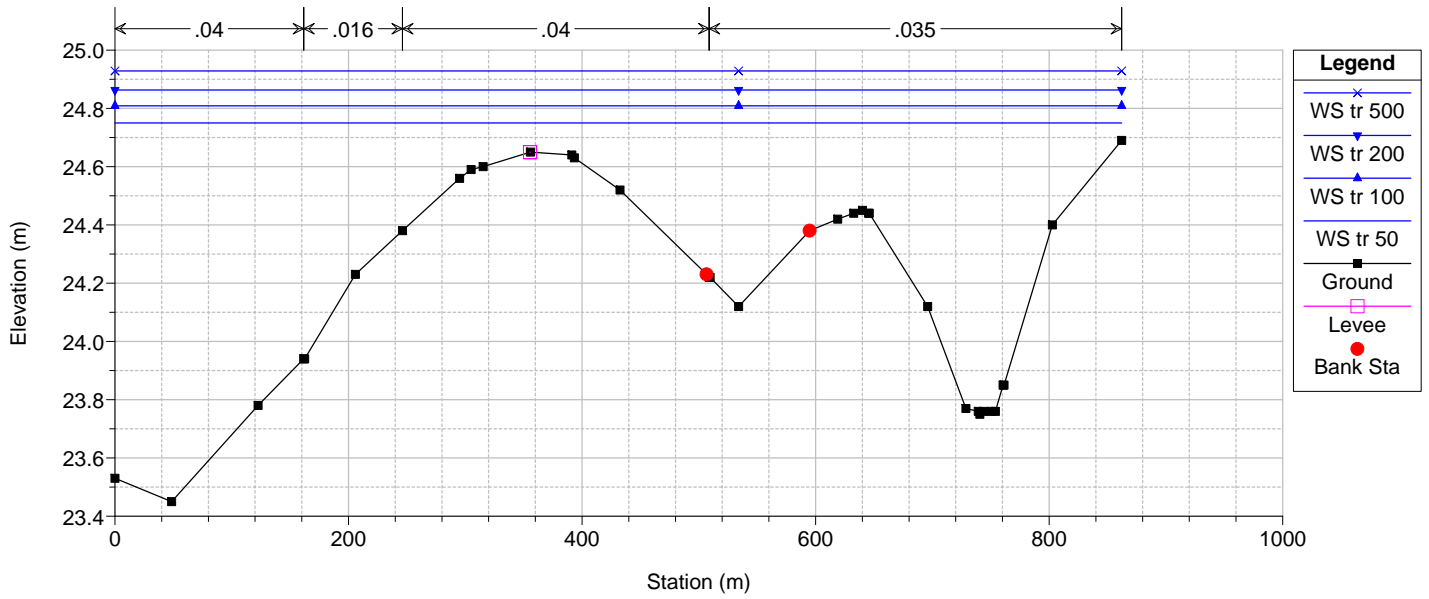
River = Can di Bonifica Reach = Asta RS = 1439.523 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

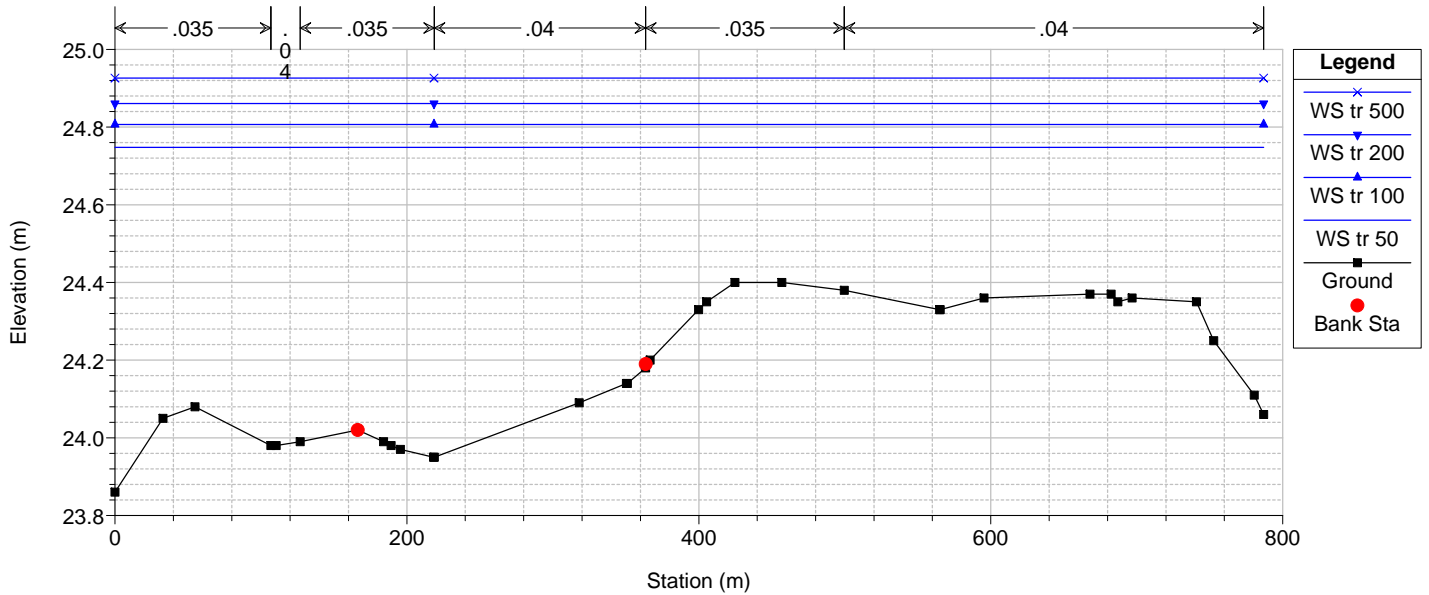
River = Can di Bonifica Reach = Asta RS = 1315.193 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

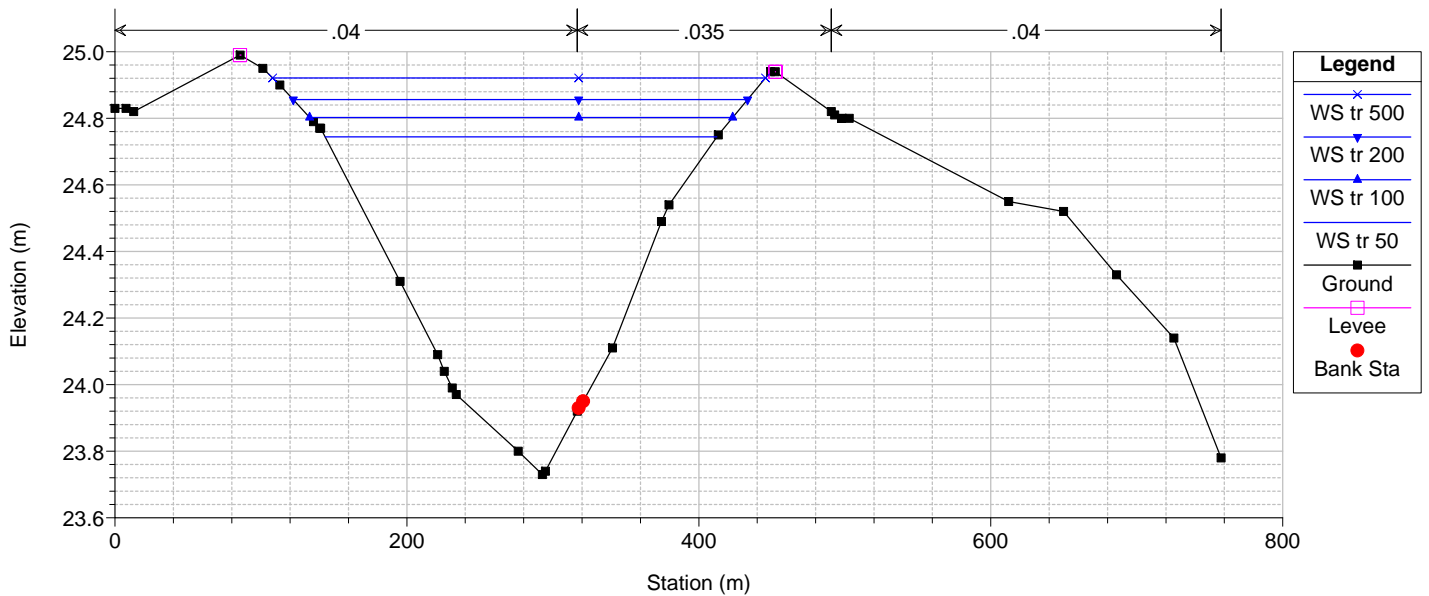
River = Can di Bonifica Reach = Asta RS = 967.8403 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

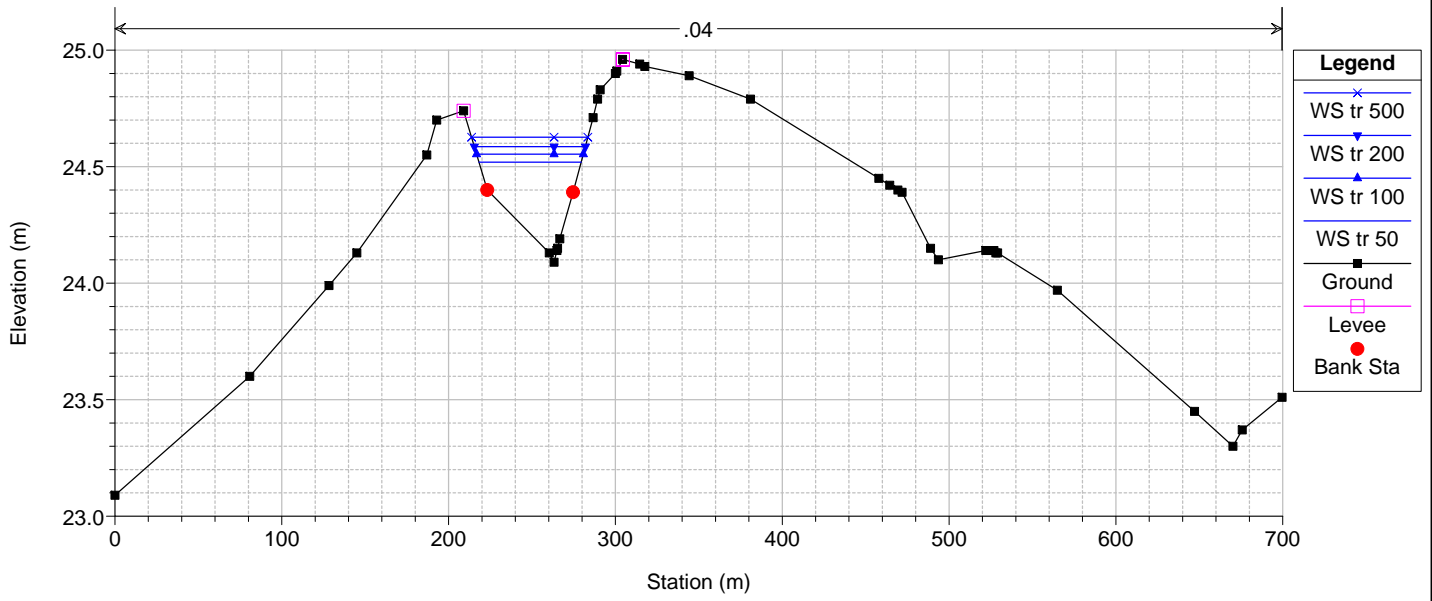
River = Can di Bonifica Reach = Asta RS = 796.602 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

River = Can di Bonifica Reach = Asta RS = 434.3015 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
Asta	4556.279	tr 50	17.06	36.30	36.67	36.52	36.69	0.002827	0.66	29.77	124.66	0.36
Asta	4556.279	tr 100	20.46	36.30	36.70	36.55	36.72	0.002789	0.70	34.23	132.68	0.36
Asta	4556.279	tr 200	23.91	36.30	36.74	36.58	36.76	0.002759	0.73	38.68	140.39	0.36
Asta	4556.279	tr 500	28.60	36.30	36.78	36.60	36.80	0.002719	0.78	44.62	148.07	0.37
Asta	4479.308	tr 50	17.06	35.98	36.40		36.44	0.003850	0.83	22.61	93.29	0.47
Asta	4479.308	tr 100	20.46	35.98	36.43		36.47	0.003909	0.89	25.75	99.69	0.48
Asta	4479.308	tr 200	23.91	35.98	36.46		36.51	0.003936	0.94	28.90	105.73	0.48
Asta	4479.308	tr 500	28.60	35.98	36.50		36.55	0.003969	1.01	32.99	111.70	0.49
Asta	4412.439	tr 50	17.06	35.75	36.20		36.22	0.002666	0.79	28.73	123.44	0.39
Asta	4412.439	tr 100	20.46	35.75	36.23		36.26	0.002697	0.83	32.95	131.59	0.40
Asta	4412.439	tr 200	23.91	35.75	36.26		36.29	0.002692	0.87	37.13	136.27	0.41
Asta	4412.439	tr 500	28.60	35.75	36.30		36.33	0.002718	0.92	42.25	141.03	0.41
Asta	4357.42	tr 50	17.06	35.53	35.82	35.81	35.91	0.017208	1.47	13.37	70.98	0.92
Asta	4357.42	tr 100	20.46	35.53	35.84	35.84	35.95	0.016365	1.54	15.51	75.47	0.91
Asta	4357.42	tr 200	23.91	35.53	35.87	35.87	35.98	0.016125	1.62	17.45	79.34	0.92
Asta	4357.42	tr 500	28.60	35.53	35.90	35.90	36.02	0.015303	1.69	20.23	84.22	0.91
Asta	4180.058	tr 50	17.06	34.52	34.90		34.92	0.002655	0.67	27.57	118.45	0.39
Asta	4180.058	tr 100	20.46	34.52	34.92		34.95	0.002721	0.72	31.18	131.66	0.40
Asta	4180.058	tr 200	23.91	34.52	34.95	34.80	34.98	0.002733	0.76	35.09	145.80	0.40
Asta	4180.058	tr 500	28.60	34.52	34.99		35.02	0.002818	0.82	40.24	161.59	0.41
Asta	4061.529	tr 50	17.06	33.87	34.19	34.19	34.28	0.015346	1.47	14.27	84.68	0.91
Asta	4061.529	tr 100	20.46	33.87	34.22	34.22	34.31	0.014498	1.53	16.72	91.33	0.90
Asta	4061.529	tr 200	23.91	33.87	34.24	34.24	34.34	0.014388	1.60	18.85	96.41	0.90
Asta	4061.529	tr 500	28.60	33.87	34.28	34.28	34.38	0.013381	1.65	22.14	104.13	0.89
Asta	3917.859	tr 50	17.06	32.96	34.18	33.29	34.18	0.000047	0.19	114.22	161.39	0.06
Asta	3917.859	tr 100	20.46	32.96	34.20	33.32	34.20	0.000062	0.22	117.45	162.93	0.06
Asta	3917.859	tr 200	23.91	32.96	34.22	33.35	34.22	0.000079	0.25	120.63	164.42	0.07
Asta	3917.859	tr 500	28.60	32.96	34.25	33.38	34.25	0.000103	0.29	124.61	166.49	0.08
Asta	3862.325	tr 50	17.06	32.65	34.18	33.07	34.18	0.000025	0.15	138.83	169.59	0.04
Asta	3862.325	tr 100	20.46	32.65	34.20	33.10	34.20	0.000033	0.17	142.14	171.39	0.05
Asta	3862.325	tr 200	23.91	32.65	34.22	33.14	34.22	0.000043	0.20	145.38	173.14	0.05
Asta	3862.325	tr 500	28.60	32.65	34.24	33.17	34.25	0.000057	0.23	149.43	175.30	0.06
Asta	3813.629	tr 50	17.06	32.42	34.18	32.84	34.18	0.000011	0.11	177.88	189.53	0.03
Asta	3813.629	tr 100	20.46	32.42	34.20	32.87	34.20	0.000015	0.13	181.54	191.12	0.04
Asta	3813.629	tr 200	23.91	32.42	34.22	32.90	34.22	0.000019	0.15	185.12	192.66	0.04
Asta	3813.629	tr 500	28.60	32.42	34.24	32.94	34.24	0.000025	0.17	189.55	194.56	0.05
Asta	3743.607	tr 50	17.06	31.70	34.18	32.37	34.18	0.000004	0.07	254.09	224.43	0.02
Asta	3743.607	tr 100	20.46	31.70	34.20	32.42	34.20	0.000005	0.09	258.39	225.80	0.02
Asta	3743.607	tr 200	23.91	31.70	34.22	32.46	34.22	0.000007	0.10	262.59	227.14	0.03
Asta	3743.607	tr 500	28.60	31.70	34.24	32.51	34.24	0.000009	0.12	267.79	228.77	0.03
Asta	3730.037		Bridge									
Asta	3705.985	tr 50	17.06	31.60	31.95	32.19	33.19	0.288221	4.93	3.46	18.98	3.69
Asta	3705.985	tr 100	20.46	31.60	31.98	32.23	33.23	0.273903	4.95	4.14	21.72	3.62
Asta	3705.985	tr 200	23.91	31.60	32.01	32.26	33.24	0.259307	4.91	4.87	24.81	3.54
Asta	3705.985	tr 500	28.60	31.60	32.05	32.31	33.31	0.250876	4.97	5.75	28.09	3.51
Asta	3574.611	tr 50	17.06	31.32	31.69	31.69	31.82	0.003506	1.56	11.37	50.02	0.97
Asta	3574.611	tr 100	20.46	31.32	31.73	31.73	31.86	0.003325	1.64	13.16	53.52	0.96
Asta	3574.611	tr 200	23.91	31.32	31.76	31.76	31.90	0.003145	1.70	15.01	56.86	0.94
Asta	3574.611	tr 500	28.60	31.32	31.80	31.80	31.96	0.003061	1.80	17.28	60.70	0.94
Asta	3511.05	tr 50	17.06	31.01	31.45	31.42	31.55	0.002504	1.41	12.94	54.34	0.82
Asta	3511.05	tr 100	20.46	31.01	31.42	31.46	31.60	0.005082	1.89	11.38	51.25	1.15
Asta	3511.05	tr 200	23.91	31.01	31.44	31.49	31.65	0.005274	2.02	12.61	53.70	1.18
Asta	3511.05	tr 500	28.60	31.01	31.48	31.53	31.70	0.005203	2.14	14.49	57.29	1.18
Asta	3435.676	tr 50	17.06	30.67	31.07	31.07	31.14	0.017455	1.27	15.68	100.64	0.83
Asta	3435.676	tr 100	20.46	30.67	31.09	31.09	31.17	0.018309	1.34	17.57	103.56	0.86
Asta	3435.676	tr 200	23.91	30.67	31.11	31.11	31.19	0.018248	1.41	19.51	106.40	0.87
Asta	3435.676	tr 500	28.60	30.67	31.13	31.13	31.23	0.017990	1.48	22.05	110.01	0.87
Asta	3370.133	tr 50	17.06	30.20	30.64	30.44	30.65	0.001808	0.56	33.83	114.70	0.29
Asta	3370.133	tr 100	20.46	30.20	30.67	30.46	30.69	0.001816	0.60	38.30	119.49	0.29
Asta	3370.133	tr 200	23.91	30.20	30.71	30.48	30.73	0.001826	0.64	42.55	123.01	0.30
Asta	3370.133	tr 500	28.60	30.20	30.75	30.51	30.77	0.001841	0.68	47.97	127.10	0.31
Asta	3291.005	tr 50	17.06	29.96	30.39	30.28	30.42	0.005232	0.82	21.32	82.08	0.49
Asta	3291.005	tr 100	20.46	29.96	30.42	30.31	30.46	0.005473	0.89	23.61	84.02	0.51
Asta	3291.005	tr 200	23.91	29.96	30.44	30.33	30.49	0.005680	0.96	25.81	85.83	0.52
Asta	3291.005	tr 500	28.60	29.96	30.48	30.36	30.53	0.005864	1.03	28.70	88.17	0.54
Asta	3220.07	tr 50	17.06	29.68	29.98		30.01	0.006416	0.80	22.56	113.68	0.54

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
Asta	3220.07	tr 100	20.46	29.68	30.01		30.04	0.006184	0.84	25.74	118.43	0.54
Asta	3220.07	tr 200	23.91	29.68	30.03		30.07	0.006017	0.89	28.82	122.87	0.54
Asta	3220.07	tr 500	28.60	29.68	30.06		30.11	0.005966	0.95	32.61	128.11	0.54
Asta	3145.198	tr 50	17.06	29.29	29.72		29.73	0.002334	0.54	32.49	138.67	0.33
Asta	3145.198	tr 100	20.46	29.29	29.75		29.77	0.002383	0.58	36.60	147.39	0.33
Asta	3145.198	tr 200	23.91	29.29	29.78		29.80	0.002412	0.62	40.69	154.91	0.34
Asta	3145.198	tr 500	28.60	29.29	29.81		29.83	0.002413	0.66	46.22	164.45	0.35
Asta	3046.504	tr 50	17.06	28.80	29.09	29.09	29.18	0.027033	1.31	13.44	84.27	0.99
Asta	3046.504	tr 100	20.46	28.80	29.11	29.11	29.21	0.025098	1.38	15.53	89.02	0.97
Asta	3046.504	tr 200	23.91	28.80	29.14	29.14	29.24	0.023698	1.43	17.59	93.47	0.96
Asta	3046.504	tr 500	28.60	28.80	29.16	29.16	29.27	0.023443	1.53	19.96	98.33	0.97
Asta	3006.139	tr 50	17.06	25.84	27.93	26.34	27.93	0.000045	0.20	86.48	125.90	0.06
Asta	3006.139	tr 100	20.46	25.84	28.09	26.40	28.09	0.000038	0.20	110.95	185.38	0.05
Asta	3006.139	tr 200	23.91	25.84	28.17	26.45	28.17	0.000038	0.21	127.41	216.39	0.06
Asta	3006.139	tr 500	28.60	25.84	28.21	26.51	28.21	0.000048	0.24	135.57	230.20	0.06
Asta	2976.972		Culvert									
Asta	2950.516	tr 50	17.06	25.61	27.62		27.63	0.000051	0.31	57.01	89.14	0.09
Asta	2950.516	tr 100	20.46	25.61	27.65		27.65	0.000067	0.36	59.58	102.13	0.11
Asta	2950.516	tr 200	23.91	25.61	27.67		27.68	0.000084	0.41	62.28	115.40	0.12
Asta	2950.516	tr 500	28.60	25.61	27.70		27.72	0.000109	0.47	66.12	132.00	0.14
Asta	2805.869	tr 50	17.06	27.35	27.54	27.54	27.60	0.006049	1.17	17.96	159.21	0.93
Asta	2805.869	tr 100	20.46	27.35	27.56	27.56	27.62	0.006088	1.24	20.43	167.11	0.94
Asta	2805.869	tr 200	23.91	27.35	27.59	27.57	27.64	0.004119	1.13	26.34	184.61	0.79
Asta	2805.869	tr 500	28.60	27.35	27.61	27.59	27.66	0.004228	1.20	29.69	193.84	0.80
Asta	2718.334	tr 50	17.06	26.92	27.28	27.14	27.29	0.001508	0.48	41.58	228.07	0.26
Asta	2718.334	tr 100	20.46	26.92	27.30	27.15	27.31	0.001488	0.50	47.32	243.75	0.26
Asta	2718.334	tr 200	23.91	26.92	27.26	27.17	27.28	0.003810	0.75	38.13	218.13	0.41
Asta	2718.334	tr 500	28.60	26.92	27.29	27.19	27.31	0.003654	0.77	43.76	234.14	0.41
Asta	2591.327	tr 50	17.06	26.54	26.75	26.75	26.81	0.021395	1.26	16.71	133.68	0.91
Asta	2591.327	tr 100	20.46	26.54	26.76	26.76	26.83	0.021953	1.34	18.92	141.37	0.93
Asta	2591.327	tr 200	23.91	26.54	26.95	26.78	26.96	0.001833	0.59	54.00	238.25	0.30
Asta	2591.327	tr 500	28.60	26.54	26.98	26.80	26.99	0.001846	0.62	61.42	252.07	0.30
Asta	2433.408	tr 50	21.78	25.77	26.30	26.02	26.31	0.000739	0.43	64.54	208.21	0.19
Asta	2433.408	tr 100	26.16	25.77	26.40	26.04	26.40	0.000126	0.20	139.01	322.16	0.08
Asta	2433.408	tr 200	30.60	25.77	26.07	26.07	26.16	0.020718	1.48	24.10	131.29	0.92
Asta	2433.408	tr 500	36.55	25.77	26.09	26.09	26.20	0.019653	1.55	27.99	140.53	0.91
Asta	2015.113	tr 50	21.78	25.04	25.53	25.46	25.58	0.007845	1.17	23.52	103.96	0.60
Asta	2015.113	tr 100	26.16	25.04	25.56	25.49	25.62	0.007981	1.25	26.97	112.22	0.62
Asta	2015.113	tr 200	30.60	25.04	25.59	25.52	25.66	0.008272	1.33	30.43	125.25	0.63
Asta	2015.113	tr 500	36.55	25.04	25.65	25.56	25.71	0.007025	1.33	38.75	161.38	0.60
Asta	1777.132	tr 50	21.78	24.61	25.14	24.96	25.15	0.000759	0.46	71.80	363.50	0.22
Asta	1777.132	tr 100	26.16	24.61	25.17	24.98	25.18	0.000775	0.48	81.59	373.38	0.22
Asta	1777.132	tr 200	30.60	24.61	25.19	25.00	25.20	0.000787	0.50	90.94	382.57	0.23
Asta	1777.132	tr 500	36.55	24.61	25.21	25.04	25.22	0.000923	0.55	97.59	388.99	0.25
Asta	1642.48	tr 50	21.78	24.43	24.75	24.75	24.84	0.024211	1.40	16.80	104.78	0.96
Asta	1642.48	tr 100	26.16	24.43	24.79	24.79	24.88	0.019069	1.39	21.49	138.28	0.88
Asta	1642.48	tr 200	30.60	24.43	24.82	24.82	24.91	0.016530	1.39	26.31	173.09	0.83
Asta	1642.48	tr 500	36.55	24.43	24.90	24.85	24.95	0.007129	1.09	45.11	293.19	0.57
Asta	1439.523	tr 50	21.78	23.91	24.75	24.08	24.75	0.000008	0.06	459.63	862.25	0.02
Asta	1439.523	tr 100	26.16	23.91	24.81	24.09	24.81	0.000008	0.06	510.78	874.81	0.02
Asta	1439.523	tr 200	30.60	23.91	24.86	24.11	24.86	0.000008	0.06	558.59	886.40	0.02
Asta	1439.523	tr 500	36.55	23.91	24.93	24.13	24.93	0.000008	0.07	617.16	896.29	0.02
Asta	1315.193	tr 50	21.78	24.12	24.75	24.07	24.75	0.000004	0.04	470.78	862.13	0.02
Asta	1315.193	tr 100	26.16	24.12	24.81	24.10	24.81	0.000004	0.04	521.53	862.13	0.02
Asta	1315.193	tr 200	30.60	24.12	24.86	24.13	24.86	0.000005	0.05	568.31	862.13	0.02
Asta	1315.193	tr 500	36.55	24.12	24.93	24.17	24.93	0.000005	0.05	624.82	862.13	0.02
Asta	967.8403	tr 50	21.78	23.95	24.75		24.75	0.000007	0.06	437.06	786.96	0.02
Asta	967.8403	tr 100	26.16	23.95	24.81		24.81	0.000007	0.06	483.28	786.96	0.02
Asta	967.8403	tr 200	30.60	23.95	24.86		24.86	0.000008	0.06	525.90	786.96	0.02
Asta	967.8403	tr 500	36.55	23.95	24.93		24.93	0.000008	0.07	577.38	786.96	0.02
Asta	796.602	tr 50	21.78	23.93	24.74	24.04	24.75	0.000071	0.21	146.10	268.41	0.07
Asta	796.602	tr 100	26.16	23.93	24.80	24.06	24.80	0.000080	0.23	162.34	289.84	0.08
Asta	796.602	tr 200	30.60	23.93	24.86	24.08	24.86	0.000087	0.25	178.52	311.26	0.08
Asta	796.602	tr 500	36.55	23.93	24.92	24.11	24.92	0.000096	0.28	199.60	337.65	0.09
Asta	434.3015	tr 50	21.78	24.09	24.52	24.52	24.64	0.022398	1.55	14.39	61.28	0.96
Asta	434.3015	tr 100	26.16	24.09	24.55	24.55	24.69	0.021360	1.64	16.50	63.96	0.96

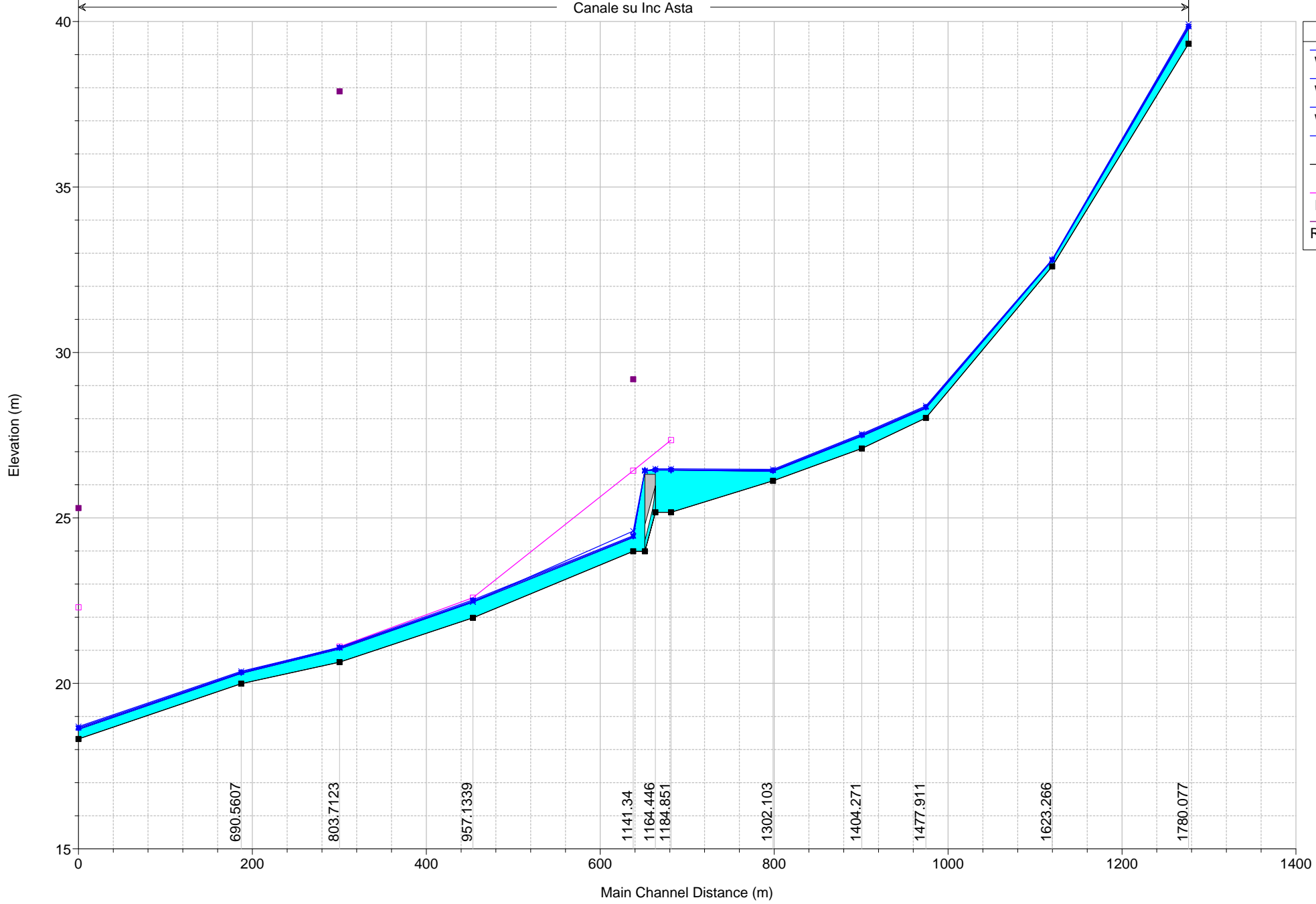
HEC-RAS Plan: Plan 04 River: Can di Bonifica Reach: Asta (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
Asta	434.3015	tr 200	30.60	24.09	24.59	24.59	24.73	0.020338	1.72	18.64	66.55	0.95
Asta	434.3015	tr 500	36.55	24.09	24.63	24.63	24.79	0.019329	1.81	21.39	69.74	0.94

urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE

Canale su Inc Asta



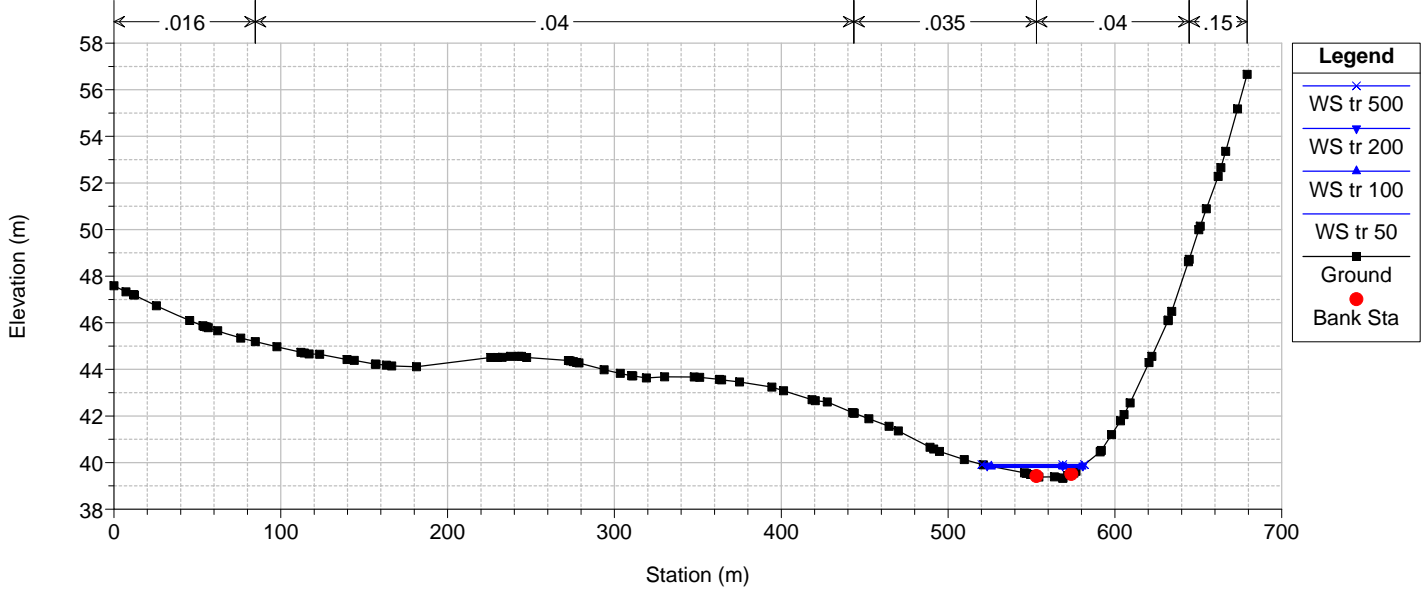
Legend

- WS tr 500
- WS tr 200
- WS tr 100
- WS tr 50
- Ground
- Left Levee
- Right Levee

urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

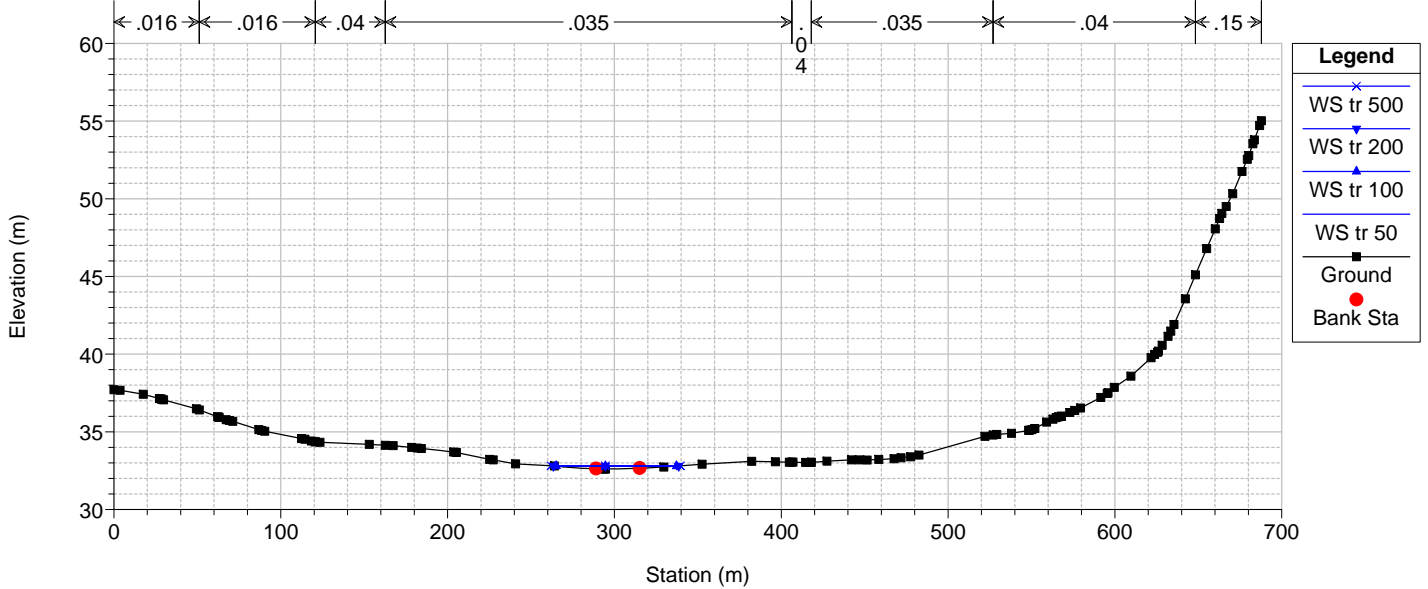
River = Canale su Inc Reach = Asta RS = 1780.077 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

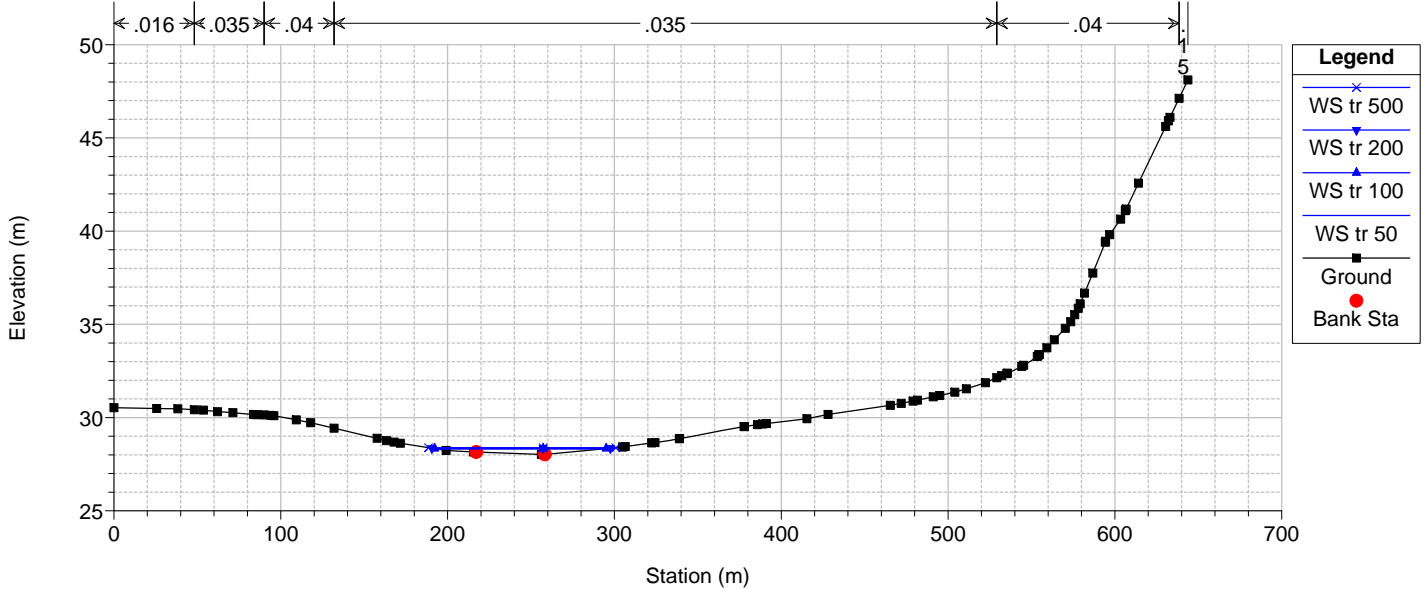
River = Canale su Inc Reach = Asta RS = 1623.266 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

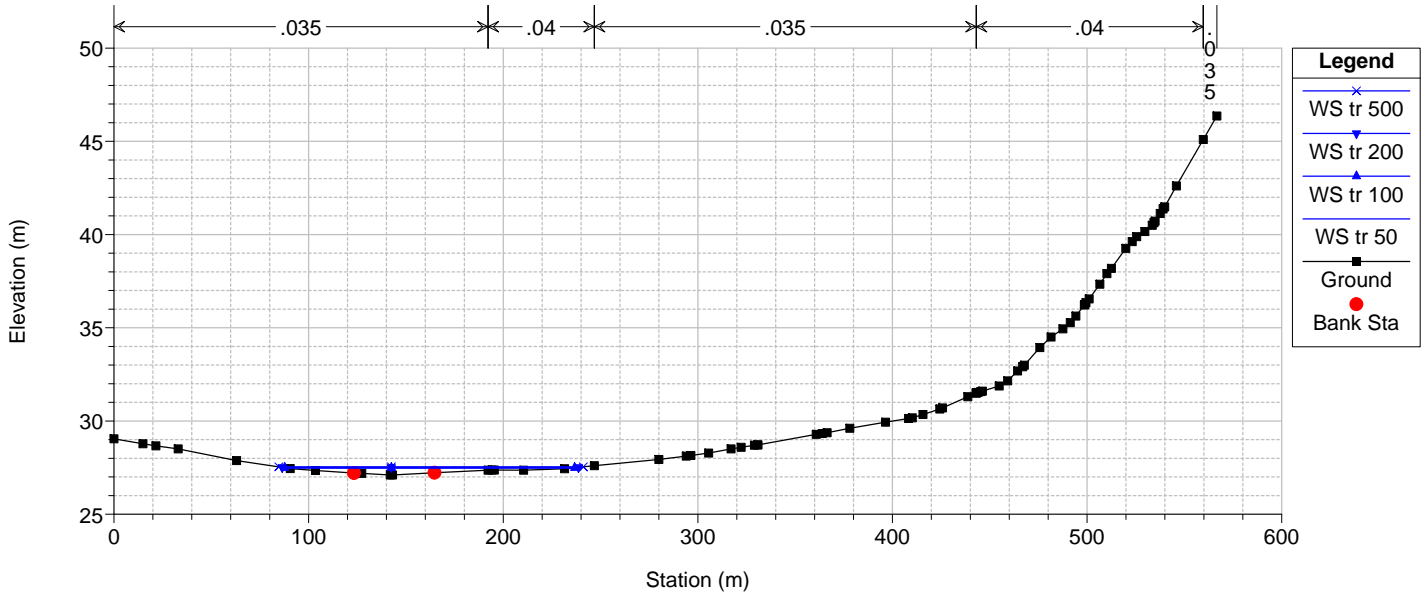
River = Canale su Inc Reach = Asta RS = 1477.911 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

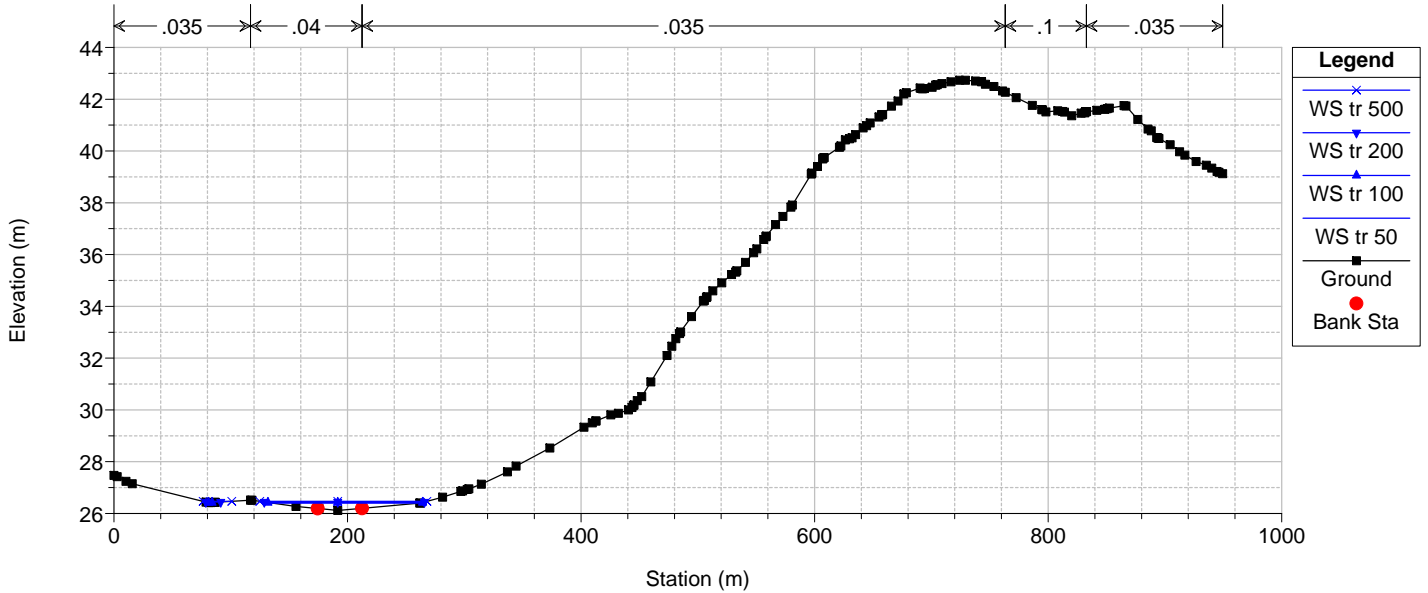
River = Canale su Inc Reach = Asta RS = 1404.271 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

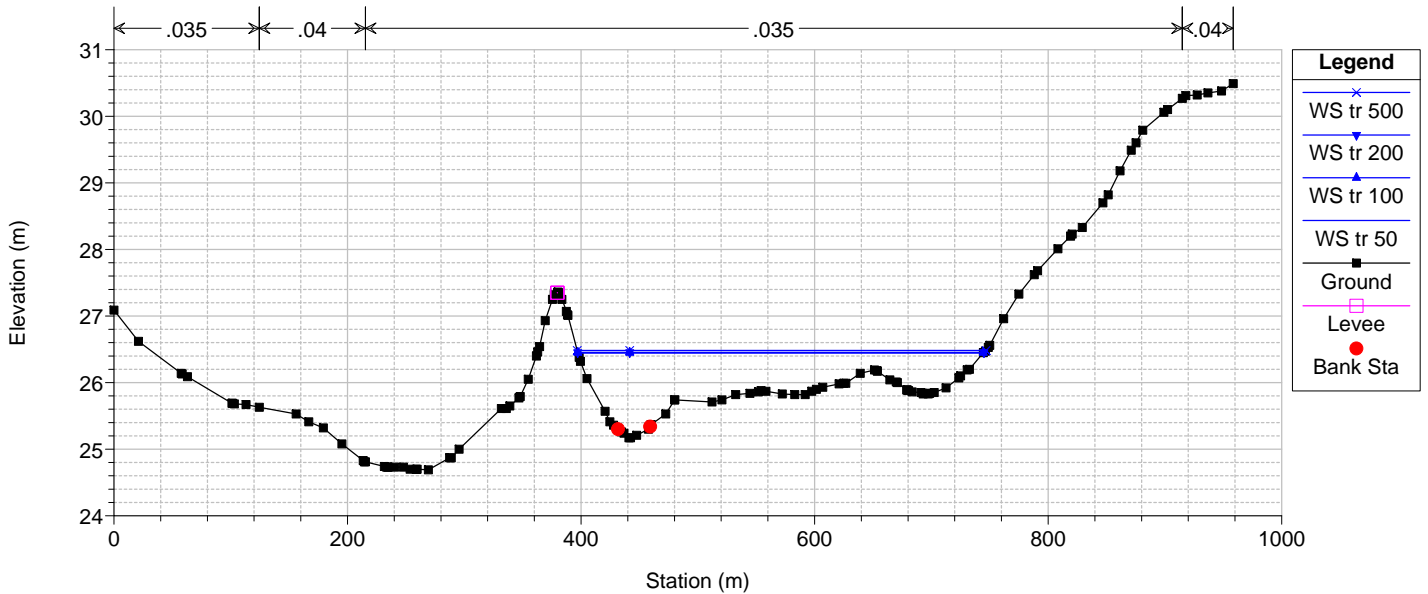
River = Canale su Inc Reach = Asta RS = 1302.103 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

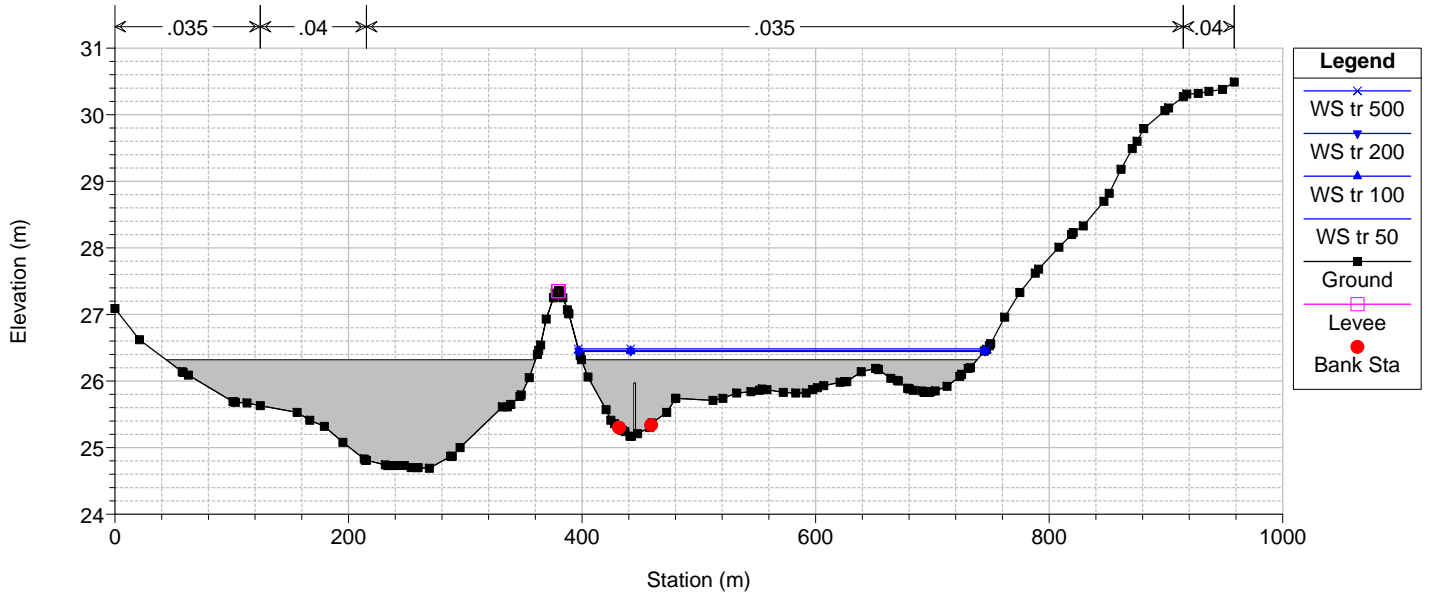
River = Canale su Inc Reach = Asta RS = 1184.851 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

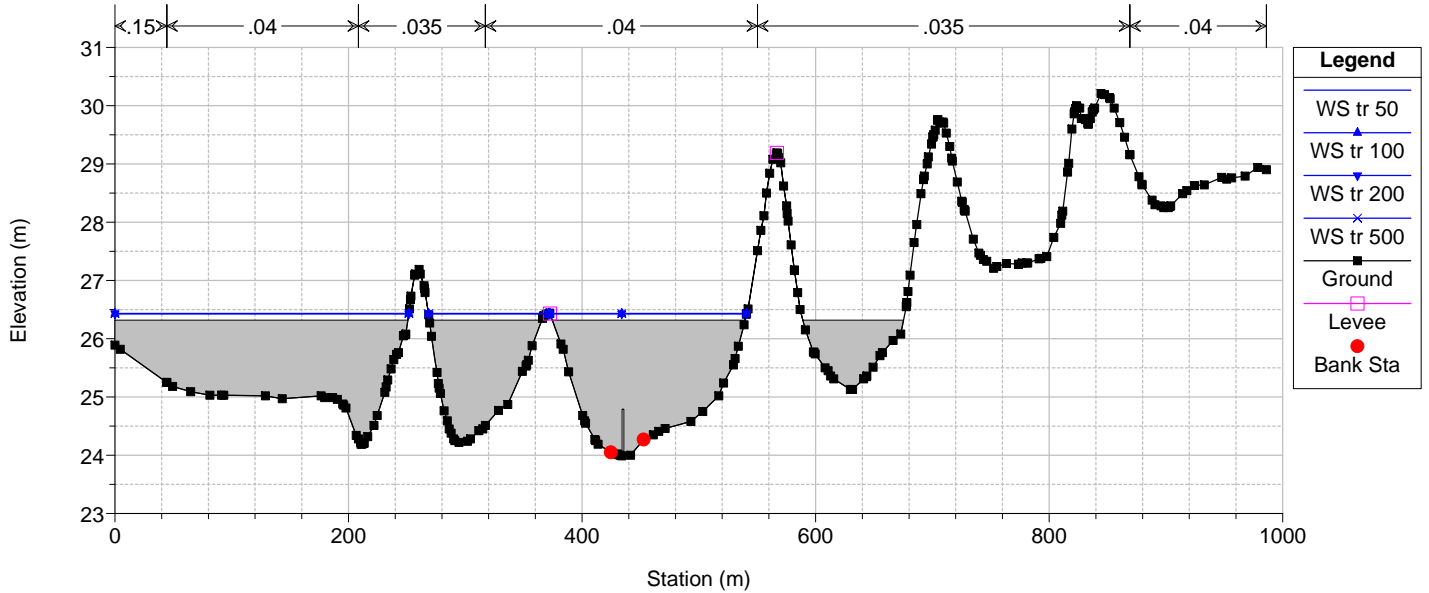
River = Canale su Inc Reach = Asta RS = 1164.446 Culv COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

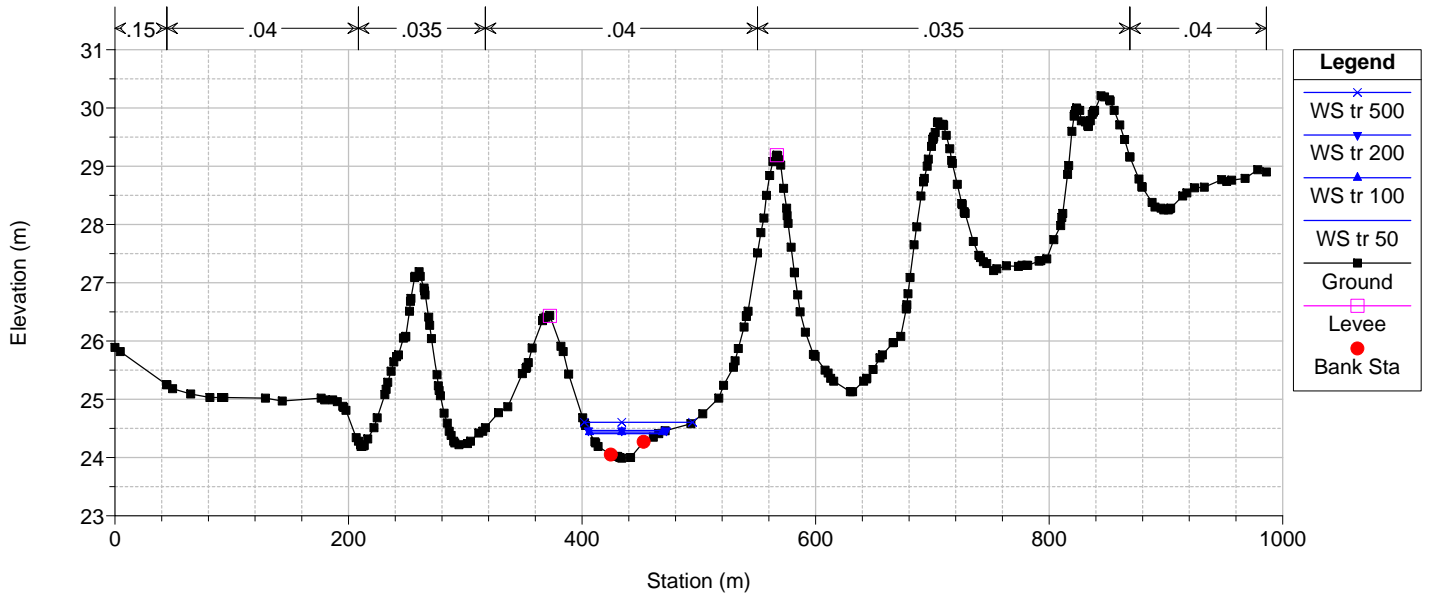
River = Canale su Inc Reach = Asta RS = 1164.446 Culv COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

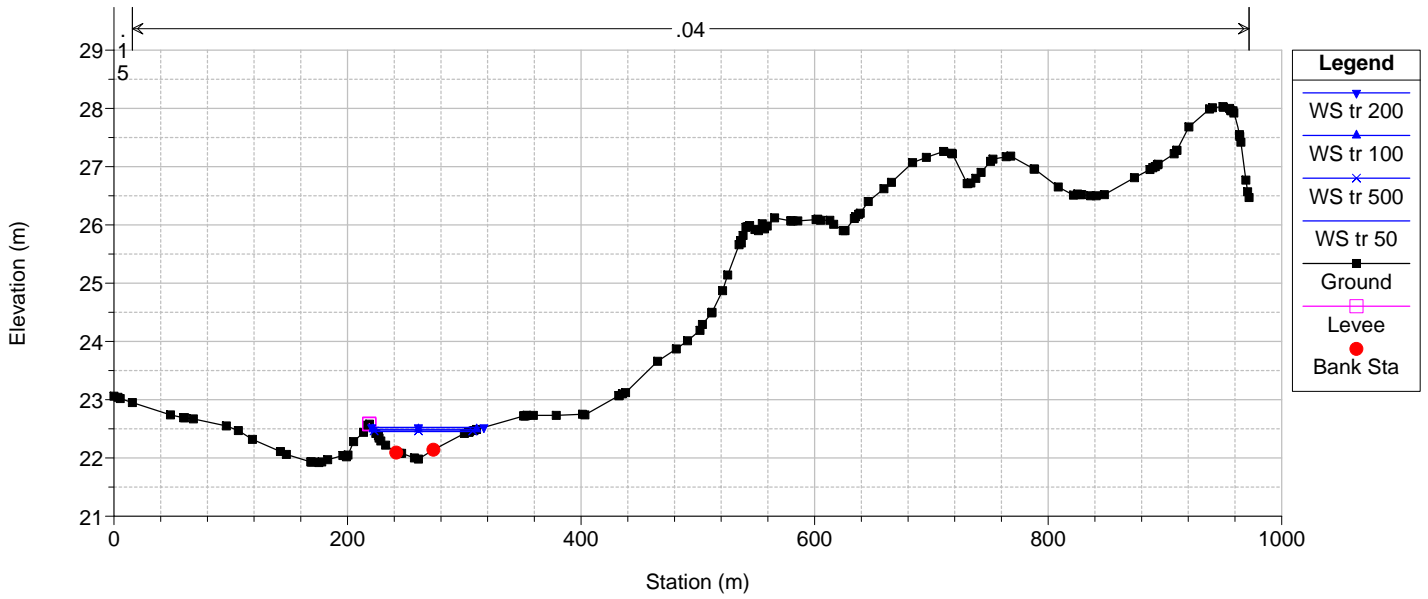
River = Canale su Inc Reach = Asta RS = 1141.34 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

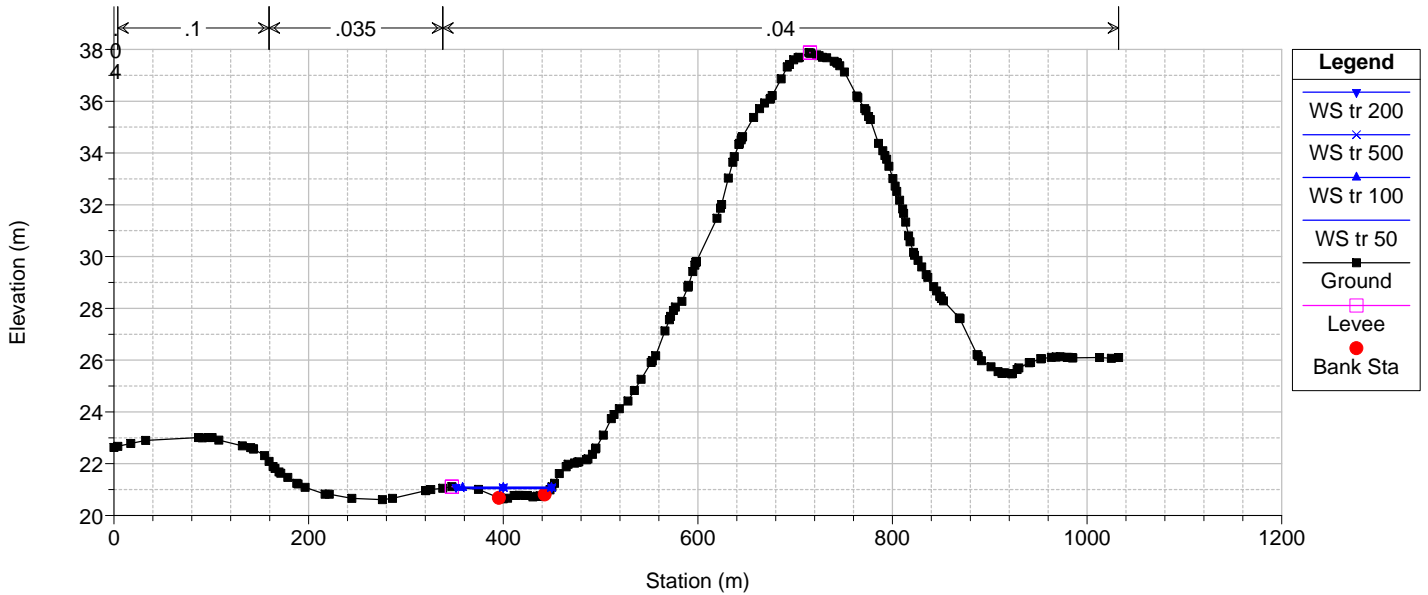
River = Canale su Inc Reach = Asta RS = 957.1339 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

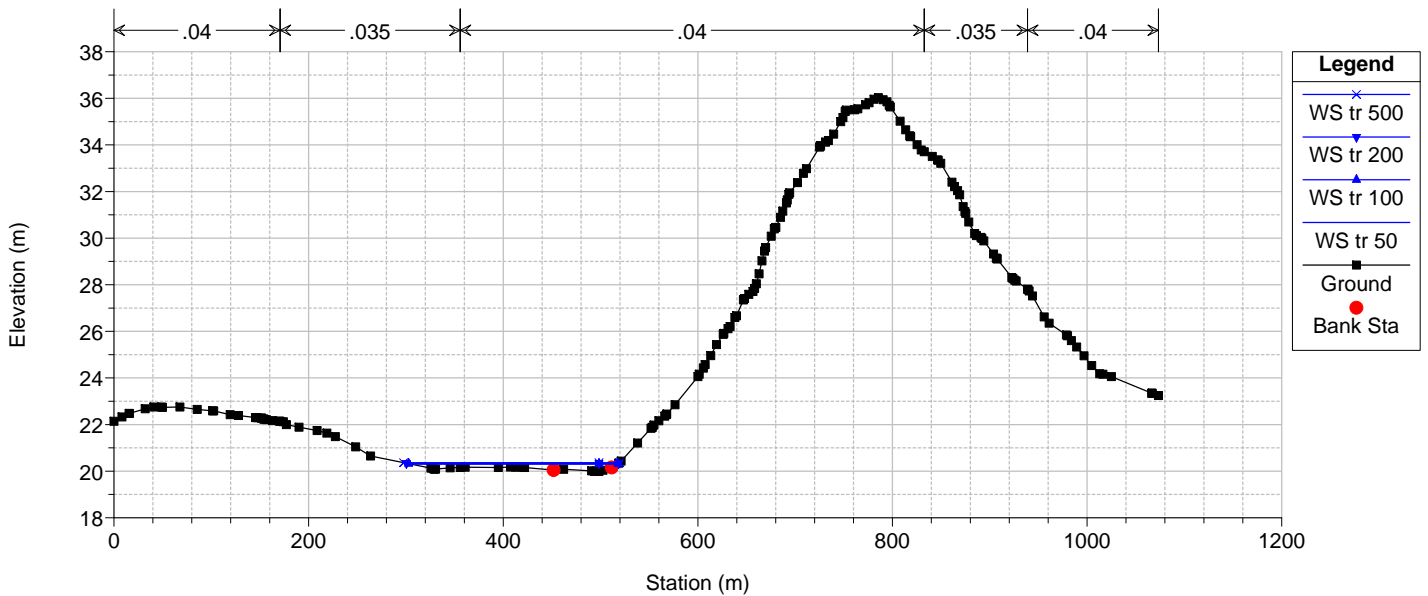
River = Canale su Inc Reach = Asta RS = 803.7123 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

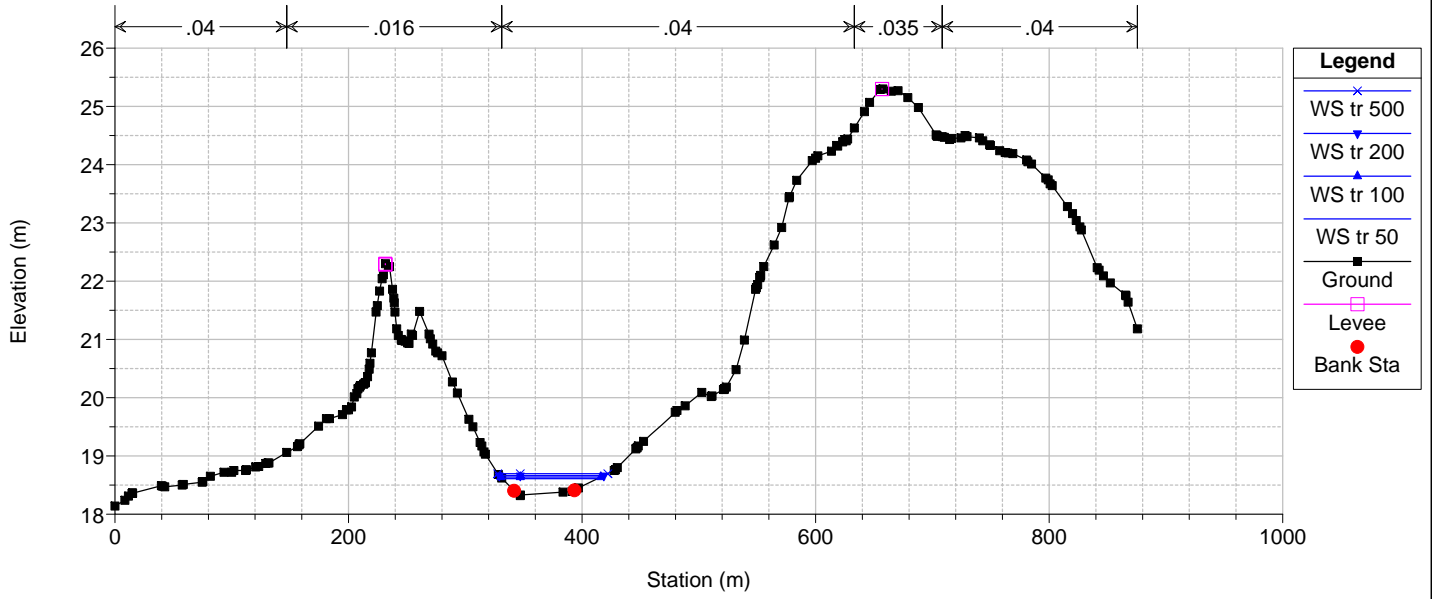
River = Canale su Inc Reach = Asta RS = 690.5607 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

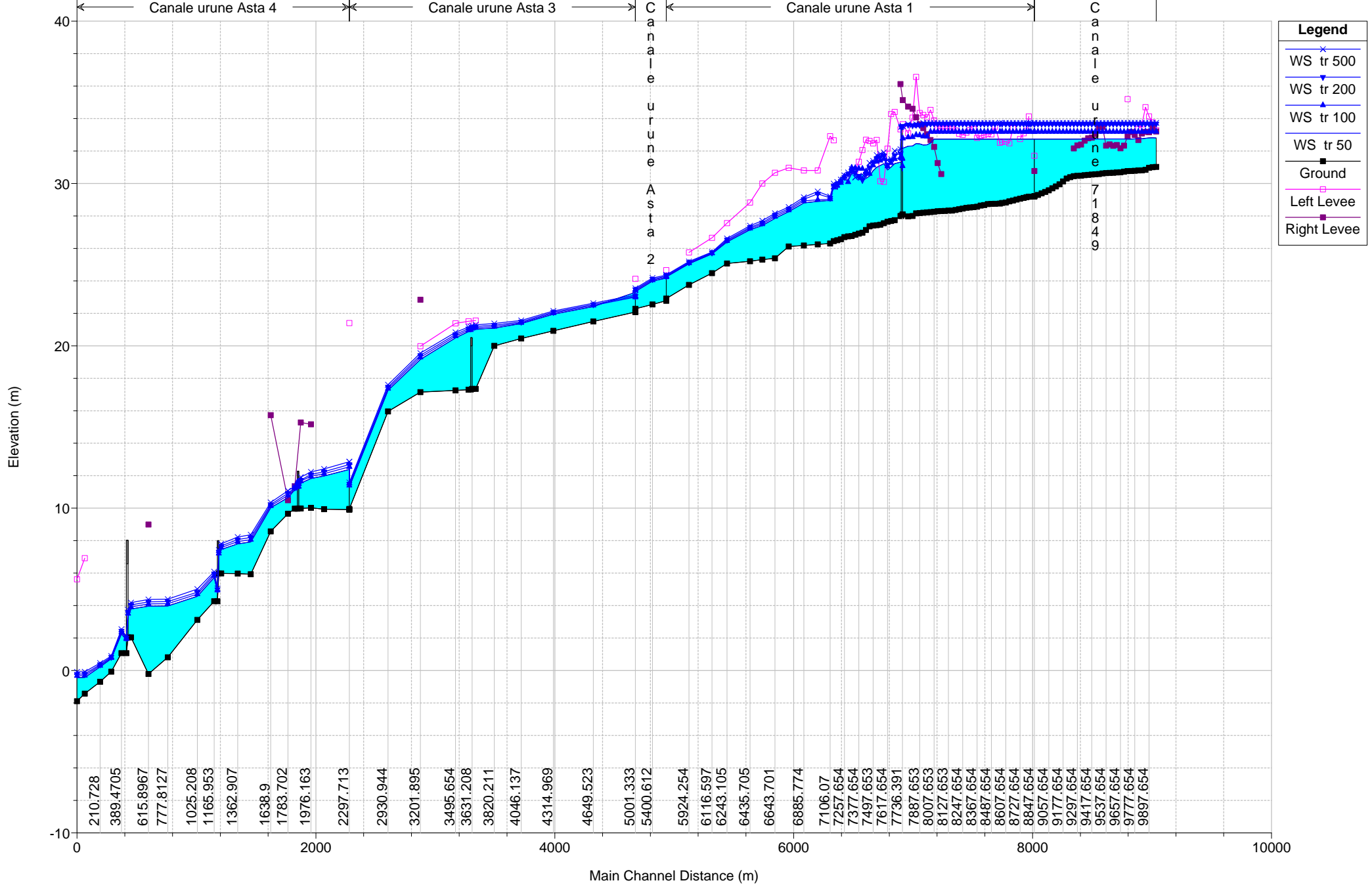
River = Canale su Inc Reach = Asta RS = 503.4748 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
Asta	1780.077	tr 50	21.10	39.33	39.80	39.80	39.93	0.017255	1.80	13.61	50.84	0.90
Asta	1780.077	tr 100	25.07	39.33	39.83	39.83	39.98	0.016692	1.88	15.63	54.31	0.90
Asta	1780.077	tr 200	29.12	39.33	39.87	39.87	40.03	0.016468	1.97	17.55	57.39	0.91
Asta	1780.077	tr 500	34.69	39.33	39.92	39.92	40.08	0.015404	2.03	20.44	61.38	0.89
Asta	1623.266	tr 50	21.10	32.60	32.78	32.91	33.35	0.211057	3.72	6.88	69.22	3.06
Asta	1623.266	tr 100	25.07	32.60	32.79	32.93	33.45	0.227728	4.03	7.59	71.99	3.21
Asta	1623.266	tr 200	29.12	32.60	32.80	32.95	33.52	0.232796	4.26	8.40	75.08	3.28
Asta	1623.266	tr 500	34.69	32.60	32.81	32.98	33.70	0.272824	4.75	9.01	77.38	3.58
Asta	1477.911	tr 50	21.10	28.02	28.31	28.31	28.40	0.018191	1.45	16.86	98.50	0.96
Asta	1477.911	tr 100	25.07	28.02	28.34	28.34	28.43	0.017728	1.53	19.19	102.87	0.97
Asta	1477.911	tr 200	29.12	28.02	28.36	28.36	28.46	0.017320	1.59	21.49	107.01	0.97
Asta	1477.911	tr 500	34.69	28.02	28.39	28.39	28.50	0.016853	1.68	24.54	112.26	0.97
Asta	1404.271	tr 50	21.10	27.10	27.47	27.42	27.51	0.006184	1.03	26.09	145.05	0.59
Asta	1404.271	tr 100	25.07	27.10	27.49	27.44	27.54	0.006146	1.08	29.66	148.94	0.60
Asta	1404.271	tr 200	29.12	27.10	27.51	27.46	27.56	0.006265	1.14	32.82	152.29	0.61
Asta	1404.271	tr 500	34.69	27.10	27.54	27.48	27.59	0.006449	1.21	36.81	156.42	0.62
Asta	1302.103	tr 50	21.10	26.12	26.40	26.40	26.48	0.019294	1.36	19.17	128.13	0.88
Asta	1302.103	tr 100	25.07	26.12	26.42	26.42	26.50	0.019577	1.44	21.54	135.44	0.89
Asta	1302.103	tr 200	29.12	26.12	26.44	26.44	26.53	0.018884	1.48	24.38	150.09	0.89
Asta	1302.103	tr 500	34.69	26.12	26.47	26.47	26.56	0.018112	1.54	28.32	167.63	0.88
Asta	1184.851	tr 50	21.10	25.17	26.44	25.60	26.45	0.000021	0.15	214.31	346.94	0.04
Asta	1184.851	tr 100	25.07	25.17	26.45	25.63	26.45	0.000029	0.17	215.82	347.21	0.05
Asta	1184.851	tr 200	29.12	25.17	26.46	25.67	26.46	0.000038	0.20	218.11	347.83	0.06
Asta	1184.851	tr 500	34.69	25.17	26.48	25.68	26.48	0.000047	0.23	227.51	350.00	0.06
Asta	1164.446		Culvert									
Asta	1141.34	tr 50	21.10	23.99	24.41	24.40	24.53	0.017124	1.62	14.64	58.42	0.88
Asta	1141.34	tr 100	25.07	23.99	24.44	24.43	24.57	0.017640	1.74	16.44	62.50	0.90
Asta	1141.34	tr 200	29.12	23.99	24.47	24.46	24.61	0.018092	1.84	18.23	66.77	0.92
Asta	1141.34	tr 500	34.69	23.99	24.60	24.51	24.69	0.007669	1.46	29.42	92.61	0.63
Asta	957.1339	tr 50	21.10	21.98	22.45	22.37	22.51	0.007470	1.18	21.51	81.88	0.59
Asta	957.1339	tr 100	25.07	21.98	22.49	22.40	22.55	0.007327	1.24	24.72	88.77	0.60
Asta	957.1339	tr 200	29.12	21.98	22.53	22.42	22.59	0.007210	1.30	27.96	96.11	0.60
Asta	957.1339	tr 500	34.69	21.98	22.46	22.46	22.61	0.018083	1.87	22.46	84.58	0.93
Asta	803.7123	tr 50	21.10	20.64	21.04	20.98	21.11	0.011398	1.21	19.44	82.93	0.70
Asta	803.7123	tr 100	25.07	20.64	21.07	21.01	21.15	0.011768	1.31	21.91	91.13	0.72
Asta	803.7123	tr 200	29.12	20.64	21.09	21.03	21.18	0.012118	1.39	24.30	98.46	0.74
Asta	803.7123	tr 500	34.69	20.64	21.08	21.08	21.21	0.020272	1.75	22.81	93.97	0.95
Asta	690.5607	tr 50	21.10	19.99	20.30	20.23	20.32	0.004546	0.67	37.31	211.90	0.43
Asta	690.5607	tr 100	25.07	19.99	20.32	20.24	20.34	0.004597	0.71	41.56	215.11	0.44
Asta	690.5607	tr 200	29.12	19.99	20.34	20.25	20.36	0.004609	0.75	45.76	218.20	0.44
Asta	690.5607	tr 500	34.69	19.99	20.37	20.27	20.39	0.004659	0.79	51.06	221.75	0.45
Asta	503.4748	tr 50	21.10	18.32	18.61	18.61	18.71	0.021786	1.46	15.82	81.52	0.93
Asta	503.4748	tr 100	25.07	18.32	18.64	18.64	18.75	0.020568	1.52	18.16	85.73	0.92
Asta	503.4748	tr 200	29.12	18.32	18.66	18.66	18.78	0.019994	1.59	20.33	89.46	0.92
Asta	503.4748	tr 500	34.69	18.32	18.70	18.70	18.82	0.018898	1.66	23.39	94.20	0.91

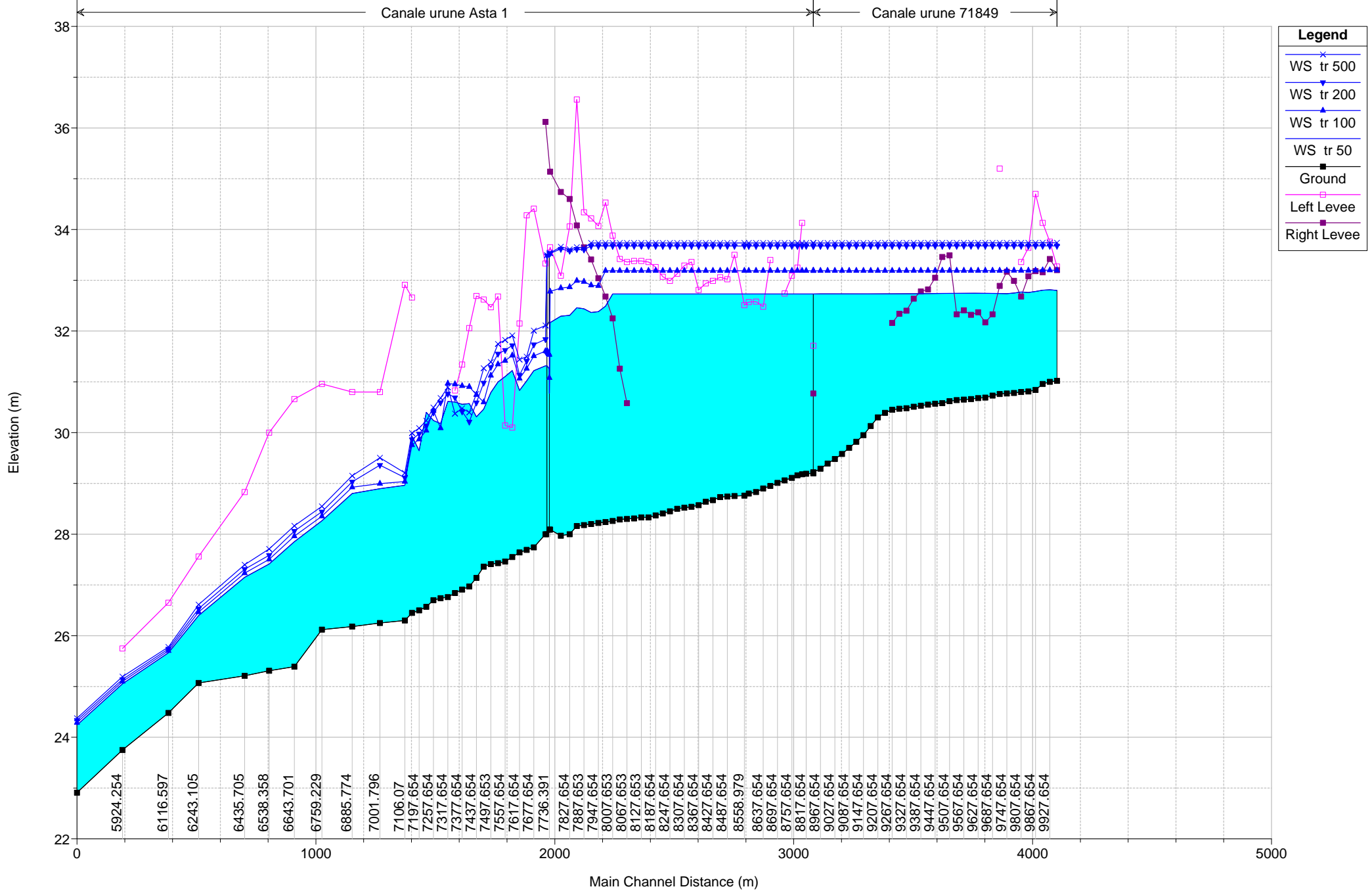
urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



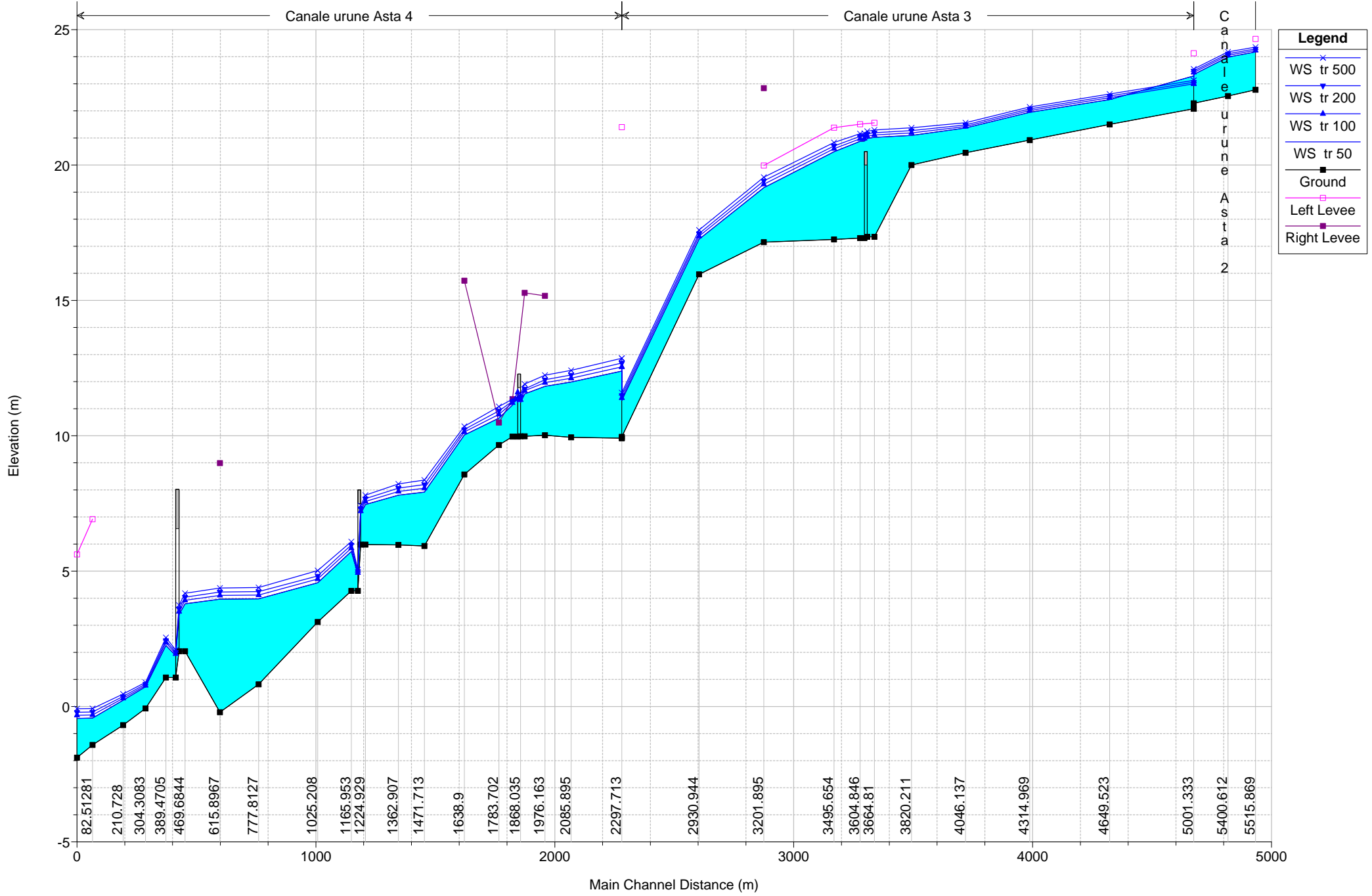
urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

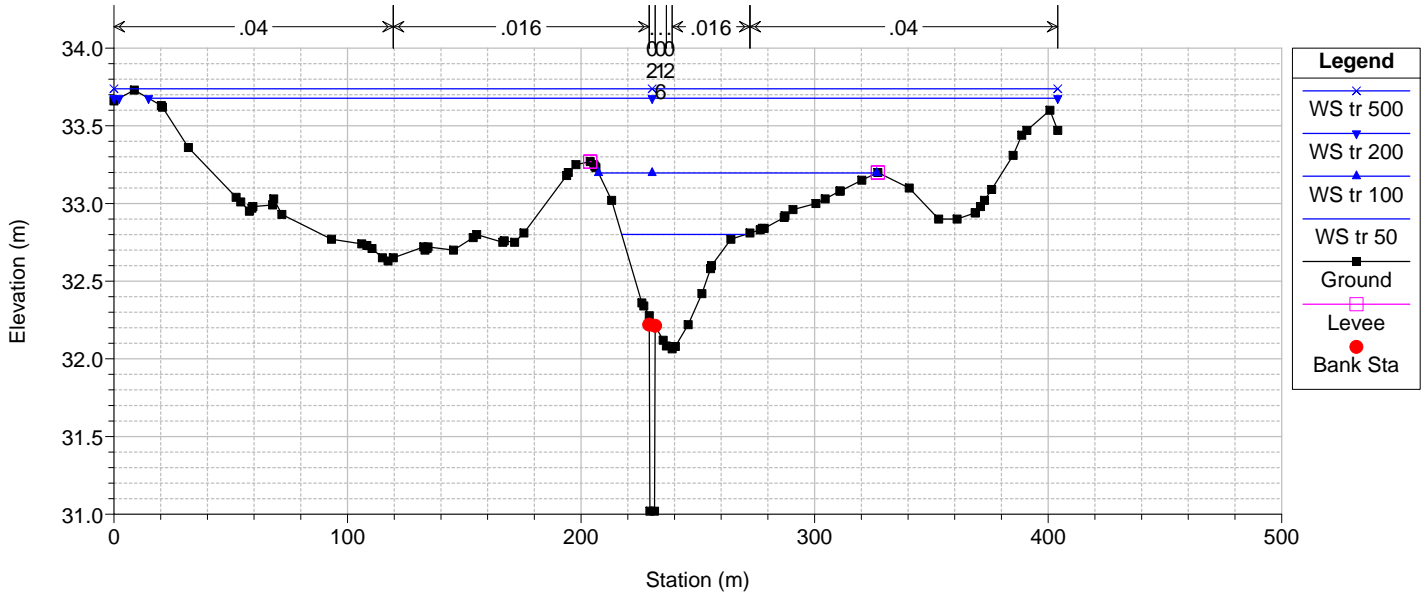
Geom: urune26062017_2_rev07 Flow: urune26062017 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

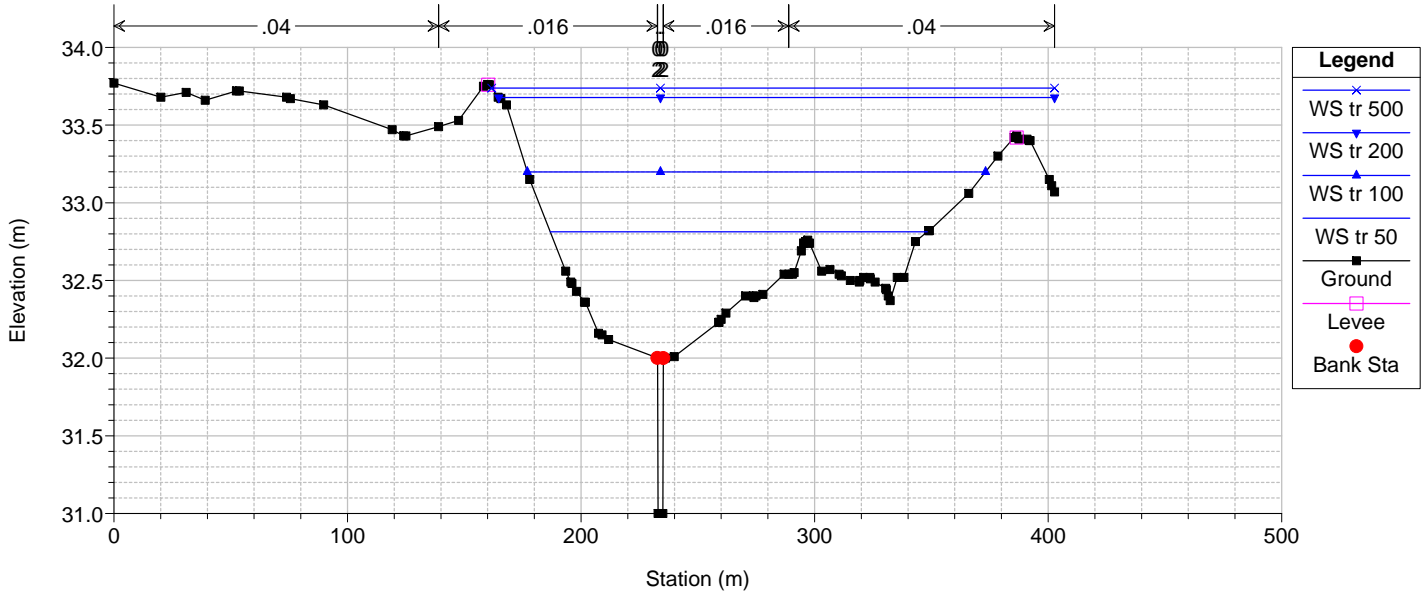
River = Canale urune Reach = 71849 RS = 9957.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

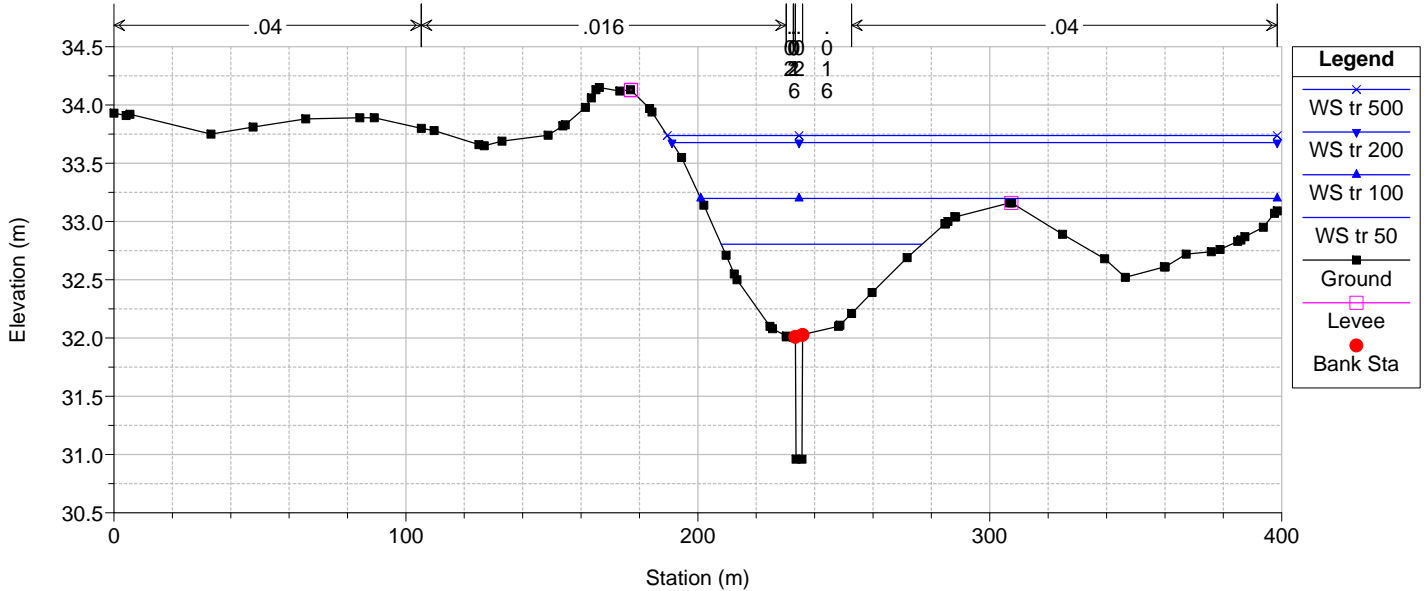
River = Canale urune Reach = 71849 RS = 9927.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

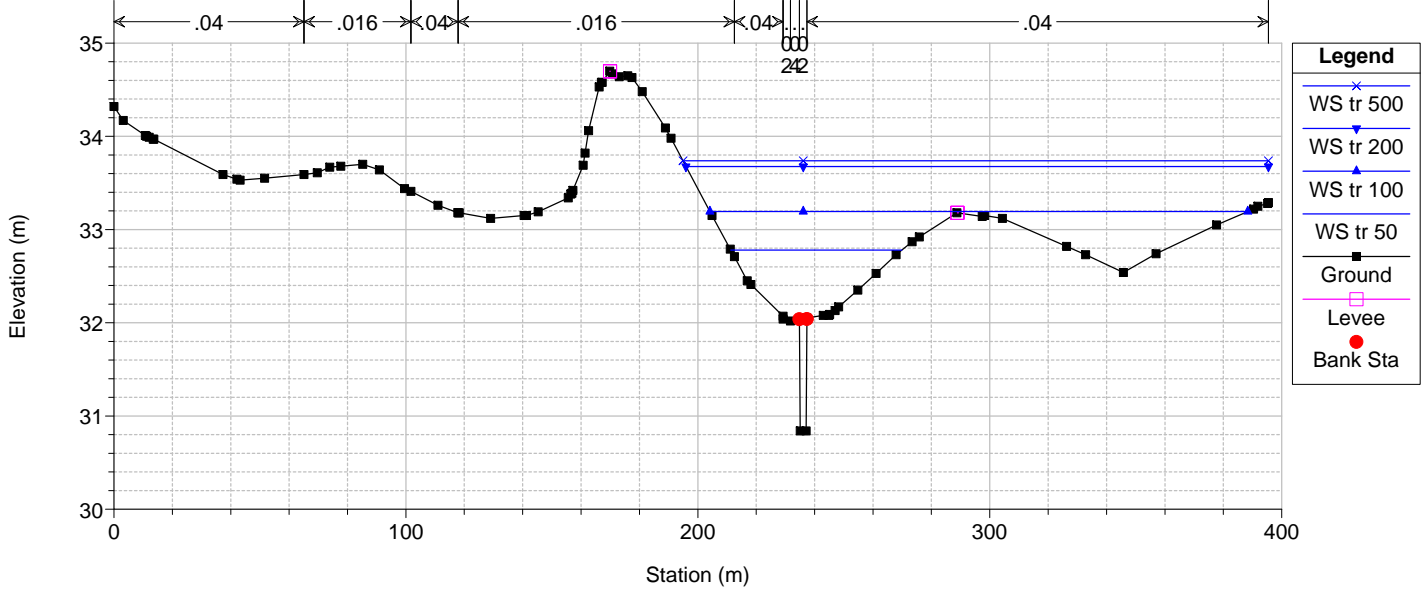
River = Canale urune Reach = 71849 RS = 9897.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

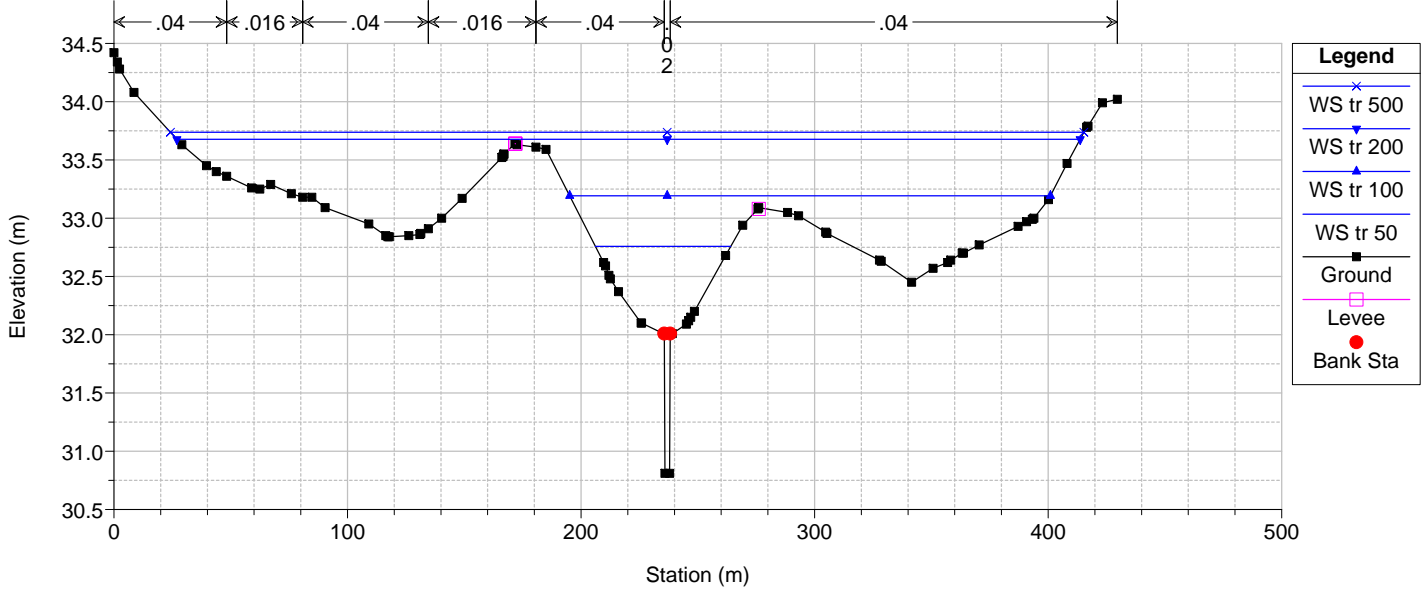
River = Canale urune Reach = 71849 RS = 9867.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

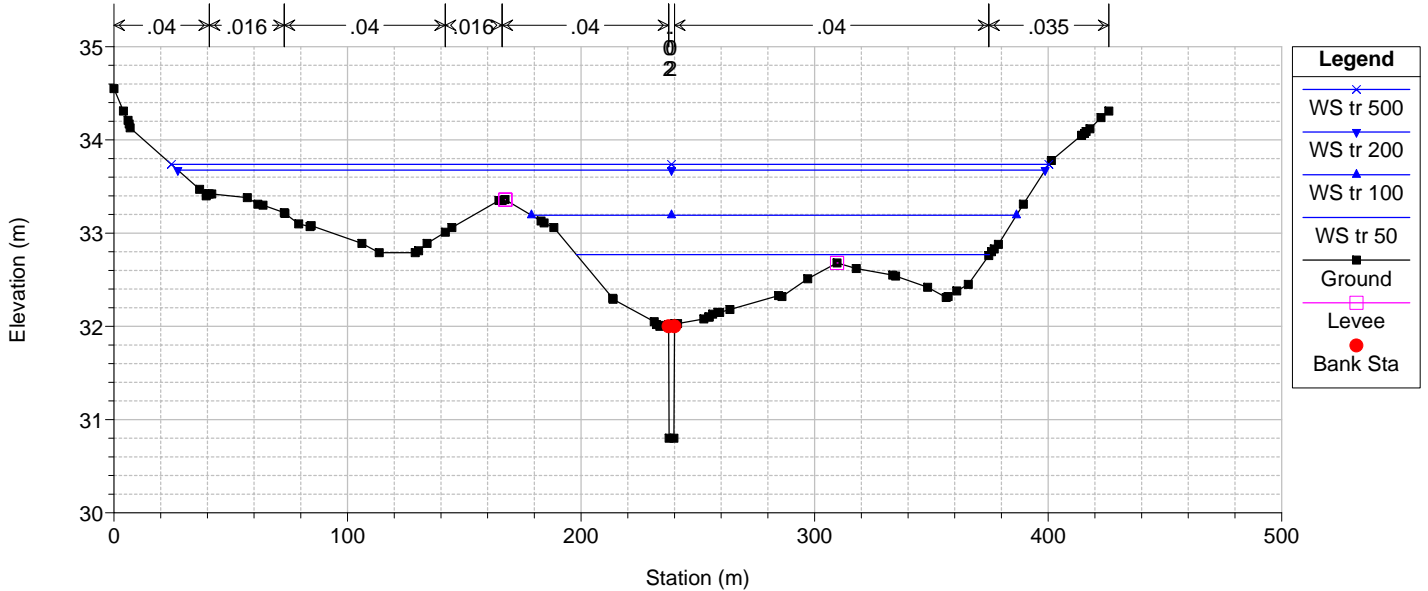
River = Canale urune Reach = 71849 RS = 9837.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

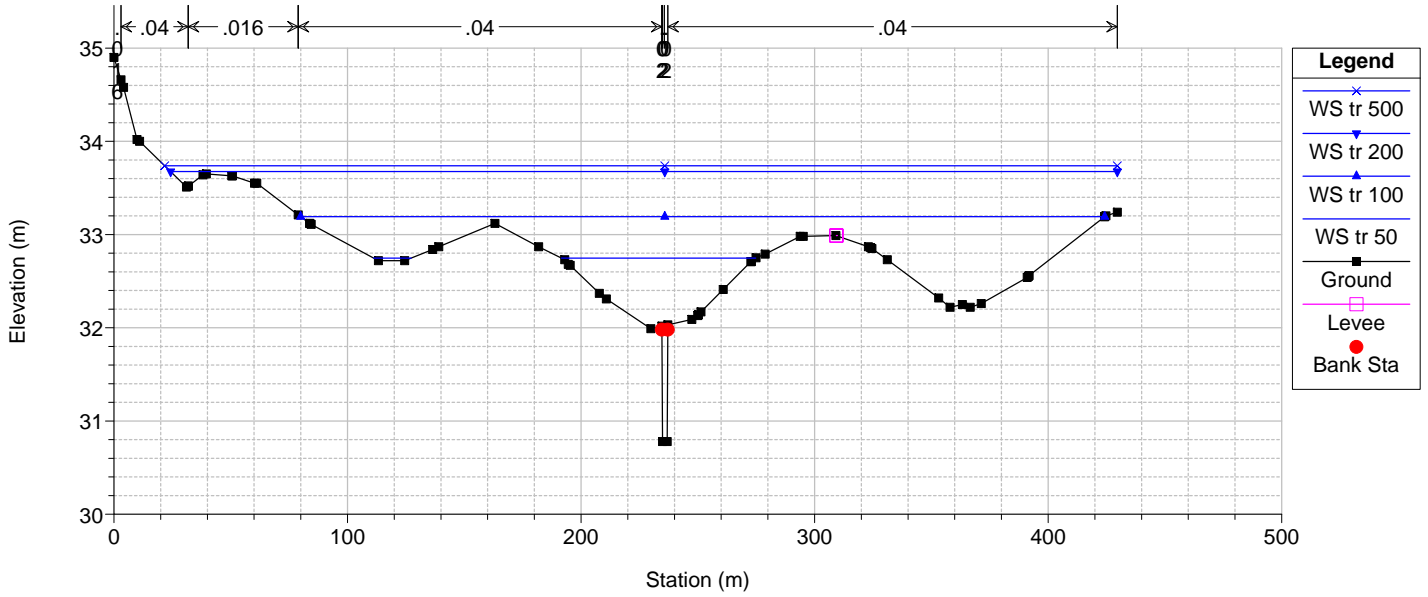
River = Canale urune Reach = 71849 RS = 9807.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

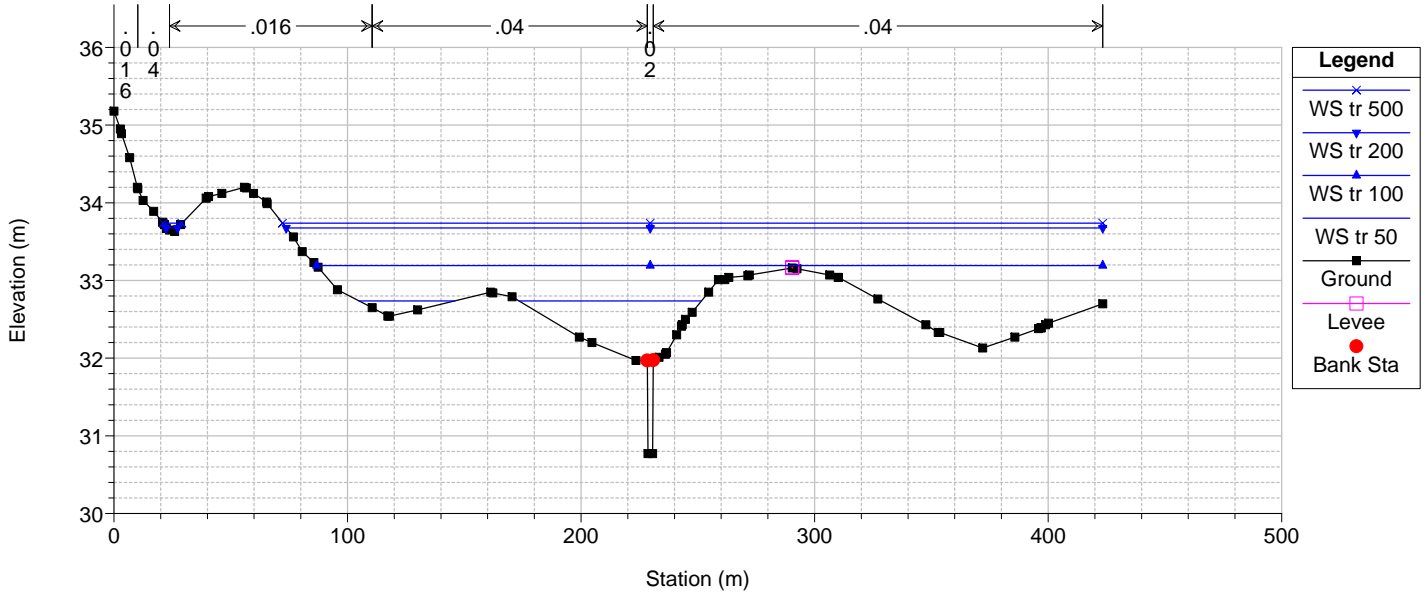
River = Canale urune Reach = 71849 RS = 9777.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

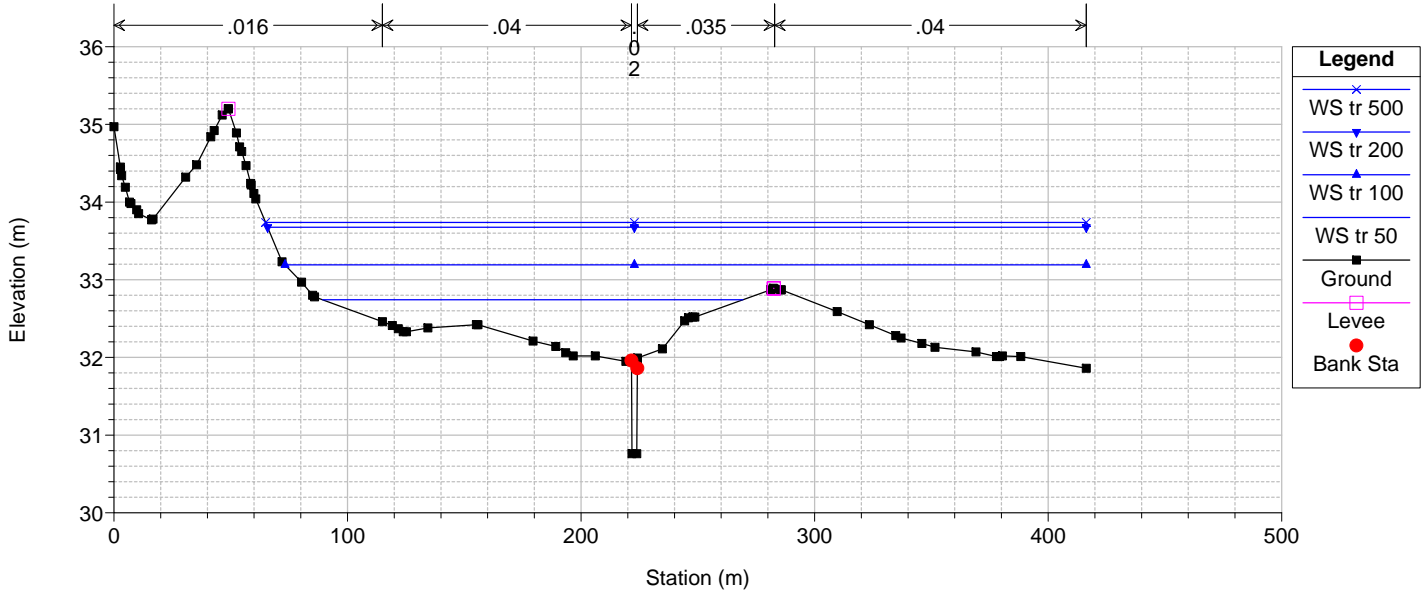
River = Canale urune Reach = 71849 RS = 9747.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

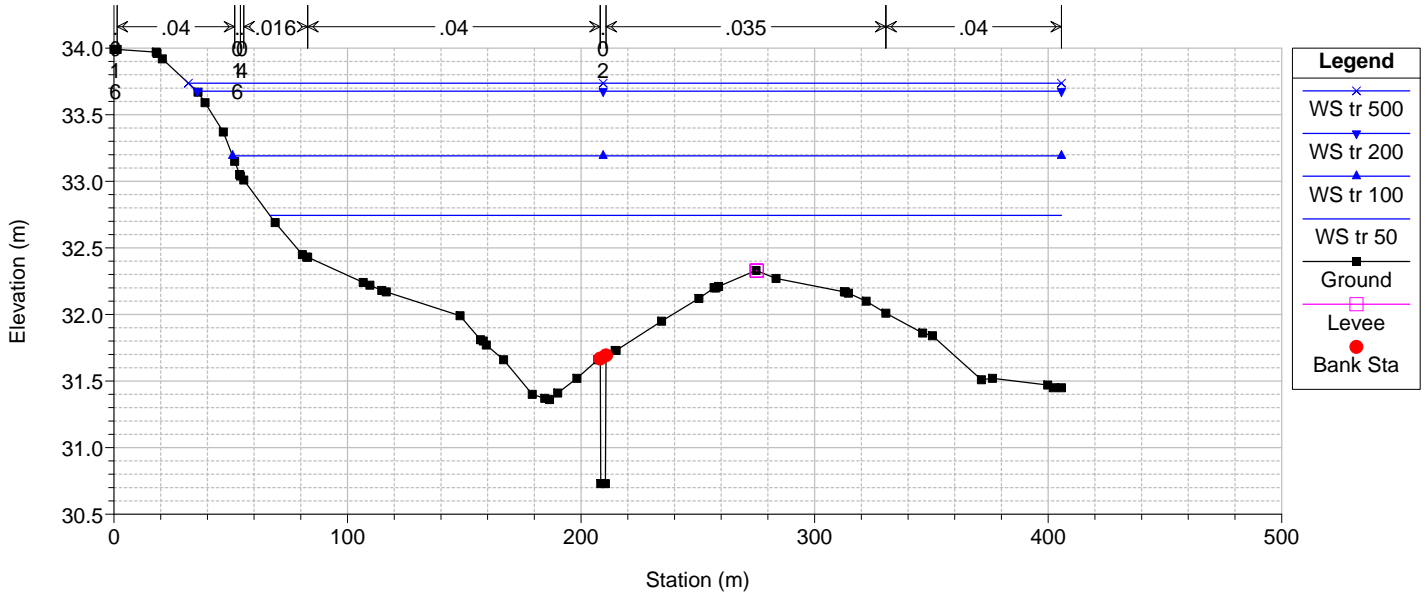
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urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

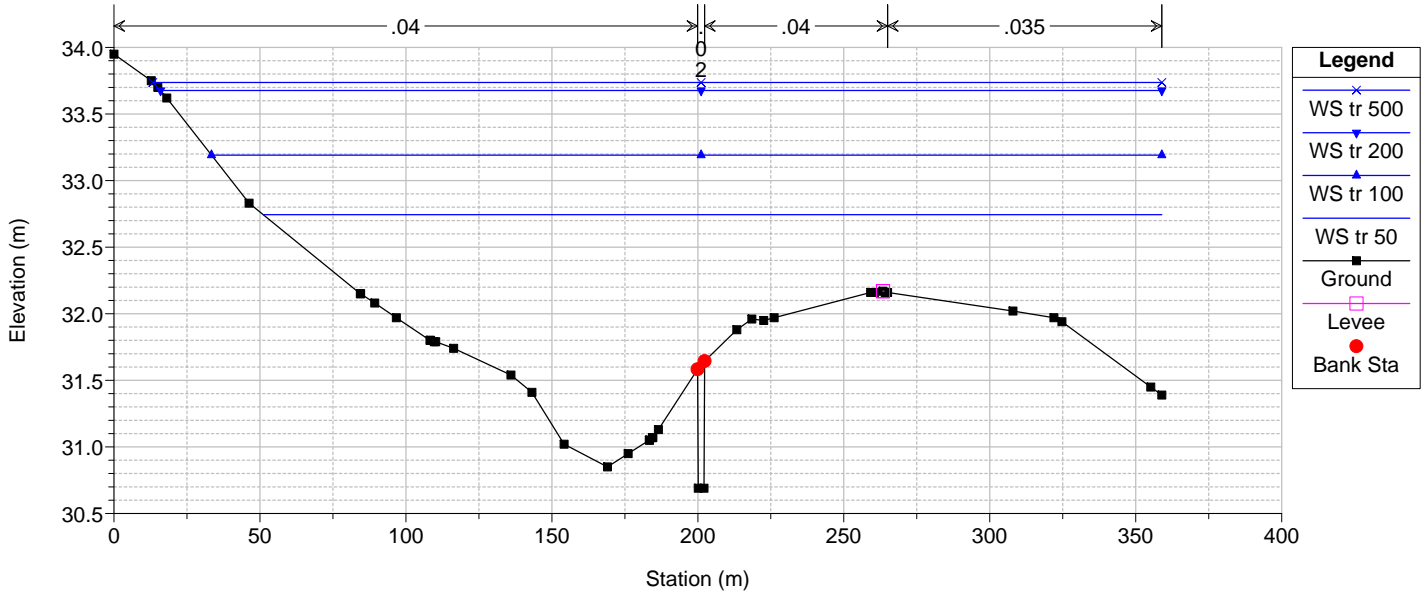
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urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

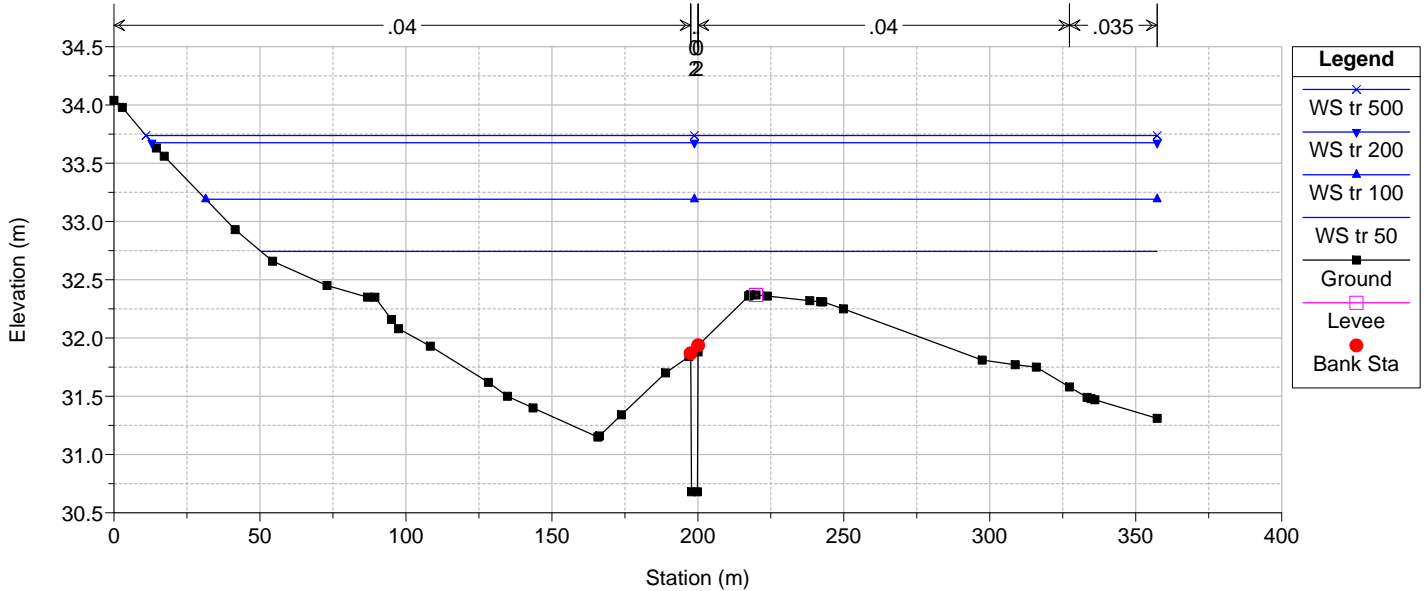
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urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

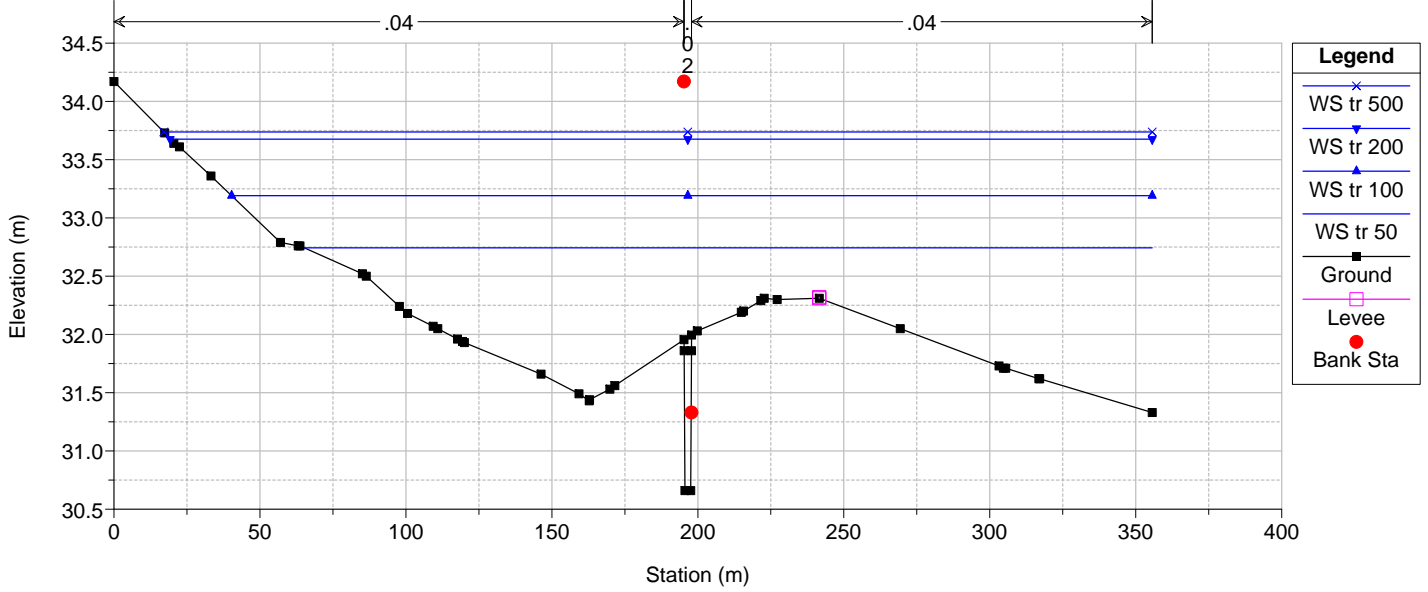
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urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

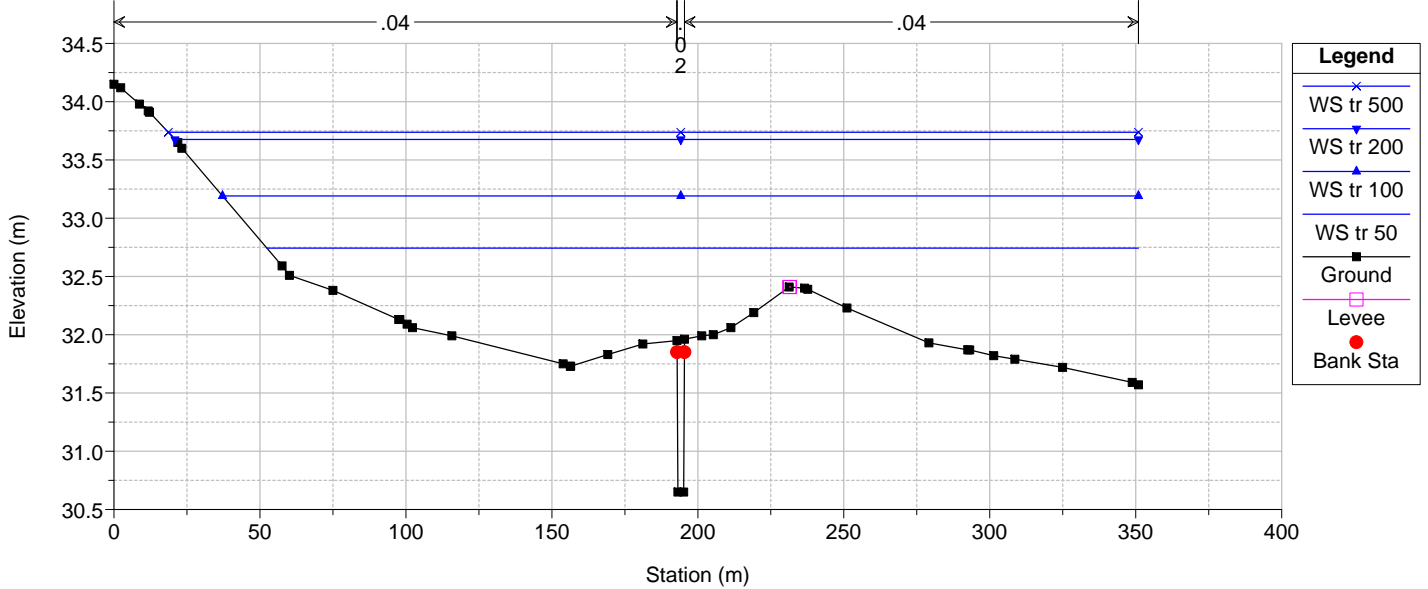
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urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

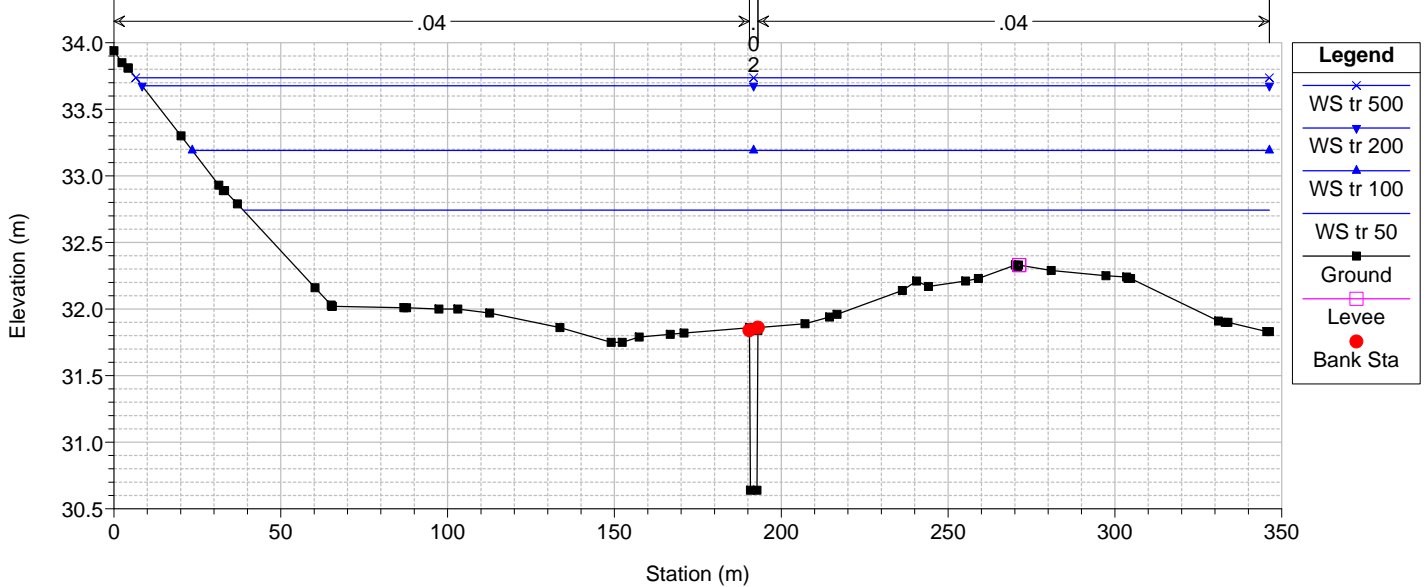
River = Canale urune Reach = 71849 RS = 9567.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

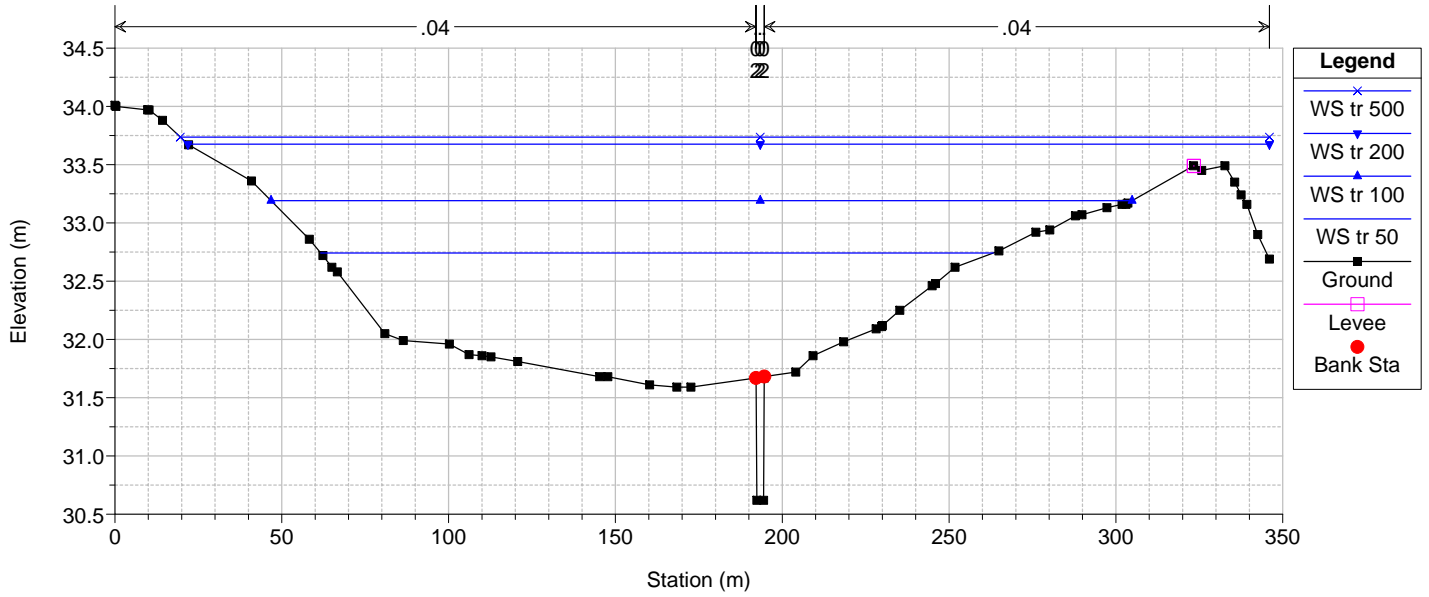
River = Canale urune Reach = 71849 RS = 9537.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

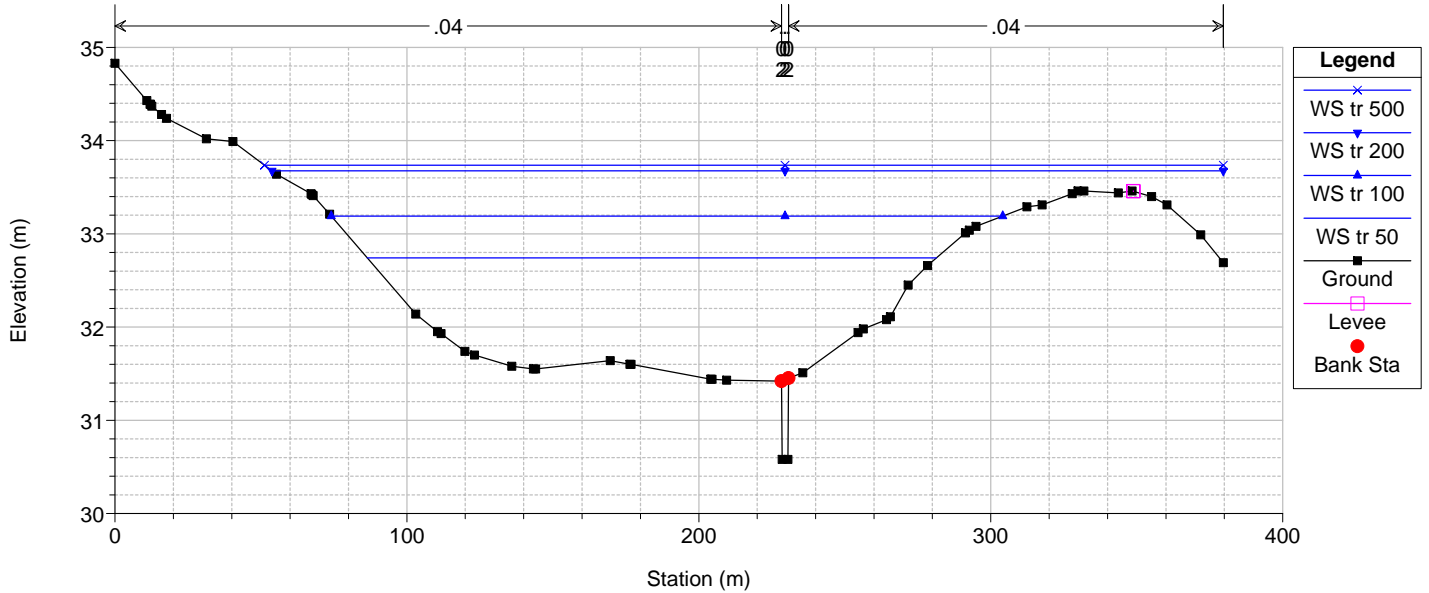
River = Canale urune Reach = 71849 RS = 9507.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

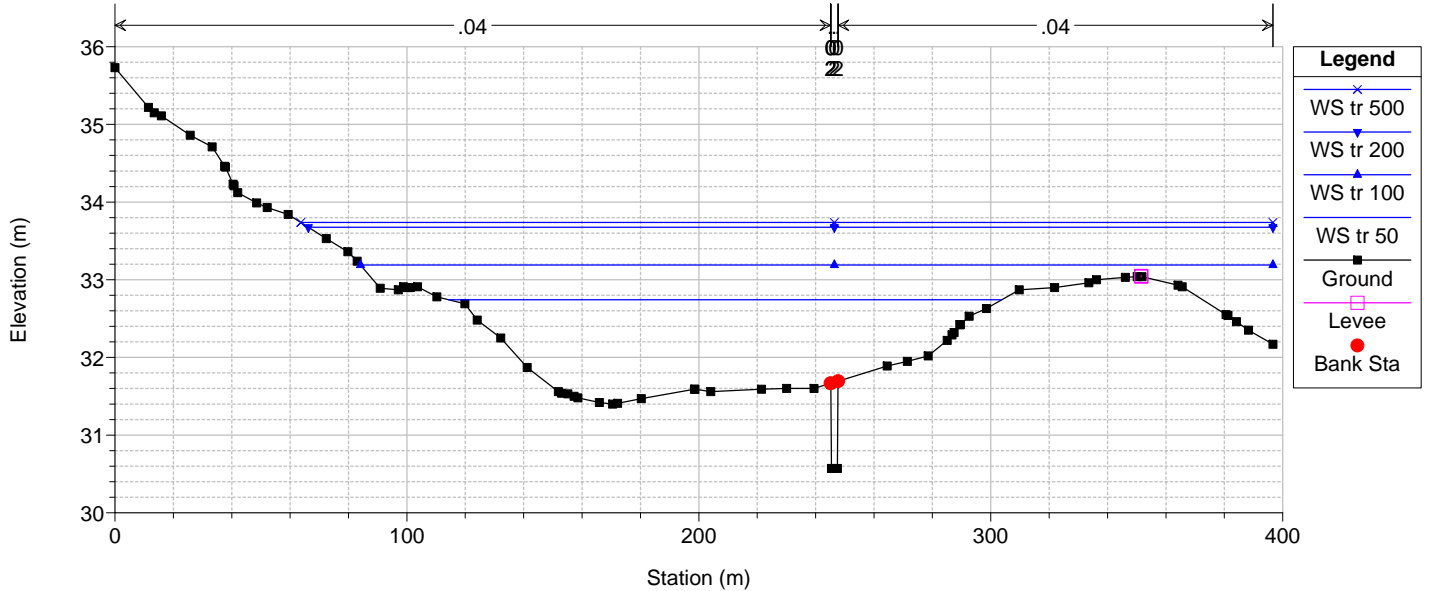
River = Canale urune Reach = 71849 RS = 9477.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

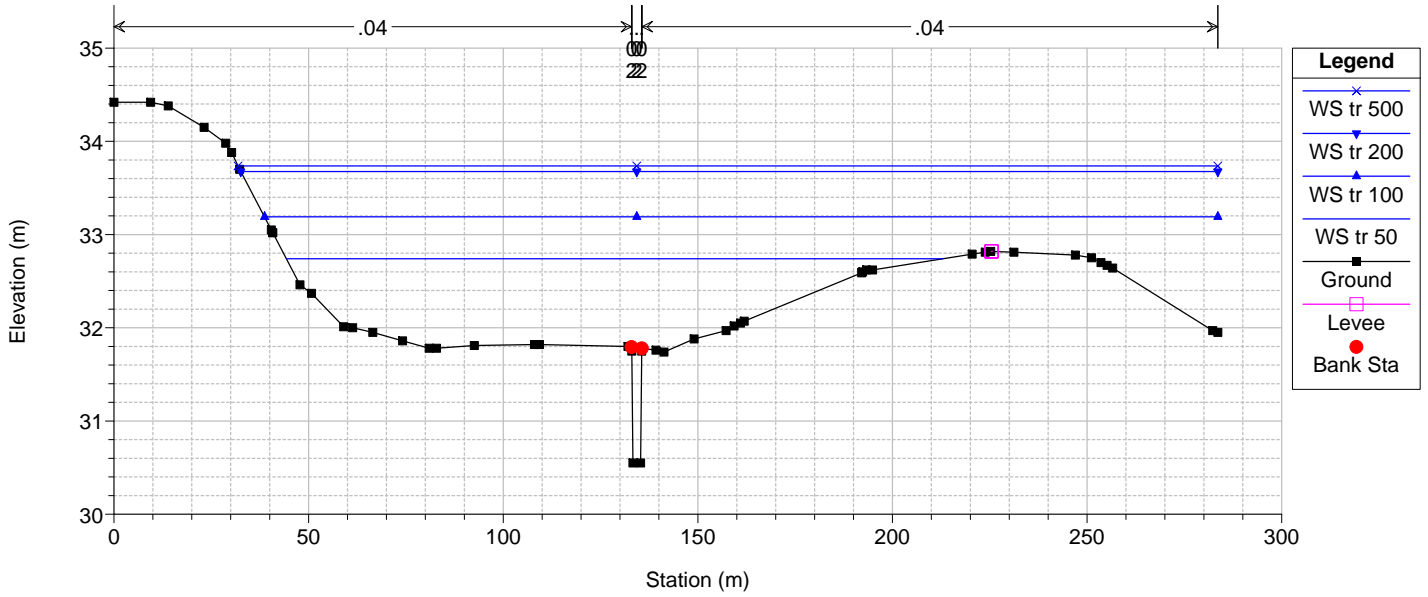
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urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

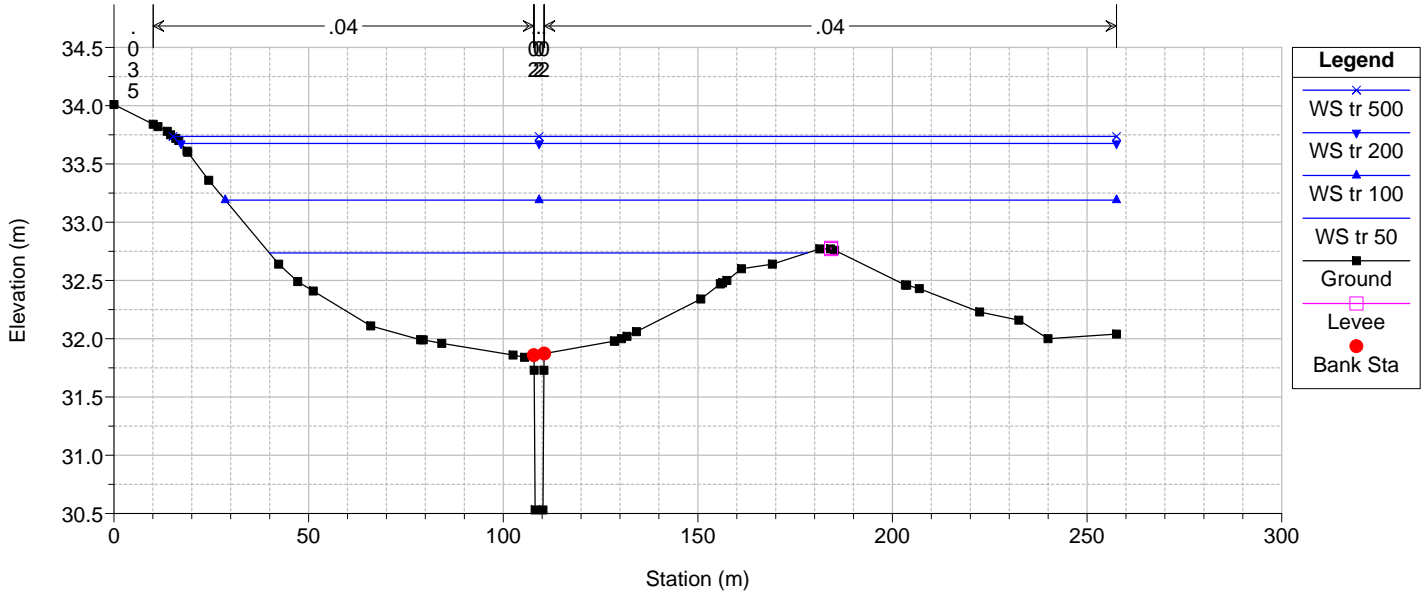
River = Canale urune Reach = 71849 RS = 9417.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

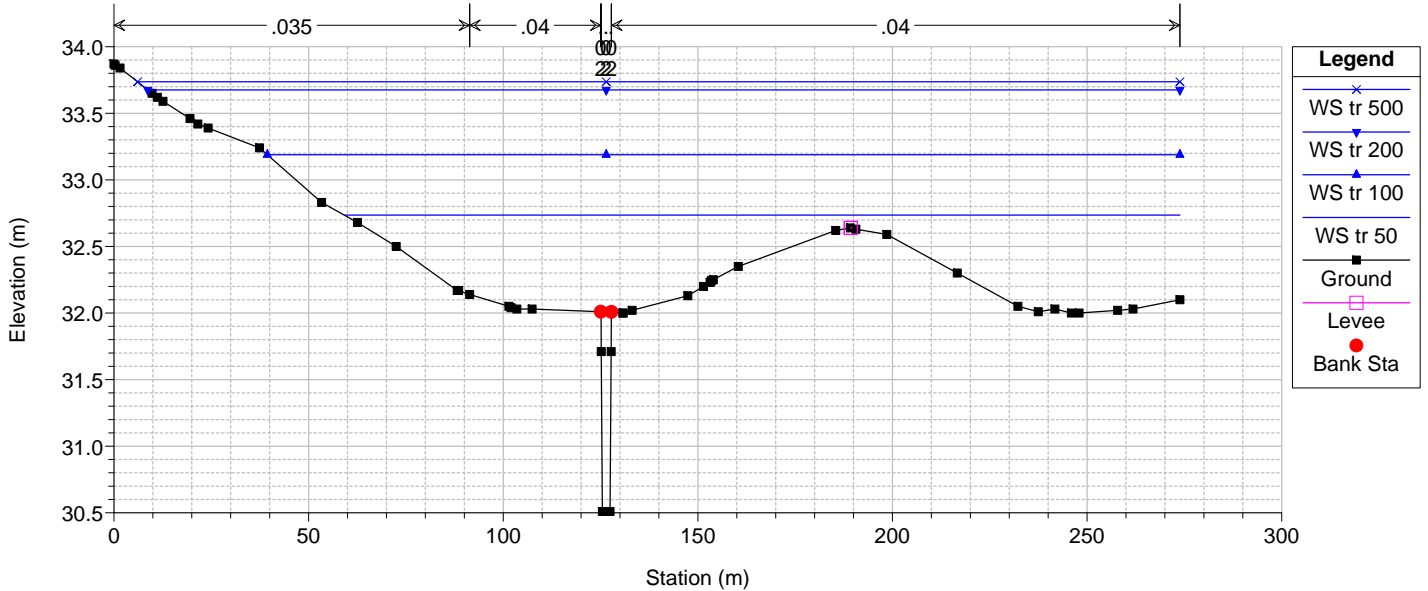
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urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

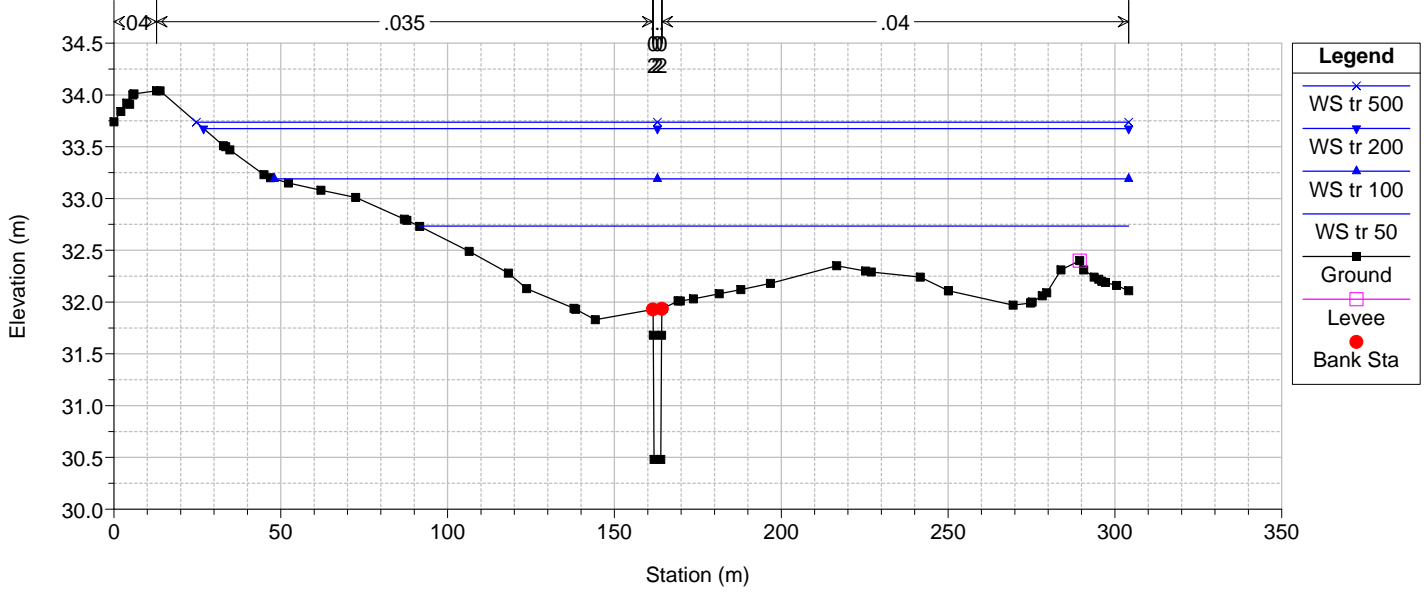
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urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

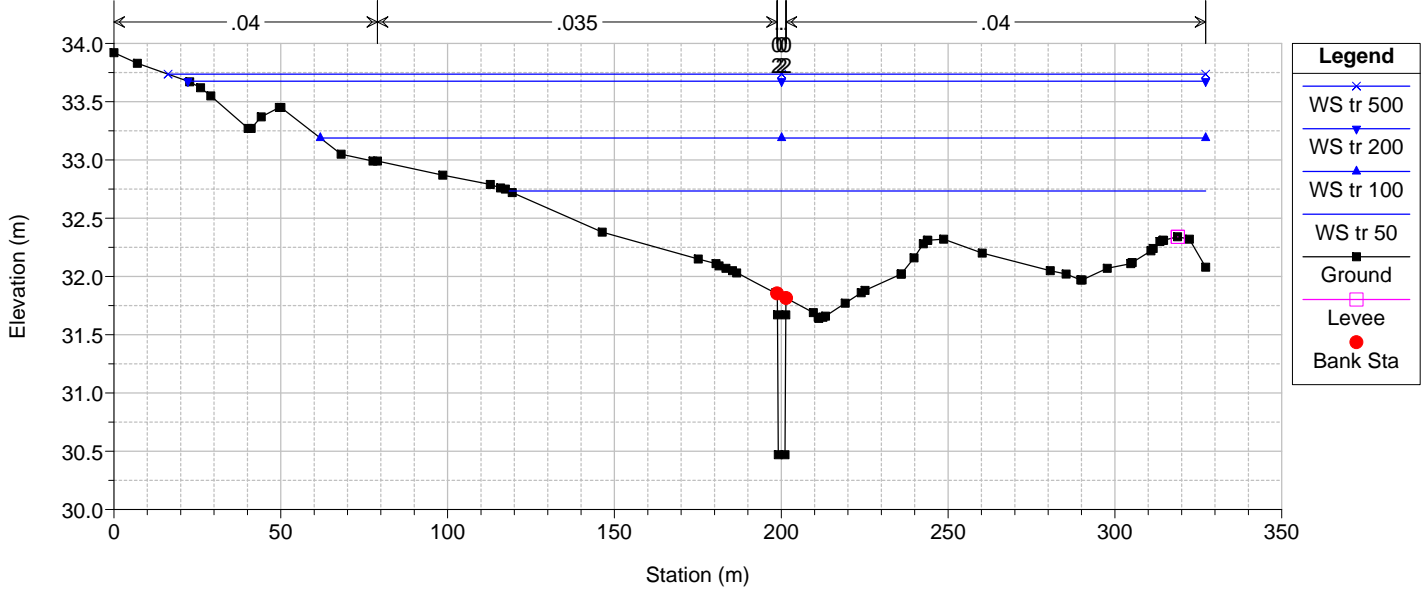
River = Canale urune Reach = 71849 RS = 9327.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

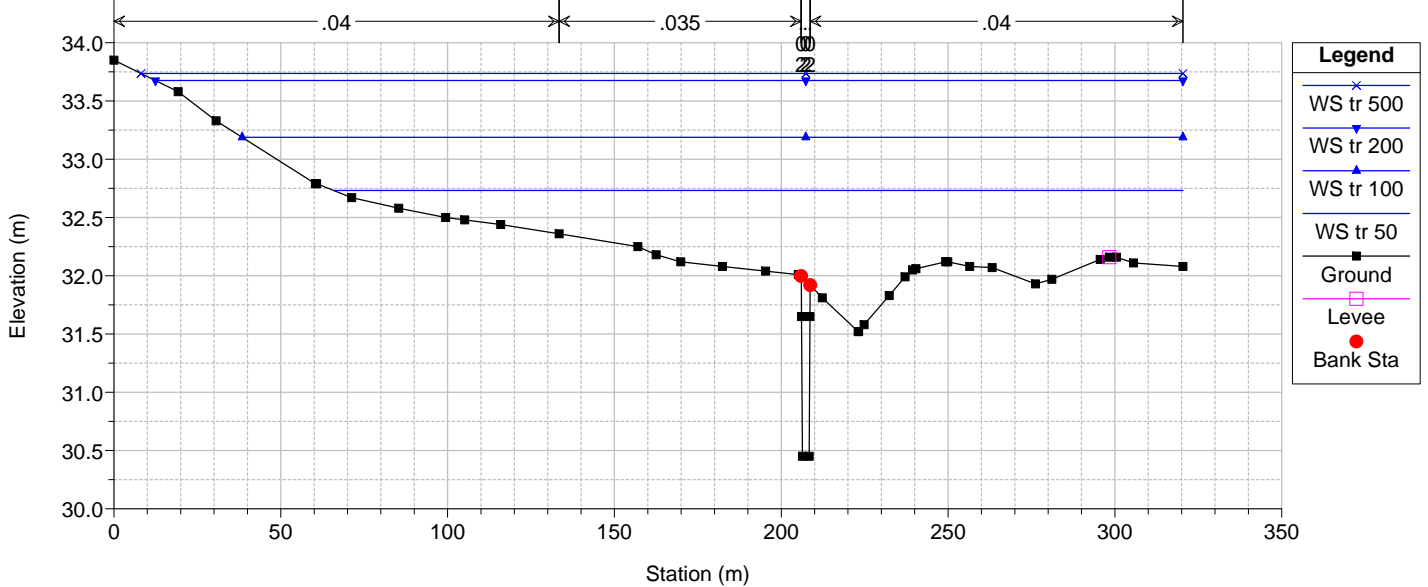
River = Canale urune Reach = 71849 RS = 9297.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

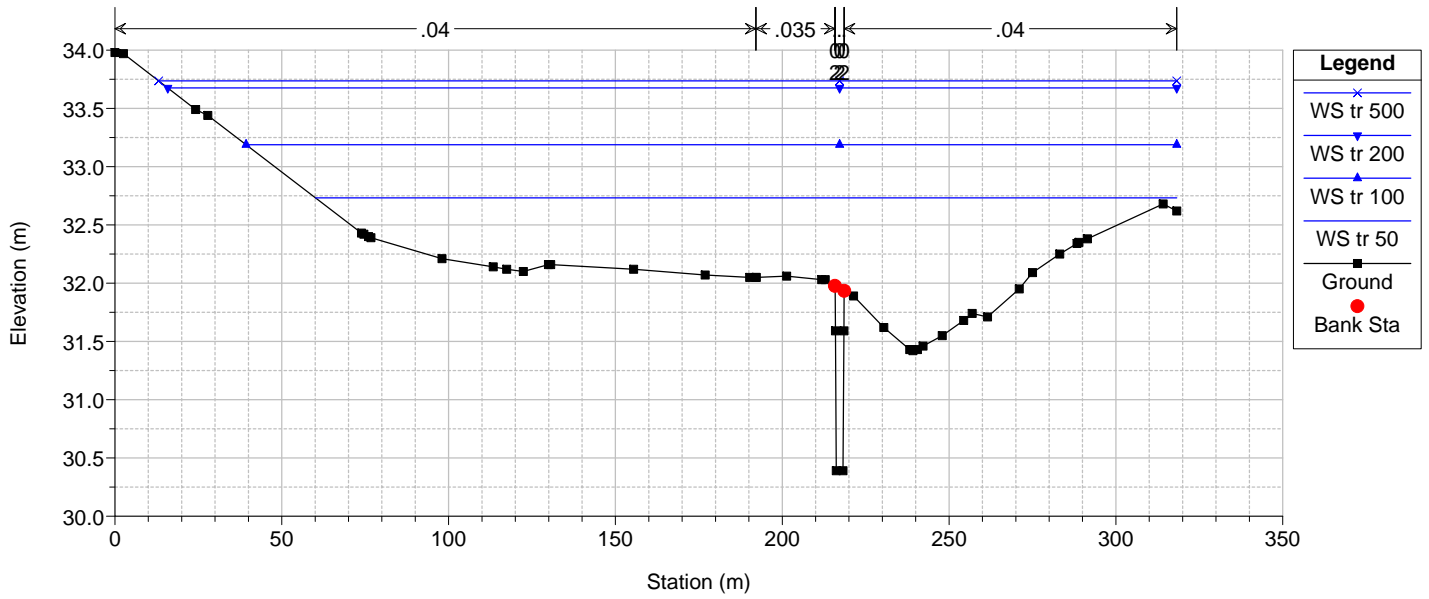
River = Canale urune Reach = 71849 RS = 9267.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

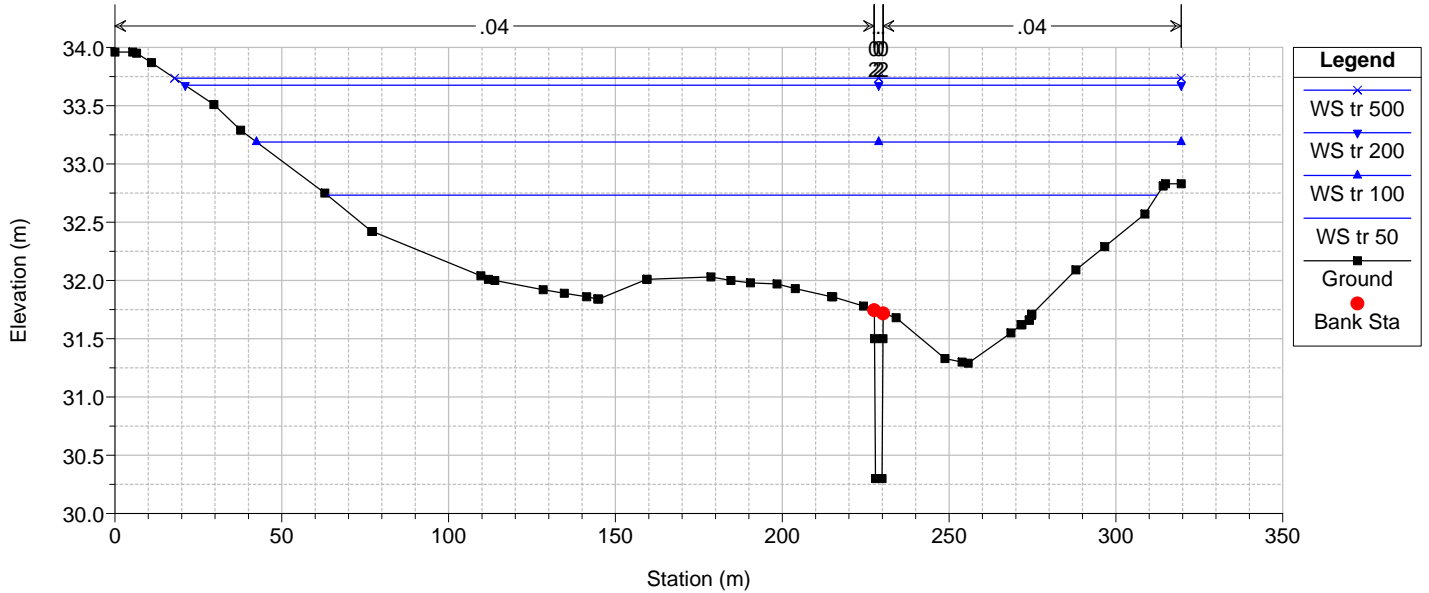
River = Canale urune Reach = 71849 RS = 9237.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

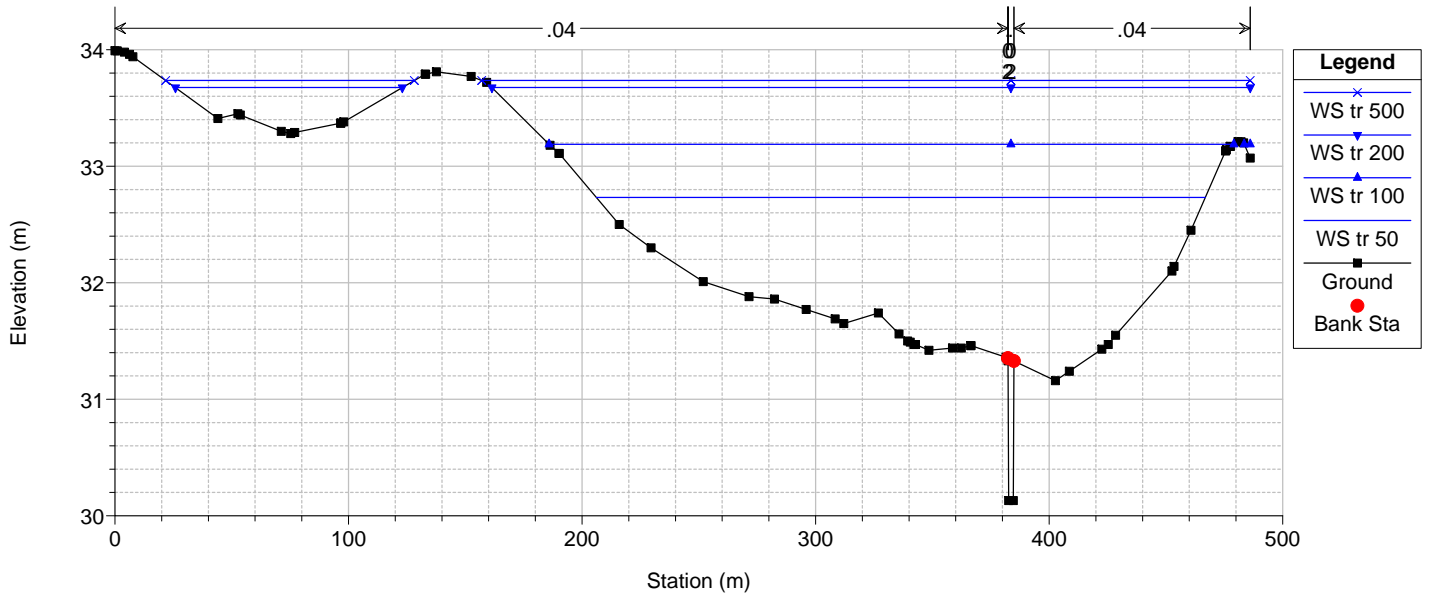
River = Canale urune Reach = 71849 RS = 9207.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

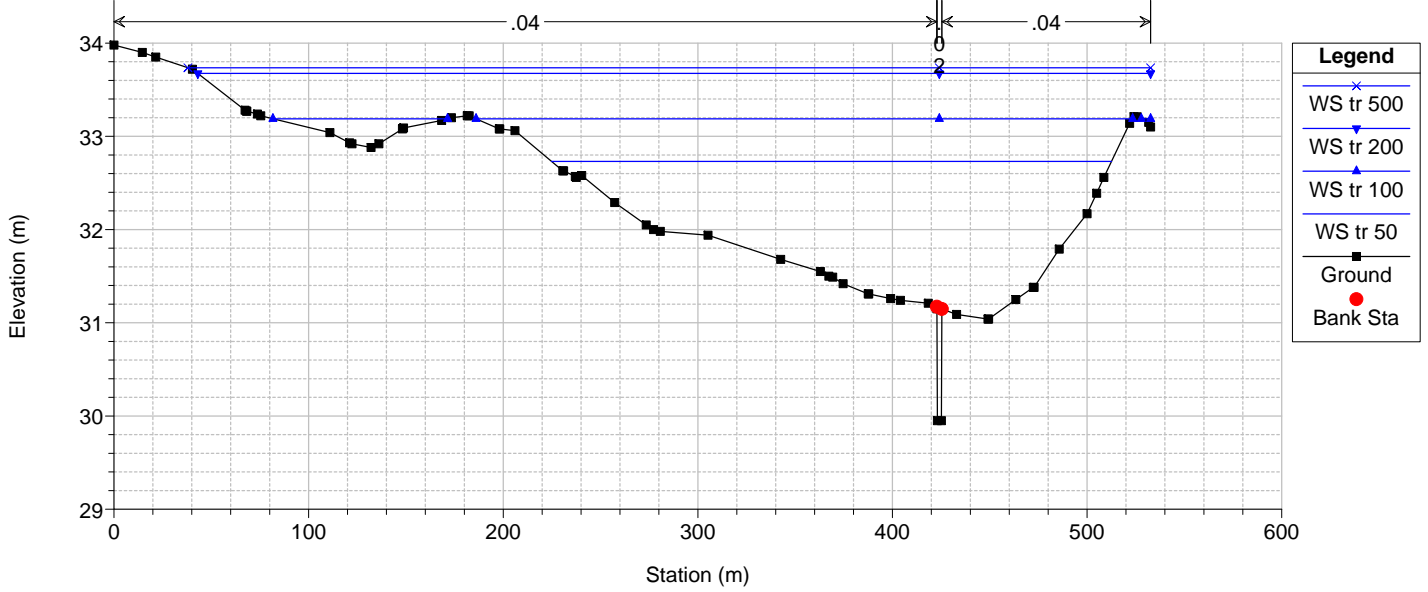
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urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

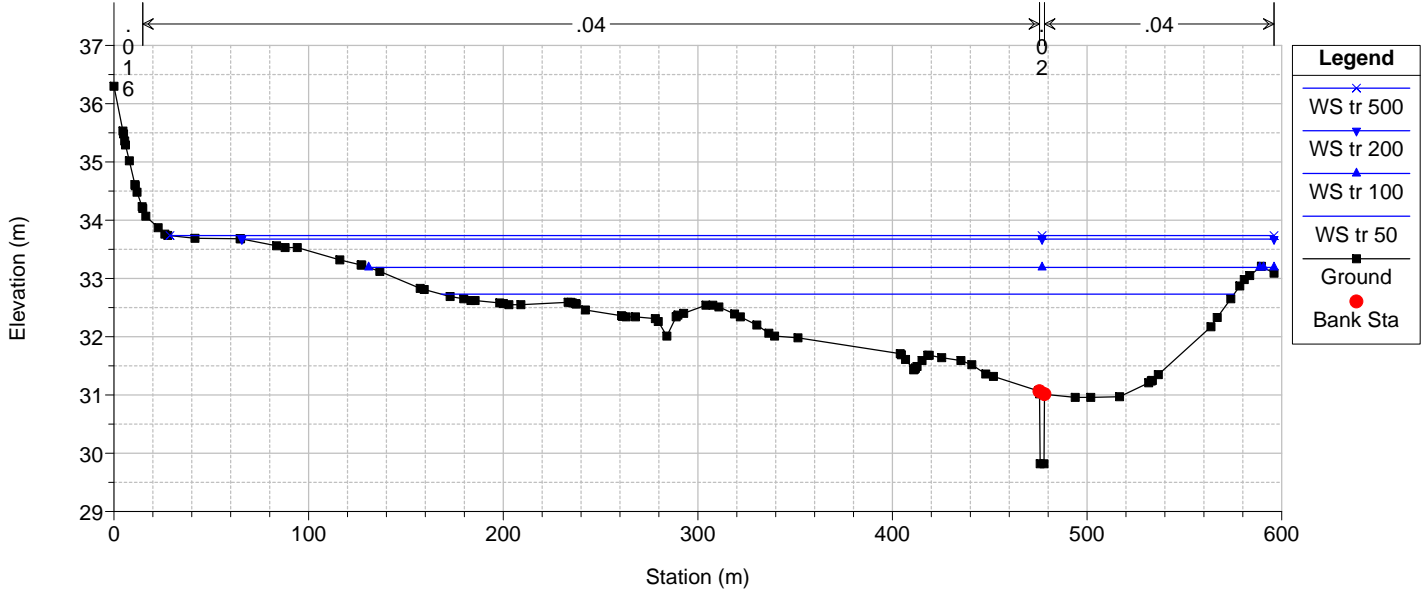
River = Canale urune Reach = 71849 RS = 9147.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

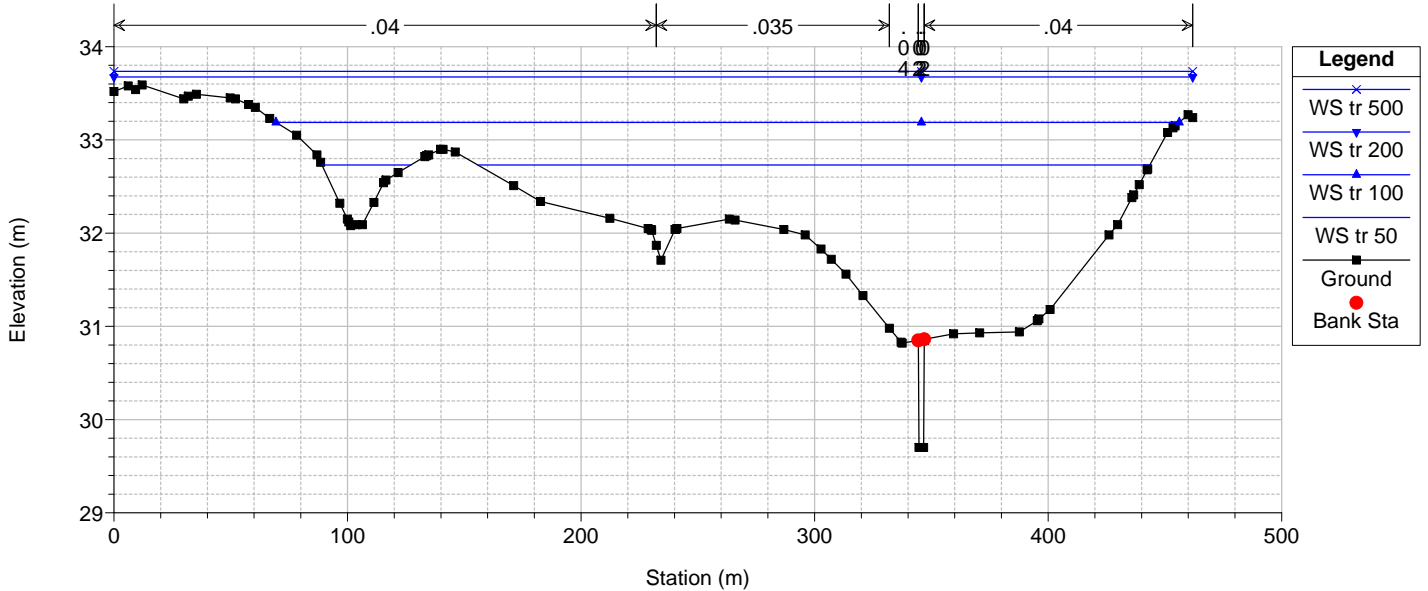
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urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

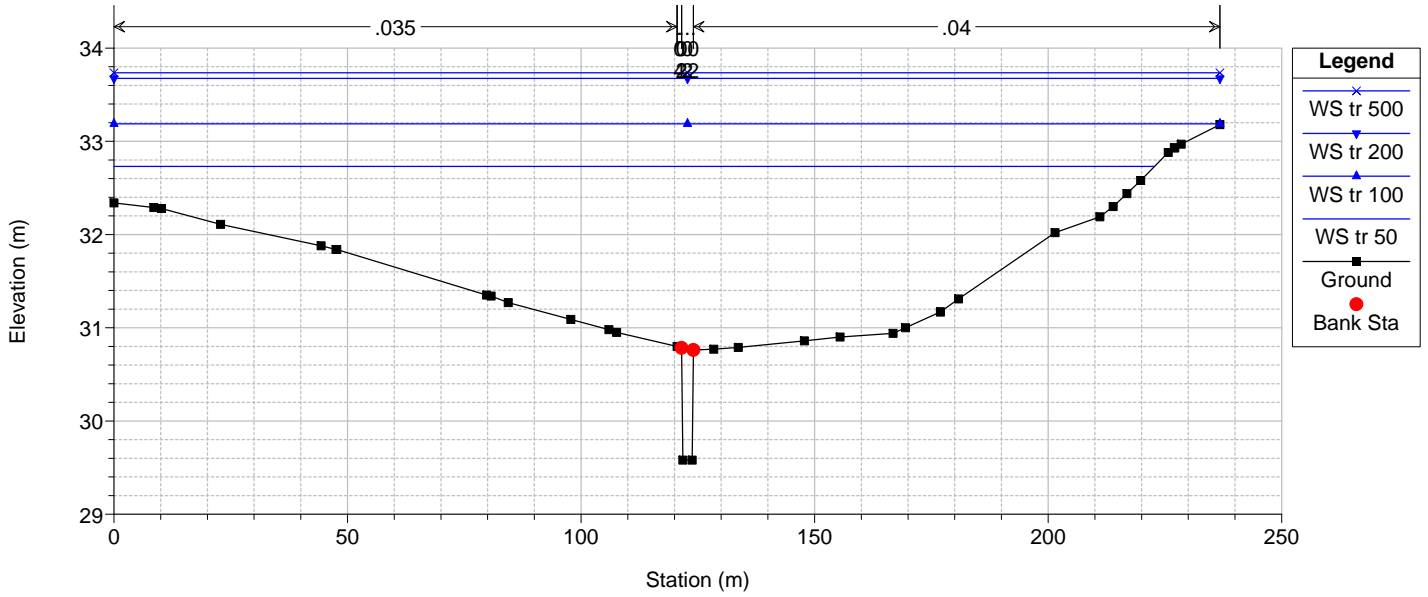
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urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

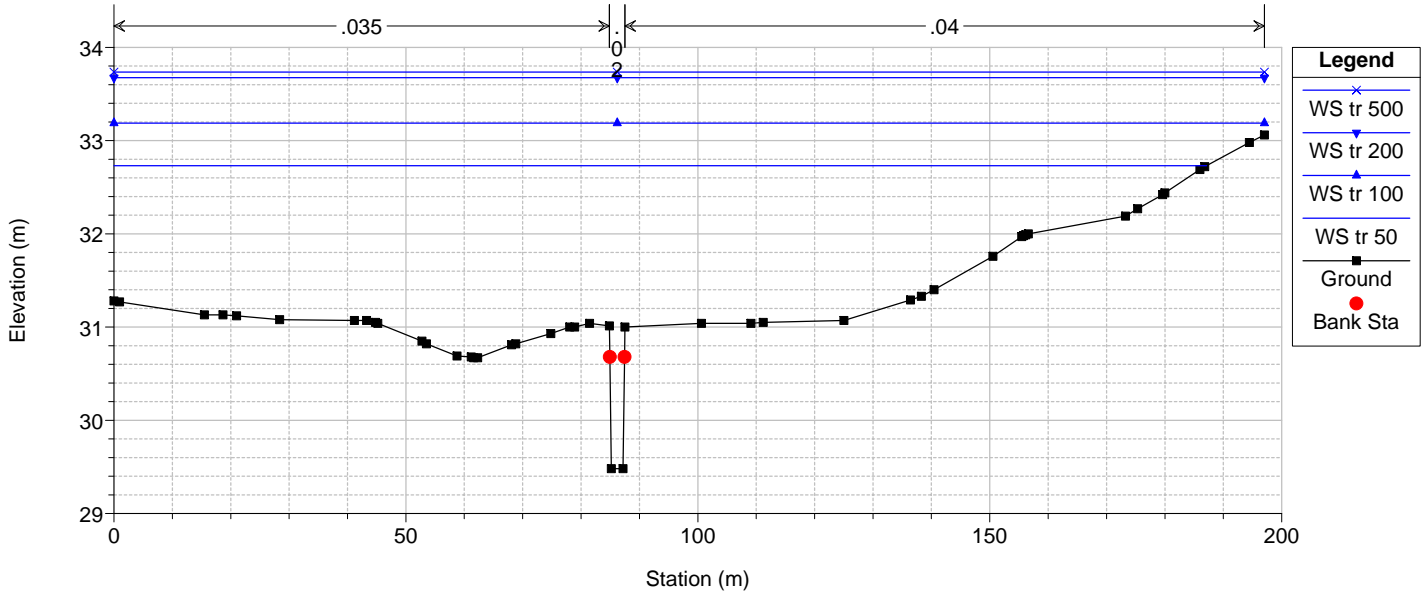
River = Canale urune Reach = 71849 RS = 9057.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

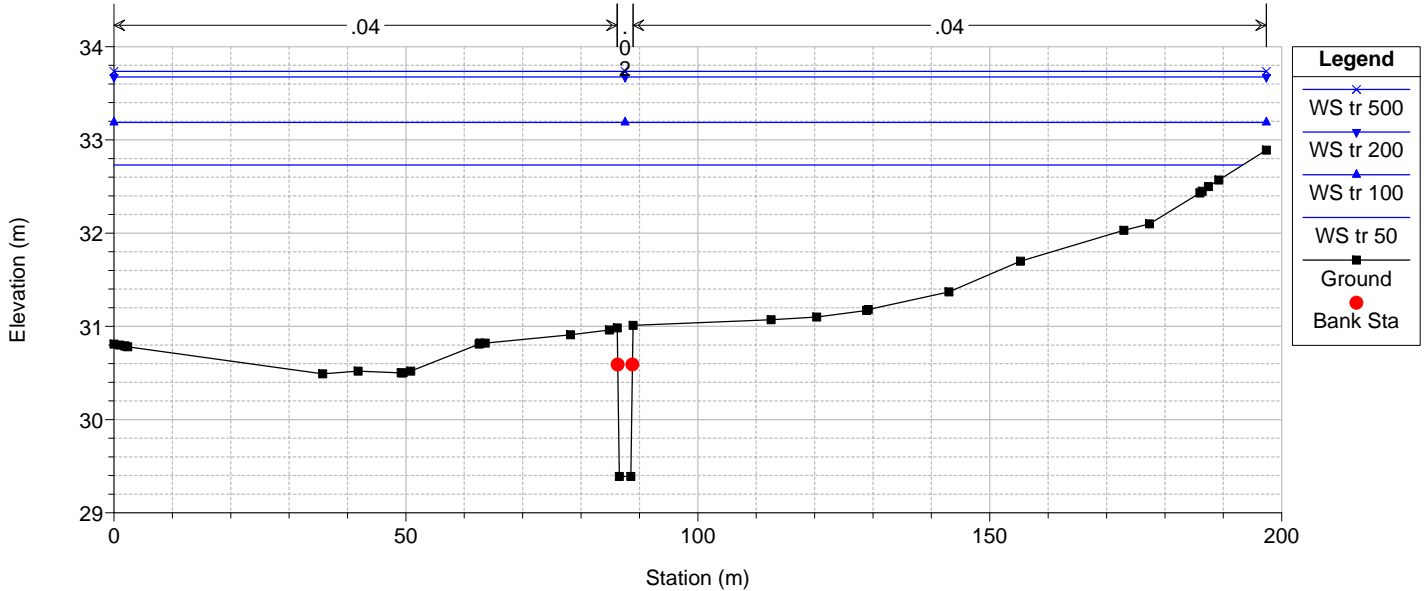
River = Canale urune Reach = 71849 RS = 9027.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

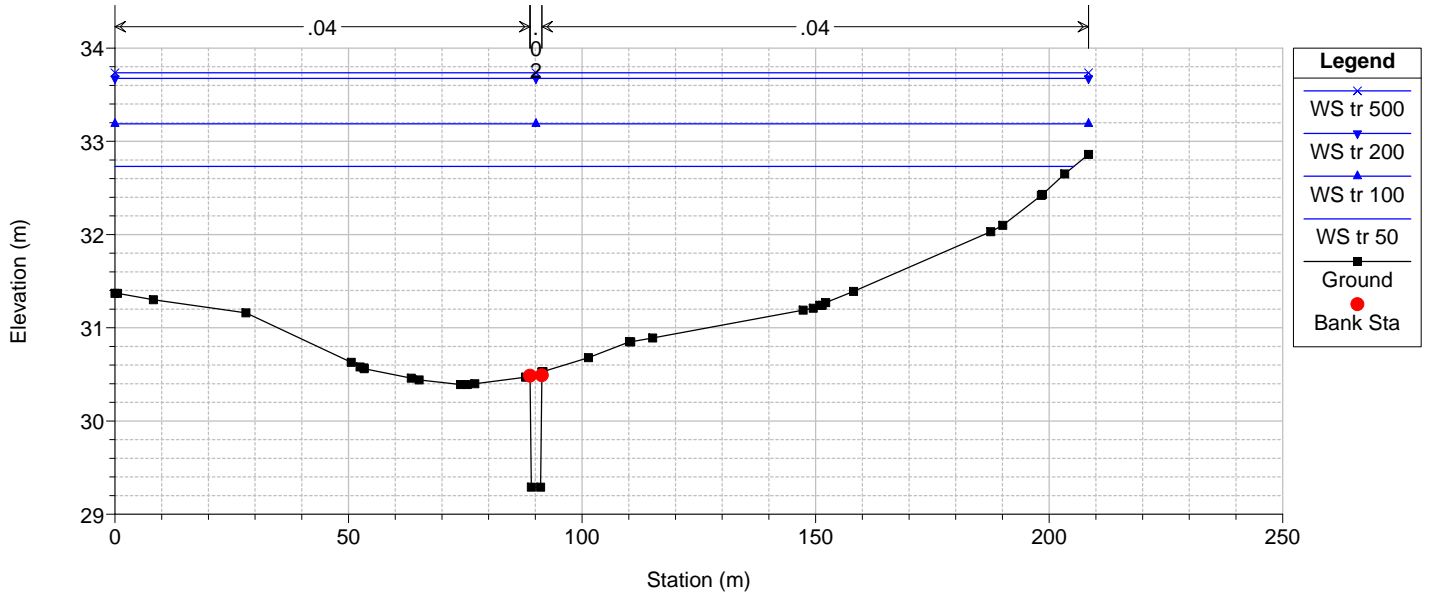
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urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

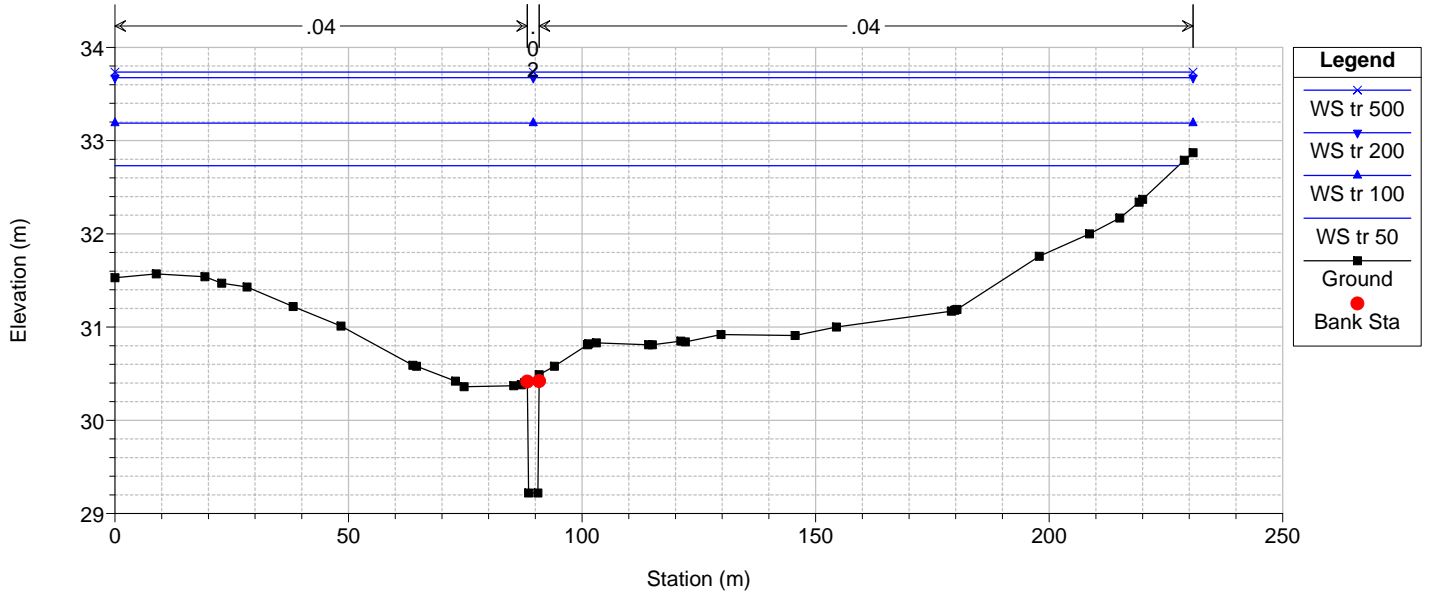
River = Canale urune Reach = 71849 RS = 8967.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

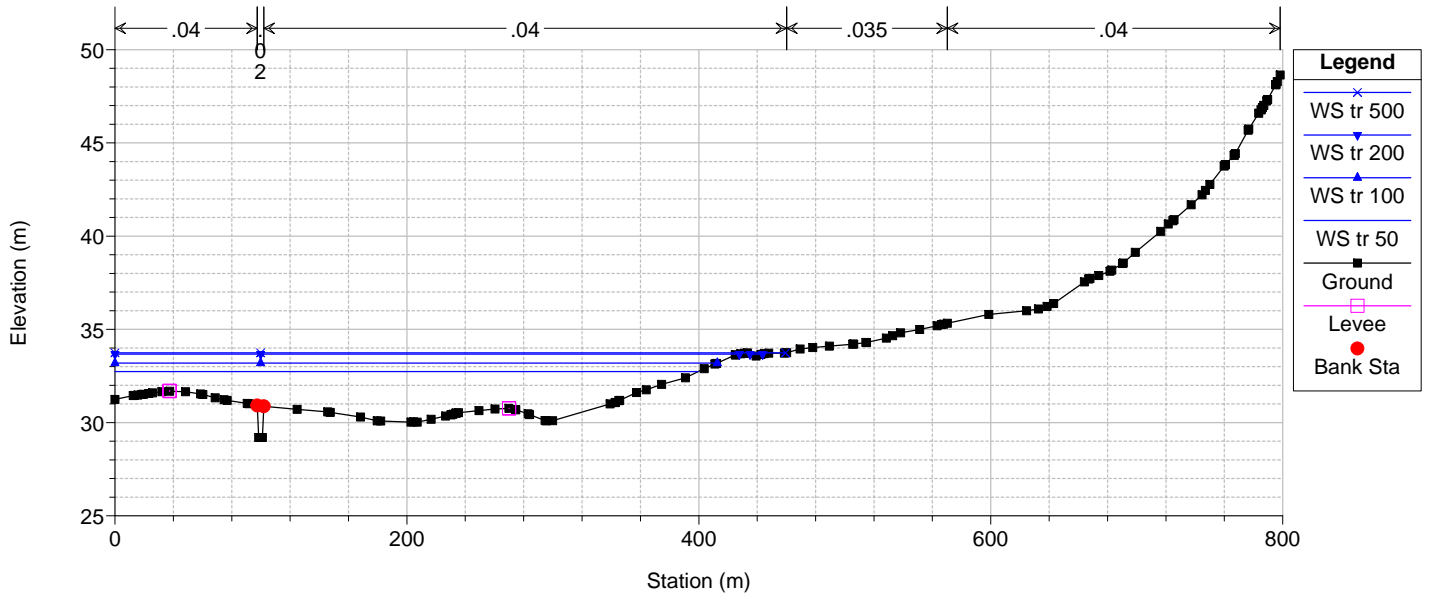
River = Canale urune Reach = 71849 RS = 8937.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

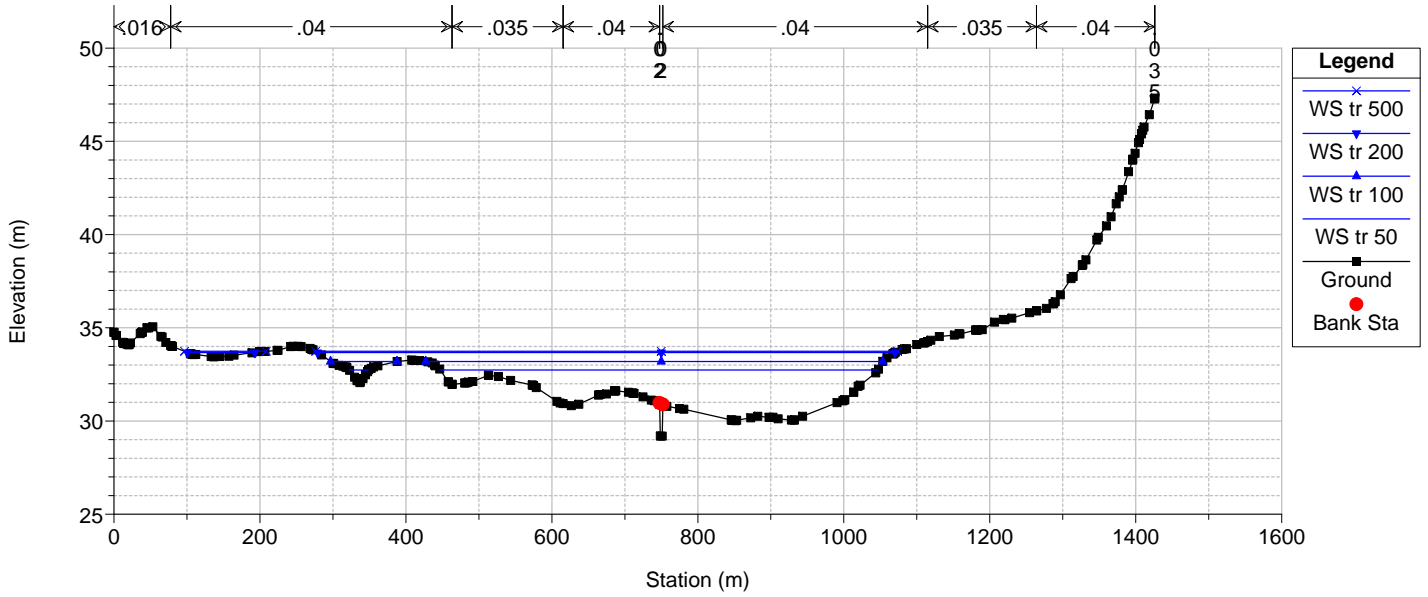
River = Canale urune Reach = Asta 1 RS = 8847.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

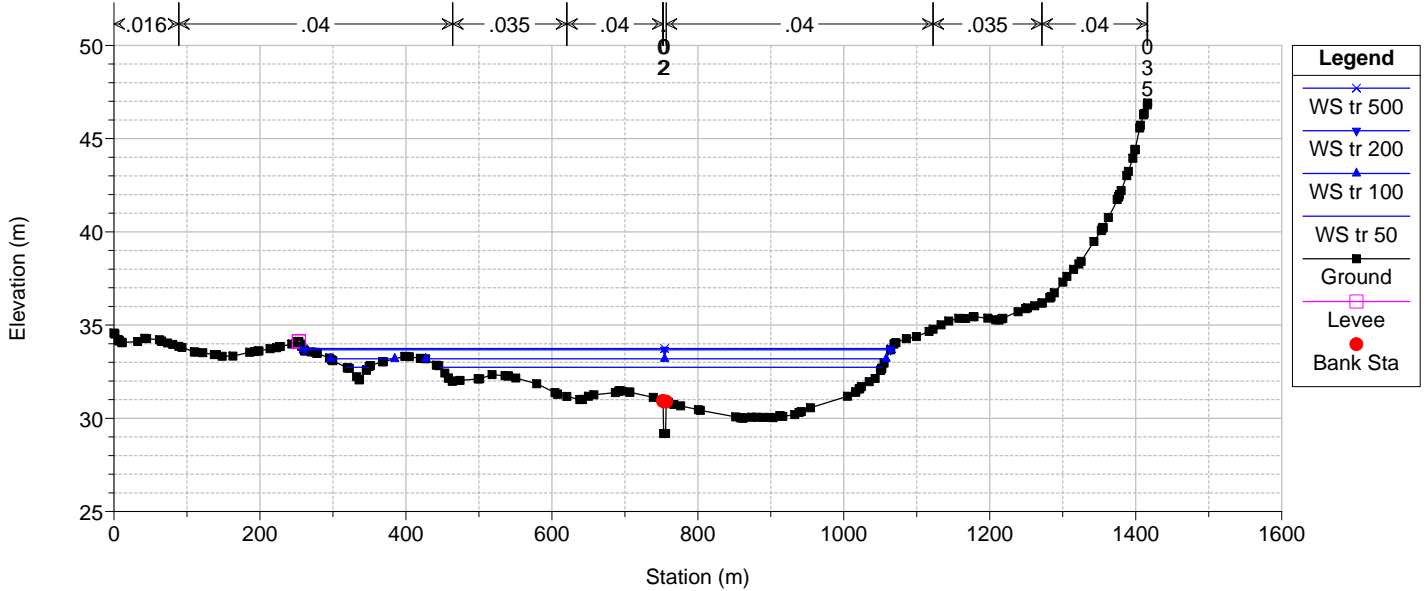
River = Canale urune Reach = Asta 1 RS = 8817.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

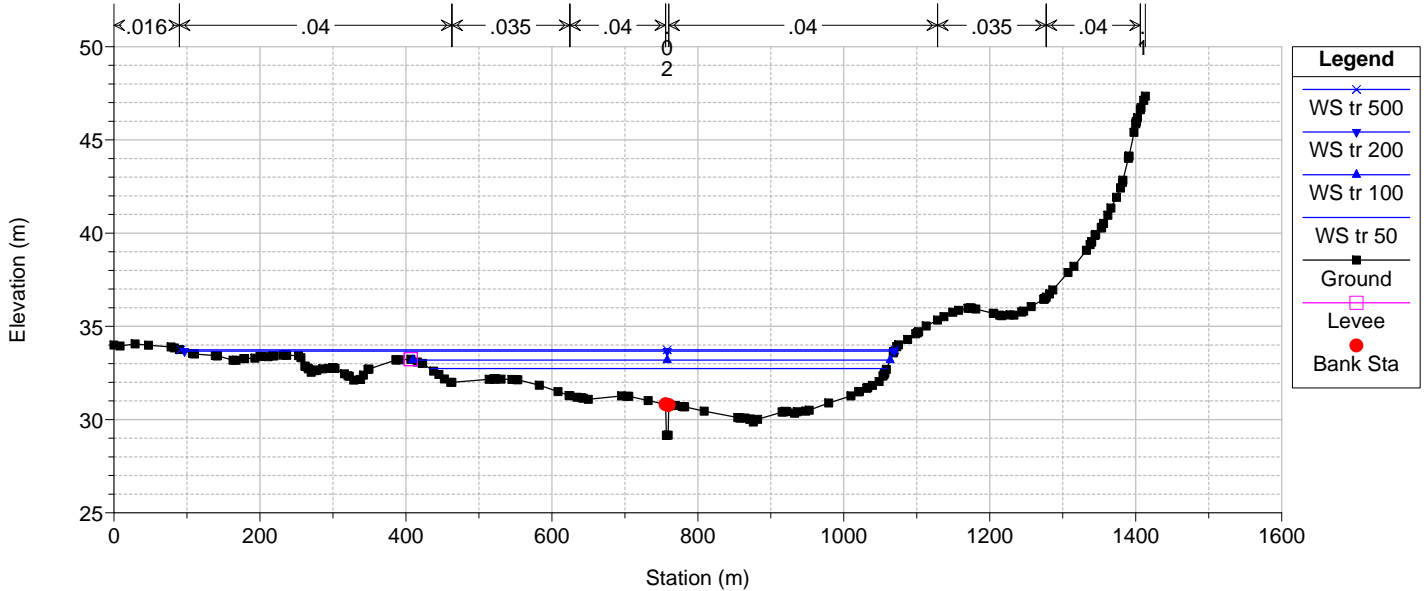
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urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

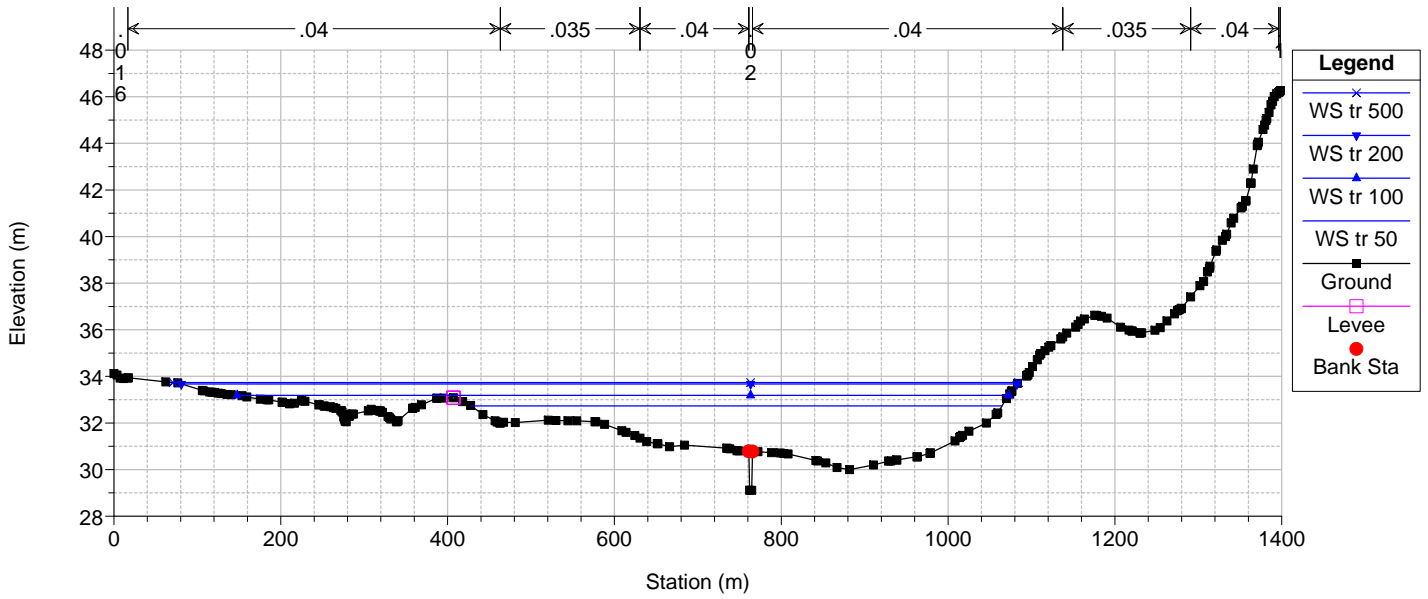
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urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

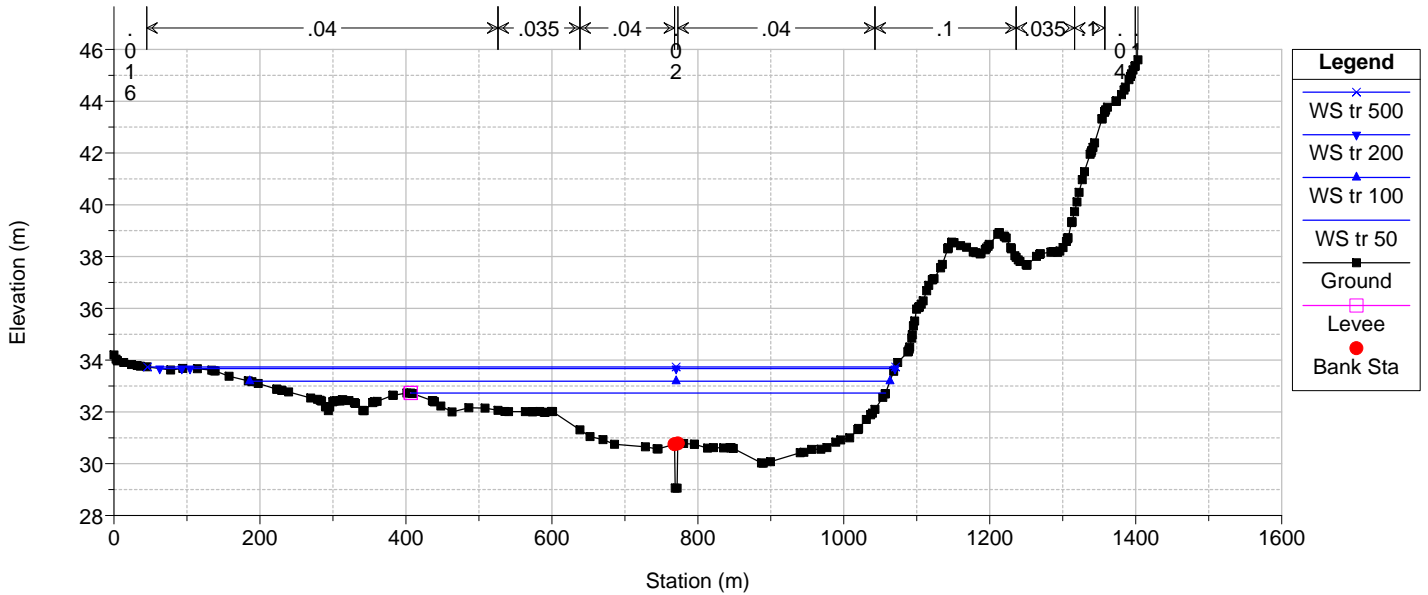
River = Canale urune Reach = Asta 1 RS = 8757.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

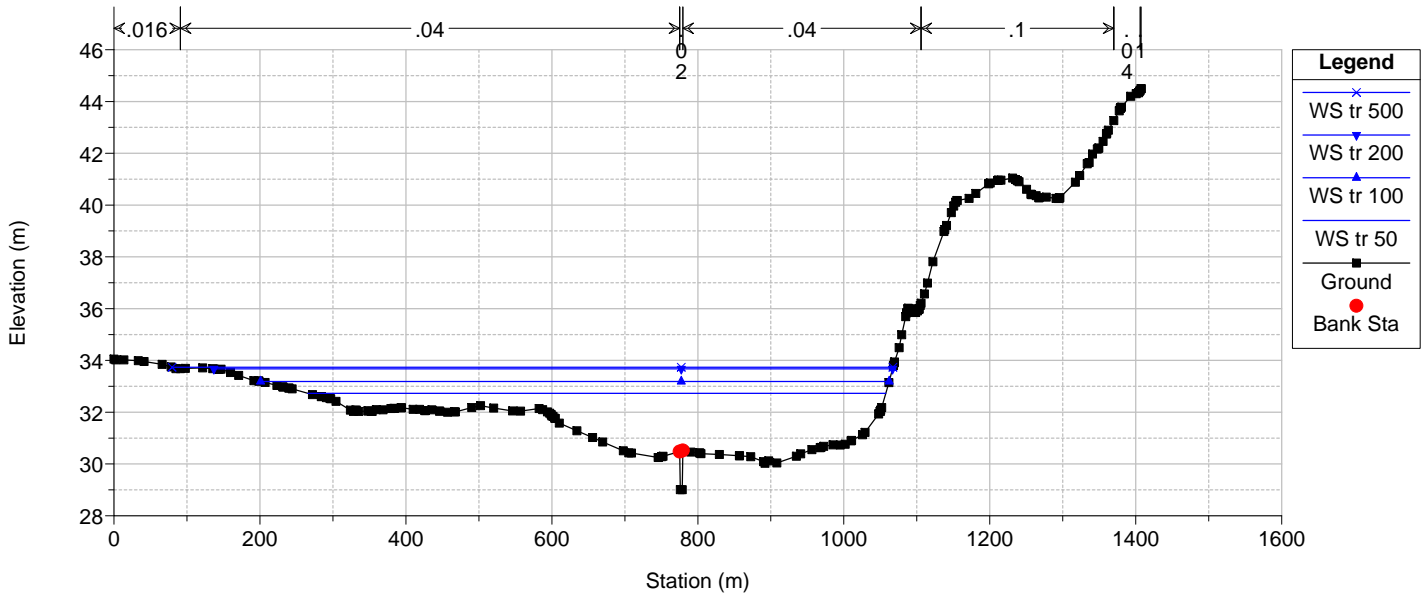
River = Canale urune Reach = Asta 1 RS = 8727.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

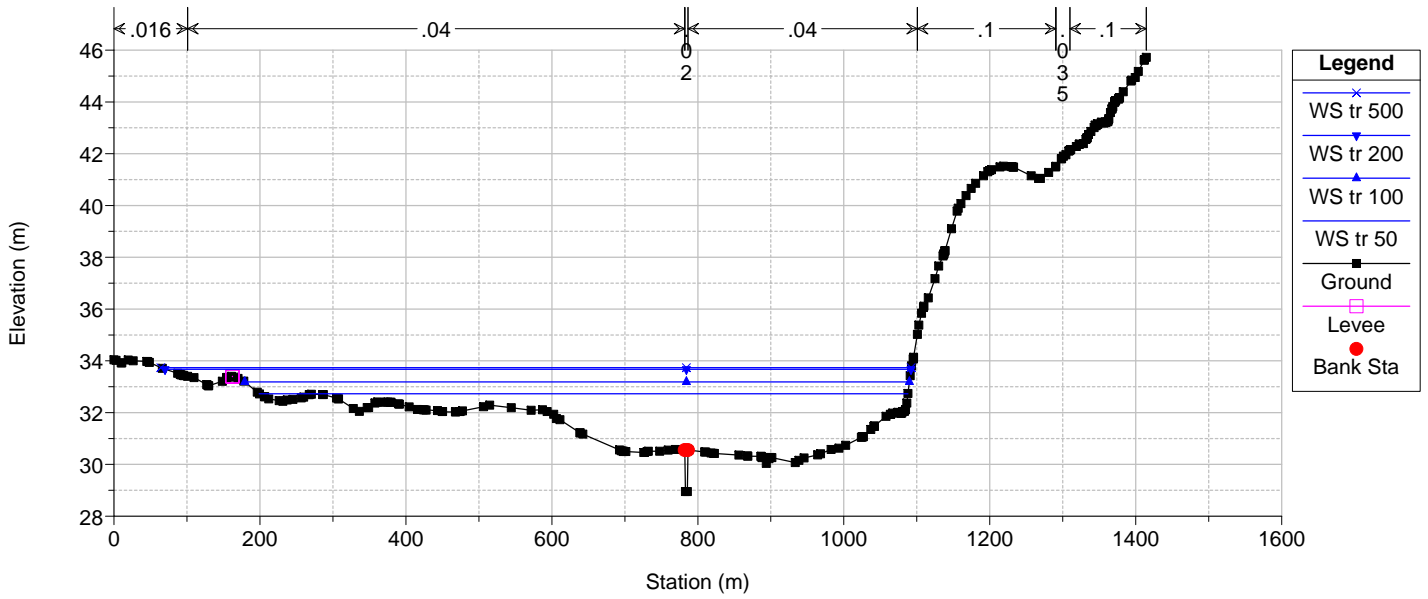
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urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

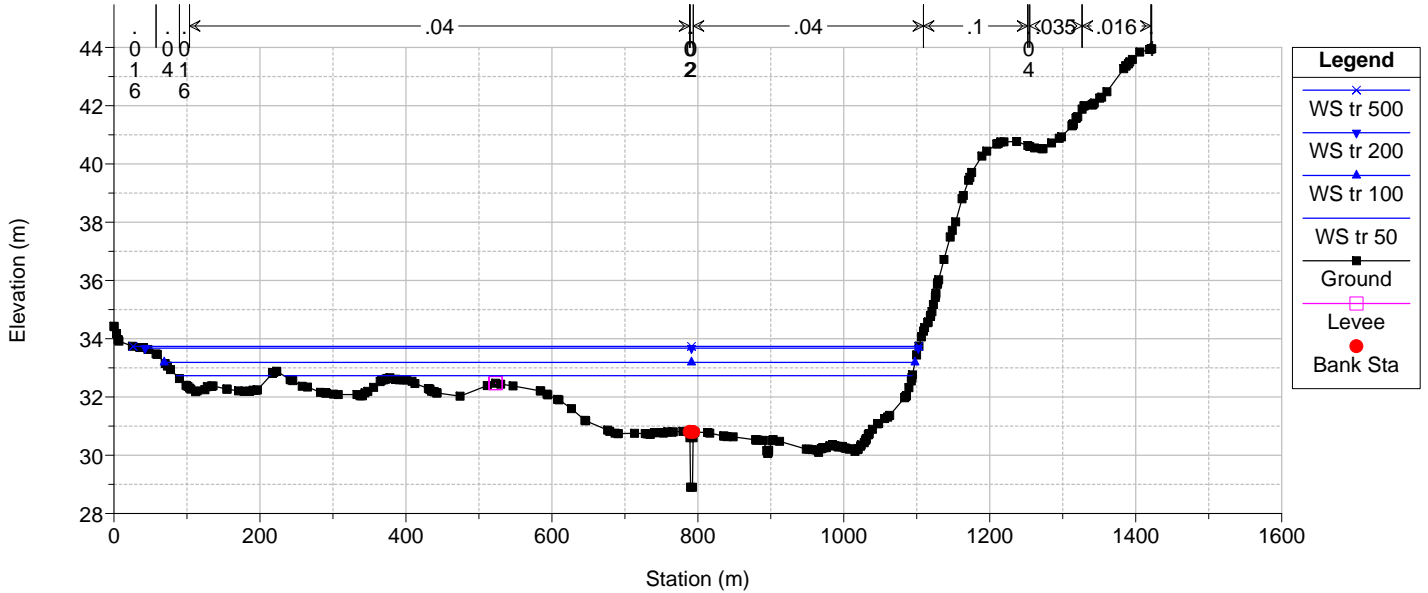
River = Canale urune Reach = Asta 1 RS = 8667.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

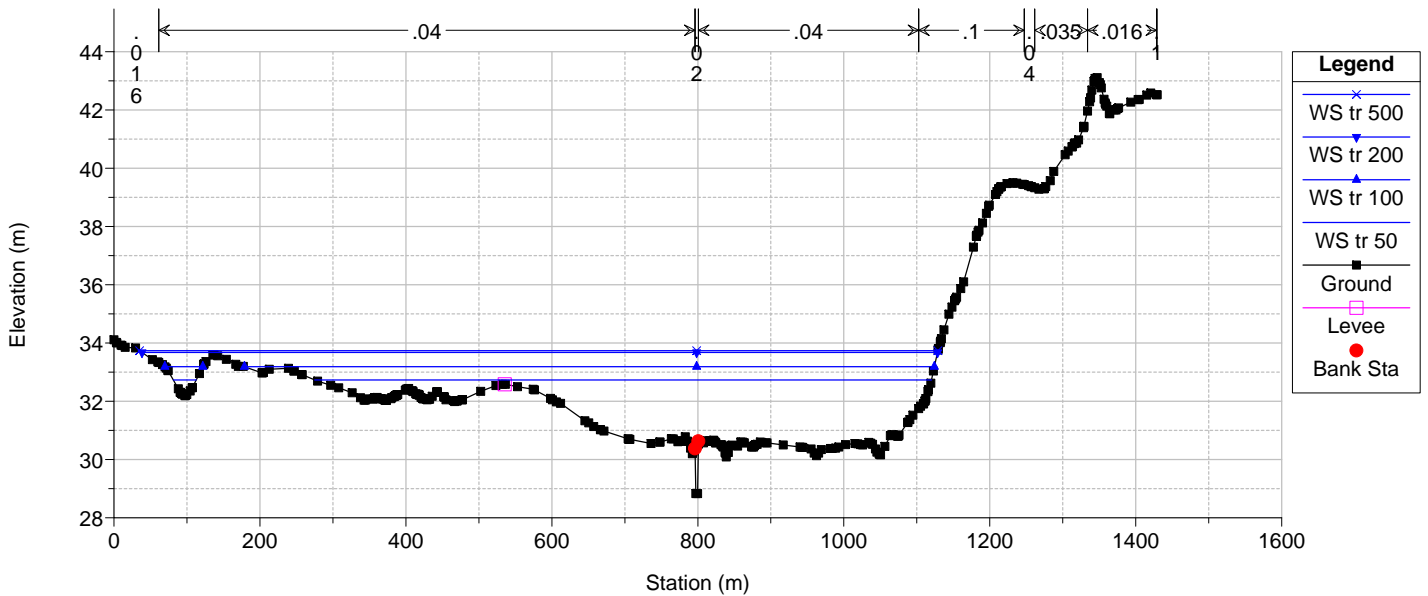
River = Canale urune Reach = Asta 1 RS = 8637.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

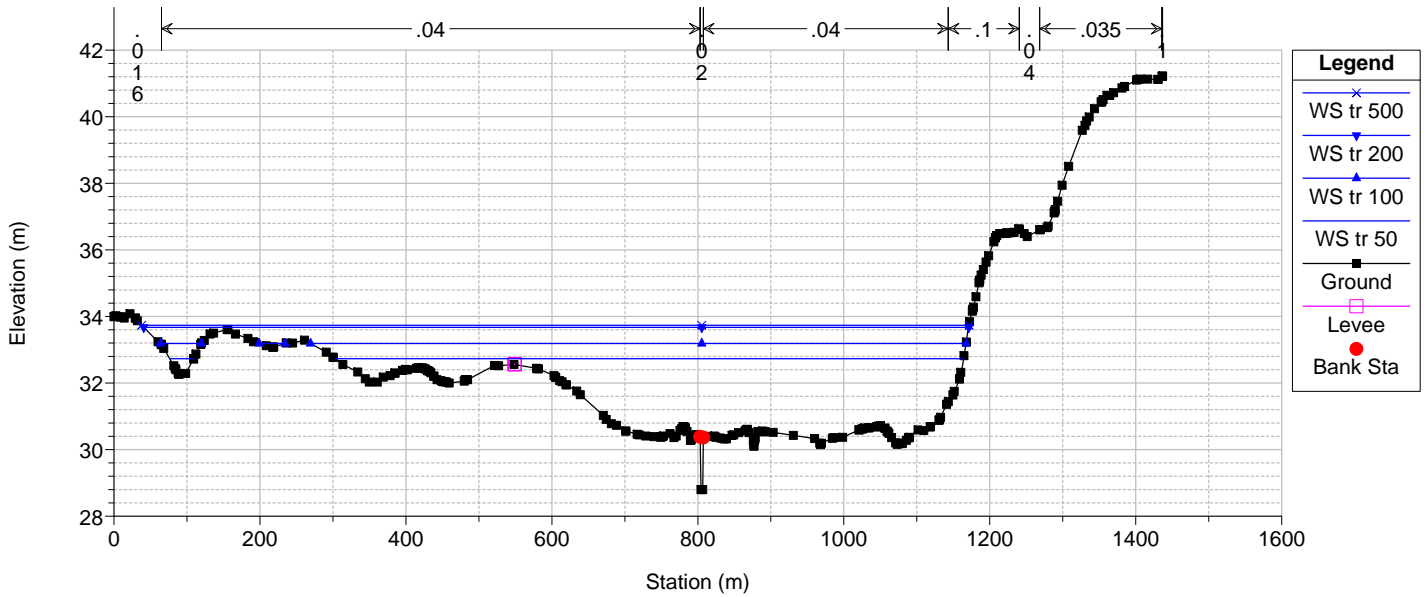
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urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

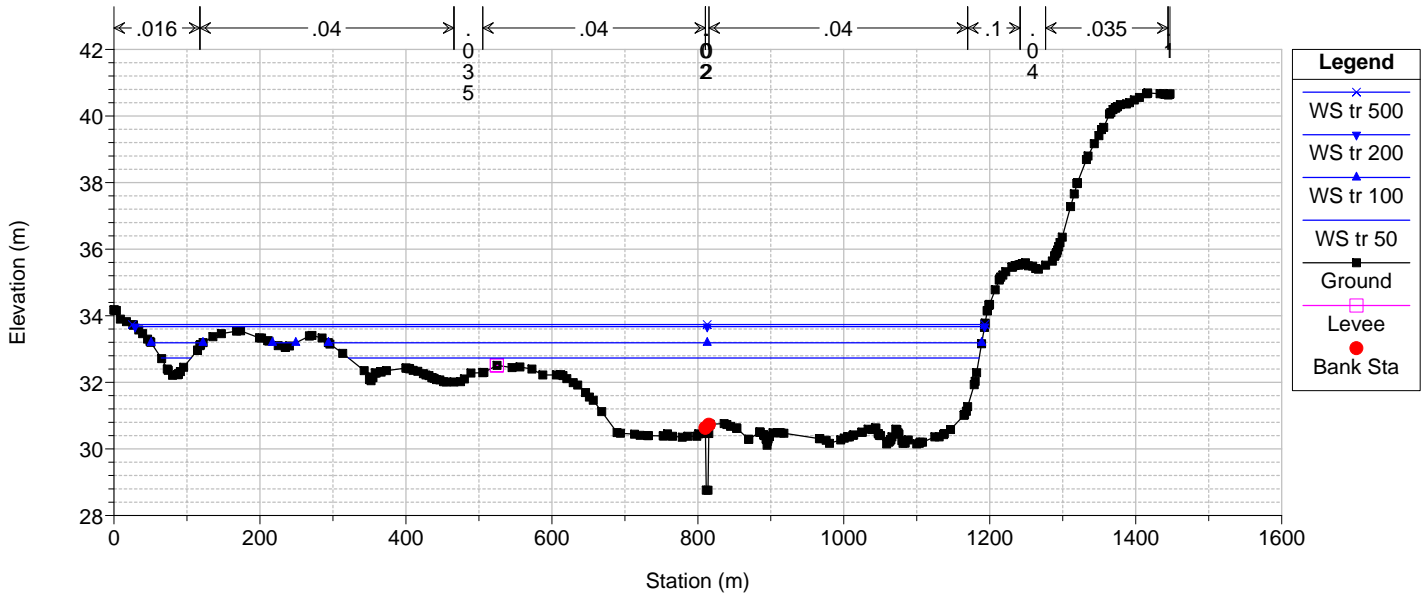
River = Canale urune Reach = Asta 1 RS = 8577.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

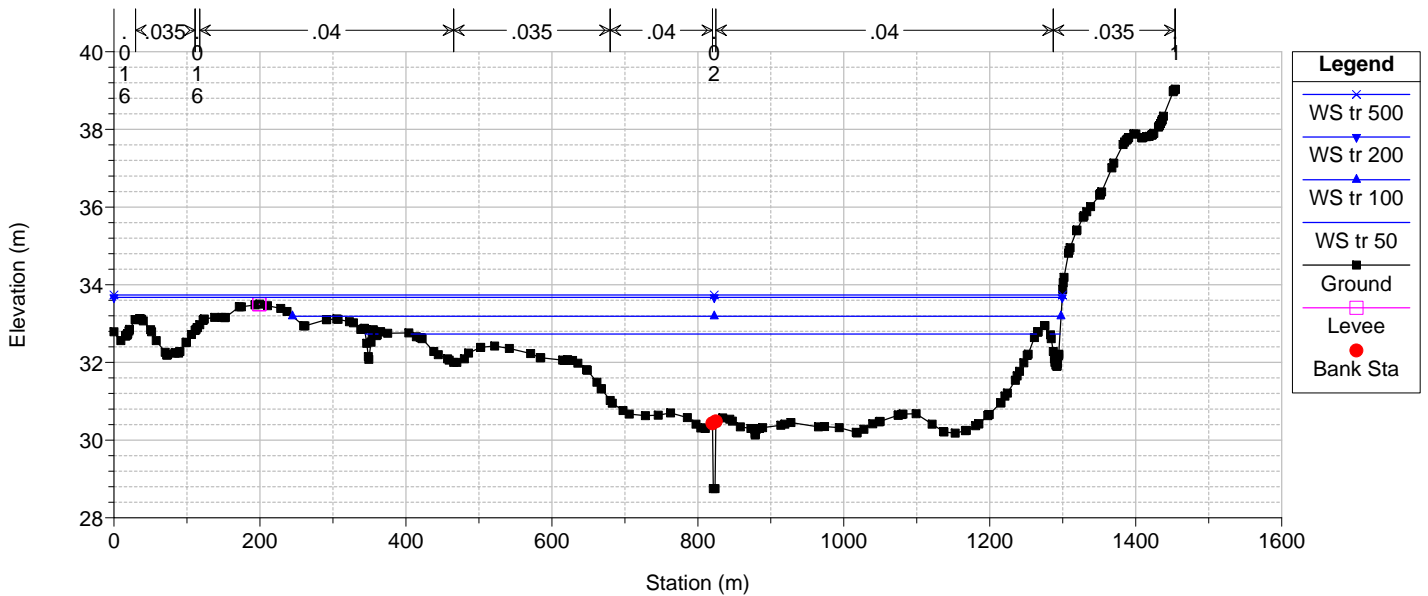
River = Canale urune Reach = Asta 1 RS = 8558.979 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

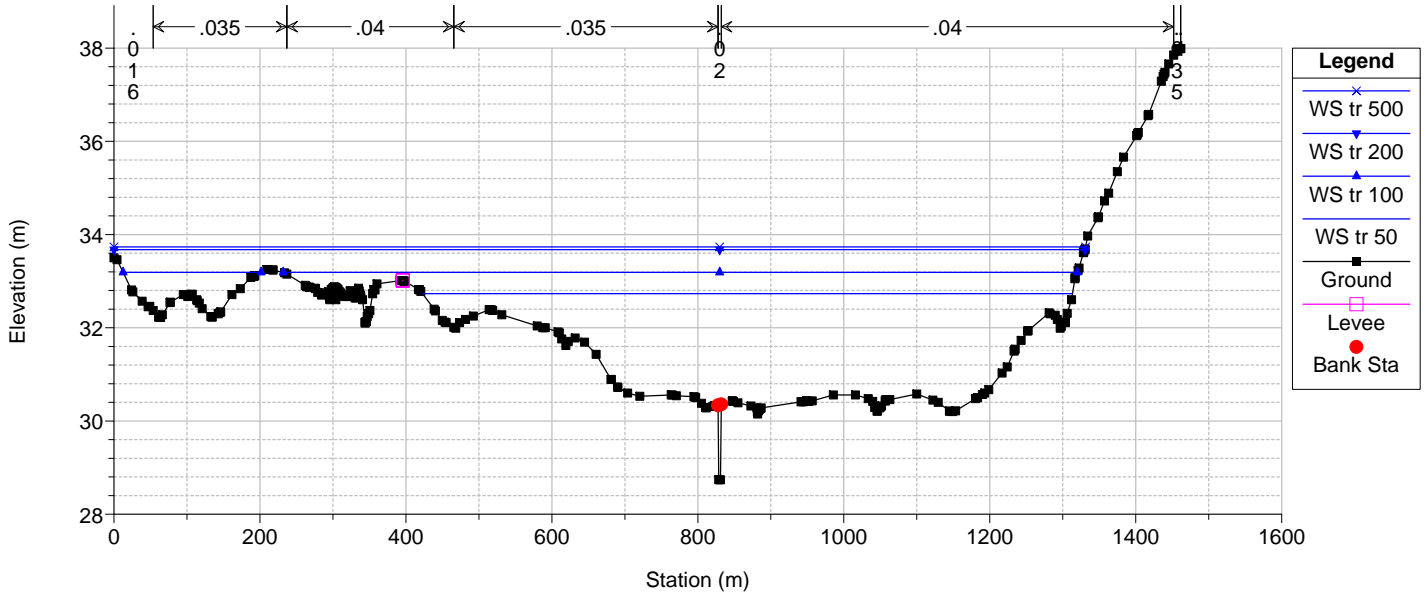
River = Canale urune Reach = Asta 1 RS = 8517.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

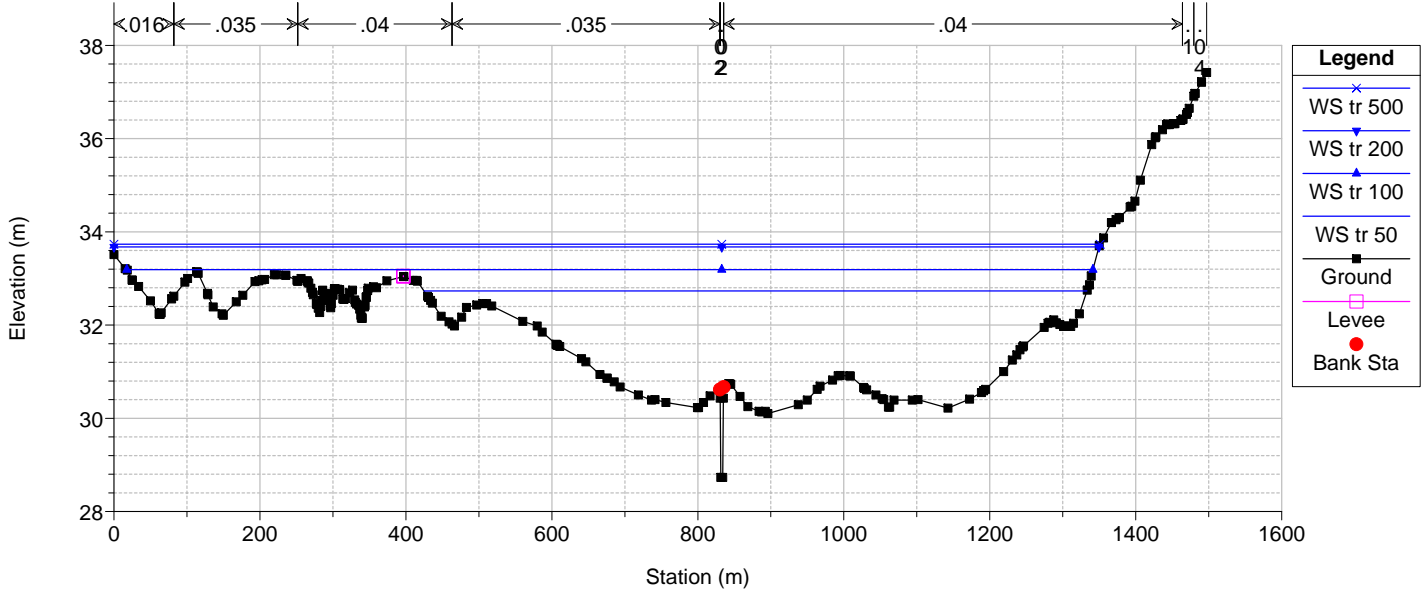
River = Canale urune Reach = Asta 1 RS = 8487.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

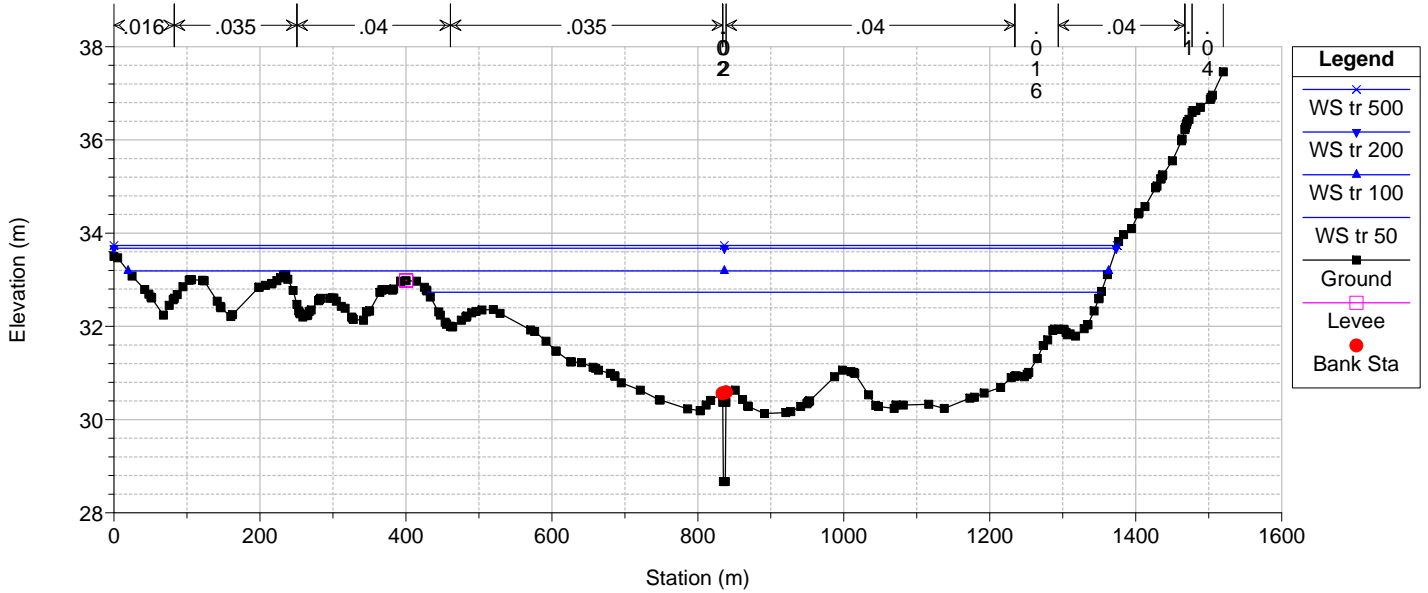
River = Canale urune Reach = Asta 1 RS = 8457.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

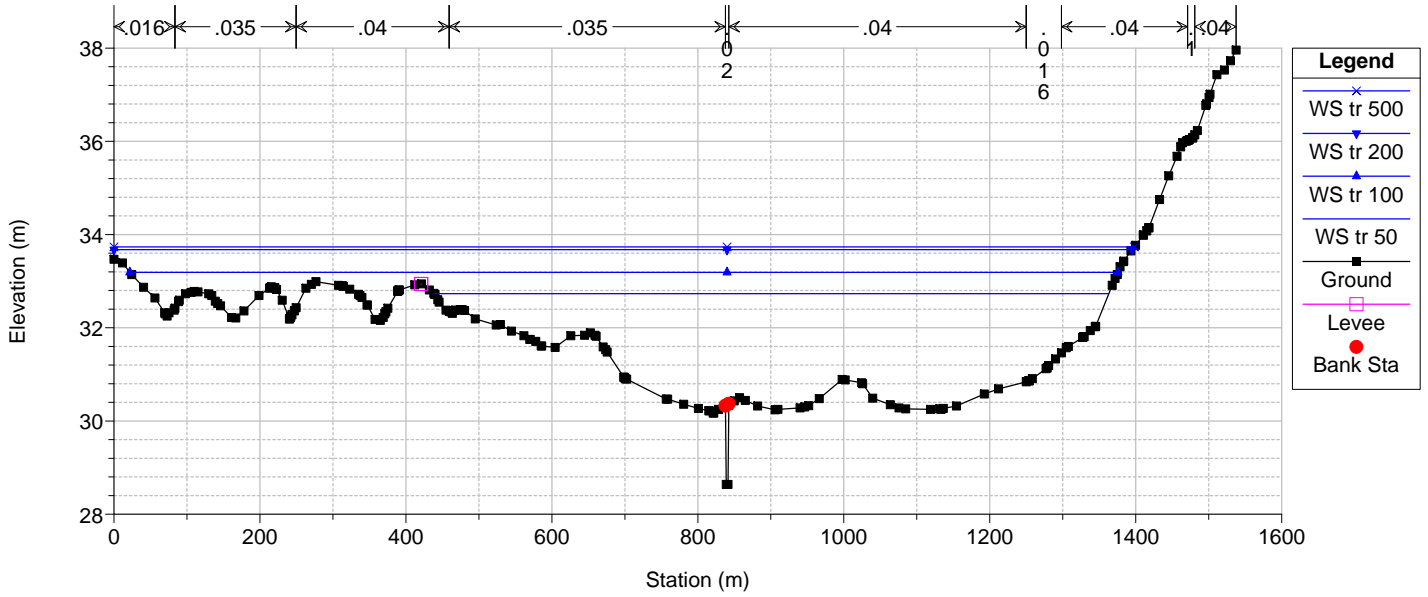
River = Canale urune Reach = Asta 1 RS = 8427.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

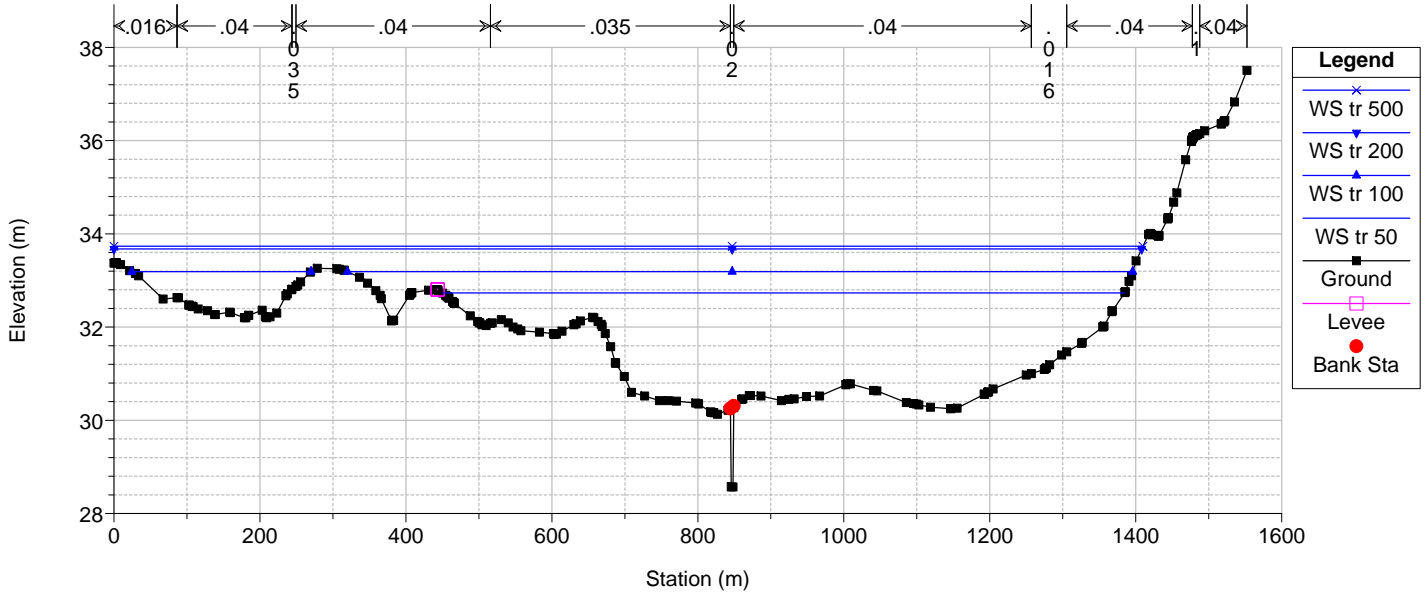
River = Canale urune Reach = Asta 1 RS = 8397.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

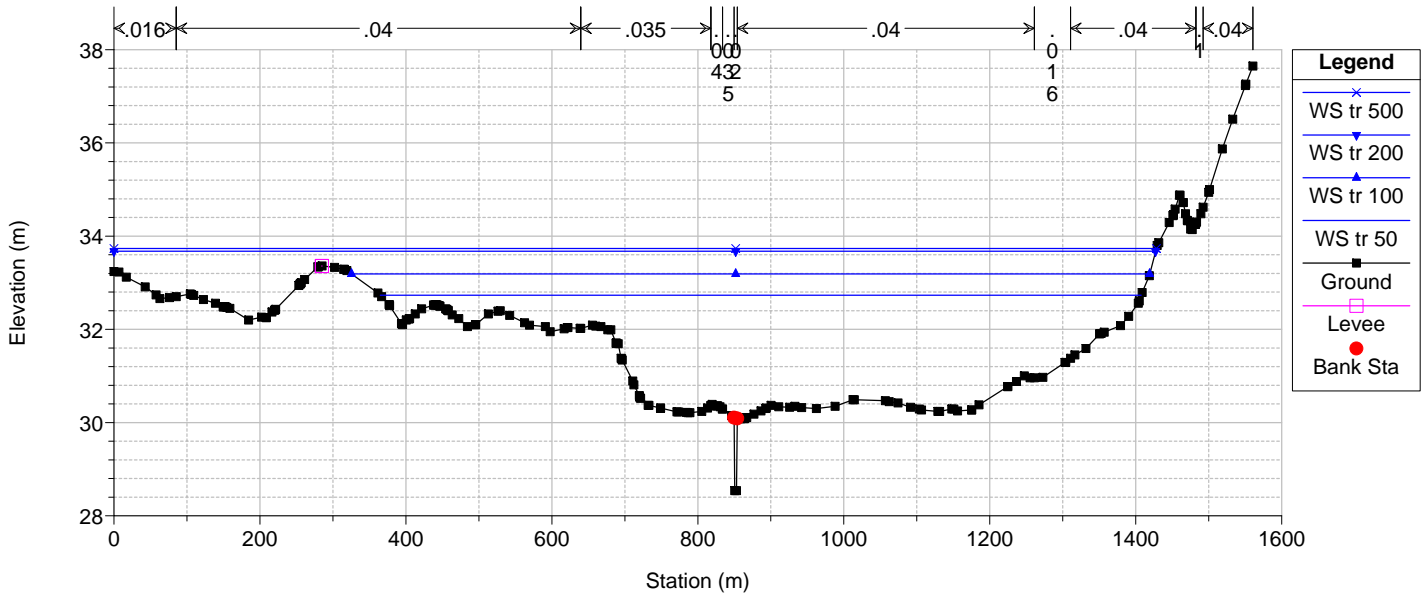
River = Canale urune Reach = Asta 1 RS = 8367.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

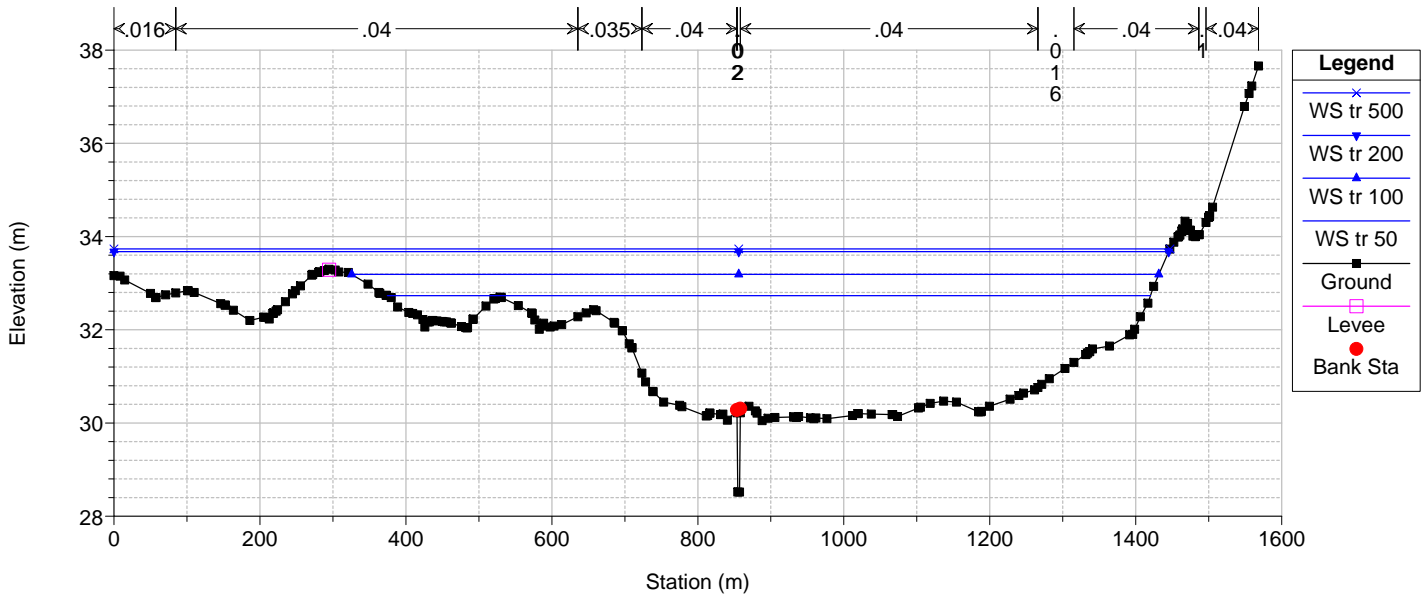
River = Canale urune Reach = Asta 1 RS = 8337.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

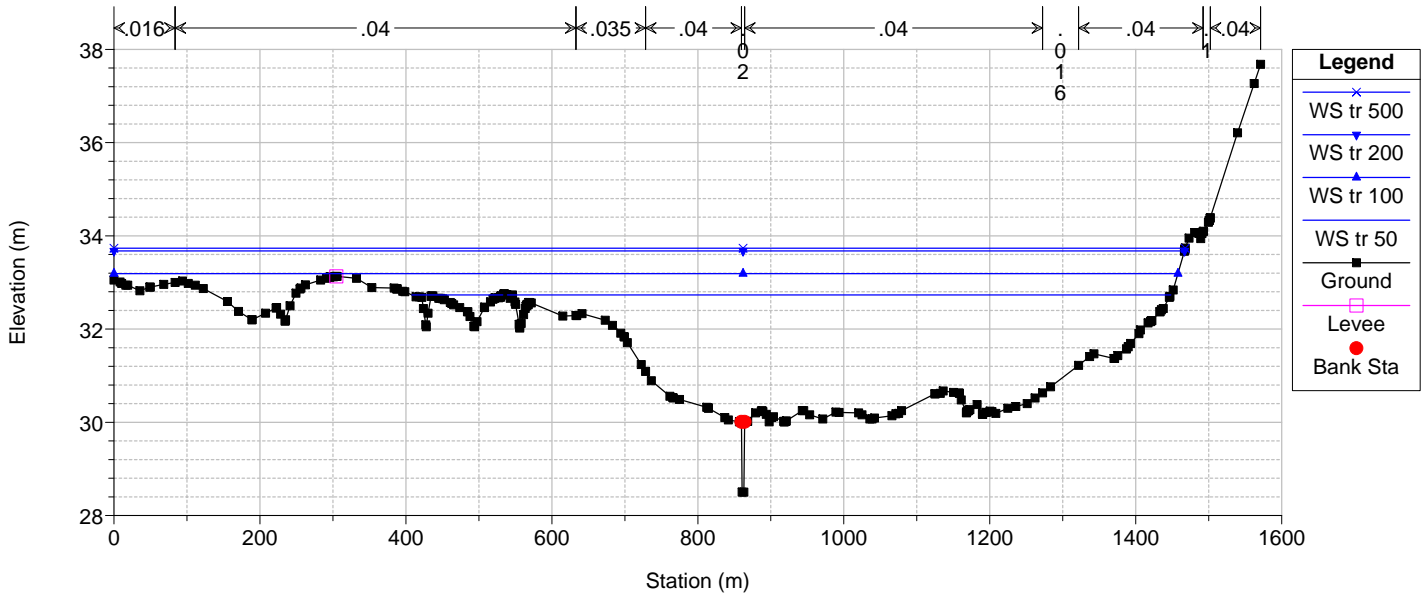
River = Canale urune Reach = Asta 1 RS = 8307.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

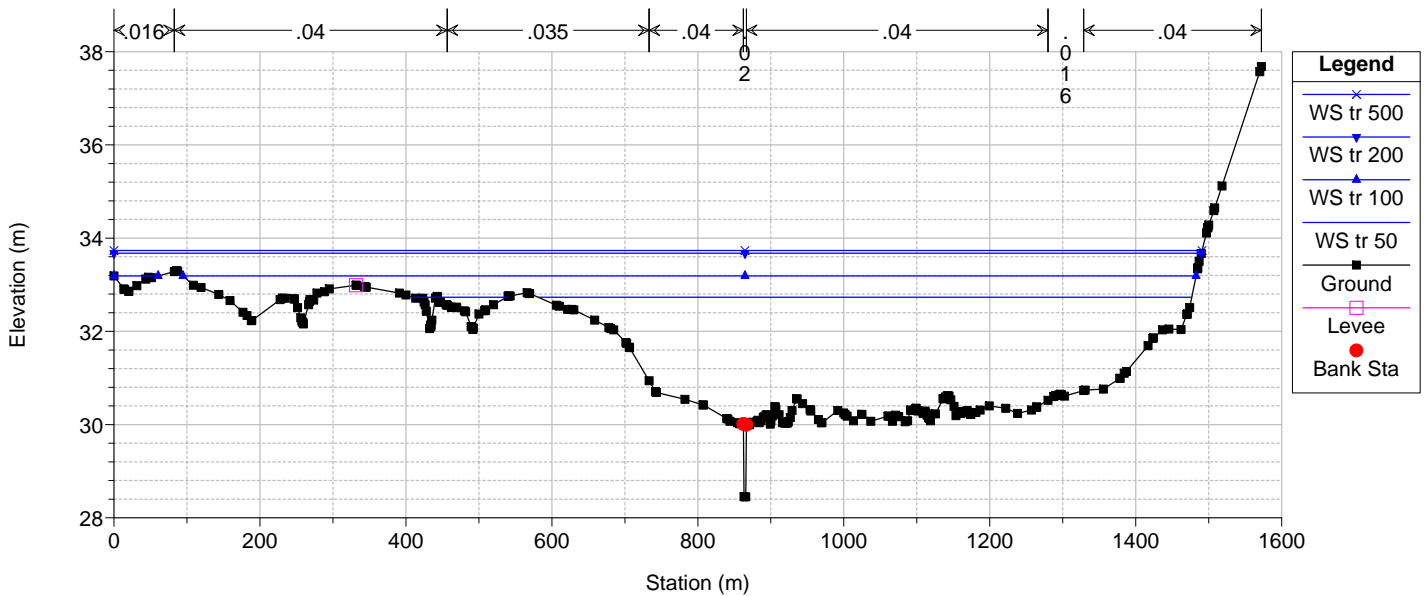
River = Canale urune Reach = Asta 1 RS = 8277.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

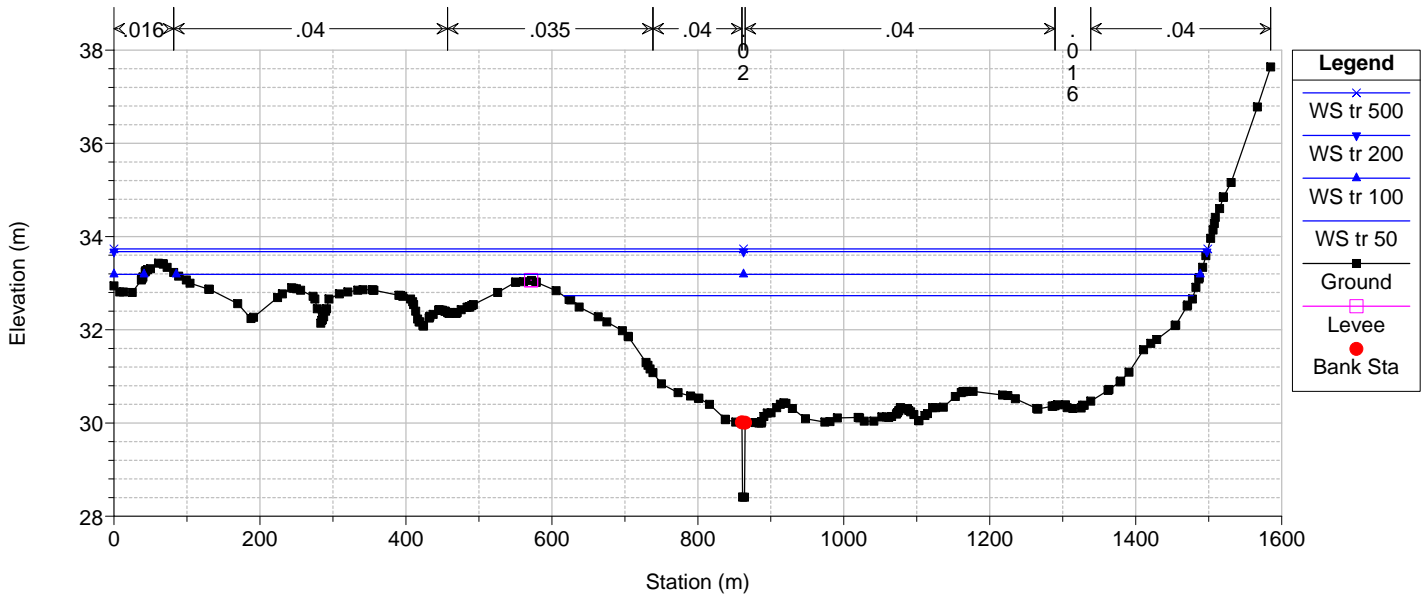
River = Canale urune Reach = Asta 1 RS = 8247.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

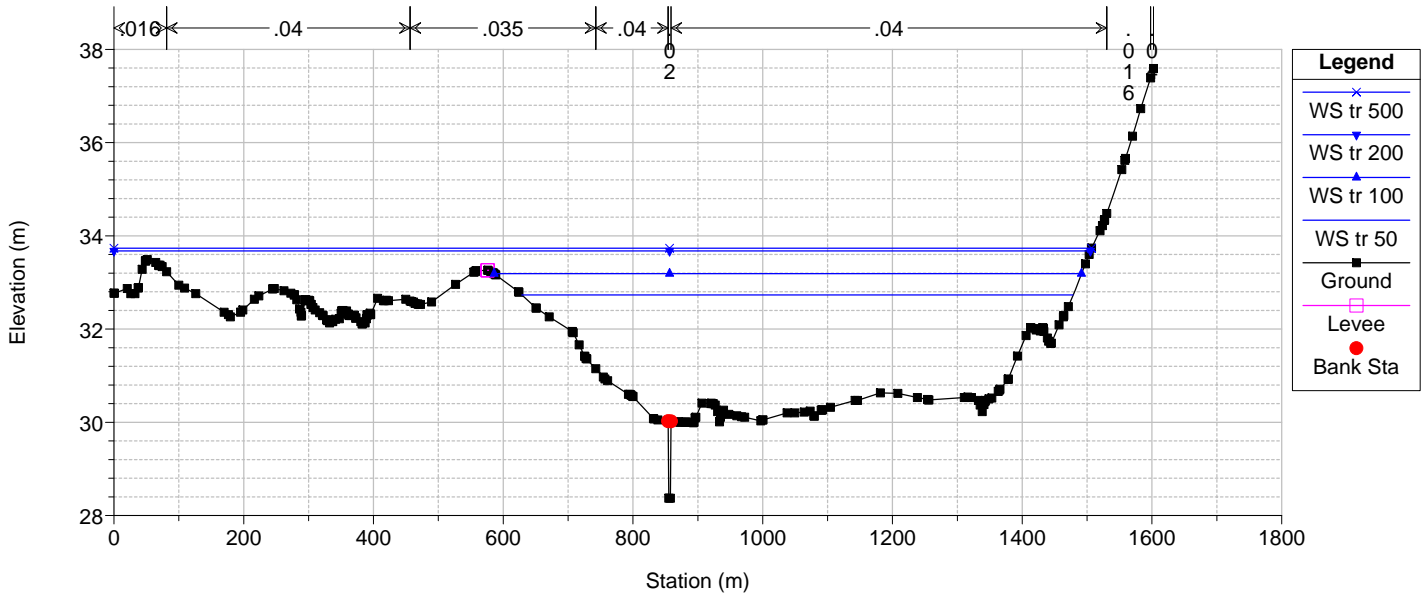
River = Canale urune Reach = Asta 1 RS = 8217.654 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

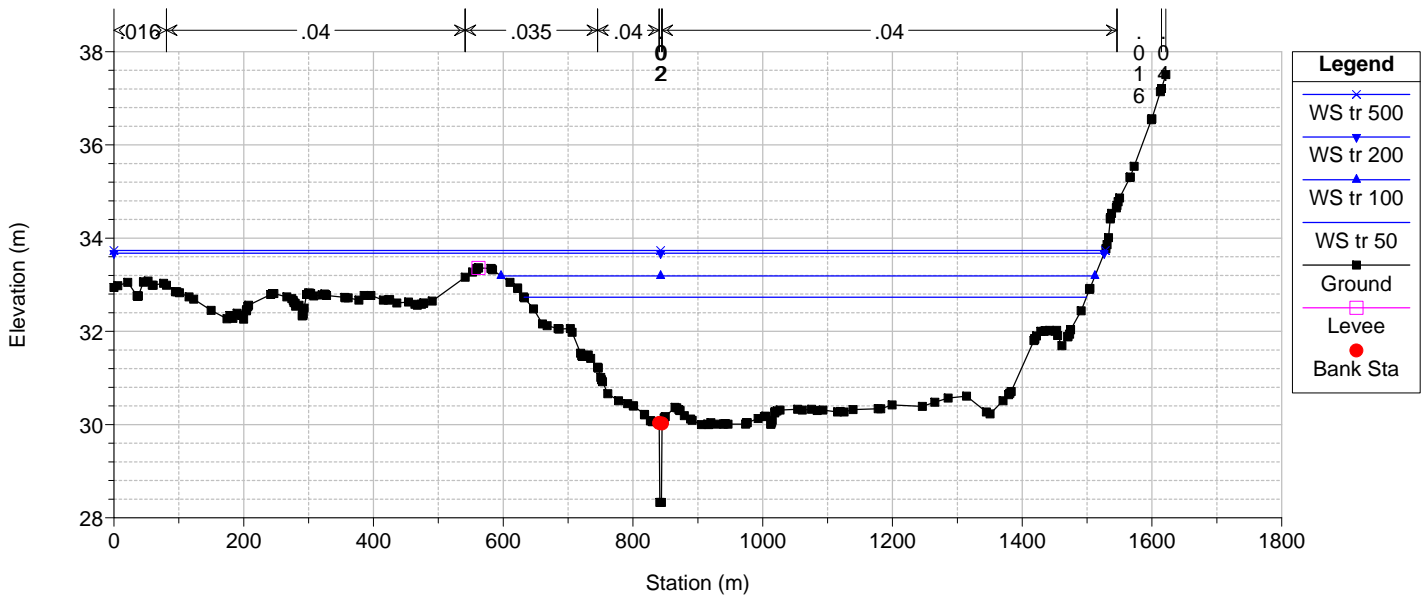
River = Canale urune Reach = Asta 1 RS = 8187.654 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

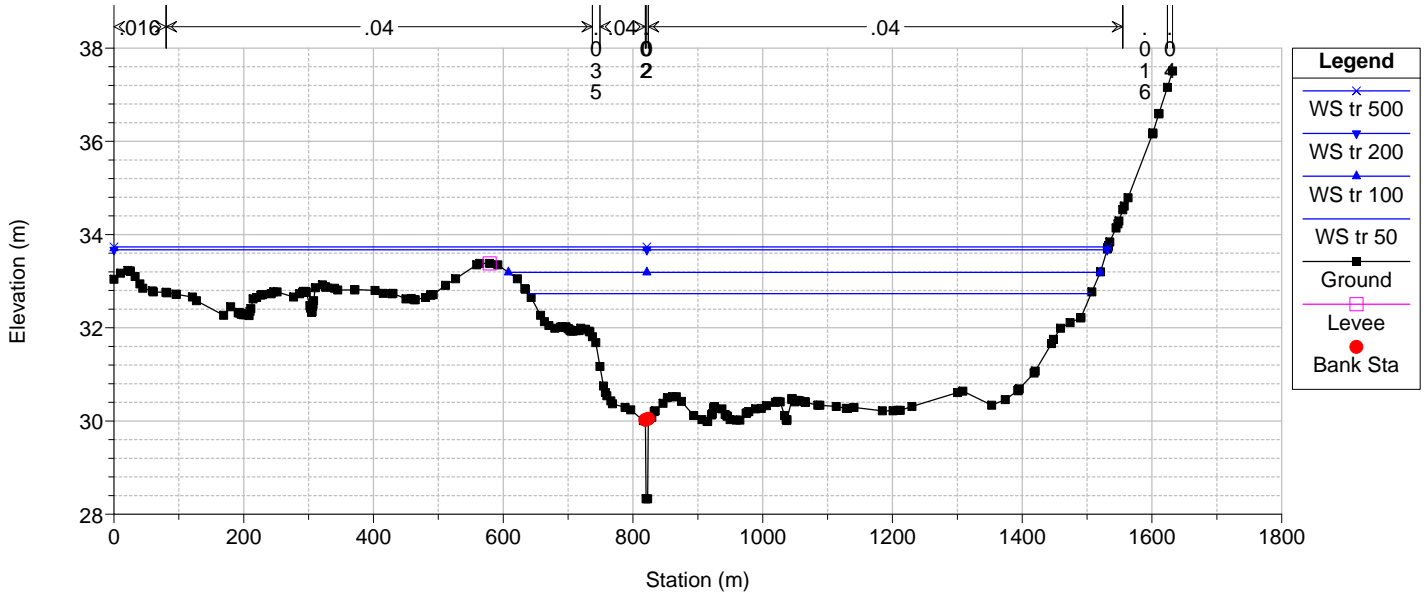
River = Canale urune Reach = Asta 1 RS = 8157.654 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

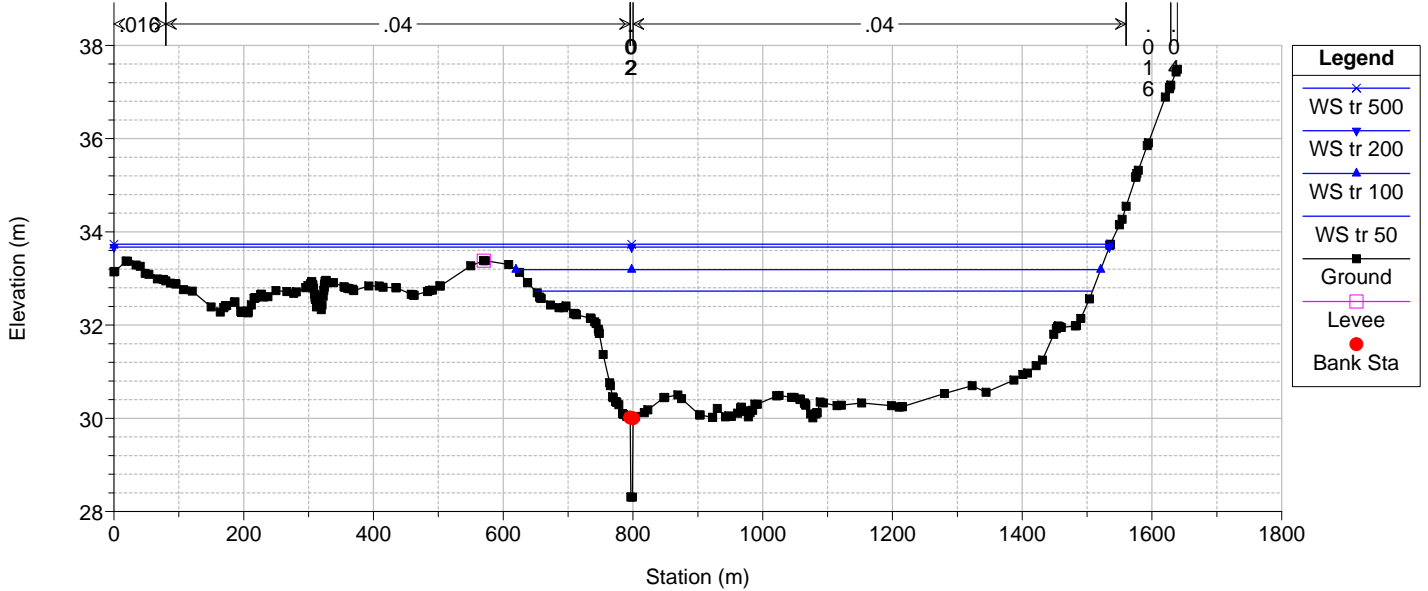
River = Canale urune Reach = Asta 1 RS = 8127.653 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

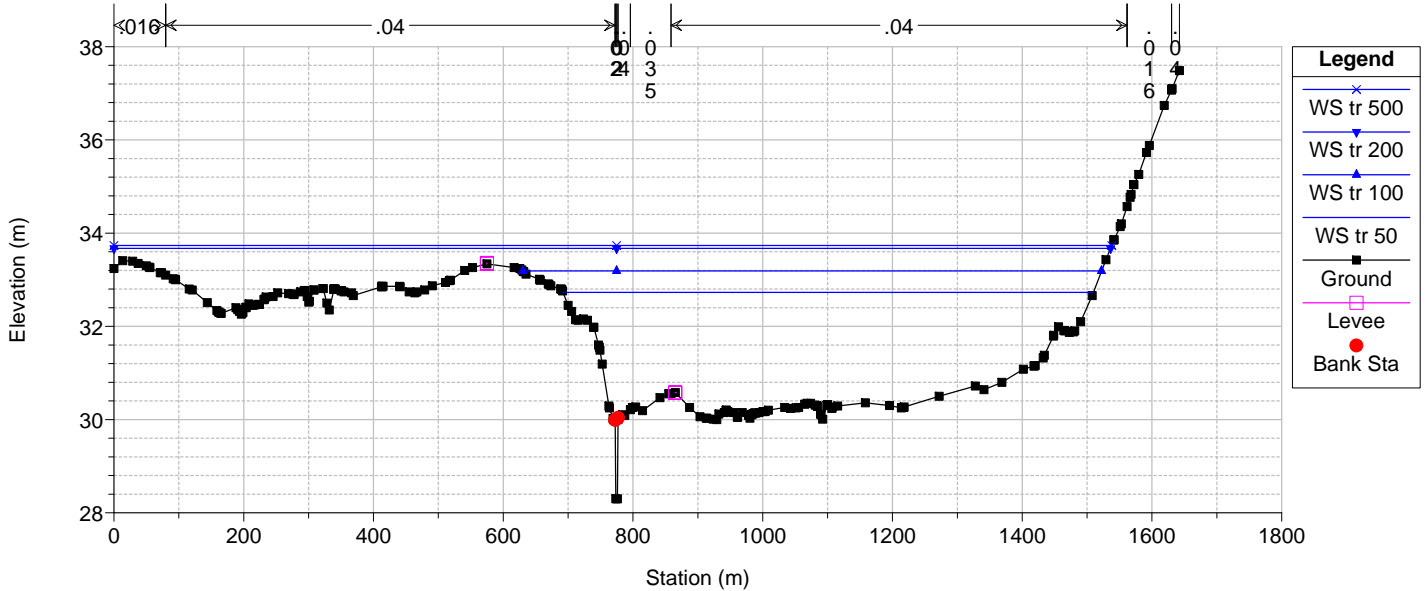
River = Canale urune Reach = Asta 1 RS = 8097.653 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

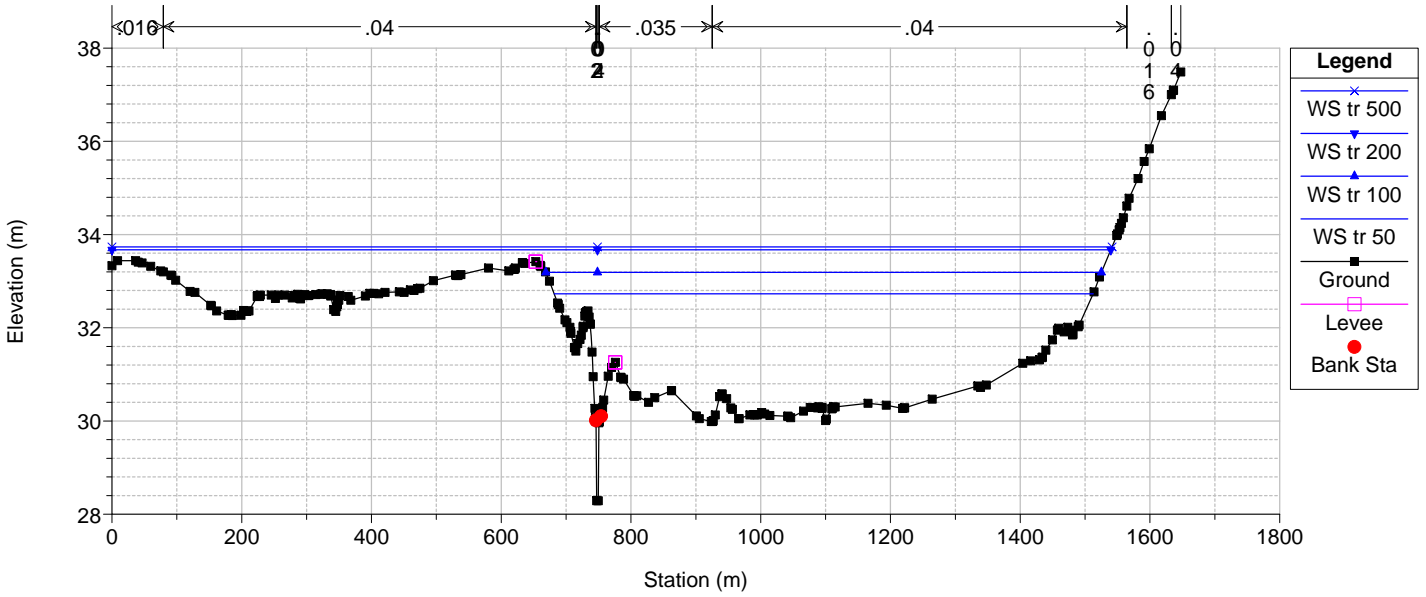
River = Canale urune Reach = Asta 1 RS = 8067.653 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

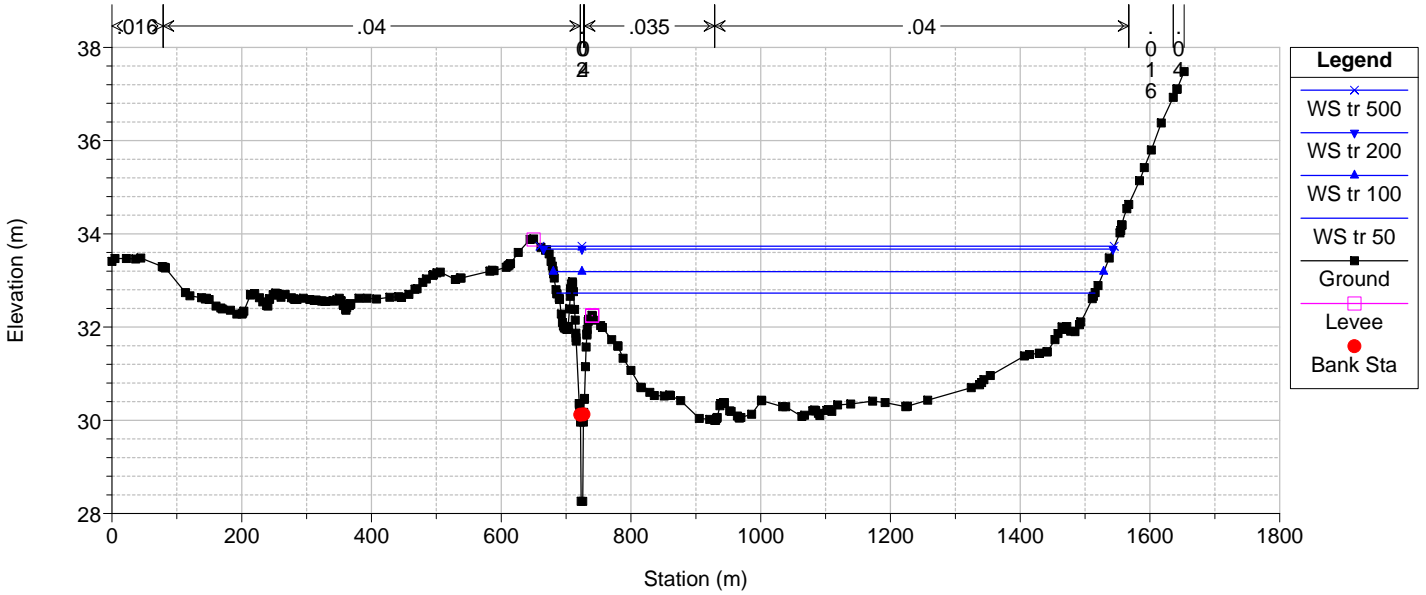
River = Canale urune Reach = Asta 1 RS = 8037.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

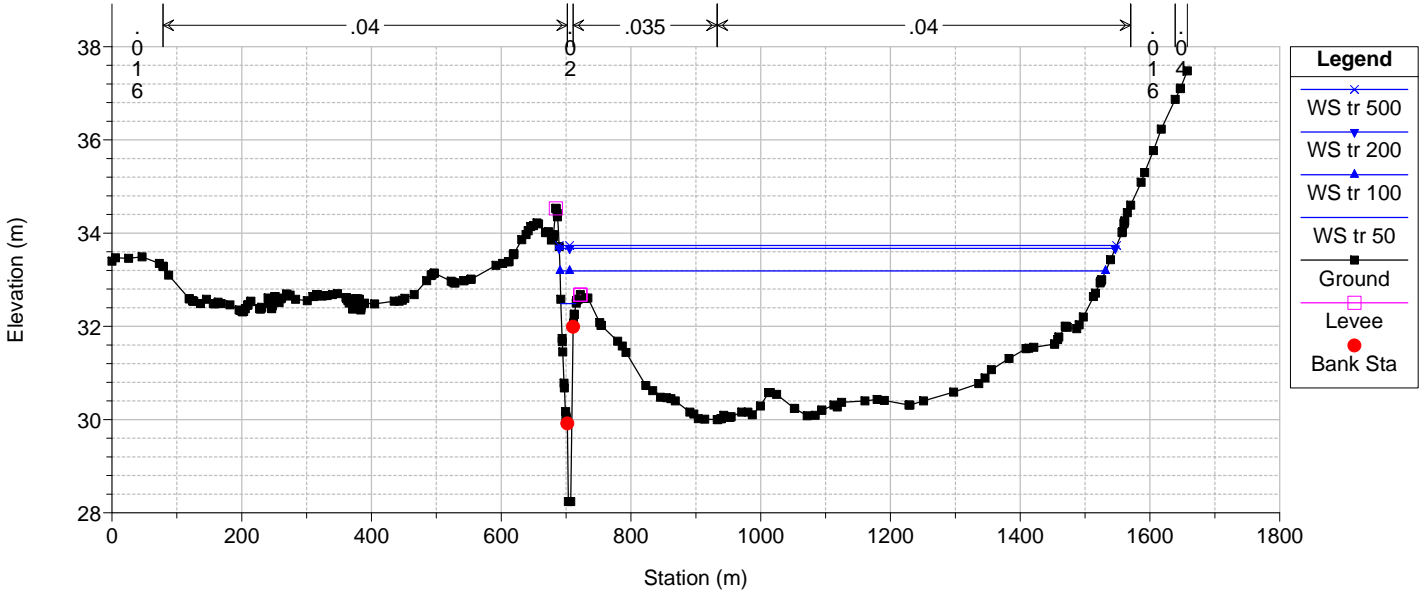
River = Canale urune Reach = Asta 1 RS = 8007.653 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

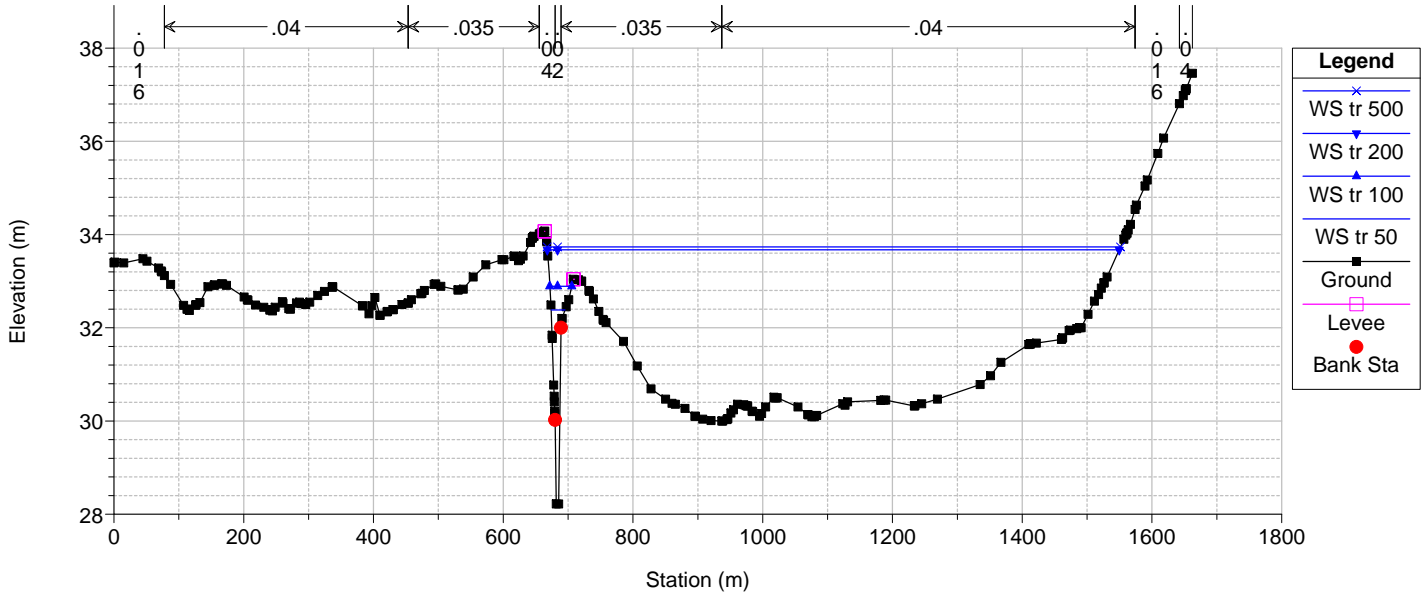
River = Canale urune Reach = Asta 1 RS = 7977.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

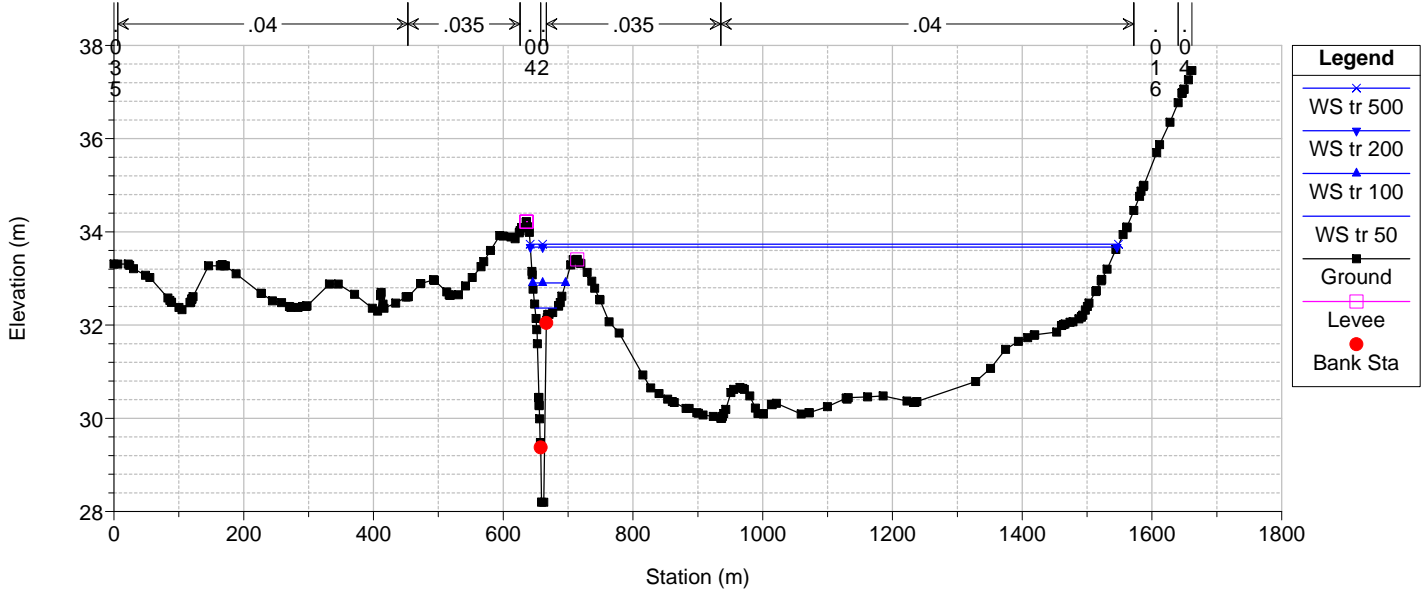
River = Canale urune Reach = Asta 1 RS = 7947.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

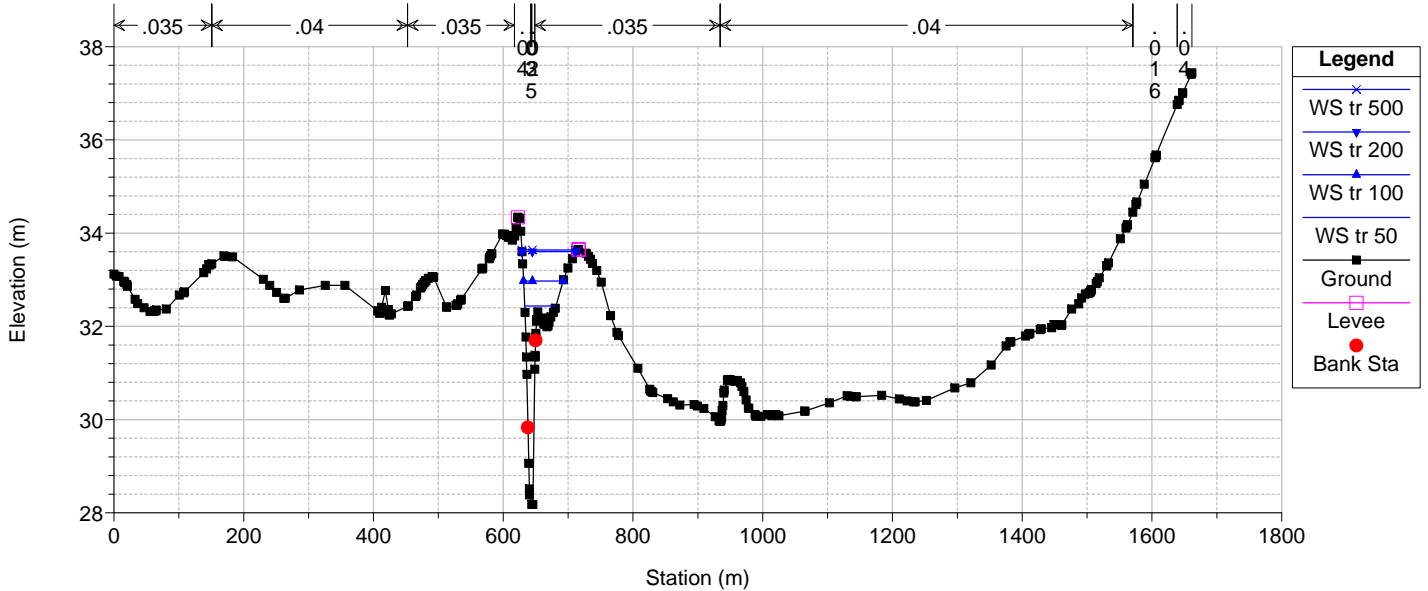
River = Canale urune Reach = Asta 1 RS = 7917.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

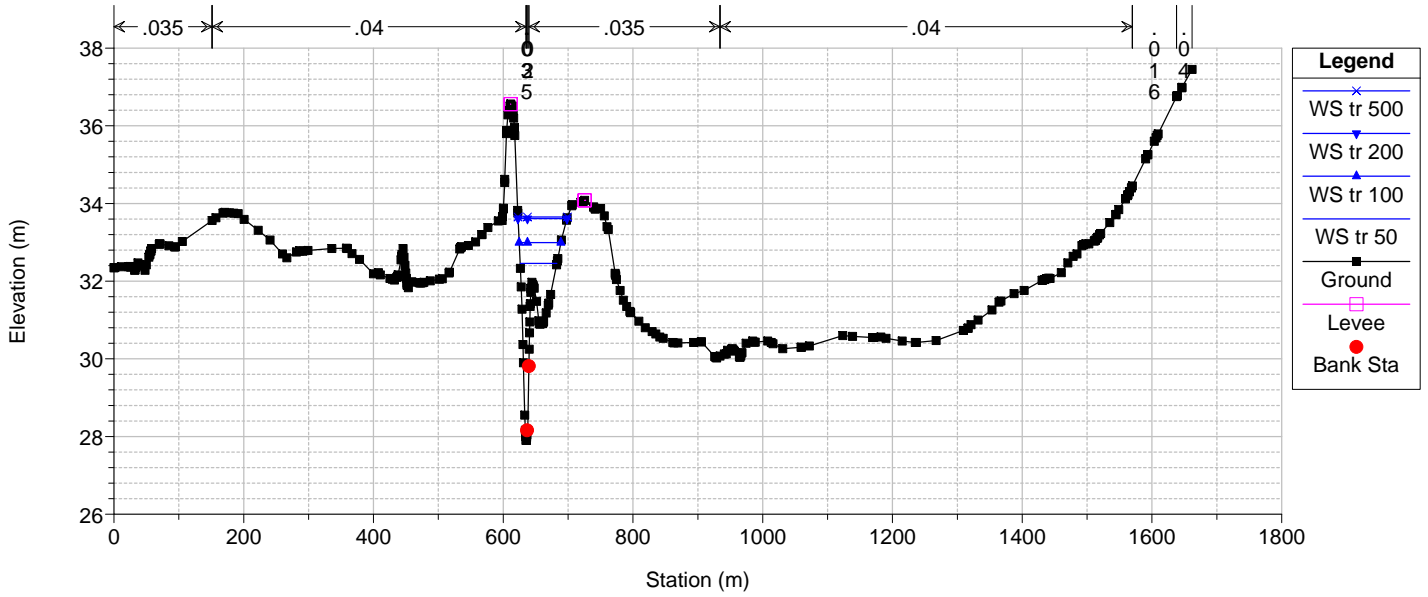
River = Canale urune Reach = Asta 1 RS = 7887.653 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

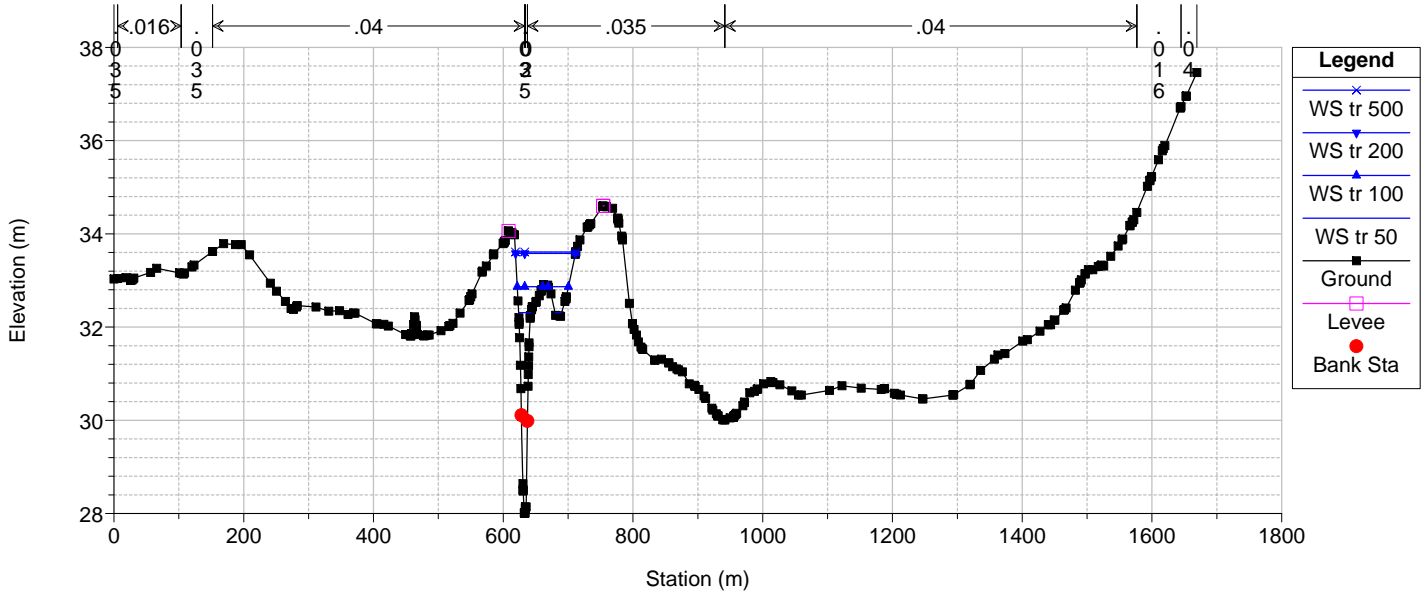
River = Canale urune Reach = Asta 1 RS = 7857.653 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

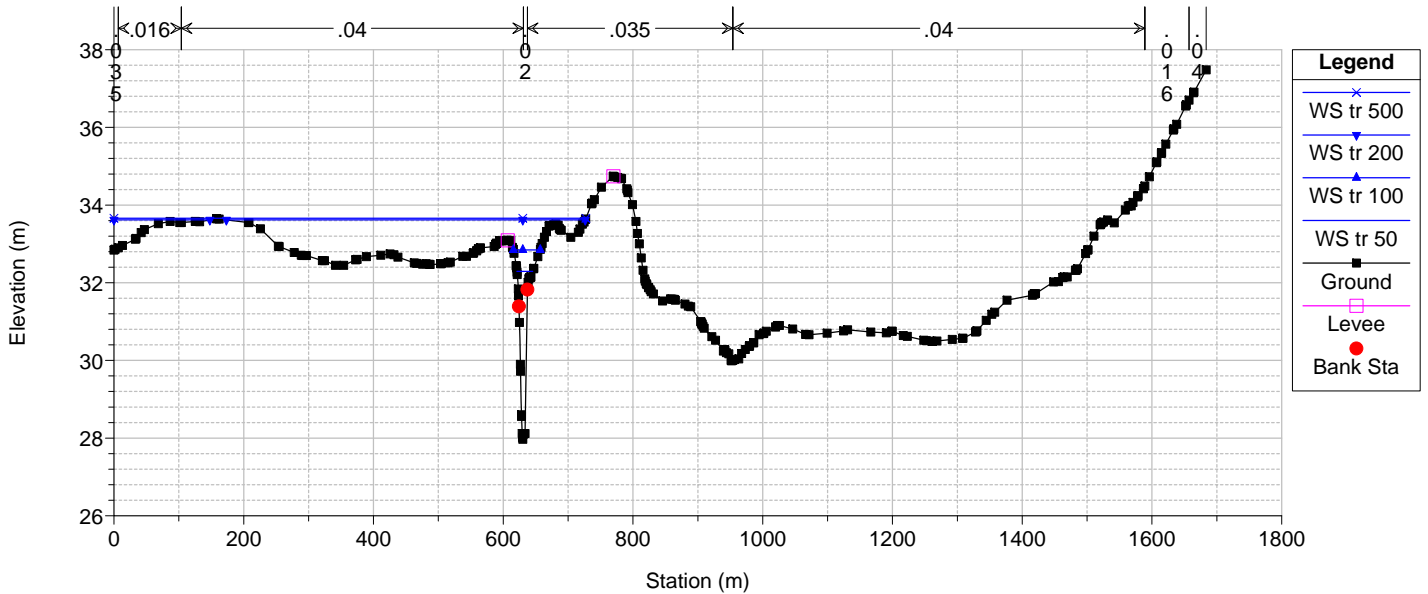
River = Canale urune Reach = Asta 1 RS = 7827.654 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

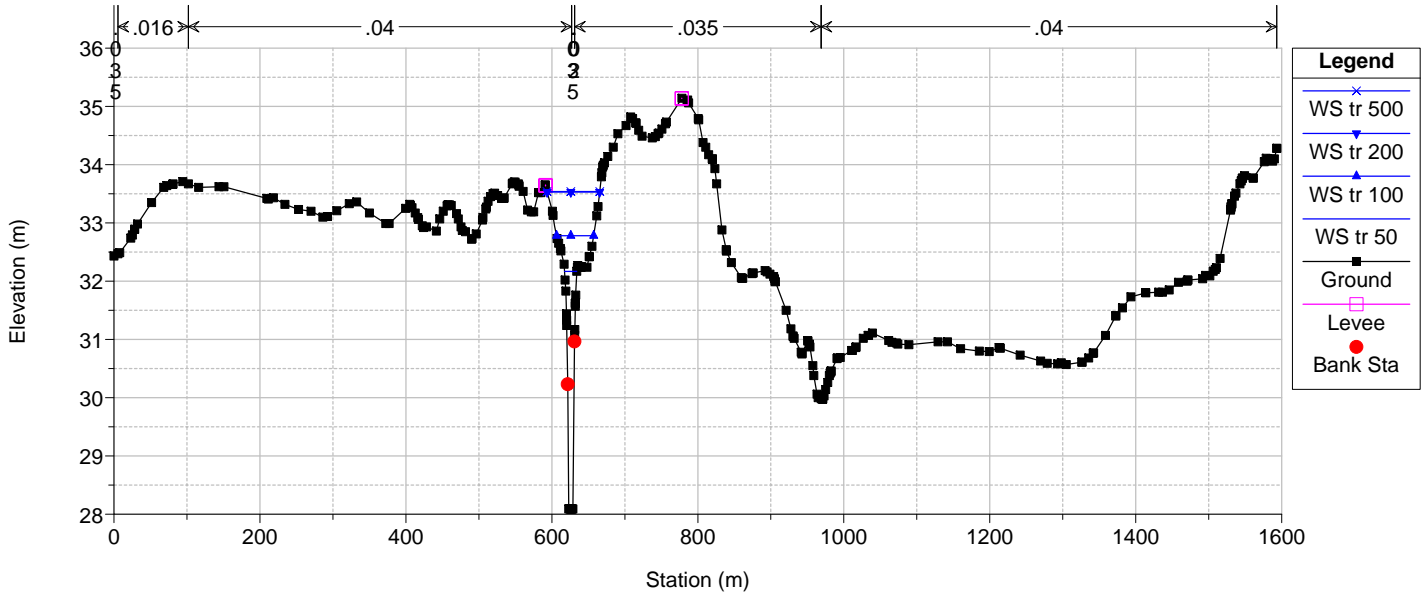
River = Canale urune Reach = Asta 1 RS = 7790.695 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

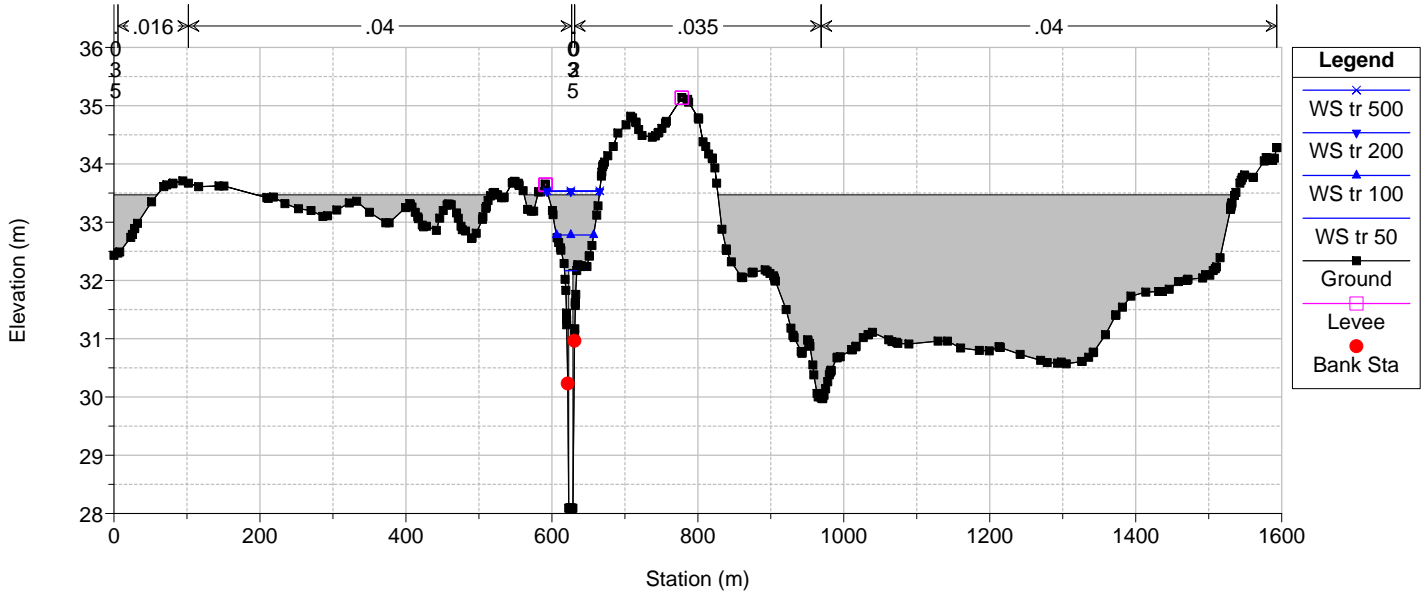
River = Canale urune Reach = Asta 1 RS = 7745.885 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

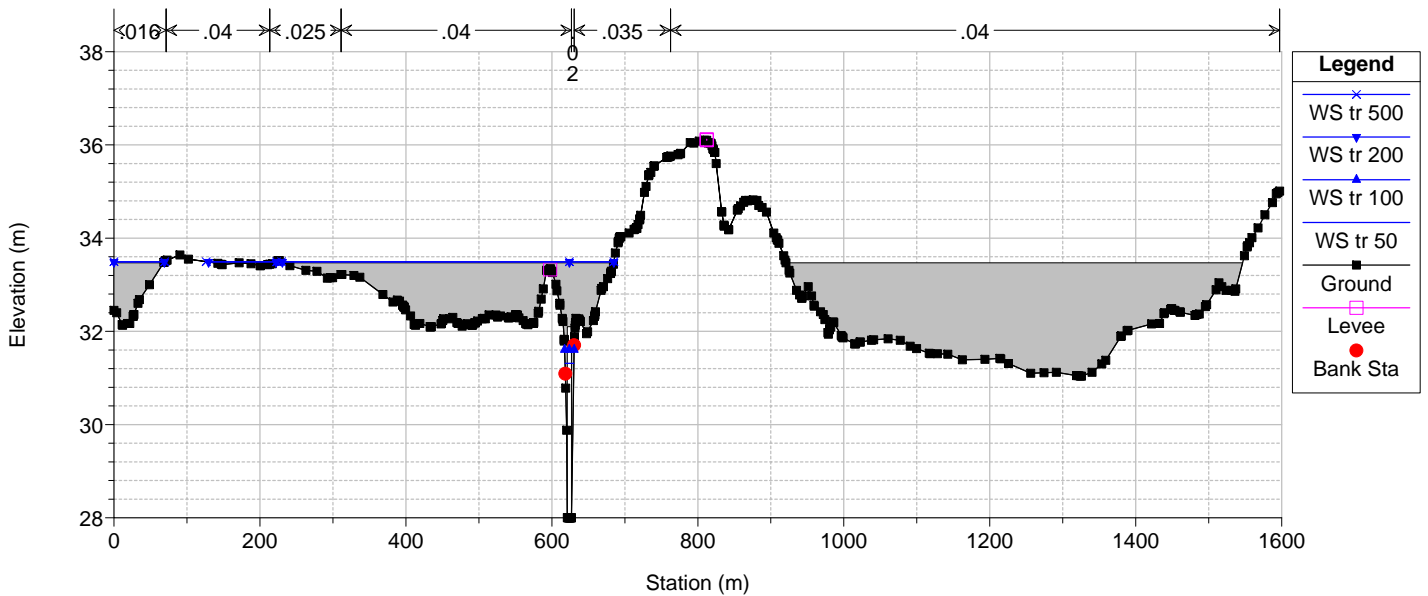
River = Canale urune Reach = Asta 1 RS = 7736.391 Culv COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

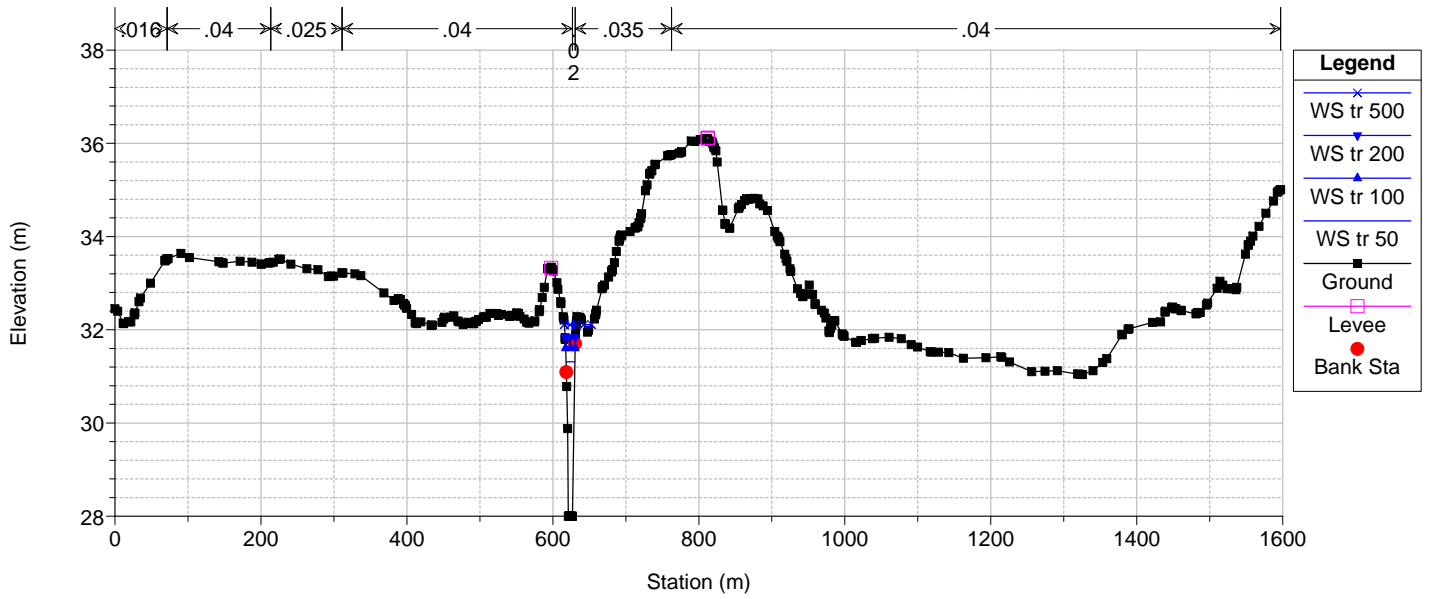
River = Canale urune Reach = Asta 1 RS = 7736.391 Culv COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

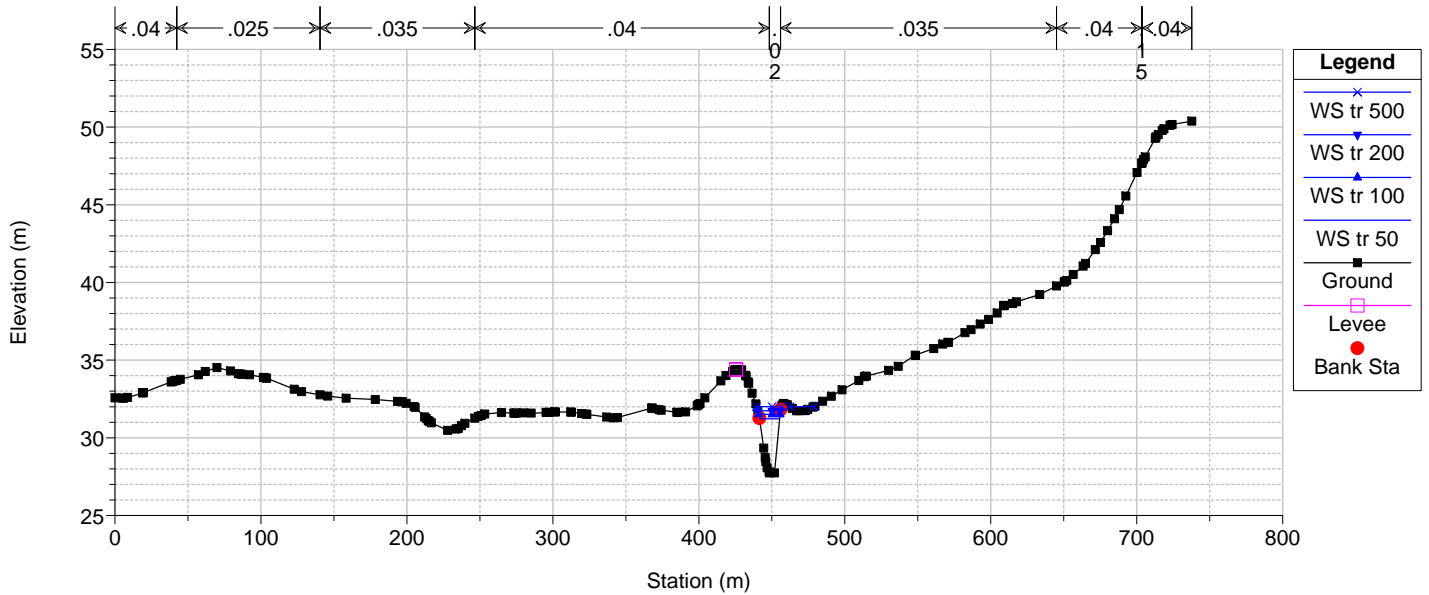
River = Canale urune Reach = Asta 1 RS = 7726.396 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

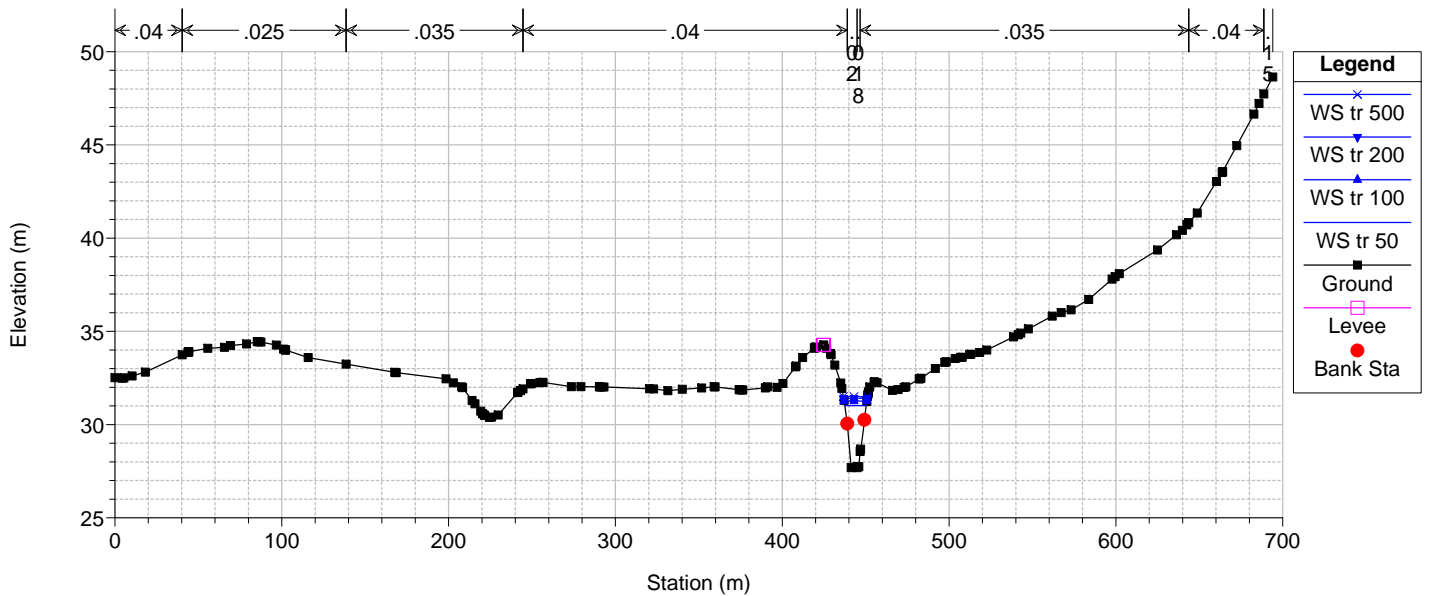
River = Canale urune Reach = Asta 1 RS = 7677.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

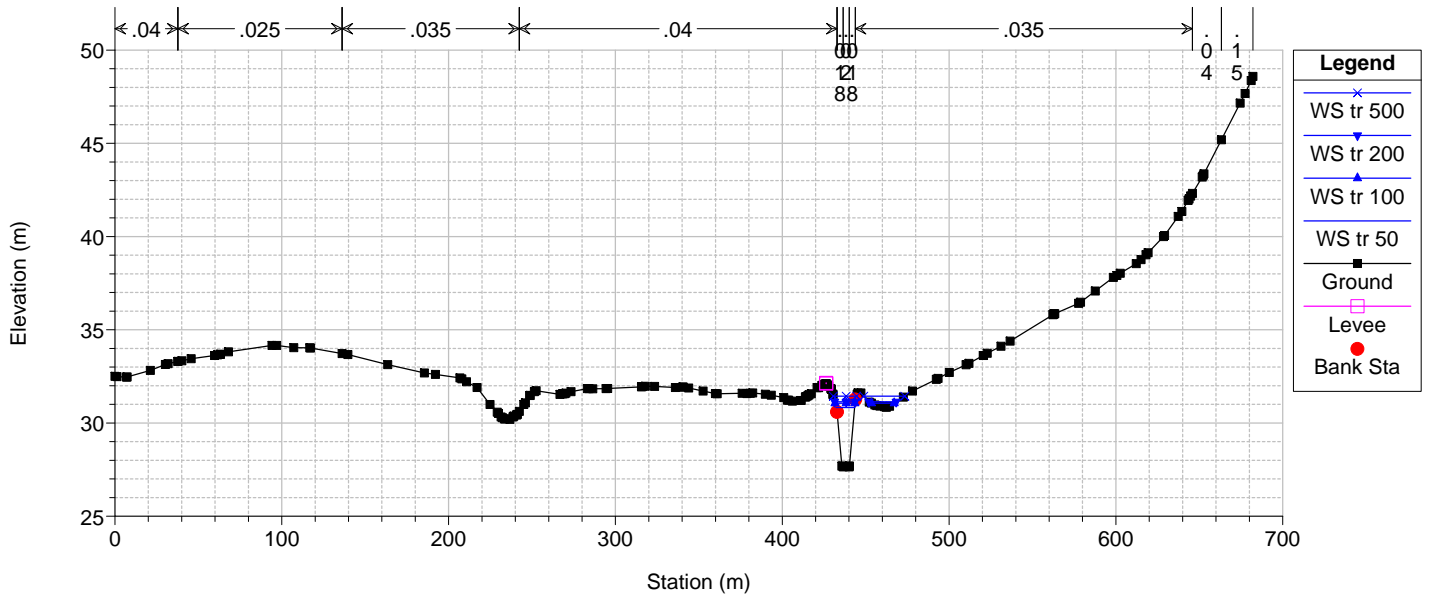
River = Canale urune Reach = Asta 1 RS = 7647.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

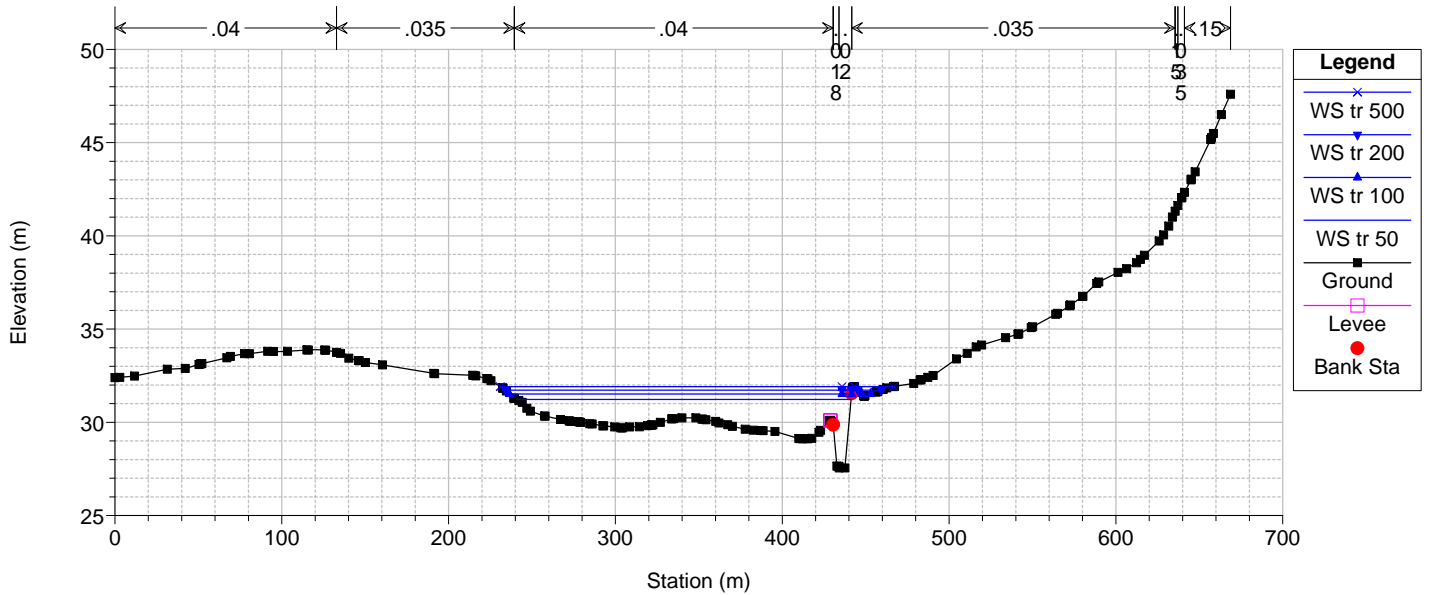
River = Canale urune Reach = Asta 1 RS = 7617.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

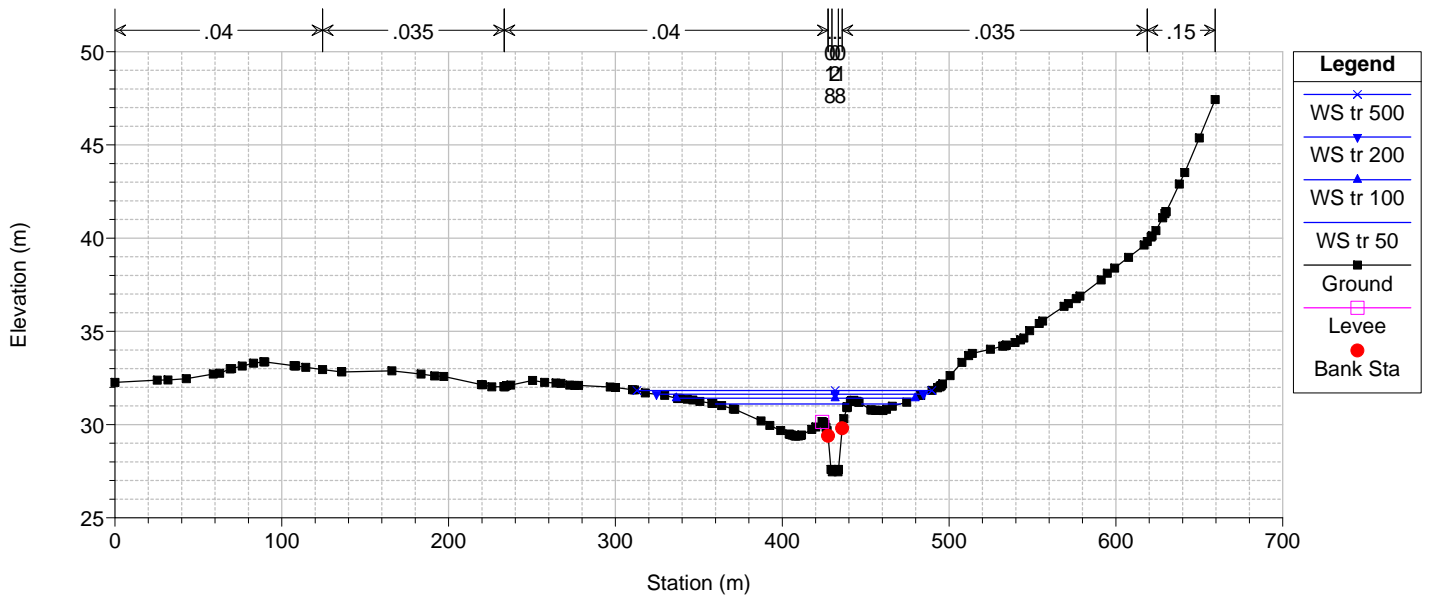
River = Canale urune Reach = Asta 1 RS = 7587.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

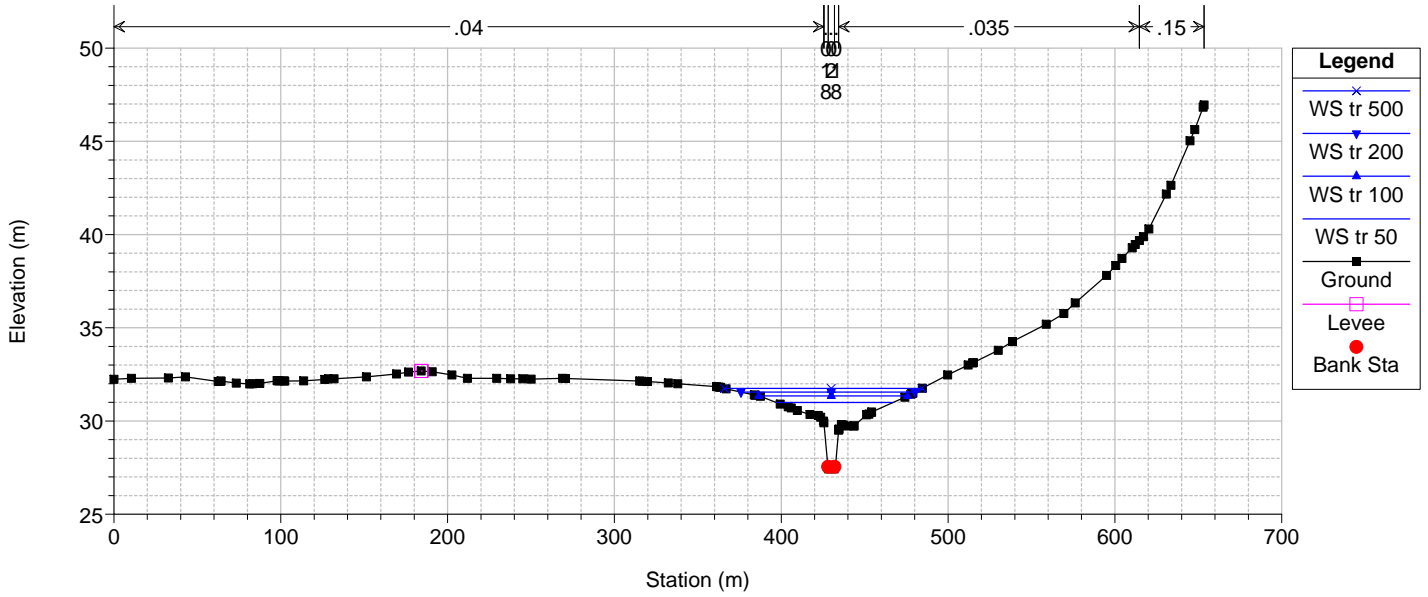
River = Canale urune Reach = Asta 1 RS = 7557.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

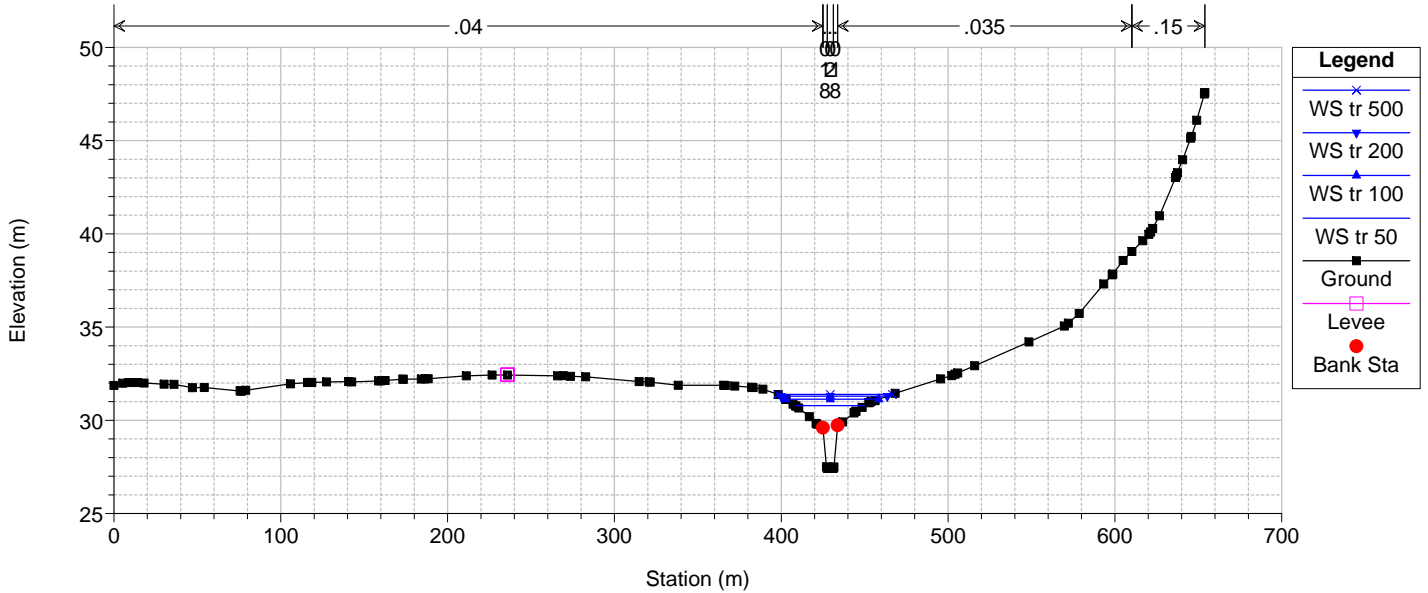
River = Canale urune Reach = Asta 1 RS = 7527.653 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

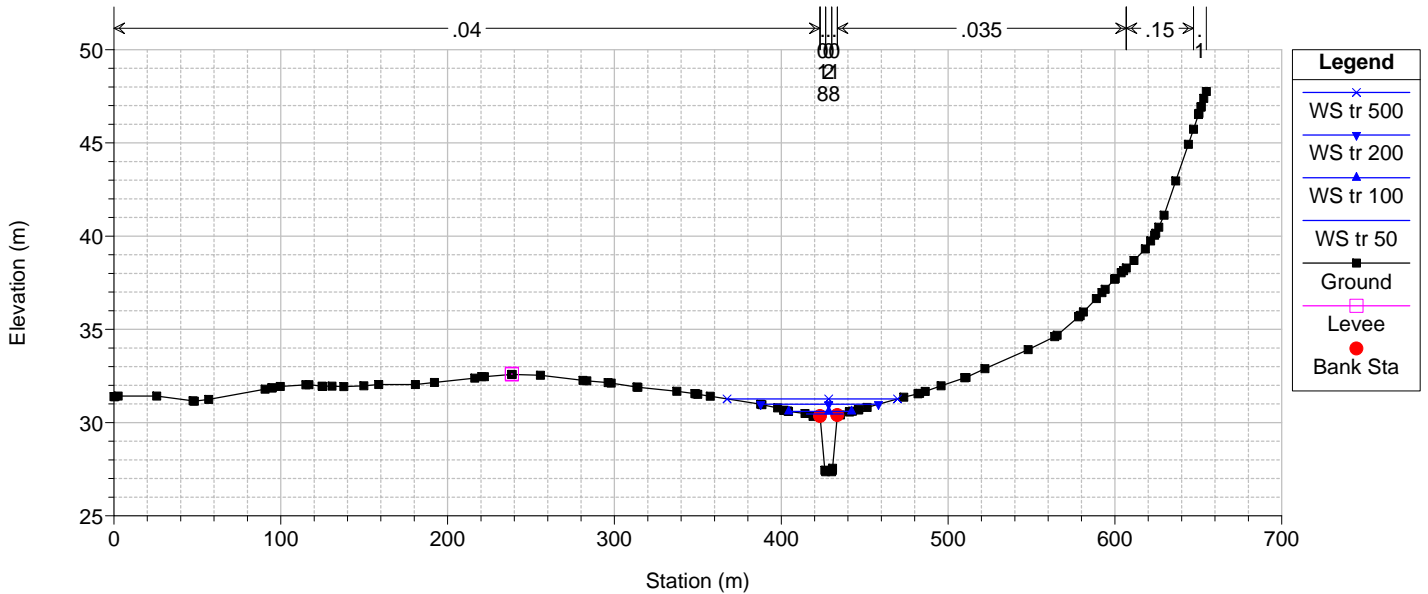
River = Canale urune Reach = Asta 1 RS = 7497.653 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

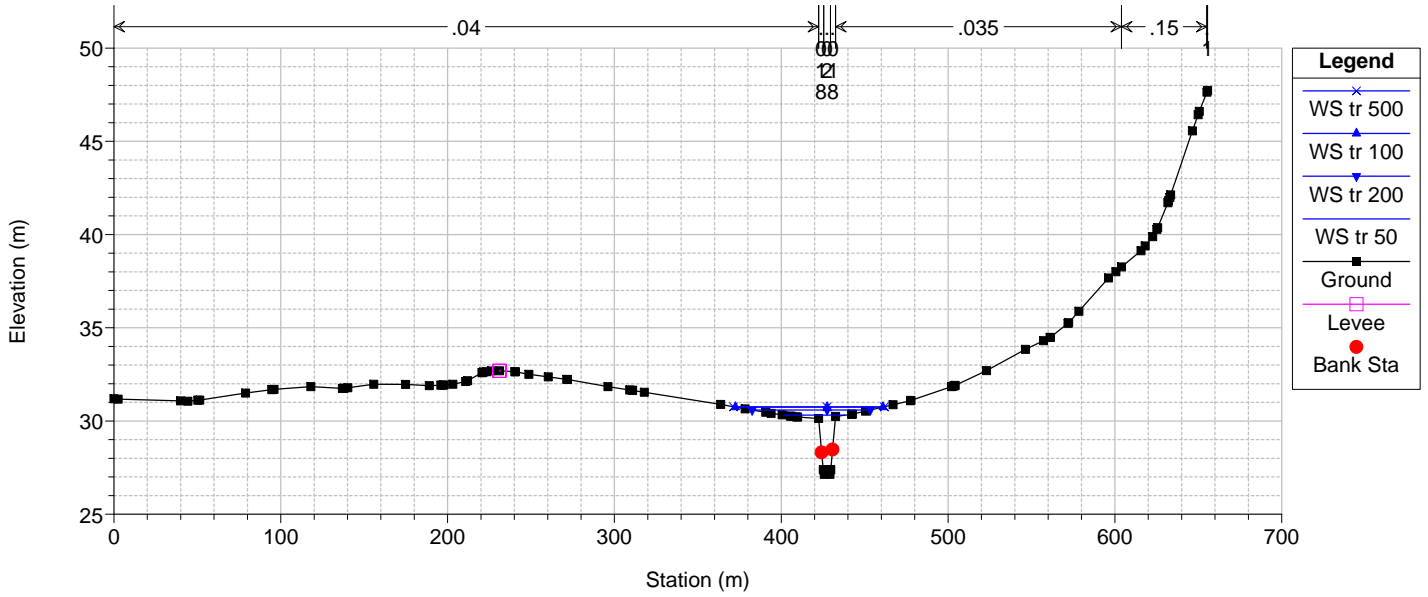
River = Canale urune Reach = Asta 1 RS = 7467.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

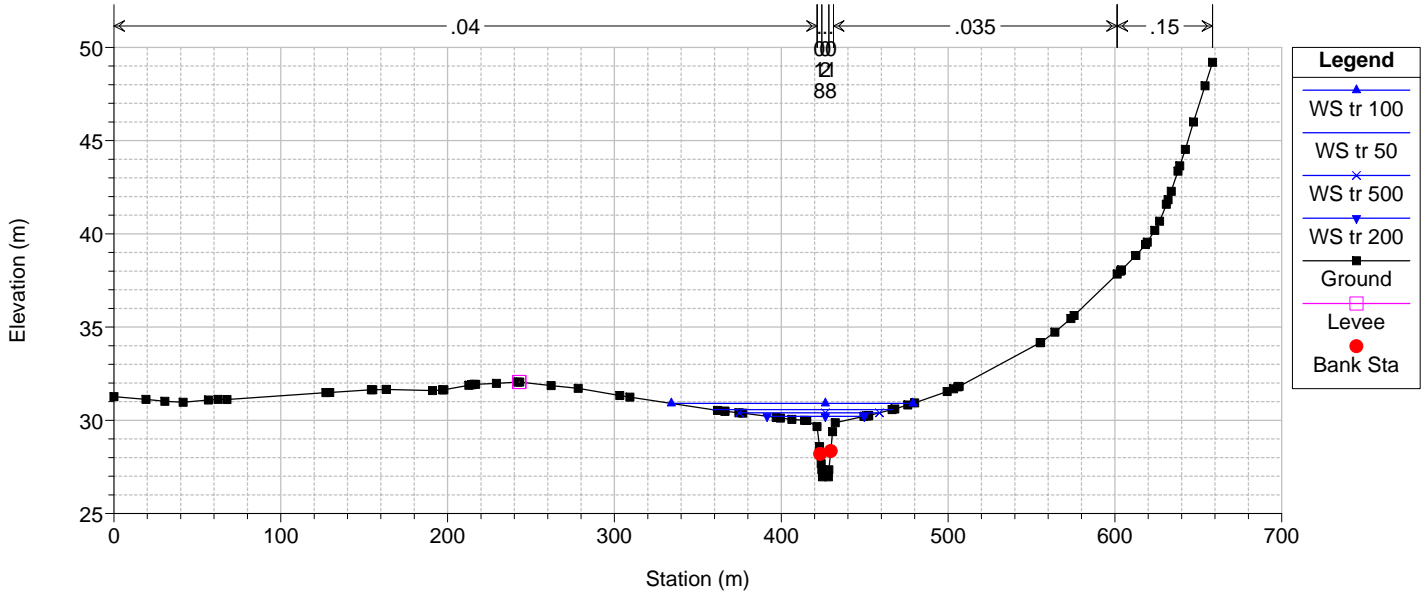
River = Canale urune Reach = Asta 1 RS = 7437.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

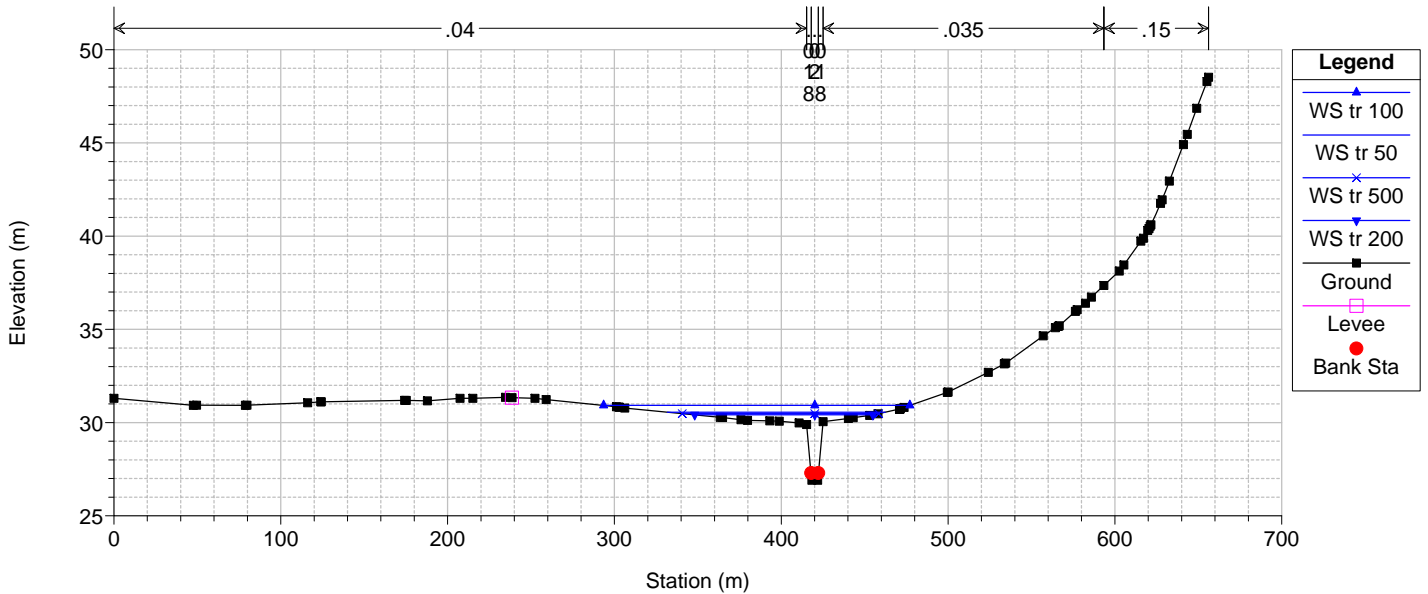
River = Canale urune Reach = Asta 1 RS = 7407.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

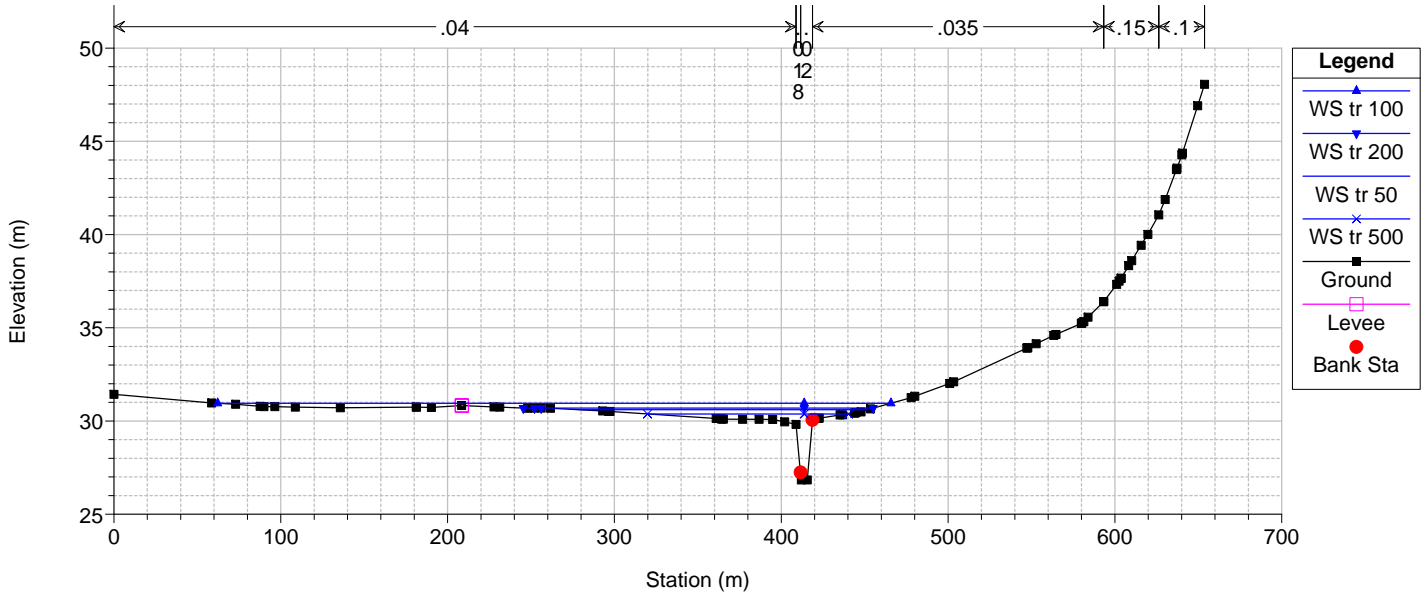
River = Canale urune Reach = Asta 1 RS = 7377.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

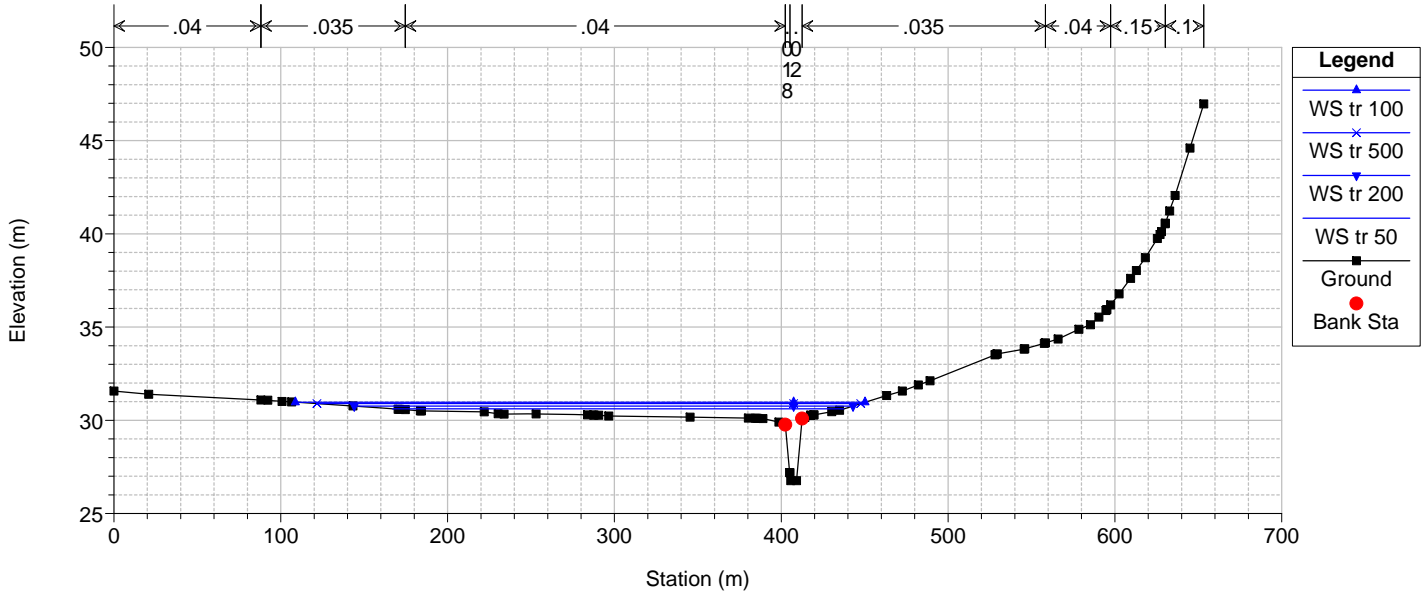
River = Canale urune Reach = Asta 1 RS = 7347.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

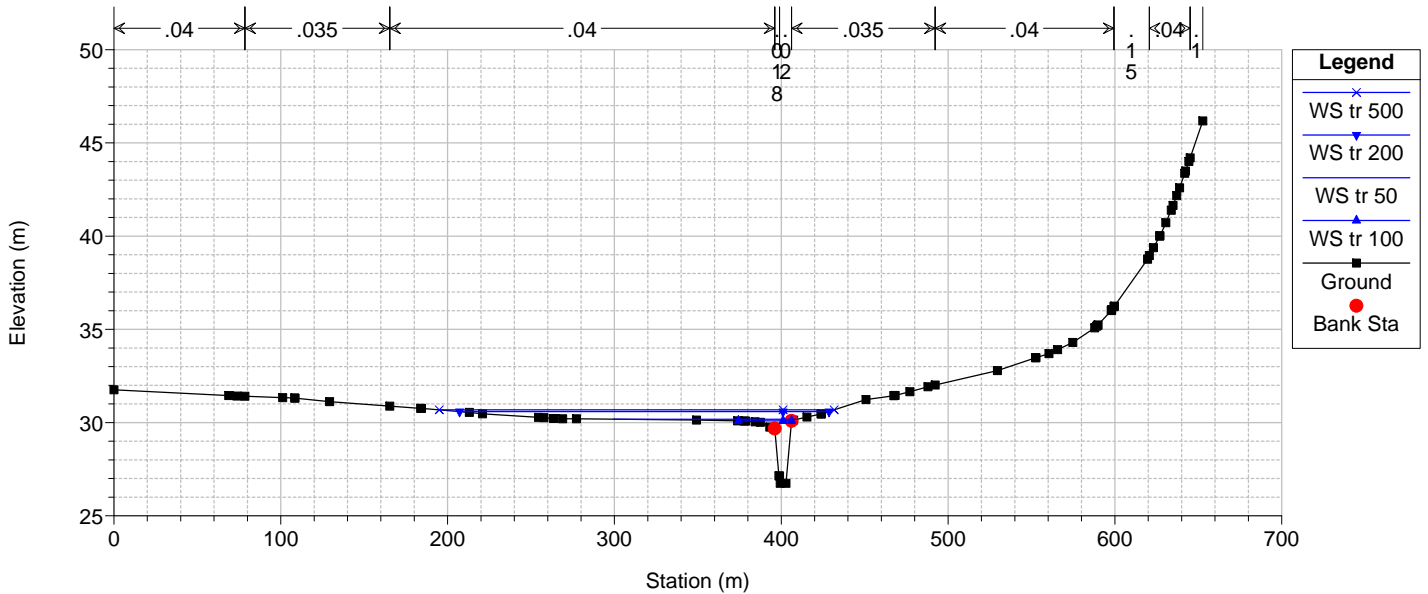
River = Canale urune Reach = Asta 1 RS = 7317.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

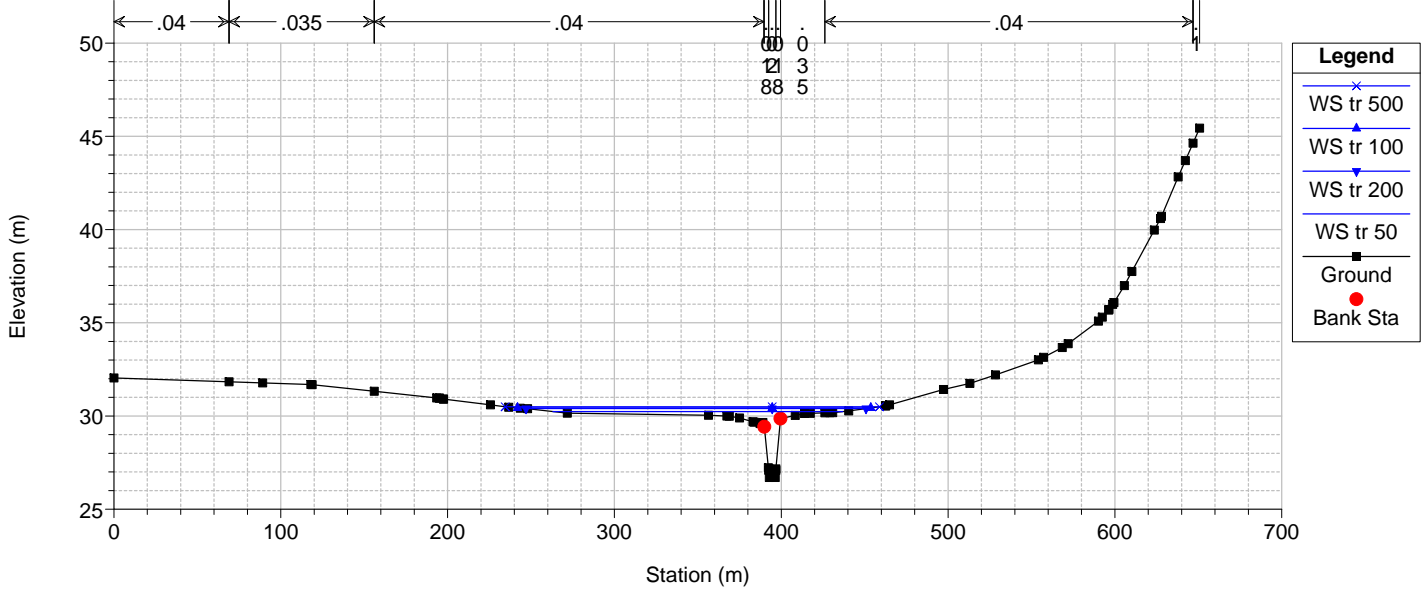
River = Canale urune Reach = Asta 1 RS = 7287.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

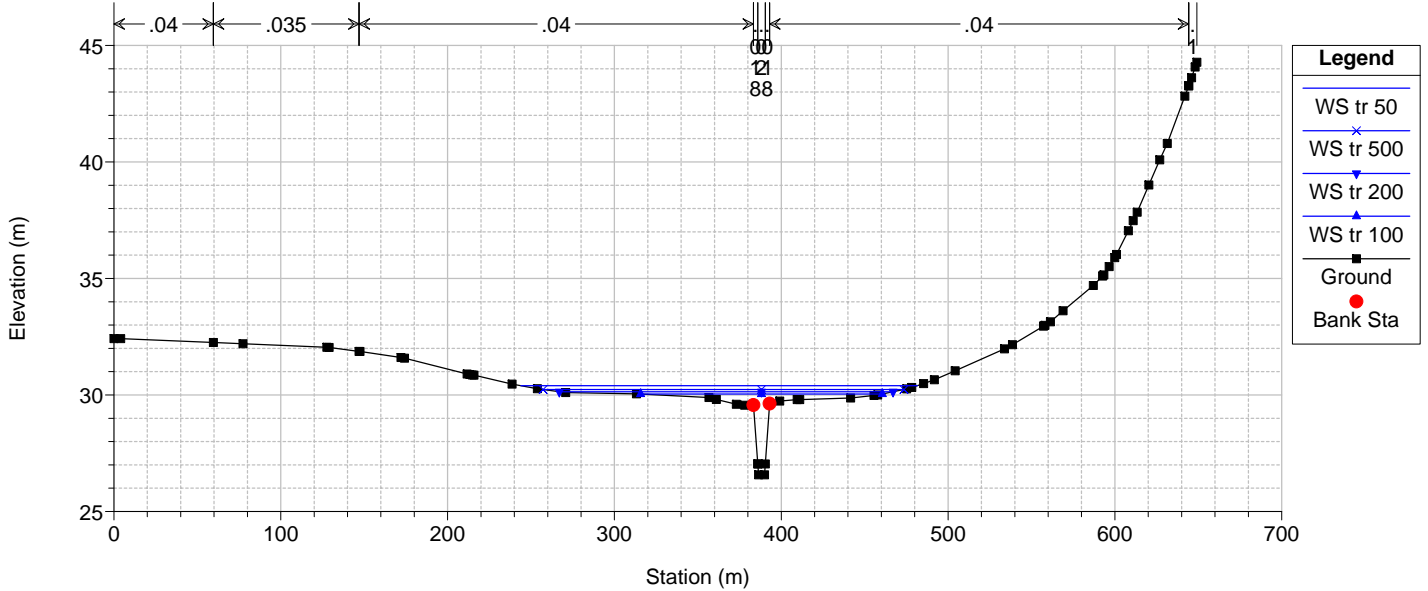
River = Canale urune Reach = Asta 1 RS = 7257.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

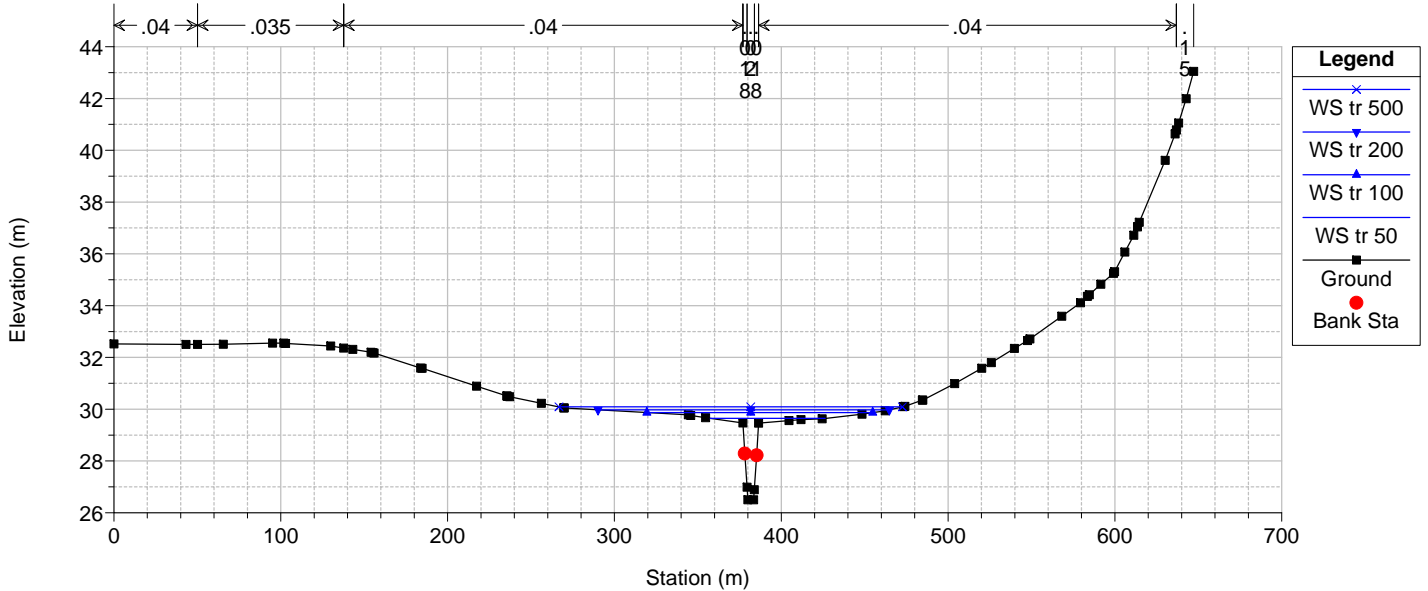
River = Canale urune Reach = Asta 1 RS = 7227.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

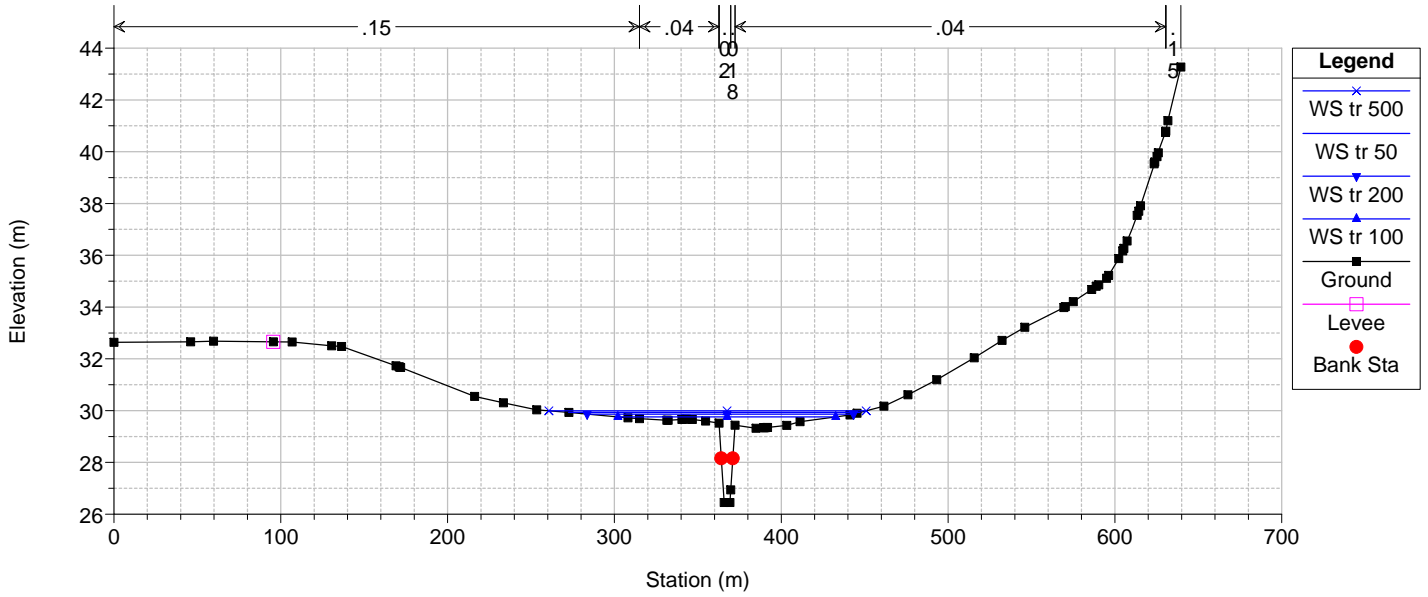
River = Canale urune Reach = Asta 1 RS = 7197.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

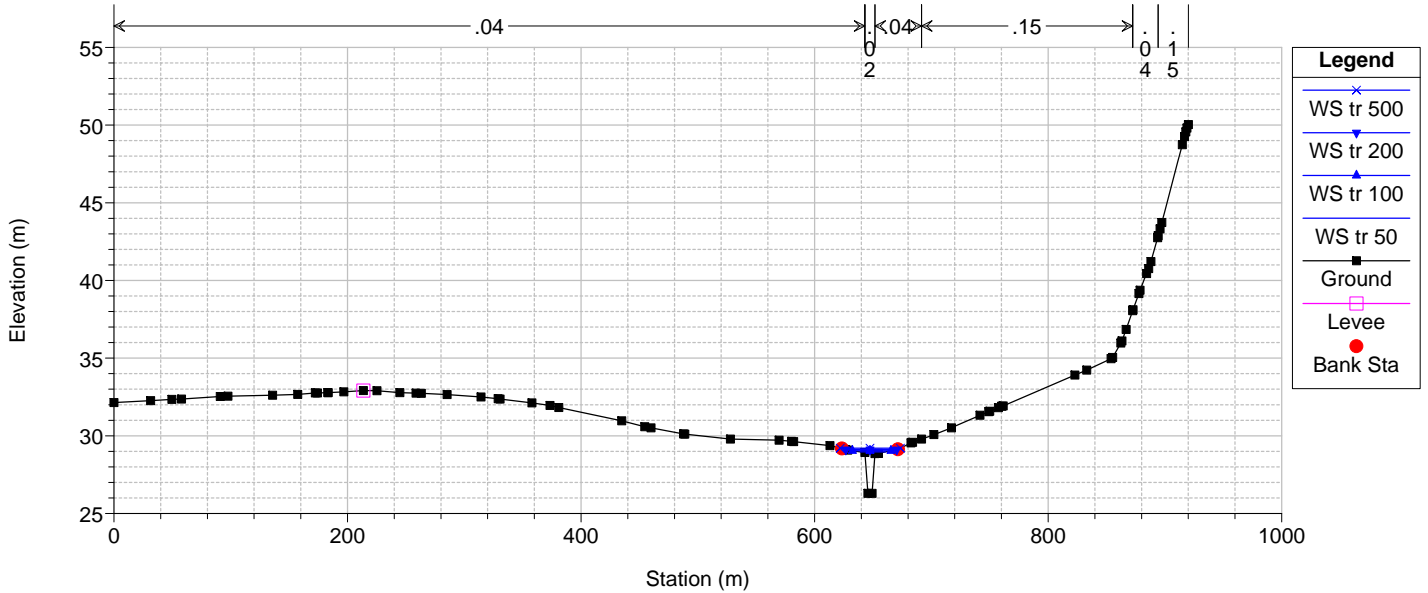
River = Canale urune Reach = Asta 1 RS = 7167.653 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

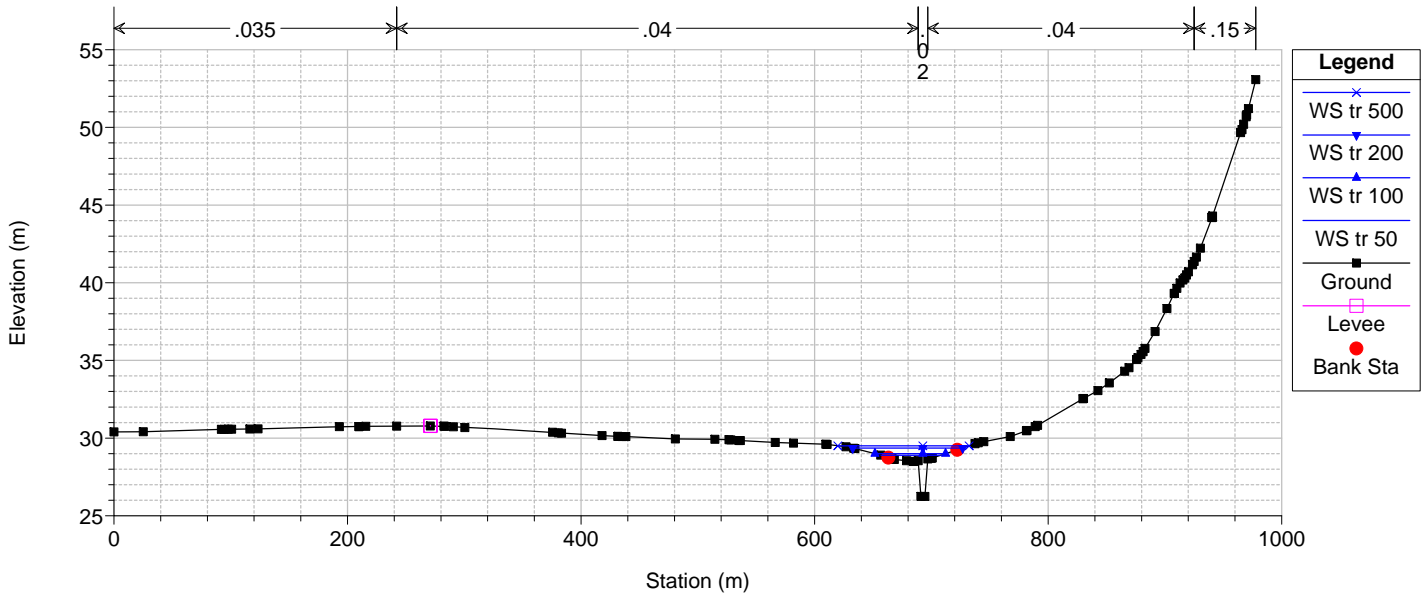
River = Canale urune Reach = Asta 1 RS = 7106.07 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

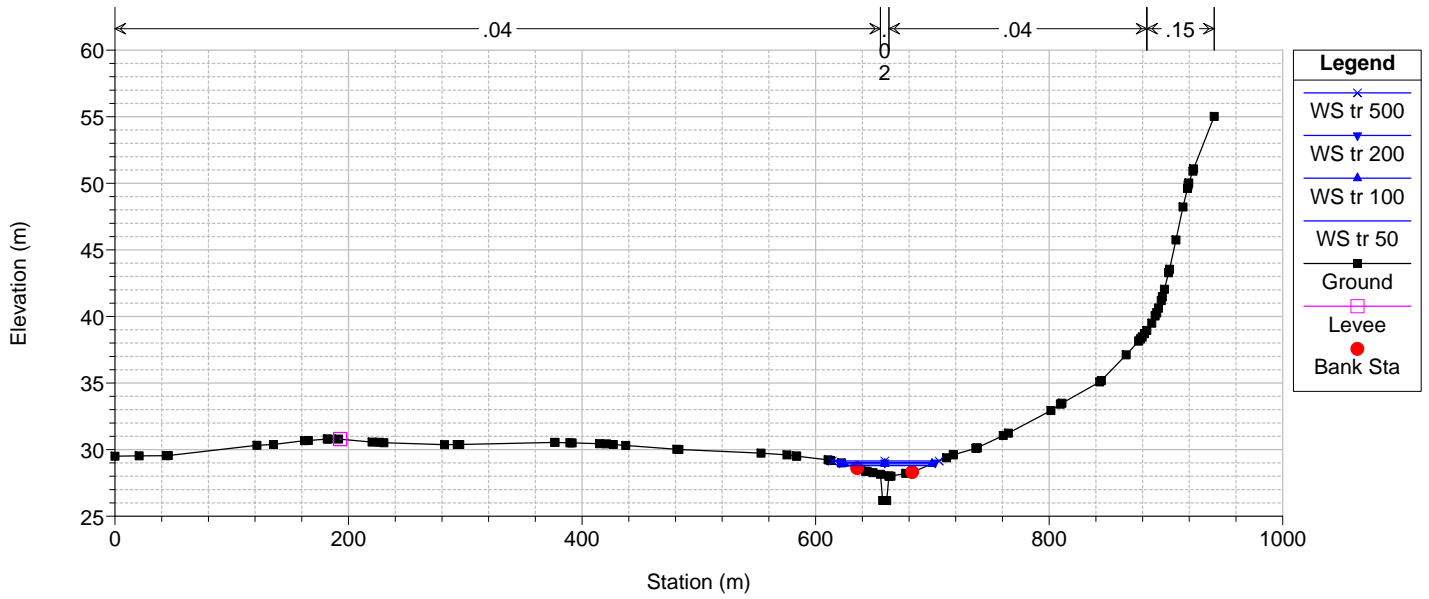
River = Canale urune Reach = Asta 1 RS = 7001.796 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

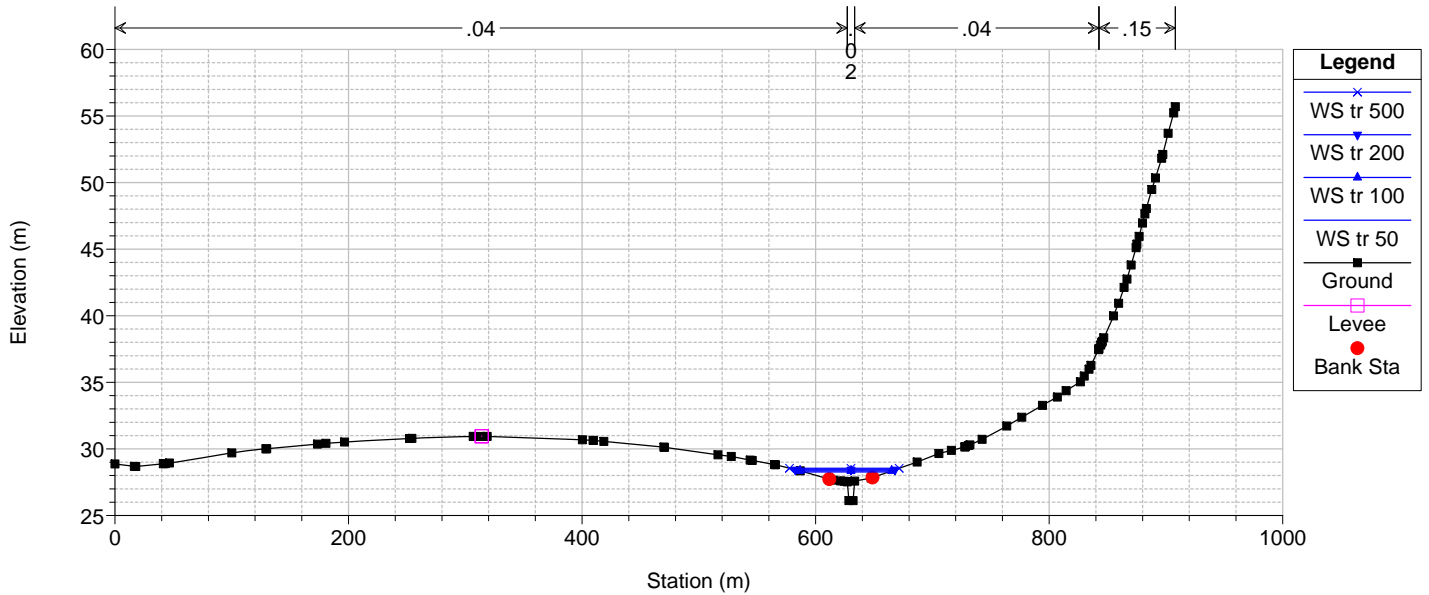
River = Canale urune Reach = Asta 1 RS = 6885.774 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

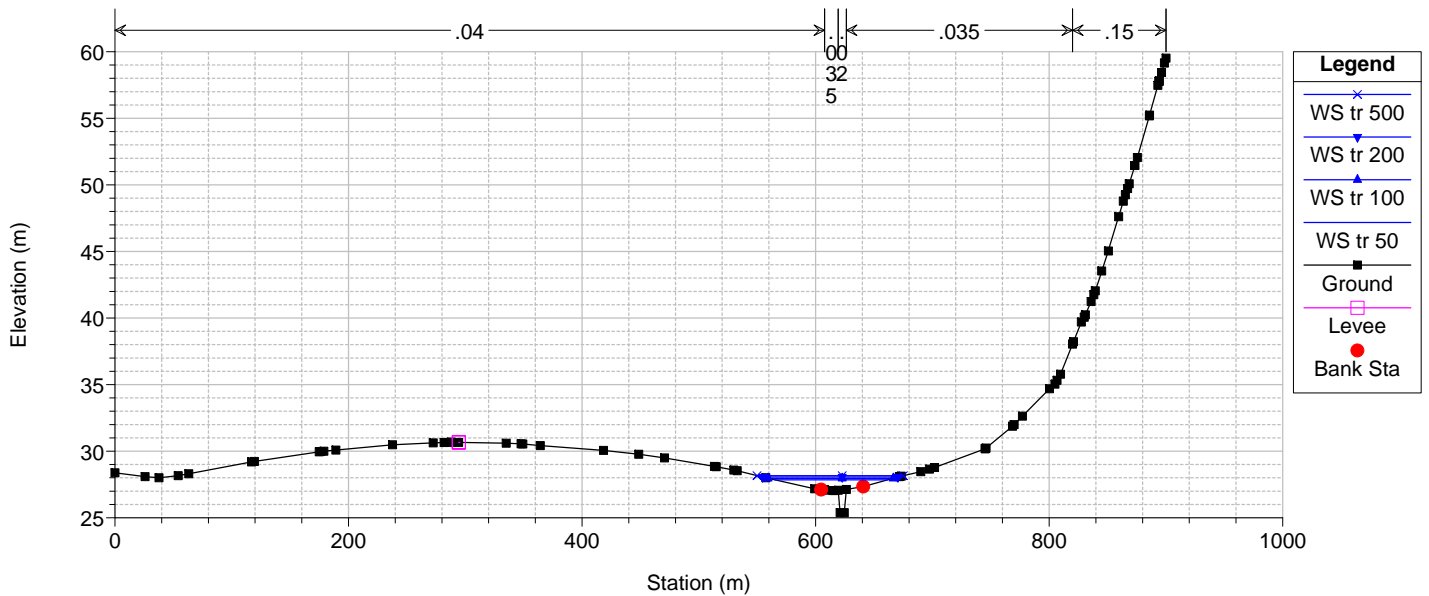
River = Canale urune Reach = Asta 1 RS = 6759.229 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

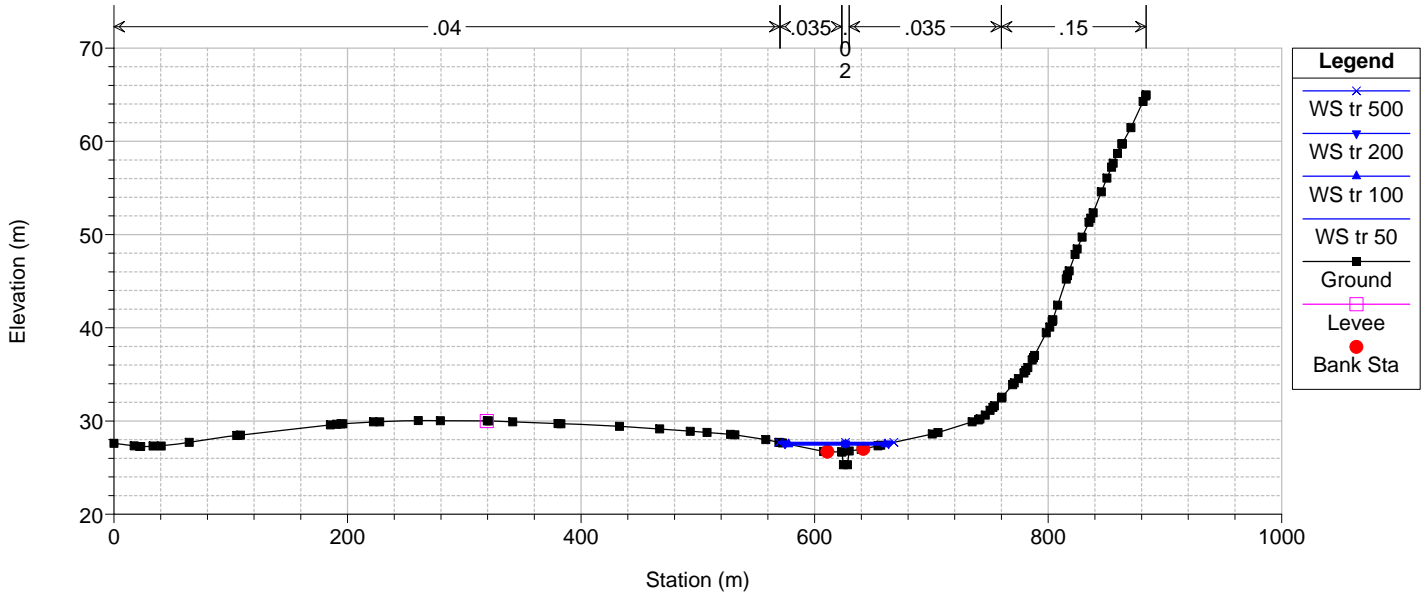
River = Canale urune Reach = Asta 1 RS = 6643.701 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

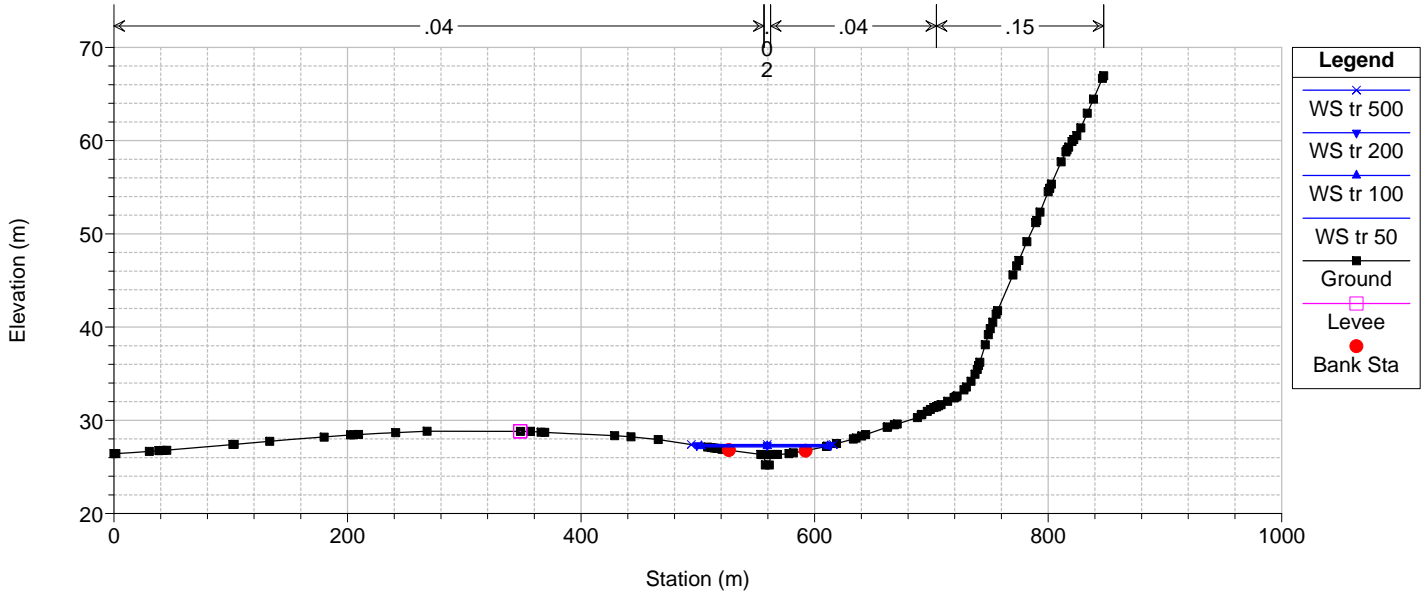
River = Canale urune Reach = Asta 1 RS = 6538.358 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

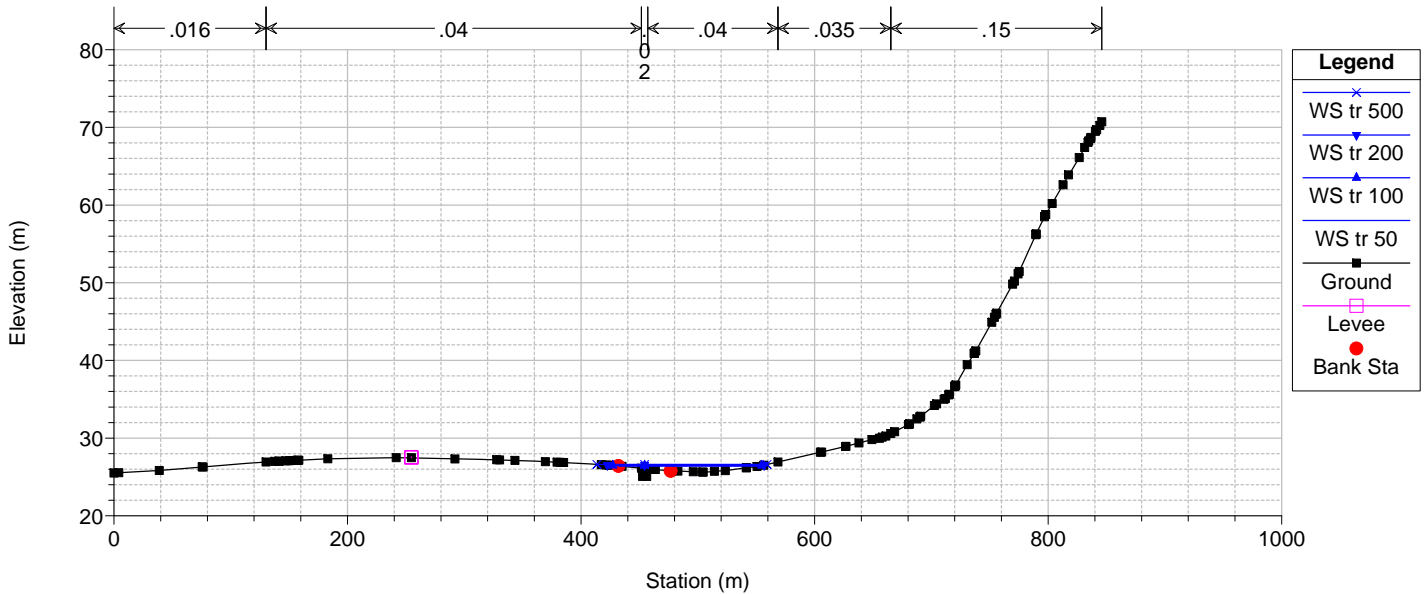
River = Canale urune Reach = Asta 1 RS = 6435.705 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

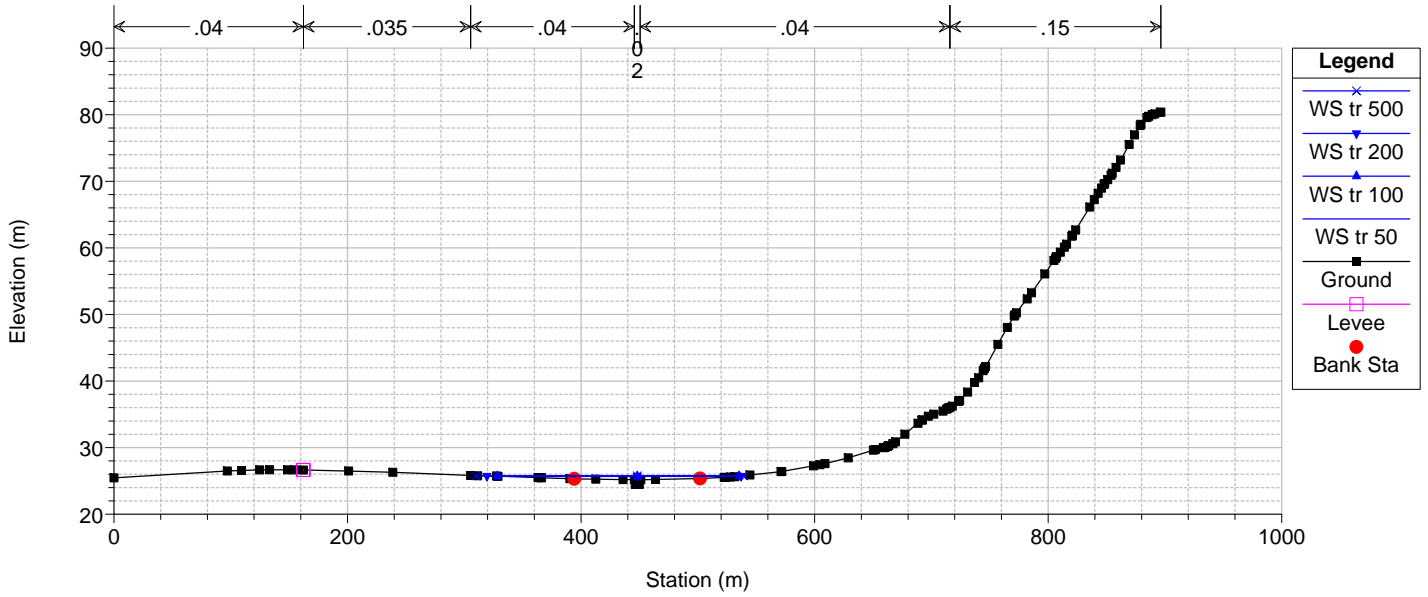
River = Canale urune Reach = Asta 1 RS = 6243.105 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

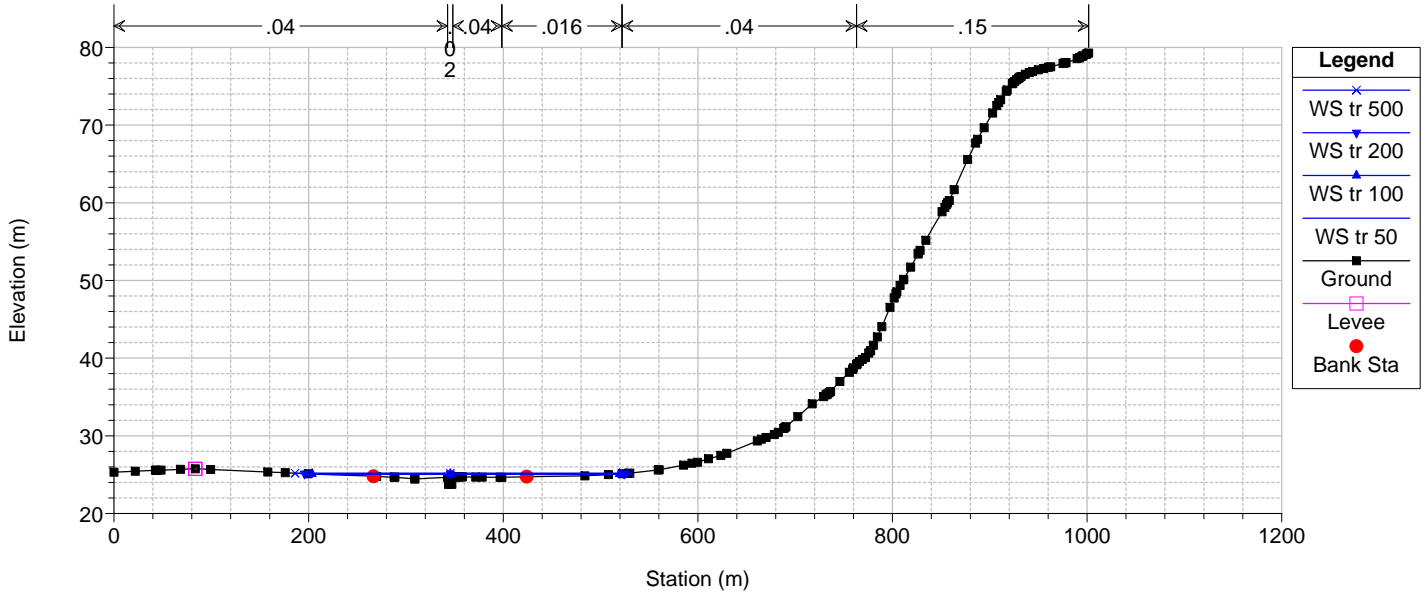
River = Canale urune Reach = Asta 1 RS = 6116.597 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

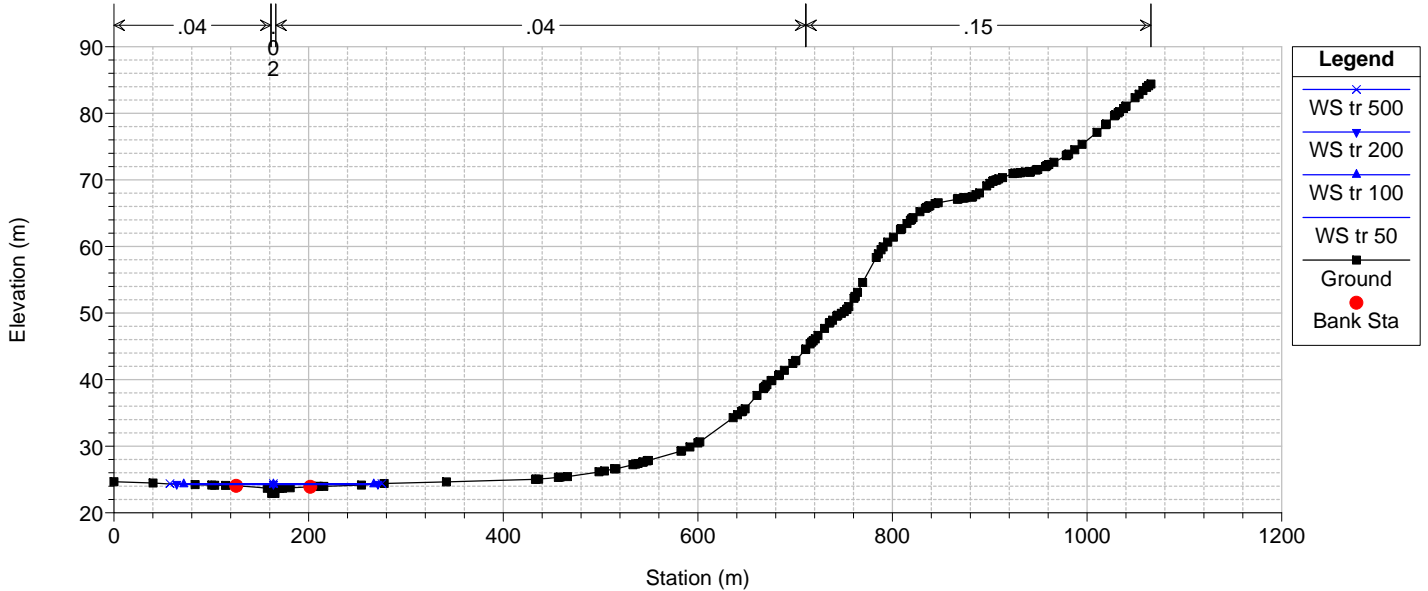
River = Canale urune Reach = Asta 1 RS = 5924.254 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

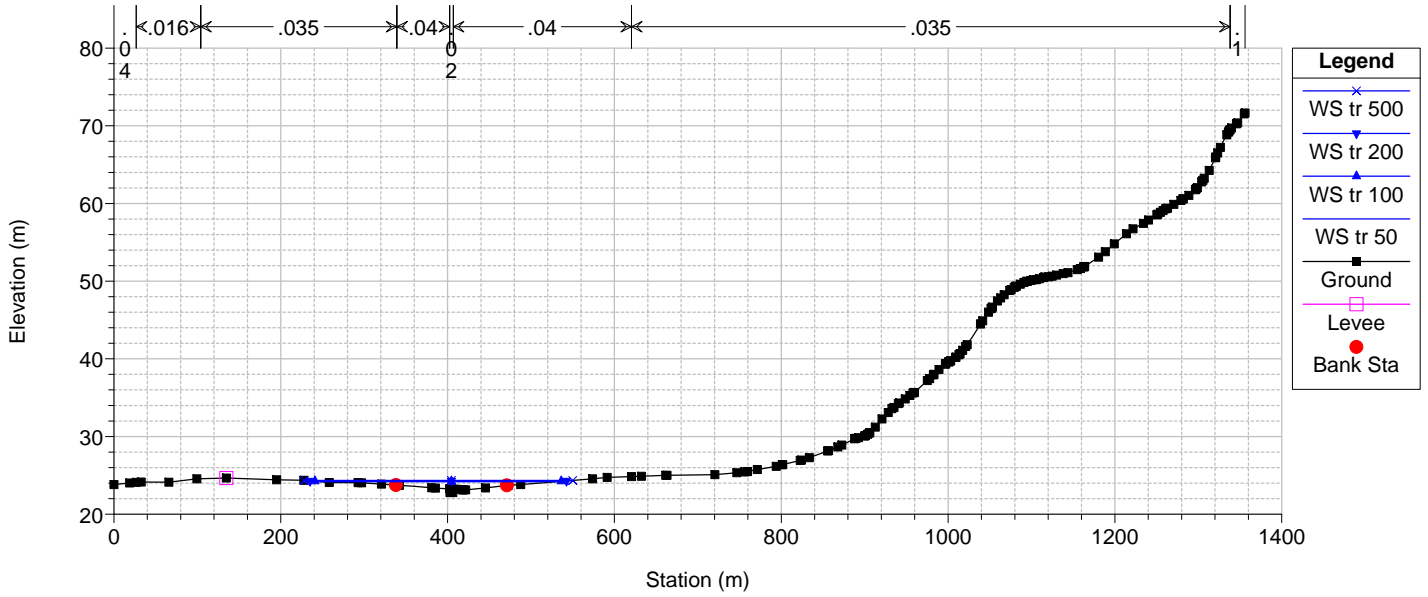
River = Canale urune Reach = Asta 1 RS = 5733.933 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

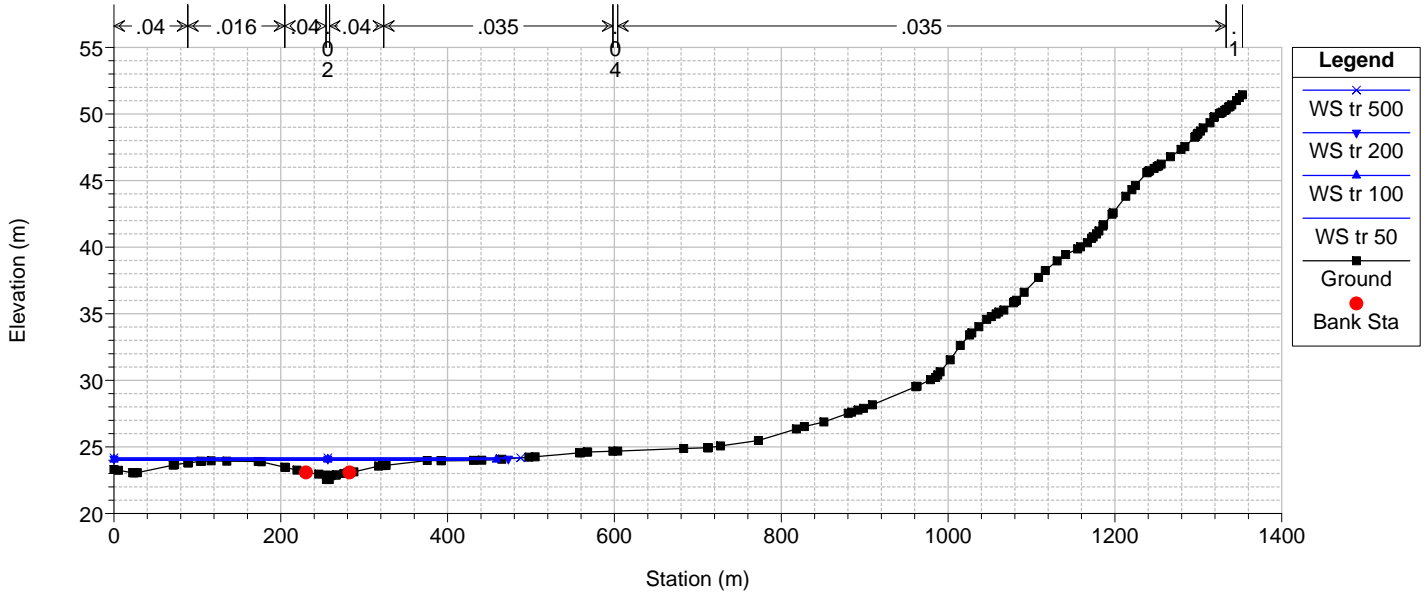
River = Canale urune Reach = Asta 2 RS = 5515.869 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

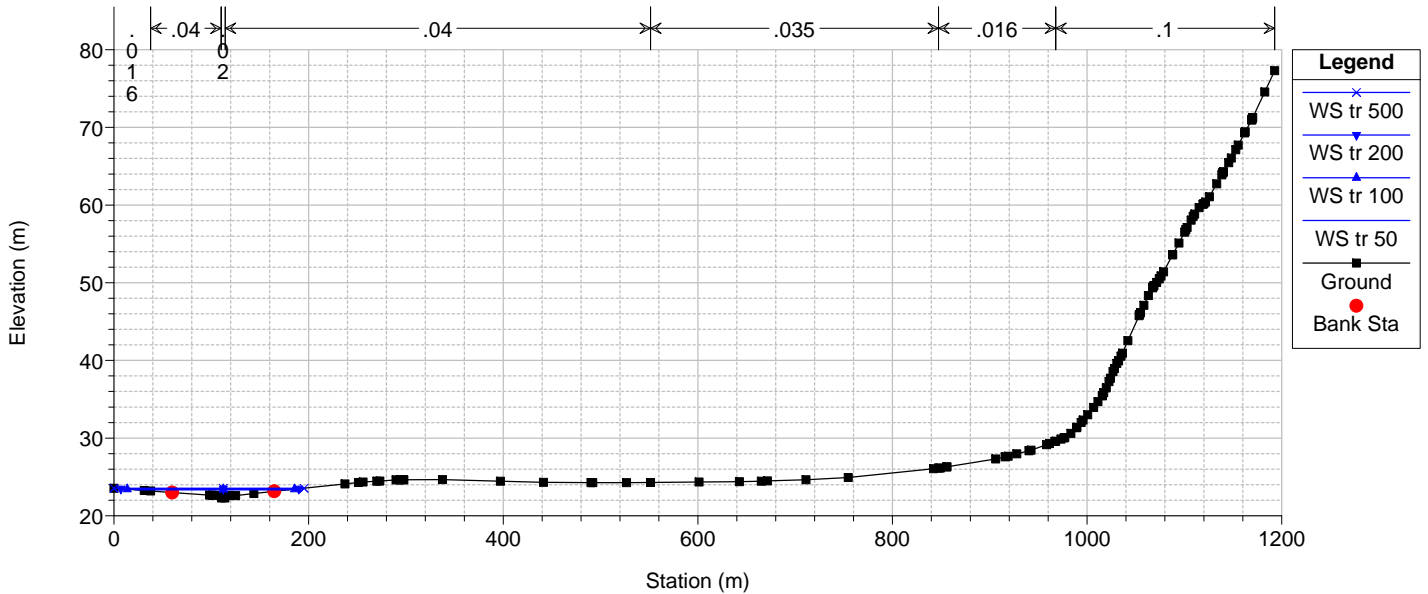
River = Canale urune Reach = Asta 2 RS = 5400.612 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

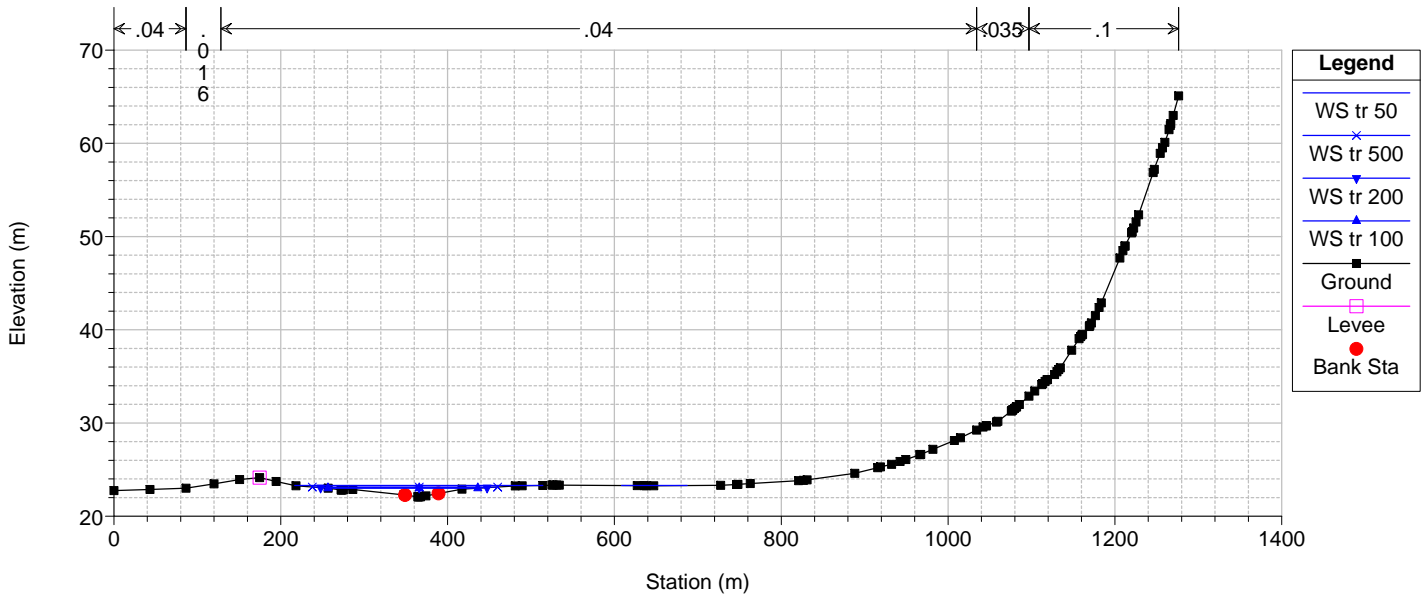
River = Canale urune Reach = Asta 2 RS = 5257.257 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

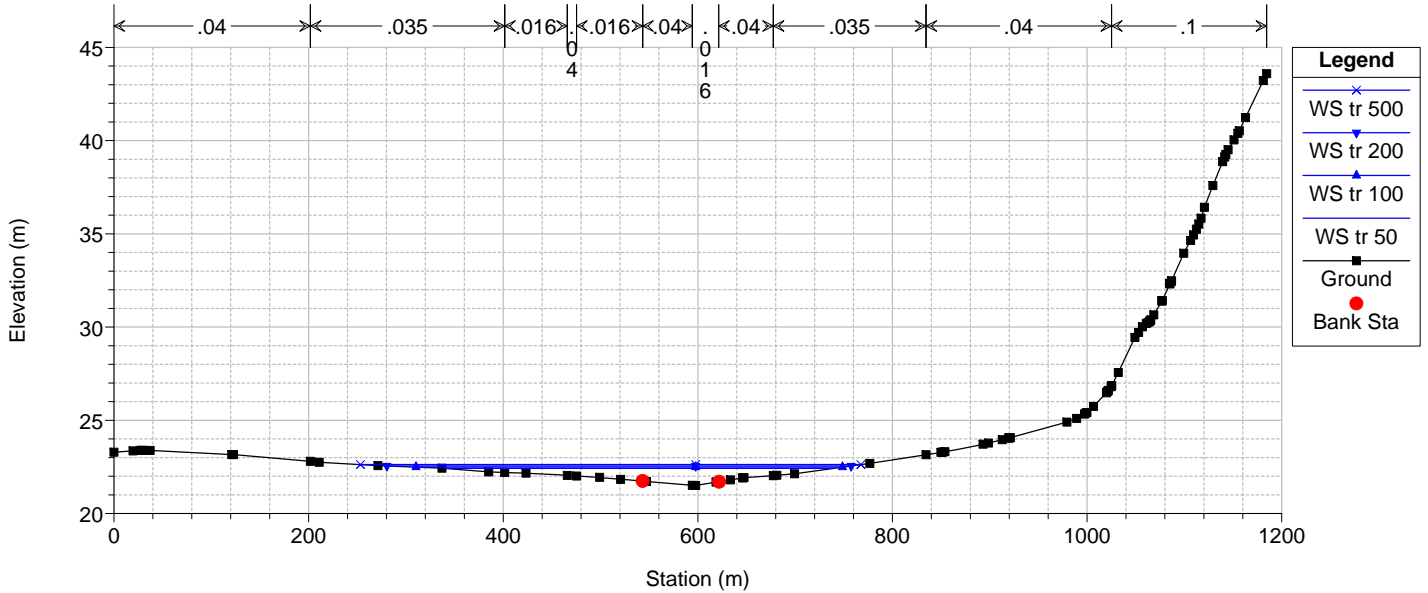
River = Canale urune Reach = Asta 3 RS = 5001.333 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

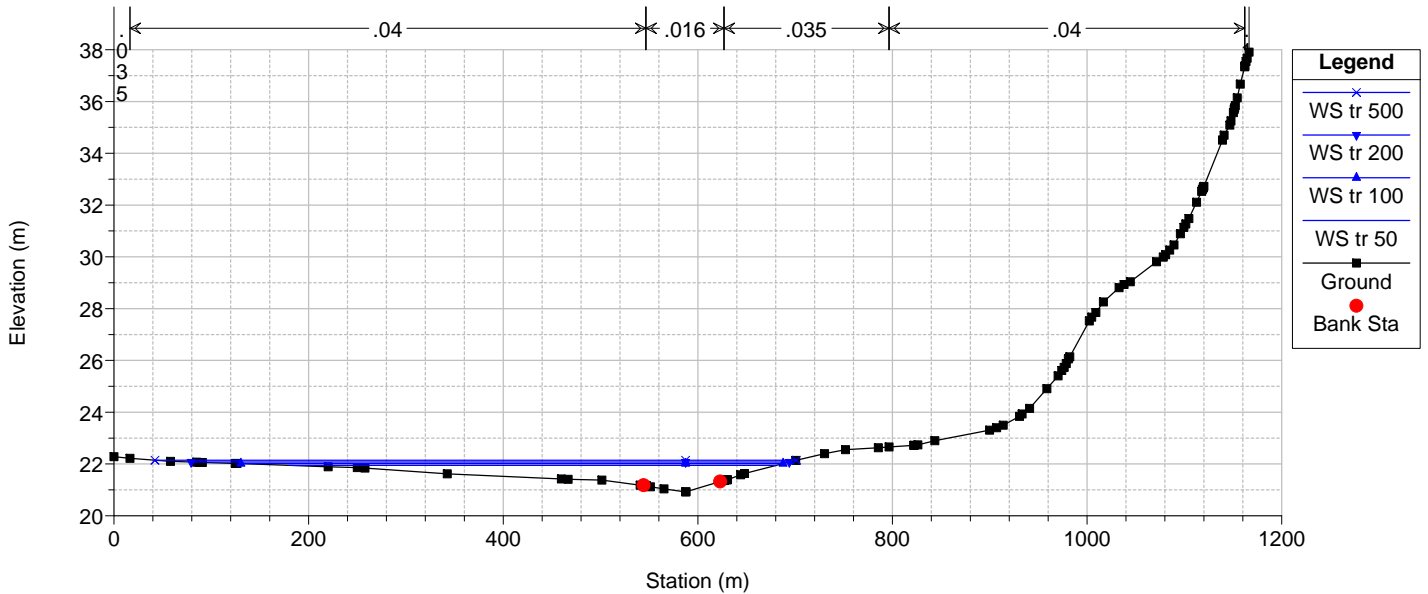
River = Canale urune Reach = Asta 3 RS = 4649.523 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

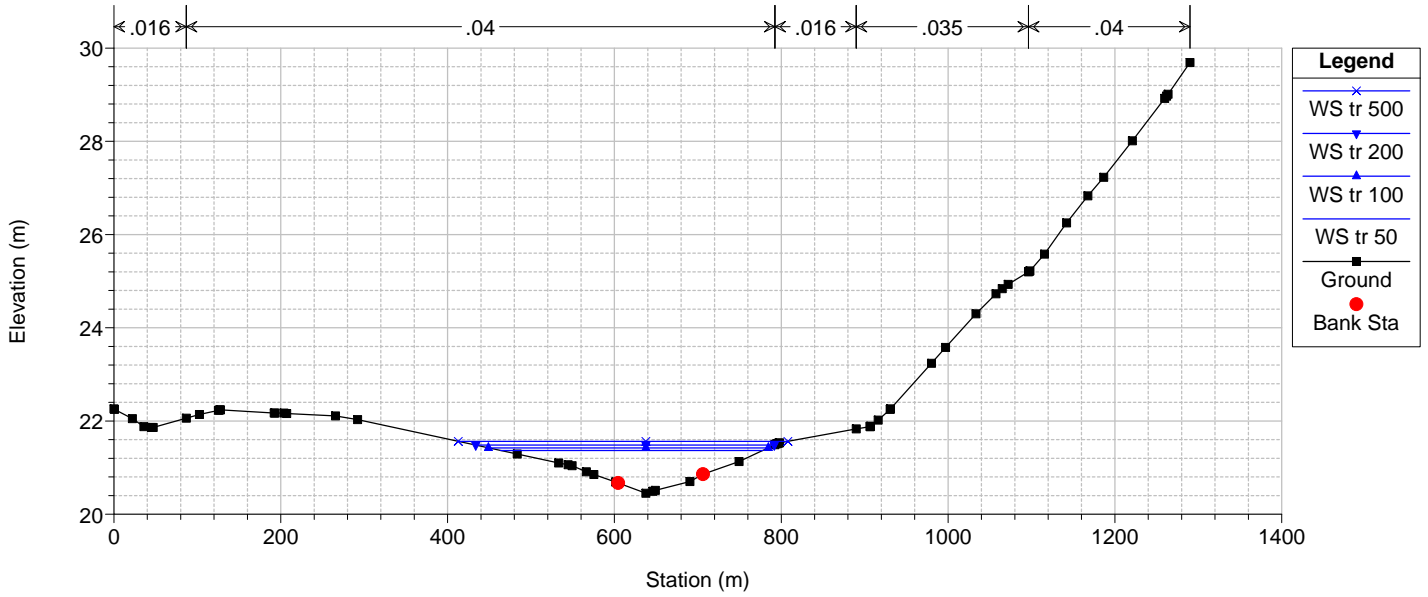
River = Canale urune Reach = Asta 3 RS = 4314.969 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

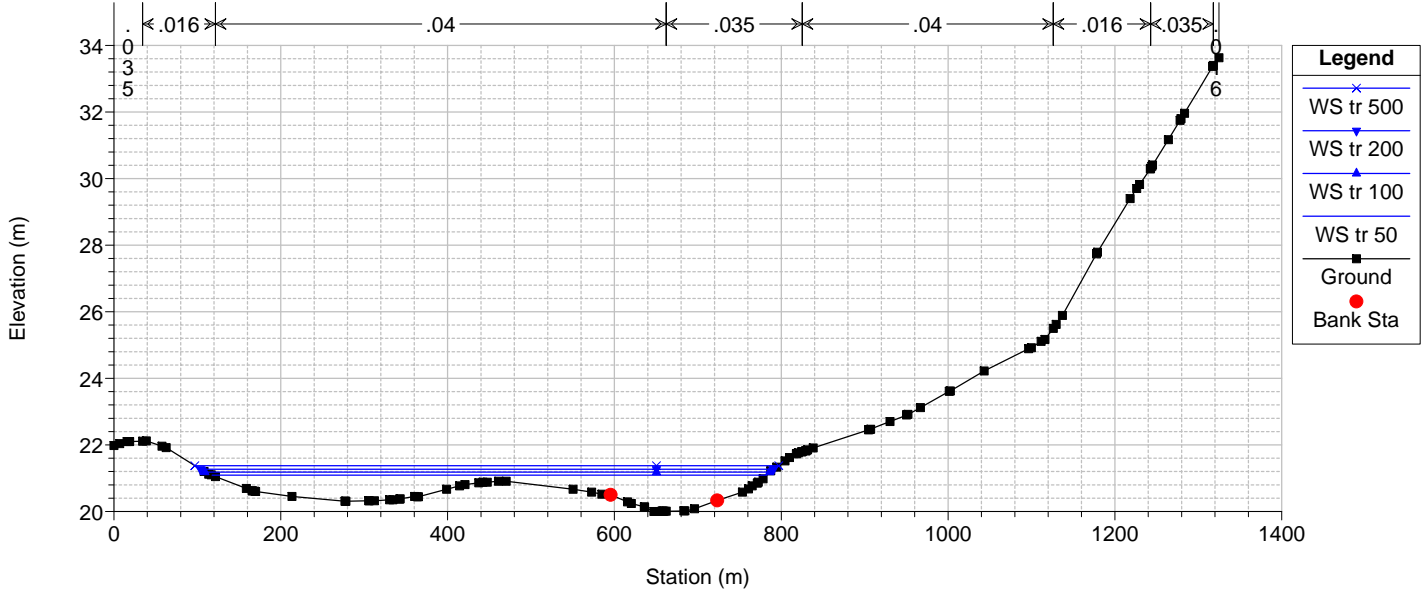
River = Canale urune Reach = Asta 3 RS = 4046.137 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

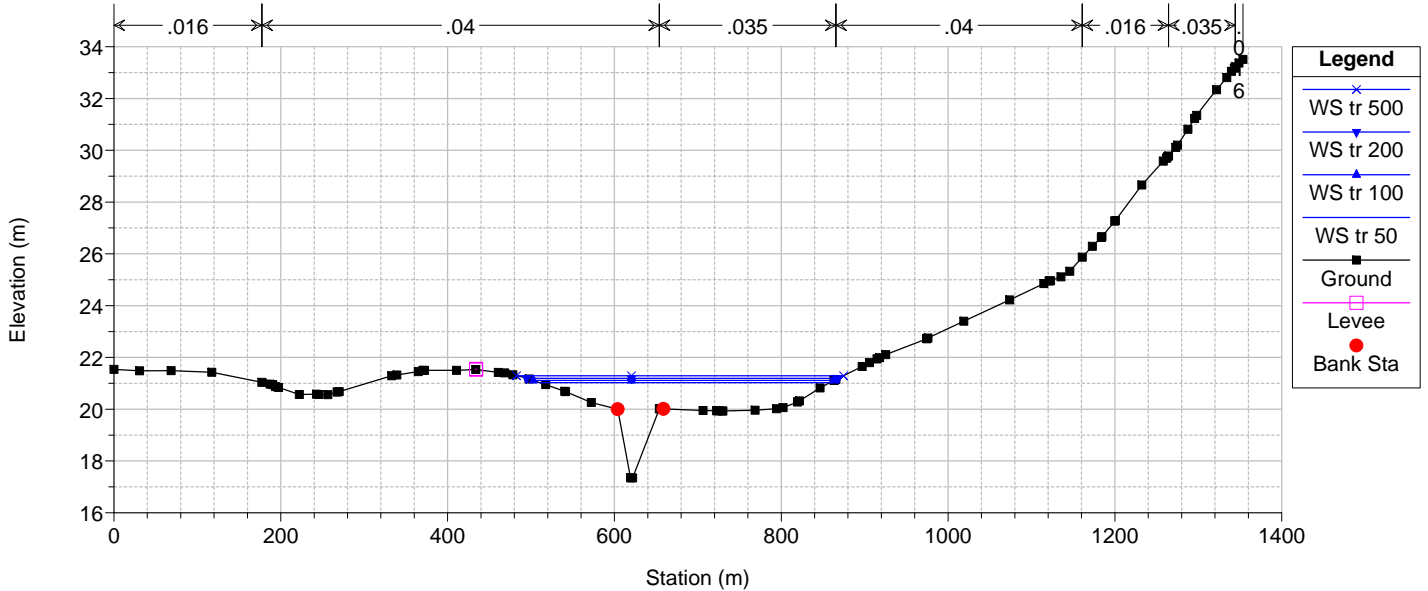
River = Canale urune Reach = Asta 3 RS = 3820.211 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

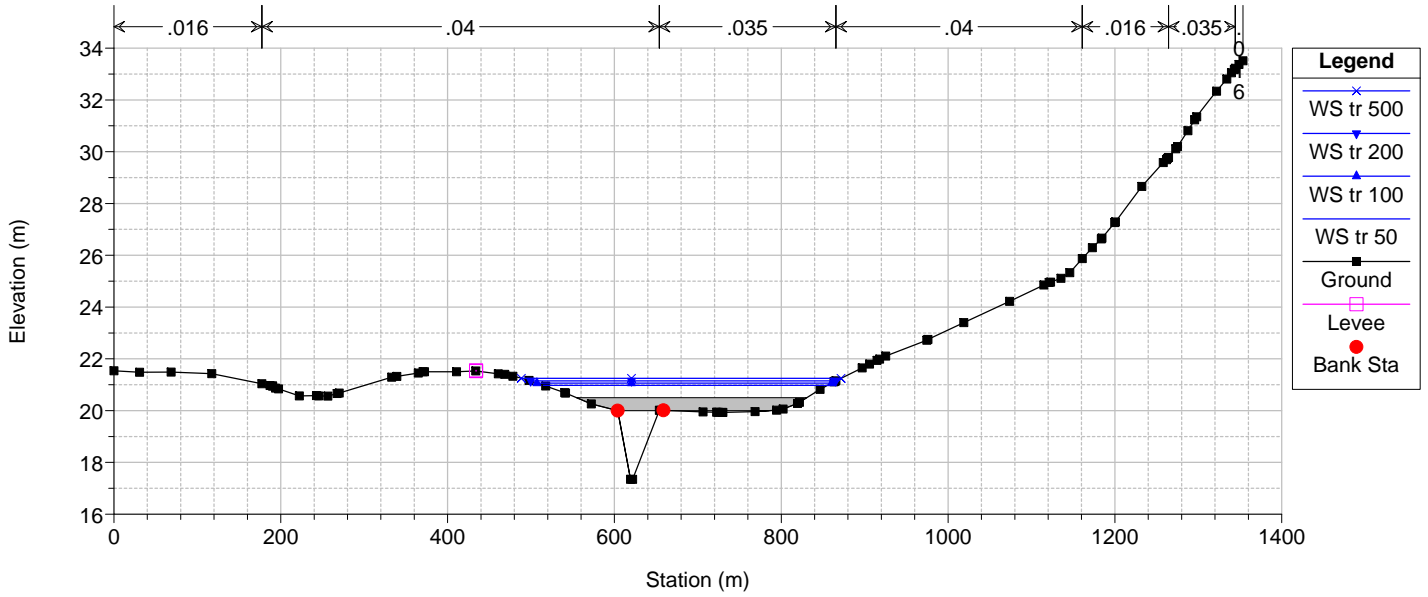
River = Canale urune Reach = Asta 3 RS = 3664.81 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

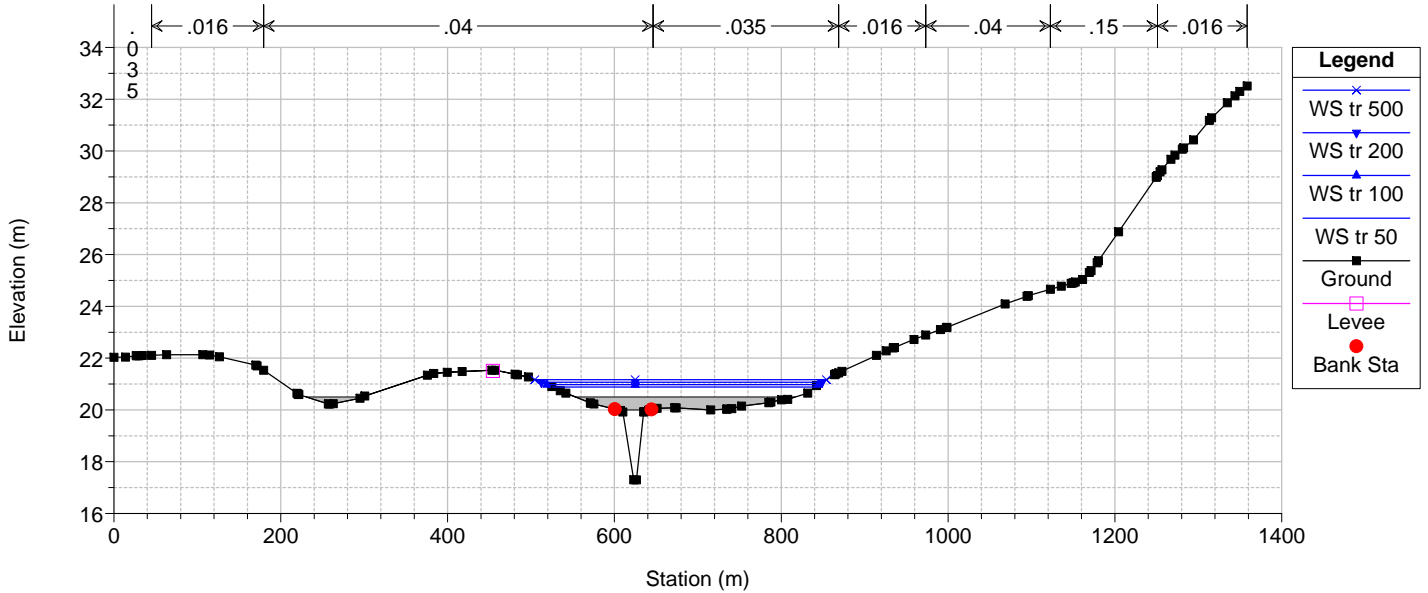
River = Canale urune Reach = Asta 3 RS = 3631.208 BR COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

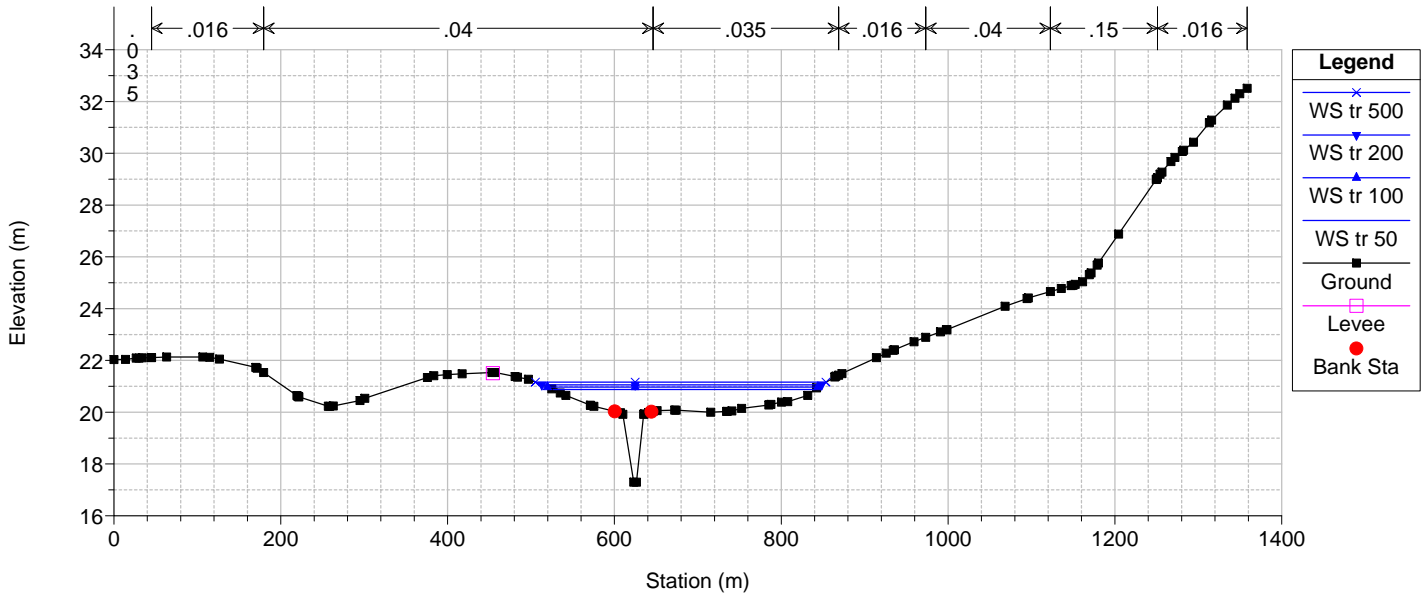
River = Canale urune Reach = Asta 3 RS = 3631.208 BR COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

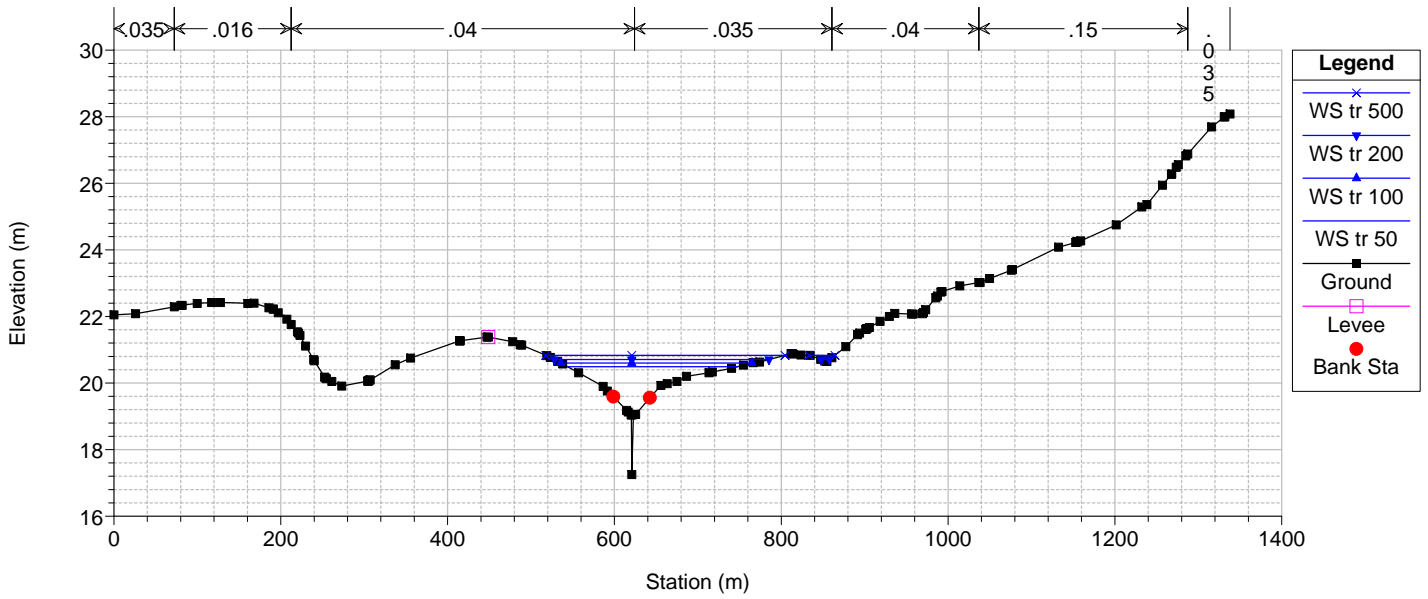
River = Canale urune Reach = Asta 3 RS = 3604.846 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

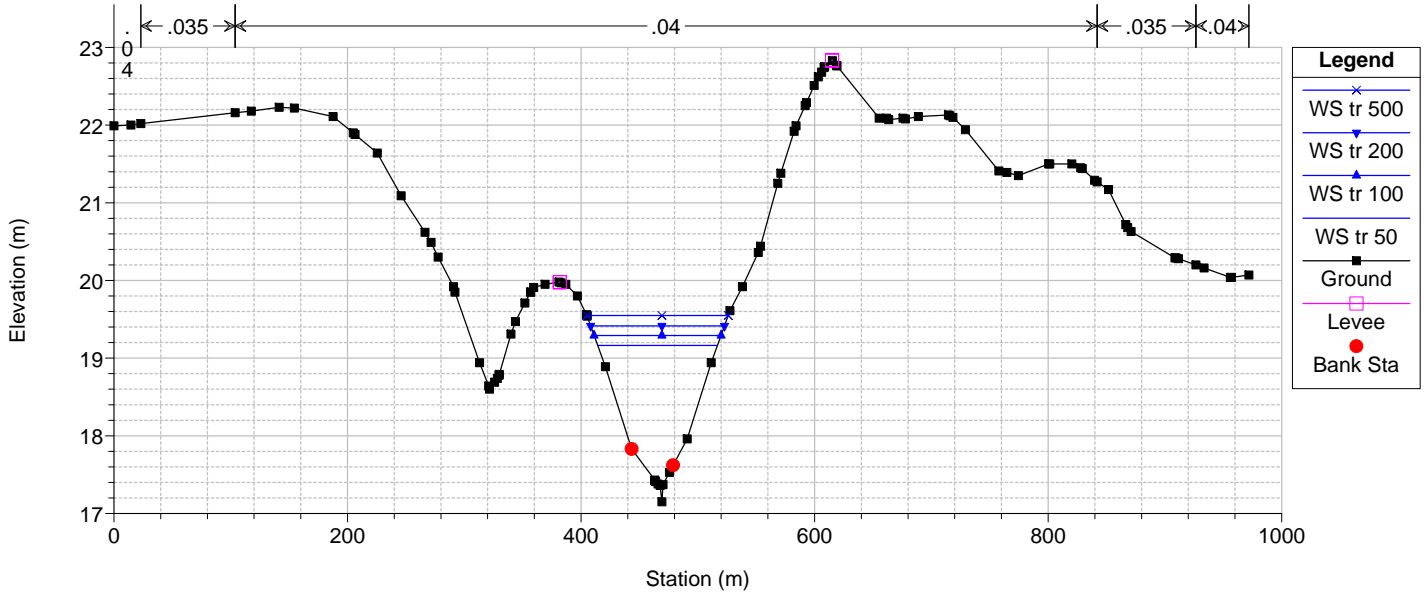
River = Canale urune Reach = Asta 3 RS = 3495.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

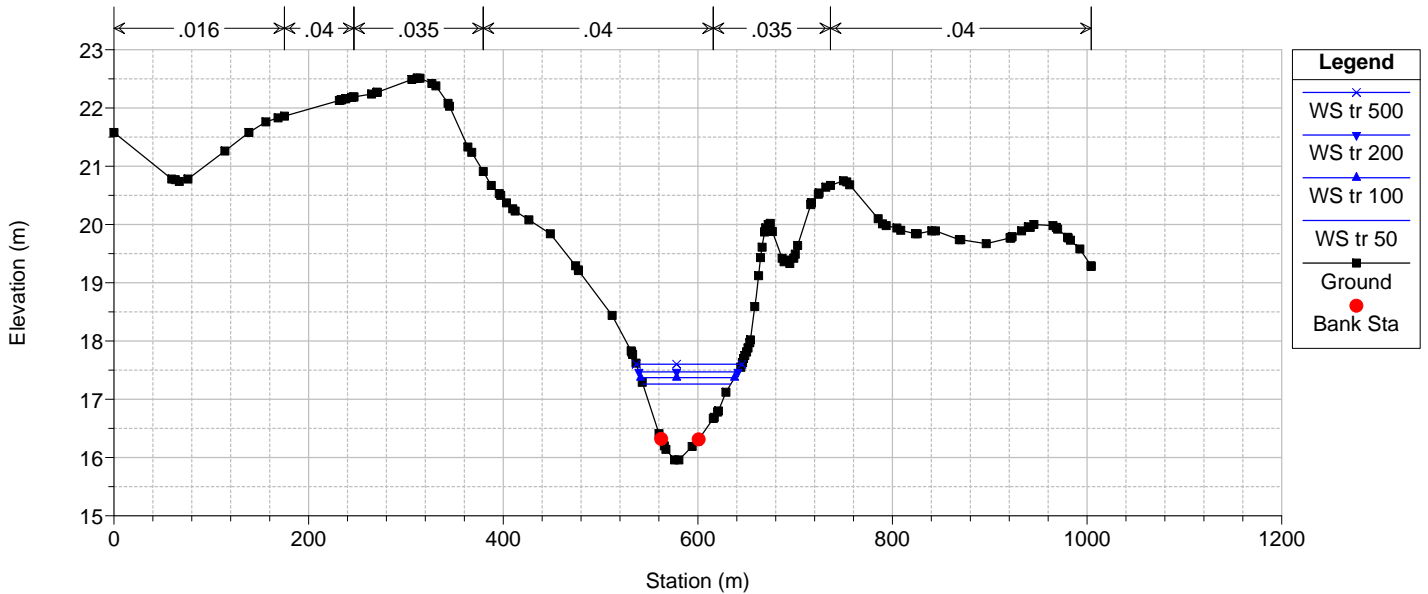
River = Canale urune Reach = Asta 3 RS = 3201.895 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

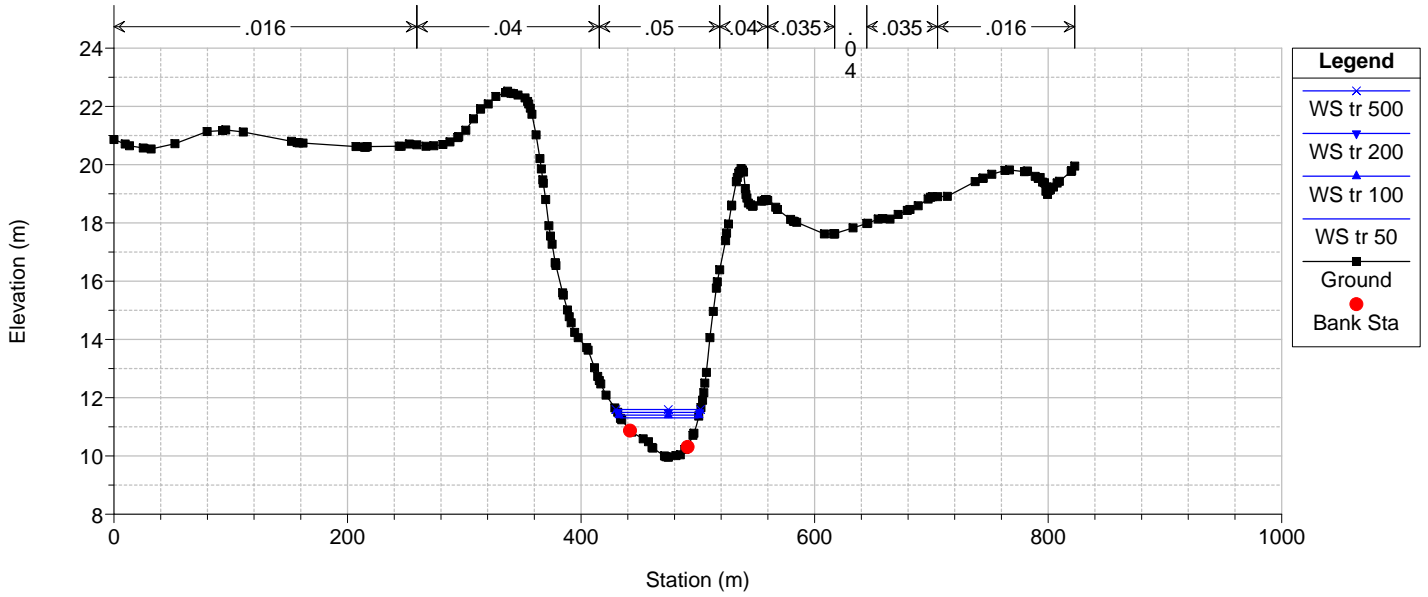
River = Canale urune Reach = Asta 3 RS = 2930.944 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

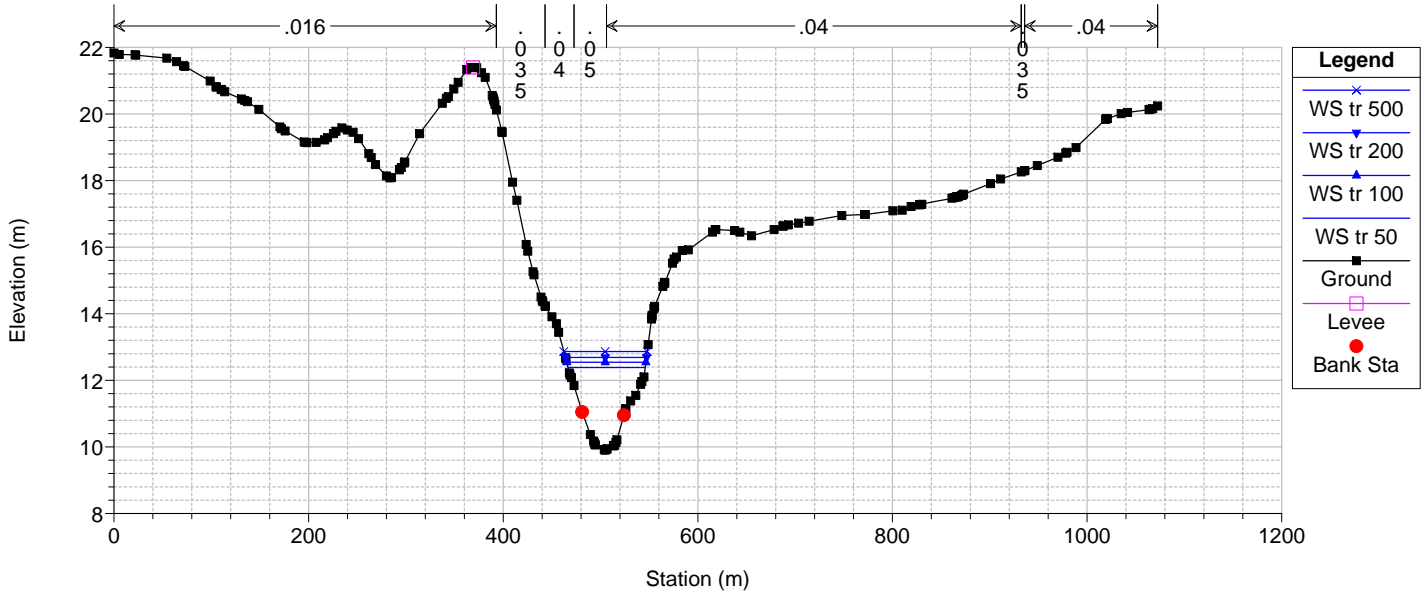
River = Canale urune Reach = Asta 3 RS = 2607.301 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

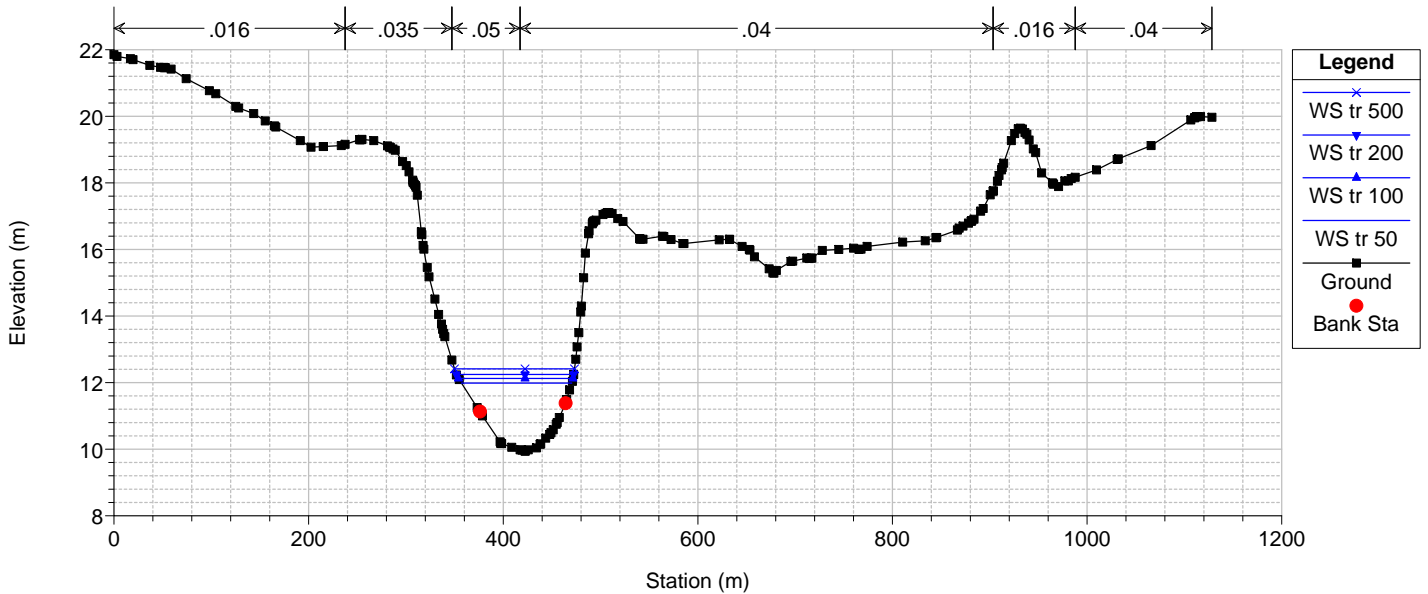
River = Canale urune Reach = Asta 4 RS = 2297.713 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

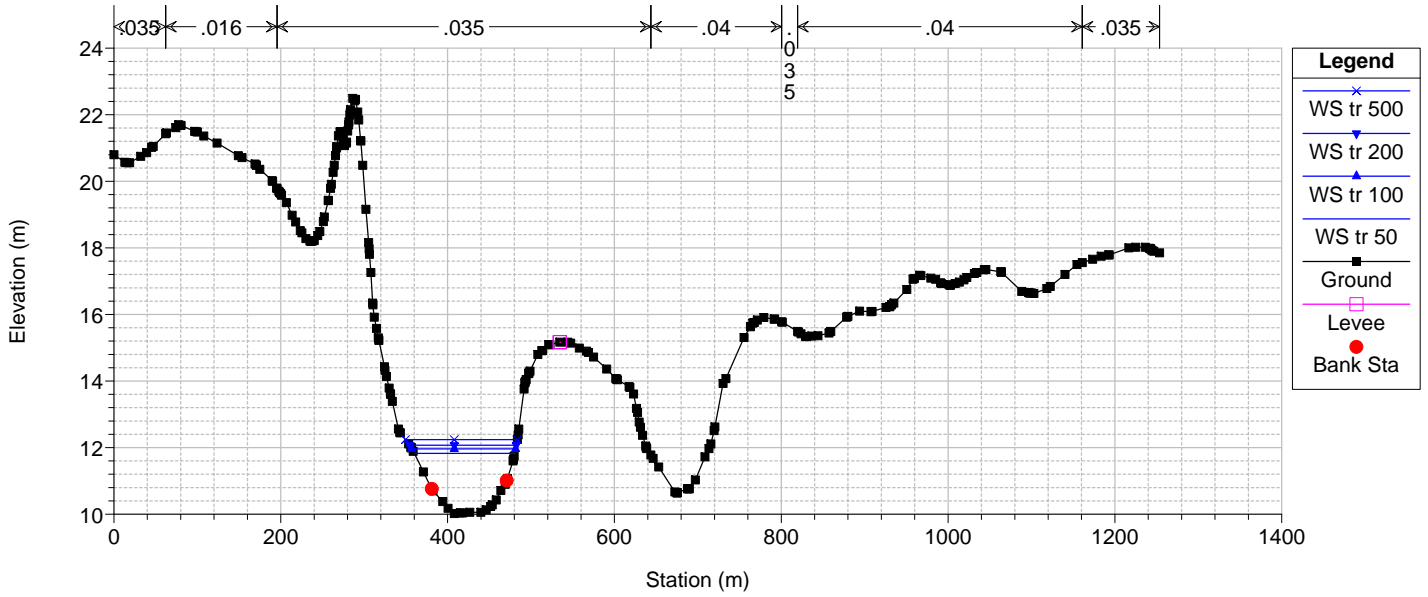
River = Canale urune Reach = Asta 4 RS = 2085.895 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

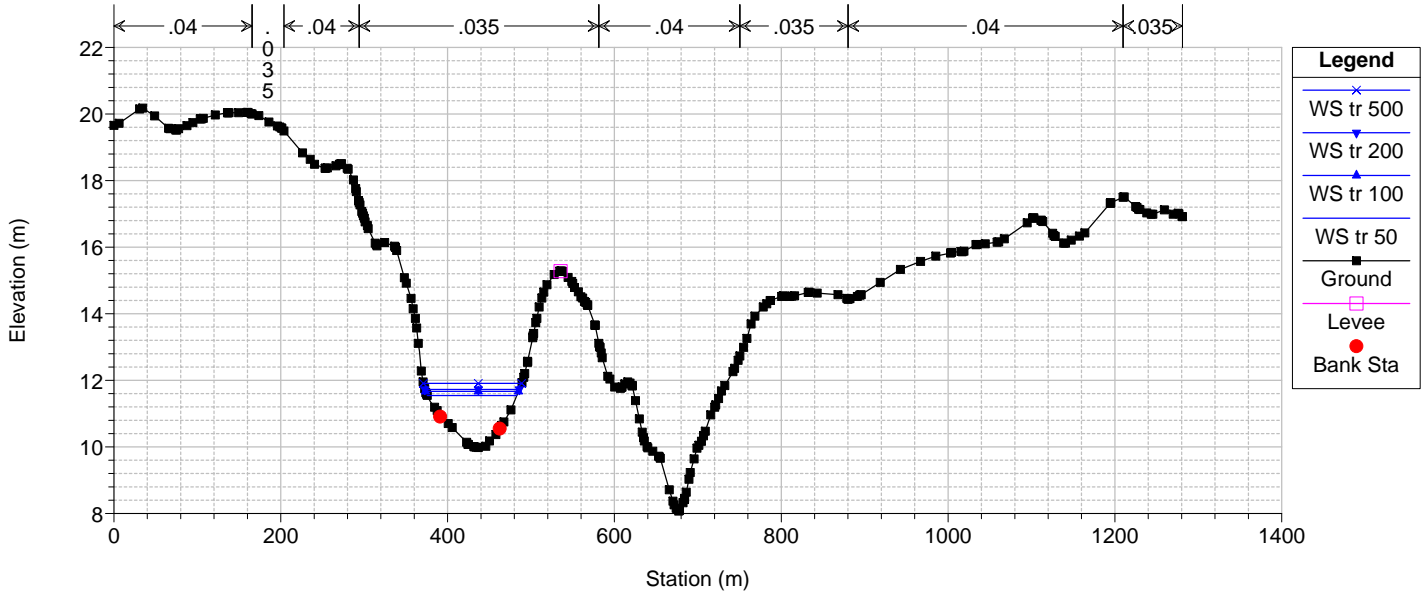
River = Canale urune Reach = Asta 4 RS = 1976.163 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

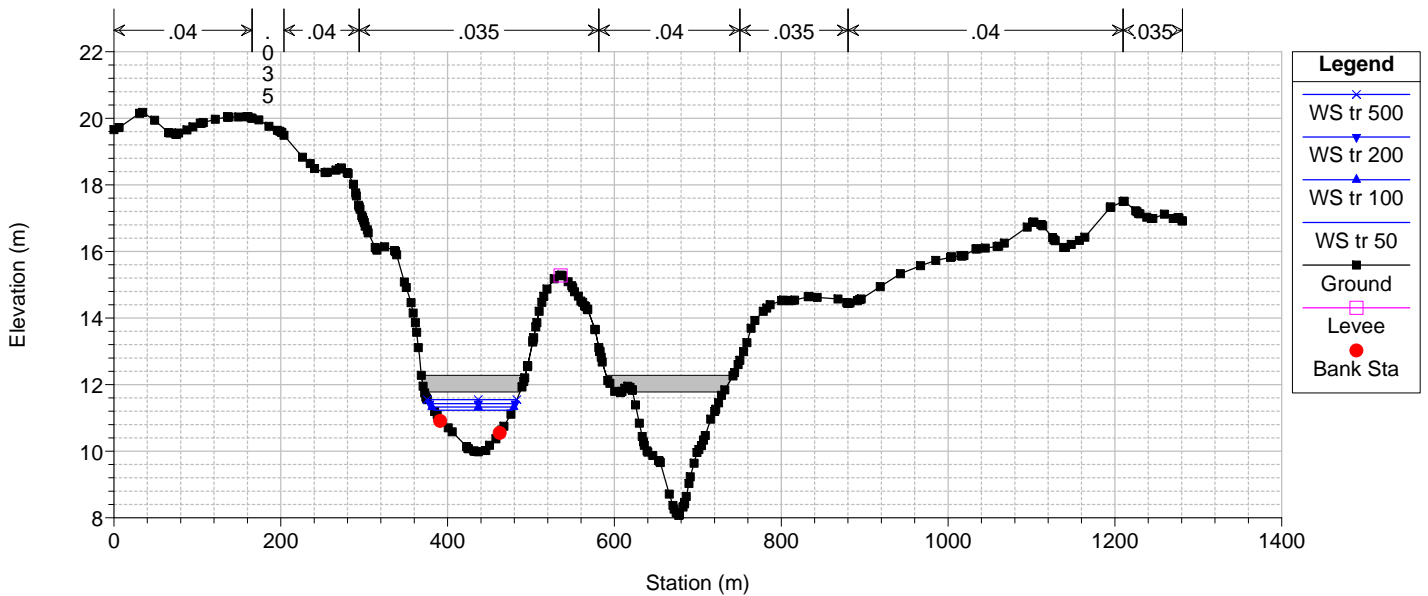
River = Canale urune Reach = Asta 4 RS = 1891.287 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

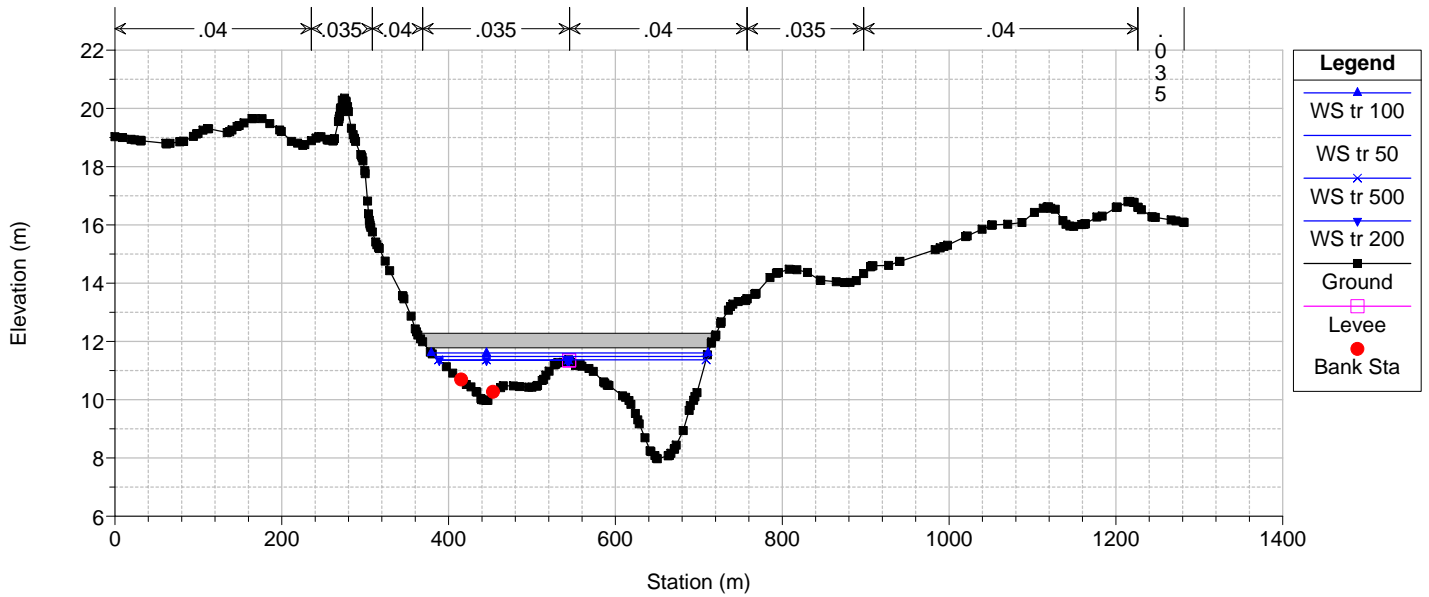
River = Canale urune Reach = Asta 4 RS = 1868.035 BR COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

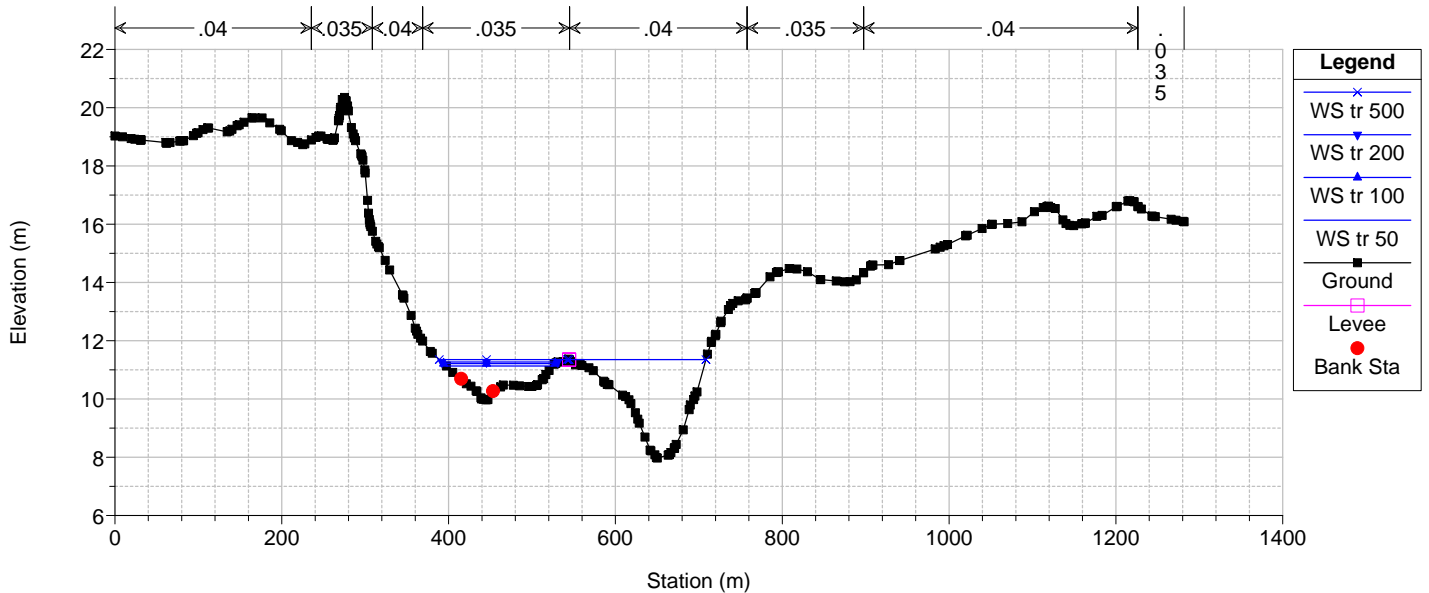
River = Canale urune Reach = Asta 4 RS = 1868.035 BR COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

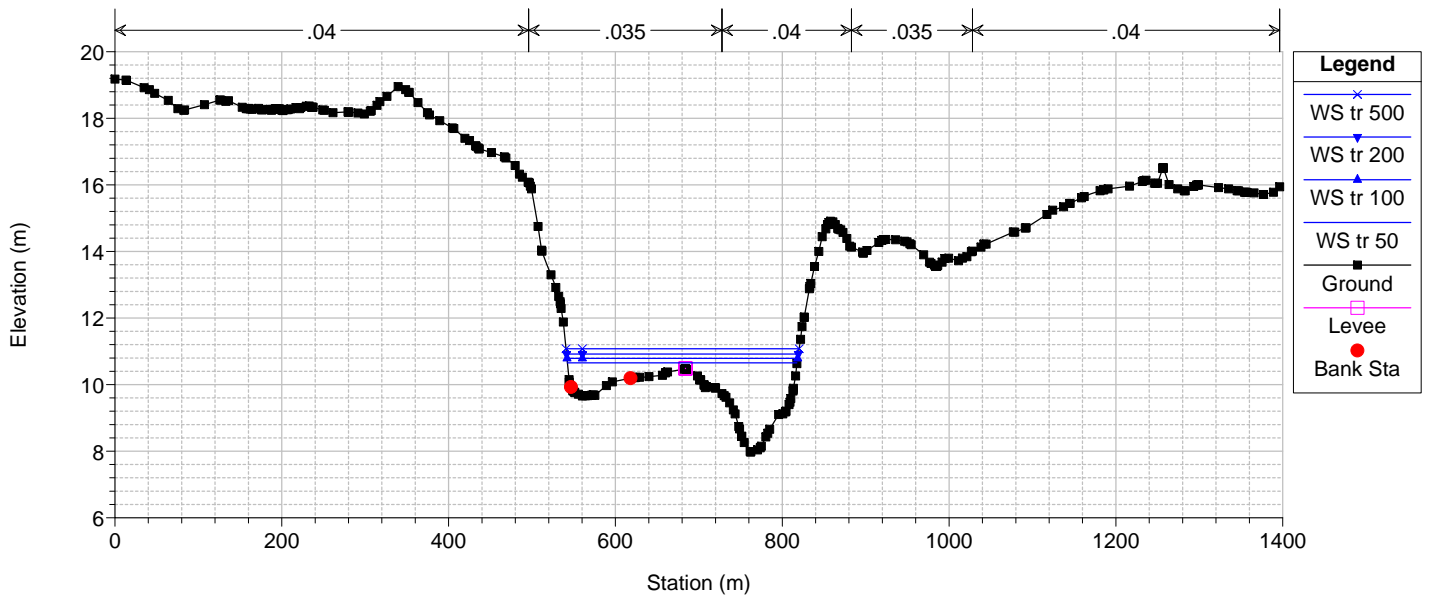
River = Canale urune Reach = Asta 4 RS = 1840.312 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

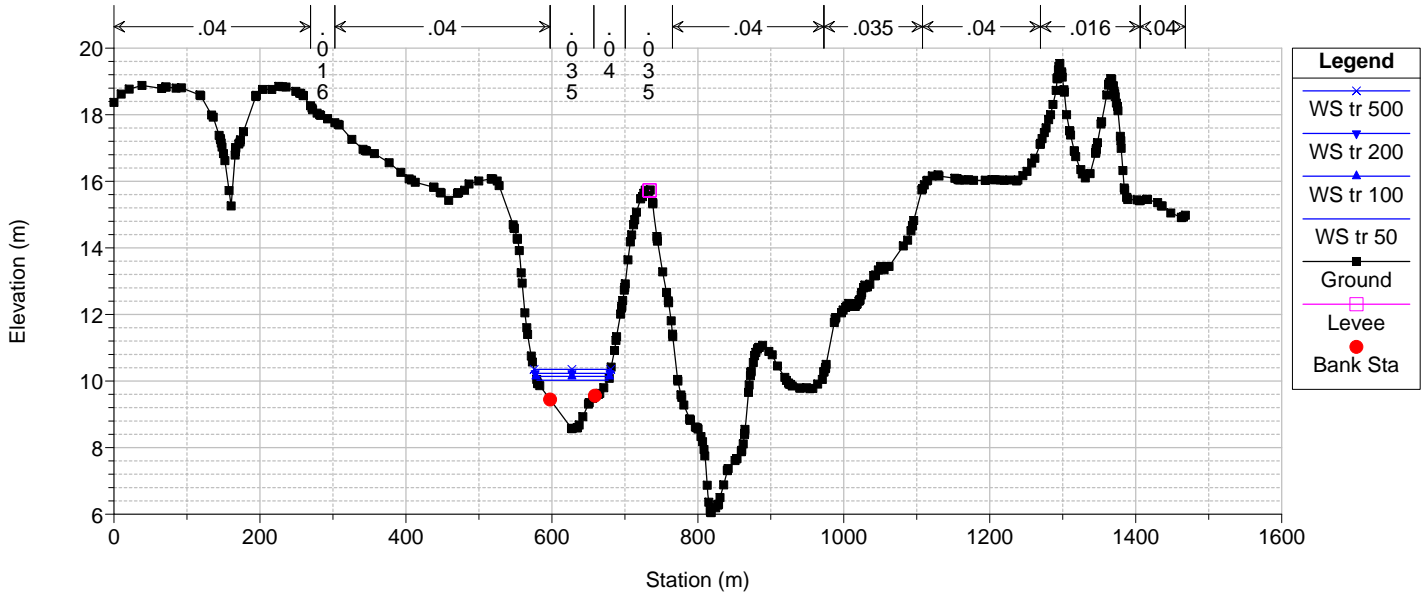
River = Canale urune Reach = Asta 4 RS = 1783.702 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

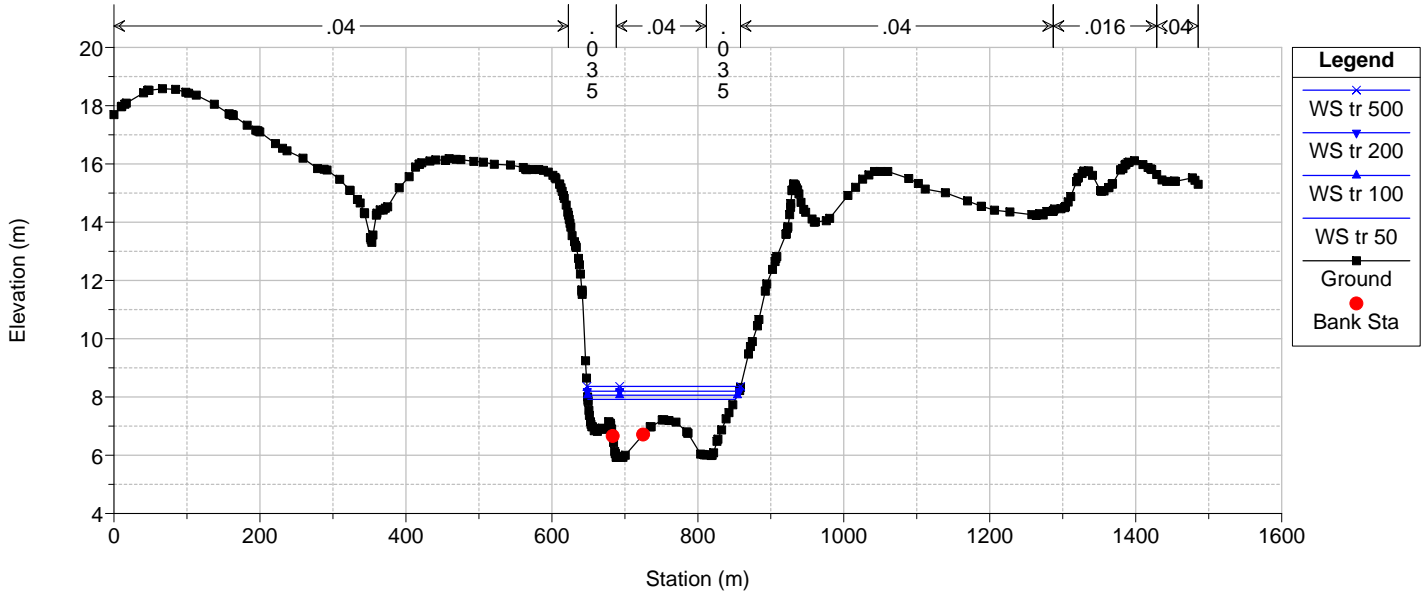
River = Canale urune Reach = Asta 4 RS = 1638.9 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

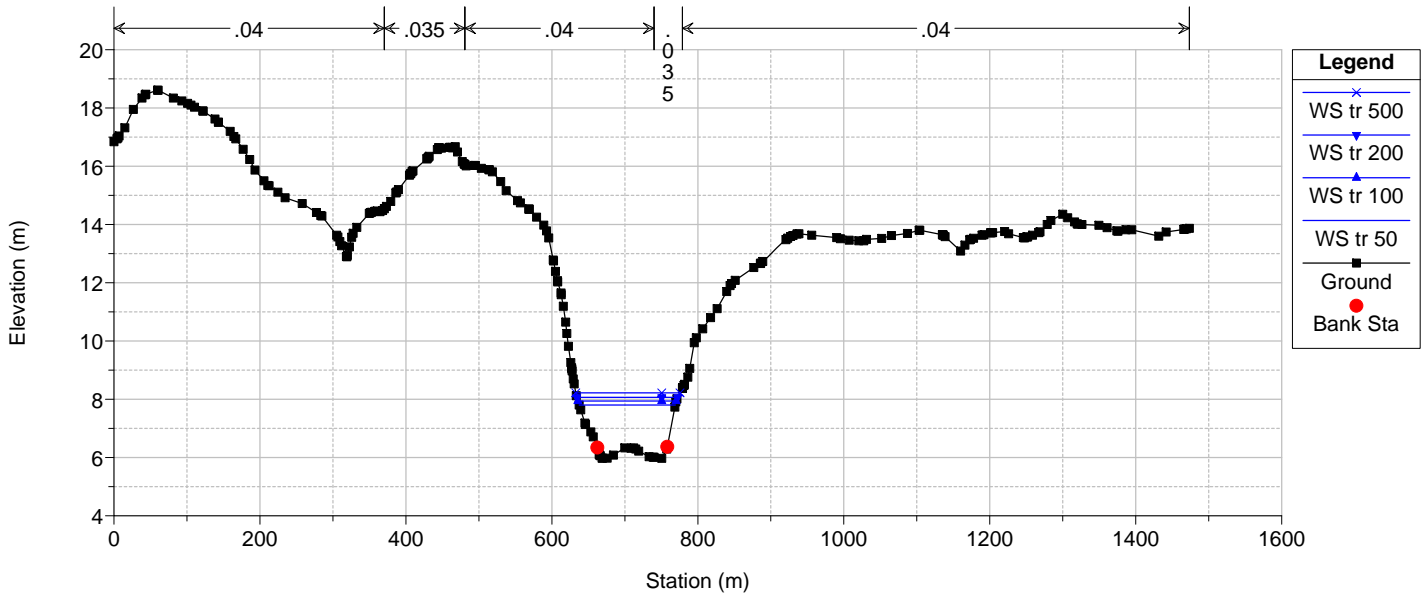
River = Canale urune Reach = Asta 4 RS = 1471.713 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

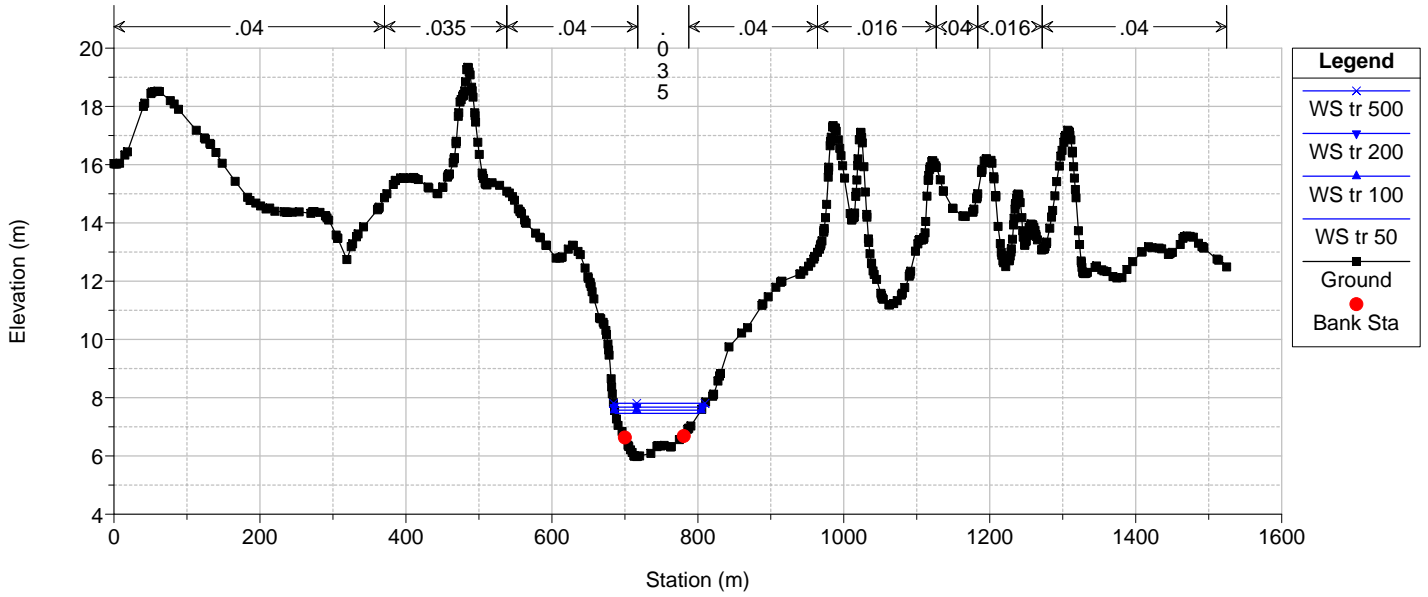
River = Canale urune Reach = Asta 4 RS = 1362.907 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

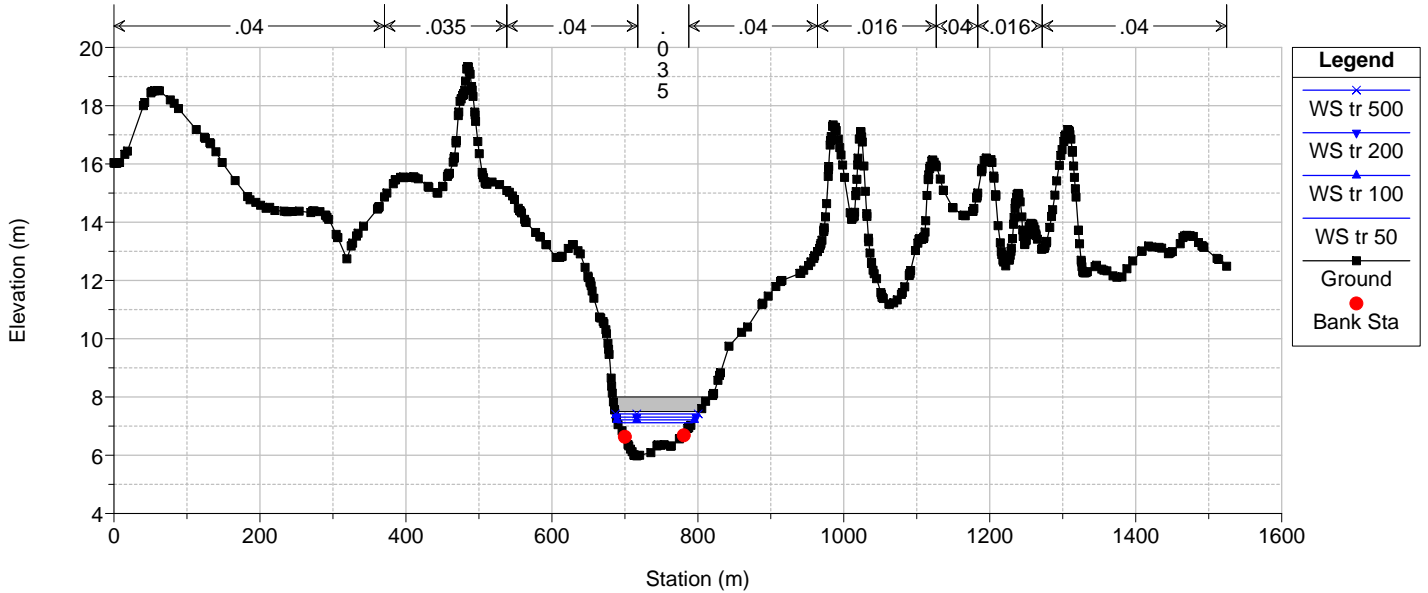
River = Canale urune Reach = Asta 4 RS = 1224.929 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

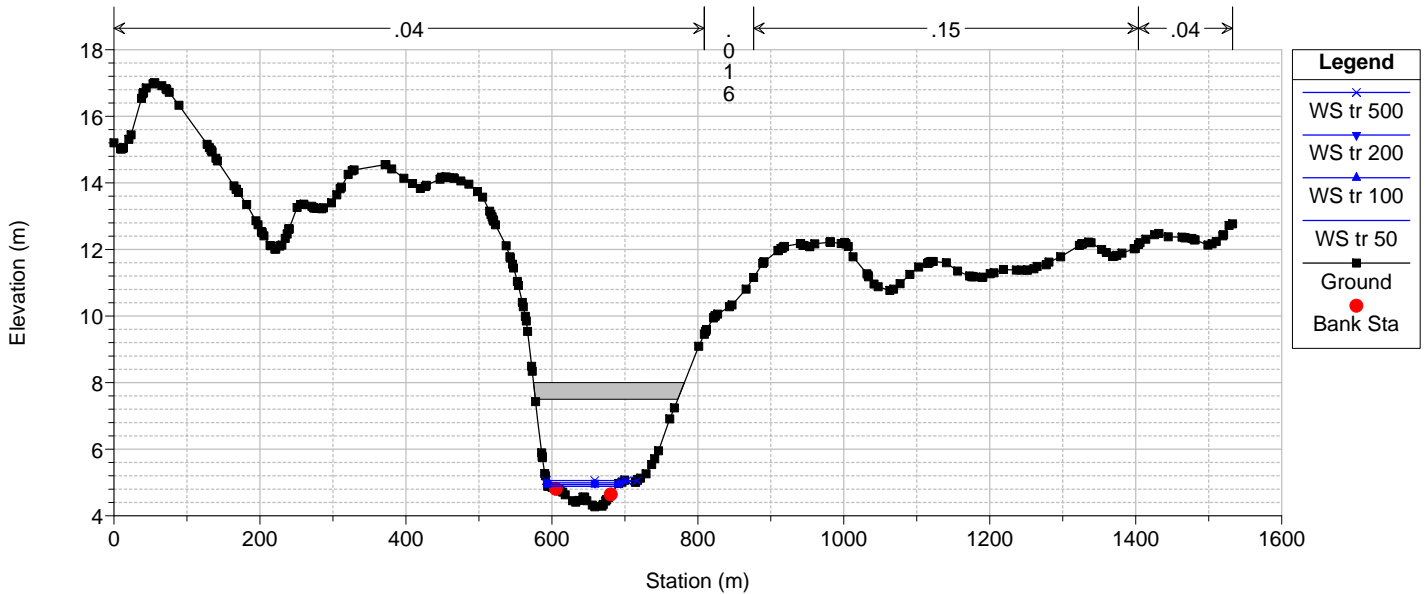
River = Canale urune Reach = Asta 4 RS = 1195.39 BR COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

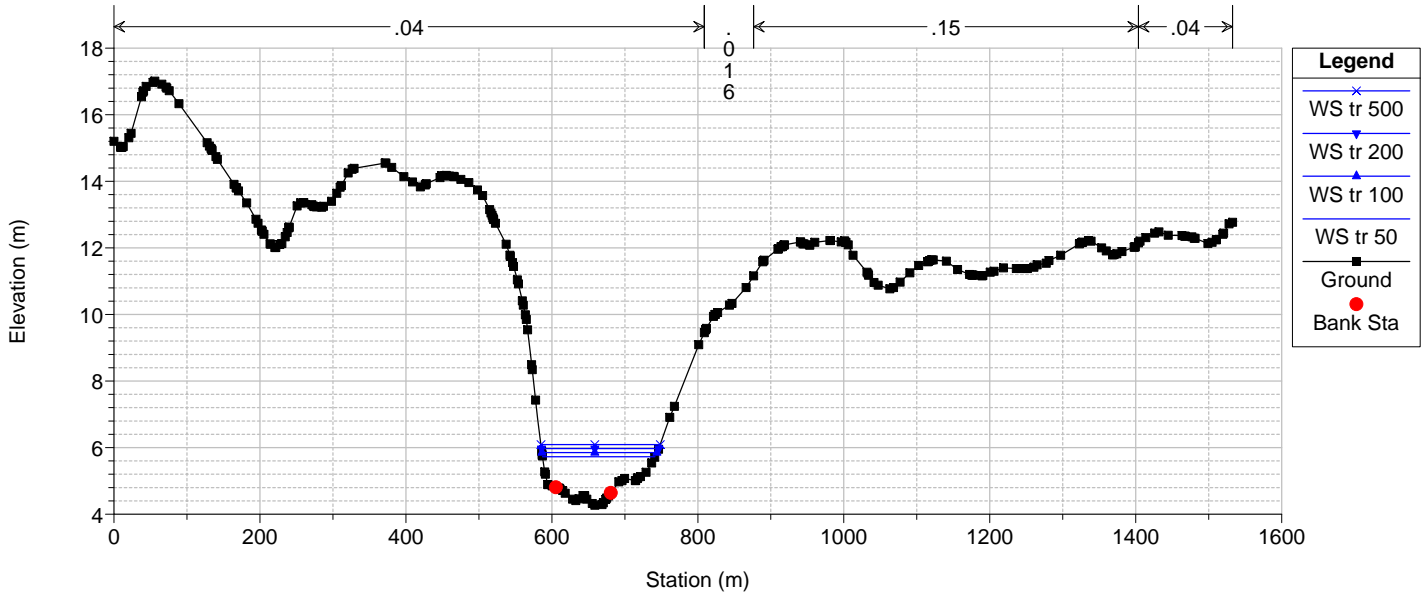
River = Canale urune Reach = Asta 4 RS = 1195.39 BR COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

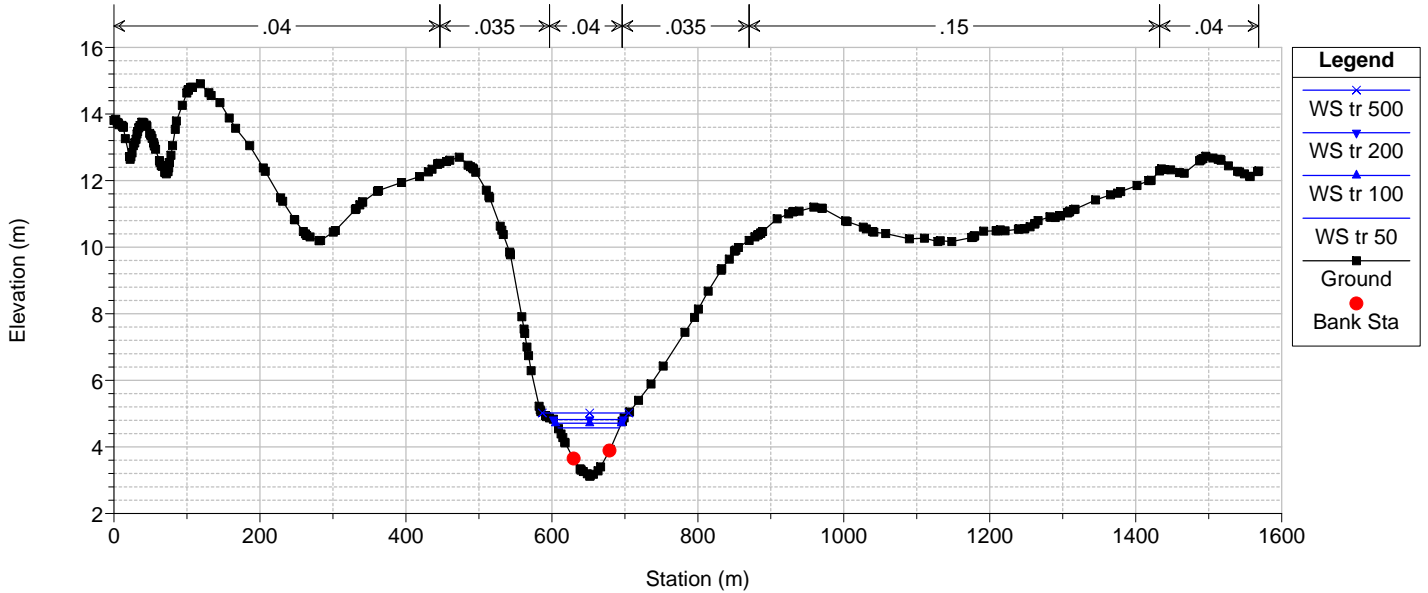
River = Canale urune Reach = Asta 4 RS = 1165.953 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

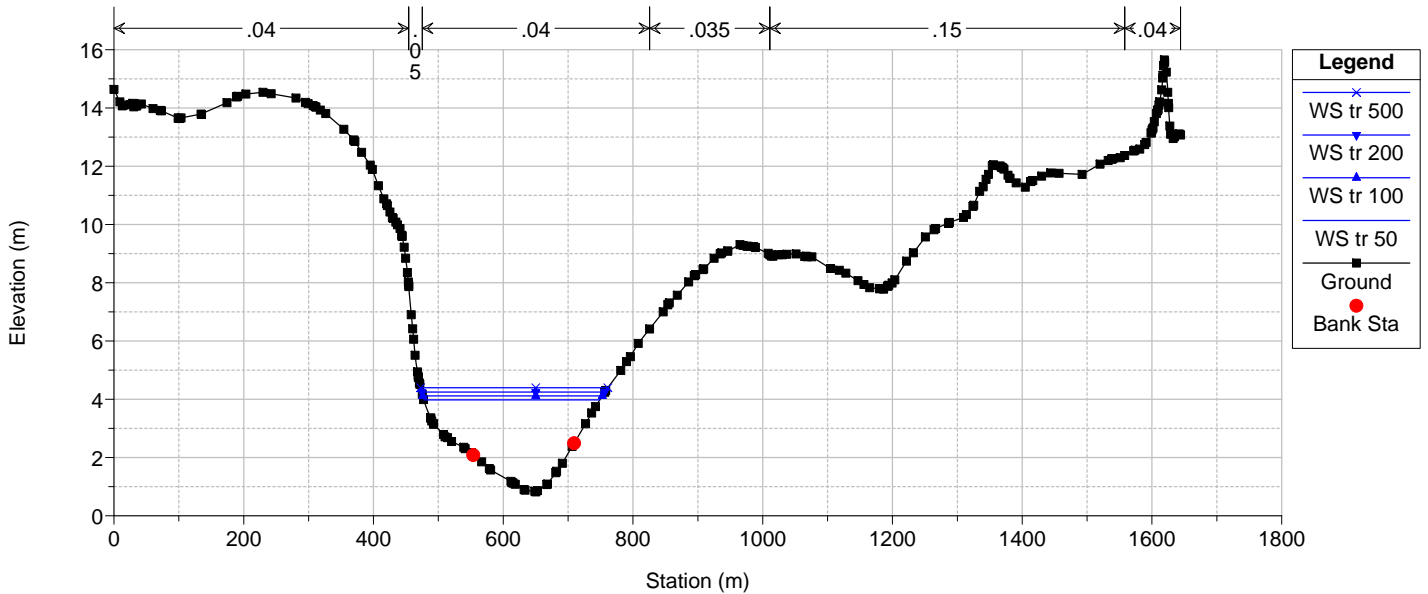
River = Canale urune Reach = Asta 4 RS = 1025.208 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

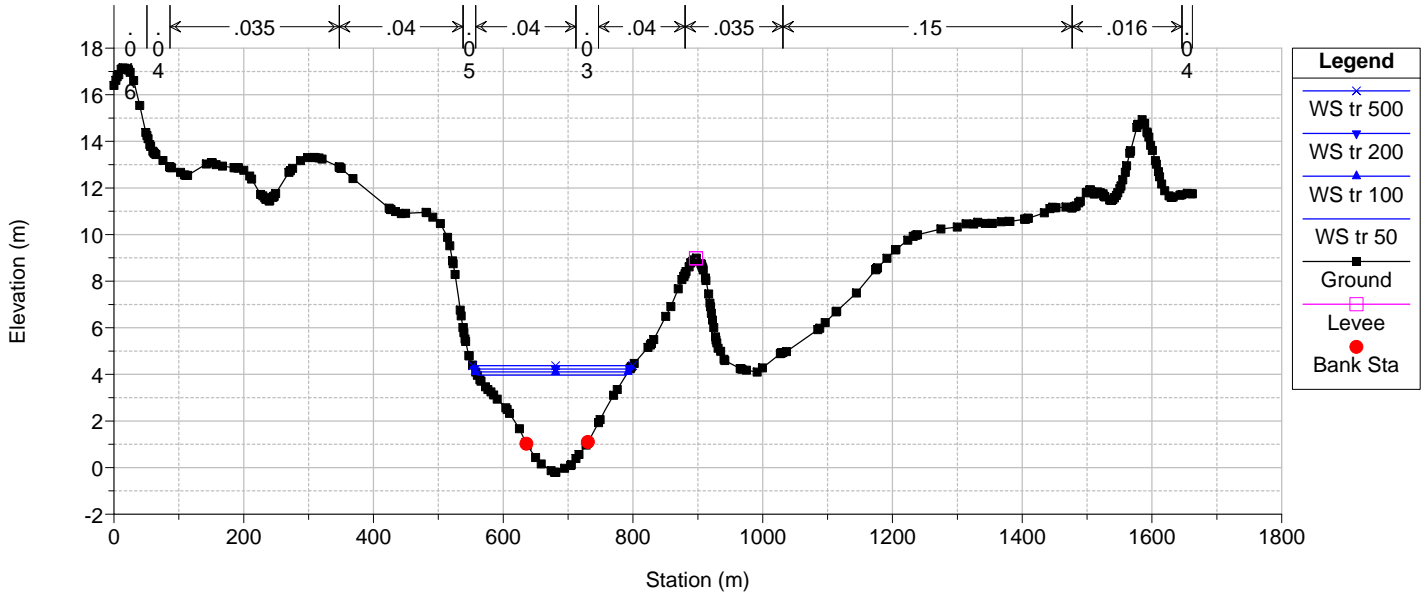
River = Canale urune Reach = Asta 4 RS = 777.8127 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

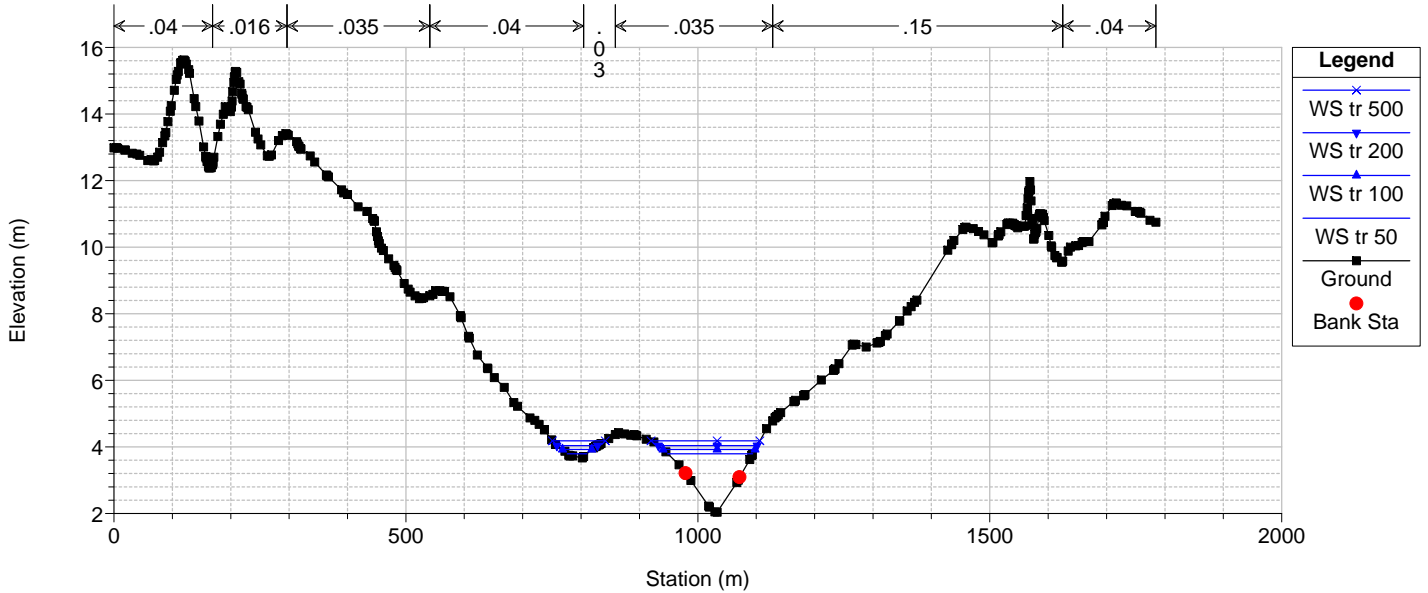
River = Canale urune Reach = Asta 4 RS = 615.8967 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

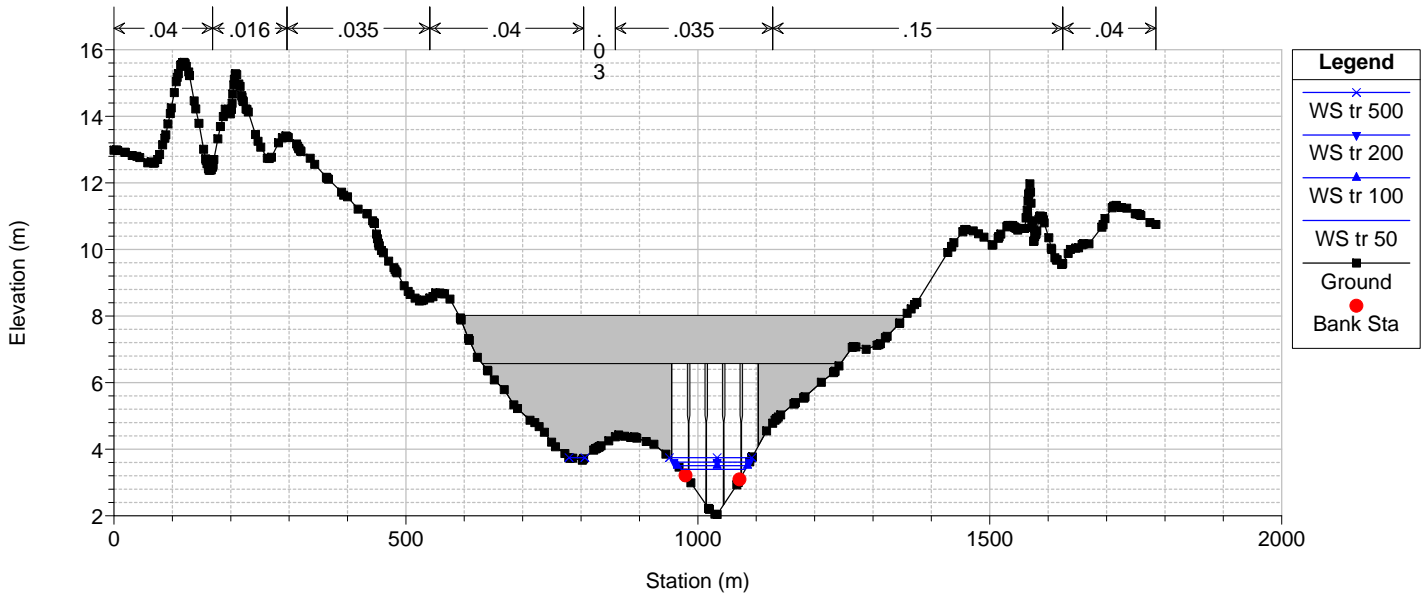
River = Canale urune Reach = Asta 4 RS = 469.6844 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

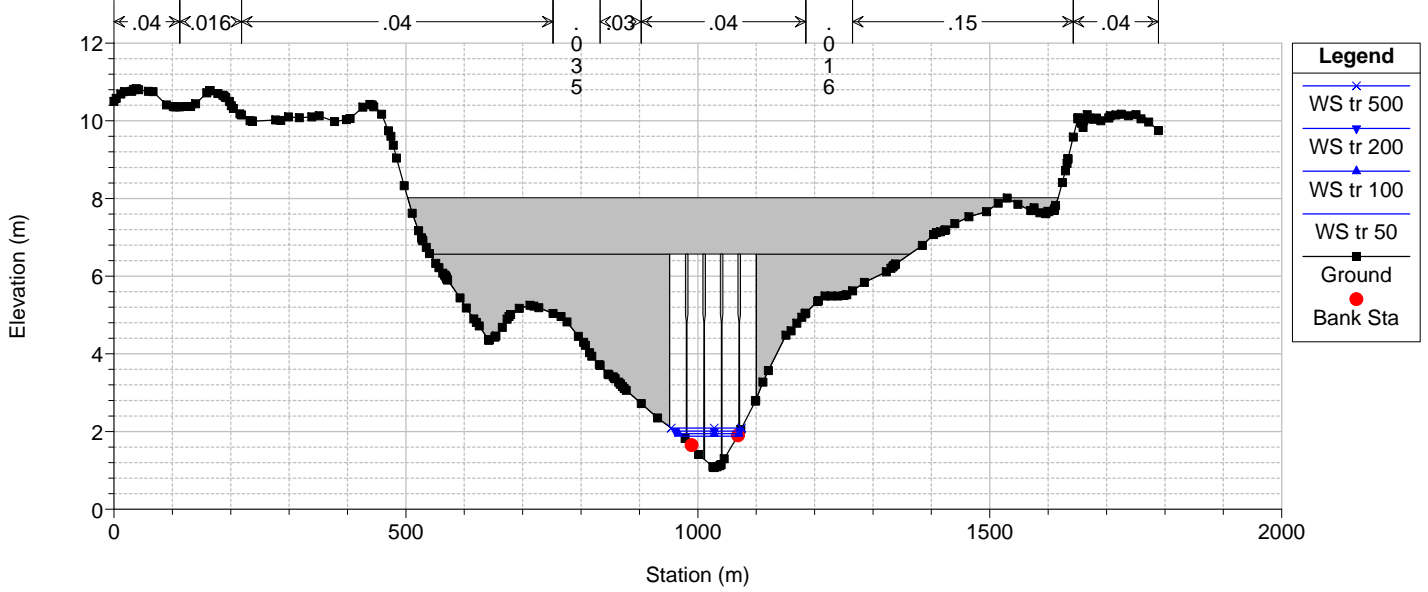
River = Canale urune Reach = Asta 4 RS = 430.4479 BR COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

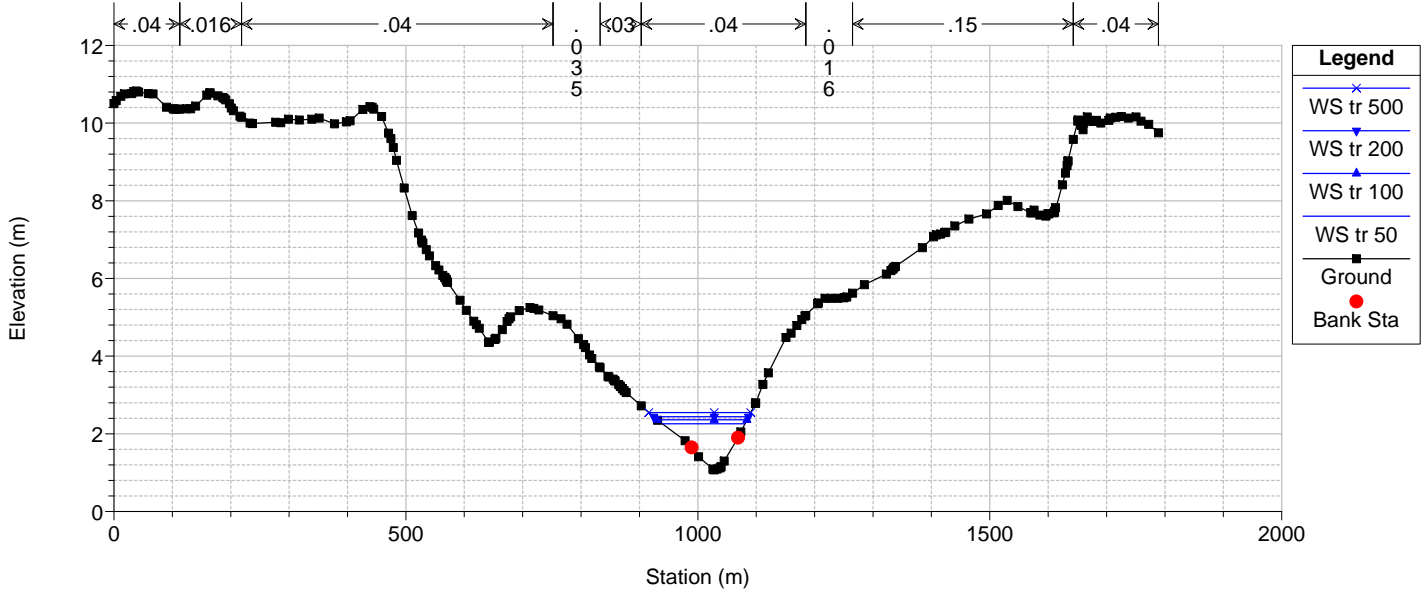
River = Canale urune Reach = Asta 4 RS = 430.4479 BR COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

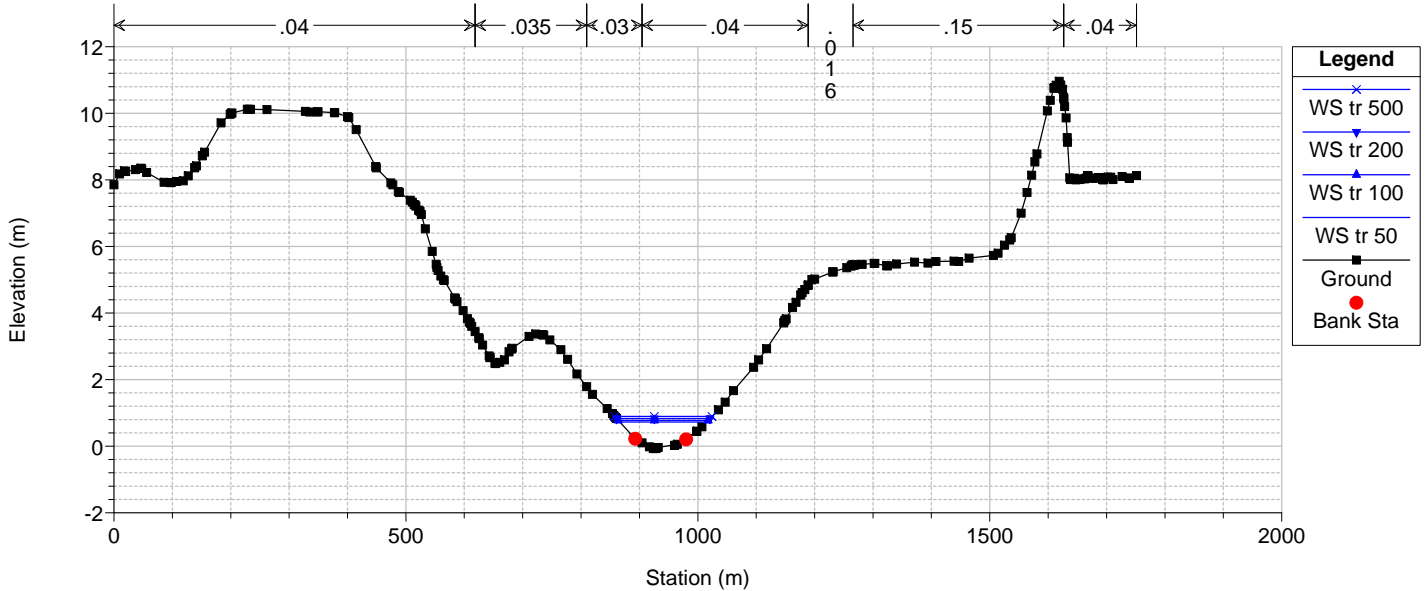
River = Canale urune Reach = Asta 4 RS = 389.4705 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

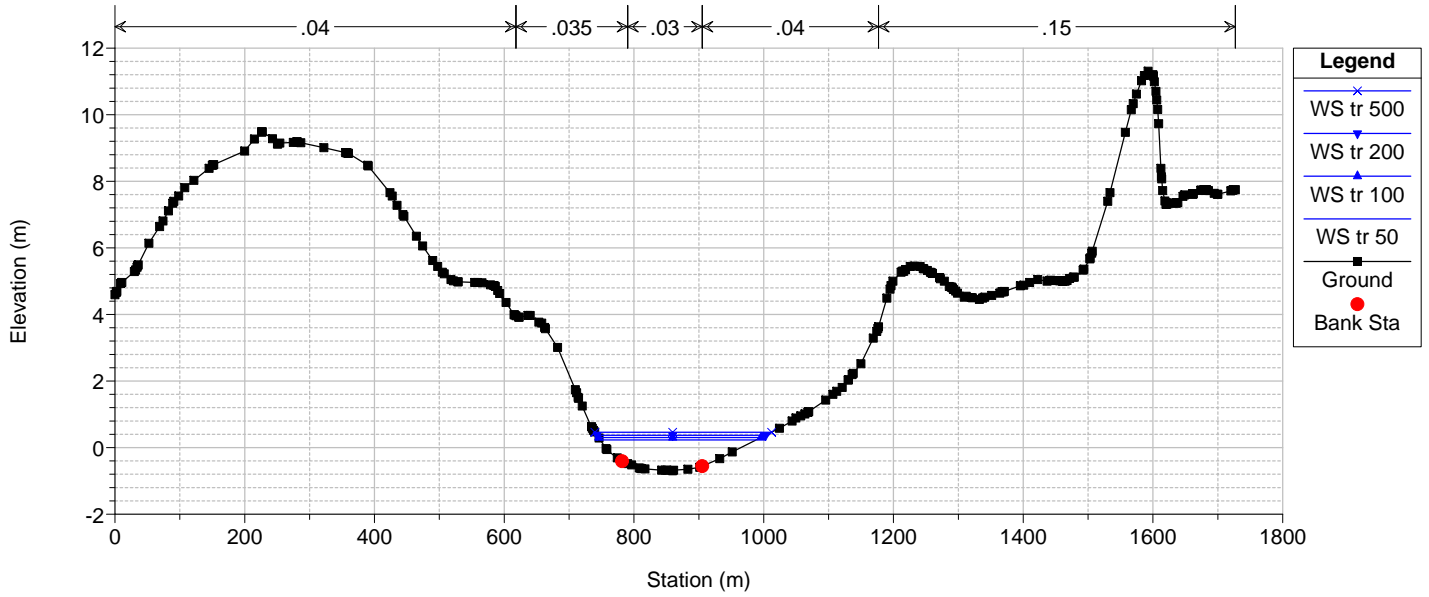
River = Canale urune Reach = Asta 4 RS = 304.3083 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

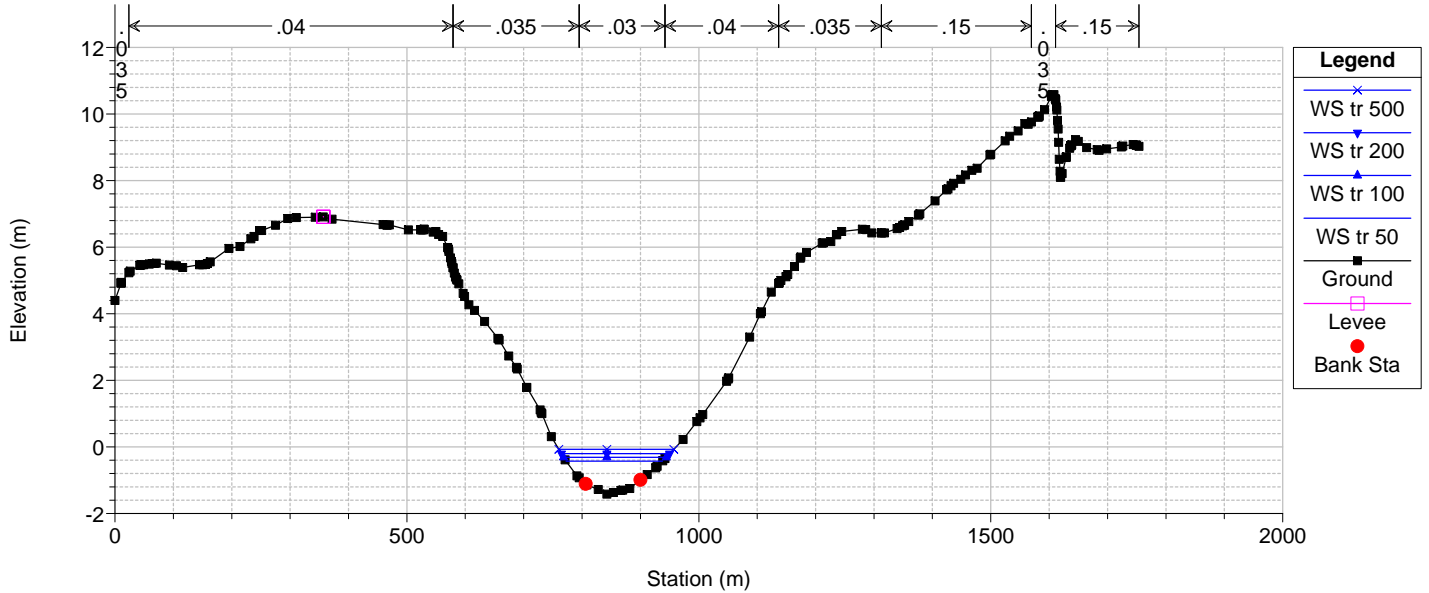
River = Canale urune Reach = Asta 4 RS = 210.728 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

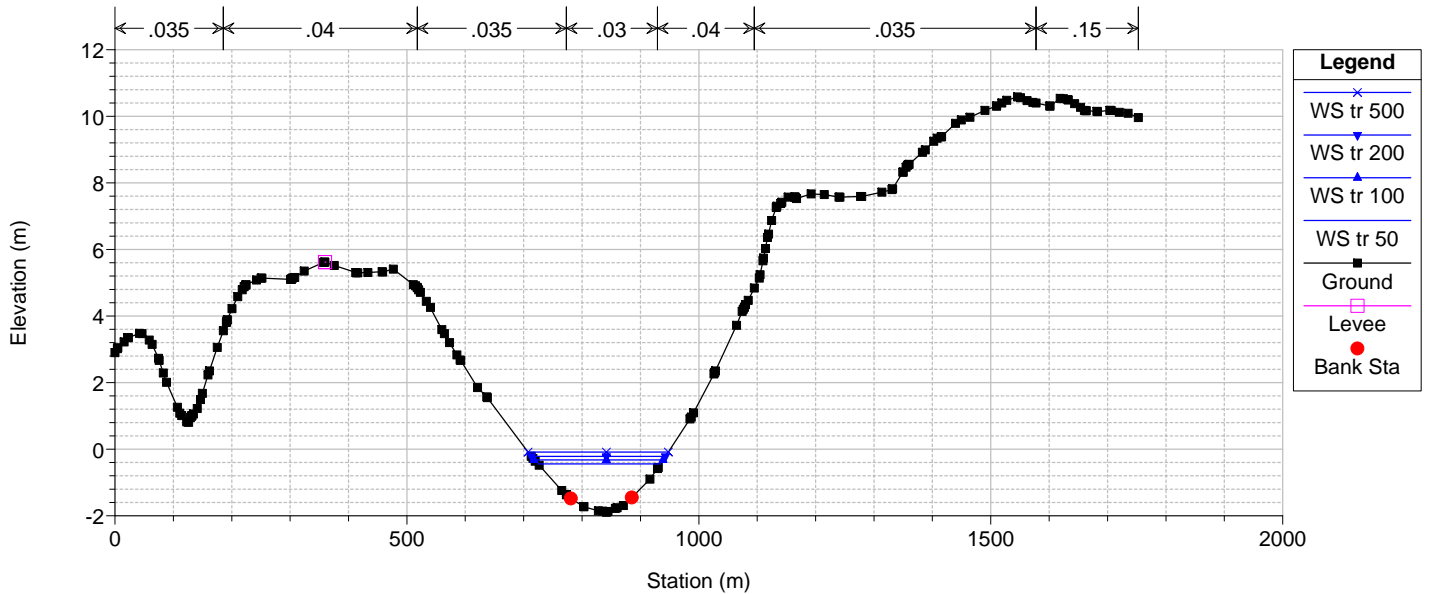
River = Canale urune Reach = Asta 4 RS = 82.51281 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

River = Canale urune Reach = Asta 4 RS = 17.42796 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
71849	9957.654	tr 50	14.37	31.02	32.80	32.46	32.82	0.000332	0.87	22.19	53.02	0.22
71849	9957.654	tr 100	16.79	31.02	33.20	32.50	33.20	0.00052	0.40	56.30	119.11	0.09
71849	9957.654	tr 200	19.21	31.02	33.68	32.53	33.68	0.000003	0.10	293.89	391.53	0.02
71849	9957.654	tr 500	22.45	31.02	33.74	32.57	33.74	0.000003	0.11	318.19	404.11	0.02
71849	9927.654	tr 50	14.37	31.00	32.81	32.28	32.82	0.000029	0.28	73.55	161.49	0.07
71849	9927.654	tr 100	16.79	31.00	33.20	32.30	33.20	0.000007	0.15	142.89	196.26	0.03
71849	9927.654	tr 200	19.21	31.00	33.68	32.32	33.68	0.000002	0.10	250.12	237.94	0.02
71849	9927.654	tr 500	22.45	31.00	33.74	32.35	33.74	0.000002	0.11	264.71	241.00	0.02
71849	9897.654	tr 50	14.37	30.96	32.81	32.33	32.81	0.000102	0.52	36.59	68.84	0.12
71849	9897.654	tr 100	16.79	30.96	33.20	32.36	33.20	0.000022	0.27	106.74	197.44	0.06
71849	9897.654	tr 200	19.21	30.96	33.68	32.39	33.68	0.000005	0.16	203.66	207.33	0.03
71849	9897.654	tr 500	22.45	30.96	33.74	32.42	33.74	0.000006	0.17	216.32	208.91	0.03
71849	9867.654	tr 50	14.37	30.84	32.78	32.44	32.81	0.000462	1.10	30.31	58.62	0.26
71849	9867.654	tr 100	16.79	30.84	33.19	32.49	33.20	0.000090	0.55	88.54	184.21	0.12
71849	9867.654	tr 200	19.21	30.84	33.68	32.53	33.68	0.000015	0.26	182.66	199.53	0.05
71849	9867.654	tr 500	22.45	30.84	33.74	32.57	33.74	0.000017	0.28	194.82	200.56	0.05
71849	9837.654	tr 50	14.37	30.81	32.76	32.44	32.79	0.000546	1.19	30.08	57.99	0.28
71849	9837.654	tr 100	16.79	30.81	33.19	32.50	33.19	0.000069	0.49	109.11	205.82	0.10
71849	9837.654	tr 200	19.21	30.81	33.68	32.54	33.68	0.000007	0.18	286.27	386.71	0.04
71849	9837.654	tr 500	22.45	30.81	33.74	32.58	33.74	0.000008	0.19	309.93	391.12	0.04
71849	9807.654	tr 50	14.37	30.80	32.77	32.40	32.77	0.000150	0.63	73.54	176.87	0.15
71849	9807.654	tr 100	16.79	30.80	33.19	32.43	33.19	0.000024	0.29	154.29	207.72	0.06
71849	9807.654	tr 200	19.21	30.80	33.68	32.45	33.68	0.000004	0.14	338.30	371.35	0.03
71849	9807.654	tr 500	22.45	30.80	33.74	32.49	33.74	0.000005	0.15	361.01	375.64	0.03
71849	9777.654	tr 50	14.37	30.78	32.75	32.41	32.77	0.000369	0.99	40.31	99.27	0.23
71849	9777.654	tr 100	16.79	30.78	33.19	32.45	33.19	0.000027	0.31	182.63	344.31	0.07
71849	9777.654	tr 200	19.21	30.78	33.68	32.48	33.68	0.000004	0.14	360.53	405.37	0.03
71849	9777.654	tr 500	22.45	30.78	33.74	32.53	33.74	0.000005	0.15	385.26	407.86	0.03
71849	9747.654	tr 50	14.37	30.77	32.74	32.39	32.76	0.000369	0.99	42.22	119.20	0.23
71849	9747.654	tr 100	16.79	30.77	33.19	32.43	33.19	0.000019	0.26	199.17	336.61	0.05
71849	9747.654	tr 200	19.21	30.77	33.68	32.47	33.68	0.000003	0.13	366.09	354.59	0.02
71849	9747.654	tr 500	22.45	30.77	33.74	32.51	33.74	0.000004	0.14	387.77	359.10	0.03
71849	9717.654	tr 50	14.37	30.76	32.74	32.32	32.75	0.000112	0.55	76.92	179.89	0.13
71849	9717.654	tr 100	16.79	30.76	33.19	32.36	33.19	0.000005	0.14	291.09	343.05	0.03
71849	9717.654	tr 200	19.21	30.76	33.68	32.39	33.68	0.000001	0.08	459.56	350.50	0.02
71849	9717.654	tr 500	22.45	30.76	33.74	32.40	33.74	0.000002	0.09	480.89	351.35	0.02
71849	9687.654	tr 50	14.37	30.73	32.74	31.80	32.74	0.000005	0.13	270.84	338.89	0.03
71849	9687.654	tr 100	16.79	30.73	33.19	31.84	33.19	0.000002	0.08	426.38	354.90	0.02
71849	9687.654	tr 200	19.21	30.73	33.68	31.86	33.68	0.000001	0.06	601.87	370.05	0.01
71849	9687.654	tr 500	22.45	30.73	33.74	31.89	33.74	0.000001	0.07	624.48	373.77	0.01
71849	9657.654	tr 50	14.37	30.69	32.74	31.27	32.74	0.000004	0.11	289.34	307.81	0.03
71849	9657.654	tr 100	16.79	30.69	33.19	31.30	33.19	0.000002	0.08	431.27	325.51	0.02
71849	9657.654	tr 200	19.21	30.69	33.68	31.32	33.68	0.000001	0.06	593.47	342.97	0.01
71849	9657.654	tr 500	22.45	30.69	33.74	31.36	33.74	0.000001	0.07	614.39	345.57	0.01
71849	9627.654	tr 50	14.37	30.68	32.74	31.61	32.74	0.000005	0.12	263.96	306.98	0.03
71849	9627.654	tr 100	16.79	30.68	33.19	31.64	33.19	0.000002	0.08	405.72	325.91	0.02
71849	9627.654	tr 200	19.21	30.68	33.68	31.67	33.68	0.000001	0.06	568.45	344.37	0.01
71849	9627.654	tr 500	22.45	30.68	33.74	31.70	33.74	0.000001	0.07	589.44	346.40	0.01
71849	9597.654	tr 50	14.37	30.66	32.74	31.90	32.74	0.000007	0.14	236.96	290.43	0.03
71849	9597.654	tr 100	16.79	30.66	33.19	31.93	33.19	0.000003	0.09	373.71	315.33	0.02
71849	9597.654	tr 200	19.21	30.66	33.68	31.96	33.68	0.000001	0.07	531.80	336.38	0.01
71849	9597.654	tr 500	22.45	30.66	33.74	31.99	33.74	0.000001	0.08	552.30	338.49	0.01
71849	9567.654	tr 50	14.37	30.65	32.74	32.10	32.74	0.000010	0.17	221.27	298.58	0.04
71849	9567.654	tr 100	16.79	30.65	33.19	32.12	33.19	0.000003	0.10	358.33	313.80	0.02
71849	9567.654	tr 200	19.21	30.65	33.68	32.14	33.68	0.000001	0.08	514.68	330.05	0.01
71849	9567.654	tr 500	22.45	30.65	33.74	32.16	33.74	0.000001	0.09	534.80	332.32	0.02
71849	9537.654	tr 50	14.37	30.64	32.74	32.08	32.74	0.000010	0.17	218.27	307.53	0.04
71849	9537.654	tr 100	16.79	30.64	33.19	32.09	33.19	0.000003	0.11	359.64	322.84	0.02
71849	9537.654	tr 200	19.21	30.64	33.68	32.11	33.68	0.000001	0.08	520.04	337.86	0.01
71849	9537.654	tr 500	22.45	30.64	33.74	32.13	33.74	0.000001	0.09	540.62	339.74	0.02
71849	9507.654	tr 50	14.37	30.62	32.74	31.91	32.74	0.000016	0.22	159.92	201.58	0.05
71849	9507.654	tr 100	16.79	30.62	33.19	31.93	33.19	0.000006	0.15	261.88	258.07	0.03
71849	9507.654	tr 200	19.21	30.62	33.68	31.95	33.68	0.000002	0.11	408.24	324.16	0.02
71849	9507.654	tr 500	22.45	30.62	33.74	31.96	33.74	0.000003	0.12	427.99	326.43	0.02
71849	9477.654	tr 50	14.37	30.58	32.74	31.74	32.74	0.000009	0.18	190.68	194.95	0.04
71849	9477.654	tr 100	16.79	30.58	33.19	31.76	33.19	0.000004	0.13	285.00	230.03	0.03
71849	9477.654	tr 200	19.21	30.58	33.68	31.77	33.68	0.000002	0.11	430.18	325.88	0.02

HEC-RAS Plan: Plan 04 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
71849	9477.654	tr 500	22.45	30.58	33.74	31.79	33.74	0.000002	0.12	450.04	328.46	0.02
71849	9447.654	tr 50	14.37	30.57	32.74	31.75	32.74	0.000011	0.19	173.49	189.37	0.04
71849	9447.654	tr 100	16.79	30.57	33.19	31.76	33.19	0.000004	0.14	302.87	312.58	0.03
71849	9447.654	tr 200	19.21	30.57	33.68	31.78	33.68	0.000002	0.10	458.61	330.43	0.02
71849	9447.654	tr 500	22.45	30.57	33.74	31.80	33.74	0.000002	0.11	478.75	332.99	0.02
71849	9417.654	tr 50	14.37	30.55	32.74	32.05	32.74	0.000035	0.32	114.74	168.65	0.07
71849	9417.654	tr 100	16.79	30.55	33.19	32.07	33.19	0.000008	0.18	234.19	244.93	0.04
71849	9417.654	tr 200	19.21	30.55	33.68	32.09	33.68	0.000003	0.12	354.72	251.04	0.02
71849	9417.654	tr 500	22.45	30.55	33.74	32.12	33.74	0.000003	0.13	369.98	251.76	0.02
71849	9387.654	tr 50	14.37	30.53	32.74	32.19	32.74	0.000089	0.51	78.95	138.20	0.11
71849	9387.654	tr 100	16.79	30.53	33.19	32.22	33.19	0.000010	0.20	212.62	228.96	0.04
71849	9387.654	tr 200	19.21	30.53	33.68	32.25	33.68	0.000004	0.13	326.77	240.33	0.02
71849	9387.654	tr 500	22.45	30.53	33.74	32.28	33.74	0.000004	0.15	341.40	242.40	0.03
71849	9357.654	tr 50	14.37	30.51	32.74	32.30	32.74	0.000054	0.38	109.16	214.65	0.09
71849	9357.654	tr 100	16.79	30.51	33.19	32.33	33.19	0.000010	0.19	211.49	234.45	0.04
71849	9357.654	tr 200	19.21	30.51	33.68	32.36	33.68	0.000003	0.12	333.63	265.14	0.02
71849	9357.654	tr 500	22.45	30.51	33.74	32.40	33.74	0.000004	0.14	349.78	267.76	0.03
71849	9327.654	tr 50	14.37	30.48	32.73	32.19	32.74	0.000036	0.32	124.13	212.73	0.07
71849	9327.654	tr 100	16.79	30.48	33.19	32.22	33.19	0.000008	0.18	229.11	256.01	0.04
71849	9327.654	tr 200	19.21	30.48	33.68	32.24	33.68	0.000003	0.11	359.33	277.24	0.02
71849	9327.654	tr 500	22.45	30.48	33.74	32.26	33.74	0.000003	0.13	376.20	279.41	0.02
71849	9297.654	tr 50	14.37	30.47	32.73	32.12	32.73	0.000034	0.32	124.78	208.76	0.07
71849	9297.654	tr 100	16.79	30.47	33.19	32.16	33.19	0.000007	0.17	234.75	265.38	0.03
71849	9297.654	tr 200	19.21	30.47	33.68	32.19	33.68	0.000002	0.11	374.47	305.08	0.02
71849	9297.654	tr 500	22.45	30.47	33.74	32.22	33.74	0.000003	0.12	393.14	311.02	0.02
71849	9267.654	tr 50	14.37	30.45	32.73	32.05	32.73	0.000023	0.26	145.40	254.60	0.06
71849	9267.654	tr 100	16.79	30.45	33.19	32.19	33.19	0.000005	0.14	268.15	281.97	0.03
71849	9267.654	tr 200	19.21	30.45	33.68	32.20	33.68	0.000002	0.10	411.50	307.94	0.02
71849	9267.654	tr 500	22.45	30.45	33.74	32.23	33.74	0.000002	0.11	430.29	312.26	0.02
71849	9237.654	tr 50	14.37	30.39	32.73	32.19	32.73	0.000020	0.24	163.50	258.14	0.05
71849	9237.654	tr 100	16.79	30.39	33.19	33.19	33.19	0.000005	0.13	286.04	278.95	0.03
71849	9237.654	tr 200	19.21	30.39	33.68	33.68	33.68	0.000002	0.09	427.55	302.41	0.02
71849	9237.654	tr 500	22.45	30.39	33.74	33.74	33.74	0.000002	0.10	445.95	305.14	0.02
71849	9207.654	tr 50	14.37	30.30	32.73	32.19	32.73	0.000011	0.19	193.24	248.70	0.04
71849	9207.654	tr 100	16.79	30.30	33.19	33.19	33.19	0.000004	0.12	314.31	277.18	0.02
71849	9207.654	tr 200	19.21	30.30	33.68	33.68	33.68	0.000002	0.09	454.28	298.56	0.02
71849	9207.654	tr 500	22.45	30.30	33.74	33.74	33.74	0.000002	0.10	472.47	301.71	0.02
71849	9177.654	tr 50	14.37	30.13	32.73	32.19	32.73	0.000005	0.14	252.50	260.73	0.03
71849	9177.654	tr 100	16.79	30.13	33.19	33.19	33.19	0.000002	0.10	378.44	295.80	0.02
71849	9177.654	tr 200	19.21	30.13	33.68	33.68	33.68	0.000001	0.08	553.78	421.87	0.01
71849	9177.654	tr 500	22.45	30.13	33.74	33.74	33.74	0.000001	0.09	579.72	435.54	0.02
71849	9147.654	tr 50	14.37	29.95	32.73	32.19	32.73	0.000004	0.12	292.68	287.69	0.02
71849	9147.654	tr 100	16.79	29.95	33.19	33.19	33.19	0.000002	0.09	445.68	431.77	0.02
71849	9147.654	tr 200	19.21	29.95	33.68	33.68	33.68	0.000001	0.07	676.11	489.53	0.01
71849	9147.654	tr 500	22.45	29.95	33.74	33.74	33.74	0.000001	0.08	705.89	494.59	0.01
71849	9117.654	tr 50	14.37	29.82	32.73	32.19	32.73	0.000003	0.12	332.51	407.42	0.02
71849	9117.654	tr 100	16.79	29.82	33.19	33.19	33.19	0.000001	0.08	530.42	463.21	0.01
71849	9117.654	tr 200	19.21	29.82	33.68	33.68	33.68	0.000001	0.06	771.11	530.27	0.01
71849	9117.654	tr 500	22.45	29.82	33.74	33.74	33.74	0.000001	0.07	804.76	567.19	0.01
71849	9087.654	tr 50	14.37	29.70	32.73	32.19	32.73	0.000003	0.12	294.03	325.92	0.02
71849	9087.654	tr 100	16.79	29.70	33.19	33.19	33.19	0.000001	0.09	459.14	386.76	0.02
71849	9087.654	tr 200	19.21	29.70	33.68	33.68	33.68	0.000001	0.07	664.94	461.87	0.01
71849	9087.654	tr 500	22.45	29.70	33.74	33.74	33.74	0.000001	0.07	692.91	461.87	0.01
71849	9057.654	tr 50	14.37	29.58	32.73	32.19	32.73	0.000003	0.12	278.59	222.78	0.02
71849	9057.654	tr 100	16.79	29.58	33.19	33.19	33.19	0.000001	0.09	383.11	236.76	0.02
71849	9057.654	tr 200	19.21	29.58	33.68	33.68	33.68	0.000001	0.07	498.43	236.76	0.01
71849	9057.654	tr 500	22.45	29.58	33.74	33.74	33.74	0.000001	0.08	512.77	236.76	0.01
71849	9027.654	tr 50	14.37	29.48	32.73	32.19	32.73	0.000002	0.11	272.40	187.14	0.02
71849	9027.654	tr 100	16.79	29.48	33.19	33.19	33.19	0.000001	0.09	360.74	197.03	0.02
71849	9027.654	tr 200	19.21	29.48	33.68	33.68	33.68	0.000001	0.08	456.71	197.03	0.01
71849	9027.654	tr 500	22.45	29.48	33.74	33.74	33.74	0.000001	0.09	468.64	197.03	0.01
71849	8997.654	tr 50	14.37	29.39	32.73	32.19	32.73	0.000002	0.10	309.40	193.33	0.02
71849	8997.654	tr 100	16.79	29.39	33.19	33.19	33.19	0.000001	0.08	399.23	197.37	0.01
71849	8997.654	tr 200	19.21	29.39	33.68	33.68	33.68	0.000001	0.07	495.37	197.37	0.01
71849	8997.654	tr 500	22.45	29.39	33.74	33.74	33.74	0.000001	0.08	507.32	197.37	0.01
71849	8967.654	tr 50	14.37	29.29	32.73	32.19	32.73	0.000001	0.09	332.48	205.32	0.02

HEC-RAS Plan: Plan 04 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
71849	8967.654	tr 100	16.79	29.29	33.19		33.19	0.000001	0.08	427.49	208.44	0.01
71849	8967.654	tr 200	19.21	29.29	33.68		33.68	0.000001	0.07	529.02	208.44	0.01
71849	8967.654	tr 500	22.45	29.29	33.74		33.74	0.000001	0.08	541.64	208.44	0.01
71849	8937.654	tr 50	14.37	29.22	32.73		32.73	0.000001	0.09	361.05	227.69	0.02
71849	8937.654	tr 100	16.79	29.22	33.19		33.19	0.000001	0.07	466.25	230.80	0.01
71849	8937.654	tr 200	19.21	29.22	33.68		33.68	0.000001	0.07	578.68	230.80	0.01
71849	8937.654	tr 500	22.45	29.22	33.74		33.74	0.000001	0.07	592.65	230.80	0.01
Asta 1	8847.654	tr 50	41.52	29.20	32.73	30.61	32.73	0.000002	0.12	733.80	399.52	0.02
Asta 1	8847.654	tr 100	49.05	29.20	33.19	30.67	33.19	0.000002	0.11	919.18	412.64	0.02
Asta 1	8847.654	tr 200	56.63	29.20	33.68	30.72	33.68	0.000001	0.11	1123.99	436.44	0.02
Asta 1	8847.654	tr 500	66.73	29.20	33.74	30.77	33.74	0.000002	0.13	1150.93	459.38	0.02
Asta 1	8817.654	tr 50	41.52	29.19	32.73		32.73	0.000001	0.10	963.32	625.63	0.02
Asta 1	8817.654	tr 100	49.05	29.19	33.19		33.19	0.000001	0.09	1266.50	717.04	0.01
Asta 1	8817.654	tr 200	56.63	29.19	33.68		33.68	0.000001	0.08	1654.23	883.62	0.01
Asta 1	8817.654	tr 500	66.73	29.19	33.74		33.74	0.000001	0.09	1708.30	909.22	0.01
Asta 1	8800.361	tr 50	41.52	29.18	32.73	30.46	32.73	0.000001	0.10	970.16	635.99	0.02
Asta 1	8800.361	tr 100	49.05	29.18	33.19	30.49	33.19	0.000001	0.08	1278.29	718.93	0.01
Asta 1	8800.361	tr 200	56.63	29.18	33.68	30.52	33.68	0.000001	0.07	1655.80	803.75	0.01
Asta 1	8800.361	tr 500	66.73	29.18	33.74	30.55	33.74	0.000001	0.09	1704.50	805.74	0.01
Asta 1	8781.394	tr 50	41.52	29.16	32.73	30.57	32.73	0.000001	0.10	971.59	625.54	0.02
Asta 1	8781.394	tr 100	49.05	29.16	33.19	30.60	33.19	0.000001	0.09	1263.04	654.07	0.01
Asta 1	8781.394	tr 200	56.63	29.16	33.68	30.62	33.68	0.000001	0.07	1768.23	972.26	0.01
Asta 1	8781.394	tr 500	66.73	29.16	33.74	30.66	33.74	0.000001	0.08	1827.24	978.22	0.01
Asta 1	8757.654	tr 50	41.52	29.11	32.73	30.60	32.73	0.000001	0.10	976.78	636.43	0.02
Asta 1	8757.654	tr 100	49.05	29.11	33.19	30.63	33.19	0.000001	0.08	1392.53	925.11	0.01
Asta 1	8757.654	tr 200	56.63	29.11	33.68	30.66	33.68	0.000000	0.07	1865.70	1001.91	0.01
Asta 1	8757.654	tr 500	66.73	29.11	33.74	30.70	33.74	0.000001	0.08	1926.57	1013.39	0.01
Asta 1	8727.654	tr 50	41.52	29.06	32.73	30.70	32.73	0.000001	0.10	987.50	650.79	0.02
Asta 1	8727.654	tr 100	49.05	29.06	33.19	30.73	33.19	0.000001	0.08	1417.01	877.27	0.01
Asta 1	8727.654	tr 200	56.63	29.06	33.68	30.75	33.68	0.000000	0.07	1862.72	995.92	0.01
Asta 1	8727.654	tr 500	66.73	29.06	33.74	30.77	33.74	0.000001	0.08	1924.16	1024.84	0.01
Asta 1	8697.654	tr 50	41.52	29.01	32.73		32.73	0.000001	0.09	1142.36	791.99	0.02
Asta 1	8697.654	tr 100	49.05	29.01	33.19		33.19	0.000001	0.08	1519.63	861.44	0.01
Asta 1	8697.654	tr 200	56.63	29.01	33.68		33.68	0.000000	0.07	1955.46	929.90	0.01
Asta 1	8697.654	tr 500	66.73	29.01	33.74		33.74	0.000001	0.08	2014.04	987.61	0.01
Asta 1	8667.654	tr 50	41.52	28.95	32.73	30.61	32.73	0.000001	0.10	1148.47	888.96	0.02
Asta 1	8667.654	tr 100	49.05	28.95	33.19	30.64	33.19	0.000001	0.08	1559.58	910.62	0.01
Asta 1	8667.654	tr 200	56.63	28.95	33.68	30.66	33.68	0.000000	0.07	2041.68	1021.99	0.01
Asta 1	8667.654	tr 500	66.73	28.95	33.74	30.68	33.74	0.000001	0.08	2103.71	1028.15	0.01
Asta 1	8637.654	tr 50	41.52	28.90	32.73	30.63	32.73	0.000001	0.10	1173.18	989.60	0.02
Asta 1	8637.654	tr 100	49.05	28.90	33.19	30.68	33.19	0.000001	0.08	1637.09	1028.76	0.01
Asta 1	8637.654	tr 200	56.63	28.90	33.67	30.71	33.68	0.000000	0.06	2144.41	1059.47	0.01
Asta 1	8637.654	tr 500	66.73	28.90	33.74	30.74	33.74	0.000000	0.07	2208.97	1076.42	0.01
Asta 1	8607.654	tr 50	41.52	28.83	32.73	30.71	32.73	0.000001	0.09	1177.53	876.41	0.02
Asta 1	8607.654	tr 100	49.05	28.83	33.19	30.74	33.19	0.000001	0.08	1598.88	997.38	0.01
Asta 1	8607.654	tr 200	56.63	28.83	33.67	30.76	33.68	0.000000	0.07	2109.47	1089.93	0.01
Asta 1	8607.654	tr 500	66.73	28.83	33.74	30.78	33.74	0.000001	0.08	2175.51	1093.94	0.01
Asta 1	8577.654	tr 50	41.52	28.80	32.73	30.64	32.73	0.000001	0.08	1284.69	893.70	0.01
Asta 1	8577.654	tr 100	49.05	28.80	33.19	30.65	33.19	0.000001	0.07	1708.24	989.79	0.01
Asta 1	8577.654	tr 200	56.63	28.80	33.67	30.67	33.68	0.000000	0.06	2232.59	1130.47	0.01
Asta 1	8577.654	tr 500	66.73	28.80	33.74	30.71	33.74	0.000000	0.07	2301.06	1133.64	0.01
Asta 1	8558.979	tr 50	41.52	28.76	32.73	30.57	32.73	0.000001	0.07	1353.34	905.16	0.01
Asta 1	8558.979	tr 100	49.05	28.76	33.19	30.60	33.19	0.000000	0.06	1783.27	998.41	0.01
Asta 1	8558.979	tr 200	56.63	28.76	33.67	30.62	33.68	0.000000	0.06	2317.74	1163.83	0.01
Asta 1	8558.979	tr 500	66.73	28.76	33.74	30.64	33.74	0.000000	0.06	2388.24	1167.88	0.01
Asta 1	8517.654	tr 50	41.52	28.75	32.73	30.57	32.73	0.000001	0.07	1434.88	883.99	0.01
Asta 1	8517.654	tr 100	49.05	28.75	33.19	30.60	33.19	0.000000	0.06	1882.11	1053.01	0.01
Asta 1	8517.654	tr 200	56.63	28.75	33.67	30.62	33.67	0.000000	0.05	2561.11	1299.27	0.01
Asta 1	8517.654	tr 500	66.73	28.75	33.74	30.64	33.74	0.000000	0.06	2639.70	1299.47	0.01
Asta 1	8487.654	tr 50	41.52	28.74	32.73	30.63	32.73	0.000001	0.07	1480.03	890.66	0.01
Asta 1	8487.654	tr 100	49.05	28.74	33.19	30.65	33.19	0.000000	0.06	2060.47	1277.18	0.01
Asta 1	8487.654	tr 200	56.63	28.74	33.67	30.66	33.67	0.000000	0.05	2702.58	1330.37	0.01
Asta 1	8487.654	tr 500	66.73	28.74	33.74	30.68	33.74	0.000000	0.06	2783.06	1331.22	0.01
Asta 1	8457.654	tr 50	41.52	28.73	32.73	30.53	32.73	0.000000	0.06	1543.31	908.26	0.01
Asta 1	8457.654	tr 100	49.05	28.73	33.19	30.55	33.19	0.000000	0.05	2137.50	1323.88	0.01
Asta 1	8457.654	tr 200	56.63	28.73	33.67	30.57	33.67	0.000000	0.05	2790.34	1349.48	0.01
Asta 1	8457.654	tr 500	66.73	28.73	33.74	30.60	33.74	0.000000	0.05	2872.00	1351.17	0.01

HEC-RAS Plan: Plan 04 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
Asta 1	8427.654	tr 50	41.52	28.67	32.73	30.51	32.73	0.000000	0.06	1606.28	922.68	0.01
Asta 1	8427.654	tr 100	49.05	28.67	33.19	30.53	33.19	0.000000	0.05	2248.47	1343.58	0.01
Asta 1	8427.654	tr 200	56.63	28.67	33.67	30.55	33.67	0.000000	0.04	2911.54	1373.31	0.01
Asta 1	8427.654	tr 500	66.73	28.67	33.74	30.58	33.74	0.000000	0.05	2994.63	1374.61	0.01
Asta 1	8397.654	tr 50	41.52	28.64	32.73	30.55	32.73	0.000000	0.06	1600.28	924.28	0.01
Asta 1	8397.654	tr 100	49.05	28.64	33.19	30.57	33.19	0.000000	0.05	2244.43	1353.92	0.01
Asta 1	8397.654	tr 200	56.63	28.64	33.67	30.59	33.67	0.000000	0.04	2914.93	1394.70	0.01
Asta 1	8397.654	tr 500	66.73	28.64	33.74	30.61	33.74	0.000000	0.05	2999.37	1397.92	0.01
Asta 1	8367.654	tr 50	41.52	28.57	32.73	30.60	32.73	0.000000	0.06	1564.49	934.43	0.01
Asta 1	8367.654	tr 100	49.05	28.57	33.19	30.63	33.19	0.000000	0.05	2211.77	1321.45	0.01
Asta 1	8367.654	tr 200	56.63	28.57	33.67	30.65	33.67	0.000000	0.04	2889.10	1407.99	0.01
Asta 1	8367.654	tr 500	66.73	28.57	33.74	30.67	33.74	0.000000	0.05	2974.31	1409.81	0.01
Asta 1	8337.654	tr 50	41.52	28.54	32.73	30.51	32.73	0.000000	0.06	1656.40	1042.65	0.01
Asta 1	8337.654	tr 100	49.05	28.54	33.19	30.53	33.19	0.000000	0.05	2144.27	1093.68	0.01
Asta 1	8337.654	tr 200	56.63	28.54	33.67	30.55	33.67	0.000000	0.04	2969.53	1427.26	0.01
Asta 1	8337.654	tr 500	66.73	28.54	33.74	30.57	33.74	0.000000	0.05	3055.88	1428.27	0.01
Asta 1	8307.654	tr 50	78.40	28.52	32.73	30.51	32.73	0.000001	0.10	1675.72	1045.48	0.02
Asta 1	8307.654	tr 100	92.27	28.52	33.19	30.53	33.19	0.000001	0.09	2167.70	1105.93	0.01
Asta 1	8307.654	tr 200	106.25	28.52	33.67	30.55	33.67	0.000000	0.08	3002.82	1445.16	0.01
Asta 1	8307.654	tr 500	125.01	28.52	33.74	30.58	33.74	0.000001	0.09	3090.24	1446.88	0.01
Asta 1	8277.654	tr 50	78.40	28.50	32.73	30.49	32.73	0.000001	0.10	1670.31	1033.47	0.02
Asta 1	8277.654	tr 100	92.27	28.50	33.19	30.51	33.19	0.000001	0.09	2304.37	1457.80	0.01
Asta 1	8277.654	tr 200	106.25	28.50	33.67	30.54	33.67	0.000000	0.08	3016.90	1466.80	0.01
Asta 1	8277.654	tr 500	125.01	28.50	33.74	30.57	33.74	0.000001	0.09	3105.59	1467.66	0.01
Asta 1	8247.654	tr 50	78.40	28.45	32.73	30.49	32.73	0.000001	0.10	1754.53	1022.02	0.02
Asta 1	8247.654	tr 100	92.27	28.45	33.19	30.52	33.19	0.000001	0.09	2388.64	1448.42	0.01
Asta 1	8247.654	tr 200	106.25	28.45	33.67	30.54	33.67	0.000000	0.08	3110.87	1489.76	0.01
Asta 1	8247.654	tr 500	125.01	28.45	33.74	30.59	33.74	0.000001	0.09	3200.95	1490.74	0.01
Asta 1	8217.654	tr 50	78.40	28.41	32.73	30.48	32.73	0.000001	0.10	1705.41	862.90	0.02
Asta 1	8217.654	tr 100	92.27	28.41	33.19	30.51	33.19	0.000001	0.09	2371.47	1444.31	0.01
Asta 1	8217.654	tr 200	106.25	28.41	33.67	30.53	33.67	0.000000	0.08	3092.83	1497.63	0.01
Asta 1	8217.654	tr 500	125.01	28.41	33.74	30.56	33.74	0.000001	0.09	3183.38	1498.70	0.01
Asta 1	8187.654	tr 50	78.40	28.37	32.73	30.52	32.73	0.000001	0.11	1661.97	849.38	0.02
Asta 1	8187.654	tr 100	92.27	28.37	33.19	30.55	33.19	0.000001	0.10	2062.69	905.42	0.02
Asta 1	8187.654	tr 200	106.25	28.37	33.67	30.57	33.67	0.000001	0.09	3072.91	1505.16	0.01
Asta 1	8187.654	tr 500	125.01	28.37	33.74	30.61	33.74	0.000001	0.10	3163.93	1506.84	0.01
Asta 1	8157.654	tr 50	78.40	28.33	32.73	30.52	32.73	0.000001	0.11	1736.63	866.83	0.02
Asta 1	8157.654	tr 100	92.27	28.33	33.19	30.54	33.19	0.000001	0.10	2142.66	915.38	0.01
Asta 1	8157.654	tr 200	106.25	28.33	33.67	30.56	33.67	0.000001	0.08	3128.77	1526.31	0.01
Asta 1	8157.654	tr 500	125.01	28.33	33.74	30.58	33.74	0.000001	0.09	3221.06	1528.07	0.01
Asta 1	8127.653	tr 50	78.40	28.33	32.73	30.54	32.73	0.000001	0.11	1751.90	867.12	0.02
Asta 1	8127.653	tr 100	92.27	28.33	33.19	30.56	33.19	0.000001	0.10	2157.41	912.25	0.01
Asta 1	8127.653	tr 200	106.25	28.33	33.67	30.58	33.67	0.000001	0.08	3139.44	1531.08	0.01
Asta 1	8127.653	tr 500	125.01	28.33	33.74	30.61	33.74	0.000001	0.09	3232.00	1532.47	0.01
Asta 1	8097.653	tr 50	78.40	28.31	32.73	30.55	32.73	0.000001	0.11	1691.31	858.67	0.02
Asta 1	8097.653	tr 100	92.27	28.31	33.19	30.57	33.19	0.000001	0.10	2093.30	901.27	0.02
Asta 1	8097.653	tr 200	106.25	28.31	33.67	30.59	33.67	0.000001	0.09	3048.16	1534.28	0.01
Asta 1	8097.653	tr 500	125.01	28.31	33.74	30.62	33.74	0.000001	0.10	3140.91	1536.03	0.01
Asta 1	8067.653	tr 50	78.40	28.30	32.73	30.58	32.73	0.000001	0.11	1688.41	817.54	0.02
Asta 1	8067.653	tr 100	92.27	28.30	33.19	30.58	33.19	0.000001	0.10	2078.80	892.05	0.02
Asta 1	8067.653	tr 200	106.25	28.30	33.67	30.58	33.67	0.000001	0.09	3024.50	1536.13	0.01
Asta 1	8067.653	tr 500	125.01	28.30	33.74	30.60	33.74	0.000001	0.10	3117.37	1537.90	0.01
Asta 1	8037.654	tr 50	78.40	28.29	32.73	31.26	32.73	0.000001	0.08	1668.87	830.82	0.01
Asta 1	8037.654	tr 100	92.27	28.29	33.19	31.26	33.19	0.000001	0.08	2054.36	856.58	0.01
Asta 1	8037.654	tr 200	106.25	28.29	33.67	31.26	33.67	0.000001	0.07	2991.54	1539.78	0.01
Asta 1	8037.654	tr 500	125.01	28.29	33.74	31.26	33.74	0.000001	0.08	3084.61	1541.58	0.01
Asta 1	8007.653	tr 50	78.40	28.26	32.73	31.71	32.73	0.000001	0.12	1603.59	824.64	0.02
Asta 1	8007.653	tr 100	92.27	28.26	33.19	31.95	33.19	0.000001	0.11	1986.38	848.24	0.02
Asta 1	8007.653	tr 200	106.25	28.26	33.67	32.25	33.67	0.000001	0.10	2405.38	877.78	0.01
Asta 1	8007.653	tr 500	125.01	28.26	33.74	32.25	33.74	0.000001	0.11	2458.64	885.17	0.02
Asta 1	7977.654	tr 50	78.40	28.24	32.49	31.07	32.71	0.000549	2.24	46.09	23.14	0.39
Asta 1	7977.654	tr 100	92.27	28.24	33.19	31.31	33.19	0.000001	0.11	1961.19	840.93	0.02
Asta 1	7977.654	tr 200	106.25	28.24	33.67	31.52	33.67	0.000001	0.10	2375.00	857.17	0.02
Asta 1	7977.654	tr 500	125.01	28.24	33.74	31.79	33.74	0.000001	0.12	2426.82	859.22	0.02
Asta 1	7947.654	tr 50	78.40	28.22	32.38	31.06	32.68	0.000722	2.51	37.37	21.47	0.45
Asta 1	7947.654	tr 100	92.27	28.22	32.89	31.32	33.16	0.000561	2.44	51.76	34.15	0.40

HEC-RAS Plan: Plan 04 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
Asta 1	7947.654	tr 200	106.25	28.22	33.67	31.55	33.67	0.000001	0.10	2355.92	881.56	0.02
Asta 1	7947.654	tr 500	125.01	28.22	33.74	31.84	33.74	0.000001	0.12	2409.21	883.78	0.02
Asta 1	7917.654	tr 50	78.40	28.20	32.37	31.03	32.66	0.000720	2.53	40.58	33.21	0.45
Asta 1	7917.654	tr 100	92.27	28.20	32.90	31.28	33.13	0.000502	2.34	63.89	50.73	0.39
Asta 1	7917.654	tr 200	106.25	28.20	33.67	31.52	33.67	0.000001	0.11	2336.28	904.40	0.02
Asta 1	7917.654	tr 500	125.01	28.20	33.73	31.79	33.74	0.000001	0.12	2390.95	906.79	0.02
Asta 1	7887.653	tr 50	78.40	28.18	32.44	30.57	32.59	0.000769	1.83	53.30	47.98	0.32
Asta 1	7887.653	tr 100	92.27	28.18	32.97	30.79	33.08	0.000491	1.61	82.44	60.94	0.26
Asta 1	7887.653	tr 200	106.25	28.18	33.60	31.01	33.67	0.000275	1.33	127.47	82.07	0.20
Asta 1	7887.653	tr 500	125.01	28.18	33.64	31.29	33.73	0.000369	1.55	130.46	86.05	0.23
Asta 1	7857.653	tr 50	78.40	28.16	32.46	30.78	32.56	0.000470	2.24	81.30	56.61	0.37
Asta 1	7857.653	tr 100	92.27	28.16	32.99	31.36	33.06	0.000292	1.93	113.47	64.21	0.30
Asta 1	7857.653	tr 200	106.25	28.16	33.61	31.62	33.66	0.000176	1.64	156.81	75.47	0.24
Asta 1	7857.653	tr 500	125.01	28.16	33.65	31.82	33.71	0.000233	1.90	159.81	76.37	0.27
Asta 1	7827.654	tr 50	78.40	28.00	32.31	30.62	32.53	0.001038	2.14	42.84	29.34	0.36
Asta 1	7827.654	tr 100	92.27	28.00	32.87	30.86	33.03	0.000727	1.97	70.43	70.56	0.31
Asta 1	7827.654	tr 200	106.25	28.00	33.58	31.08	33.65	0.000303	1.41	131.25	92.51	0.20
Asta 1	7827.654	tr 500	125.01	28.00	33.61	31.36	33.70	0.000400	1.63	133.98	93.10	0.23
Asta 1	7790.695	tr 50	78.40	27.97	32.29	30.55	32.48	0.001016	1.92	42.86	24.37	0.35
Asta 1	7790.695	tr 100	92.27	27.97	32.85	30.78	33.00	0.000724	1.81	60.96	41.40	0.30
Asta 1	7790.695	tr 200	106.25	27.97	33.62	31.00	33.62	0.000057	0.58	503.83	700.86	0.09
Asta 1	7790.695	tr 500	125.01	27.97	33.66	31.27	33.67	0.000074	0.67	533.67	727.50	0.10
Asta 1	7745.885	tr 50	78.40	28.09	32.17	30.50	32.41	0.001824	2.25	37.83	16.79	0.38
Asta 1	7745.885	tr 100	92.27	28.09	32.78	30.75	32.96	0.001190	2.02	61.03	50.79	0.31
Asta 1	7745.885	tr 200	106.25	28.09	33.53	30.99	33.61	0.000527	1.50	106.67	71.90	0.22
Asta 1	7745.885	tr 500	125.01	28.09	33.54	31.28	33.65	0.000721	1.75	107.30	72.17	0.25
Asta 1	7736.391		Culvert									
Asta 1	7726.396	tr 50	78.40	28.00	31.31	30.42	31.71	0.003801	2.78	28.23	12.21	0.57
Asta 1	7726.396	tr 100	92.27	28.00	31.60	30.67	32.04	0.003631	2.91	31.90	13.08	0.57
Asta 1	7726.396	tr 200	106.25	28.00	31.84	30.89	32.32	0.003628	3.07	35.03	14.01	0.58
Asta 1	7726.396	tr 500	125.01	28.00	32.11	31.17	32.65	0.003647	3.28	40.01	26.87	0.59
Asta 1	7677.654	tr 50	81.09	27.74	31.22	30.22	31.55	0.002334	2.52	32.14	13.75	0.53
Asta 1	7677.654	tr 100	97.29	27.74	31.51	30.47	31.88	0.002328	2.69	36.23	14.72	0.54
Asta 1	7677.654	tr 200	113.72	27.74	31.73	30.71	32.16	0.002431	2.89	39.62	15.60	0.56
Asta 1	7677.654	tr 500	135.68	27.74	32.01	31.00	32.49	0.002462	3.09	47.09	33.87	0.57
Asta 1	7647.654	tr 50	81.09	27.69	31.02	30.27	31.47	0.001782	2.99	28.02	12.93	0.59
Asta 1	7647.654	tr 100	97.29	27.69	31.26	30.51	31.80	0.001883	3.27	31.26	13.65	0.62
Asta 1	7647.654	tr 200	113.72	27.69	31.41	30.76	32.07	0.002154	3.61	33.33	14.14	0.67
Asta 1	7647.654	tr 500	135.68	27.69	31.50	31.06	32.37	0.002781	4.18	34.55	14.44	0.76
Asta 1	7617.654	tr 50	81.09	27.64	30.83	30.30	31.41	0.001716	3.36	24.22	11.16	0.71
Asta 1	7617.654	tr 100	97.29	27.64	31.06	30.57	31.73	0.001816	3.63	28.70	25.58	0.74
Asta 1	7617.654	tr 200	113.72	27.64	31.14	30.83	31.98	0.002250	4.10	30.66	28.54	0.82
Asta 1	7617.654	tr 500	135.68	27.64	31.44	31.44	32.30	0.002061	4.20	40.80	38.41	0.80
Asta 1	7587.654	tr 50	81.09	27.55	31.22	30.10	31.23	0.000062	0.70	281.70	200.57	0.13
Asta 1	7587.654	tr 100	97.29	27.55	31.52	30.26	31.53	0.000050	0.66	342.62	210.24	0.12
Asta 1	7587.654	tr 200	113.72	27.55	31.72	30.32	31.73	0.000048	0.68	385.36	221.52	0.12
Asta 1	7587.654	tr 500	135.68	27.55	31.92	30.39	31.92	0.000050	0.72	430.21	235.69	0.12
Asta 1	7557.654	tr 50	81.09	27.46	31.10	30.28	31.22	0.000351	1.87	99.19	103.24	0.34
Asta 1	7557.654	tr 100	97.29	27.46	31.42	30.44	31.52	0.000300	1.84	137.69	143.17	0.32
Asta 1	7557.654	tr 200	113.72	27.46	31.62	30.58	31.71	0.000277	1.84	168.94	159.98	0.31
Asta 1	7557.654	tr 500	135.68	27.46	31.82	30.75	31.91	0.000272	1.89	202.95	176.73	0.31
Asta 1	7527.653	tr 50	81.09	27.43	31.00	30.33	31.19	0.000579	2.76	63.21	70.10	0.47
Asta 1	7527.653	tr 100	97.29	27.43	31.35	30.60	31.50	0.000452	2.60	90.98	89.09	0.42
Asta 1	7527.653	tr 200	113.72	27.43	31.55	30.78	31.70	0.000439	2.65	110.79	104.22	0.42
Asta 1	7527.653	tr 500	135.68	27.43	31.75	30.99	31.90	0.000453	2.77	132.45	118.32	0.43
Asta 1	7497.653	tr 50	81.09	27.41	30.79	30.21	31.16	0.000937	2.86	43.32	41.82	0.55
Asta 1	7497.653	tr 100	97.29	27.41	31.13	30.50	31.46	0.000797	2.84	59.48	55.80	0.51
Asta 1	7497.653	tr 200	113.72	27.41	31.29	30.77	31.66	0.000842	3.03	69.39	63.70	0.53
Asta 1	7497.653	tr 500	135.68	27.41	31.39	30.99	31.85	0.001031	3.41	75.91	68.57	0.59
Asta 1	7467.654	tr 50	81.09	27.36	30.46	30.03	31.09	0.001970	3.52	23.92	22.03	0.75
Asta 1	7467.654	tr 100	97.29	27.36	30.60	30.31	31.38	0.002276	3.94	27.93	37.71	0.82
Asta 1	7467.654	tr 200	113.72	27.36	30.98	30.98	31.60	0.001603	3.65	48.43	70.62	0.70
Asta 1	7467.654	tr 500	135.68	27.36	31.27	31.27	31.80	0.001338	3.56	73.26	102.26	0.65
Asta 1	7437.654	tr 50	81.09	27.14	30.31	29.94	31.03	0.001637	3.91	24.95	36.18	0.73
Asta 1	7437.654	tr 100	97.29	27.14	30.75	30.75	31.25	0.001110	3.53	52.65	88.48	0.62
Asta 1	7437.654	tr 200	113.72	27.14	30.59	30.93	31.52	0.002031	4.62	40.15	70.84	0.83

HEC-RAS Plan: Plan 04 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
Asta 1	7437.654	tr 500	135.68	27.14	30.76	31.13	31.71	0.002082	4.85	54.30	90.51	0.84
Asta 1	7407.654	tr 50	81.09	26.97	30.57	30.27	30.87	0.000730	2.82	61.62	107.84	0.50
Asta 1	7407.654	tr 100	97.29	26.97	30.90	30.57	31.09	0.000502	2.49	103.56	144.81	0.42
Asta 1	7407.654	tr 200	113.72	26.97	30.21	30.72	31.41	0.002924	5.23	31.73	58.26	0.97
Asta 1	7407.654	tr 500	135.68	26.97	30.40	30.87	31.61	0.002930	5.45	44.95	84.08	0.98
Asta 1	7377.654	tr 50	81.09	26.91	30.56	30.41	30.84	0.000741	3.06	65.14	130.56	0.51
Asta 1	7377.654	tr 100	97.29	26.91	30.92	30.60	31.07	0.000439	2.51	122.71	183.64	0.40
Asta 1	7377.654	tr 200	113.72	26.91	30.41	30.72	31.23	0.002013	4.90	48.16	106.79	0.84
Asta 1	7377.654	tr 500	135.68	26.91	30.48	30.85	31.46	0.002481	5.51	55.48	117.79	0.94
Asta 1	7347.654	tr 50	81.09	26.84	30.60	29.70	30.79	0.000679	2.40	82.10	172.77	0.44
Asta 1	7347.654	tr 100	97.29	26.84	30.95	30.54	31.04	0.000353	1.86	189.30	403.53	0.32
Asta 1	7347.654	tr 200	113.72	26.84	30.69	30.64	30.98	0.001063	3.06	98.29	205.62	0.55
Asta 1	7347.654	tr 500	135.68	26.84	30.38	30.90	31.37	0.003369	5.08	48.90	120.56	0.97
Asta 1	7317.654	tr 50	81.09	26.76	30.61	29.59	30.76	0.000522	2.03	112.29	270.68	0.38
Asta 1	7317.654	tr 100	97.29	26.76	30.97	29.90	31.02	0.000217	1.41	220.39	341.51	0.25
Asta 1	7317.654	tr 200	113.72	26.76	30.76	30.67	30.92	0.000593	2.23	155.45	298.94	0.41
Asta 1	7317.654	tr 500	135.68	26.76	30.89	30.73	31.02	0.000539	2.19	195.81	326.00	0.40
Asta 1	7287.654	tr 50	81.09	26.74	30.18	29.56	30.70	0.001624	3.23	32.37	110.40	0.66
Asta 1	7287.654	tr 100	97.29	26.74	30.09	29.89	30.92	0.002694	4.06	26.43	31.99	0.85
Asta 1	7287.654	tr 200	113.72	26.74	30.59	30.59	30.88	0.000997	2.81	107.61	221.43	0.53
Asta 1	7287.654	tr 500	135.68	26.74	30.68	30.68	30.98	0.001079	2.99	128.03	236.72	0.56
Asta 1	7257.654	tr 50	81.09	26.70	30.24	29.54	30.62	0.001107	2.89	54.88	173.83	0.57
Asta 1	7257.654	tr 100	97.29	26.70	30.43	30.43	30.72	0.000882	2.71	92.34	211.82	0.52
Asta 1	7257.654	tr 200	113.72	26.70	30.40	30.53	30.83	0.001342	3.32	85.01	203.84	0.64
Asta 1	7257.654	tr 500	135.68	26.70	30.50	30.61	30.93	0.001406	3.47	106.22	224.38	0.66
Asta 1	7227.654	tr 50	81.09	26.57	30.40	29.43	30.52	0.000423	1.89	125.63	237.73	0.36
Asta 1	7227.654	tr 100	97.29	26.57	30.04	30.29	30.65	0.001860	3.63	50.41	144.86	0.73
Asta 1	7227.654	tr 200	113.72	26.57	30.14	30.36	30.77	0.001960	3.82	67.75	200.04	0.76
Asta 1	7227.654	tr 500	135.68	26.57	30.24	30.44	30.86	0.002039	4.00	88.01	216.29	0.78
Asta 1	7197.654	tr 50	81.09	26.50	29.64	29.34	30.43	0.002025	4.03	26.00	68.92	0.78
Asta 1	7197.654	tr 100	97.29	26.50	29.87	30.17	30.58	0.001827	4.03	48.19	135.44	0.75
Asta 1	7197.654	tr 200	113.72	26.50	29.98	30.24	30.70	0.001903	4.22	64.72	174.68	0.77
Asta 1	7197.654	tr 500	135.68	26.50	30.09	30.34	30.80	0.001952	4.38	86.48	205.85	0.79
Asta 1	7167.653	tr 50	81.09	26.45	29.93	29.93	30.25	0.000914	2.87	71.54	174.65	0.53
Asta 1	7167.653	tr 100	97.29	26.45	29.76	30.05	30.52	0.002081	4.17	44.67	130.61	0.78
Asta 1	7167.653	tr 200	113.72	26.45	29.87	30.15	30.64	0.002149	4.35	60.62	159.70	0.80
Asta 1	7167.653	tr 500	135.68	26.45	29.99	30.26	30.73	0.002159	4.48	82.71	190.12	0.81
Asta 1	7106.07	tr 50	81.09	26.30	28.96	29.33	30.11	0.005588	4.75	17.07	21.51	1.70
Asta 1	7106.07	tr 100	97.29	26.30	29.04	29.42	30.36	0.006986	5.10	19.09	33.05	2.14
Asta 1	7106.07	tr 200	113.72	26.30	29.11	29.52	30.46	0.008166	5.15	22.10	43.63	2.31
Asta 1	7106.07	tr 500	135.68	26.30	29.21	29.64	30.55	0.009469	5.13	26.54	51.51	2.21
Asta 1	7001.796	tr 50	81.09	26.25	28.90	29.04	29.40	0.004501	3.14	26.24	51.19	1.33
Asta 1	7001.796	tr 100	97.29	26.25	29.00	29.14	29.51	0.004979	3.17	31.87	60.50	1.28
Asta 1	7001.796	tr 200	113.72	26.25	29.36	29.23	29.58	0.002558	2.14	60.06	94.19	0.74
Asta 1	7001.796	tr 500	135.68	26.25	29.51	29.32	29.72	0.002488	2.13	74.95	112.45	0.68
Asta 1	6885.774	tr 50	81.09	26.18	28.80	28.68	29.02	0.002758	2.10	41.70	67.47	0.75
Asta 1	6885.774	tr 100	97.29	26.18	28.93	28.77	29.15	0.002796	2.15	50.51	74.98	0.71
Asta 1	6885.774	tr 200	113.72	26.18	29.03	28.86	29.27	0.002870	2.22	58.68	81.88	0.70
Asta 1	6885.774	tr 500	135.68	26.18	29.15	28.97	29.40	0.002976	2.32	69.10	91.42	0.69
Asta 1	6759.229	tr 50	81.09	26.12	28.26	28.26	28.57	0.004718	2.52	38.42	71.86	0.89
Asta 1	6759.229	tr 100	97.29	26.12	28.35	28.35	28.68	0.004976	2.65	45.23	78.47	0.89
Asta 1	6759.229	tr 200	113.72	26.12	28.44	28.44	28.78	0.005084	2.74	52.45	85.40	0.88
Asta 1	6759.229	tr 500	135.68	26.12	28.55	28.55	28.91	0.005164	2.85	61.97	93.77	0.87
Asta 1	6643.701	tr 50	81.09	25.39	27.85	27.70	28.02	0.002214	1.99	55.22	96.80	0.65
Asta 1	6643.701	tr 100	97.29	25.39	27.96	27.79	28.14	0.002201	2.04	66.59	107.07	0.63
Asta 1	6643.701	tr 200	113.72	25.39	28.06	27.88	28.24	0.002191	2.10	77.64	115.92	0.62
Asta 1	6643.701	tr 500	135.68	25.39	28.16	27.97	28.36	0.002277	2.20	90.09	125.34	0.62
Asta 1	6538.358	tr 50	81.09	25.31	27.41	27.41	27.70	0.004104	2.57	40.98	75.68	0.88
Asta 1	6538.358	tr 100	97.29	25.31	27.50	27.50	27.81	0.004256	2.69	48.14	82.51	0.88
Asta 1	6538.358	tr 200	113.72	25.31	27.59	27.59	27.91	0.004362	2.80	55.22	88.75	0.88
Asta 1	6538.358	tr 500	135.68	25.31	27.71	27.71	28.03	0.004119	2.83	66.69	98.28	0.84
Asta 1	6435.705	tr 50	81.09	25.21	27.15	26.96	27.27	0.003243	1.60	55.44	101.12	0.59
Asta 1	6435.705	tr 100	97.29	25.21	27.23	27.03	27.37	0.003351	1.69	64.25	108.25	0.60
Asta 1	6435.705	tr 200	113.72	25.21	27.31	27.10	27.46	0.003450	1.78	72.66	114.34	0.60
Asta 1	6435.705	tr 500	135.68	25.21	27.40	27.19	27.56	0.003584	1.89	83.15	121.51	0.61
Asta 1	6243.105	tr 50	81.09	25.07	26.40	26.29	26.51	0.004940	1.82	59.26	120.11	0.90

HEC-RAS Plan: Plan 04 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
Asta 1	6243.105	tr 100	97.29	25.07	26.47	26.35	26.58	0.005007	1.85	67.78	127.39	0.85
Asta 1	6243.105	tr 200	113.72	25.07	26.53	26.40	26.66	0.005018	1.89	76.30	134.39	0.81
Asta 1	6243.105	tr 500	135.68	25.07	26.61	26.45	26.75	0.004947	1.94	87.85	145.74	0.78
Asta 1	6116.597	tr 50	81.09	24.48	25.66	25.61	25.76	0.007048	1.49	63.41	198.44	0.72
Asta 1	6116.597	tr 100	97.29	24.48	25.70	25.65	25.82	0.007450	1.59	71.73	206.99	0.73
Asta 1	6116.597	tr 200	113.72	24.48	25.74	25.69	25.87	0.007937	1.70	79.33	217.76	0.76
Asta 1	6116.597	tr 500	135.68	24.48	25.78	25.73	25.93	0.008779	1.85	87.82	228.89	0.80
Asta 1	5924.254	tr 50	81.09	23.75	25.05	24.91	25.09	0.001993	0.88	94.67	300.74	0.43
Asta 1	5924.254	tr 100	97.29	23.75	25.10	24.94	25.14	0.001926	0.91	109.00	315.80	0.42
Asta 1	5924.254	tr 200	113.72	23.75	25.14	24.97	25.19	0.001882	0.94	122.31	328.45	0.42
Asta 1	5924.254	tr 500	135.68	23.75	25.19	25.01	25.25	0.001777	0.97	140.42	344.28	0.41
Asta 1	5733.933	tr 50	81.09	22.91	24.24	24.24	24.40	0.008169	1.88	53.38	182.69	0.85
Asta 1	5733.933	tr 100	97.29	22.91	24.29	24.29	24.46	0.008422	1.98	62.36	195.22	0.86
Asta 1	5733.933	tr 200	113.72	22.91	24.33	24.33	24.52	0.008565	2.06	71.24	206.87	0.86
Asta 1	5733.933	tr 500	135.68	22.91	24.38	24.38	24.58	0.009375	2.22	79.99	217.74	0.90
Asta 2	5515.869	tr 50	136.65	22.78	24.18	23.89	24.24	0.002661	1.18	133.48	281.28	0.43
Asta 2	5515.869	tr 100	163.22	22.78	24.24	23.96	24.31	0.002788	1.27	151.08	295.06	0.44
Asta 2	5515.869	tr 200	190.10	22.78	24.29	24.02	24.37	0.002916	1.35	167.45	307.32	0.46
Asta 2	5515.869	tr 500	225.95	22.78	24.36	24.11	24.45	0.003059	1.44	188.14	322.15	0.47
Asta 2	5400.612	tr 50	136.65	22.55	23.99		24.02	0.001317	1.06	180.53	424.50	0.33
Asta 2	5400.612	tr 100	163.22	22.55	24.05		24.09	0.001287	1.08	209.26	458.39	0.33
Asta 2	5400.612	tr 200	190.10	22.55	24.11		24.15	0.001255	1.10	236.31	472.78	0.32
Asta 2	5400.612	tr 500	225.95	22.55	24.18		24.22	0.001201	1.12	271.28	487.54	0.32
Asta 2	5257.257	tr 50	136.65	22.28	23.35	23.35	23.57	0.012717	2.15	67.74	158.33	0.91
Asta 2	5257.257	tr 100	163.22	22.28	23.42	23.42	23.65	0.011677	2.21	79.58	171.86	0.88
Asta 2	5257.257	tr 200	190.10	22.28	23.48	23.48	23.72	0.011252	2.29	90.10	183.03	0.87
Asta 2	5257.257	tr 500	225.95	22.28	23.55	23.55	23.81	0.010820	2.37	103.44	195.51	0.87
Asta 3	5001.333	tr 50	185.03	22.08	23.29	23.14	23.42	0.005716	1.99	140.13	376.26	0.61
Asta 3	5001.333	tr 100	219.87	22.08	23.00	23.21	23.61	0.036877	4.10	72.99	179.59	1.47
Asta 3	5001.333	tr 200	255.00	22.08	23.06	23.32	23.68	0.035264	4.21	84.24	199.56	1.46
Asta 3	5001.333	tr 500	301.73	22.08	23.13	23.42	23.77	0.034070	4.35	98.43	222.18	1.45
Asta 3	4649.523	tr 50	185.03	21.50	22.42		22.49	0.001466	1.28	171.77	399.42	0.46
Asta 3	4649.523	tr 100	219.87	21.50	22.49	22.30	22.56	0.001380	1.31	200.31	438.27	0.45
Asta 3	4649.523	tr 200	255.00	21.50	22.55	22.35	22.63	0.001310	1.34	229.48	477.00	0.44
Asta 3	4649.523	tr 500	301.73	21.50	22.62	22.40	22.70	0.001266	1.38	265.69	514.14	0.44
Asta 3	4314.969	tr 50	185.03	20.92	21.95	21.81	22.07	0.001082	1.85	209.25	500.41	0.63
Asta 3	4314.969	tr 100	219.87	20.92	22.01	21.85	22.15	0.001096	1.95	245.68	557.12	0.64
Asta 3	4314.969	tr 200	255.00	20.92	22.08	21.92	22.22	0.001114	2.05	281.92	614.61	0.66
Asta 3	4314.969	tr 500	301.73	20.92	22.15	22.00	22.30	0.001131	2.17	326.69	659.08	0.67
Asta 3	4046.137	tr 50	185.03	20.45	21.37		21.48	0.006411	1.67	140.00	314.33	0.61
Asta 3	4046.137	tr 100	219.87	20.45	21.42		21.55	0.006620	1.78	158.25	335.55	0.63
Asta 3	4046.137	tr 200	255.00	20.45	21.48		21.61	0.006519	1.85	178.77	357.92	0.63
Asta 3	4046.137	tr 500	301.73	20.45	21.56		21.70	0.006056	1.89	208.87	395.19	0.62
Asta 3	3820.211	tr 50	185.03	20.00	21.09		21.11	0.000665	0.66	379.74	664.93	0.22
Asta 3	3820.211	tr 100	219.87	20.00	21.18		21.20	0.000589	0.67	441.88	677.00	0.21
Asta 3	3820.211	tr 200	255.00	20.00	21.27		21.29	0.000538	0.67	500.91	687.24	0.20
Asta 3	3820.211	tr 500	301.73	20.00	21.37		21.39	0.000495	0.68	573.08	699.96	0.20
Asta 3	3664.81	tr 50	185.03	17.35	21.02	19.66	21.04	0.000273	0.73	356.31	347.49	0.15
Asta 3	3664.81	tr 100	219.87	17.35	21.11	20.18	21.13	0.000312	0.80	387.14	360.44	0.17
Asta 3	3664.81	tr 200	255.00	17.35	21.19	20.27	21.22	0.000344	0.86	417.42	373.80	0.17
Asta 3	3664.81	tr 500	301.73	17.35	21.29	20.35	21.32	0.000381	0.92	455.46	392.03	0.18
Asta 3	3631.208		Bridge									
Asta 3	3604.846	tr 50	185.03	17.30	20.88	20.39	20.91	0.000870	1.07	245.41	313.53	0.26
Asta 3	3604.846	tr 100	219.87	17.30	20.97	20.47	21.01	0.000896	1.12	275.42	324.27	0.26
Asta 3	3604.846	tr 200	255.00	17.30	21.06	20.53	21.10	0.000920	1.17	304.09	335.35	0.27
Asta 3	3604.846	tr 500	301.73	17.30	21.16	20.59	21.21	0.000958	1.24	338.85	348.32	0.28
Asta 3	3495.654	tr 50	185.03	17.25	20.49	20.41	20.70	0.005911	2.31	110.81	204.18	0.66
Asta 3	3495.654	tr 100	219.87	17.25	20.60	20.51	20.80	0.005343	2.32	134.42	229.33	0.63
Asta 3	3495.654	tr 200	255.00	17.25	20.71	20.58	20.89	0.004834	2.32	160.05	267.32	0.61
Asta 3	3495.654	tr 500	301.73	17.25	20.83	20.67	21.00	0.004217	2.29	196.92	317.84	0.58
Asta 3	3201.895	tr 50	185.03	17.15	19.16	18.74	19.34	0.003677	2.09	108.44	102.56	0.52
Asta 3	3201.895	tr 100	219.87	17.15	19.29	18.85	19.49	0.003785	2.23	122.05	108.73	0.54
Asta 3	3201.895	tr 200	255.00	17.15	19.41	18.96	19.63	0.003836	2.35	135.73	114.60	0.55
Asta 3	3201.895	tr 500	301.73	17.15	19.55	19.09	19.79	0.003999	2.51	151.65	121.03	0.57
Asta 3	2930.944	tr 50	185.03	15.96	17.26	17.26	17.66	0.012203	3.04	70.54	90.38	0.90
Asta 3	2930.944	tr 100	219.87	15.96	17.37	17.37	17.80	0.011755	3.17	81.04	96.58	0.90

HEC-RAS Plan: Plan 04 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
Asta 3	2930.944	tr 200	255.00	15.96	17.47	17.47	17.93	0.011641	3.32	90.62	101.91	0.91
Asta 3	2930.944	tr 500	301.73	15.96	17.60	17.60	18.08	0.010974	3.43	104.70	108.65	0.89
Asta 3	2607.301	tr 50	185.03	9.96	11.31	11.39	11.87	0.028420	3.41	57.10	66.76	1.08
Asta 3	2607.301	tr 100	219.87	9.96	11.40	11.51	12.05	0.029533	3.68	63.26	68.39	1.12
Asta 3	2607.301	tr 200	255.00	9.96	11.49	11.63	12.22	0.029469	3.89	69.91	70.10	1.13
Asta 3	2607.301	tr 500	301.73	9.96	11.59	11.77	12.44	0.031223	4.21	76.81	72.29	1.18
Asta 4	2297.713	tr 50	193.79	9.91	12.39	11.59	12.54	0.002479	1.82	118.81	79.26	0.40
Asta 4	2297.713	tr 100	230.10	9.91	12.55	11.74	12.72	0.002610	1.96	131.53	81.28	0.41
Asta 4	2297.713	tr 200	266.70	9.91	12.69	11.89	12.88	0.002748	2.09	143.15	83.25	0.43
Asta 4	2297.713	tr 500	315.35	9.91	12.86	12.06	13.09	0.002882	2.24	158.16	85.70	0.44
Asta 4	2085.895	tr 50	193.79	9.94	11.98		12.07	0.001821	1.33	152.04	113.29	0.33
Asta 4	2085.895	tr 100	230.10	9.94	12.13		12.23	0.001904	1.44	168.45	117.62	0.35
Asta 4	2085.895	tr 200	266.70	9.94	12.25		12.36	0.002019	1.55	182.74	120.80	0.36
Asta 4	2085.895	tr 500	315.35	9.94	12.42		12.55	0.002061	1.66	203.44	123.33	0.37
Asta 4	1976.163	tr 50	193.79	10.02	11.83	11.06	11.91	0.001178	1.32	155.33	120.56	0.34
Asta 4	1976.163	tr 100	230.10	10.02	11.96	11.15	12.06	0.001230	1.42	171.92	124.32	0.35
Asta 4	1976.163	tr 200	266.70	10.02	12.07	11.25	12.19	0.001322	1.54	185.56	127.89	0.37
Asta 4	1976.163	tr 500	315.35	10.02	12.24	11.36	12.37	0.001340	1.64	207.46	134.00	0.37
Asta 4	1891.287	tr 50	193.79	9.98	11.55	11.22	11.74	0.003718	2.01	104.20	107.33	0.58
Asta 4	1891.287	tr 100	230.10	9.98	11.67	11.33	11.88	0.003712	2.13	117.42	111.42	0.58
Asta 4	1891.287	tr 200	266.70	9.98	11.73	11.43	11.99	0.004222	2.34	124.35	113.14	0.63
Asta 4	1891.287	tr 500	315.35	9.98	11.91	11.55	12.18	0.003738	2.39	145.49	117.81	0.60
Asta 4	1868.035		Bridge									
Asta 4	1840.312	tr 50	193.79	9.97	11.13	11.13	11.45	0.011795	2.81	80.49	127.72	0.97
Asta 4	1840.312	tr 100	230.10	9.97	11.21	11.21	11.57	0.011680	2.97	91.11	133.77	0.98
Asta 4	1840.312	tr 200	266.70	9.97	11.27	11.27	11.68	0.012619	3.21	98.73	139.05	1.02
Asta 4	1840.312	tr 500	315.35	9.97	11.35	11.35	11.39	0.000760	0.83	368.86	317.51	0.25
Asta 4	1783.702	tr 50	193.79	9.66	10.65	10.49	10.68	0.000589	0.58	263.99	275.23	0.21
Asta 4	1783.702	tr 100	230.10	9.66	10.79	10.49	10.82	0.000574	0.64	301.91	276.60	0.21
Asta 4	1783.702	tr 200	266.70	9.66	10.92	10.49	10.95	0.000560	0.69	337.67	277.89	0.22
Asta 4	1783.702	tr 500	315.35	9.66	11.08	10.49	11.11	0.000543	0.75	382.30	279.49	0.22
Asta 4	1638.9	tr 50	193.79	8.57	10.03	10.03	10.43	0.009730	2.88	74.08	97.62	0.91
Asta 4	1638.9	tr 100	230.10	8.57	10.14	10.14	10.57	0.009286	3.01	85.23	100.77	0.90
Asta 4	1638.9	tr 200	266.70	8.57	10.23	10.23	10.70	0.009220	3.16	94.81	102.58	0.91
Asta 4	1638.9	tr 500	315.35	8.57	10.35	10.35	10.86	0.009086	3.33	107.11	104.86	0.92
Asta 4	1471.713	tr 50	193.79	5.93	7.92	7.08	7.95	0.000711	0.96	241.15	202.24	0.24
Asta 4	1471.713	tr 100	230.10	5.93	8.06	7.16	8.10	0.000700	1.01	270.77	205.45	0.24
Asta 4	1471.713	tr 200	266.70	5.93	8.20	7.28	8.24	0.000693	1.05	298.69	208.39	0.24
Asta 4	1471.713	tr 500	315.35	5.93	8.36	7.35	8.41	0.000684	1.10	333.28	210.65	0.24
Asta 4	1362.907	tr 50	193.79	5.97	7.80		7.86	0.000921	1.10	187.36	131.81	0.27
Asta 4	1362.907	tr 100	230.10	5.97	7.94		8.01	0.000979	1.19	205.54	134.71	0.28
Asta 4	1362.907	tr 200	266.70	5.97	8.07		8.15	0.001035	1.28	222.75	138.46	0.29
Asta 4	1362.907	tr 500	315.35	5.97	8.22		8.31	0.001097	1.39	244.49	142.92	0.31
Asta 4	1224.929	tr 50	193.79	5.98	7.46	7.11	7.63	0.003556	1.86	111.20	114.98	0.54
Asta 4	1224.929	tr 100	230.10	5.98	7.57	7.21	7.76	0.003619	2.00	124.27	118.88	0.56
Asta 4	1224.929	tr 200	266.70	5.98	7.68	7.31	7.89	0.003669	2.11	136.76	121.78	0.57
Asta 4	1224.929	tr 500	315.35	5.98	7.81	7.42	8.04	0.003708	2.25	152.73	125.25	0.58
Asta 4	1195.39		Bridge									
Asta 4	1165.953	tr 50	193.79	4.27	5.73		5.83	0.002844	1.54	143.89	154.18	0.44
Asta 4	1165.953	tr 100	230.10	4.27	5.85		5.96	0.002754	1.61	163.08	157.65	0.44
Asta 4	1165.953	tr 200	266.70	4.27	5.97		6.09	0.002649	1.67	182.20	160.86	0.44
Asta 4	1165.953	tr 500	315.35	4.27	6.09		6.22	0.002726	1.79	201.54	163.39	0.45
Asta 4	1025.208	tr 50	208.61	3.12	4.57	4.57	5.04	0.012621	3.16	73.41	84.18	0.92
Asta 4	1025.208	tr 100	247.96	3.12	4.71	4.71	5.20	0.011721	3.27	85.49	90.33	0.91
Asta 4	1025.208	tr 200	287.63	3.12	4.82	4.82	5.35	0.011436	3.41	96.04	95.64	0.91
Asta 4	1025.208	tr 500	340.38	3.12	5.02	5.02	5.52	0.009481	3.39	117.34	118.31	0.84
Asta 4	777.8127	tr 50	208.61	0.82	3.98	1.90	3.99	0.000090	0.44	521.94	271.20	0.09
Asta 4	777.8127	tr 100	247.96	0.82	4.12	1.99	4.13	0.000103	0.49	560.58	276.94	0.10
Asta 4	777.8127	tr 200	287.63	0.82	4.25	2.07	4.26	0.000116	0.54	596.37	282.10	0.10
Asta 4	777.8127	tr 500	340.38	0.82	4.40	2.16	4.41	0.000132	0.60	639.26	288.53	0.11
Asta 4	615.8967	tr 50	208.61	-0.21	3.97	1.06	3.97	0.000053	0.46	532.22	229.34	0.08
Asta 4	615.8967	tr 100	247.96	-0.21	4.10	1.16	4.12	0.000065	0.52	564.37	234.78	0.08
Asta 4	615.8967	tr 200	287.63	-0.21	4.23	1.26	4.24	0.000075	0.57	594.21	239.65	0.09
Asta 4	615.8967	tr 500	340.38	-0.21	4.38	1.38	4.39	0.000090	0.64	629.96	246.12	0.10
Asta 4	469.6844	tr 50	208.61	2.04	3.79	3.37	3.94	0.002691	1.71	133.81	179.12	0.49

HEC-RAS Plan: Plan 04 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
Asta 4	469.6844	tr 100	247.96	2.04	3.92	3.47	4.07	0.002595	1.79	158.15	207.85	0.49
Asta 4	469.6844	tr 200	287.63	2.04	4.04	3.57	4.20	0.002475	1.85	184.54	238.85	0.48
Asta 4	469.6844	tr 500	340.38	2.04	4.18	3.70	4.34	0.002337	1.91	220.91	276.81	0.48
Asta 4	430.4479	Bridge										
Asta 4	389.4705	tr 50	208.61	1.07	2.26	2.26	2.59	0.013331	2.67	87.08	141.21	0.90
Asta 4	389.4705	tr 100	247.96	1.07	2.36	2.36	2.71	0.012289	2.76	102.29	153.75	0.88
Asta 4	389.4705	tr 200	287.63	1.07	2.44	2.44	2.82	0.012074	2.88	115.16	162.69	0.89
Asta 4	389.4705	tr 500	340.38	1.07	2.55	2.55	2.95	0.011513	3.00	133.18	174.43	0.88
Asta 4	304.3083	tr 50	208.61	-0.07	0.73	0.82	1.15	0.022193	3.00	76.39	148.90	1.16
Asta 4	304.3083	tr 100	247.96	-0.07	0.78	0.91	1.27	0.024199	3.28	83.61	154.05	1.22
Asta 4	304.3083	tr 200	287.63	-0.07	0.83	0.98	1.38	0.024627	3.47	92.18	159.96	1.25
Asta 4	304.3083	tr 500	340.38	-0.07	0.89	1.07	1.52	0.025360	3.71	102.68	166.80	1.28
Asta 4	210.728	tr 50	208.61	-0.69	0.23	0.01	0.35	0.003036	1.64	151.54	240.23	0.57
Asta 4	210.728	tr 100	247.96	-0.69	0.30	0.08	0.44	0.003153	1.77	169.34	250.17	0.59
Asta 4	210.728	tr 200	287.63	-0.69	0.37	0.14	0.52	0.003232	1.88	186.92	259.77	0.60
Asta 4	210.728	tr 500	340.38	-0.69	0.46	0.22	0.63	0.003258	1.99	210.75	272.24	0.61
Asta 4	82.51281	tr 50	208.61	-1.42	-0.43	-0.50	-0.19	0.005929	2.28	102.07	165.13	0.80
Asta 4	82.51281	tr 100	247.96	-1.42	-0.31	-0.41	-0.07	0.005049	2.29	121.97	175.86	0.75
Asta 4	82.51281	tr 200	287.63	-1.42	-0.20	-0.33	0.03	0.004441	2.31	141.41	185.32	0.72
Asta 4	82.51281	tr 500	340.38	-1.42	-0.07	-0.24	0.17	0.003917	2.34	166.39	196.82	0.69
Asta 4	17.42796	tr 50	208.61	-1.89	-0.44	-0.99	-0.37	0.001001	1.25	192.26	210.28	0.35
Asta 4	17.42796	tr 100	247.96	-1.89	-0.32	-0.91	-0.25	0.001001	1.32	217.43	220.94	0.36
Asta 4	17.42796	tr 200	287.63	-1.89	-0.22	-0.83	-0.13	0.001001	1.39	241.67	229.71	0.36
Asta 4	17.42796	tr 500	340.38	-1.89	-0.08	-0.74	0.01	0.001001	1.47	272.59	240.23	0.37

COMUNE DI ALGHERO (SS)

Studio di assetto idraulico ai sensi dell'art. 8 comma 2bis delle N.A. del PAI

Area d'indagine: perimetro oggetto di Variante del P.C.V.B.

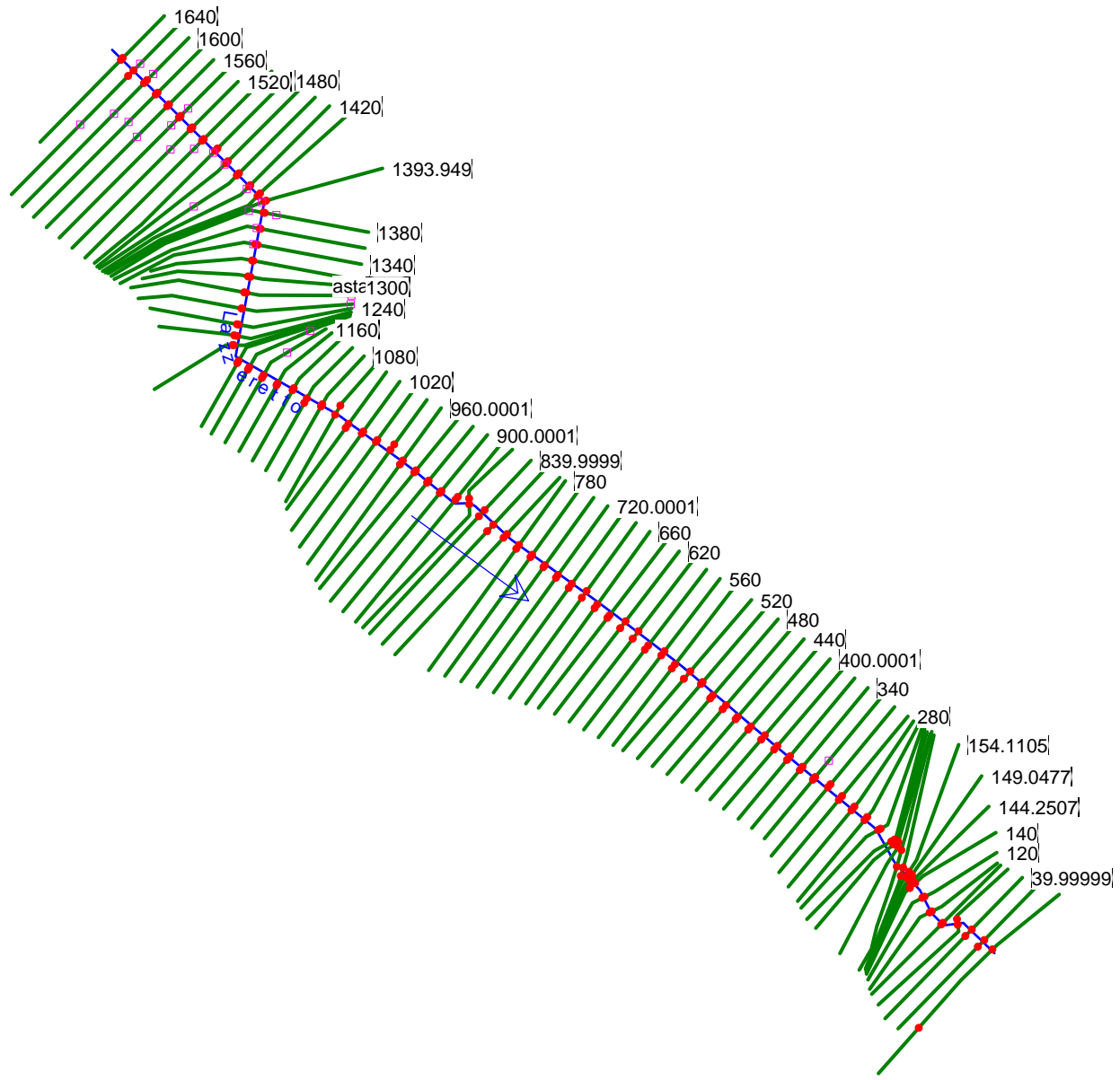
SIMULAZIONI IN MOTO PERMANENTE

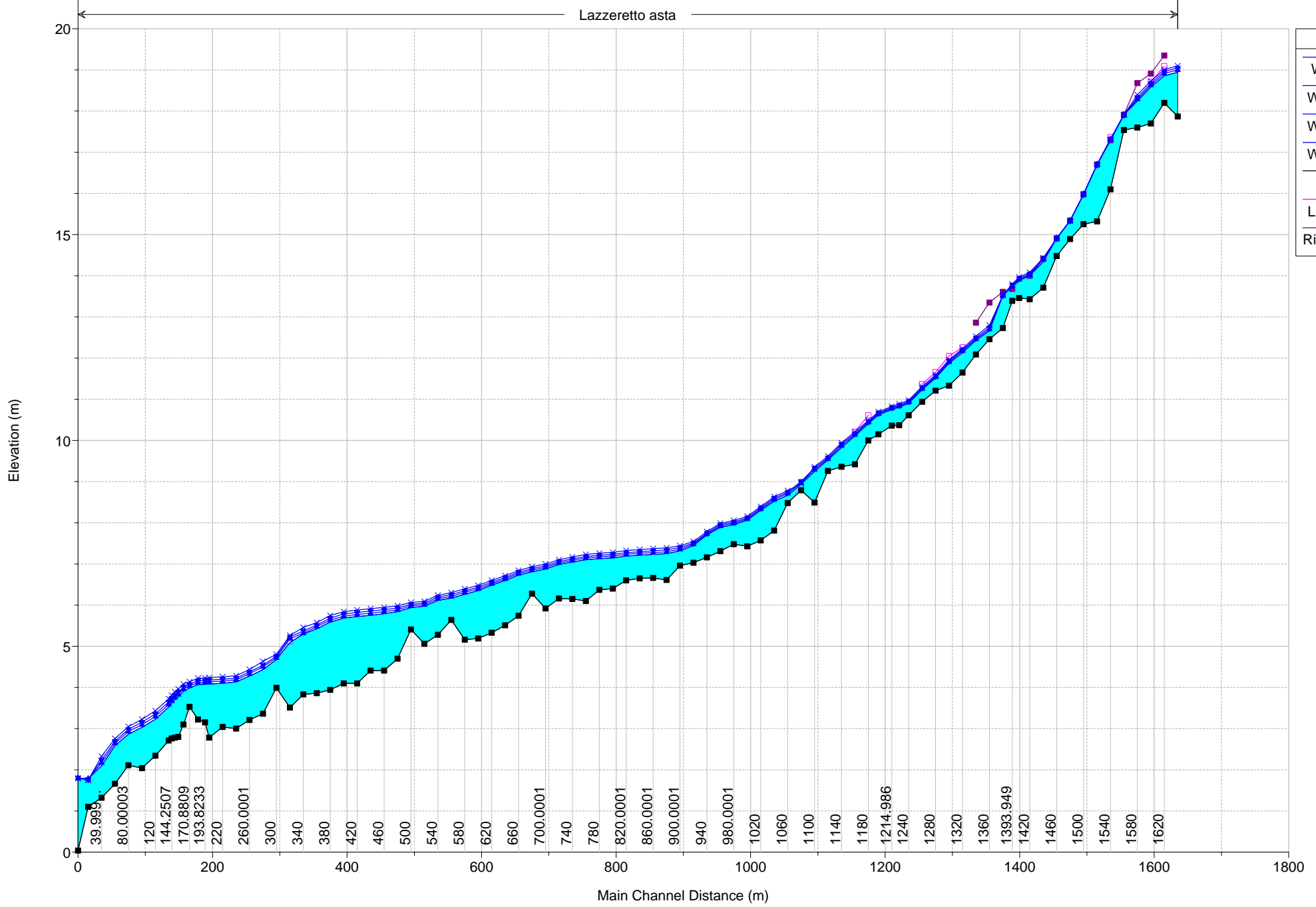
Fiume del Lazzaretto

- Schemi planimetrici
- Profili longitudinali dei tiranti idrici per le portate con tempi di ritorno di 50-100-200-500 anni
- Sezioni trasversali con i tiranti idrici per le portate con tempi di ritorno di 50-100-200-500 anni
- Tabelle numeriche delle grandezze geometriche e idrauliche di input e output

2 - Fiume del Lazzaretto			PORTATE mc/s			
River	Reach	RS	tr 50	tr 100	tr 200	tr 500
Lazzaretto	asta	1640	27.148	32.363	37.667	44.863

			CONDIZIONI AL CONTORNO	
River	Reach	PROFILI	upstream	downstream
Lazzaretto	asta	tutti	Critical depth	Known WS=1.80 m slm





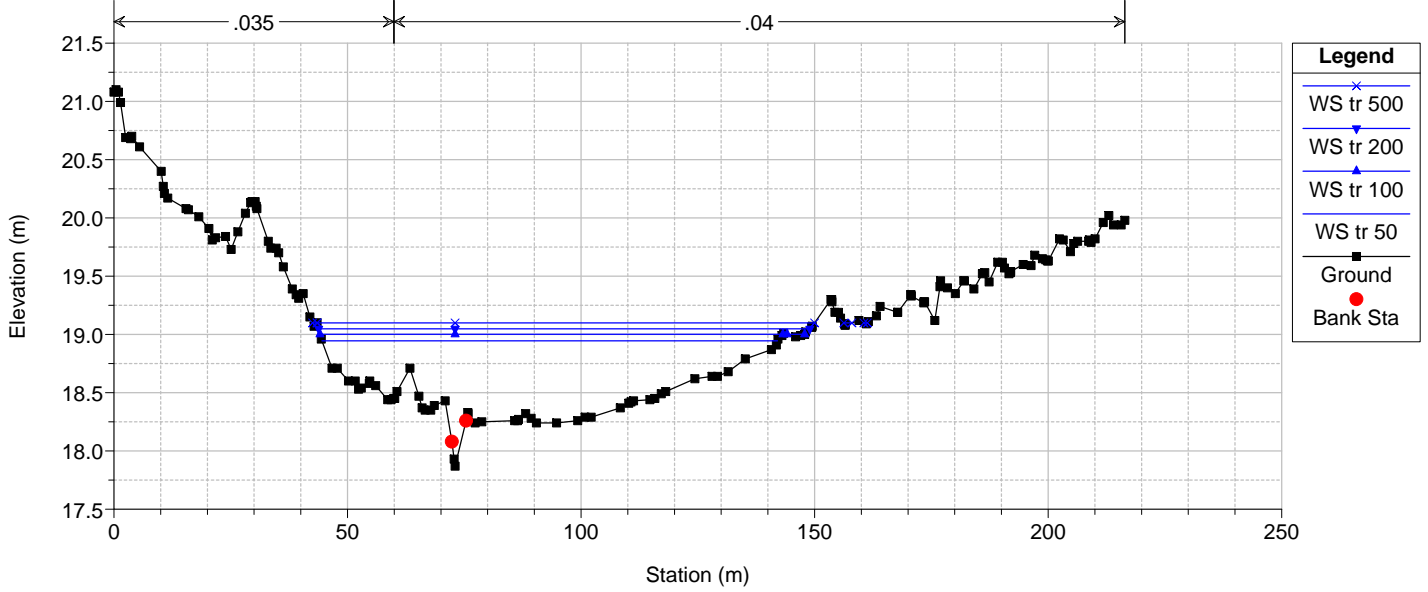
Legend

- WS tr 50
- WS tr 100
- WS tr 200
- WS tr 500
- Ground
- Left Levee
- Right Levee

lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

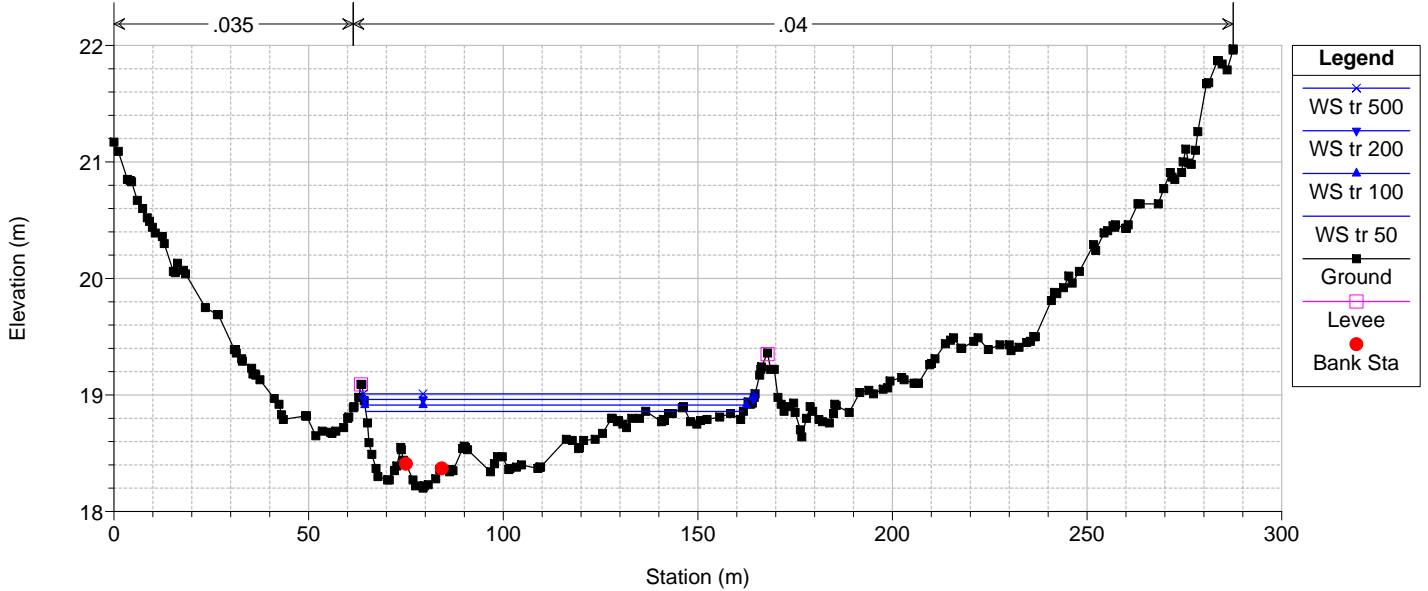
River = Lazzaretto Reach = asta RS = 1640 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

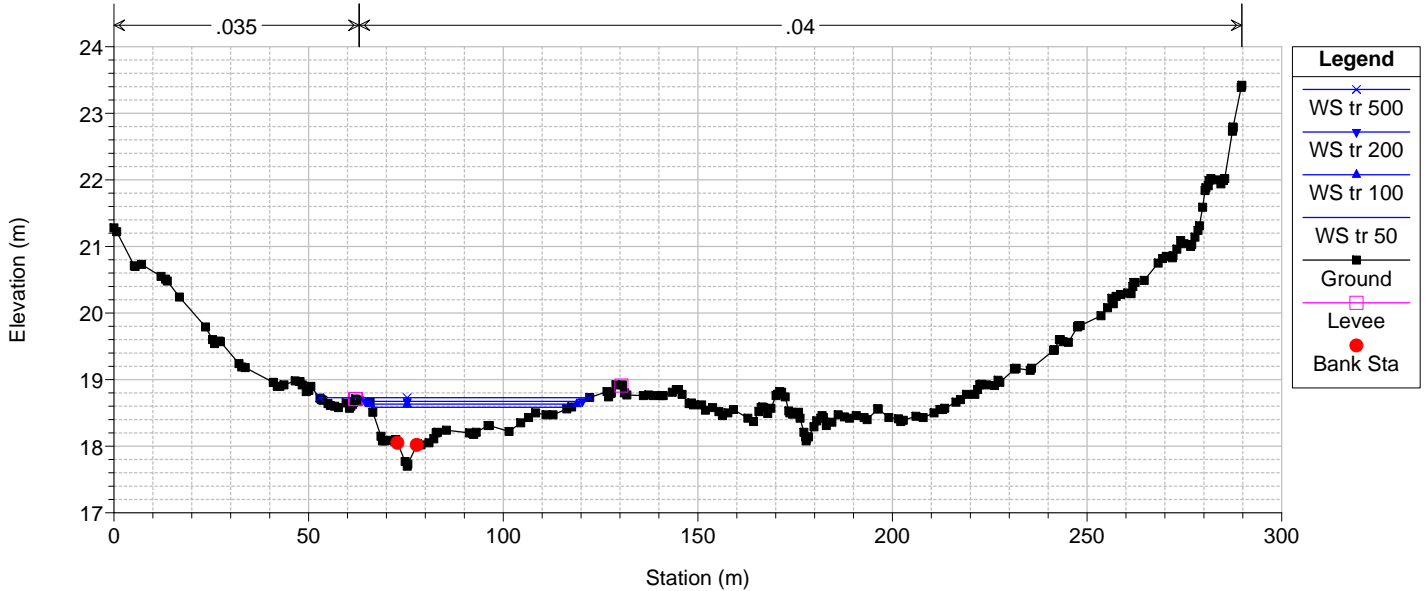
River = Lazzaretto Reach = asta RS = 1620 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

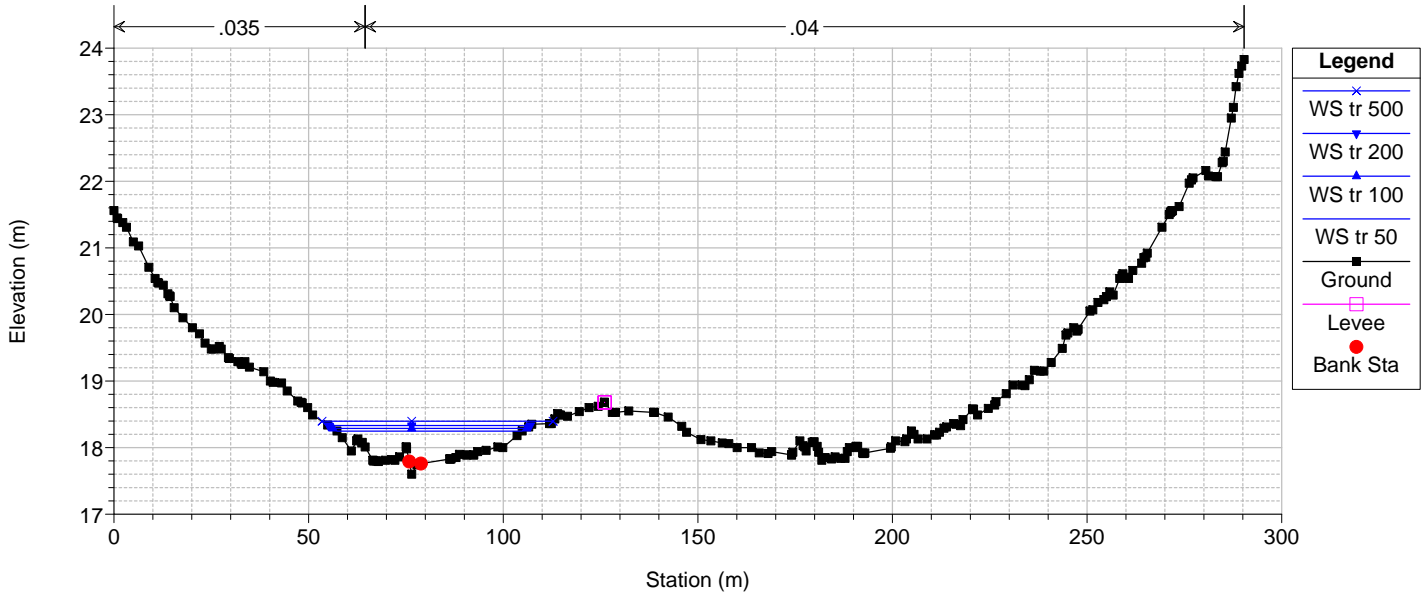
River = Lazzaretto Reach = asta RS = 1600 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

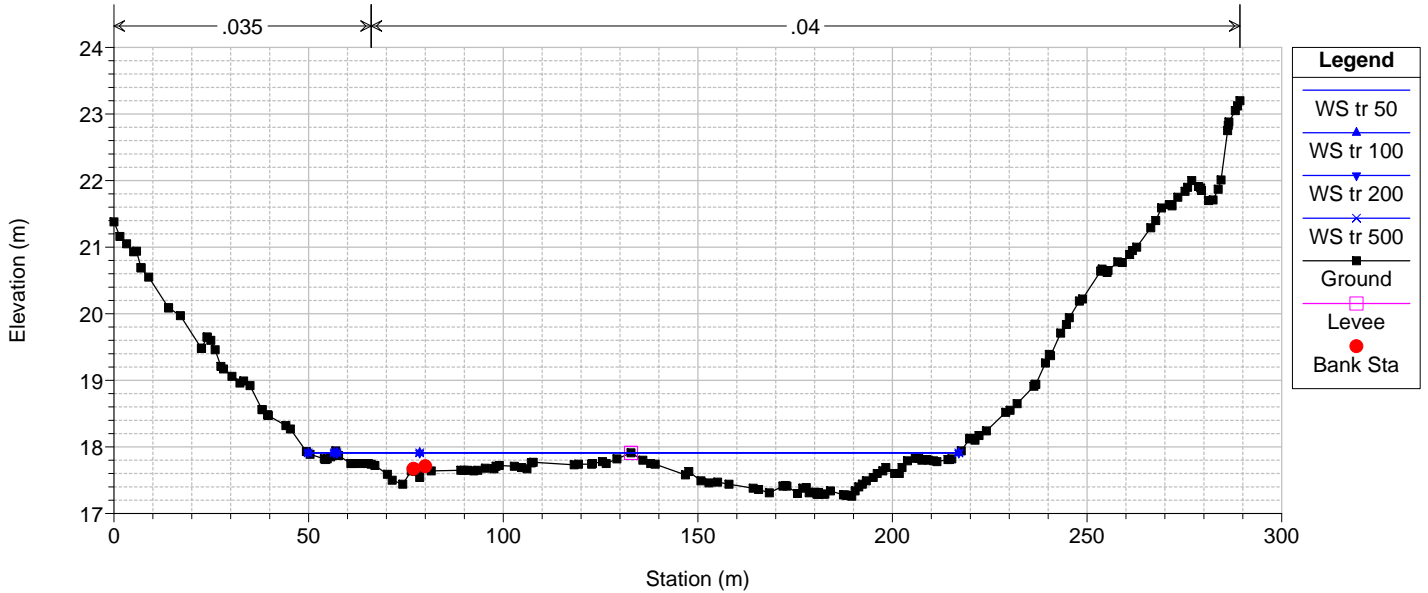
River = Lazzeretto Reach = asta RS = 1580 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

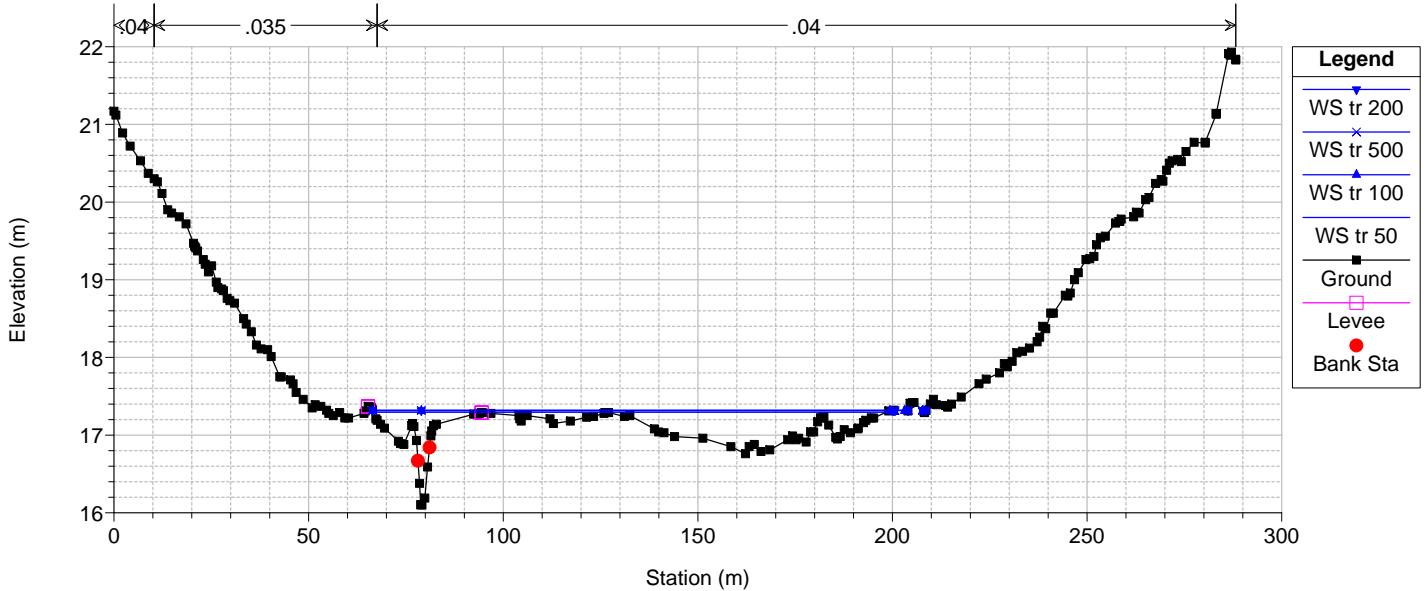
River = Lazzeretto Reach = asta RS = 1560 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

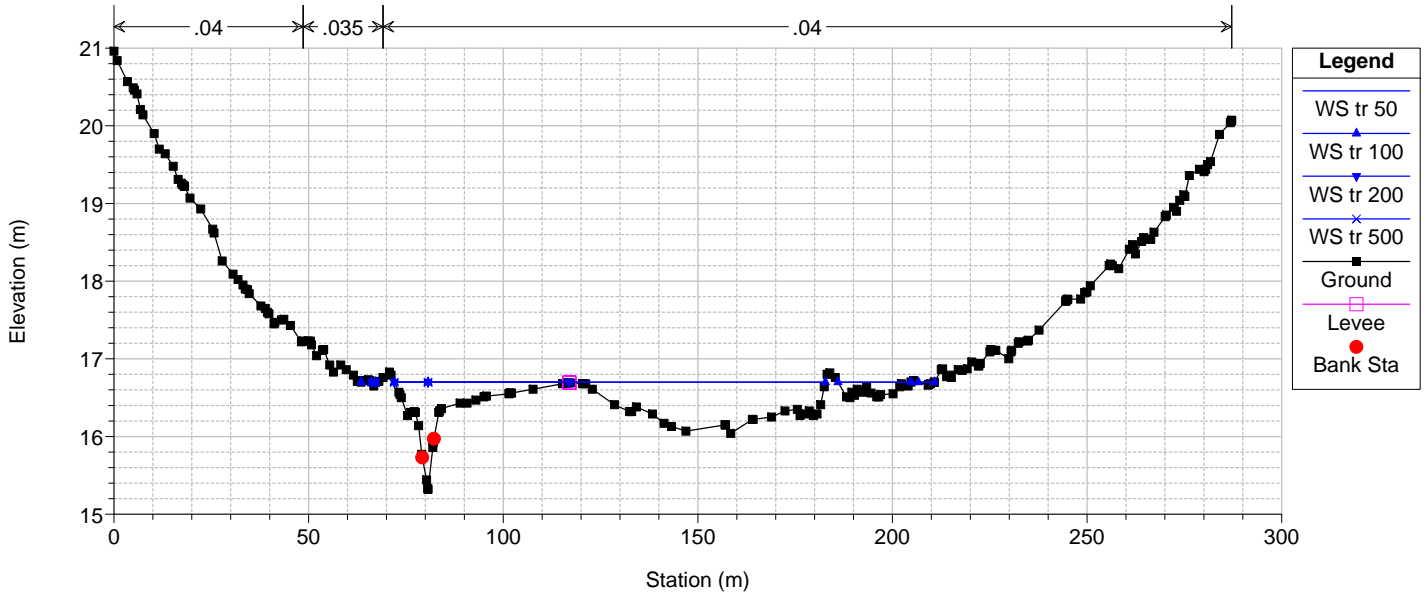
River = Lazzeretto Reach = asta RS = 1540 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto28072017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

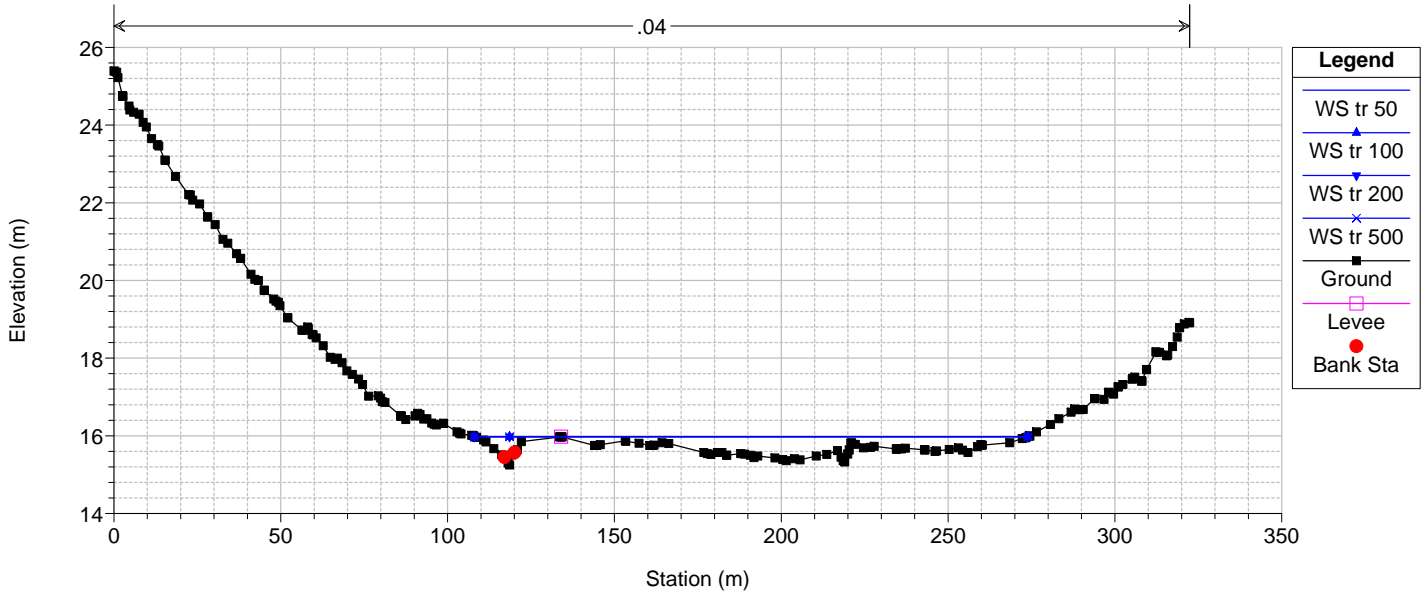
River = Lazzeretto Reach = asta RS = 1520 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto28072017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

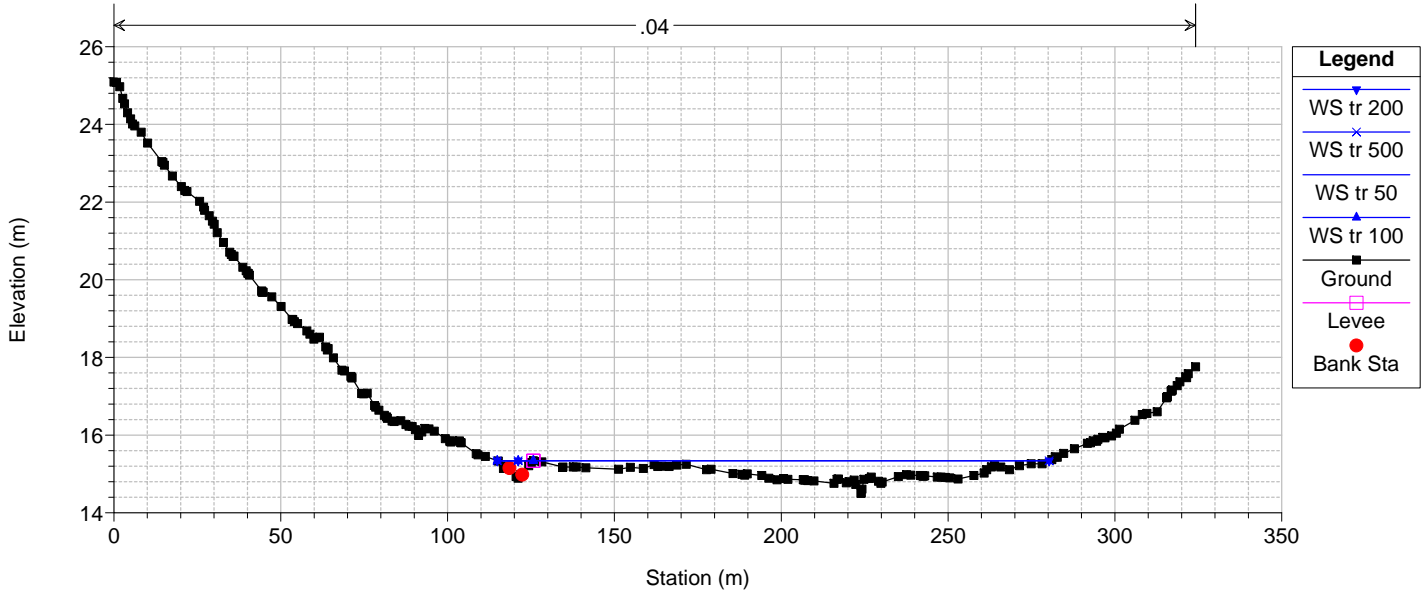
River = Lazzeretto Reach = asta RS = 1500 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto28072017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

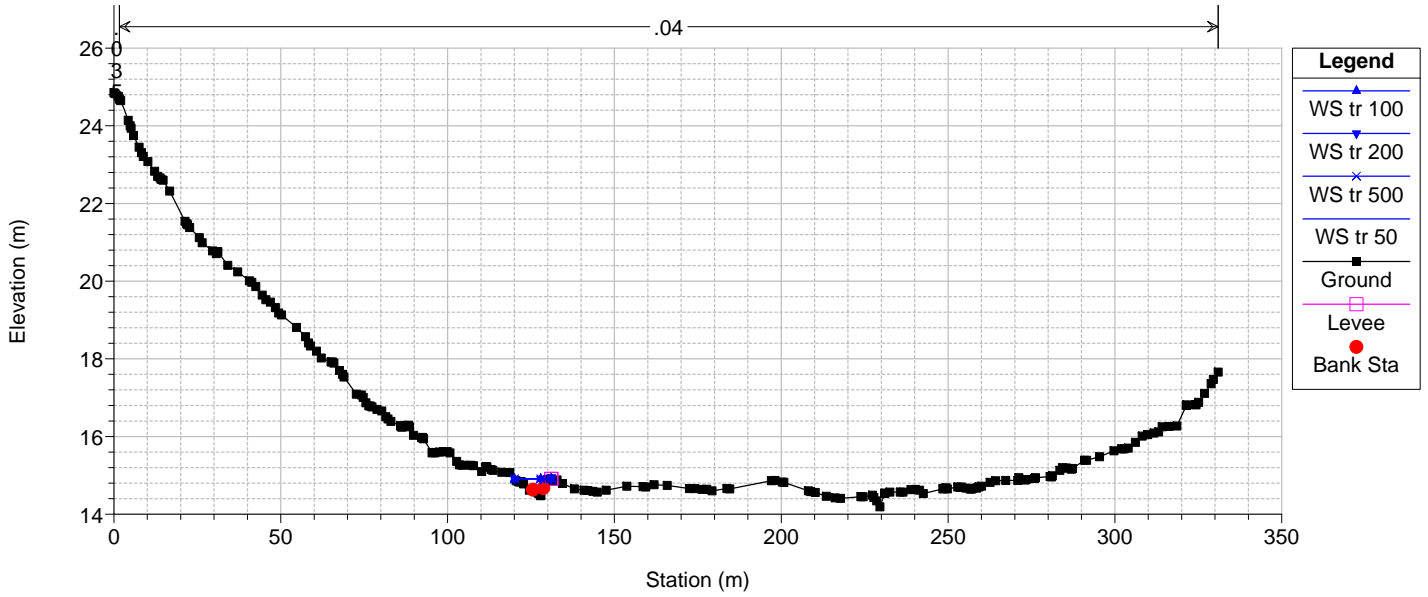
River = Lazzeretto Reach = asta RS = 1480 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

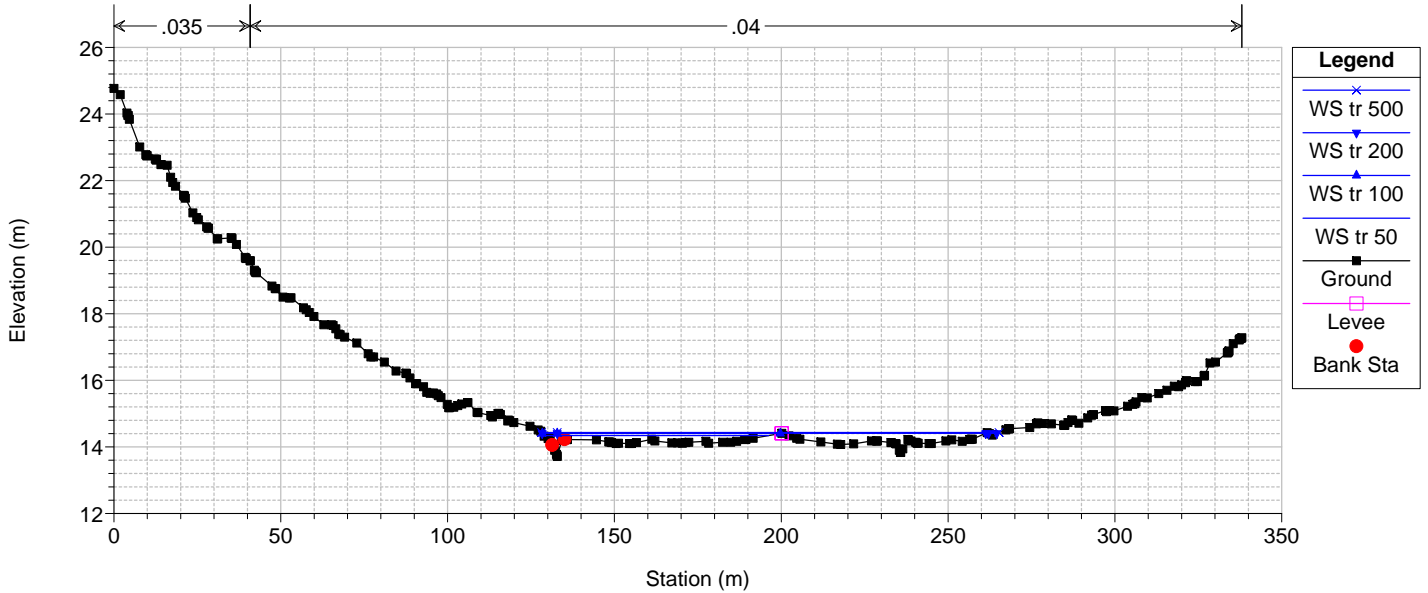
River = Lazzaretto Reach = asta RS = 1460 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

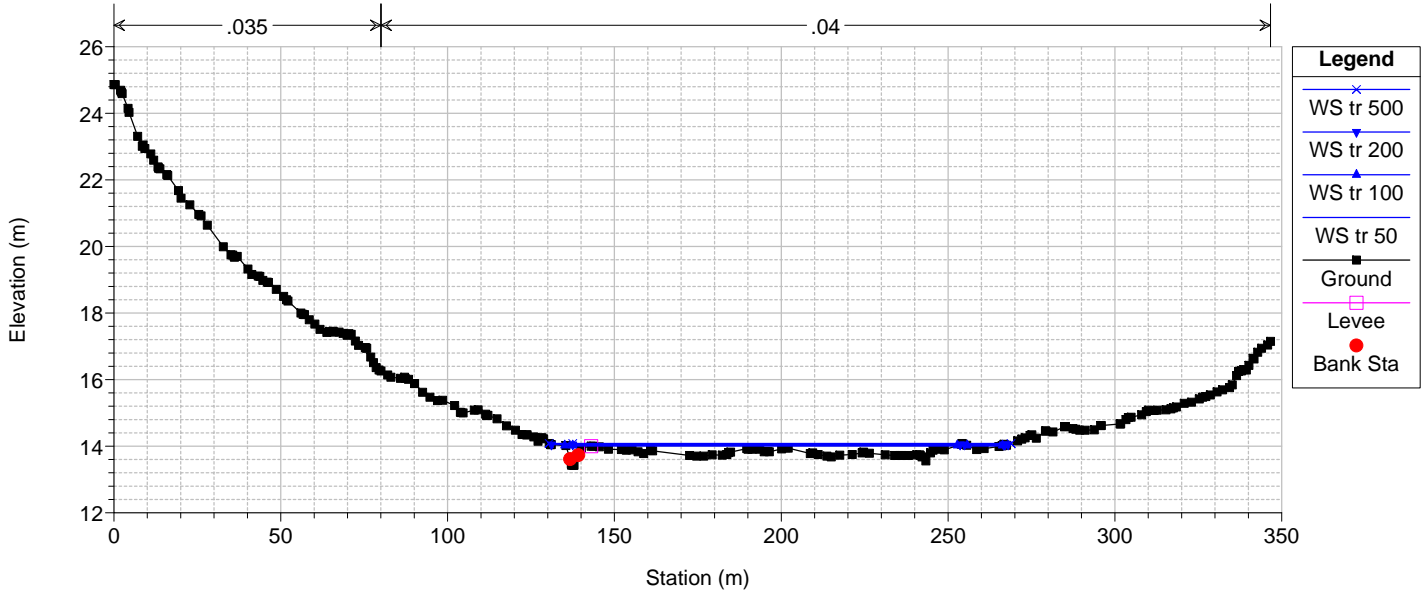
River = Lazzaretto Reach = asta RS = 1440 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

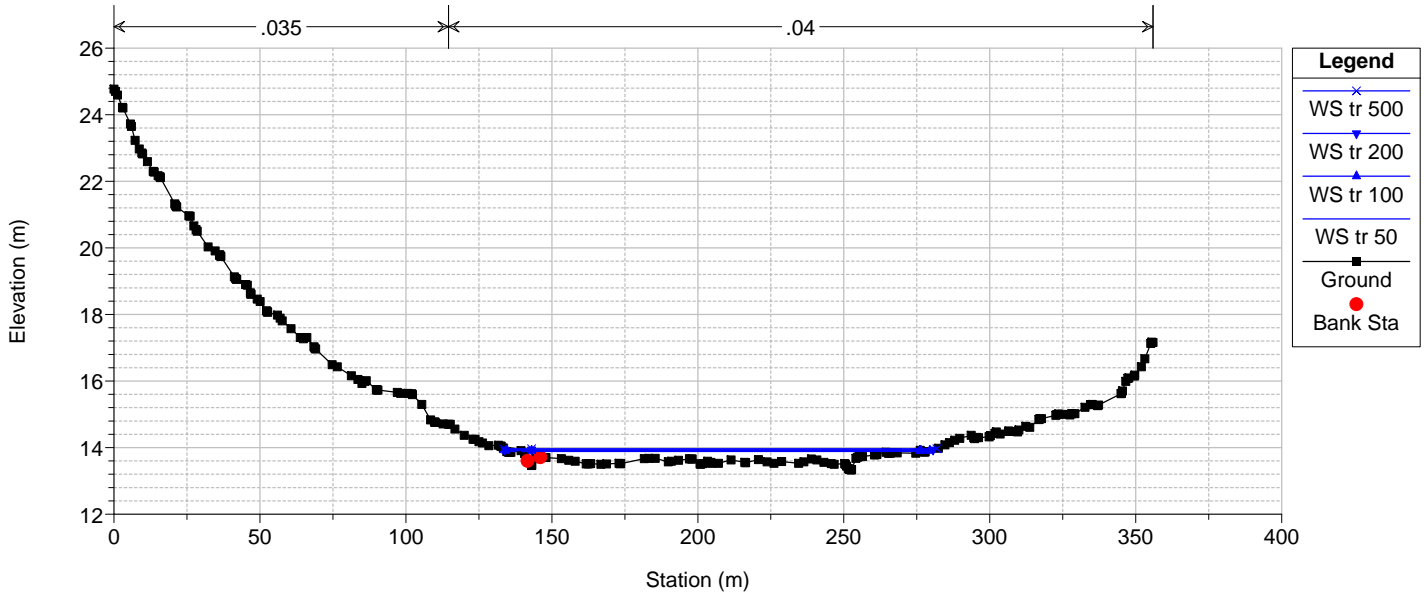
River = Lazzaretto Reach = asta RS = 1420 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

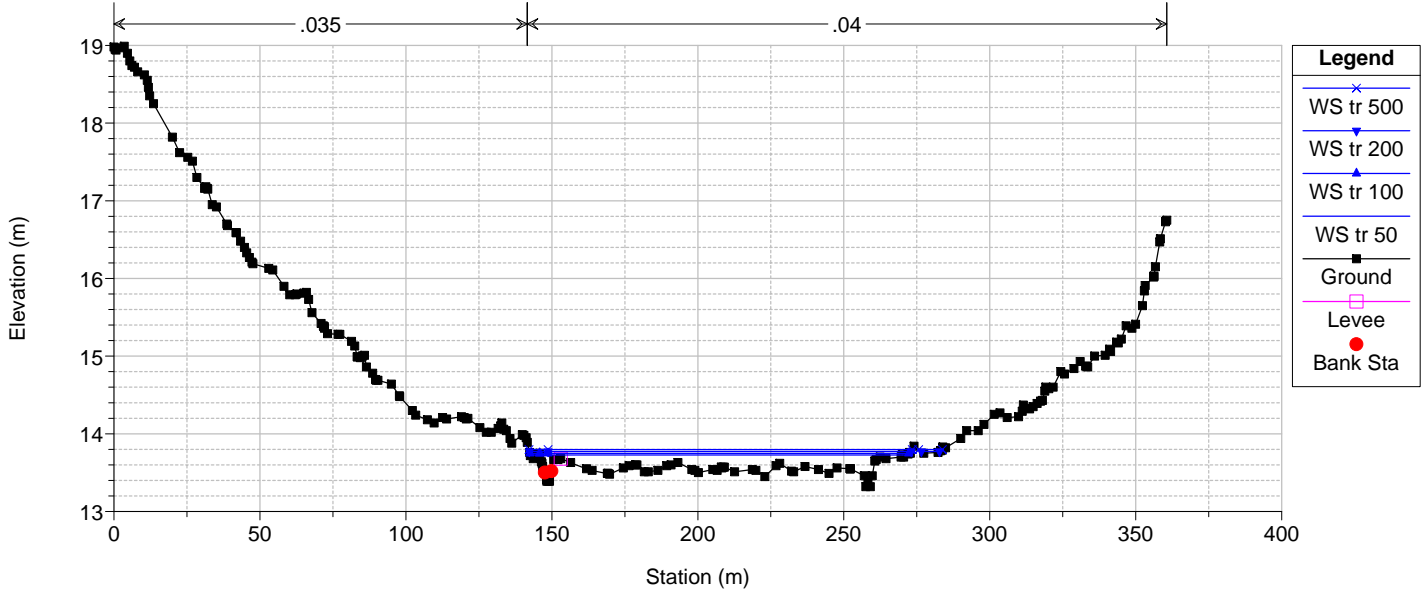
River = Lazzeretto Reach = asta RS = 1404.303 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

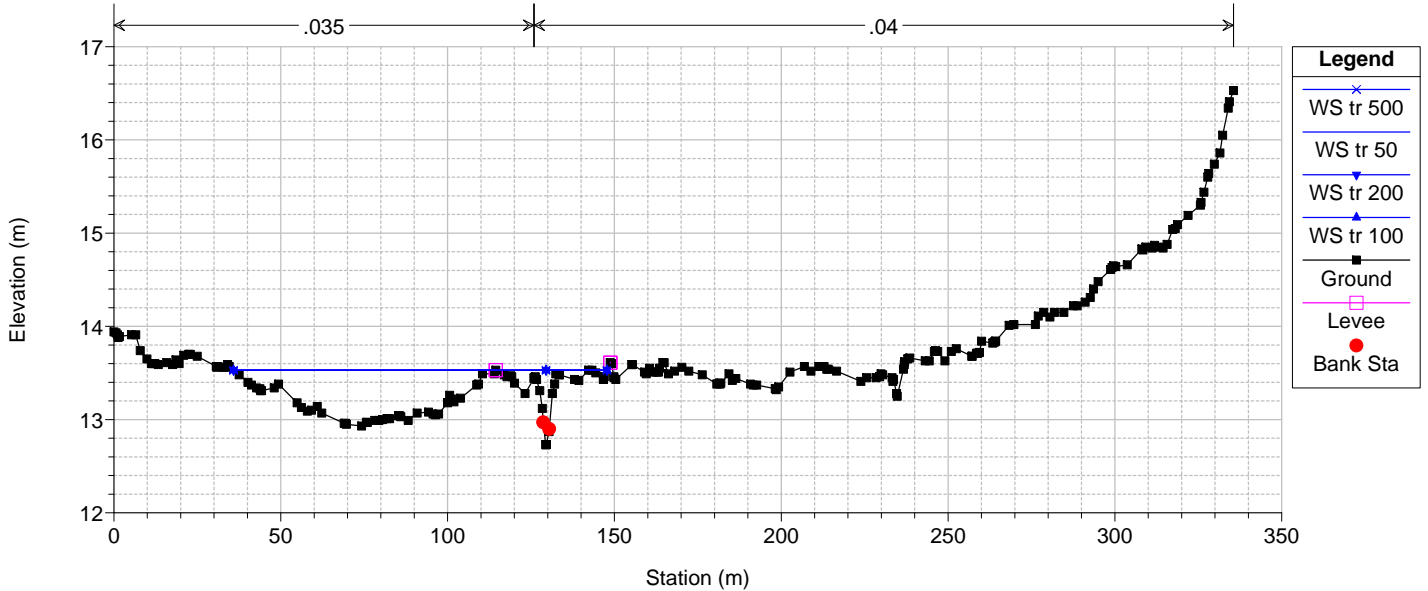
River = Lazzeretto Reach = asta RS = 1393.949 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

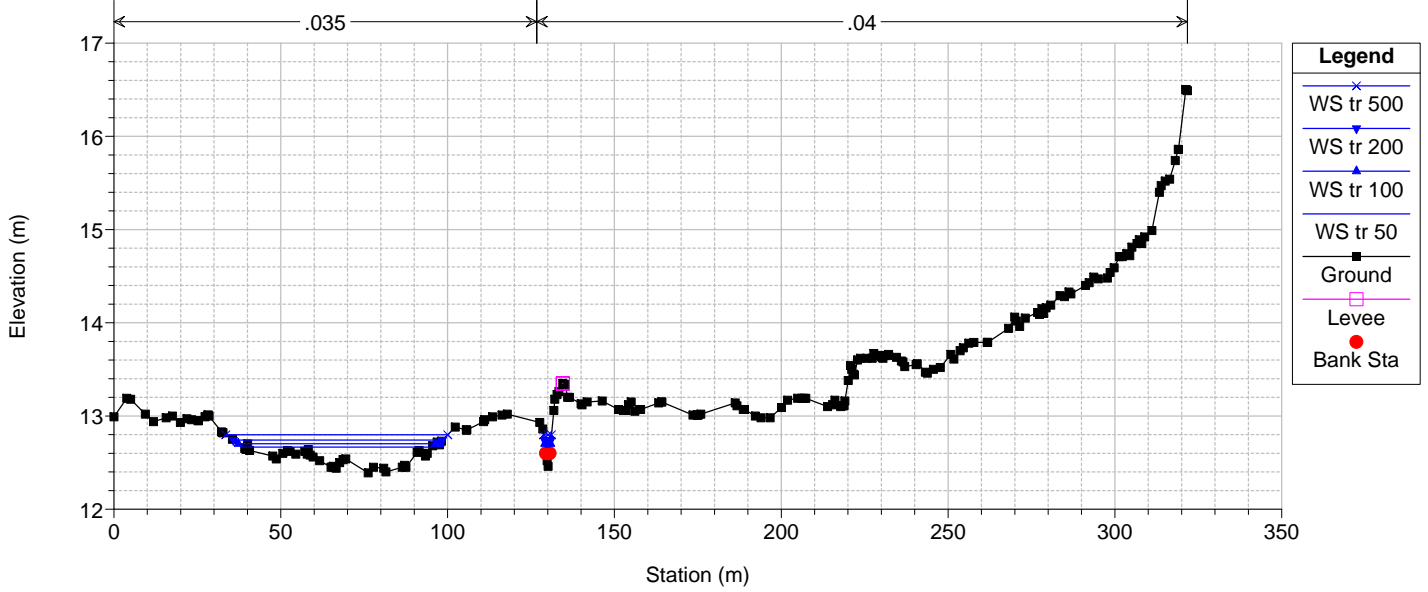
River = Lazzeretto Reach = asta RS = 1380 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

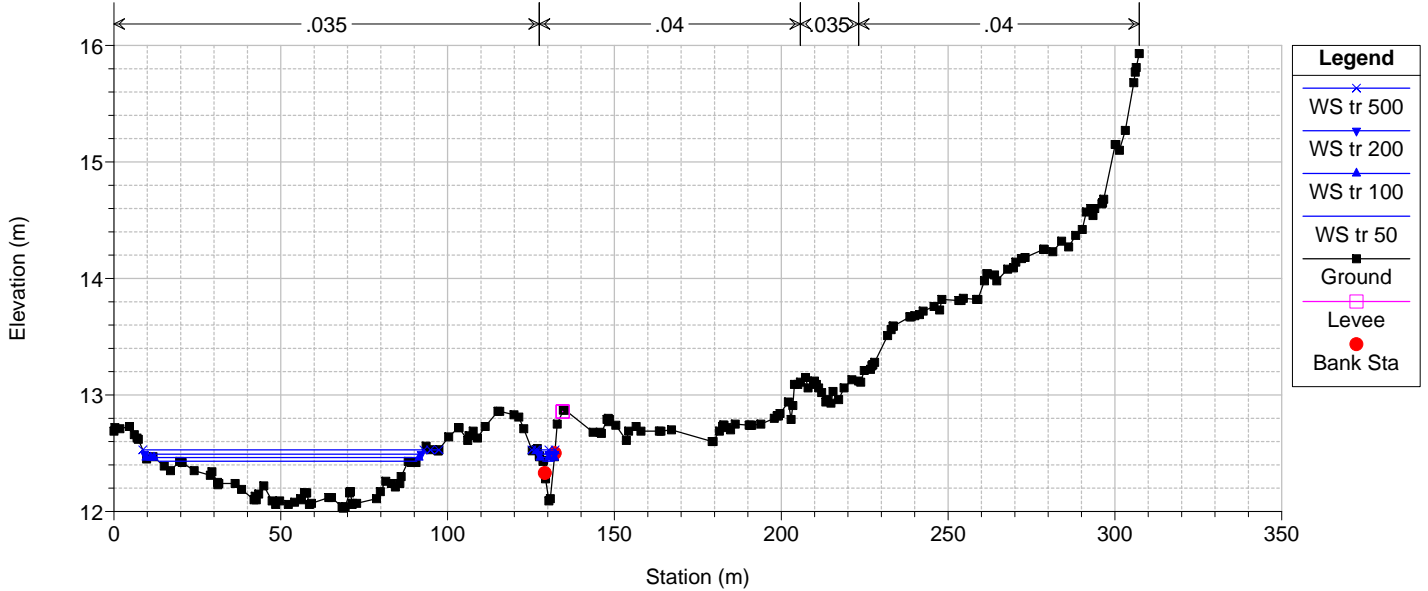
River = Lazzaretto Reach = asta RS = 1360 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

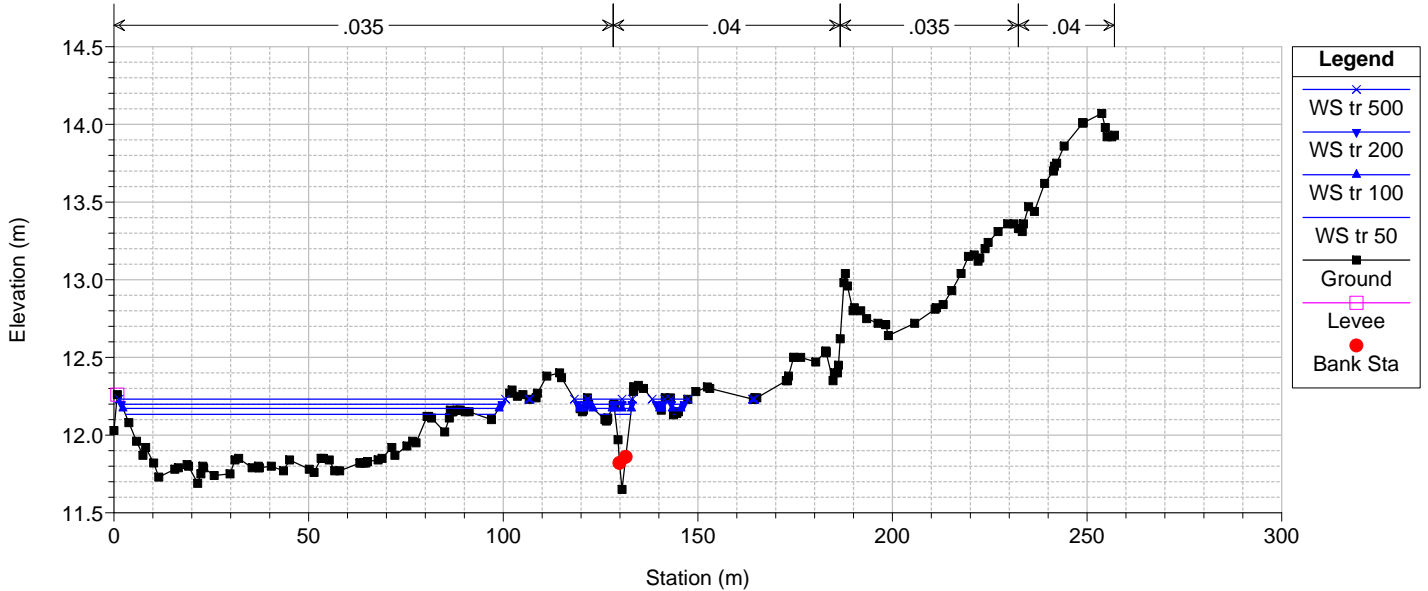
River = Lazzaretto Reach = asta RS = 1340 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

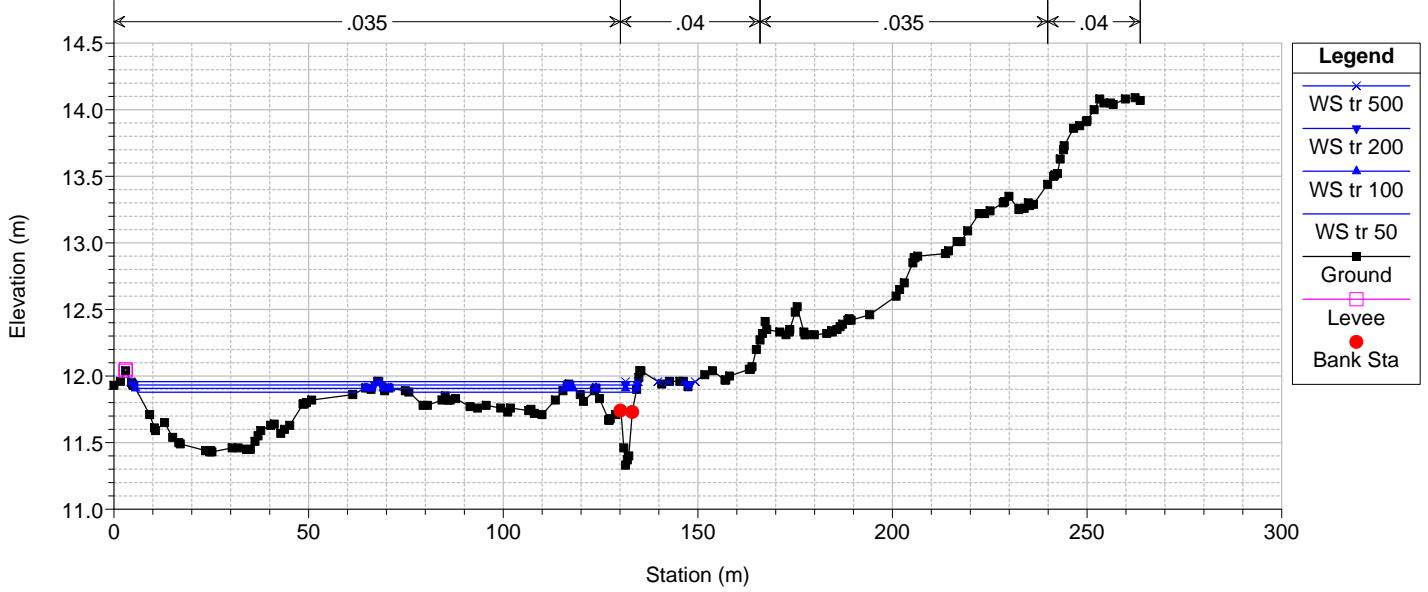
River = Lazzaretto Reach = asta RS = 1320 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

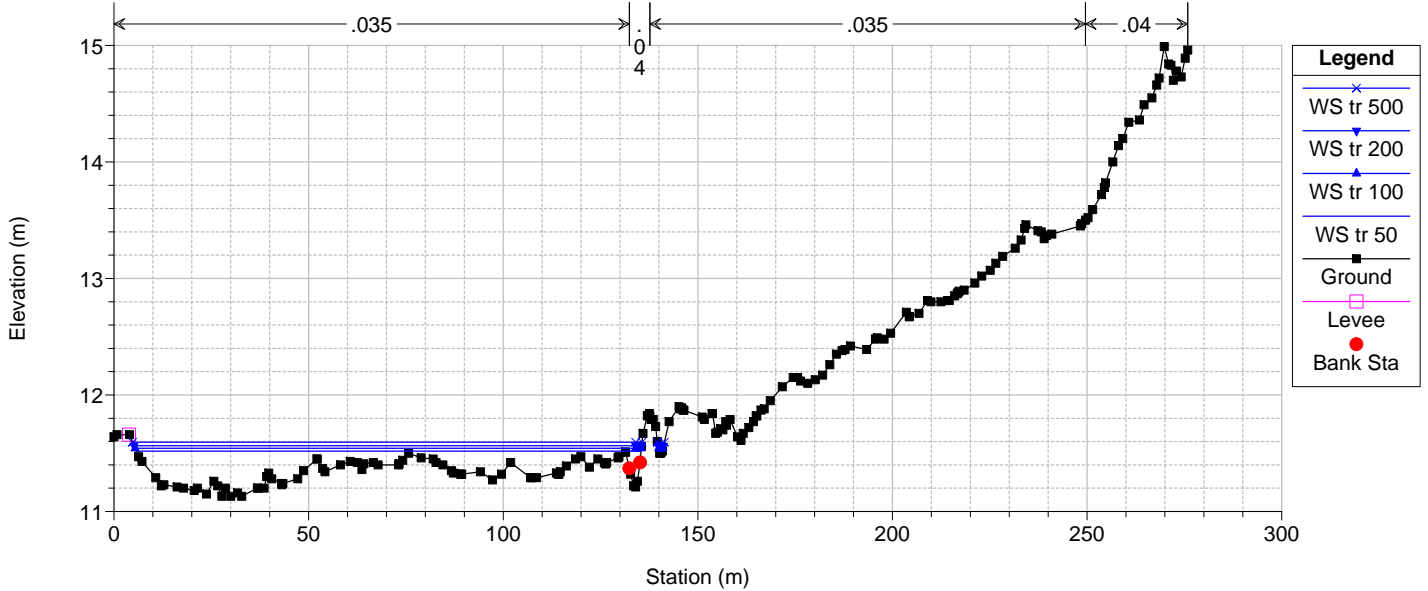
River = Lazzeretto Reach = asta RS = 1300 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

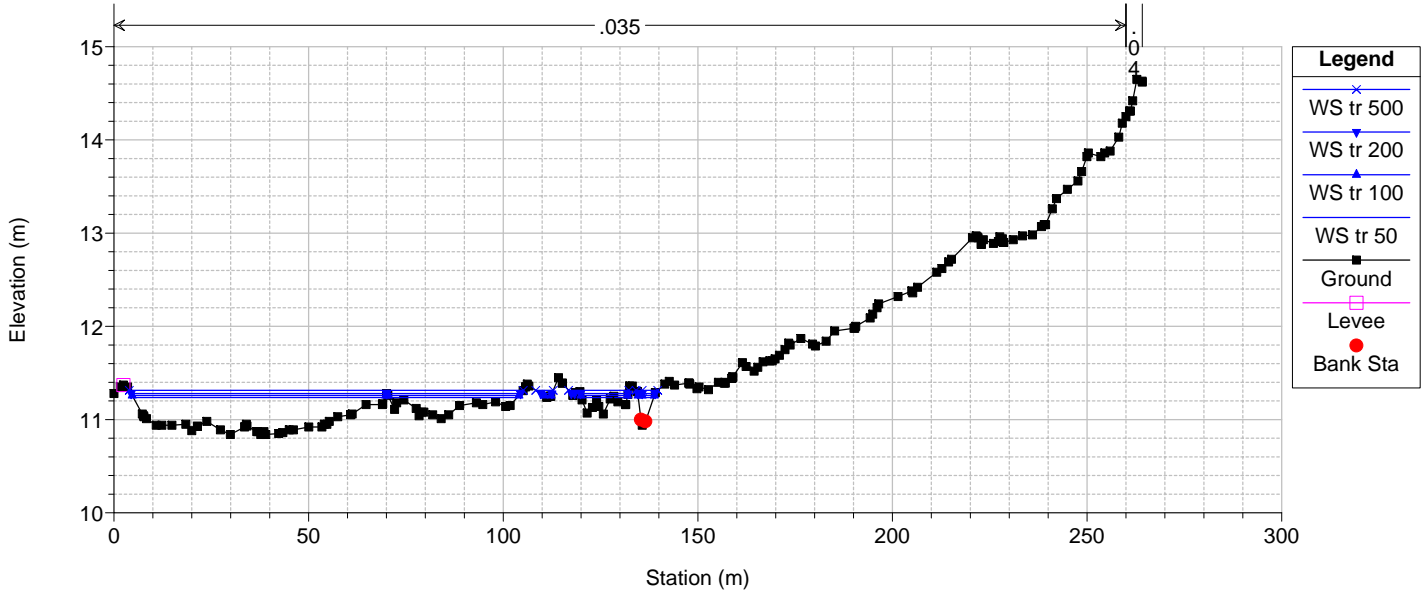
River = Lazzeretto Reach = asta RS = 1280 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

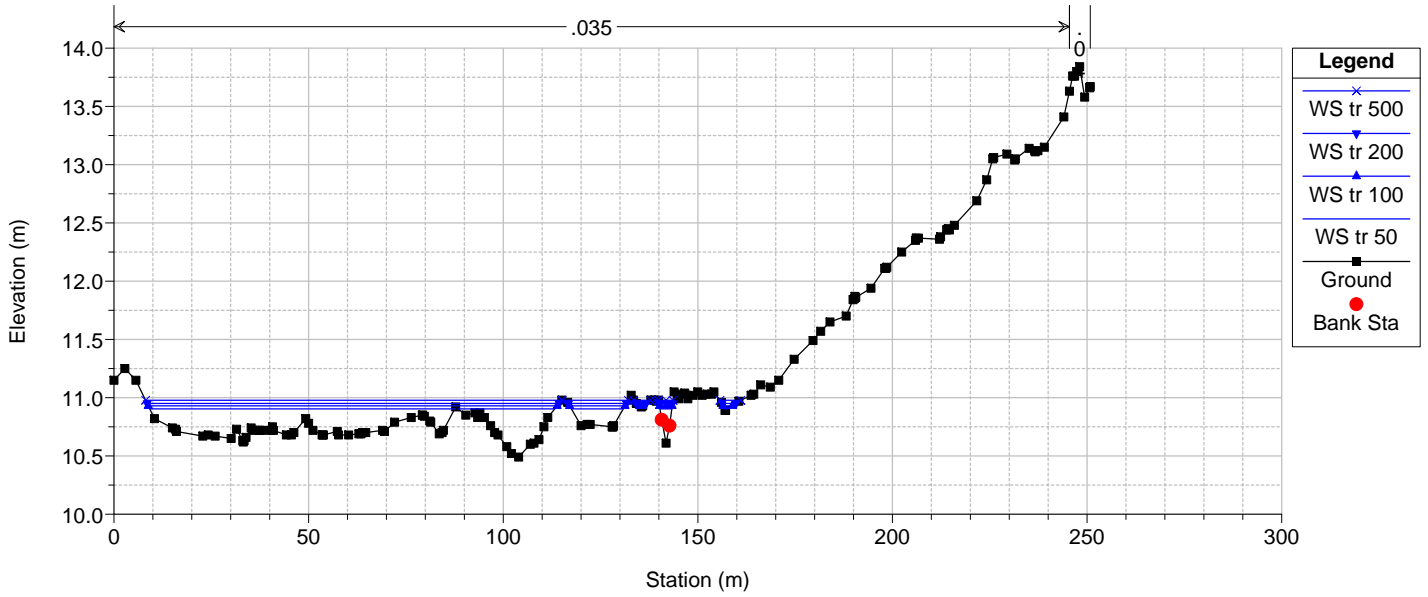
River = Lazzeretto Reach = asta RS = 1260 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

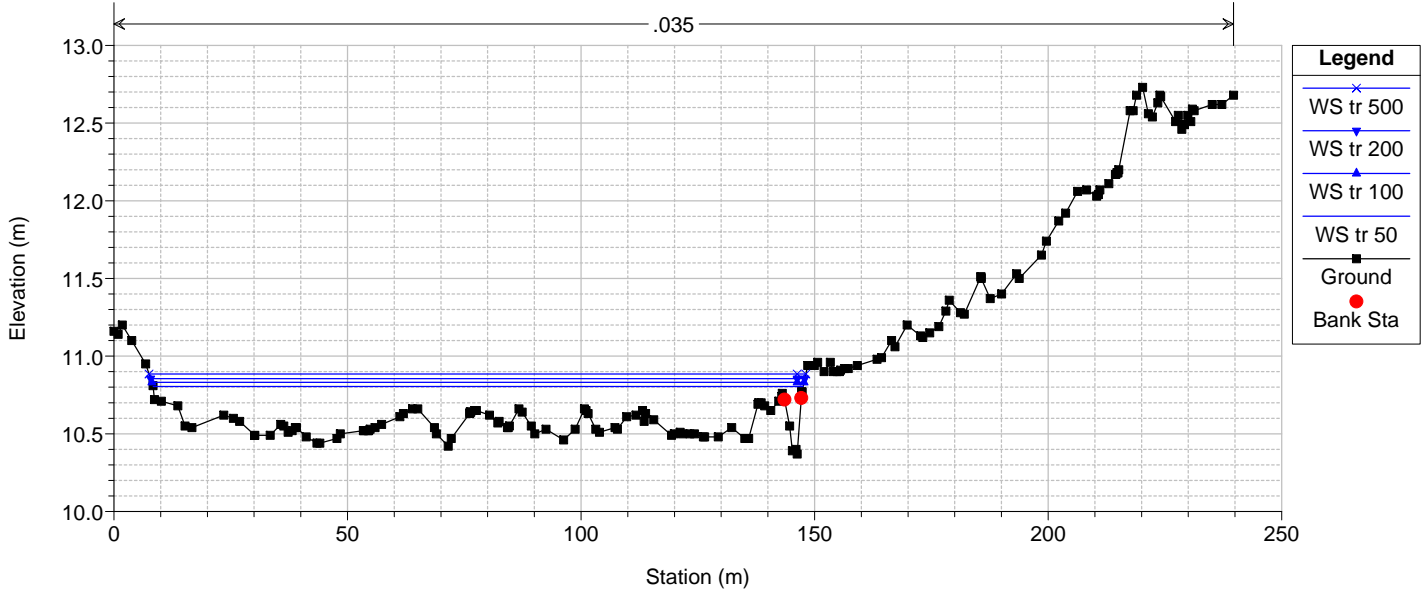
River = Lazzeretto Reach = asta RS = 1240 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

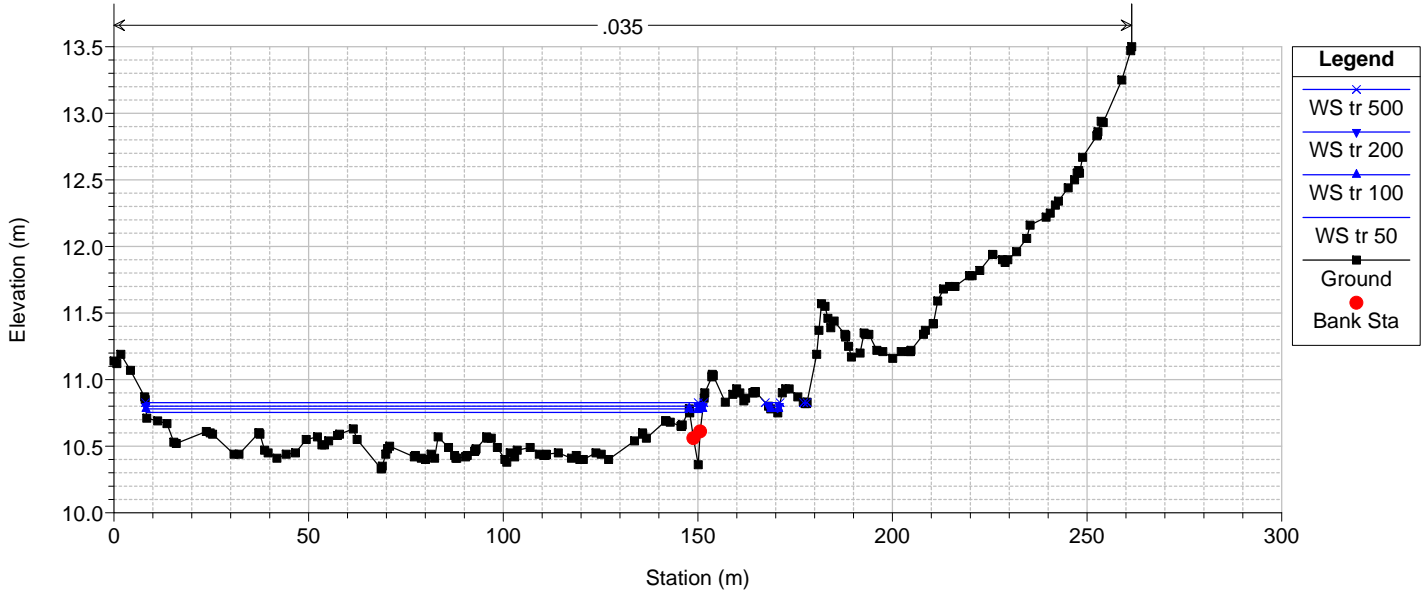
River = Lazzeretto Reach = asta RS = 1225.973 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

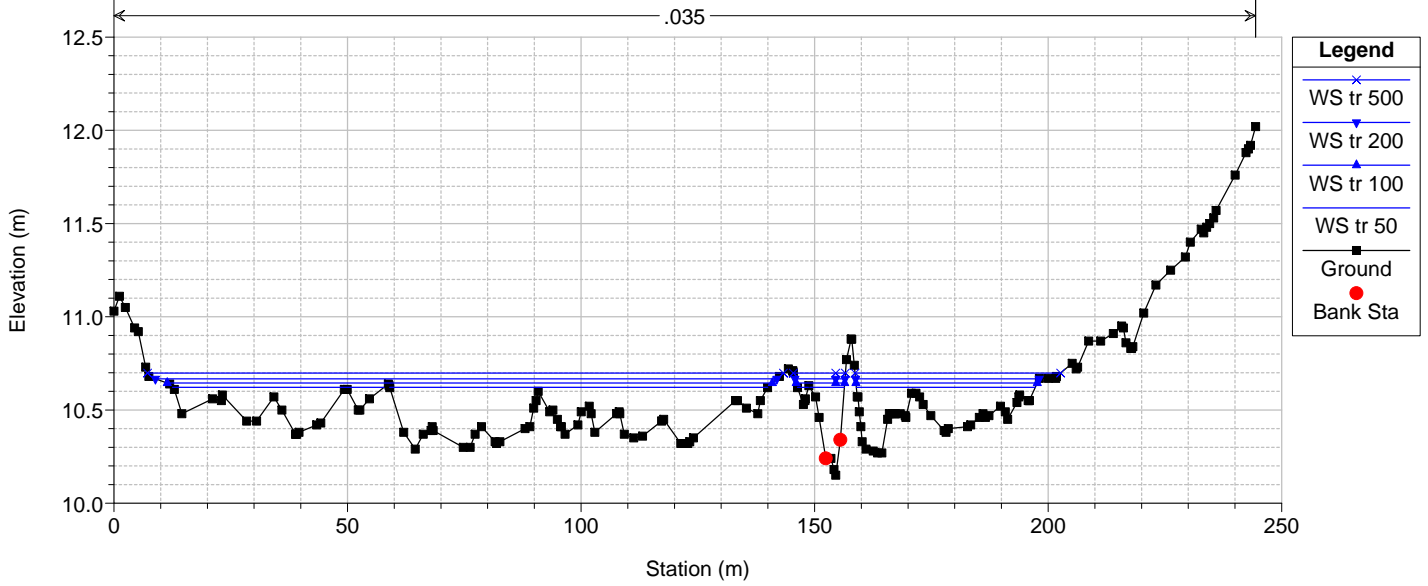
River = Lazzeretto Reach = asta RS = 1214.986 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

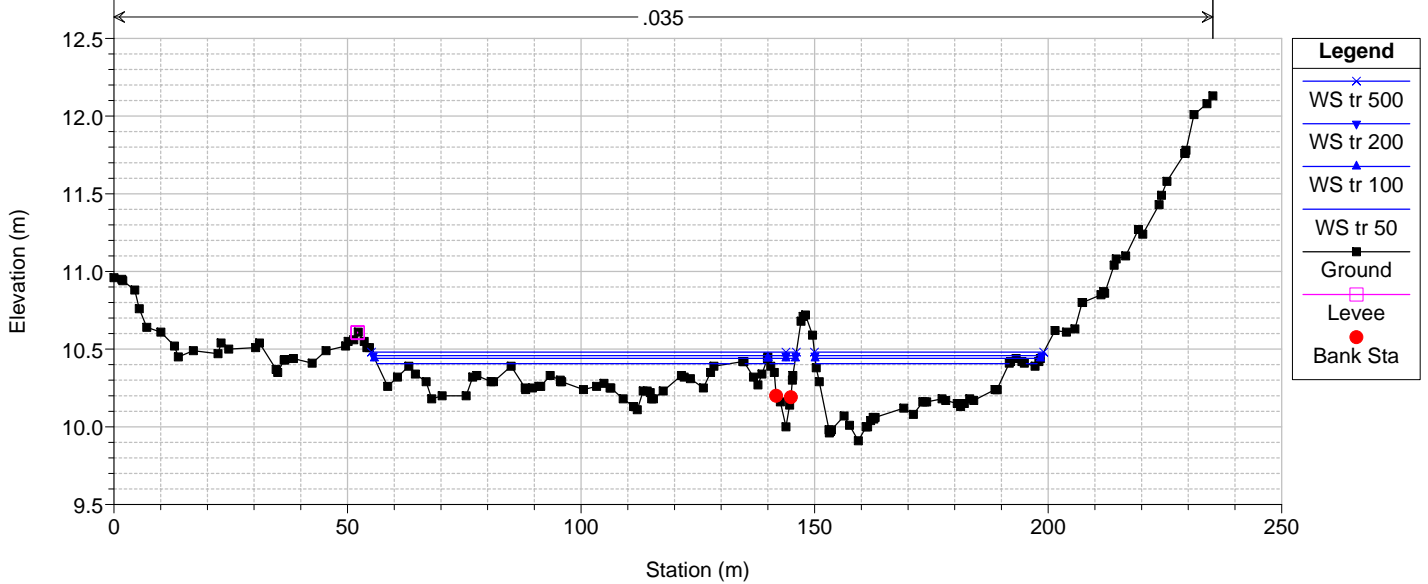
River = Lazzaretto Reach = asta RS = 1195.076 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

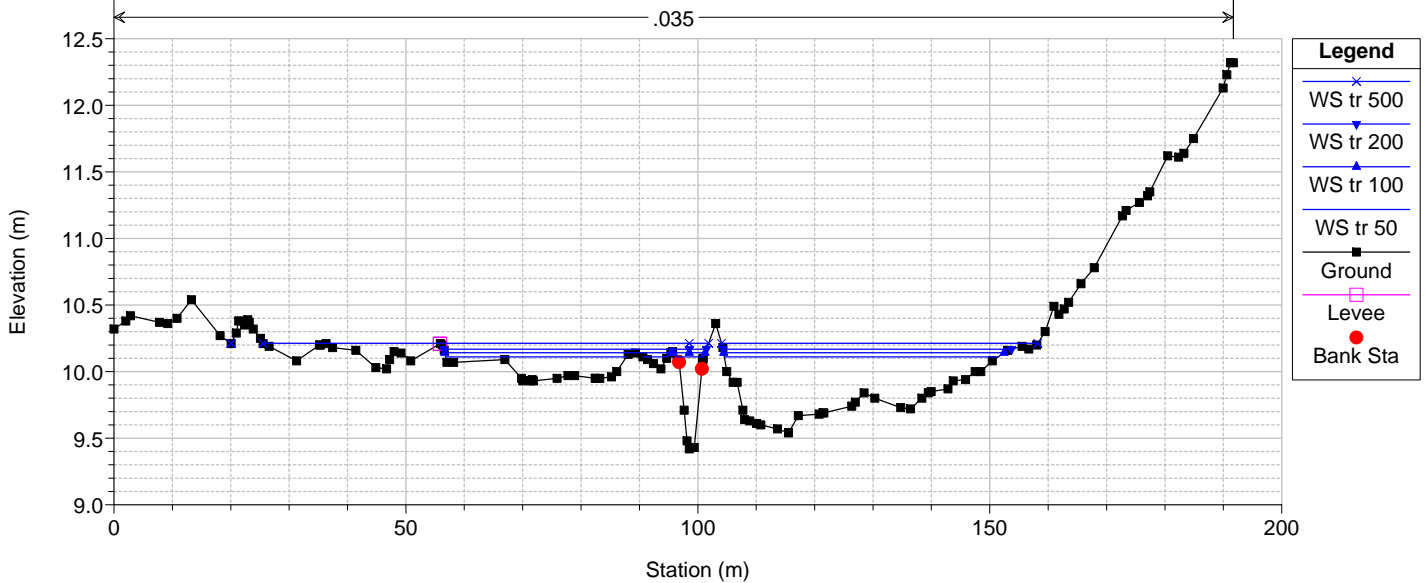
River = Lazzaretto Reach = asta RS = 1180 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

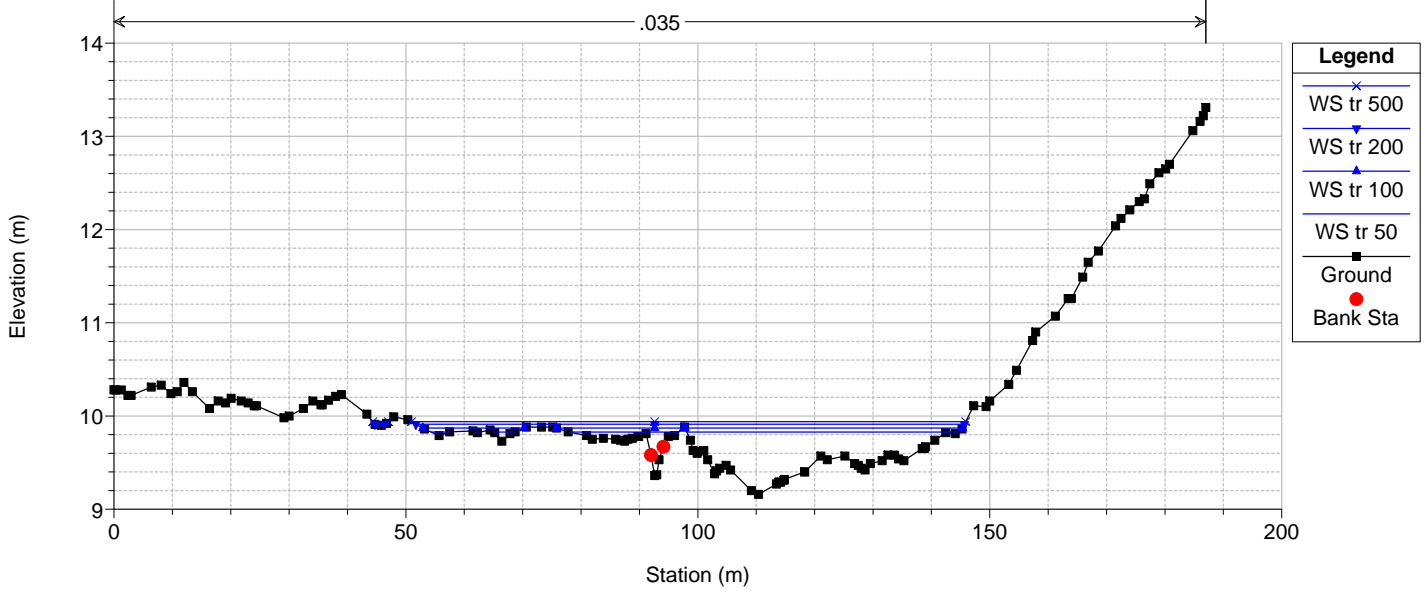
River = Lazzaretto Reach = asta RS = 1160 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

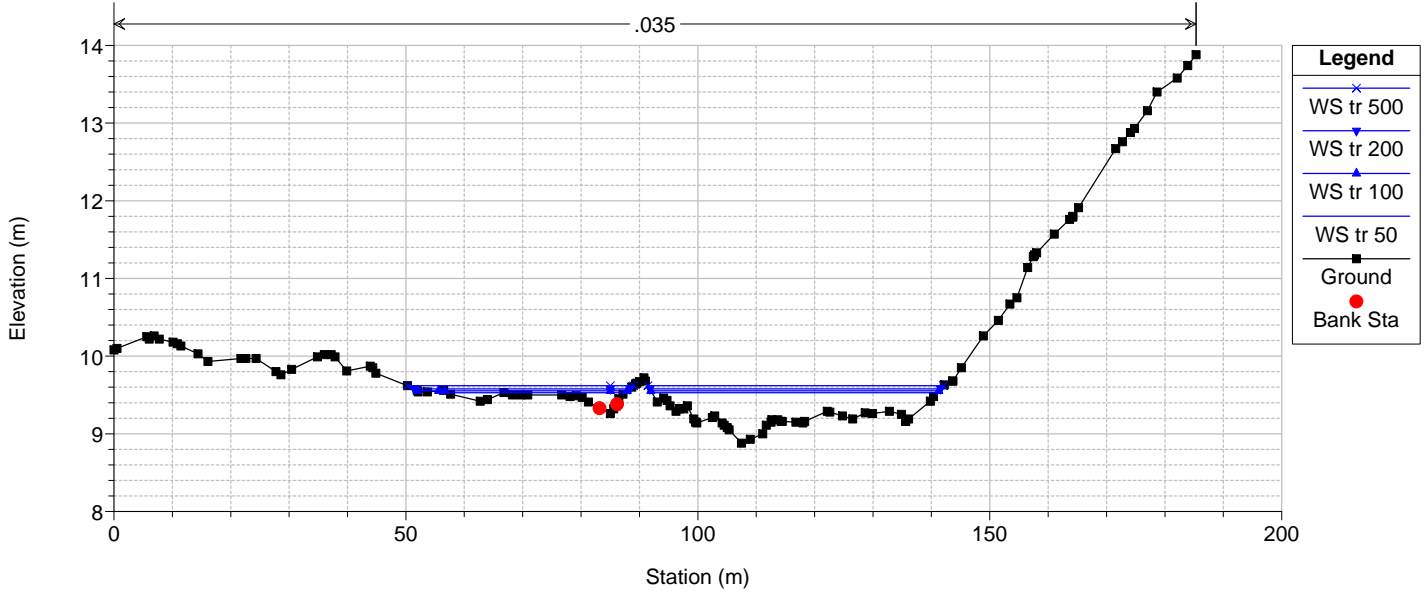
River = Lazzeretto Reach = asta RS = 1140 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

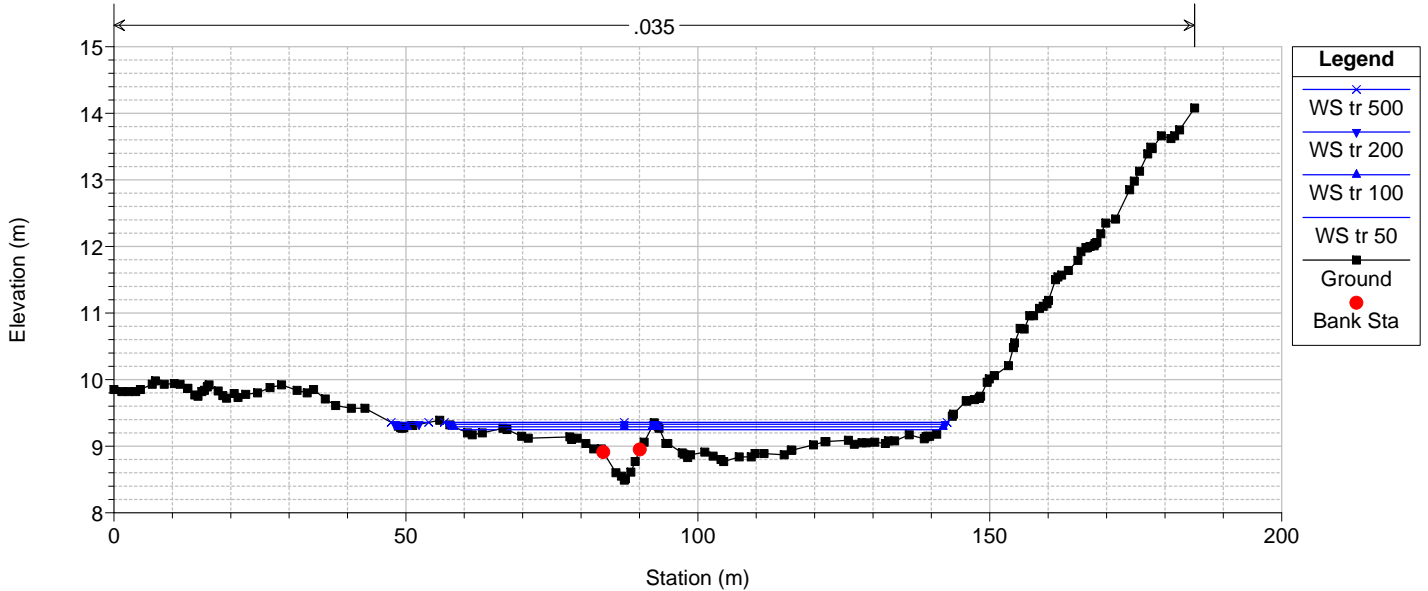
River = Lazzeretto Reach = asta RS = 1120 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

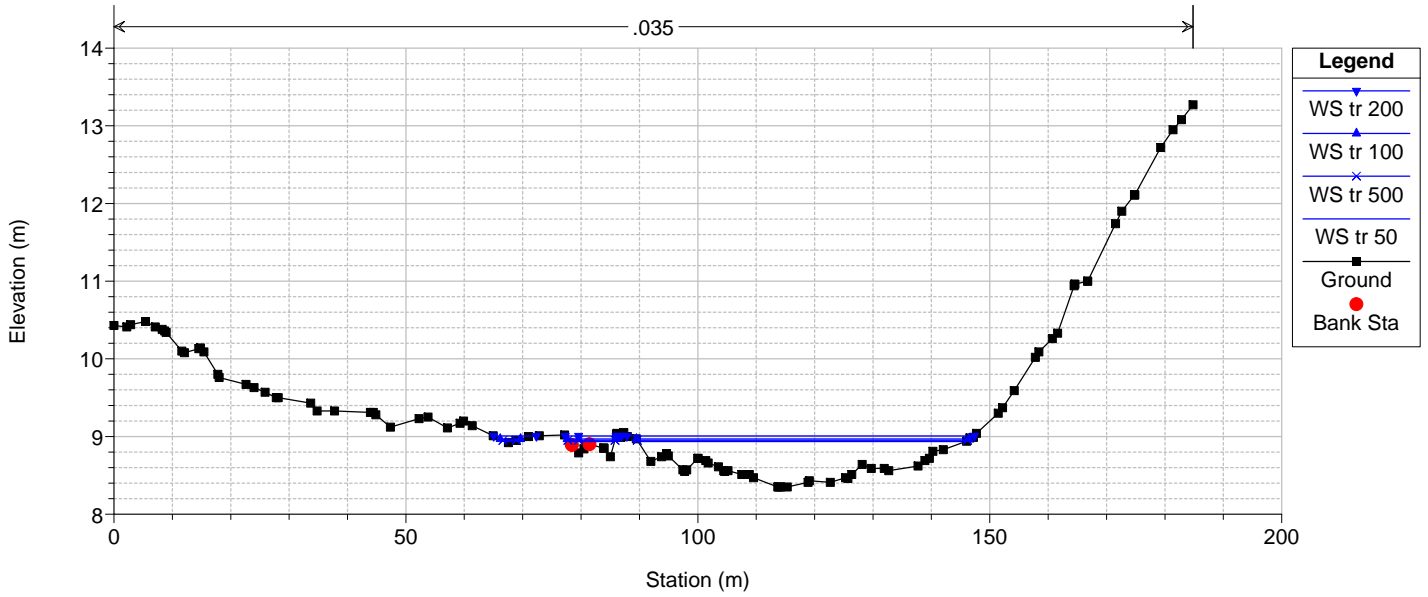
River = Lazzeretto Reach = asta RS = 1100 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

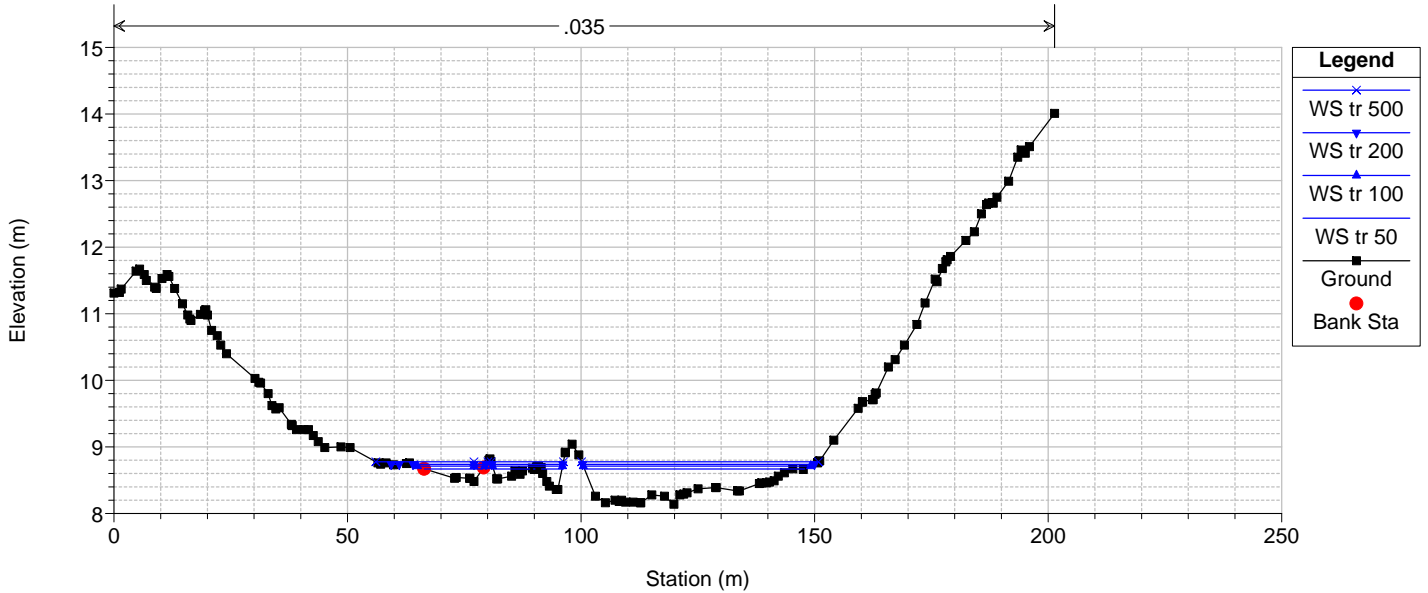
River = Lazzeretto Reach = asta RS = 1080 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

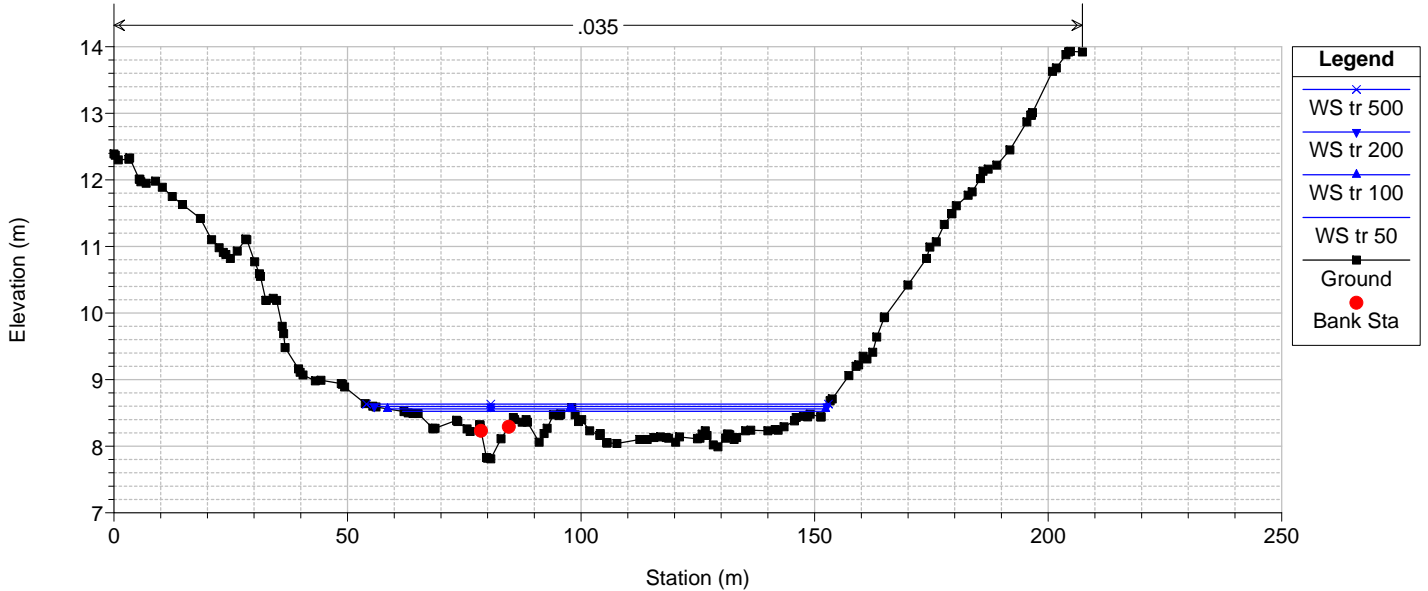
River = Lazzeretto Reach = asta RS = 1060 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

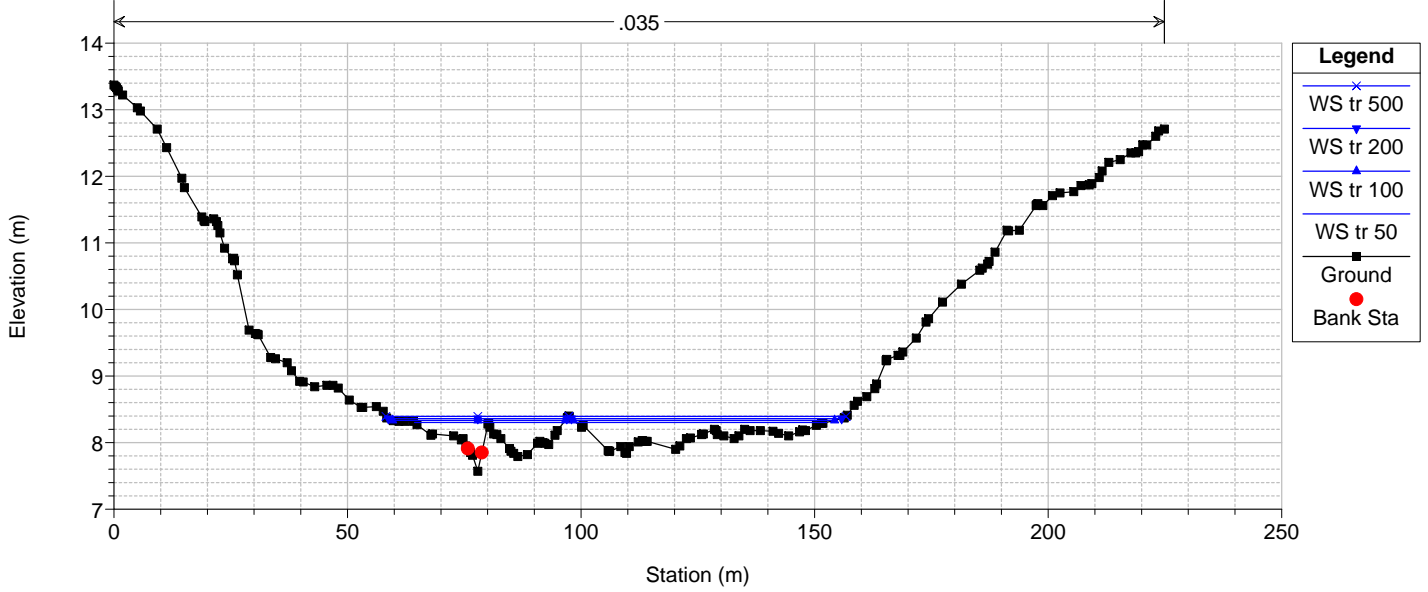
River = Lazzeretto Reach = asta RS = 1040 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

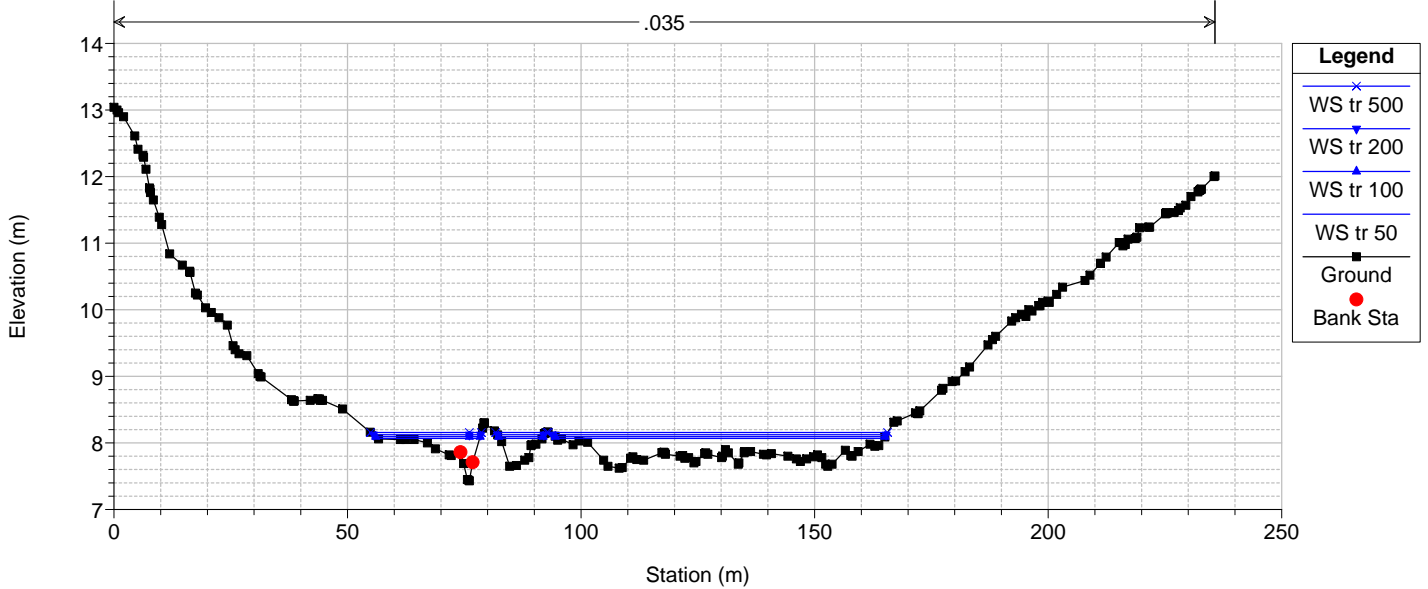
River = Lazzeretto Reach = asta RS = 1020 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

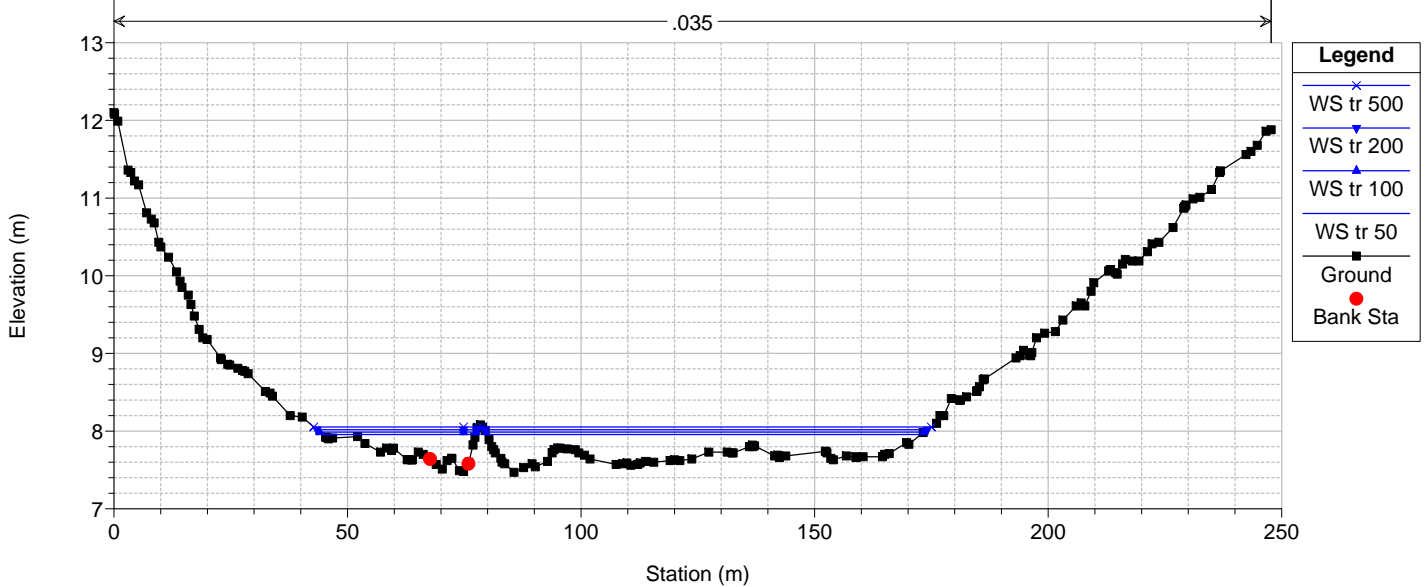
River = Lazzeretto Reach = asta RS = 1000 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

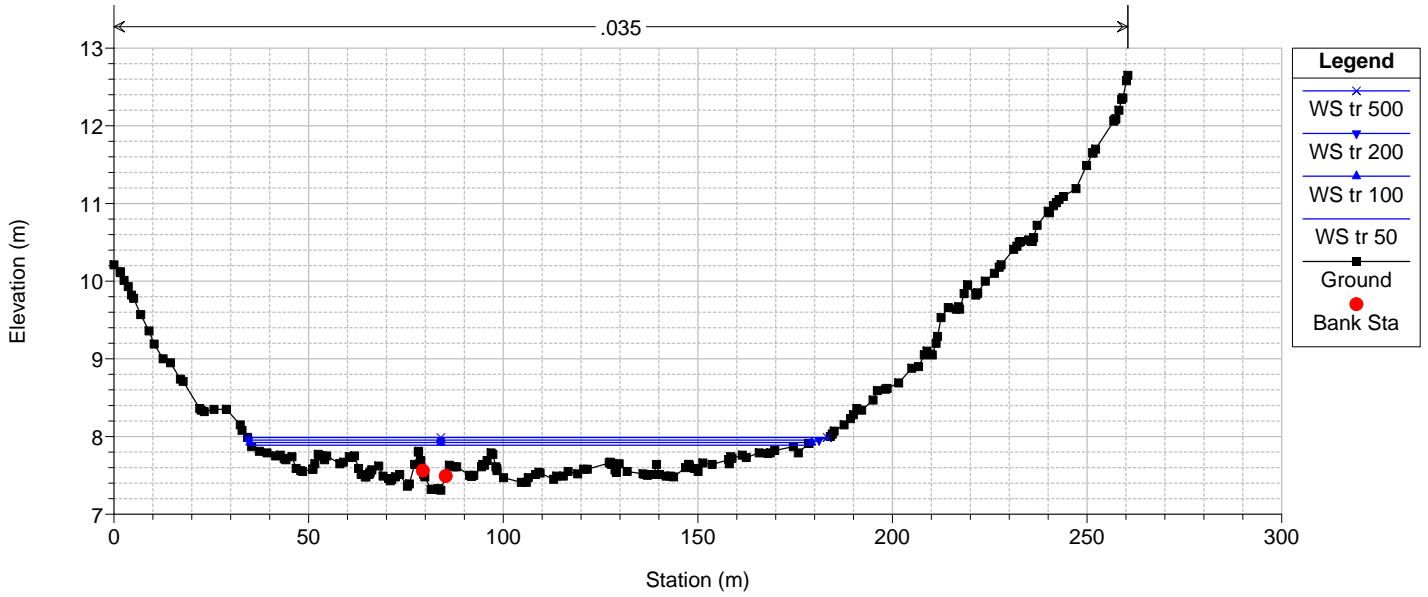
River = Lazzeretto Reach = asta RS = 980.0001 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

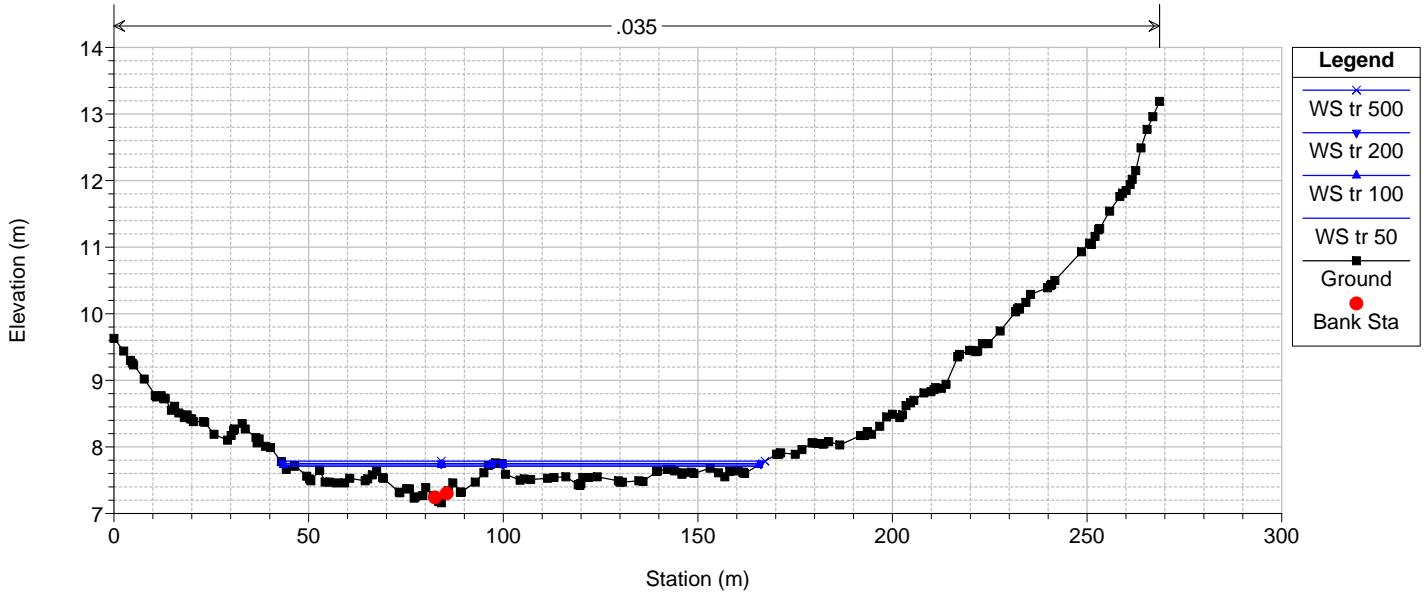
River = Lazzaretto Reach = asta RS = 960.0001 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

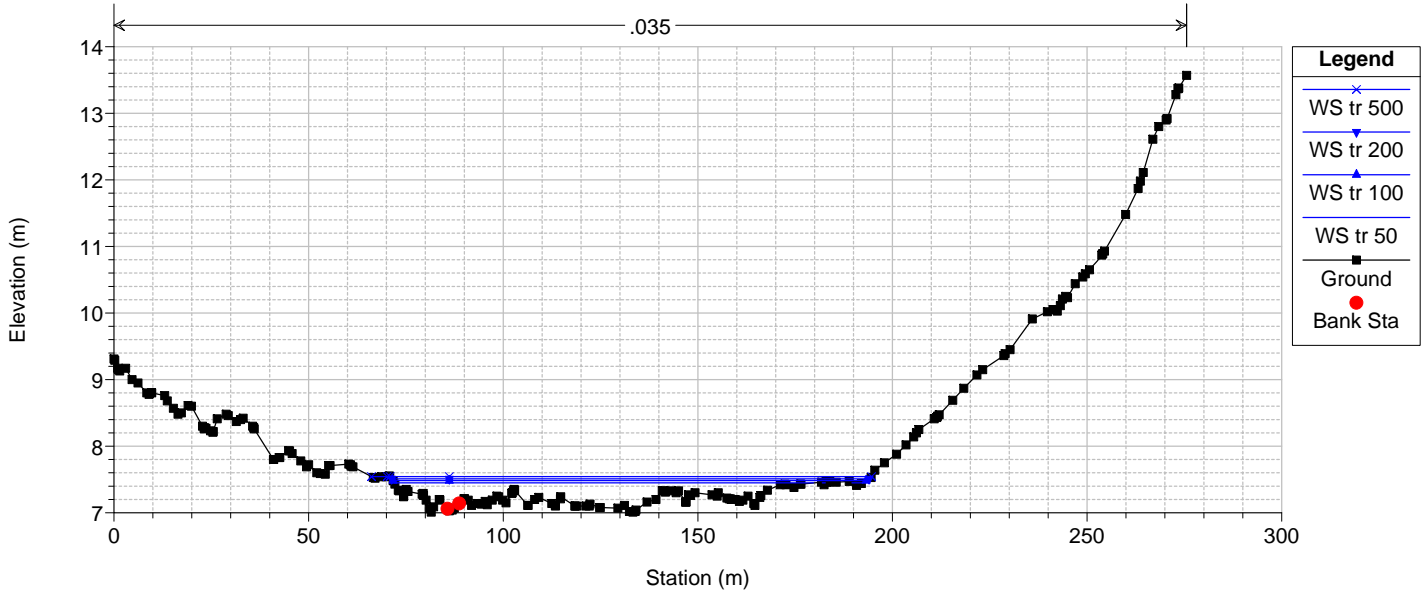
River = Lazzaretto Reach = asta RS = 940 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

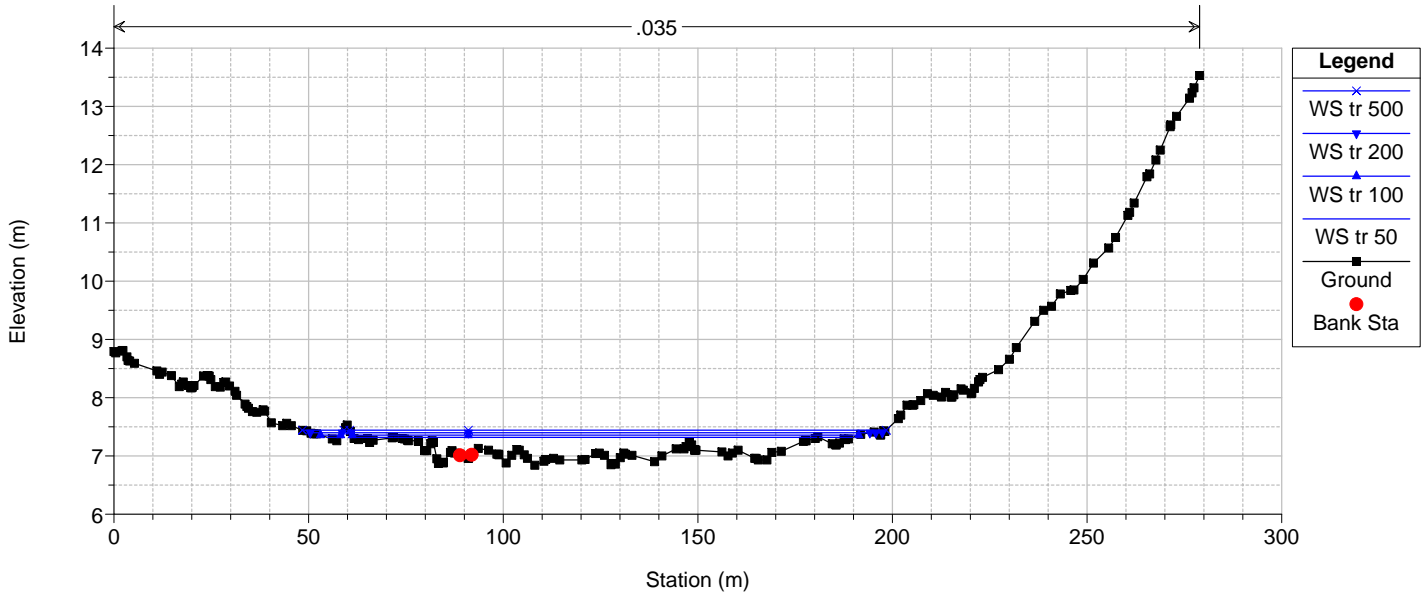
River = Lazzaretto Reach = asta RS = 920 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

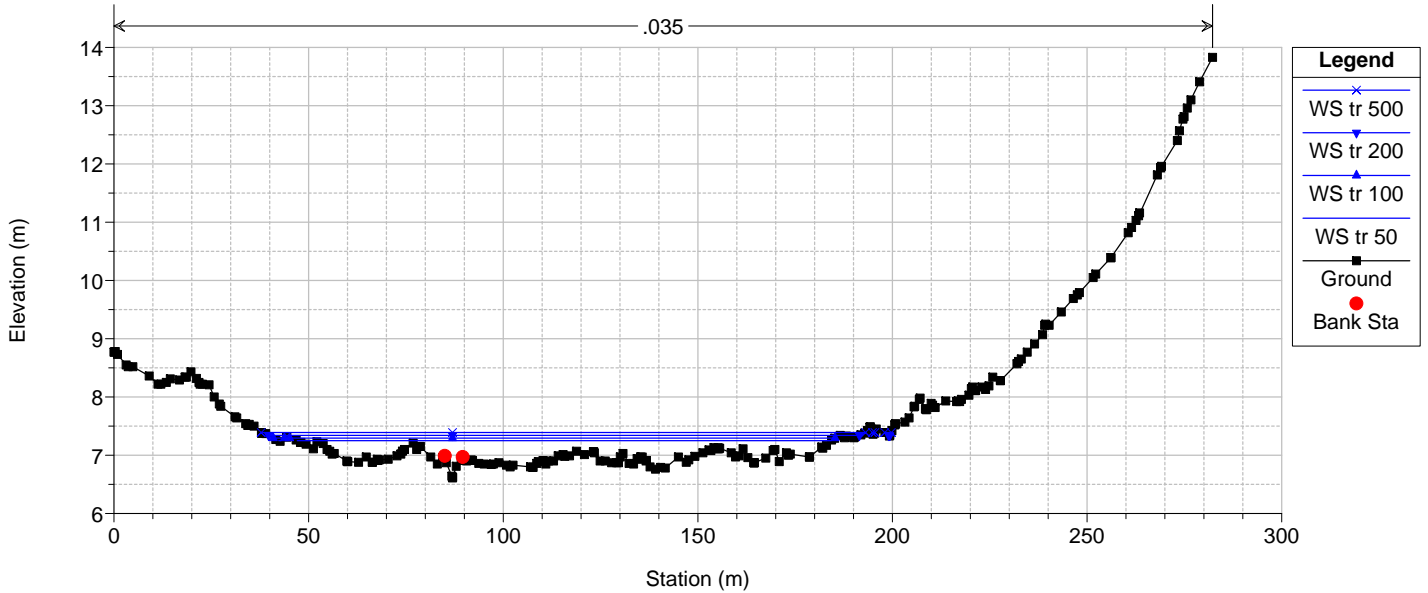
River = Lazzaretto Reach = asta RS = 900.0001 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

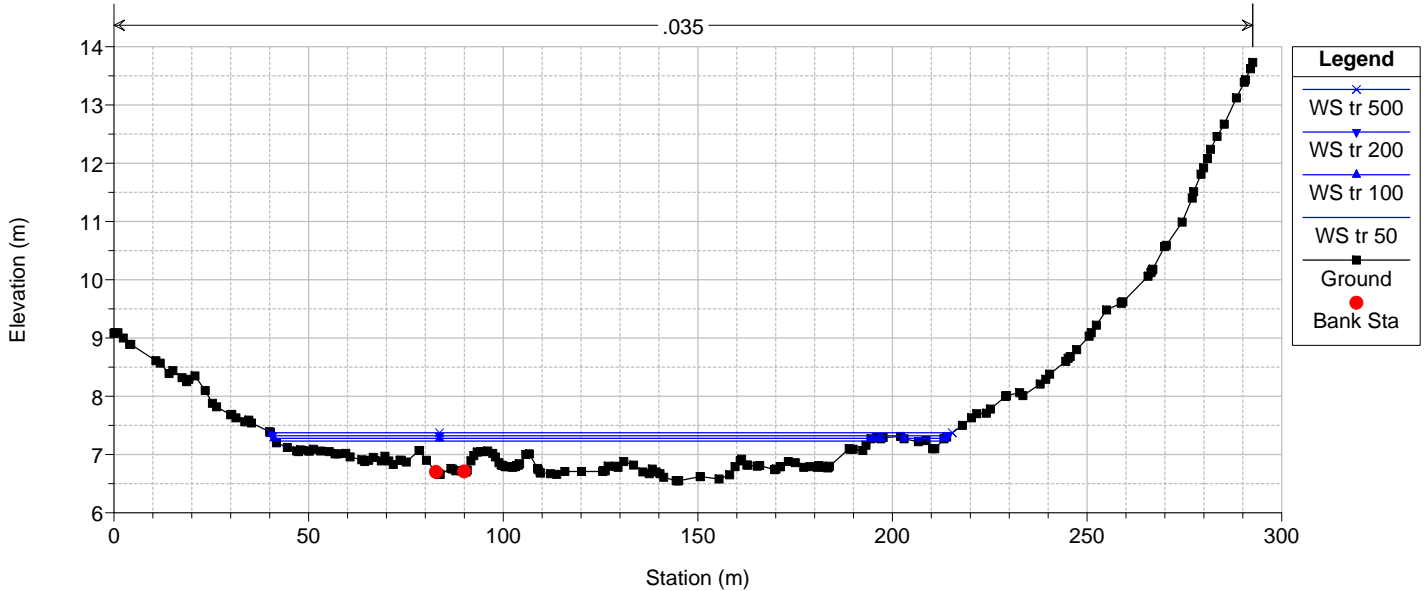
River = Lazzaretto Reach = asta RS = 880.0001 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

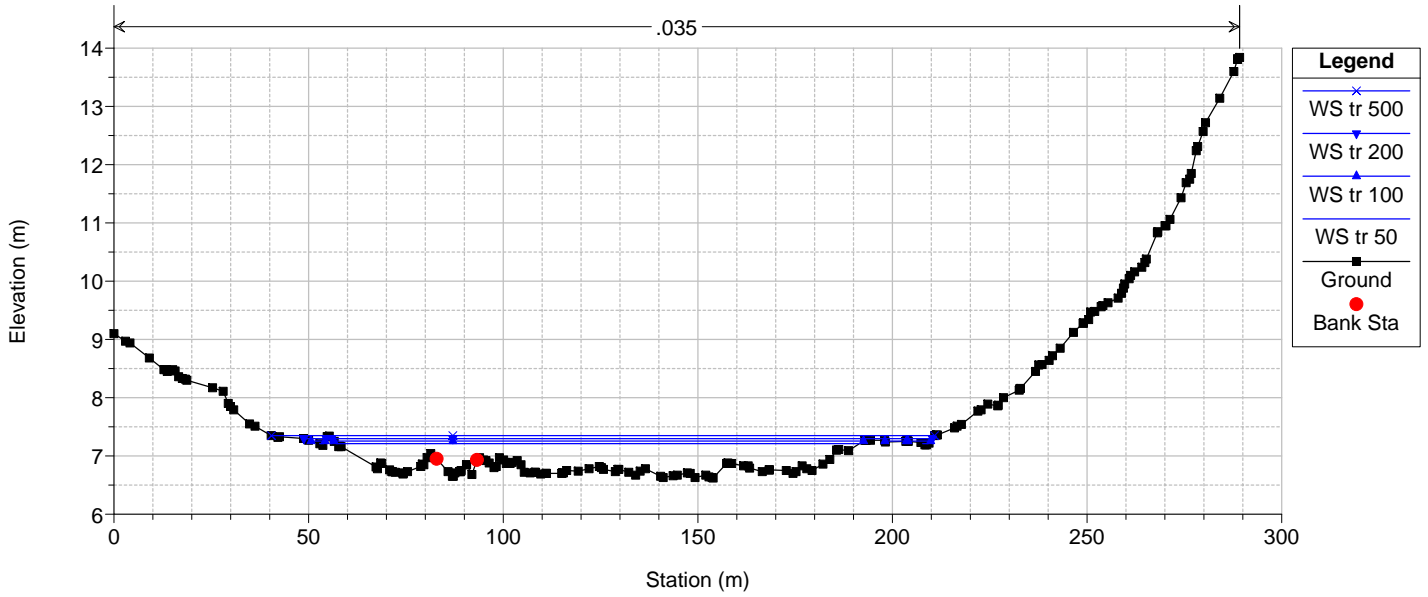
River = Lazzaretto Reach = asta RS = 860.0001 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

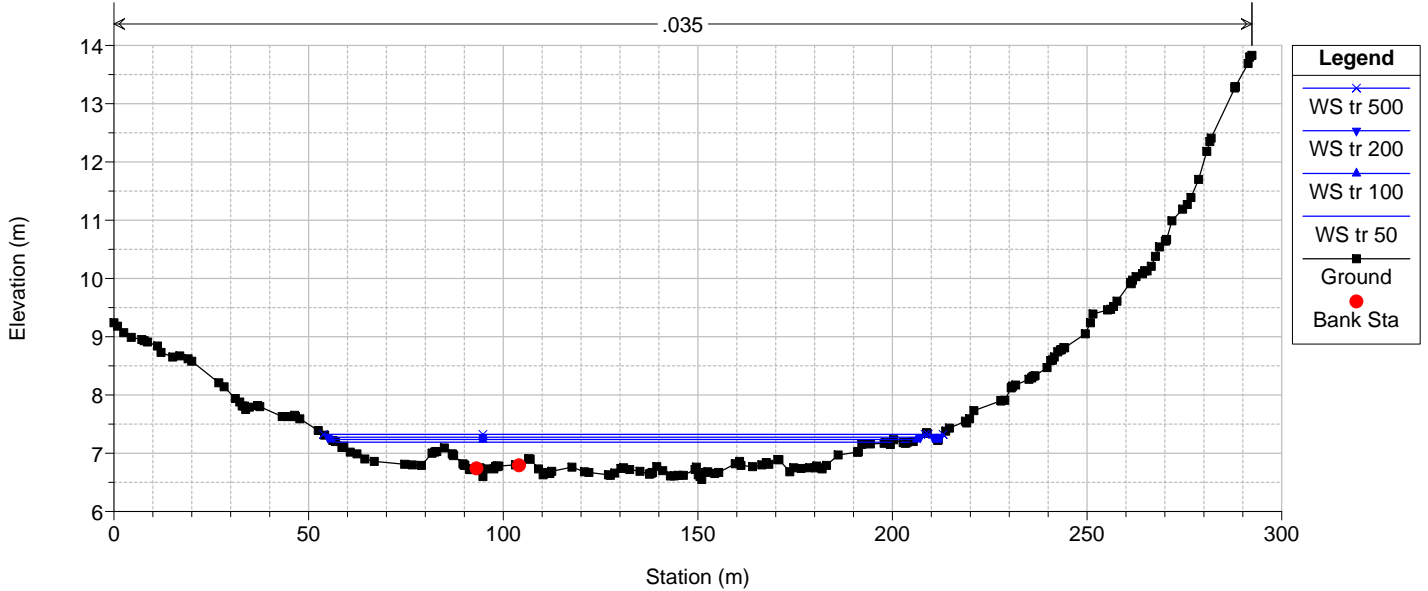
River = Lazzaretto Reach = asta RS = 839.9999 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

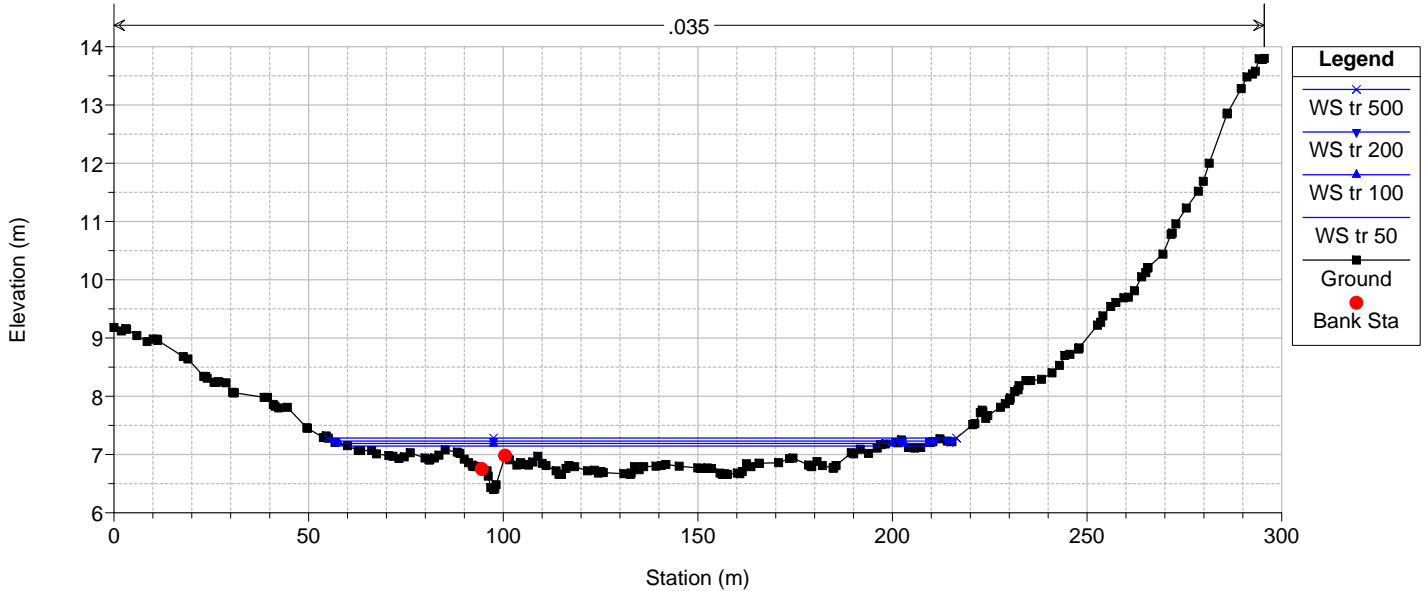
River = Lazzaretto Reach = asta RS = 820.0001 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

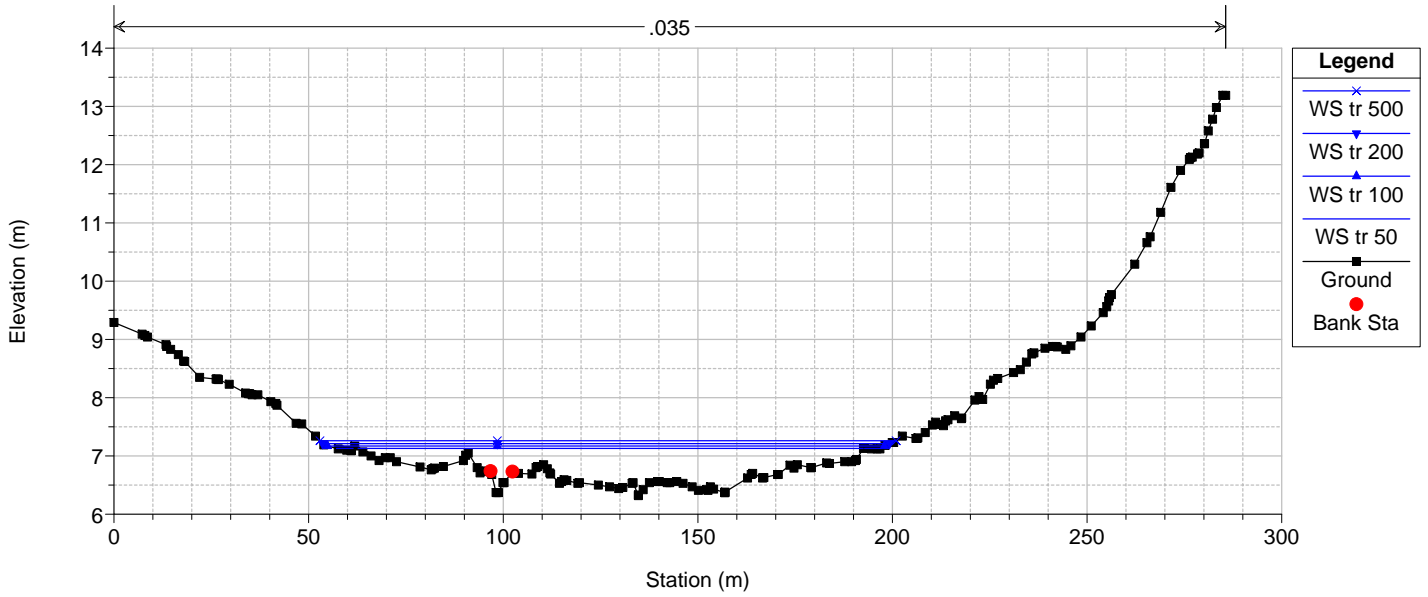
River = Lazzaretto Reach = asta RS = 800 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

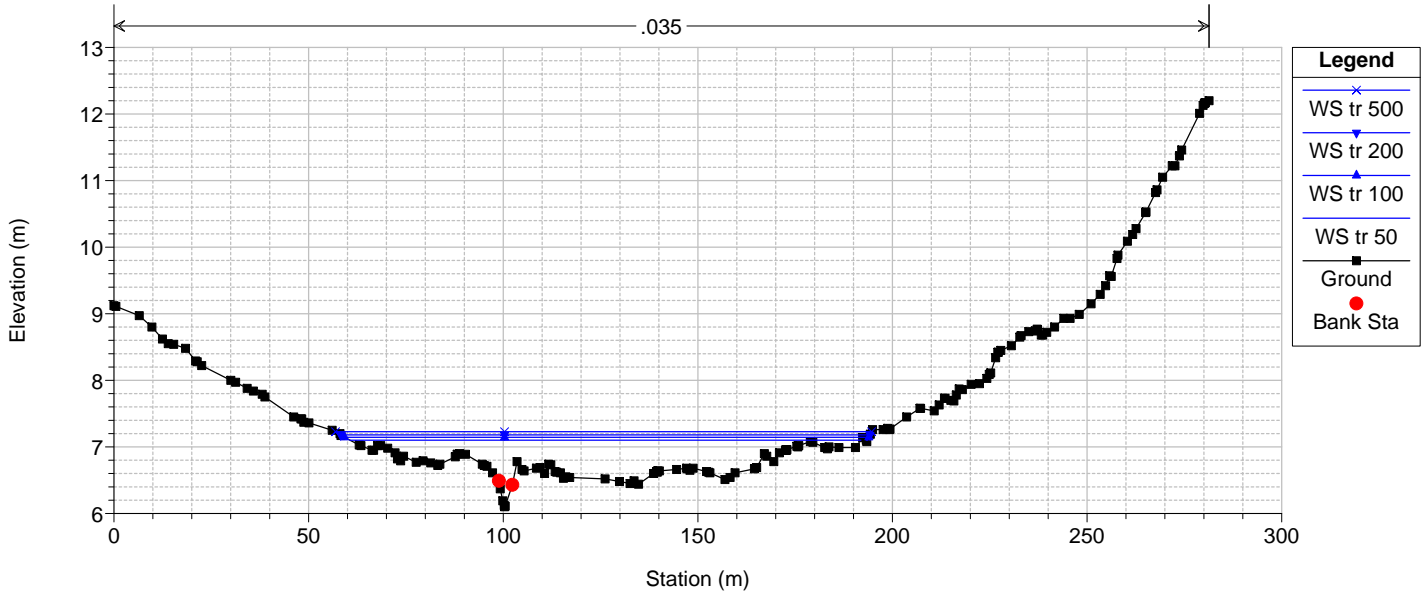
River = Lazzaretto Reach = asta RS = 780 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

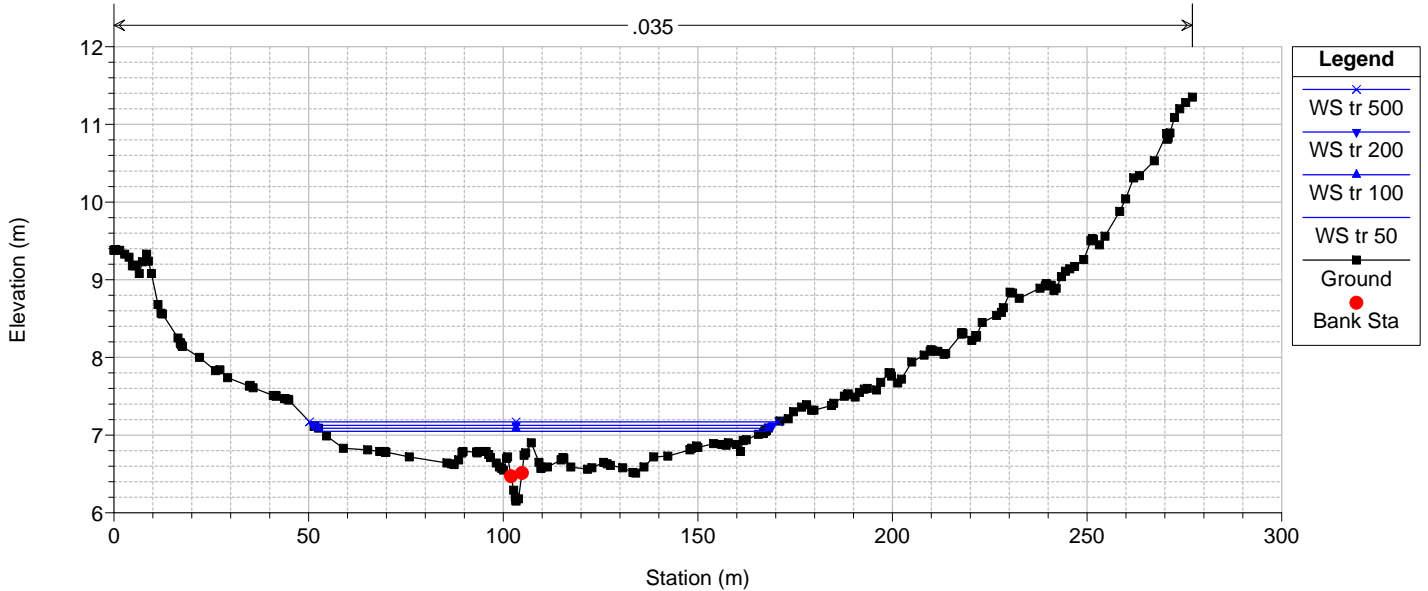
River = Lazzaretto Reach = asta RS = 759.9999 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

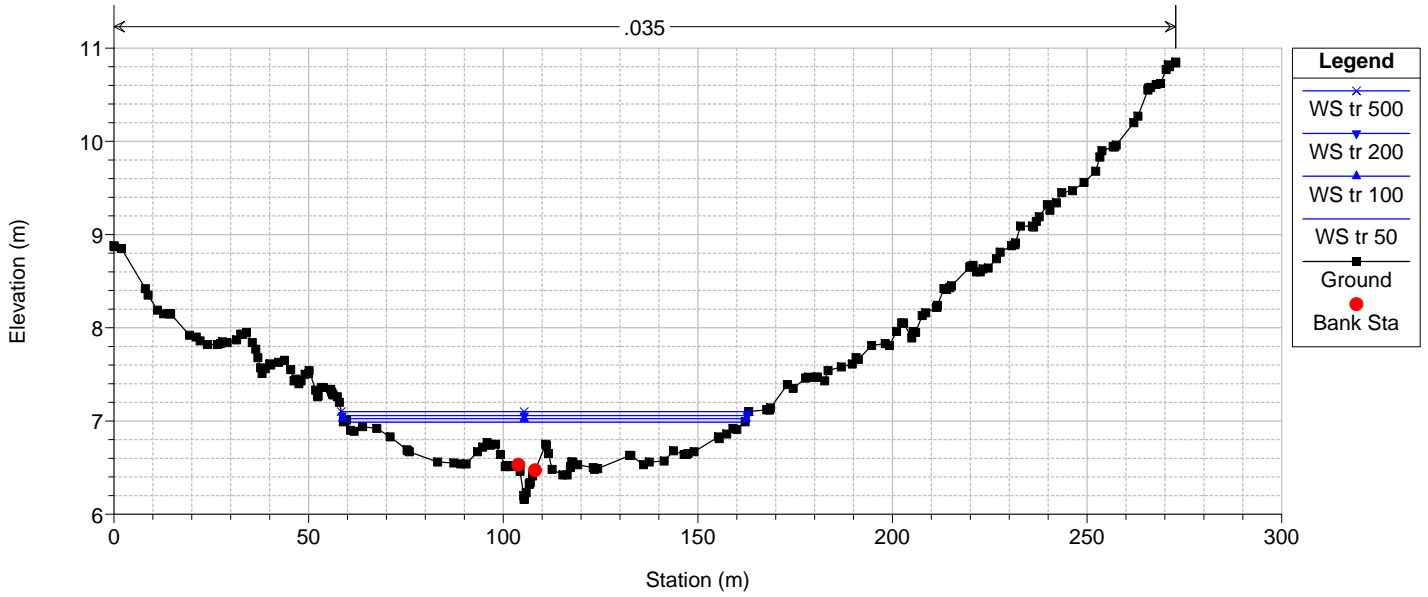
River = Lazzaretto Reach = asta RS = 740 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

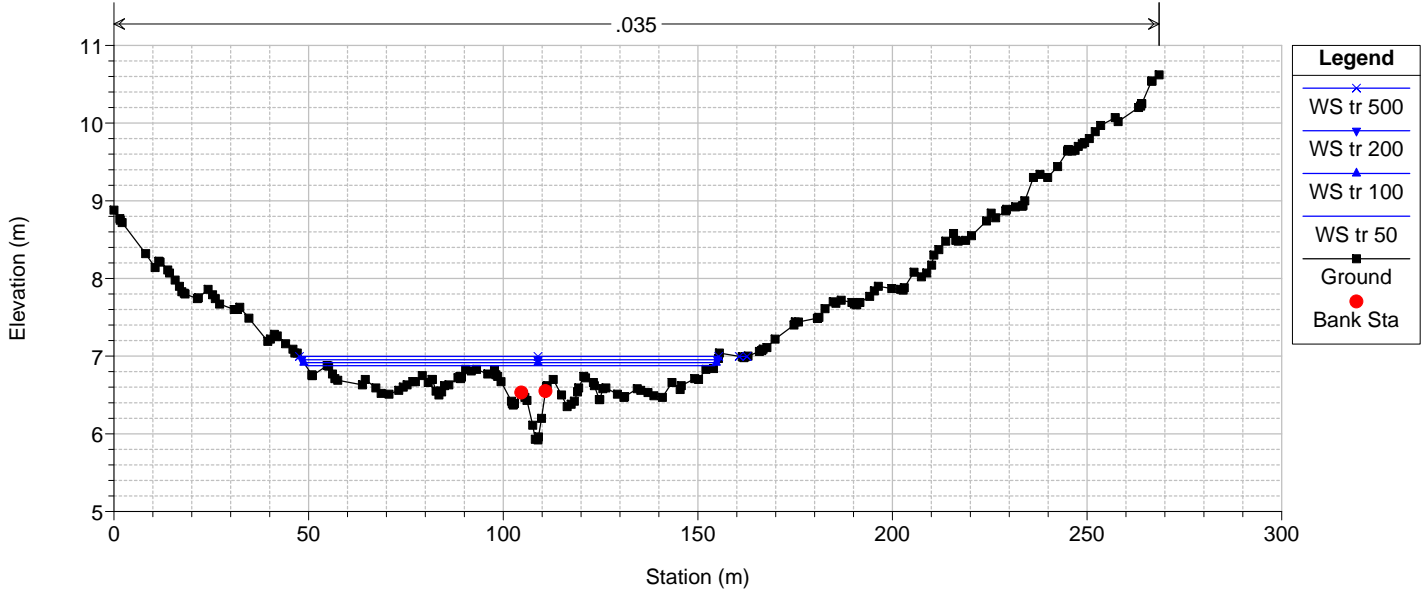
River = Lazzaretto Reach = asta RS = 720.0001 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

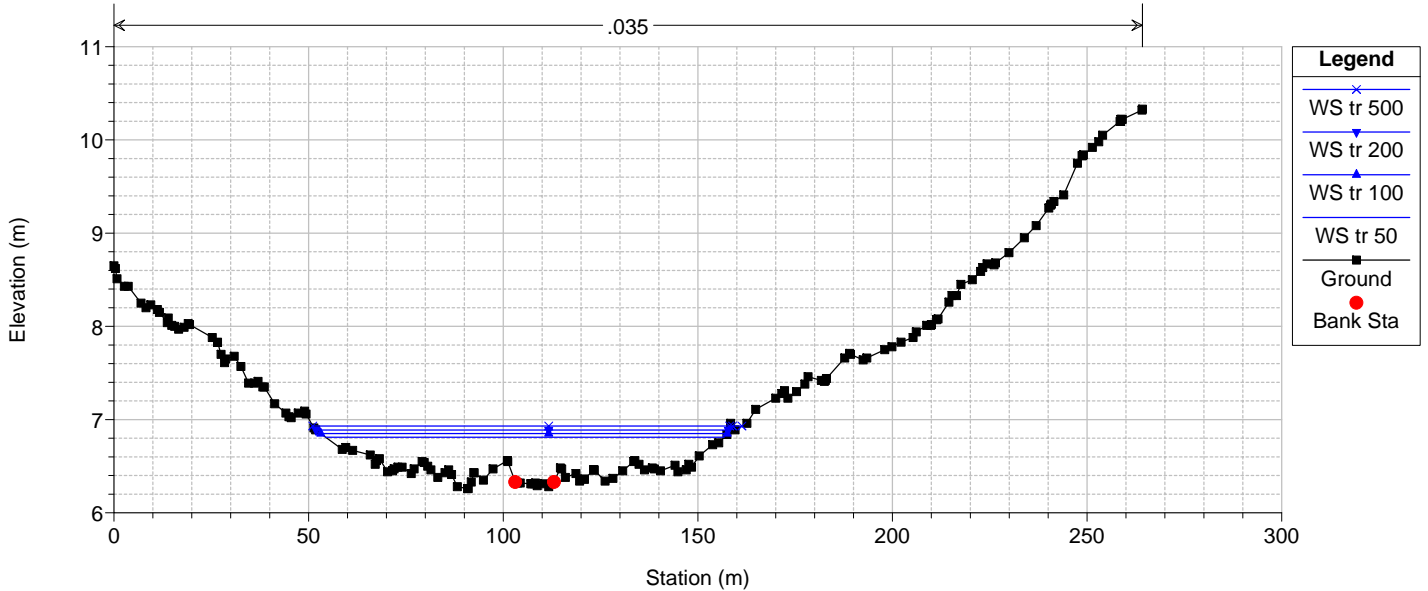
River = Lazzaretto Reach = asta RS = 700.0001 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

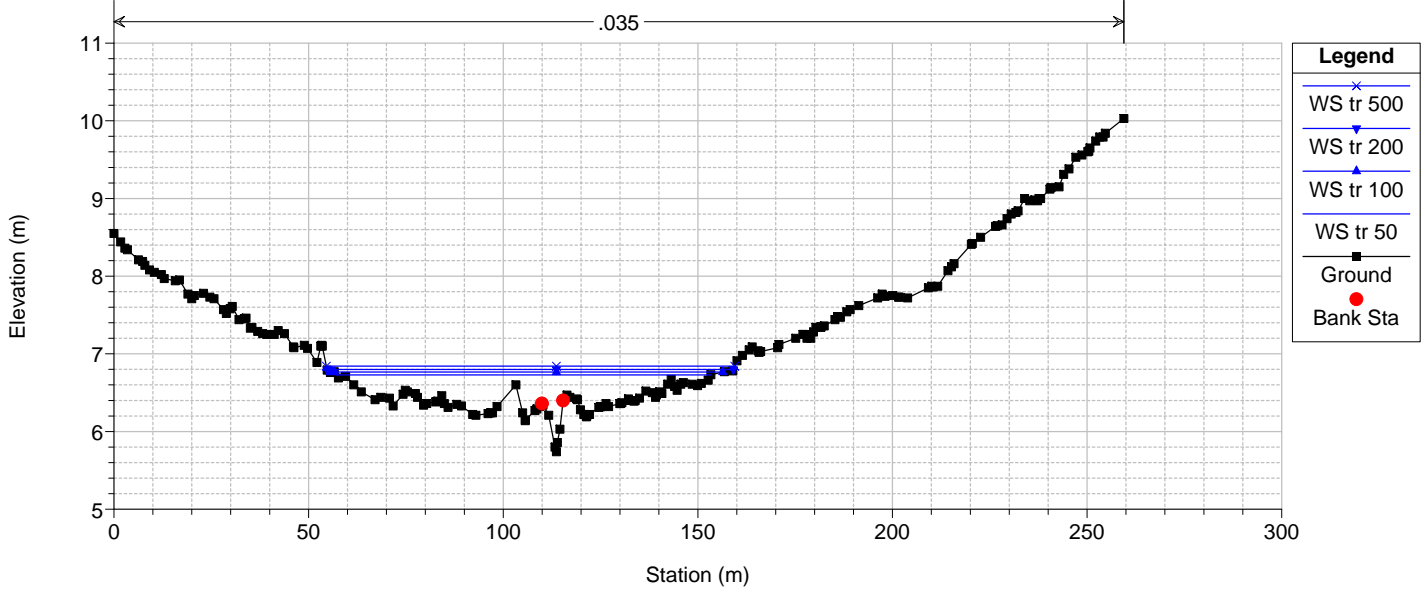
River = Lazzaretto Reach = asta RS = 680.0001 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

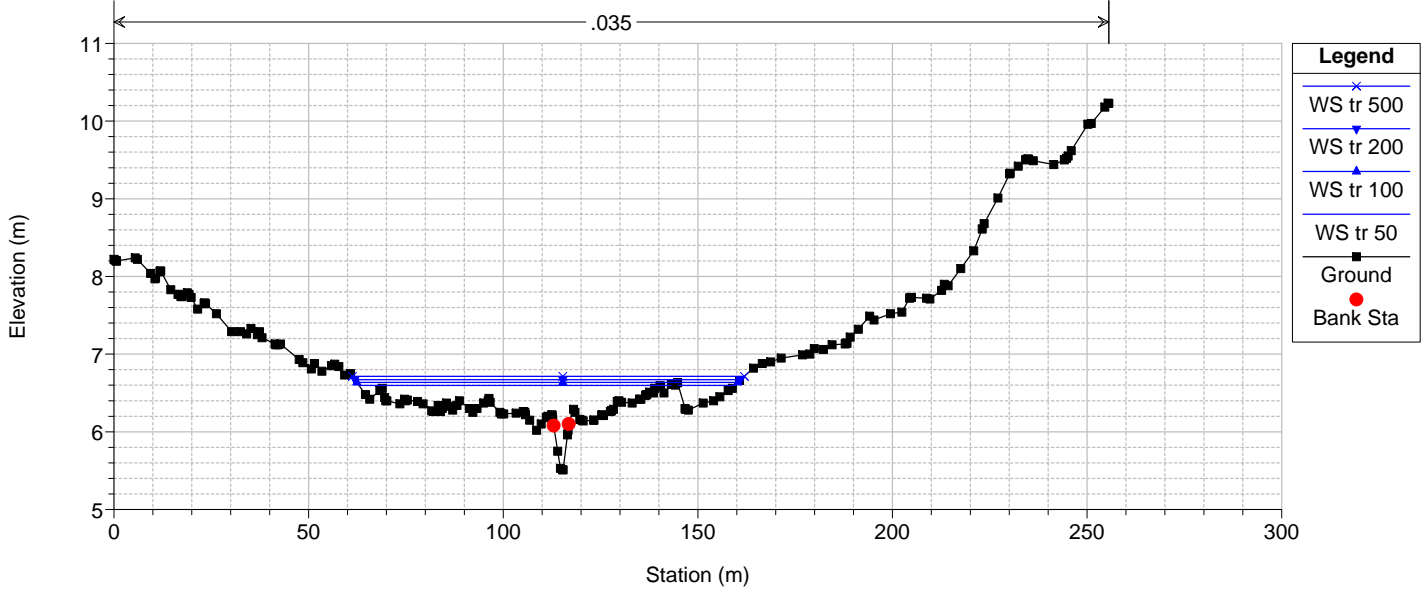
River = Lazzeretto Reach = asta RS = 660 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

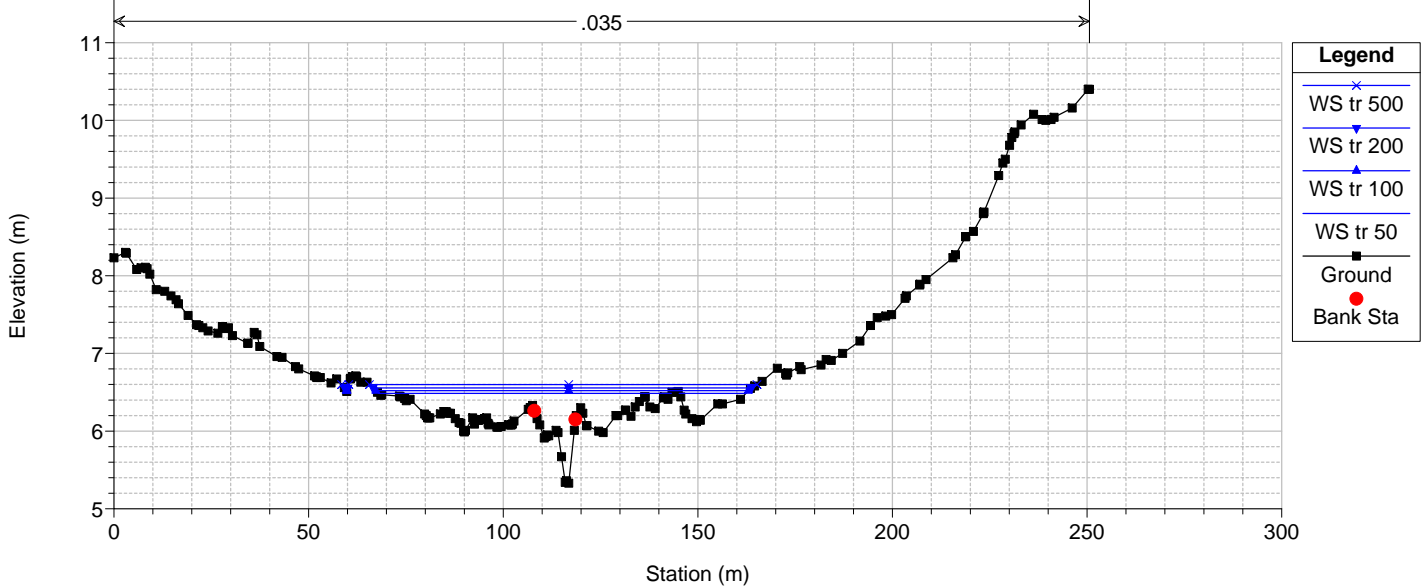
River = Lazzeretto Reach = asta RS = 640 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

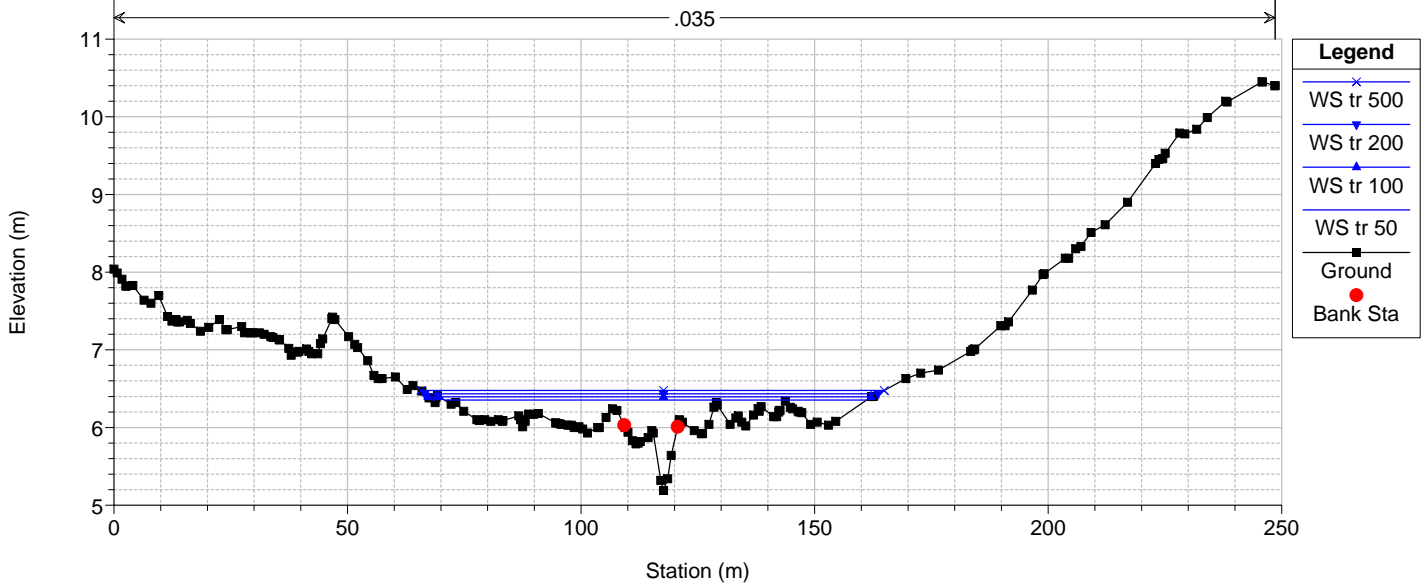
River = Lazzeretto Reach = asta RS = 620 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

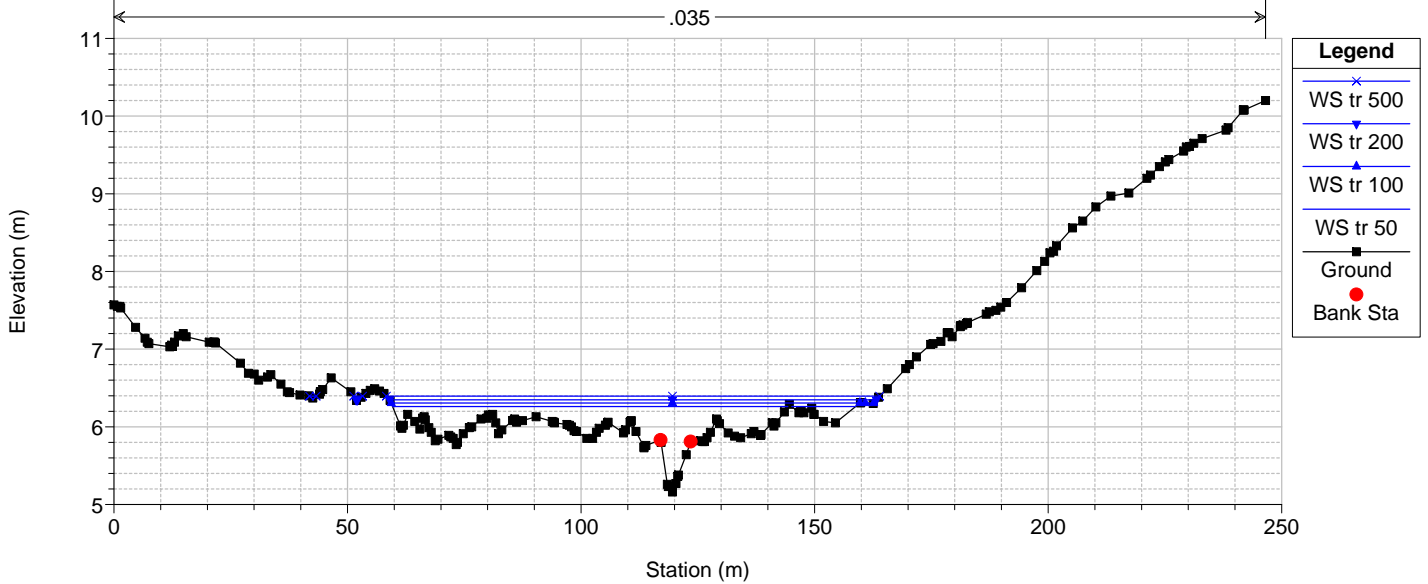
River = Lazzaretto Reach = asta RS = 600 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

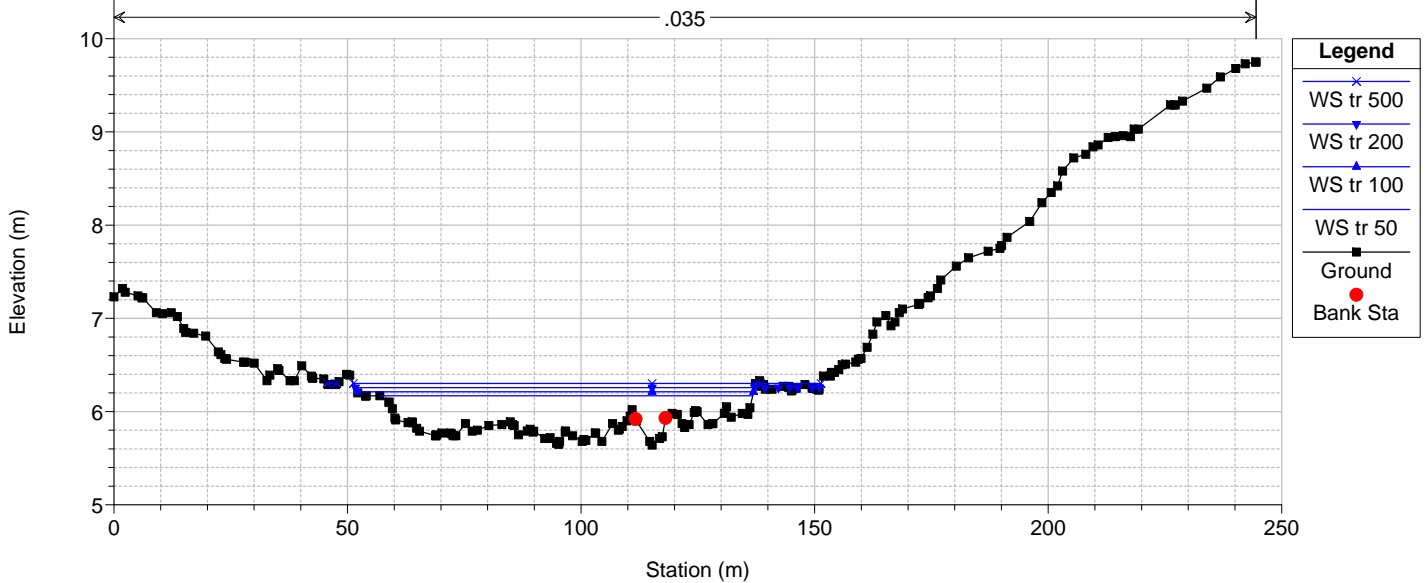
River = Lazzaretto Reach = asta RS = 580 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

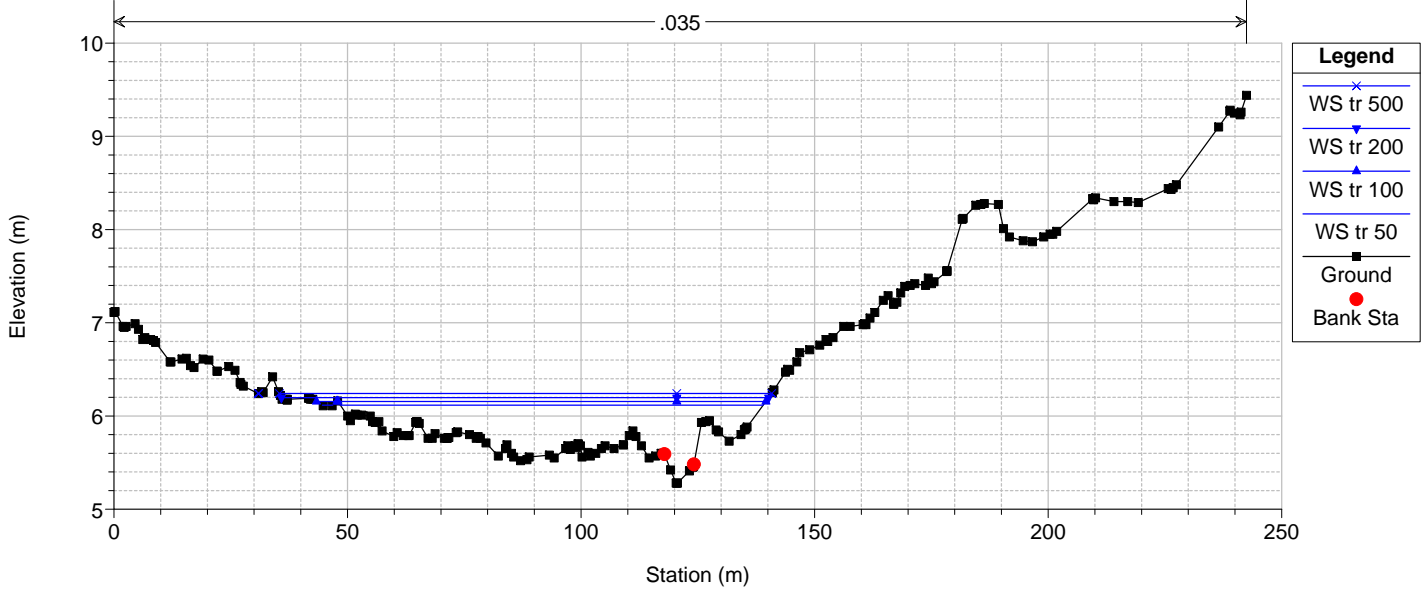
River = Lazzaretto Reach = asta RS = 560 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

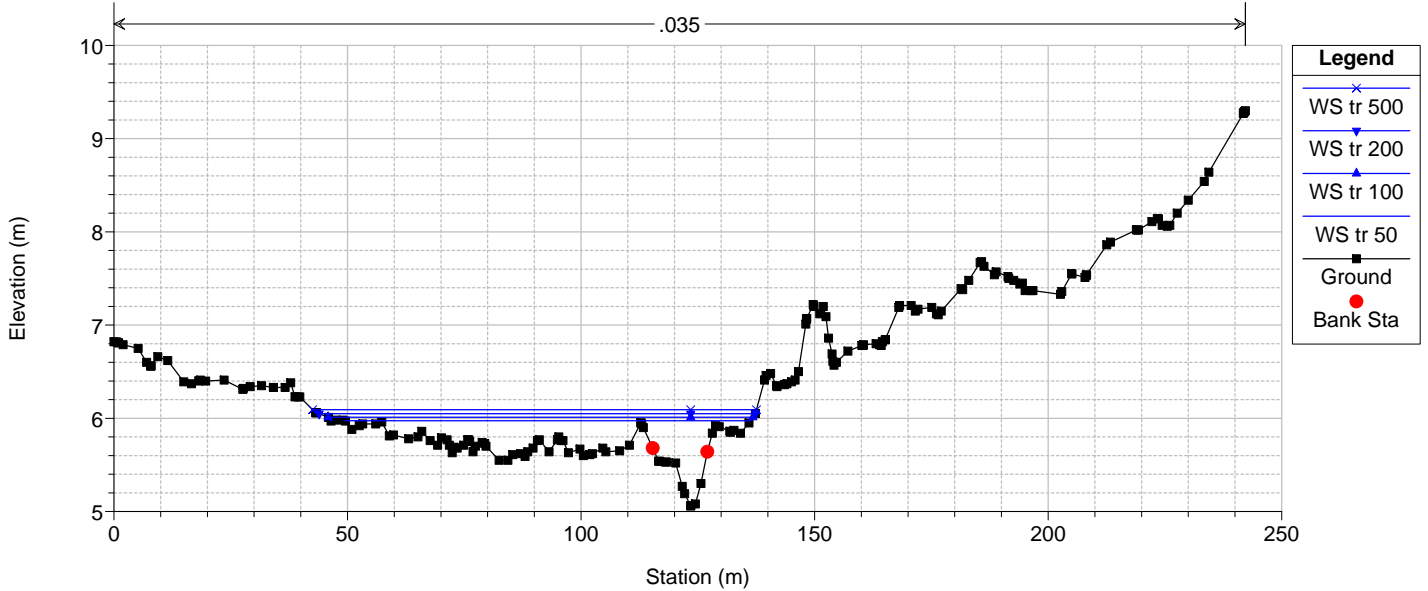
River = Lazzaretto Reach = asta RS = 540 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

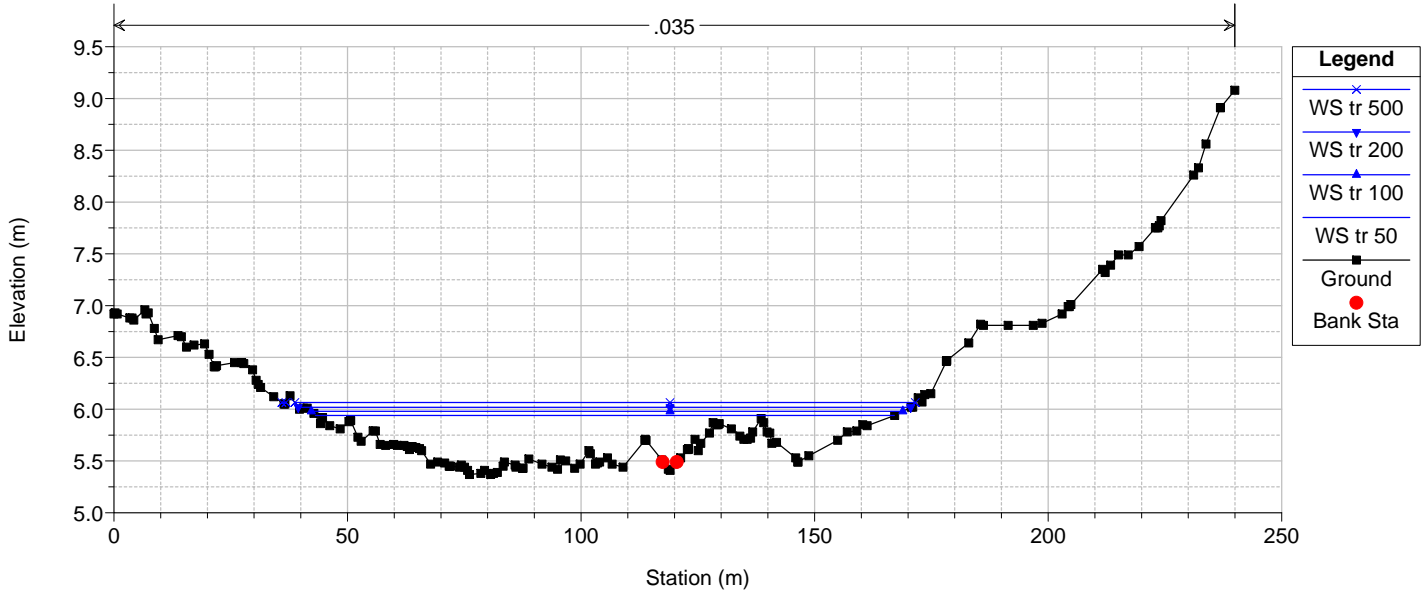
River = Lazzaretto Reach = asta RS = 520 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

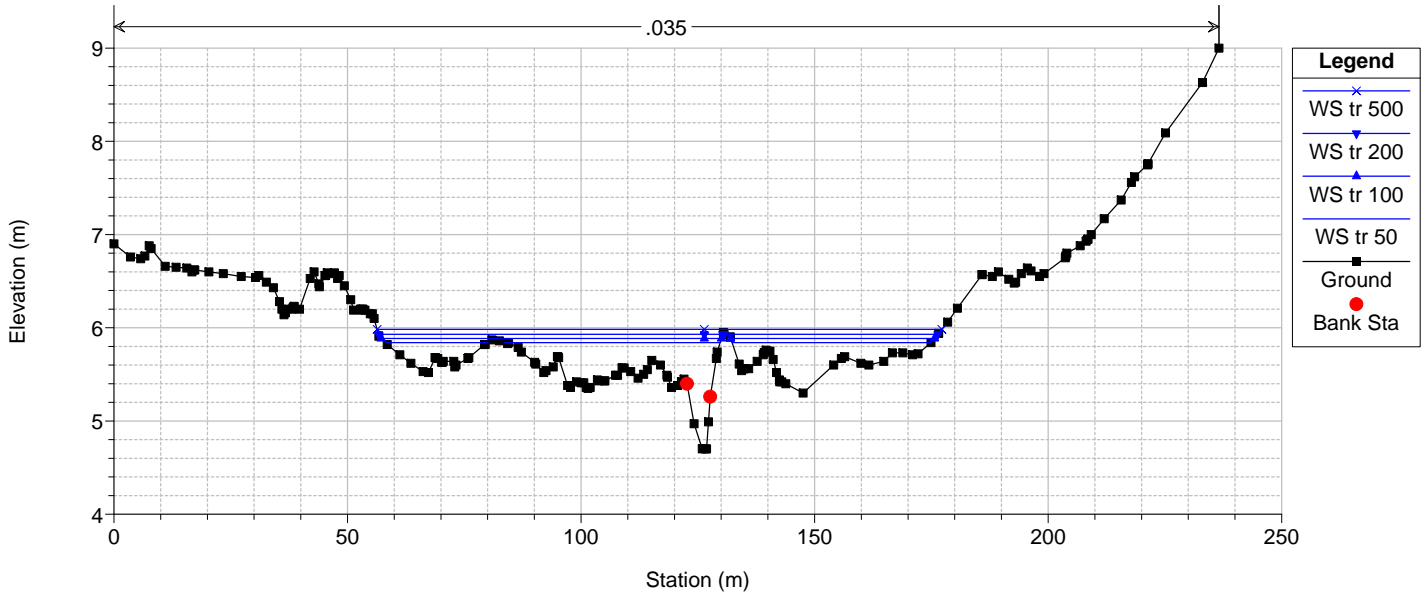
River = Lazzaretto Reach = asta RS = 500 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

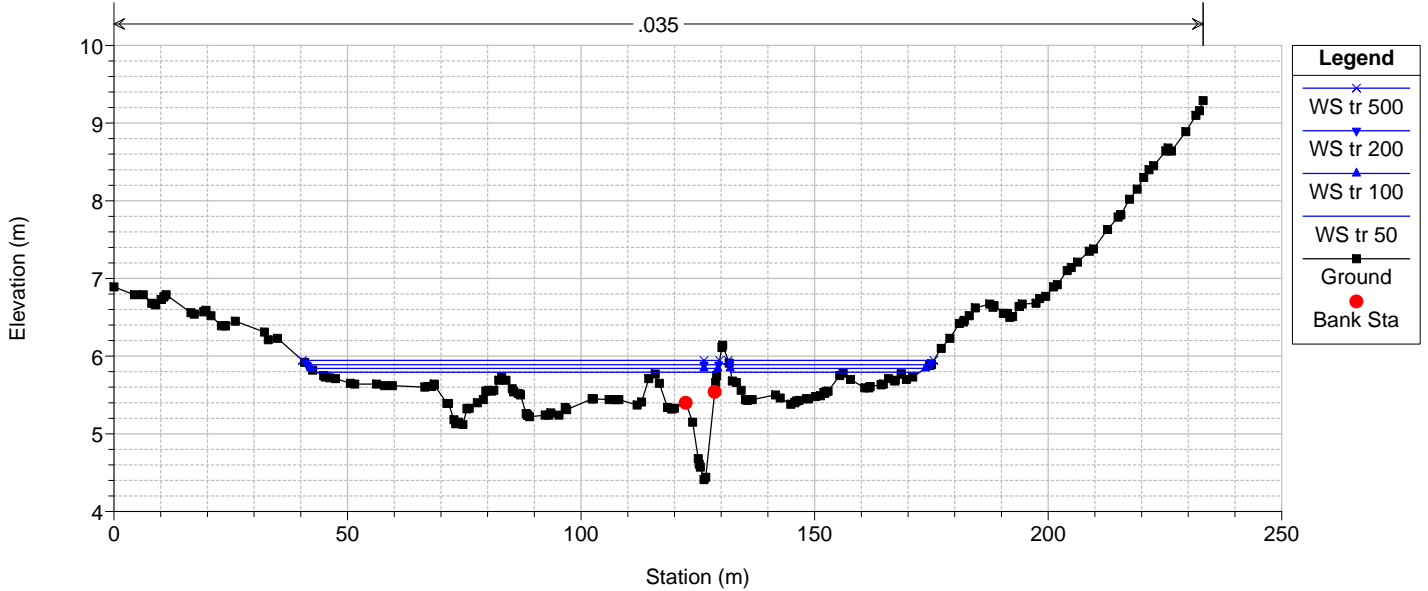
River = Lazzeretto Reach = asta RS = 480 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

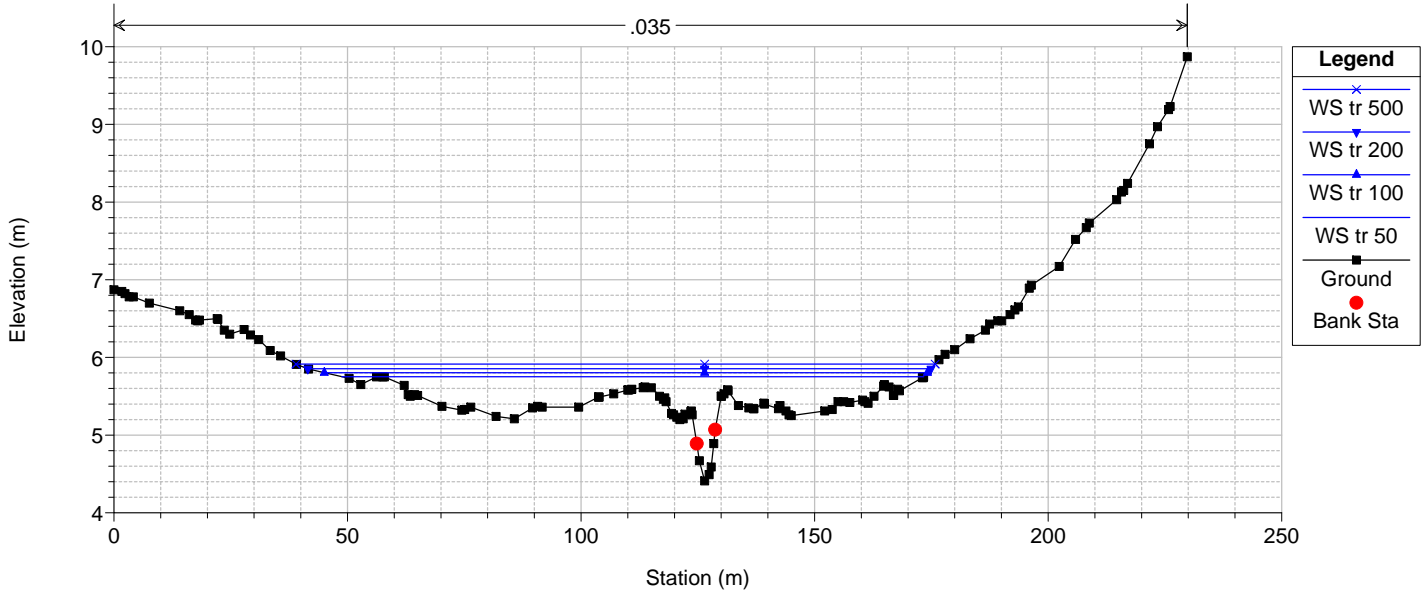
River = Lazzeretto Reach = asta RS = 460 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

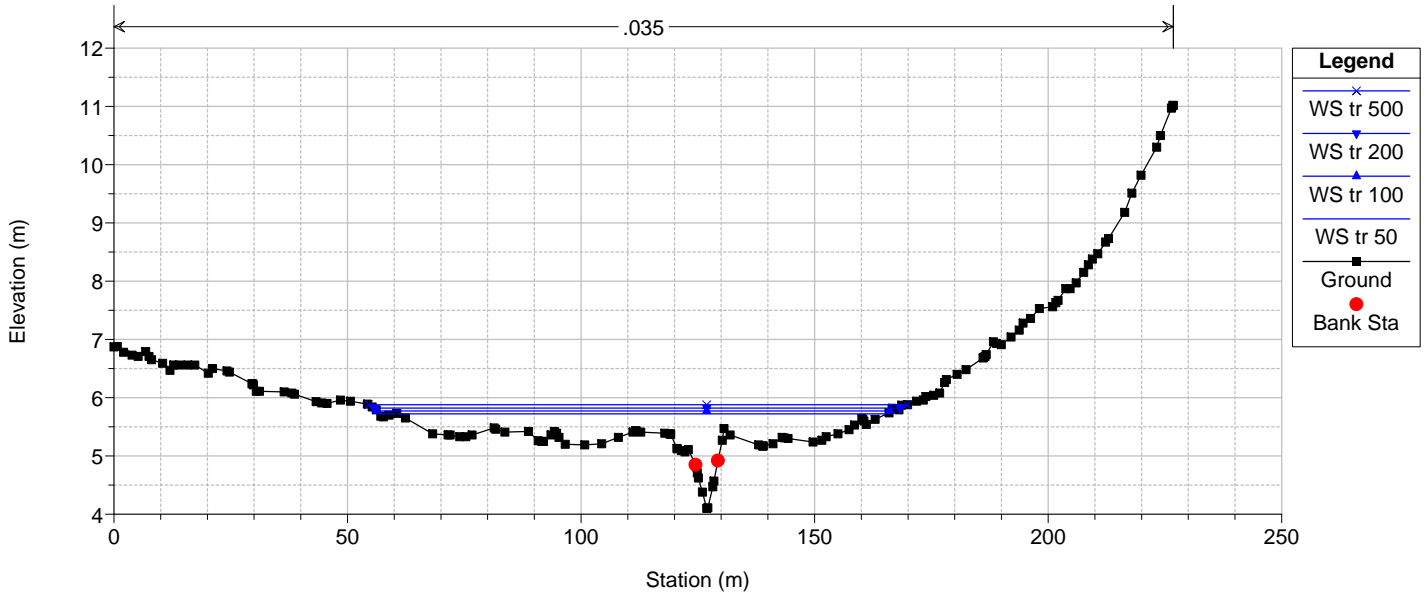
River = Lazzeretto Reach = asta RS = 440 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

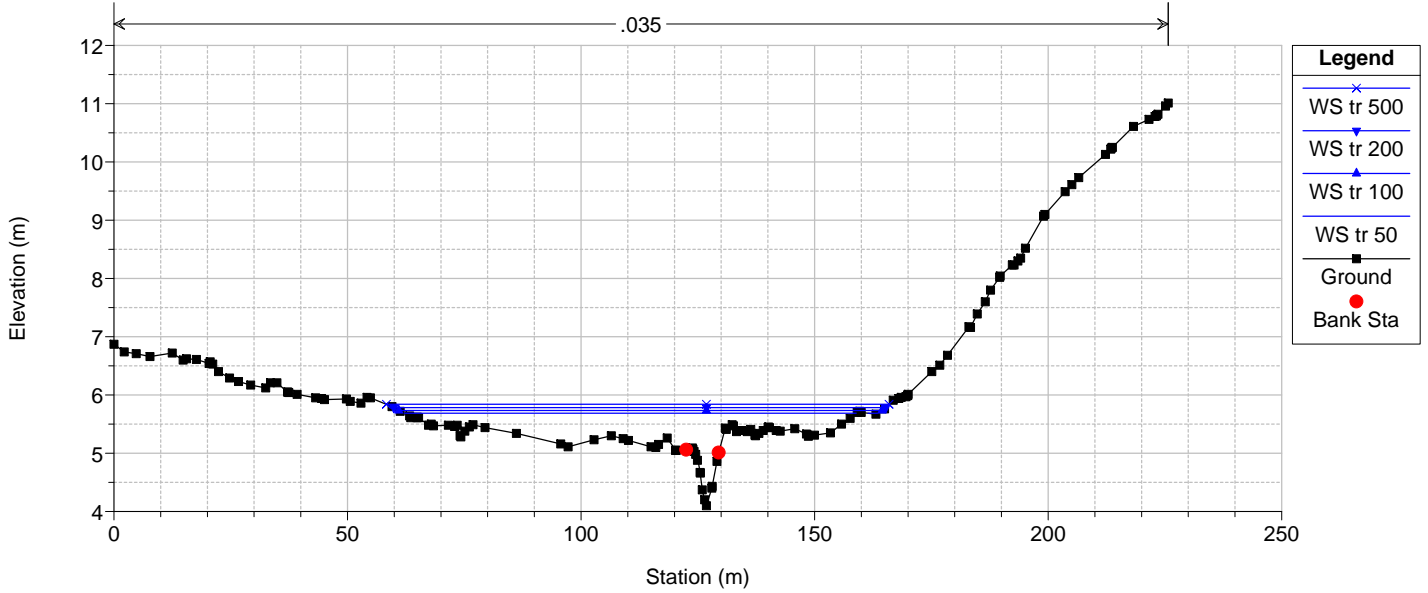
River = Lazzaretto Reach = asta RS = 420 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

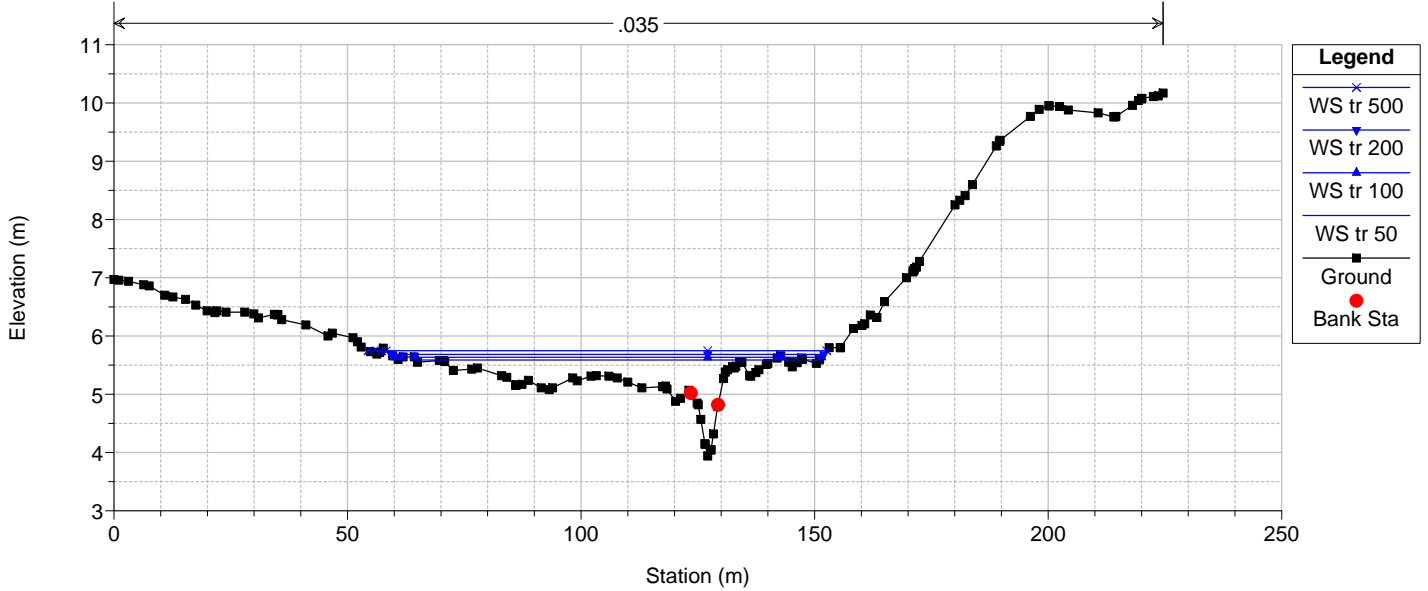
River = Lazzaretto Reach = asta RS = 400.0001 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

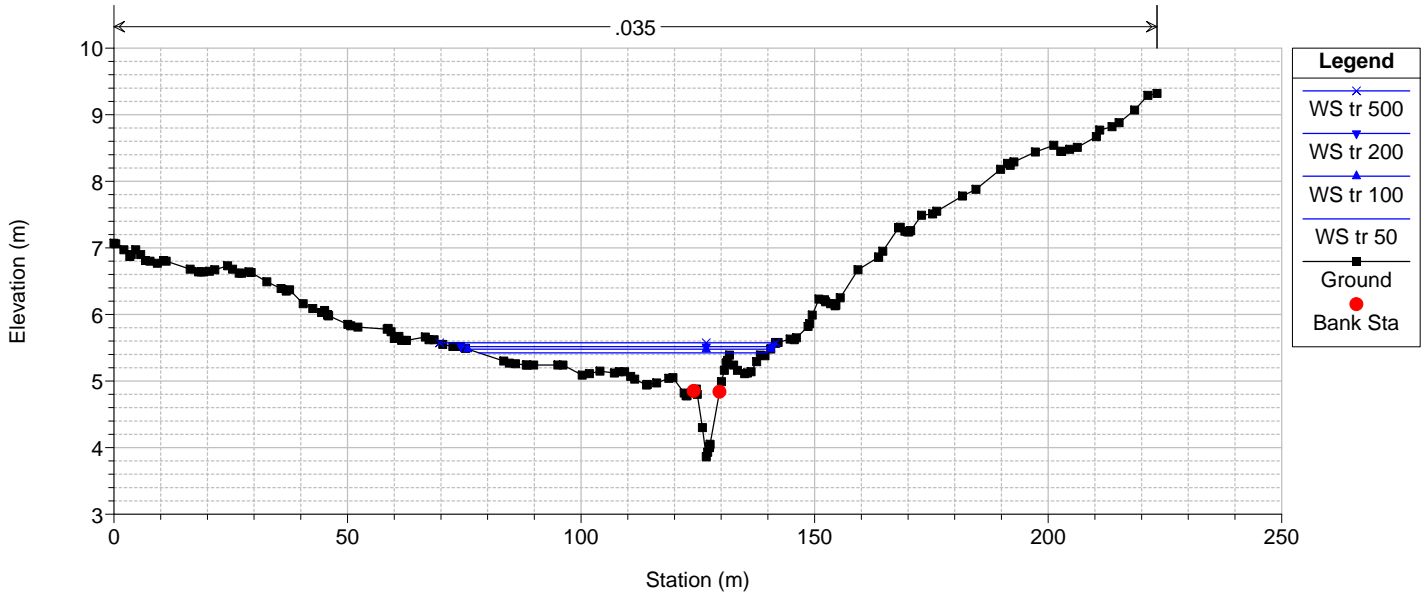
River = Lazzaretto Reach = asta RS = 380 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

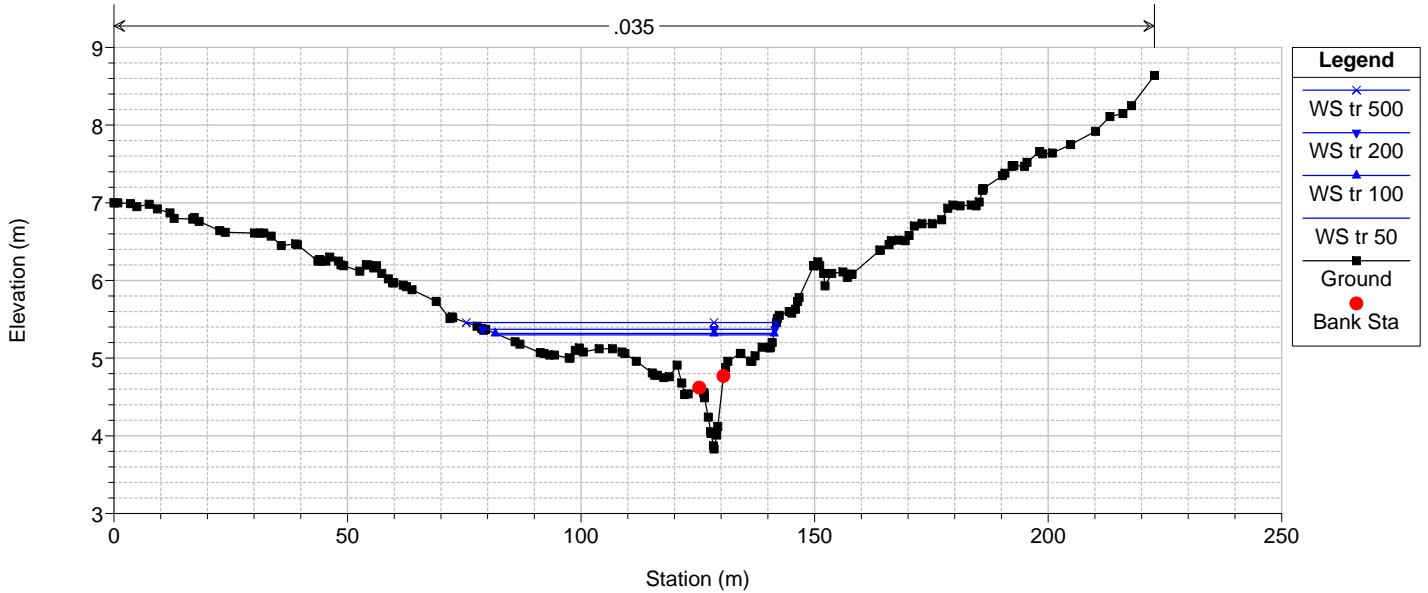
River = Lazzaretto Reach = asta RS = 360 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

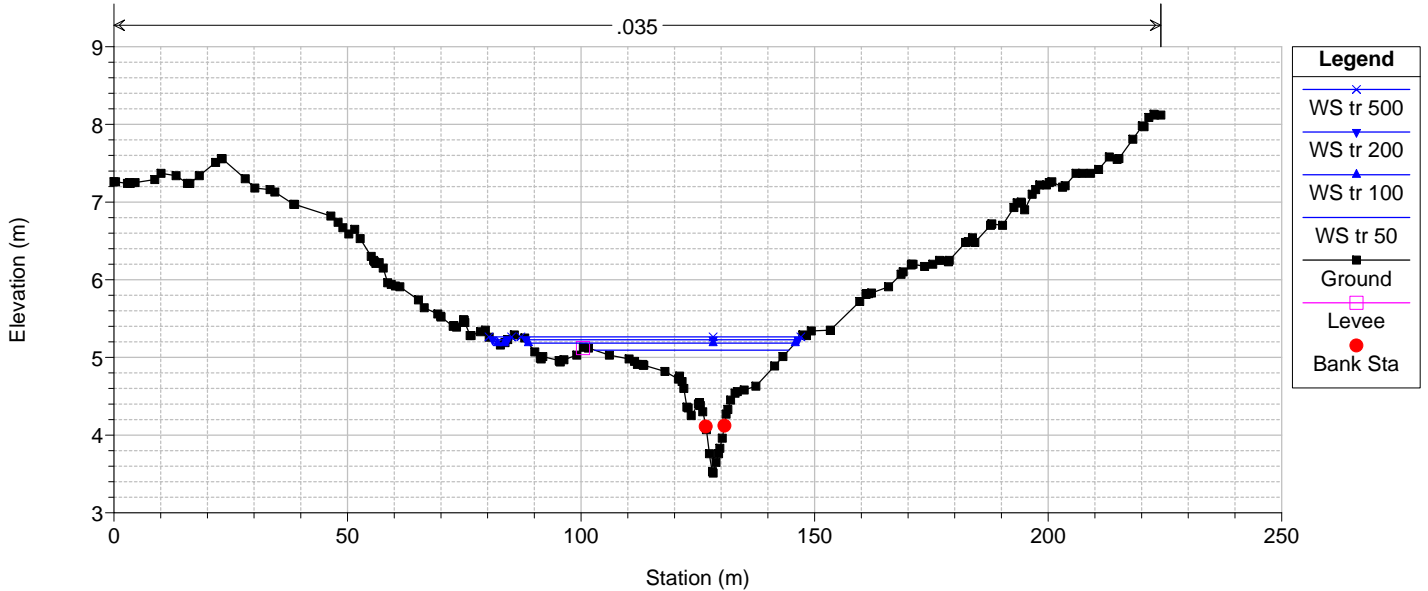
River = Lazzaretto Reach = asta RS = 340 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

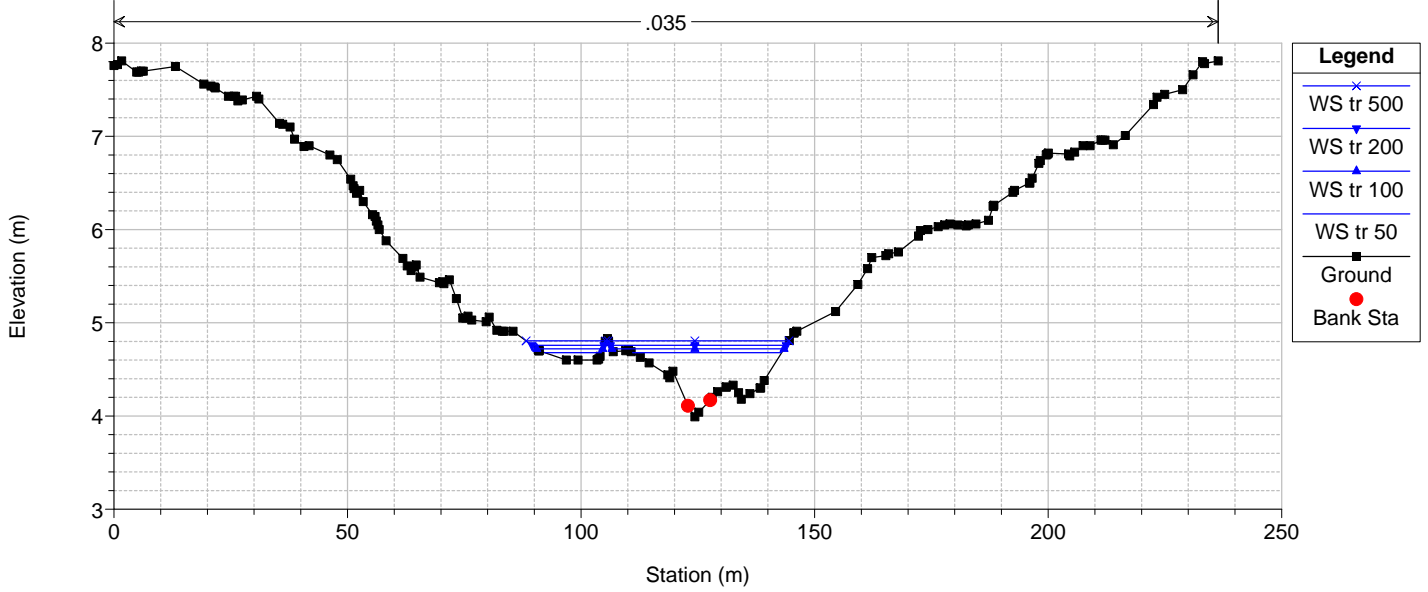
River = Lazzaretto Reach = asta RS = 320.0001 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

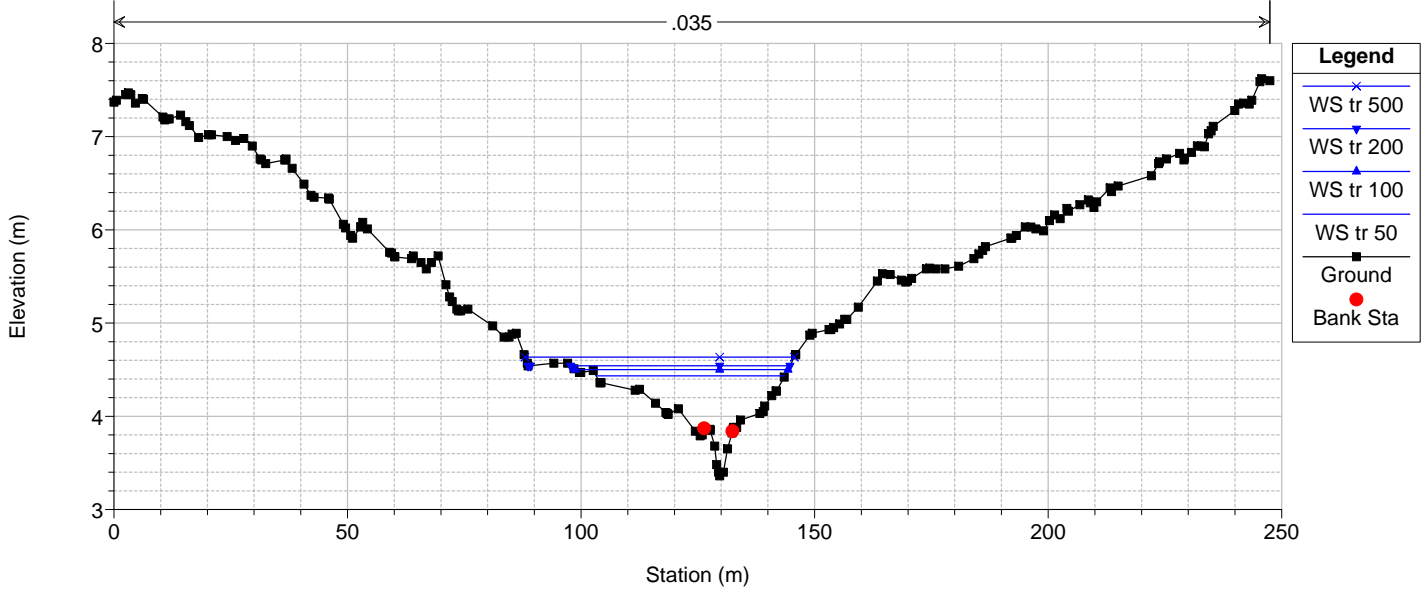
River = Lazzaretto Reach = asta RS = 300 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

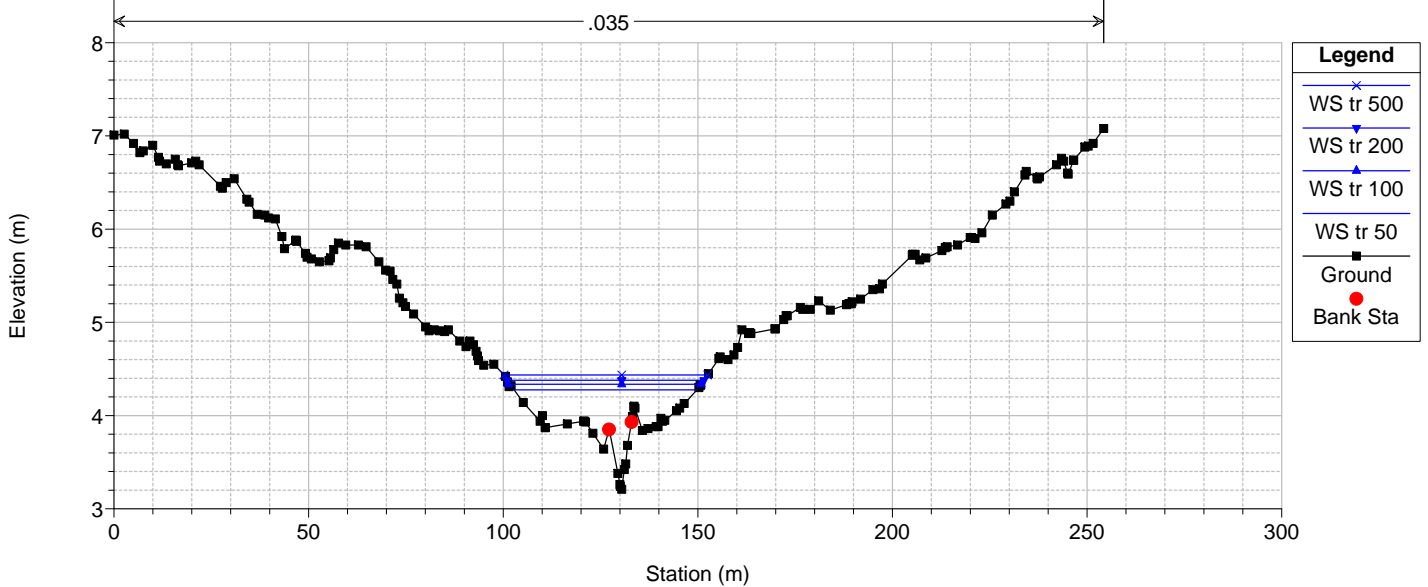
River = Lazzaretto Reach = asta RS = 280 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

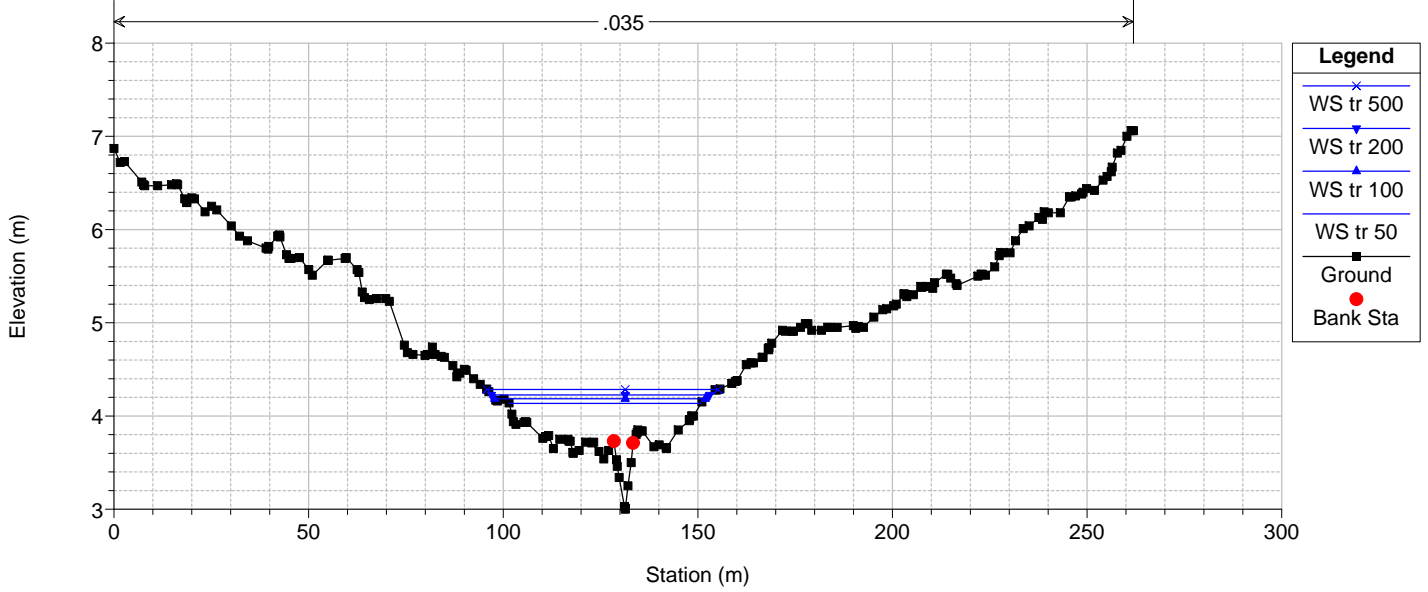
River = Lazzaretto Reach = asta RS = 260.0001 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

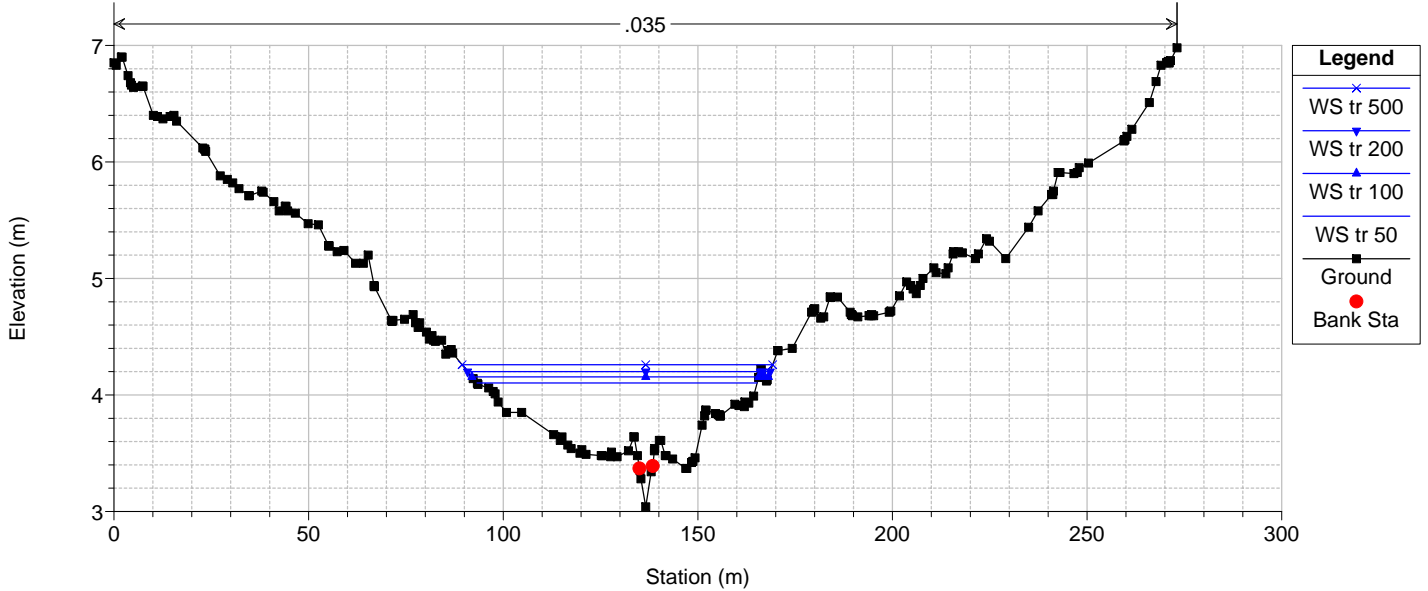
River = Lazzaretto Reach = asta RS = 239.9999 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

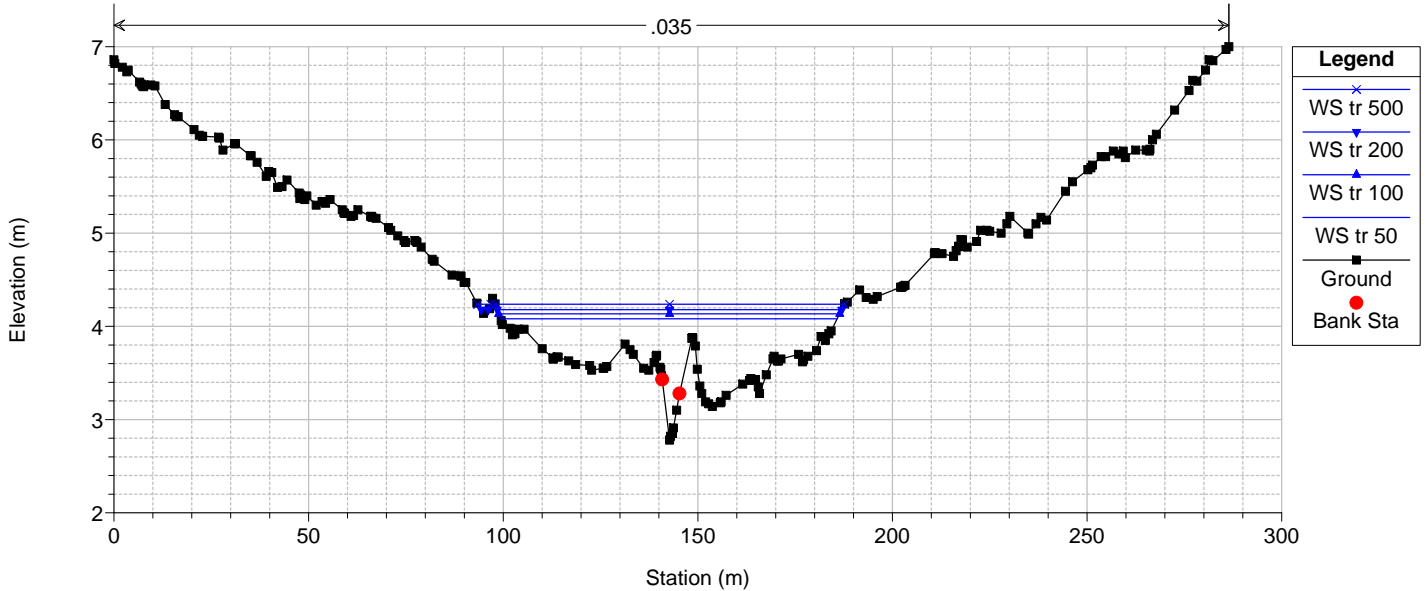
River = Lazzaretto Reach = asta RS = 220 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

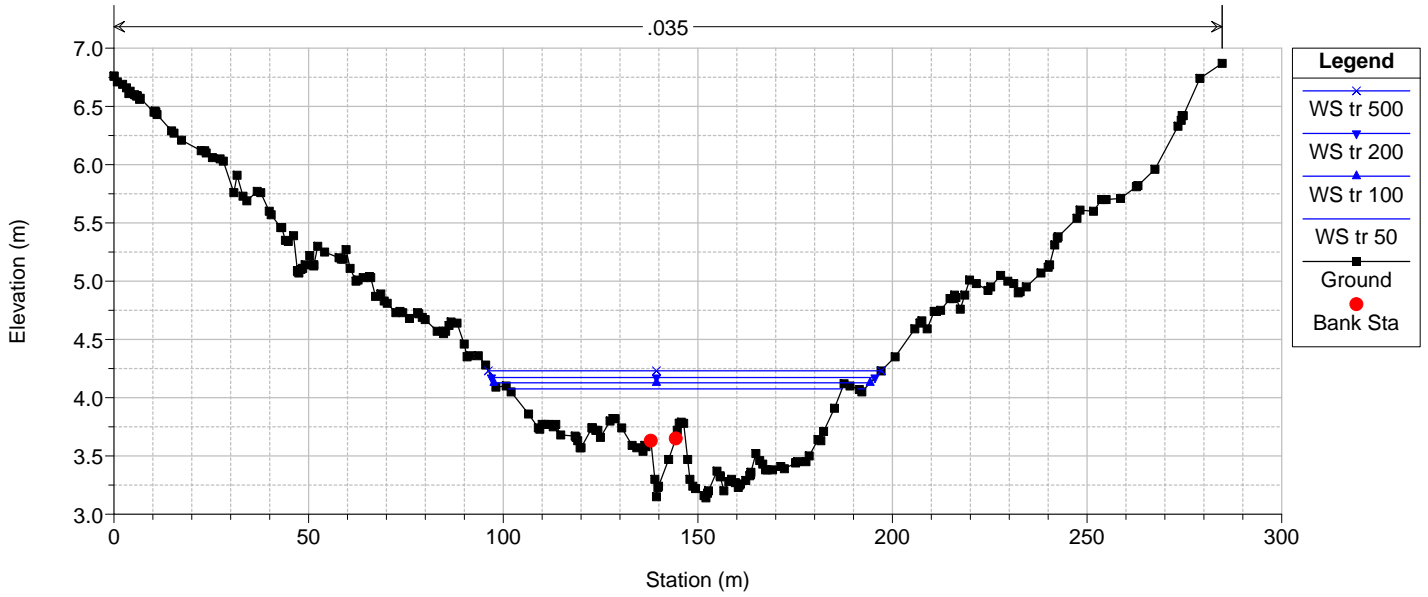
River = Lazzaretto Reach = asta RS = 200 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

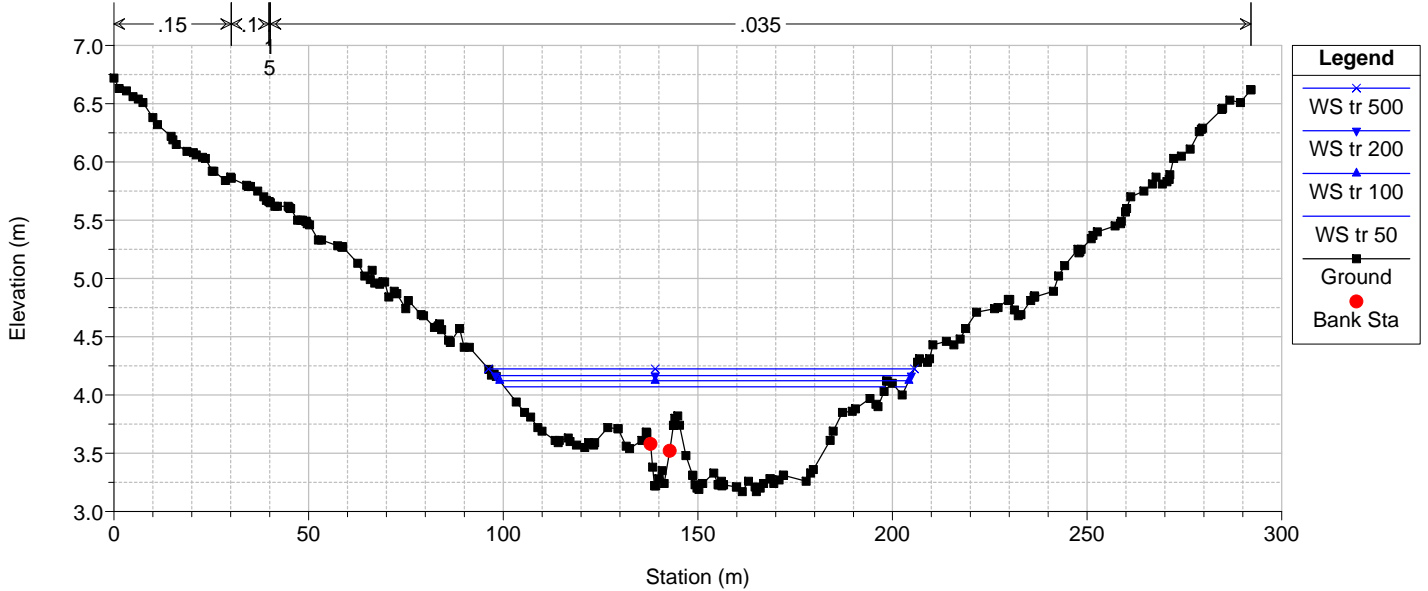
River = Lazzaretto Reach = asta RS = 193.8233 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

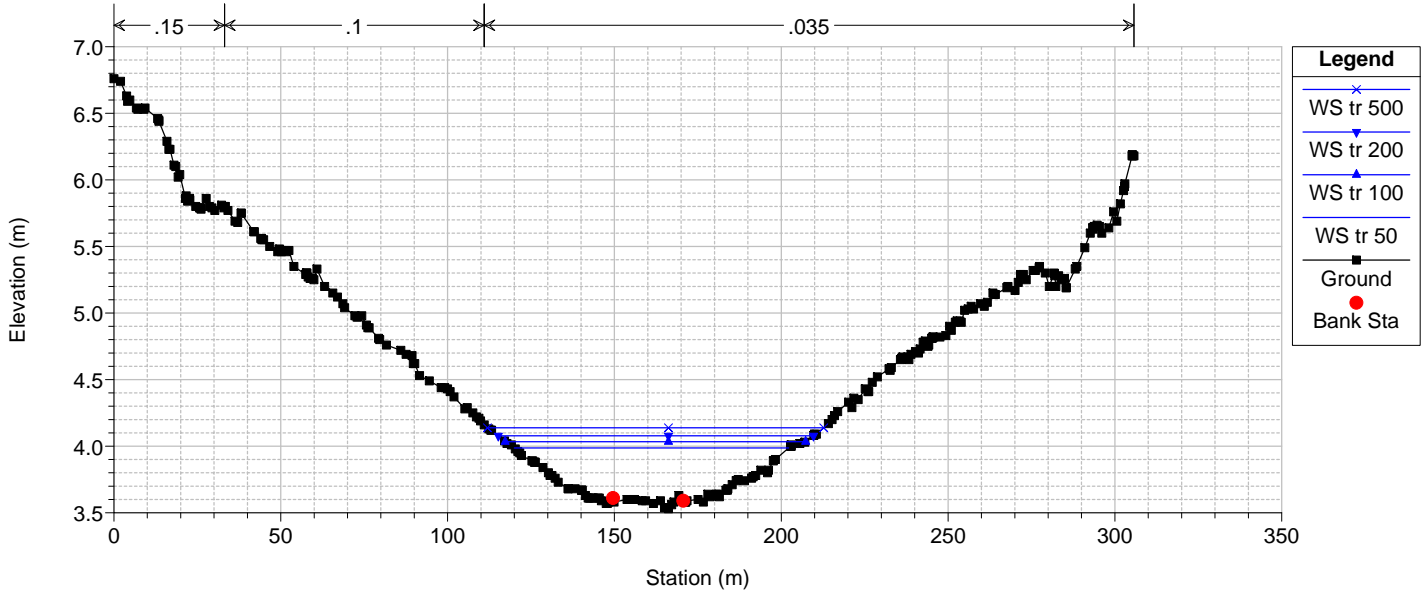
River = Lazzaretto Reach = asta RS = 183.3346 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

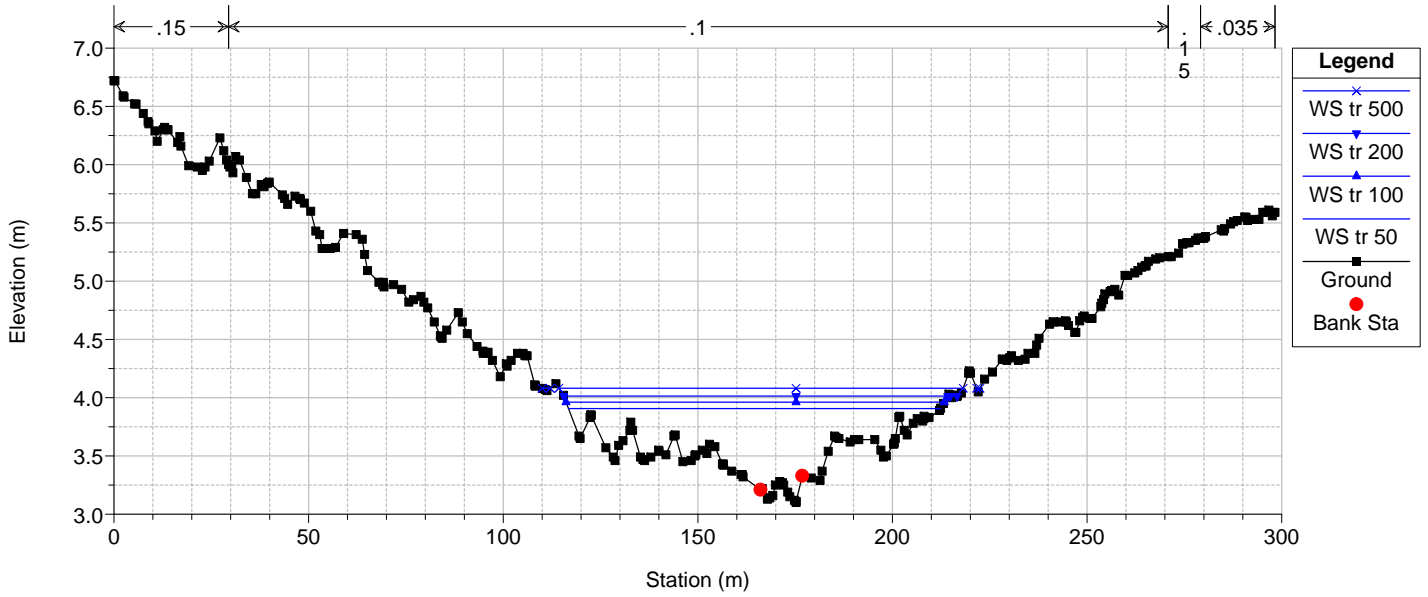
River = Lazzaretto Reach = asta RS = 170.8809 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

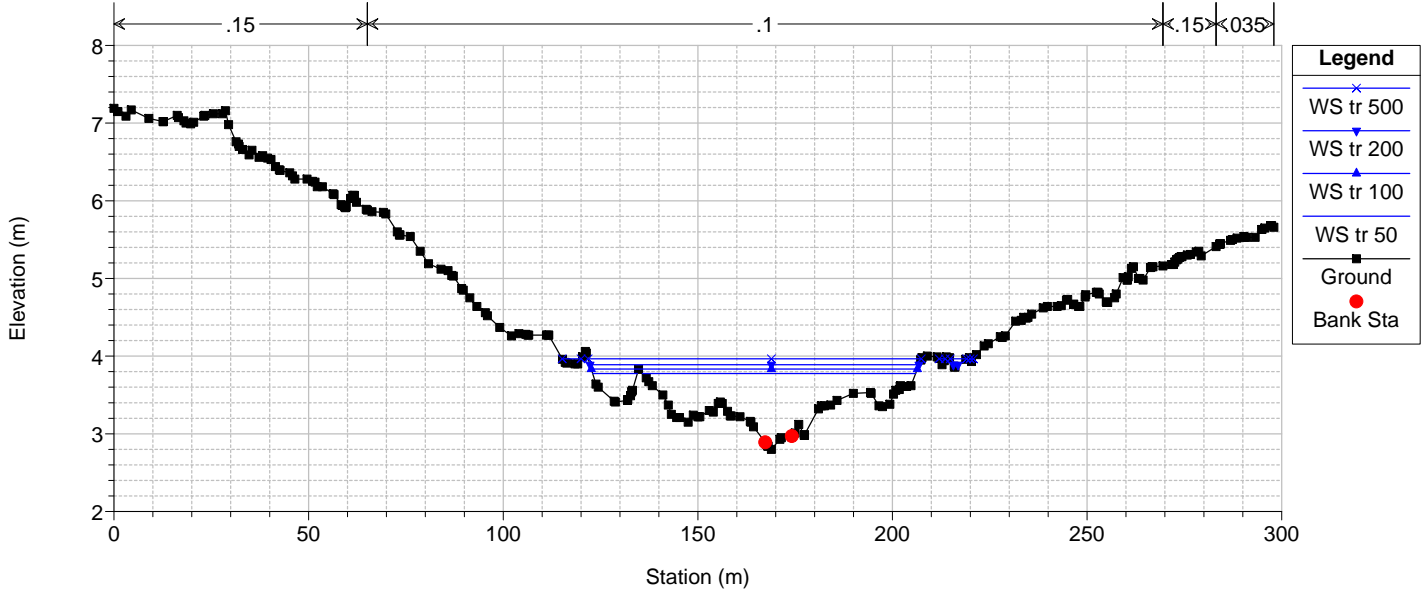
River = Lazzaretto Reach = asta RS = 161.8189 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

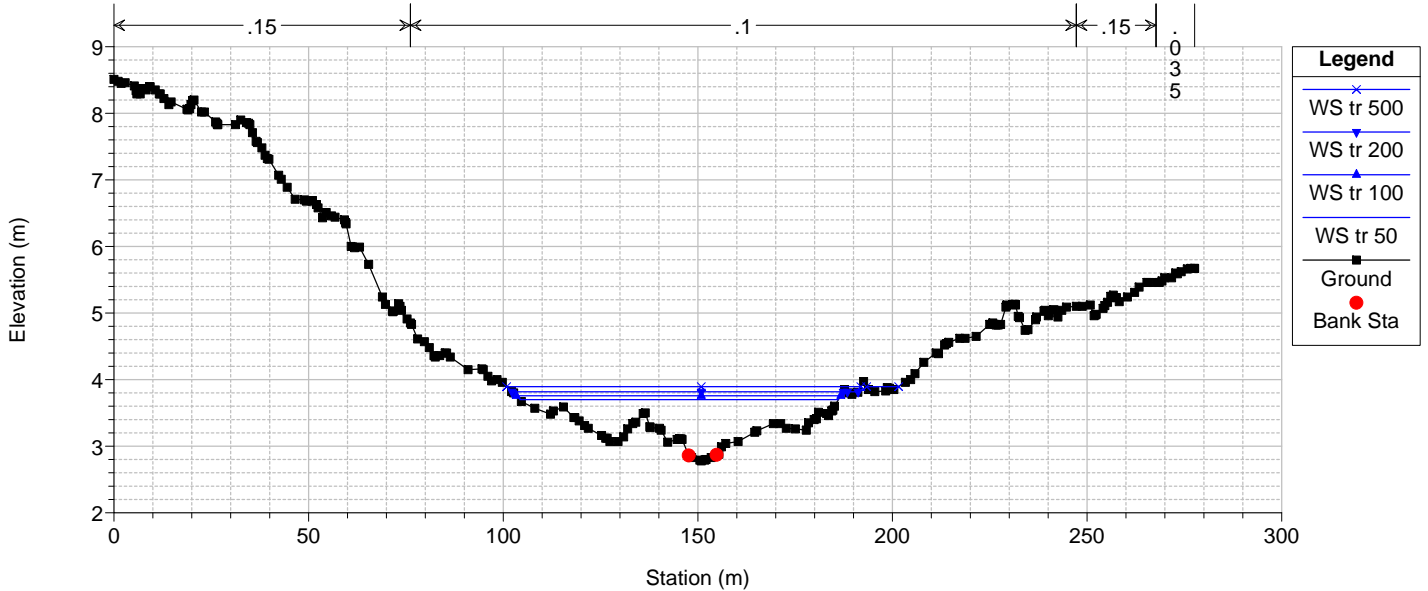
River = Lazzaretto Reach = asta RS = 154.1105 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

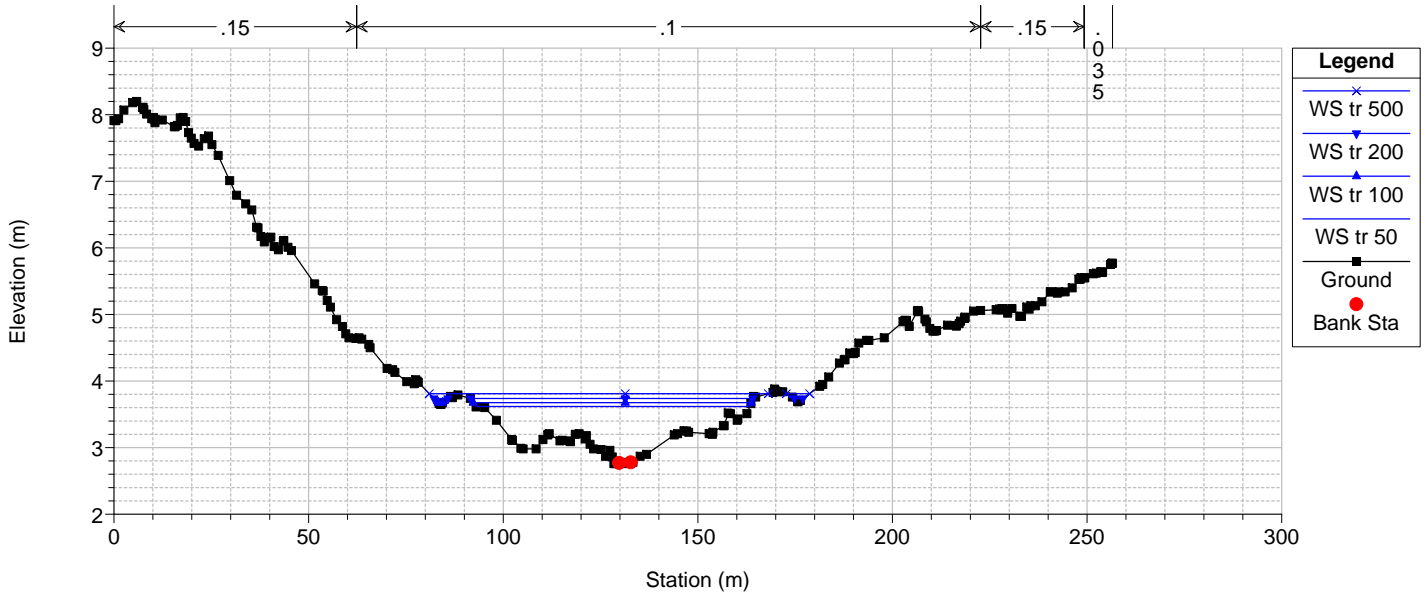
River = Lazzaretto Reach = asta RS = 149.0477 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

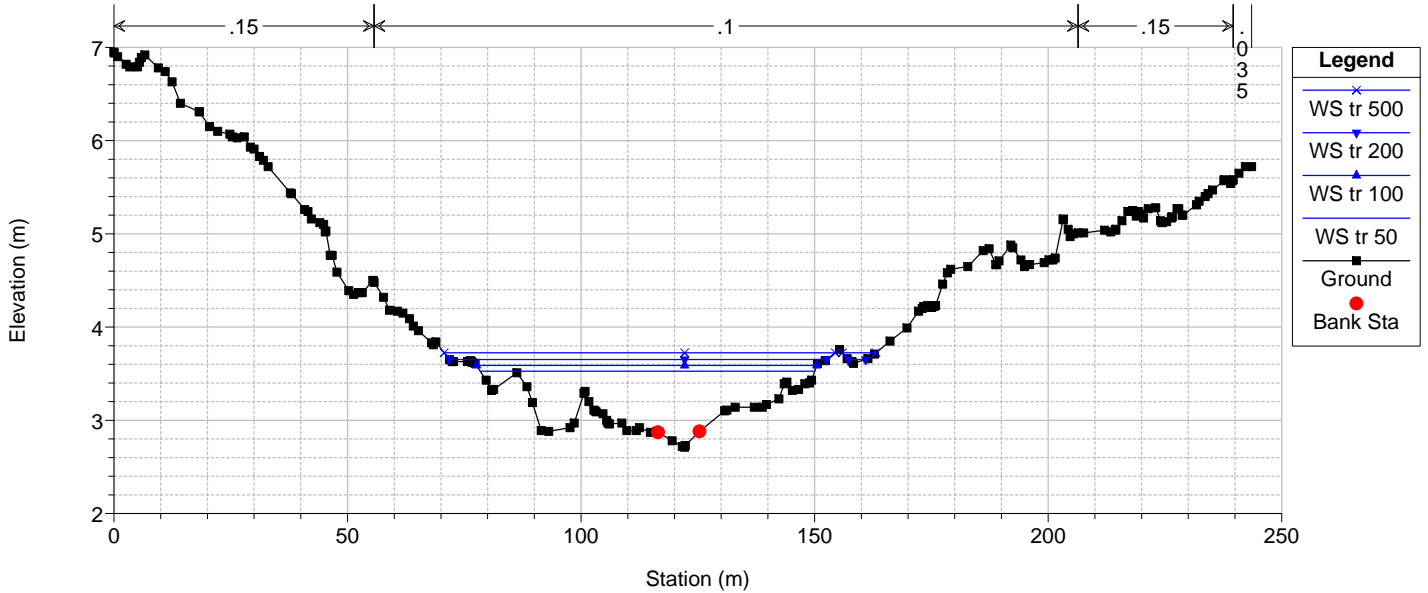
River = Lazzaretto Reach = asta RS = 144.2507 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

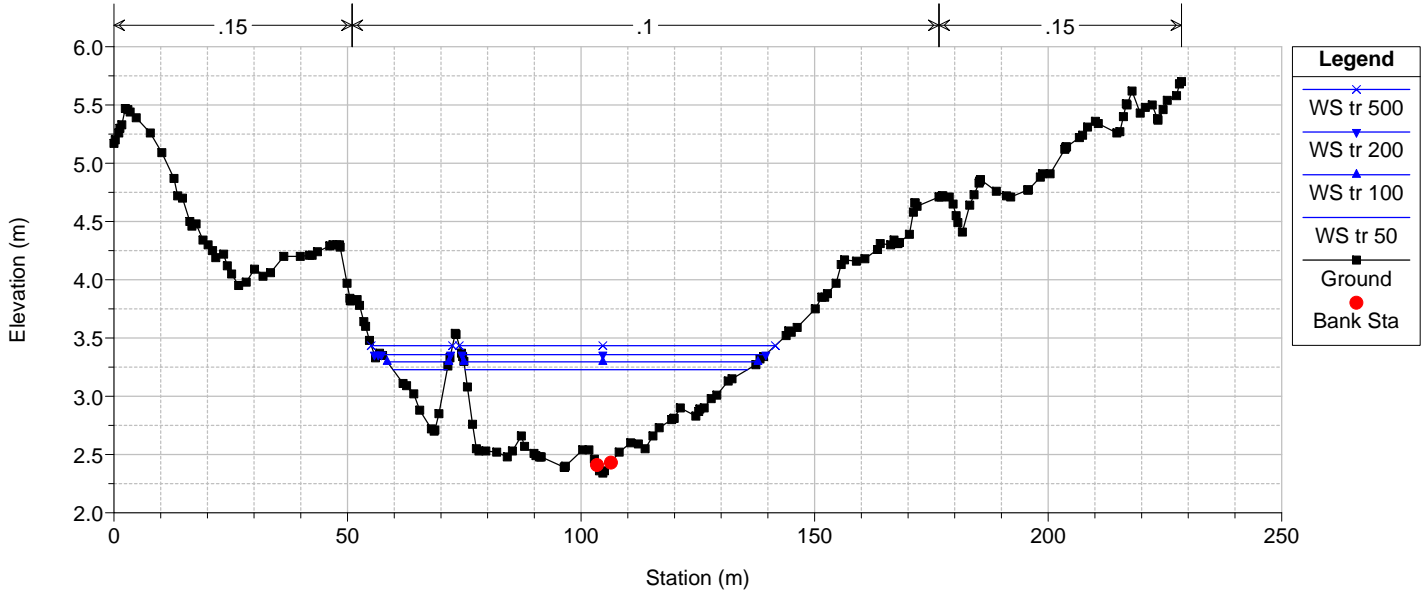
River = Lazzaretto Reach = asta RS = 140 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

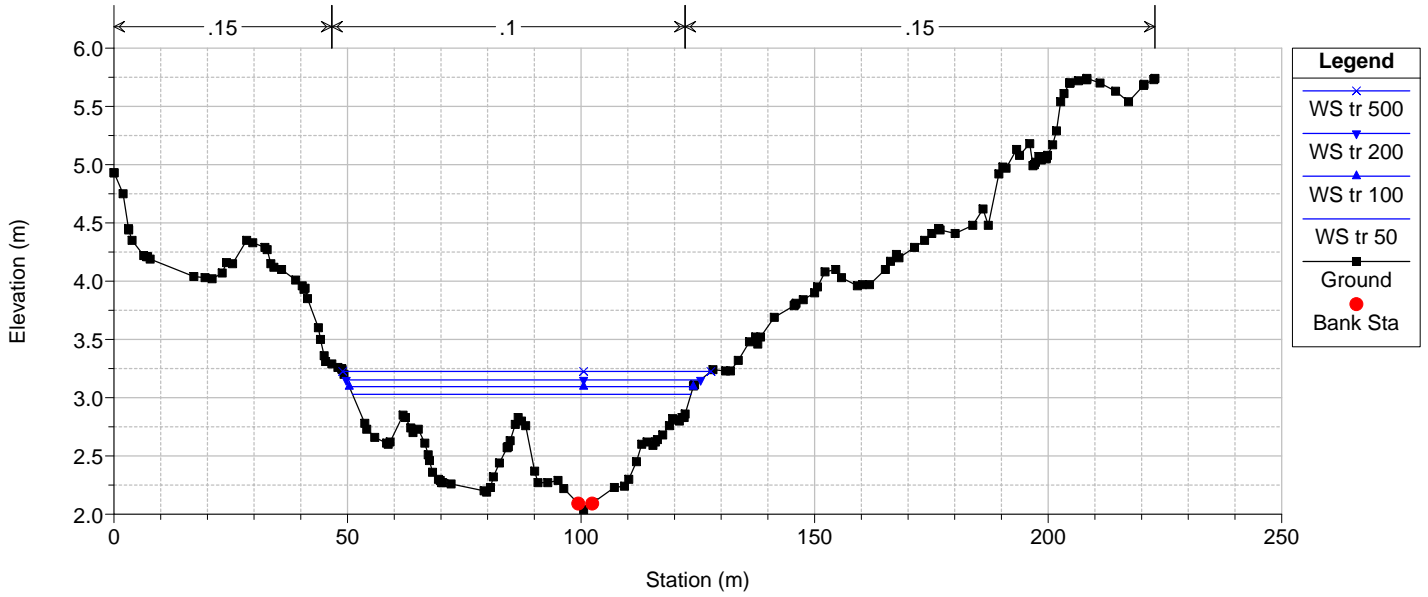
River = Lazzaretto Reach = asta RS = 120 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

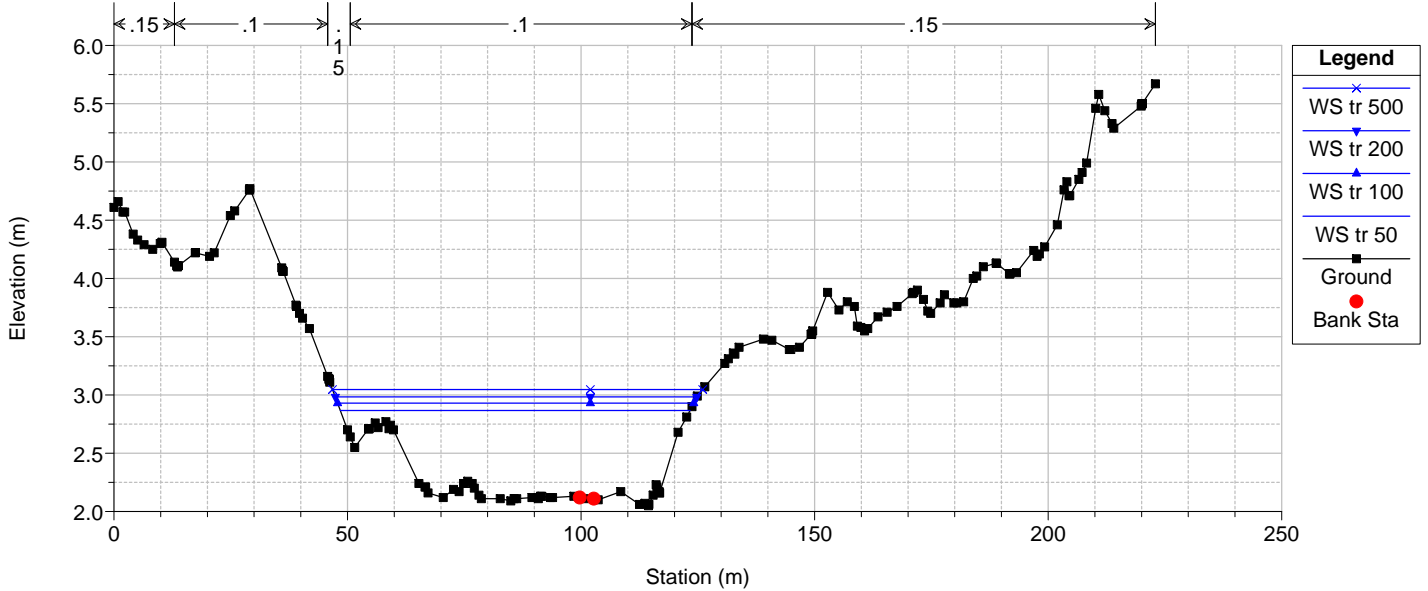
River = Lazzaretto Reach = asta RS = 99.99995 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

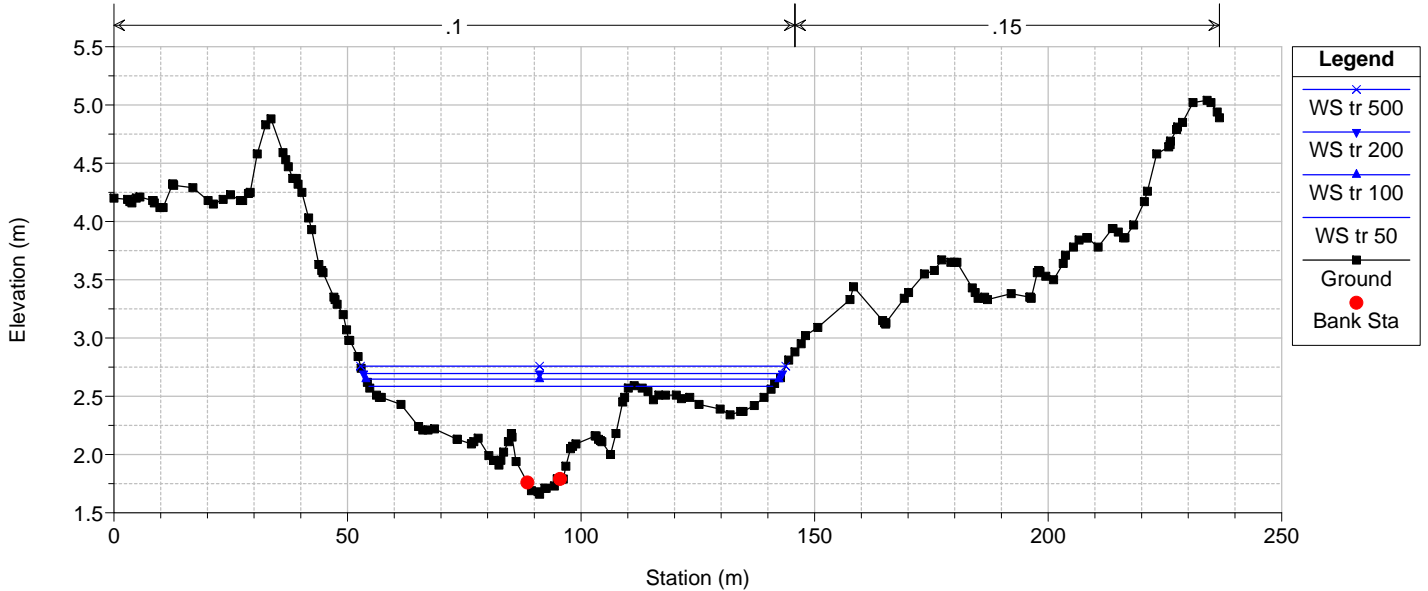
River = Lazzaretto Reach = asta RS = 80.00003 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

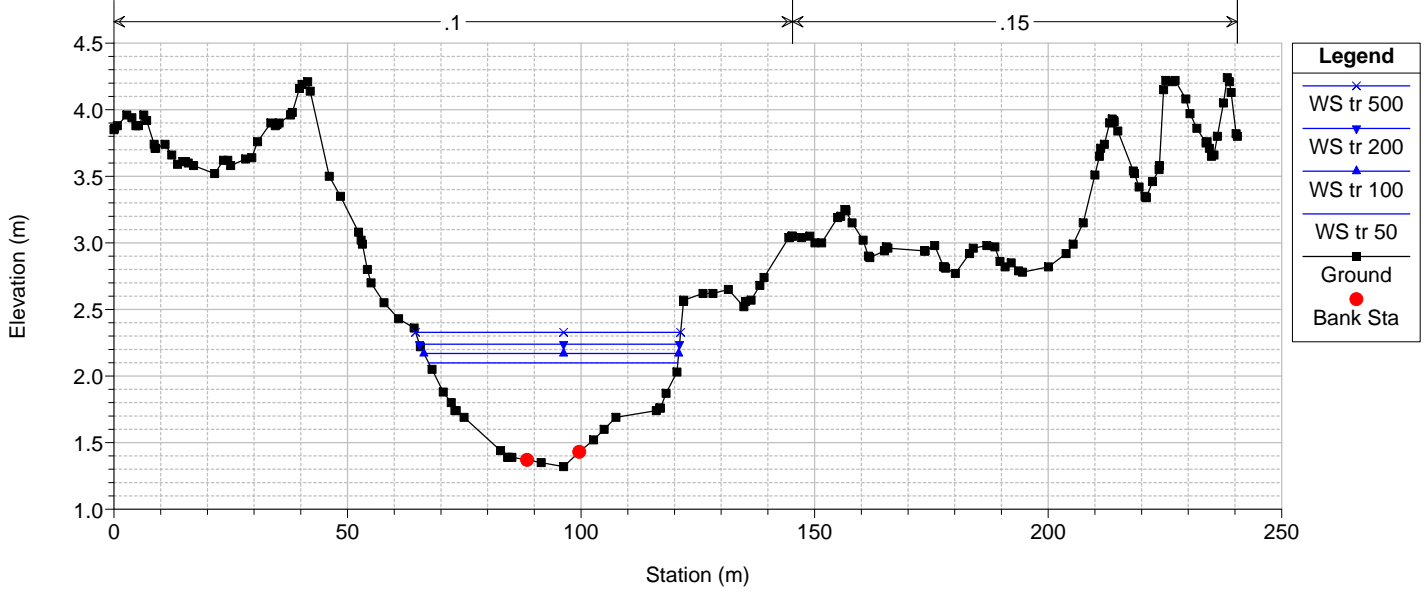
River = Lazzaretto Reach = asta RS = 59.99999 COMUNE DI ALGERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

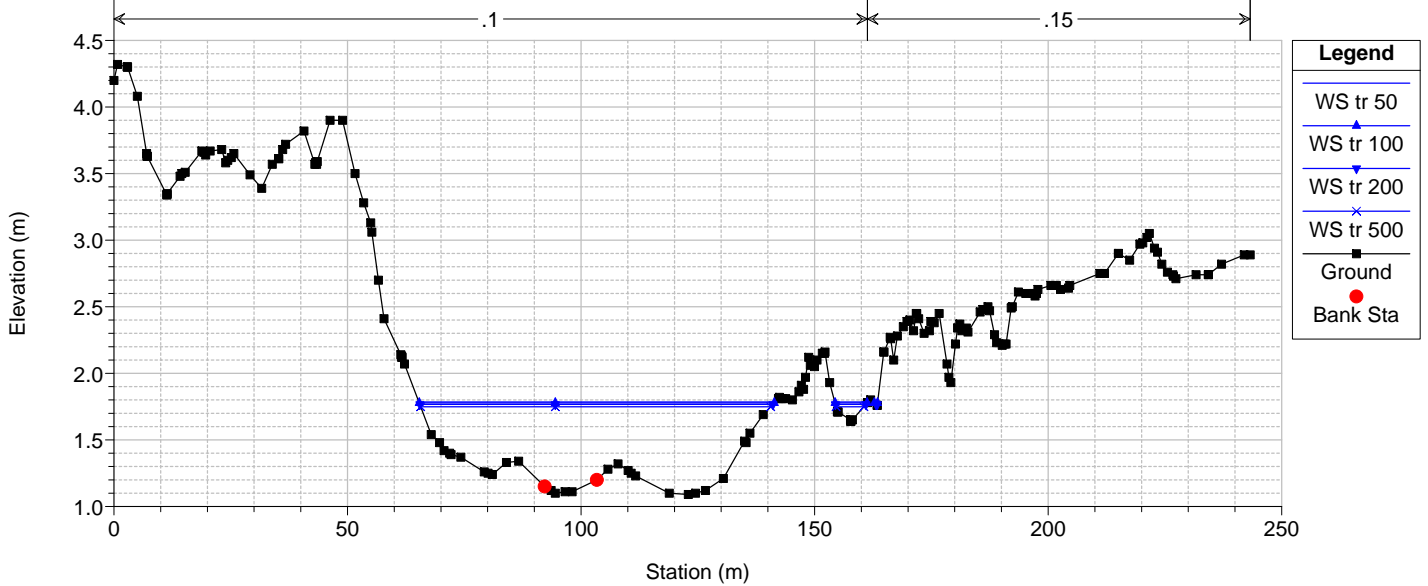
River = Lazzaretto Reach = asta RS = 39.99999 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

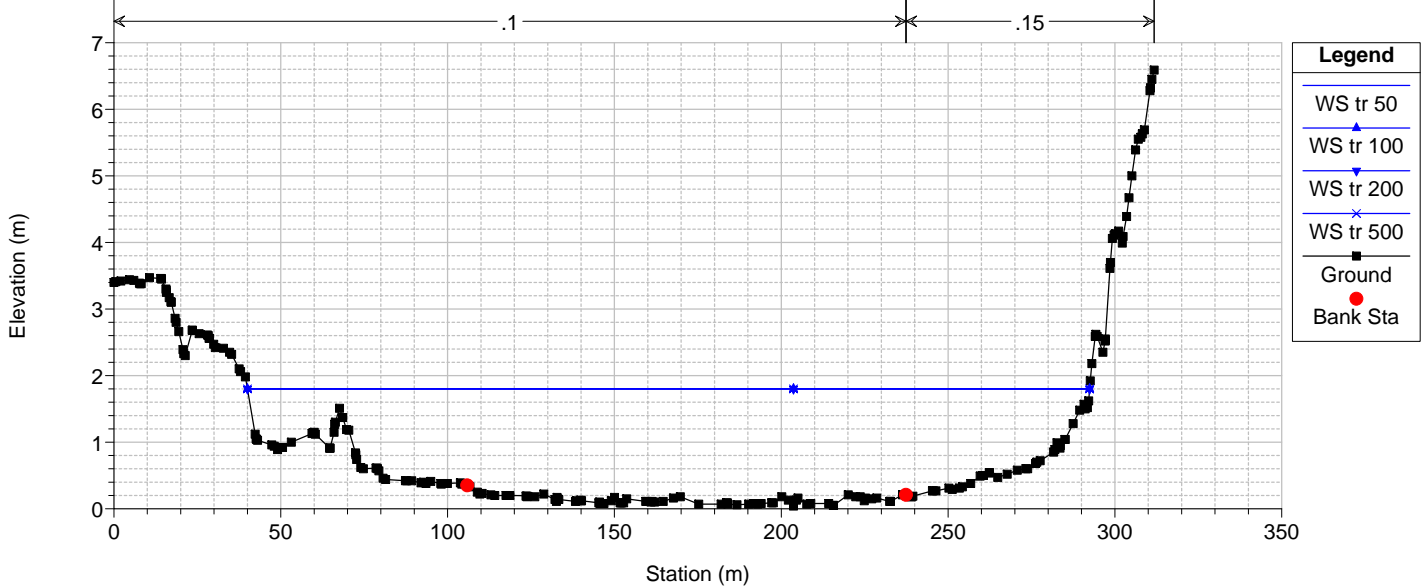
River = Lazzaretto Reach = asta RS = 20.00003 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



lazzaretto280702017 Plan: Plan 01 7/28/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

River = Lazzaretto Reach = asta RS = 5.006337 COMUNE DI ALGHERO (SS) - STUDIO DI COMPATIBILITA' IDRAULICA ART. 8 C.2



Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
asta	1640	tr 50	27.15	17.87	18.94	18.62	18.96	0.001322	0.84	47.08	97.54	0.28
asta	1640	tr 100	32.36	17.87	19.00	18.67	19.02	0.001328	0.87	52.68	102.88	0.28
asta	1640	tr 200	37.67	17.87	19.05	18.69	19.07	0.001446	0.94	57.59	105.16	0.30
asta	1640	tr 500	44.86	17.87	19.10	18.73	19.13	0.001551	1.01	63.04	109.94	0.31
asta	1620	tr 50	27.15	18.20	18.86	18.72	18.91	0.005495	1.30	28.14	94.29	0.54
asta	1620	tr 100	32.36	18.20	18.91	18.75	18.97	0.005597	1.39	33.43	98.02	0.55
asta	1620	tr 200	37.67	18.20	18.96	18.78	19.02	0.005099	1.39	38.23	100.06	0.54
asta	1620	tr 500	44.86	18.20	19.01	18.86	19.07	0.005004	1.44	43.06	100.65	0.54
asta	1600	tr 50	27.15	17.70	18.58	18.58	18.74	0.013893	2.34	17.58	51.22	0.88
asta	1600	tr 100	32.36	17.70	18.63	18.62	18.79	0.013735	2.43	20.00	53.02	0.89
asta	1600	tr 200	37.67	17.70	18.67	18.66	18.85	0.014125	2.56	22.27	55.80	0.91
asta	1600	tr 500	44.86	17.70	18.73	18.73	18.91	0.013594	2.62	26.42	69.37	0.90
asta	1580	tr 50	27.15	17.60	18.25	18.25	18.41	0.019601	2.31	15.58	47.47	1.00
asta	1580	tr 100	32.36	17.60	18.29	18.29	18.47	0.019401	2.42	17.67	49.75	1.01
asta	1580	tr 200	37.67	17.60	18.33	18.33	18.52	0.018726	2.49	19.87	51.90	1.00
asta	1580	tr 500	44.86	17.60	18.40	18.40	18.59	0.018088	2.61	23.44	59.35	1.00
asta	1560	tr 50	27.15	17.54	17.91	17.91	17.93	0.002678	0.56	47.20	166.44	0.33
asta	1560	tr 100	32.36	17.54	17.91	17.91	17.93	0.003807	0.67	47.20	166.44	0.40
asta	1560	tr 200	37.67	17.54	17.91	17.91	17.94	0.005158	0.78	47.20	166.44	0.46
asta	1560	tr 500	44.86	17.54	17.91	17.91	17.96	0.007317	0.93	47.20	166.43	0.55
asta	1540	tr 50	27.15	16.10	17.29	17.29	17.37	0.009245	2.13	28.44	131.73	0.70
asta	1540	tr 100	32.36	16.10	17.31	17.31	17.40	0.010264	2.27	30.98	134.41	0.74
asta	1540	tr 200	37.67	16.10	17.32	17.32	17.43	0.012831	2.55	31.91	138.10	0.83
asta	1540	tr 500	44.86	16.10	17.32	17.32	17.48	0.018202	3.04	31.91	138.10	0.99
asta	1520	tr 50	27.15	15.32	16.70	16.70	16.73	0.002717	1.34	41.10	134.65	0.41
asta	1520	tr 100	32.36	15.32	16.70	16.70	16.74	0.003862	1.59	41.10	134.65	0.48
asta	1520	tr 200	37.67	15.32	16.70	16.70	16.76	0.005231	1.86	41.10	134.65	0.56
asta	1520	tr 500	44.86	15.32	16.70	16.70	16.78	0.007421	2.21	41.10	134.65	0.67
asta	1500	tr 50	27.15	15.25	15.98	15.98	16.00	0.002384	0.83	49.44	165.92	0.35
asta	1500	tr 100	32.36	15.25	15.98	15.98	16.00	0.003388	0.99	49.44	165.92	0.42
asta	1500	tr 200	37.67	15.25	15.98	15.98	16.01	0.004590	1.16	49.44	165.92	0.49
asta	1500	tr 500	44.86	15.25	15.98	15.98	16.02	0.006511	1.38	49.44	165.92	0.58
asta	1480	tr 50	27.15	14.89	15.34	15.34	15.36	0.002434	0.61	49.20	165.41	0.33
asta	1480	tr 100	32.36	14.89	15.34	15.34	15.36	0.003459	0.73	49.20	165.41	0.39
asta	1480	tr 200	37.67	14.89	15.34	15.34	15.37	0.004683	0.84	49.21	165.42	0.46
asta	1480	tr 500	44.86	14.89	15.34	15.34	15.38	0.006643	1.01	49.21	165.42	0.54
asta	1460	tr 50	27.15	14.48	14.91	14.91	14.94	0.005357	0.89	37.48	153.82	0.49
asta	1460	tr 100	32.36	14.48	14.91	14.91	14.95	0.007606	1.06	37.49	153.83	0.58
asta	1460	tr 200	37.67	14.48	14.91	14.91	14.96	0.010304	1.23	37.49	153.83	0.67
asta	1460	tr 500	44.86	14.48	14.91	14.91	14.98	0.014617	1.47	37.49	153.83	0.80
asta	1440	tr 50	27.15	13.71	14.34	14.41	14.64	0.080158	3.44	11.86	67.48	1.85
asta	1440	tr 100	32.36	13.71	14.40	14.41	14.62	0.045739	2.89	16.05	71.33	1.44
asta	1440	tr 200	37.67	13.71	14.41	14.41	14.48	0.015129	1.68	31.68	135.38	0.83
asta	1440	tr 500	44.86	13.71	14.43	14.41	14.52	0.015886	1.79	35.06	137.10	0.86
asta	1420	tr 50	27.15	13.43	14.00	14.00	14.08	0.019771	2.11	23.00	126.39	0.97
asta	1420	tr 100	32.36	13.43	14.02	14.02	14.11	0.020637	2.21	25.45	128.28	1.00
asta	1420	tr 200	37.67	13.43	14.05	14.04	14.14	0.018893	2.19	29.01	135.19	0.97
asta	1420	tr 500	44.86	13.43	14.08	14.07	14.18	0.018084	2.23	33.54	138.43	0.95
asta	1404.303	tr 50	27.15	13.46	13.88	13.76	13.91	0.005434	0.80	35.82	140.14	0.48
asta	1404.303	tr 100	32.36	13.46	13.91		13.94	0.005573	0.86	39.75	144.90	0.49
asta	1404.303	tr 200	37.67	13.46	13.94		13.97	0.005851	0.93	43.50	146.63	0.51
asta	1404.303	tr 500	44.86	13.46	13.97		14.01	0.006003	1.00	48.24	148.31	0.52
asta	1393.949	tr 50	27.15	13.39	13.73	13.73	13.81	0.026524	1.81	21.47	127.89	1.06
asta	1393.949	tr 100	32.36	13.39	13.75	13.75	13.84	0.026308	1.89	24.13	129.64	1.06
asta	1393.949	tr 200	37.67	13.39	13.77	13.77	13.87	0.024003	1.89	27.41	137.00	1.03
asta	1393.949	tr 500	44.86	13.39	13.80	13.80	13.91	0.023460	1.96	30.87	139.39	1.03
asta	1380	tr 50	27.15	12.73	13.53	13.53	13.57	0.003705	1.19	33.22	111.93	0.45
asta	1380	tr 100	32.36	12.73	13.53	13.53	13.58	0.005265	1.42	33.22	111.93	0.54
asta	1380	tr 200	37.67	12.73	13.53	13.53	13.60	0.007132	1.65	33.22	111.93	0.62
asta	1380	tr 500	44.86	12.73	13.53	13.53	13.63	0.010112	1.97	33.23	111.93	0.74
asta	1360	tr 50	27.15	12.46	12.67	12.81	13.28	0.207025	2.97	7.82	57.58	2.55
asta	1360	tr 100	32.36	12.46	12.70	12.85	13.24	0.142640	2.89	10.00	61.23	2.21
asta	1360	tr 200	37.67	12.46	12.74	12.89	13.21	0.099437	2.76	12.51	64.68	1.91
asta	1360	tr 500	44.86	12.46	12.80	12.92	13.19	0.063508	2.58	16.29	68.91	1.58
asta	1340	tr 50	27.15	12.09	12.43	12.43	12.54	0.019859	1.25	18.22	80.54	0.86
asta	1340	tr 100	32.36	12.09	12.46	12.46	12.59	0.018691	1.30	20.87	85.20	0.85
asta	1340	tr 200	37.67	12.09	12.49	12.49	12.62	0.018312	1.36	23.42	87.69	0.85

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
asta	1340	tr 500	44.86	12.09	12.53	12.53	12.67	0.017197	1.43	26.73	93.26	0.84
asta	1320	tr 50	27.15	11.65	12.13	12.05	12.19	0.007739	1.15	25.05	95.08	0.59
asta	1320	tr 100	32.36	11.65	12.17	12.08	12.24	0.008309	1.27	28.97	109.71	0.62
asta	1320	tr 200	37.67	11.65	12.20	12.12	12.27	0.008472	1.33	31.94	115.84	0.63
asta	1320	tr 500	44.86	11.65	12.23	12.16	12.31	0.008636	1.41	35.85	122.46	0.65
asta	1300	tr 50	27.15	11.33	11.88	11.88	11.97	0.017158	1.67	20.24	109.58	0.86
asta	1300	tr 100	32.36	11.33	11.91	11.91	12.00	0.016685	1.73	23.61	122.54	0.86
asta	1300	tr 200	37.67	11.33	11.93	11.93	12.04	0.016958	1.81	26.68	128.27	0.88
asta	1300	tr 500	44.86	11.33	11.96	11.96	12.07	0.017106	1.89	30.16	135.82	0.89
asta	1280	tr 50	27.15	11.21	11.52	11.50	11.58	0.015660	1.19	23.68	130.41	0.78
asta	1280	tr 100	32.36	11.21	11.54	11.52	11.62	0.014566	1.23	26.93	131.13	0.77
asta	1280	tr 200	37.67	11.21	11.56	11.54	11.65	0.014015	1.27	29.89	131.77	0.76
asta	1280	tr 500	44.86	11.21	11.59	11.57	11.68	0.013218	1.32	33.86	132.65	0.75
asta	1260	tr 50	27.15	10.94	11.24	11.21	11.31	0.011978	1.31	22.78	112.70	0.80
asta	1260	tr 100	32.36	10.94	11.26	11.24	11.34	0.012724	1.43	25.29	116.81	0.84
asta	1260	tr 200	37.67	10.94	11.28	11.26	11.37	0.013225	1.52	27.78	120.38	0.86
asta	1260	tr 500	44.86	10.94	11.31	11.29	11.41	0.013785	1.66	32.01	126.69	0.90
asta	1240	tr 50	27.15	10.61	10.90	10.90	10.99	0.021948	1.46	20.55	120.49	1.03
asta	1240	tr 100	32.36	10.61	10.93	10.93	11.02	0.019846	1.50	23.82	125.79	1.00
asta	1240	tr 200	37.67	10.61	10.95	10.95	11.05	0.019451	1.57	26.47	130.36	1.00
asta	1240	tr 500	44.86	10.61	10.98	10.98	11.09	0.018890	1.66	30.07	137.97	1.00
asta	1225.973	tr 50	27.15	10.37	10.80	10.71	10.84	0.004933	0.85	34.35	139.15	0.51
asta	1225.973	tr 100	32.36	10.37	10.83	10.73	10.87	0.004976	0.91	38.11	139.61	0.52
asta	1225.973	tr 200	37.67	10.37	10.86	10.75	10.90	0.005116	0.97	41.44	140.06	0.53
asta	1225.973	tr 500	44.86	10.37	10.88	10.78	10.93	0.005312	1.04	45.57	140.61	0.55
asta	1214.986	tr 50	27.15	10.36	10.75		10.78	0.004803	0.84	34.92	142.57	0.50
asta	1214.986	tr 100	32.36	10.36	10.78		10.82	0.004880	0.89	38.71	145.07	0.51
asta	1214.986	tr 200	37.67	10.36	10.80		10.84	0.005151	0.96	41.82	146.02	0.53
asta	1214.986	tr 500	44.86	10.36	10.83		10.88	0.005491	1.04	45.65	148.03	0.55
asta	1195.076	tr 50	27.15	10.15	10.62		10.67	0.009379	1.48	30.21	174.25	0.75
asta	1195.076	tr 100	32.36	10.15	10.64		10.69	0.009584	1.56	34.29	178.72	0.77
asta	1195.076	tr 200	37.67	10.15	10.67		10.72	0.009210	1.58	38.43	183.08	0.76
asta	1195.076	tr 500	44.86	10.15	10.70		10.75	0.008682	1.61	44.24	191.28	0.75
asta	1180	tr 50	27.15	10.00	10.41	10.41	10.49	0.014106	1.49	22.88	128.86	0.88
asta	1180	tr 100	32.36	10.00	10.44	10.44	10.52	0.013151	1.55	27.54	138.19	0.86
asta	1180	tr 200	37.67	10.00	10.46	10.45	10.55	0.013874	1.65	29.91	139.08	0.89
asta	1180	tr 500	44.86	10.00	10.48	10.47	10.58	0.014496	1.76	33.03	140.02	0.92
asta	1160	tr 50	27.15	9.42	10.11	10.08	10.21	0.010571	1.68	20.84	86.99	0.79
asta	1160	tr 100	32.36	9.42	10.14	10.13	10.25	0.011060	1.79	23.57	92.27	0.82
asta	1160	tr 200	37.67	9.42	10.17	10.16	10.29	0.011612	1.90	26.05	94.37	0.84
asta	1160	tr 500	44.86	9.42	10.21	10.21	10.33	0.011015	1.96	32.82	130.62	0.83
asta	1140	tr 50	27.15	9.36	9.83	9.83	9.96	0.014419	1.61	17.35	72.56	0.89
asta	1140	tr 100	32.36	9.36	9.87	9.87	10.01	0.013308	1.68	20.87	86.69	0.87
asta	1140	tr 200	37.67	9.36	9.91	9.91	10.05	0.012435	1.74	24.70	95.59	0.86
asta	1140	tr 500	44.86	9.36	9.94	9.95	10.10	0.013479	1.89	27.32	97.61	0.90
asta	1120	tr 50	27.15	9.26	9.53	9.54	9.66	0.015413	1.31	17.64	79.14	0.88
asta	1120	tr 100	32.36	9.26	9.55	9.58	9.71	0.016698	1.46	19.61	84.25	0.93
asta	1120	tr 200	37.67	9.26	9.58	9.61	9.75	0.017379	1.59	21.76	86.74	0.97
asta	1120	tr 500	44.86	9.26	9.62	9.65	9.80	0.016401	1.69	25.34	89.33	0.96
asta	1100	tr 50	27.15	8.49	9.25	9.26	9.38	0.013049	2.23	19.02	78.93	0.94
asta	1100	tr 100	32.36	8.49	9.29	9.30	9.42	0.011817	2.23	22.51	84.13	0.91
asta	1100	tr 200	37.67	8.49	9.33	9.32	9.46	0.011104	2.24	25.70	88.83	0.89
asta	1100	tr 500	44.86	8.49	9.36	9.36	9.51	0.012158	2.41	28.30	92.47	0.94
asta	1080	tr 50	27.15	8.79	8.94	8.87	9.03	0.009446	0.56	20.18	64.99	0.59
asta	1080	tr 100	32.36	8.79	8.97	8.91	9.08	0.009942	0.71	22.41	68.67	0.64
asta	1080	tr 200	37.67	8.79	9.01	8.95	9.12	0.010022	0.85	25.21	75.99	0.67
asta	1080	tr 500	44.86	8.79	8.95	8.99	9.18	0.022060	0.96	21.32	66.93	0.93
asta	1060	tr 50	27.15	8.48	8.67	8.67	8.79	0.014390	0.72	17.74	71.93	0.74
asta	1060	tr 100	32.36	8.48	8.71	8.71	8.84	0.014252	0.91	20.93	78.09	0.78
asta	1060	tr 200	37.67	8.48	8.74	8.73	8.88	0.014795	1.04	23.07	82.17	0.82
asta	1060	tr 500	44.86	8.48	8.78	8.78	8.93	0.014650	1.19	26.39	90.18	0.85
asta	1040	tr 50	27.15	7.81	8.52	8.44	8.59	0.006566	1.45	25.54	88.57	0.65
asta	1040	tr 100	32.36	7.81	8.56	8.47	8.63	0.006528	1.52	28.95	93.22	0.66
asta	1040	tr 200	37.67	7.81	8.60		8.67	0.006658	1.60	32.23	96.93	0.67
asta	1040	tr 500	44.86	7.81	8.63	8.54	8.72	0.006789	1.68	35.92	98.88	0.69
asta	1020	tr 50	27.15	7.57	8.30	8.29	8.40	0.012959	2.15	20.69	85.59	0.92

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
asta	1020	tr 100	32.36	7.57	8.33	8.32	8.45	0.013450	2.27	23.37	92.87	0.95
asta	1020	tr 200	37.67	7.57	8.36	8.35	8.48	0.013656	2.36	25.91	96.08	0.96
asta	1020	tr 500	44.86	7.57	8.39	8.39	8.53	0.013789	2.45	29.09	98.36	0.98
asta	1000	tr 50	27.15	7.43	8.07	8.02	8.15	0.012027	1.83	22.42	100.94	0.86
asta	1000	tr 100	32.36	7.43	8.09	8.07	8.19	0.011984	1.90	25.24	102.50	0.86
asta	1000	tr 200	37.67	7.43	8.12	8.10	8.22	0.011925	1.96	28.00	104.33	0.87
asta	1000	tr 500	44.86	7.43	8.16	8.13	8.26	0.011846	2.04	31.62	107.28	0.87
asta	980.0001	tr 50	27.15	7.48	7.96		7.99	0.004749	1.05	32.85	125.68	0.54
asta	980.0001	tr 100	32.36	7.48	7.99		8.03	0.004706	1.10	36.88	127.30	0.54
asta	980.0001	tr 200	37.67	7.48	8.02		8.06	0.004675	1.15	40.75	128.98	0.55
asta	980.0001	tr 500	44.86	7.48	8.05		8.10	0.004759	1.22	45.41	131.37	0.56
asta	960.0001	tr 50	27.15	7.31	7.89		7.91	0.002994	1.00	39.97	142.80	0.45
asta	960.0001	tr 100	32.36	7.31	7.92		7.95	0.002975	1.04	44.77	144.35	0.45
asta	960.0001	tr 200	37.67	7.31	7.95		7.98	0.002994	1.08	49.30	146.52	0.45
asta	960.0001	tr 500	44.86	7.31	7.99		8.02	0.003153	1.15	54.31	148.89	0.47
asta	940	tr 50	27.15	7.16	7.71	7.71	7.80	0.013752	2.10	22.54	117.21	0.95
asta	940	tr 100	32.36	7.16	7.73	7.73	7.83	0.015169	2.27	24.85	118.90	1.00
asta	940	tr 200	37.67	7.16	7.75	7.75	7.86	0.015633	2.36	27.29	120.75	1.03
asta	940	tr 500	44.86	7.16	7.79	7.79	7.90	0.014286	2.36	31.74	124.32	0.99
asta	920	tr 50	27.15	7.03	7.45	7.39	7.51	0.009469	1.45	25.49	111.17	0.75
asta	920	tr 100	32.36	7.03	7.48	7.42	7.55	0.009410	1.54	29.71	121.58	0.76
asta	920	tr 200	37.67	7.03	7.51	7.45	7.58	0.009198	1.59	32.90	122.62	0.76
asta	920	tr 500	44.86	7.03	7.54	7.48	7.62	0.008876	1.64	37.12	127.75	0.76
asta	900.0001	tr 50	27.15	6.96	7.32		7.36	0.005534	1.02	30.62	130.44	0.56
asta	900.0001	tr 100	32.36	6.96	7.36		7.40	0.005422	1.09	35.76	135.29	0.57
asta	900.0001	tr 200	37.67	6.96	7.40		7.44	0.004836	1.10	41.33	143.18	0.55
asta	900.0001	tr 500	44.86	6.96	7.44		7.49	0.004490	1.14	47.95	148.54	0.54
asta	880.0001	tr 50	27.15	6.61	7.25		7.28	0.002975	0.90	39.48	137.74	0.43
asta	880.0001	tr 100	32.36	6.61	7.30		7.32	0.002681	0.91	45.76	143.04	0.41
asta	880.0001	tr 200	37.67	6.61	7.34		7.37	0.002537	0.94	52.50	152.13	0.41
asta	880.0001	tr 500	44.86	6.61	7.39		7.42	0.002349	0.96	60.31	157.59	0.40
asta	860.0001	tr 50	27.15	6.66	7.23		7.24	0.000811	0.52	60.44	158.36	0.23
asta	860.0001	tr 100	32.36	6.66	7.28		7.29	0.000815	0.56	67.85	165.00	0.24
asta	860.0001	tr 200	37.67	6.66	7.32		7.33	0.000910	0.62	75.34	173.65	0.25
asta	860.0001	tr 500	44.86	6.66	7.37		7.39	0.000900	0.65	84.37	175.15	0.26
asta	839.9999	tr 50	27.15	6.65	7.21		7.22	0.001008	0.52	54.46	136.98	0.25
asta	839.9999	tr 100	32.36	6.65	7.26		7.27	0.001021	0.56	60.88	151.08	0.26
asta	839.9999	tr 200	37.67	6.65	7.30		7.31	0.001169	0.63	67.35	160.10	0.28
asta	839.9999	tr 500	44.86	6.65	7.35		7.37	0.001217	0.69	75.74	170.34	0.29
asta	820.0001	tr 50	27.15	6.60	7.19		7.20	0.001100	0.54	54.13	145.18	0.26
asta	820.0001	tr 100	32.36	6.60	7.23		7.25	0.001146	0.59	60.75	150.88	0.27
asta	820.0001	tr 200	37.67	6.60	7.27		7.29	0.001157	0.62	66.74	154.18	0.28
asta	820.0001	tr 500	44.86	6.60	7.32		7.34	0.001163	0.67	74.62	158.36	0.28
asta	800	tr 50	27.15	6.40	7.15		7.17	0.002516	0.90	40.69	140.59	0.40
asta	800	tr 100	32.36	6.40	7.19		7.22	0.002371	0.93	47.17	148.06	0.40
asta	800	tr 200	37.67	6.40	7.23		7.26	0.002267	0.95	53.25	155.32	0.39
asta	800	tr 500	44.86	6.40	7.28		7.31	0.002280	1.01	61.34	161.38	0.40
asta	780	tr 50	27.15	6.37	7.13		7.14	0.000775	0.55	57.03	138.20	0.23
asta	780	tr 100	32.36	6.37	7.17		7.19	0.000874	0.61	63.09	143.04	0.25
asta	780	tr 200	37.67	6.37	7.21		7.23	0.000920	0.65	68.78	145.65	0.26
asta	780	tr 500	44.86	6.37	7.26		7.28	0.000970	0.70	76.03	148.03	0.27
asta	759.9999	tr 50	27.15	6.10	7.10		7.12	0.001350	0.92	48.45	131.61	0.32
asta	759.9999	tr 100	32.36	6.10	7.14		7.16	0.001406	0.97	53.91	134.71	0.33
asta	759.9999	tr 200	37.67	6.10	7.18		7.20	0.001432	1.01	59.07	136.02	0.34
asta	759.9999	tr 500	44.86	6.10	7.23		7.25	0.001466	1.05	65.60	137.73	0.34
asta	740	tr 50	27.15	6.15	7.05		7.08	0.002964	1.27	36.48	113.76	0.46
asta	740	tr 100	32.36	6.15	7.09		7.12	0.002939	1.31	40.98	115.48	0.47
asta	740	tr 200	37.67	6.15	7.12		7.16	0.002970	1.35	45.21	118.12	0.47
asta	740	tr 500	44.86	6.15	7.17		7.21	0.002976	1.40	50.67	120.51	0.48
asta	720.0001	tr 50	27.15	6.16	6.99		7.02	0.002951	1.15	34.97	102.13	0.46
asta	720.0001	tr 100	32.36	6.16	7.02		7.06	0.003054	1.22	38.75	103.66	0.47
asta	720.0001	tr 200	37.67	6.16	7.06		7.10	0.003142	1.27	42.23	104.11	0.48
asta	720.0001	tr 500	44.86	6.16	7.10		7.15	0.003243	1.34	46.66	104.75	0.49
asta	700.0001	tr 50	27.15	5.92	6.88		6.94	0.005898	1.59	27.79	104.87	0.64
asta	700.0001	tr 100	32.36	5.92	6.92		6.98	0.005611	1.62	31.96	106.01	0.63
asta	700.0001	tr 200	37.67	5.92	6.95		7.02	0.005340	1.63	35.85	106.86	0.62
asta	700.0001	tr 500	44.86	5.92	7.00		7.07	0.005156	1.67	40.59	109.72	0.61

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
asta	680.0001	tr 50	27.15	6.28	6.81		6.84	0.003220	1.02	34.26	102.37	0.46
asta	680.0001	tr 100	32.36	6.28	6.85		6.89	0.003229	1.08	38.38	104.44	0.47
asta	680.0001	tr 200	37.67	6.28	6.89		6.93	0.003235	1.13	42.29	105.93	0.47
asta	680.0001	tr 500	44.86	6.28	6.93		6.98	0.003303	1.20	46.96	109.53	0.48
asta	660	tr 50	27.15	5.74	6.73		6.77	0.003968	1.30	31.14	96.20	0.52
asta	660	tr 100	32.36	5.74	6.77		6.81	0.004111	1.37	34.75	100.46	0.53
asta	660	tr 200	37.67	5.74	6.80		6.85	0.004291	1.45	38.28	104.39	0.55
asta	660	tr 500	44.86	5.74	6.84		6.90	0.004321	1.51	42.64	104.91	0.56
asta	640	tr 50	27.15	5.51	6.60		6.67	0.005949	1.91	26.58	94.60	0.66
asta	640	tr 100	32.36	5.51	6.64		6.71	0.005860	1.95	30.35	97.91	0.66
asta	640	tr 200	37.67	5.51	6.67		6.75	0.005784	1.99	33.75	99.09	0.66
asta	640	tr 500	44.86	5.51	6.72		6.80	0.005690	2.04	38.12	100.68	0.66
asta	620	tr 50	27.15	5.33	6.49		6.55	0.005659	1.55	26.57	92.32	0.62
asta	620	tr 100	32.36	5.33	6.52		6.60	0.005859	1.64	29.88	95.89	0.64
asta	620	tr 200	37.67	5.33	6.56		6.64	0.005746	1.68	33.39	98.05	0.64
asta	620	tr 500	44.86	5.33	6.60		6.69	0.005766	1.75	37.66	101.38	0.65
asta	600	tr 50	27.15	5.19	6.35		6.43	0.006327	1.64	25.28	91.21	0.66
asta	600	tr 100	32.36	5.19	6.40		6.48	0.006019	1.67	29.17	94.41	0.65
asta	600	tr 200	37.67	5.19	6.43		6.52	0.005966	1.72	32.76	97.01	0.65
asta	600	tr 500	44.86	5.19	6.48		6.57	0.005901	1.78	37.10	99.18	0.66
asta	580	tr 50	27.15	5.16	6.26		6.32	0.004372	1.61	28.89	98.32	0.57
asta	580	tr 100	32.36	5.16	6.31		6.37	0.004296	1.66	33.36	102.16	0.57
asta	580	tr 200	37.67	5.16	6.35		6.41	0.004164	1.68	37.63	104.46	0.57
asta	580	tr 500	44.86	5.16	6.39		6.47	0.004082	1.73	42.66	108.88	0.57
asta	560	tr 50	27.15	5.64	6.17		6.22	0.005480	1.18	26.38	79.79	0.58
asta	560	tr 100	32.36	5.64	6.21		6.27	0.005619	1.27	29.93	84.83	0.60
asta	560	tr 200	37.67	5.64	6.26		6.32	0.005145	1.29	33.89	91.75	0.58
asta	560	tr 500	44.86	5.64	6.30		6.37	0.005145	1.37	38.21	101.14	0.59
asta	540	tr 50	27.15	5.28	6.12		6.15	0.002386	1.12	35.24	92.72	0.42
asta	540	tr 100	32.36	5.28	6.16		6.19	0.002504	1.19	39.00	96.02	0.44
asta	540	tr 200	37.67	5.28	6.20		6.24	0.002861	1.32	43.09	104.33	0.47
asta	540	tr 500	44.86	5.28	6.24		6.29	0.002941	1.39	47.78	105.49	0.48
asta	520	tr 50	27.15	5.06	5.97		6.06	0.007454	1.73	23.48	87.24	0.72
asta	520	tr 100	32.36	5.06	6.01		6.11	0.007376	1.79	26.94	90.97	0.72
asta	520	tr 200	37.67	5.06	6.05		6.15	0.007147	1.83	30.36	93.37	0.72
asta	520	tr 500	44.86	5.06	6.09		6.20	0.007024	1.89	34.44	95.00	0.72
asta	500	tr 50	27.15	5.41	5.94		5.97	0.002490	0.89	39.42	123.97	0.40
asta	500	tr 100	32.36	5.41	5.98		6.01	0.002450	0.93	44.52	126.65	0.41
asta	500	tr 200	37.67	5.41	6.02		6.05	0.002491	0.98	49.37	131.11	0.41
asta	500	tr 500	44.86	5.41	6.06		6.10	0.002456	1.02	55.51	133.67	0.42
asta	480	tr 50	27.15	4.70	5.84		5.90	0.004064	1.64	31.15	110.78	0.55
asta	480	tr 100	32.36	4.70	5.89		5.94	0.003988	1.68	36.22	116.50	0.55
asta	480	tr 200	37.67	4.70	5.93		5.99	0.003688	1.67	41.38	119.48	0.53
asta	480	tr 500	44.86	4.70	5.98		6.04	0.003373	1.65	47.84	120.93	0.52
asta	460	tr 50	27.15	4.41	5.79		5.83	0.002602	1.27	38.08	126.16	0.43
asta	460	tr 100	32.36	4.41	5.84		5.88	0.002378	1.26	44.33	128.95	0.42
asta	460	tr 200	37.67	4.41	5.89		5.92	0.002185	1.25	50.54	131.30	0.41
asta	460	tr 500	44.86	4.41	5.95		5.98	0.002036	1.26	58.09	133.34	0.40
asta	440	tr 50	27.15	4.41	5.75		5.78	0.001867	1.30	42.09	124.60	0.39
asta	440	tr 100	32.36	4.41	5.80		5.83	0.001766	1.30	48.65	129.11	0.38
asta	440	tr 200	37.67	4.41	5.85		5.88	0.001666	1.30	55.27	133.39	0.37
asta	440	tr 500	44.86	4.41	5.91		5.94	0.001588	1.31	63.28	136.82	0.37
asta	420	tr 50	27.15	4.10	5.72		5.75	0.001337	1.18	43.28	108.04	0.33
asta	420	tr 100	32.36	4.10	5.77		5.80	0.001384	1.23	48.77	109.88	0.34
asta	420	tr 200	37.67	4.10	5.82		5.85	0.001387	1.26	54.25	112.67	0.34
asta	420	tr 500	44.86	4.10	5.88		5.91	0.001415	1.31	60.80	115.32	0.35
asta	400.0001	tr 50	27.15	4.10	5.69		5.72	0.001756	1.17	38.61	98.82	0.37
asta	400.0001	tr 100	32.36	4.10	5.73		5.77	0.001845	1.23	43.42	103.44	0.38
asta	400.0001	tr 200	37.67	4.10	5.78		5.82	0.001805	1.26	48.62	105.34	0.38
asta	400.0001	tr 500	44.86	4.10	5.84		5.88	0.001833	1.31	54.59	107.62	0.39
asta	380	tr 50	27.15	3.94	5.59		5.67	0.003530	1.73	27.55	82.55	0.53
asta	380	tr 100	32.36	3.94	5.64		5.72	0.003496	1.77	31.71	87.96	0.53
asta	380	tr 200	37.67	3.94	5.68		5.77	0.003544	1.84	36.19	92.69	0.54
asta	380	tr 500	44.86	3.94	5.75		5.83	0.003294	1.83	42.23	97.11	0.52
asta	360	tr 50	27.15	3.86	5.42	5.42	5.57	0.006422	2.23	20.80	61.83	0.70
asta	360	tr 100	32.36	3.86	5.48	5.46	5.62	0.006194	2.26	24.25	64.86	0.69

HEC-RAS Plan: Plan 01 River: Lazerretto Reach: asta (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
asta	360	tr 200	37.67	3.86	5.52	5.50	5.67	0.006512	2.38	26.74	66.75	0.72
asta	360	tr 500	44.86	3.86	5.57		5.73	0.006557	2.47	30.82	71.96	0.72
asta	340	tr 50	27.15	3.83	5.30	5.28	5.43	0.006168	2.17	21.11	58.90	0.69
asta	340	tr 100	32.36	3.83	5.32	5.31	5.48	0.007664	2.44	22.22	59.71	0.77
asta	340	tr 200	37.67	3.83	5.37	5.36	5.53	0.007233	2.46	25.54	62.61	0.75
asta	340	tr 500	44.86	3.83	5.46		5.60	0.006039	2.36	31.08	66.39	0.70
asta	320.0001	tr 50	27.15	3.51	5.09	5.09	5.30	0.006139	2.59	17.73	41.60	0.72
asta	320.0001	tr 100	32.36	3.51	5.18	5.18	5.35	0.005147	2.48	23.71	58.56	0.67
asta	320.0001	tr 200	37.67	3.51	5.23	5.23	5.40	0.005414	2.60	26.30	61.50	0.69
asta	320.0001	tr 500	44.86	3.51	5.26	5.26	5.47	0.006293	2.85	28.61	64.78	0.75
asta	300	tr 50	27.15	3.99	4.68	4.80	5.05	0.028205	3.44	11.39	44.06	1.41
asta	300	tr 100	32.36	3.99	4.72	4.86	5.12	0.028799	3.63	13.38	50.99	1.44
asta	300	tr 200	37.67	3.99	4.76	4.87	5.17	0.028038	3.71	15.30	53.02	1.43
asta	300	tr 500	44.86	3.99	4.81	4.95	5.22	0.026649	3.79	17.90	55.72	1.41
asta	280	tr 50	27.15	3.36	4.43	4.47	4.65	0.012036	2.63	15.09	40.39	0.95
asta	280	tr 100	32.36	3.36	4.50	4.49	4.72	0.011342	2.70	17.90	45.51	0.93
asta	280	tr 200	37.67	3.36	4.54	4.56	4.78	0.011599	2.82	19.87	47.49	0.95
asta	280	tr 500	44.86	3.36	4.63	4.65	4.86	0.010011	2.79	24.90	57.66	0.90
asta	260.0001	tr 50	27.15	3.21	4.28	4.26	4.43	0.010202	2.30	17.19	46.93	0.86
asta	260.0001	tr 100	32.36	3.21	4.34		4.50	0.009569	2.34	20.02	49.53	0.84
asta	260.0001	tr 200	37.67	3.21	4.38		4.55	0.009528	2.42	22.24	50.63	0.85
asta	260.0001	tr 500	44.86	3.21	4.44	4.41	4.62	0.009501	2.53	25.15	52.30	0.85
asta	239.9999	tr 50	27.15	3.00	4.14		4.25	0.007164	2.02	19.70	49.32	0.72
asta	239.9999	tr 100	32.36	3.00	4.18		4.31	0.007763	2.19	22.18	54.12	0.76
asta	239.9999	tr 200	37.67	3.00	4.23		4.37	0.007965	2.29	24.52	56.04	0.78
asta	239.9999	tr 500	44.86	3.00	4.28		4.44	0.008064	2.40	27.80	59.36	0.79
asta	220	tr 50	27.15	3.04	4.10		4.15	0.002686	1.35	31.22	71.95	0.46
asta	220	tr 100	32.36	3.04	4.16		4.20	0.002697	1.40	35.08	74.65	0.46
asta	220	tr 200	37.67	3.04	4.20		4.25	0.002774	1.47	38.53	77.25	0.47
asta	220	tr 500	44.86	3.04	4.26		4.32	0.002908	1.56	43.13	79.79	0.49
asta	200	tr 50	27.15	2.78	4.08		4.11	0.001201	0.99	42.29	86.51	0.31
asta	200	tr 100	32.36	2.78	4.13		4.16	0.001250	1.05	46.89	87.61	0.32
asta	200	tr 200	37.67	2.78	4.18		4.21	0.001326	1.11	50.87	90.33	0.33
asta	200	tr 500	44.86	2.78	4.24		4.27	0.001399	1.17	56.21	93.10	0.34
asta	193.8233	tr 50	27.15	3.15	4.08		4.10	0.001089	0.71	43.46	87.50	0.28
asta	193.8233	tr 100	32.36	3.15	4.13		4.15	0.001304	0.82	48.31	96.66	0.31
asta	193.8233	tr 200	37.67	3.15	4.17		4.20	0.001373	0.87	52.67	98.51	0.32
asta	193.8233	tr 500	44.86	3.15	4.23		4.26	0.001435	0.94	58.47	100.93	0.33
asta	183.3346	tr 50	27.15	3.22	4.07		4.09	0.000761	0.63	51.63	100.64	0.24
asta	183.3346	tr 100	32.36	3.22	4.12		4.14	0.000872	0.71	56.86	105.13	0.26
asta	183.3346	tr 200	37.67	3.22	4.17		4.19	0.000928	0.76	61.56	106.81	0.27
asta	183.3346	tr 500	44.86	3.22	4.22		4.25	0.000984	0.82	67.84	109.44	0.28
asta	170.8809	tr 50	27.15	3.53	3.99		4.06	0.007755	1.37	23.92	82.25	0.69
asta	170.8809	tr 100	32.36	3.53	4.03		4.11	0.007329	1.44	27.94	90.02	0.68
asta	170.8809	tr 200	37.67	3.53	4.08		4.16	0.006737	1.46	32.01	94.45	0.67
asta	170.8809	tr 500	44.86	3.53	4.14		4.22	0.005934	1.48	37.91	100.76	0.64
asta	161.8189	tr 50	27.15	3.10	3.91		3.94	0.019109	1.10	35.76	95.56	0.42
asta	161.8189	tr 100	32.36	3.10	3.96		4.00	0.017883	1.12	41.07	97.19	0.41
asta	161.8189	tr 200	37.67	3.10	4.01		4.05	0.017103	1.14	46.08	100.39	0.40
asta	161.8189	tr 500	44.86	3.10	4.08		4.12	0.016297	1.17	53.07	106.75	0.40
asta	154.1105	tr 50	27.15	2.80	3.78		3.81	0.014700	1.11	36.28	81.69	0.38
asta	154.1105	tr 100	32.36	2.80	3.83		3.87	0.015015	1.17	41.00	83.75	0.39
asta	154.1105	tr 200	37.67	2.80	3.89		3.93	0.014481	1.19	45.76	85.74	0.38
asta	154.1105	tr 500	44.86	2.80	3.96		4.01	0.013619	1.22	52.66	97.07	0.38
asta	149.0477	tr 50	27.15	2.78	3.70		3.73	0.015214	1.13	36.15	81.92	0.39
asta	149.0477	tr 100	32.36	2.78	3.76		3.79	0.014906	1.17	40.92	83.40	0.39
asta	149.0477	tr 200	37.67	2.78	3.82		3.86	0.014266	1.19	46.01	87.84	0.38
asta	149.0477	tr 500	44.86	2.78	3.90		3.94	0.013763	1.23	53.48	99.26	0.38
asta	144.2507	tr 50	27.15	2.76	3.62		3.65	0.017771	1.19	33.15	70.40	0.41
asta	144.2507	tr 100	32.36	2.76	3.68		3.72	0.017608	1.24	37.24	72.63	0.42
asta	144.2507	tr 200	37.67	2.76	3.74		3.78	0.016656	1.26	41.97	78.40	0.41
asta	144.2507	tr 500	44.86	2.76	3.81		3.86	0.018877	1.41	48.27	93.12	0.44
asta	140	tr 50	27.15	2.71	3.53		3.57	0.021432	1.19	31.13	71.61	0.44
asta	140	tr 100	32.36	2.71	3.59		3.63	0.020327	1.22	35.53	72.84	0.44
asta	140	tr 200	37.67	2.71	3.65		3.70	0.020472	1.29	40.49	84.47	0.45
asta	140	tr 500	44.86	2.71	3.72		3.78	0.019413	1.33	46.78	90.91	0.44

HEC-RAS Plan: Plan 01 River: Lazzeretto Reach: asta (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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
asta	120	tr 50	27.15	2.34	3.23		3.26	0.011458	0.96	37.05	72.13	0.33
asta	120	tr 100	32.36	2.34	3.30		3.33	0.011532	1.01	42.01	76.16	0.34
asta	120	tr 200	37.67	2.34	3.36		3.39	0.011630	1.06	46.84	80.68	0.34
asta	120	tr 500	44.86	2.34	3.43		3.47	0.011721	1.12	53.24	85.09	0.35
asta	99.99995	tr 50	27.15	2.04	3.03		3.05	0.009126	0.93	40.91	72.48	0.30
asta	99.99995	tr 100	32.36	2.04	3.09		3.12	0.009163	0.98	45.70	73.66	0.31
asta	99.99995	tr 200	37.67	2.04	3.15		3.18	0.009346	1.02	50.08	75.86	0.31
asta	99.99995	tr 500	44.86	2.04	3.23		3.26	0.009606	1.08	55.67	78.81	0.32
asta	80.00003	tr 50	27.15	2.11	2.87		2.89	0.007653	0.72	43.83	74.88	0.27
asta	80.00003	tr 100	32.36	2.11	2.93		2.95	0.007819	0.77	48.62	76.26	0.27
asta	80.00003	tr 200	37.67	2.11	2.98		3.01	0.008176	0.82	52.69	77.41	0.28
asta	80.00003	tr 500	44.86	2.11	3.05		3.08	0.008687	0.89	57.70	79.25	0.29
asta	59.99999	tr 50	27.15	1.66	2.59		2.64	0.024012	1.41	29.97	85.83	0.48
asta	59.99999	tr 100	32.36	1.66	2.65		2.70	0.023844	1.47	35.26	88.39	0.49
asta	59.99999	tr 200	37.67	1.66	2.69		2.75	0.023149	1.50	39.57	89.69	0.48
asta	59.99999	tr 500	44.86	1.66	2.76		2.82	0.021966	1.52	45.35	91.05	0.48
asta	39.99999	tr 50	27.15	1.32	2.10		2.16	0.023859	1.27	26.85	53.33	0.47
asta	39.99999	tr 100	32.36	1.32	2.17		2.23	0.022639	1.31	30.69	54.55	0.46
asta	39.99999	tr 200	37.67	1.32	2.24		2.30	0.021438	1.35	34.53	55.65	0.46
asta	39.99999	tr 500	44.86	1.32	2.33	2.03	2.40	0.020036	1.39	39.54	56.74	0.45
asta	20.00003	tr 50	27.15	1.10	1.78		1.81	0.012435	0.84	38.68	84.39	0.33
asta	20.00003	tr 100	32.36	1.10	1.78		1.82	0.018479	1.01	38.07	83.56	0.40
asta	20.00003	tr 200	37.67	1.10	1.77		1.82	0.026652	1.20	37.23	82.46	0.48
asta	20.00003	tr 500	44.86	1.10	1.75		1.83	0.042436	1.49	35.75	80.88	0.61
asta	5.006337	tr 50	27.15	0.04	1.80	0.29	1.80	0.000040	0.09	353.26	252.42	0.02
asta	5.006337	tr 100	32.36	0.04	1.80	0.32	1.80	0.000057	0.11	353.26	252.42	0.03
asta	5.006337	tr 200	37.67	0.04	1.80	0.34	1.80	0.000078	0.12	353.26	252.42	0.03
asta	5.006337	tr 500	44.86	0.04	1.80	0.36	1.80	0.000110	0.15	353.26	252.42	0.04