



CIUTAT DE L'ALGUER
CITTA' DI ALGHERO

COMUNE DI ALGHERO

PROVINCIA DI SASSARI



REGIONE AUTONOMA DE SARDIGNA
REGIONE AUTONOMA DELLA SARDEGNA

VARIANTE AL PAI, ex art. 37 comma 3 delle NTA del PAI a seguito di Studio di Assetto idraulico e geologico del territorio comunale

ELABORATO :

REPORT DEI CALCOLI IDRAULICI IN MOTO PERMANENTE

REVISIONI				ALLEGATO	SCALA	
n°	MODIFICA	DATA	CTRL		CODICE	
01	Consegna	Feb. 2021	FC	C-1		
02	Revisione	Dic. 2022	FC		NOTE	

I Professionisti incaricati :



Studio Associato
4E-INGEGNERIA
Dott. Ing. Fabio Cambula

Il Dirigente

Ing. Michele Fois

Ufficio del Piano Urbanistico
Arch. Angelo Manunta

Geom. Franco Cherchi

L'Assessore all'Urbanistica
Dott. Emiliano Piras

Il Sindaco:

Dott. Mario Conoci

COMUNE DI ALGHERO

VARIANTE AL PAI, ex art. 37 comma 3 delle NTA del PAI a seguito di Studio di Assetto idraulico e geologico del territorio comunale ai sensi dell'art.8 comma 2 delle N.A. del PAI

Area di indagine: **TERRITORIO COMUNALE**

SIMULAZIONI IN MOTO PERMANENTE

Il presente elaborato contiene i seguenti modelli:

- Modello 1 – Rio Lazzaretto;
- Modello 2 – Gruppo Canale Urune;
- Modello 3 – Gruppo Rio Serra;
- Modello 4 – Pischina Salida.

COMUNE DI ALGHERO

VARIANTE AL PAI, ex art. 37 comma 3 delle NTA del PAI a seguito di Studio di Assetto idraulico e geologico del territorio comunale ai sensi dell'art.8 comma 2 delle N.A. del PAI

Area di indagine: **TERRITORIO COMUNALE**

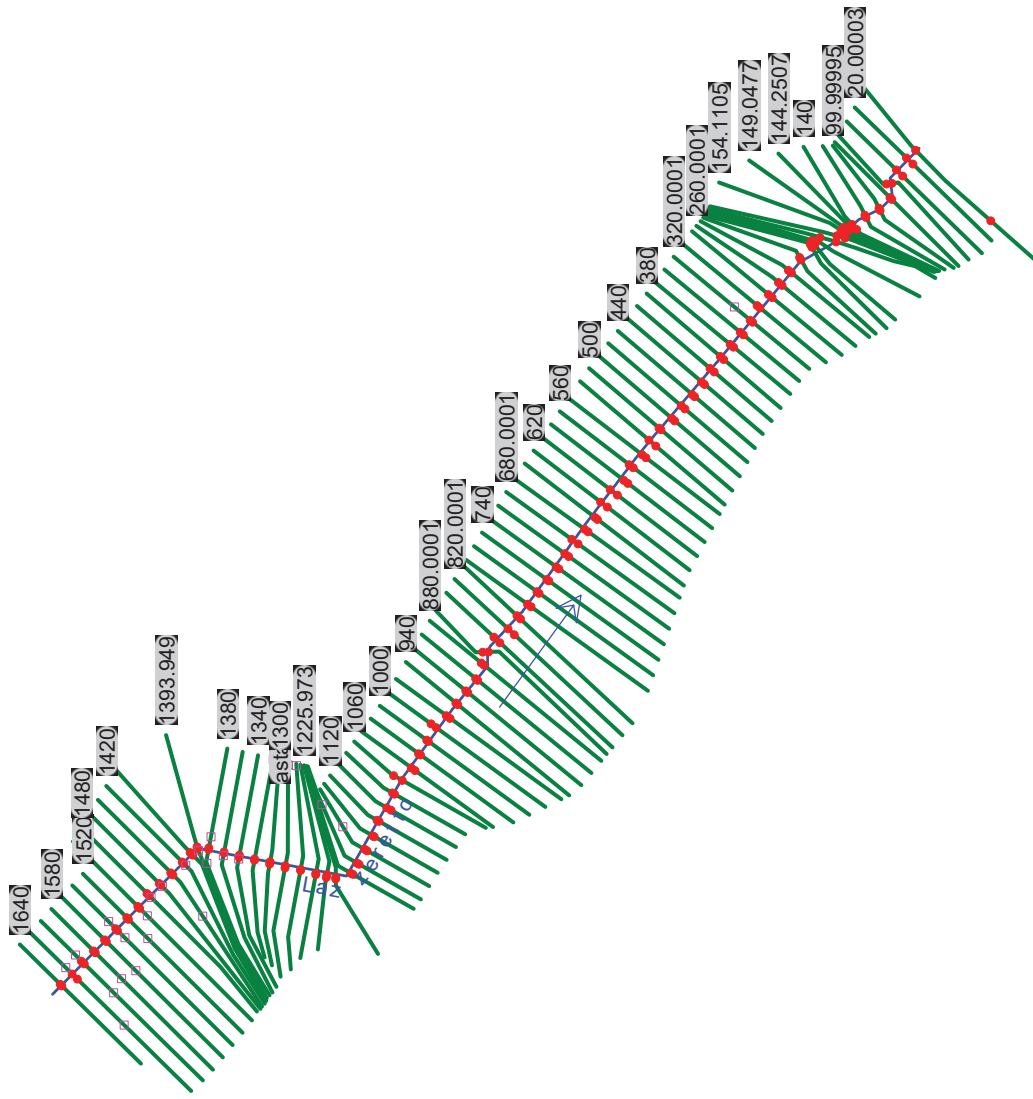
SIMULAZIONI IN MOTO PERMANENTE

Modello 1 – rio Lazzaretto

- Schema planimetrico del modello matematico;
- Profili longitudinali con livelli idrici per i tempi di ritorno 50, 100, 200 e 500 anni;
- Sezioni trasversali con livelli idrici per i tempi di ritorno 50, 100, 200 e 500 anni;
- Tabulati numerici di output per i tempi di ritorno 50, 100, 200 e 500 anni;

River	Reach	RS	PORTATE mc/s			
			tr 50	tr 100	tr 200	tr 500
Lazzaretto	asta	1640	27,148	32,363	37,667	44,863

River	Reach	PROFILI	condizioni al contorno	
			upstream	downstream
Lazzaretto	asta	all	Critical Depth	Known WS

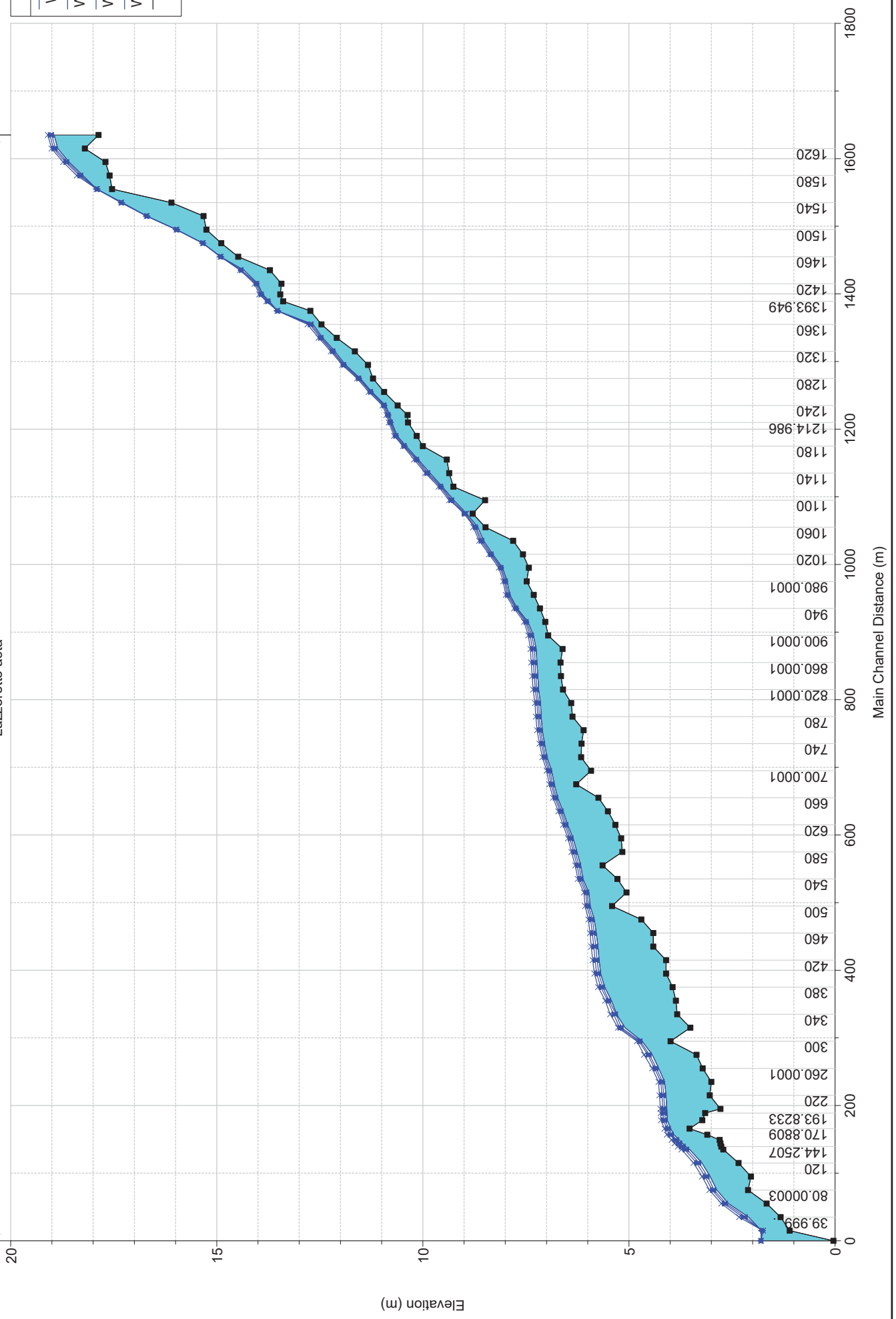


lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA

Lazzaretto asta

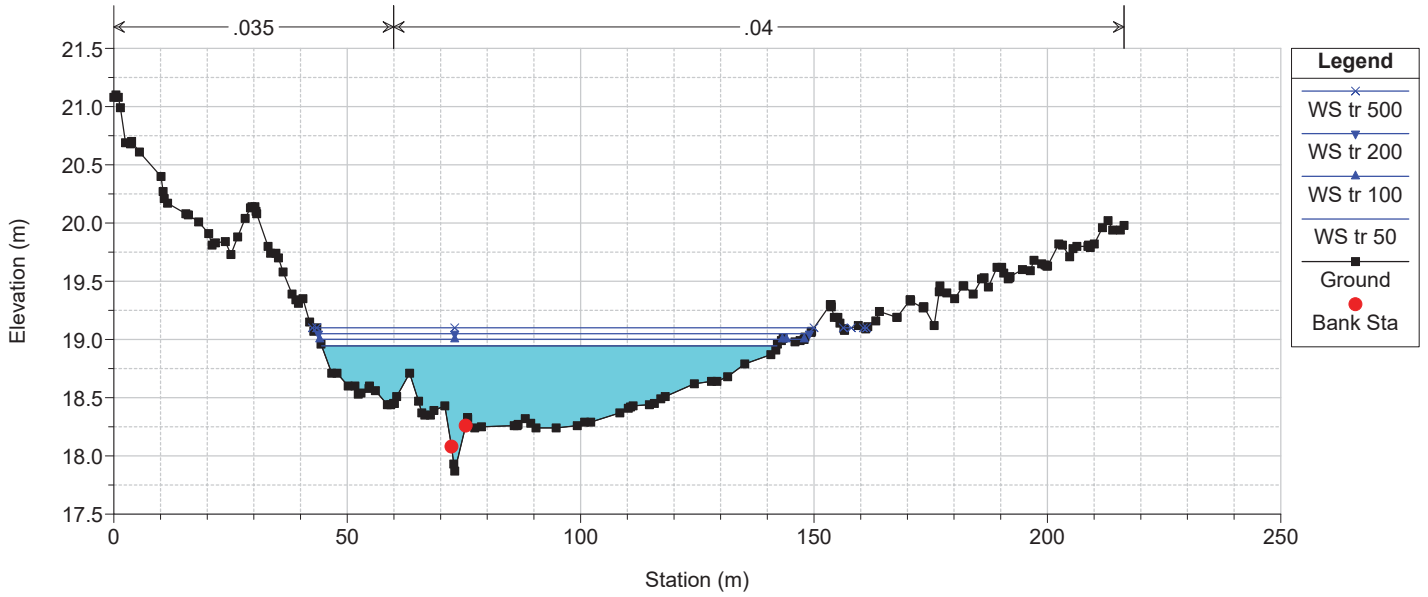
Legend	
WS tr 50	—
WS tr 100	—▲
WS tr 200	—■
WS tr 500	—×
Ground	—■



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

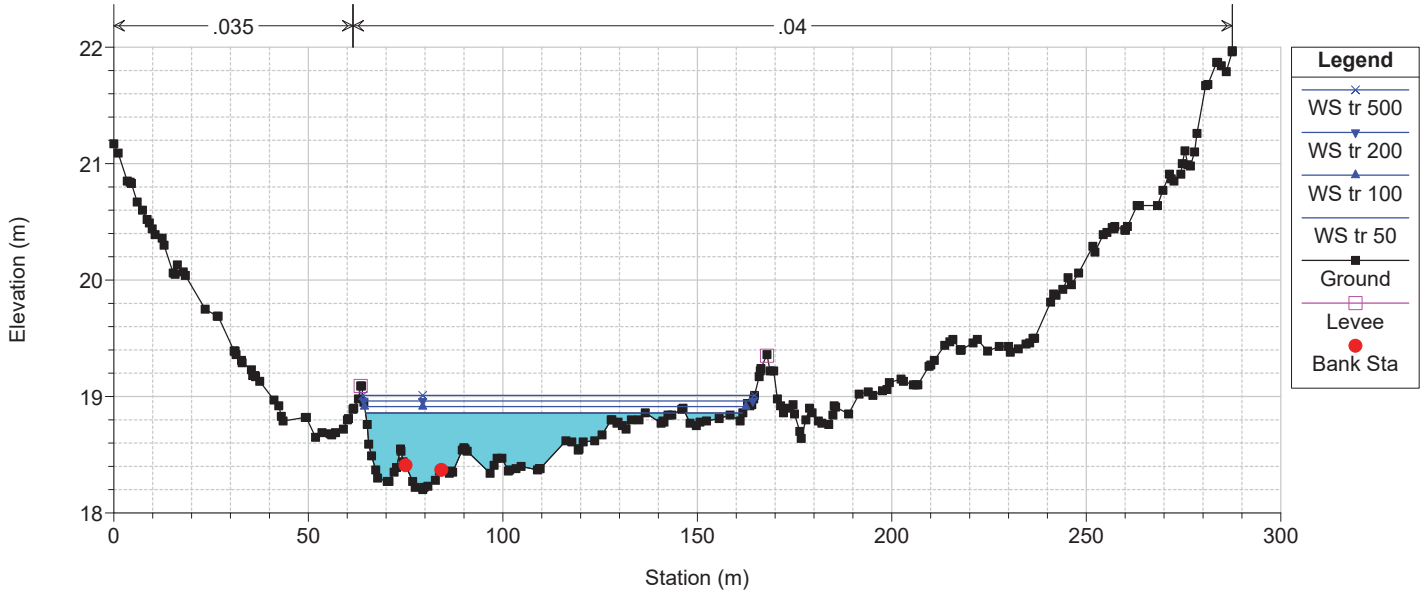
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lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

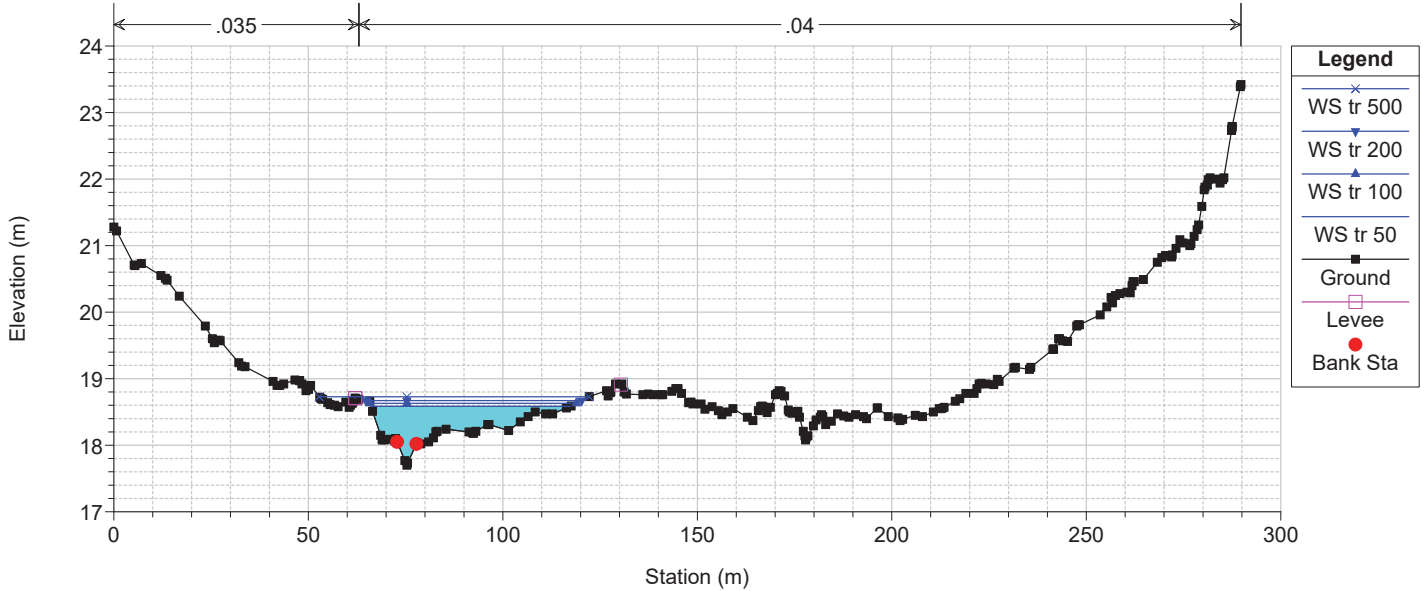
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lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

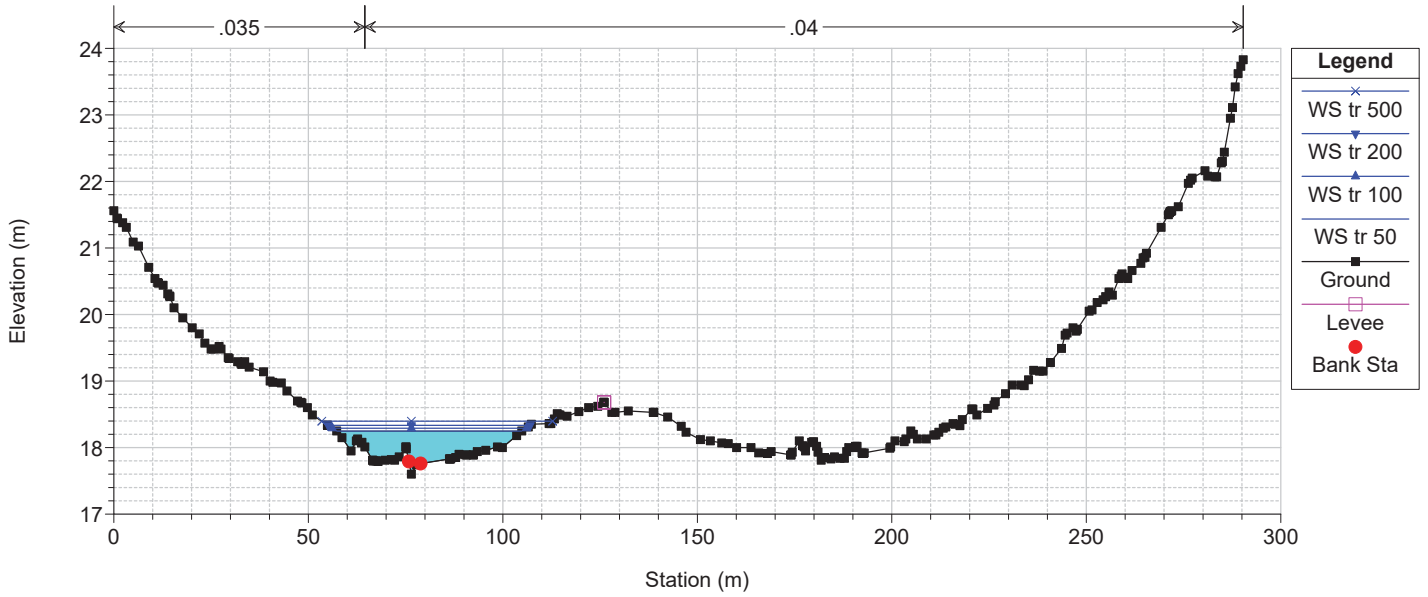
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lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

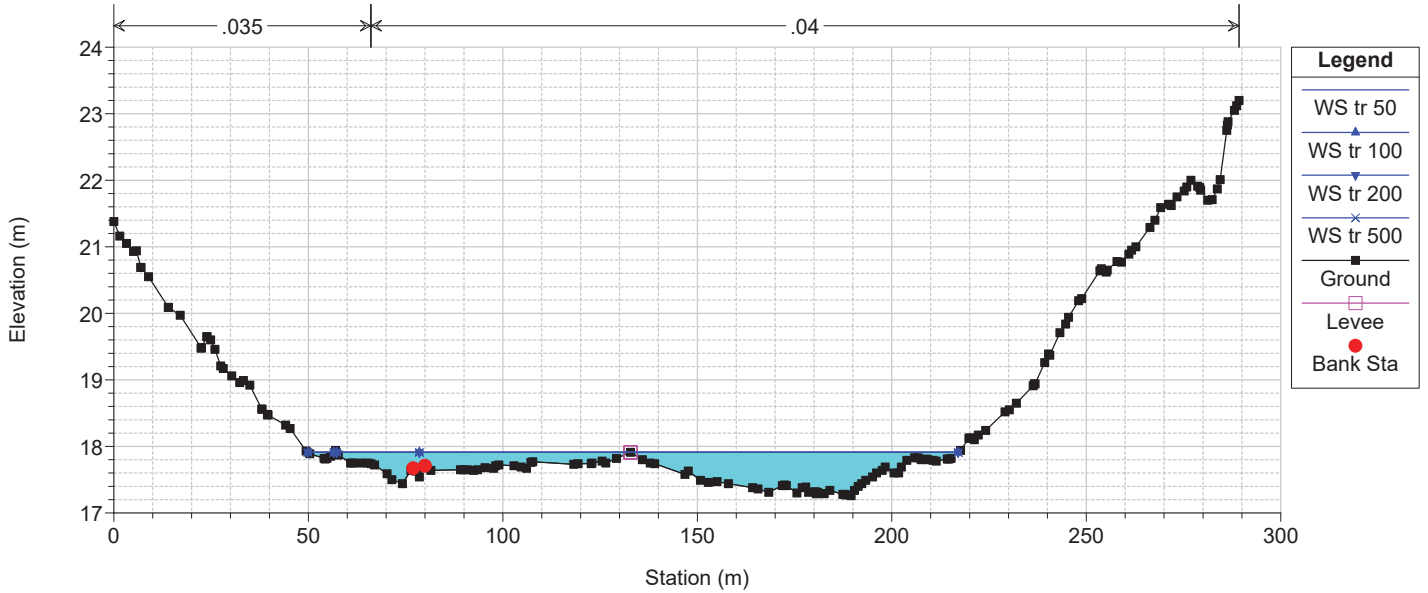
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lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

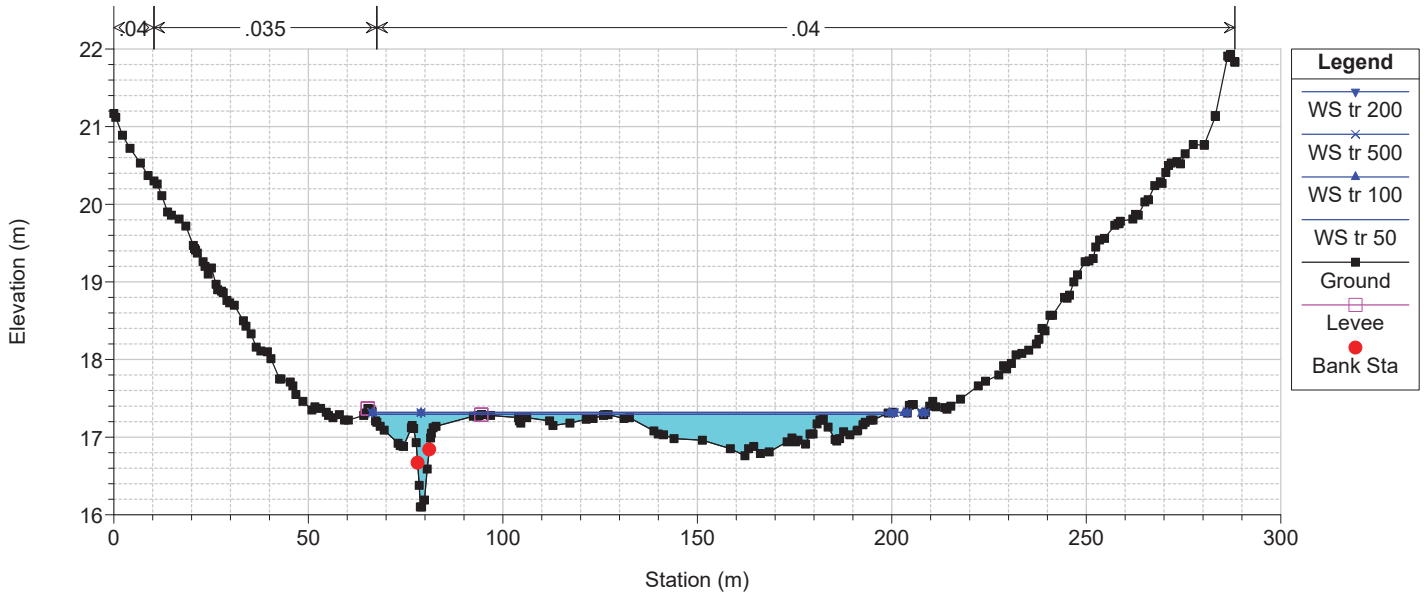
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lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

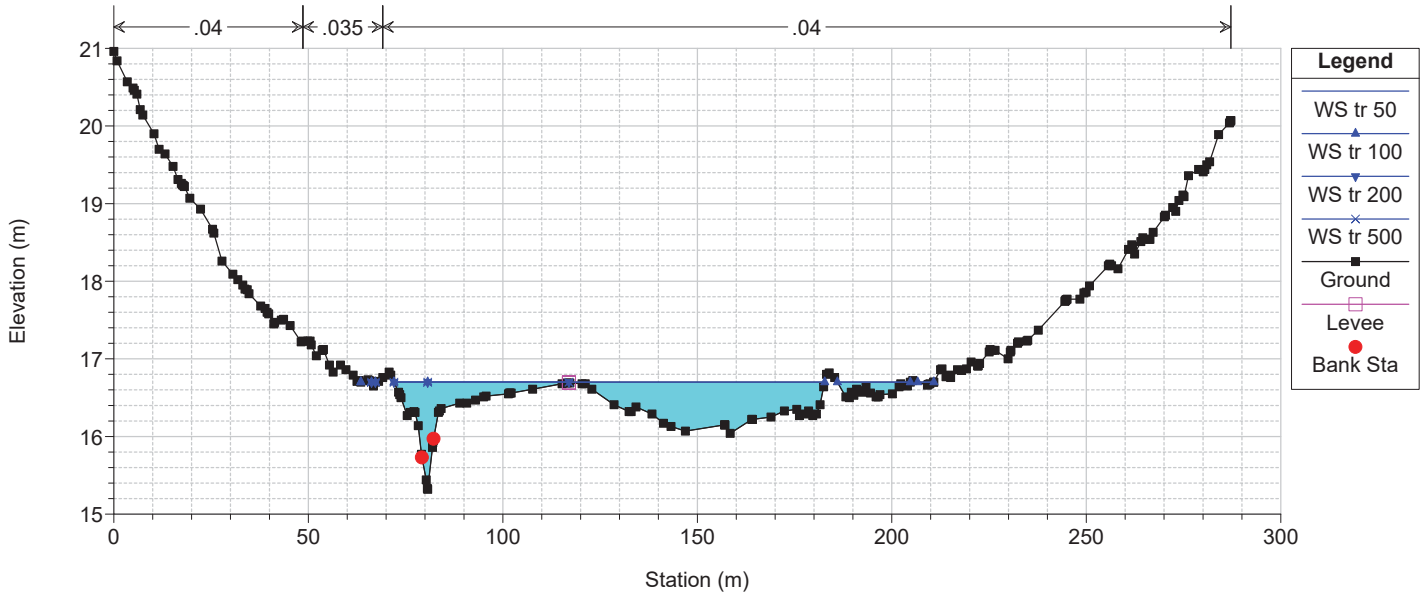
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lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

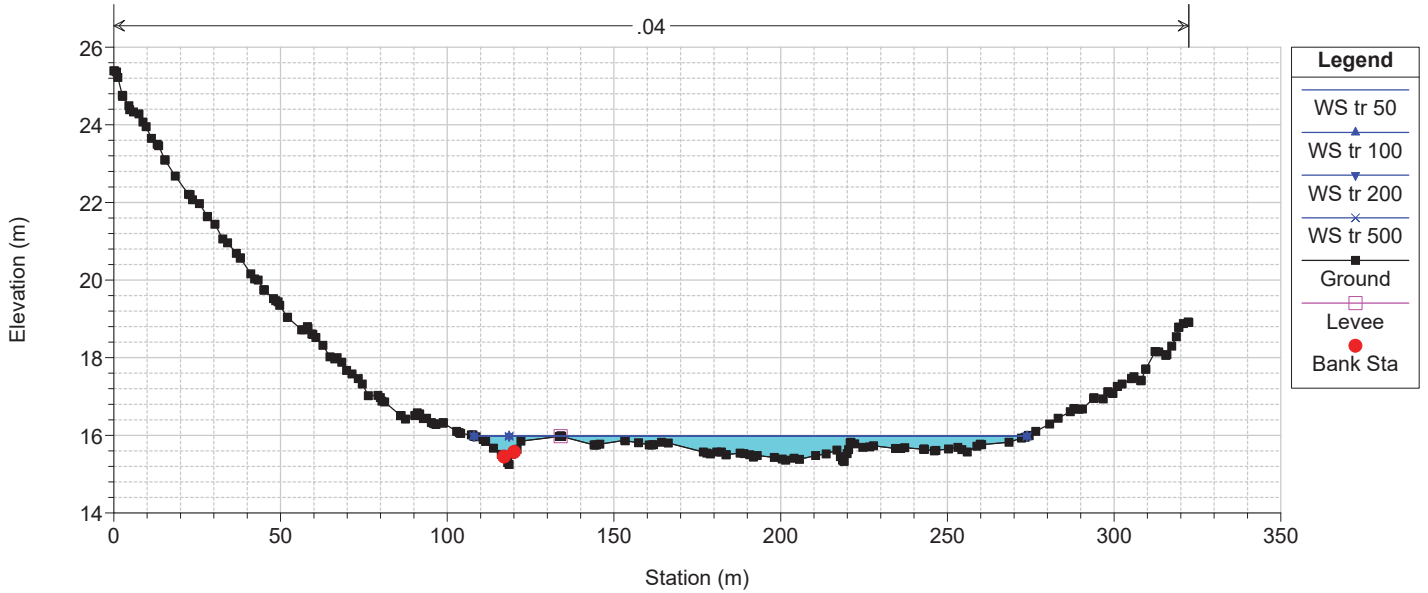
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lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

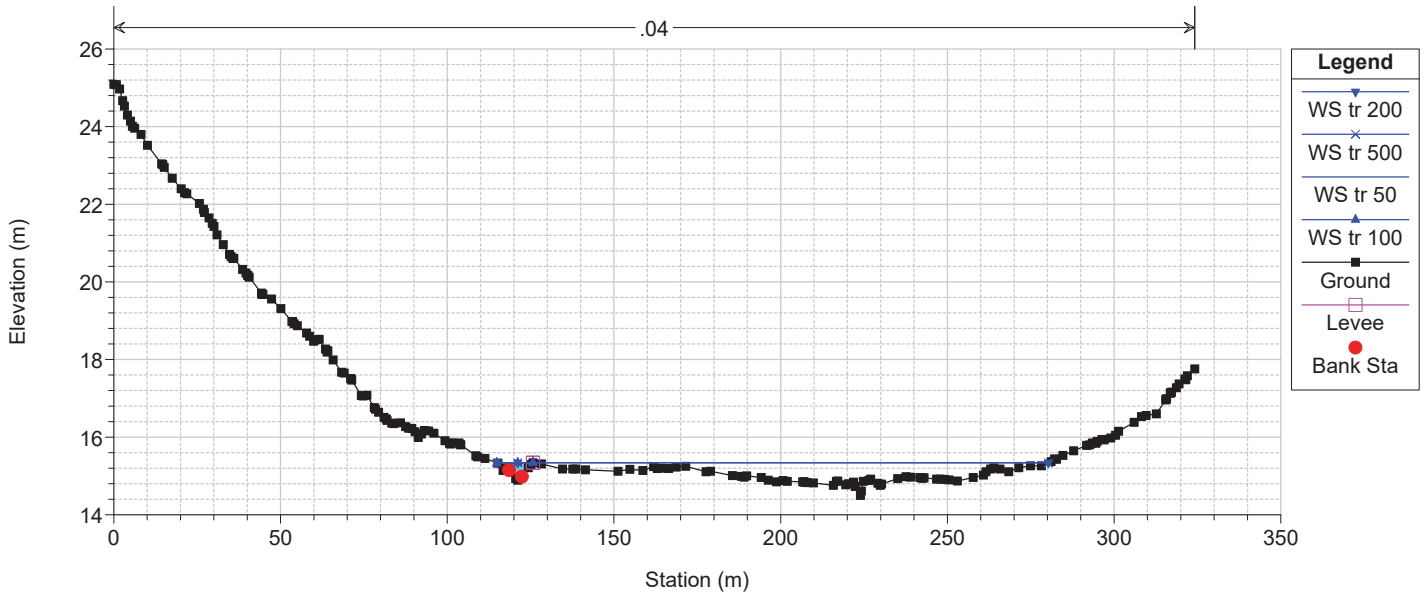
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lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

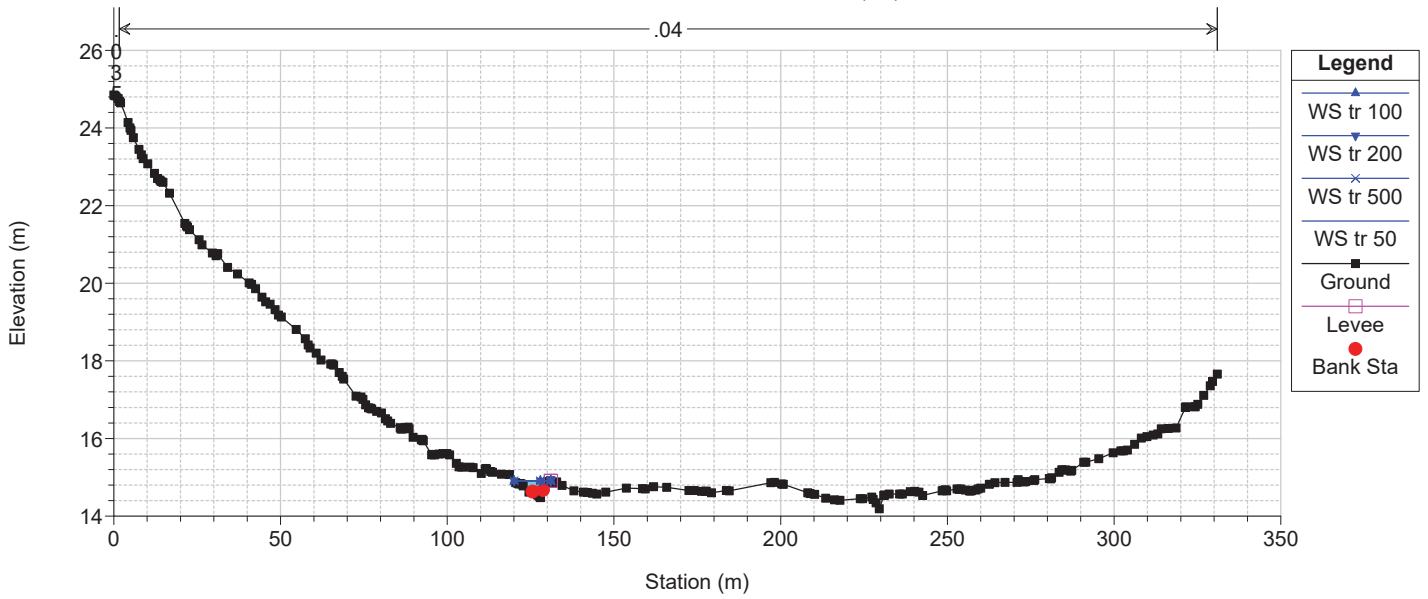
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lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

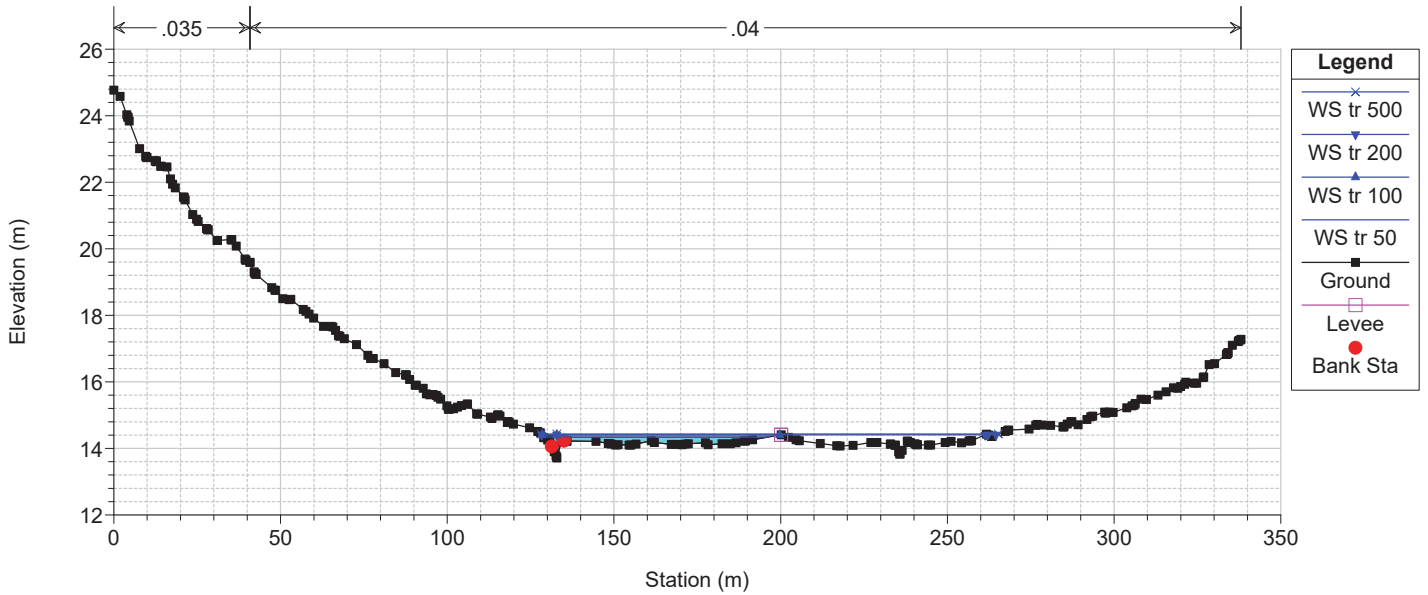
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lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

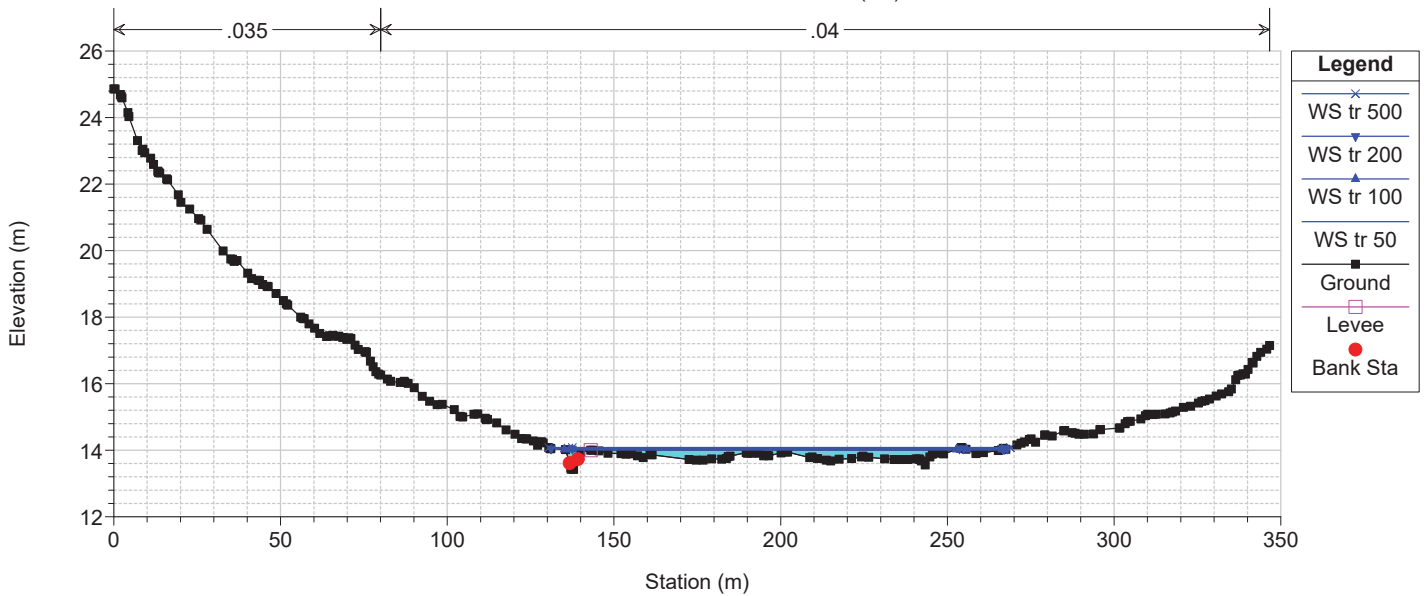
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lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

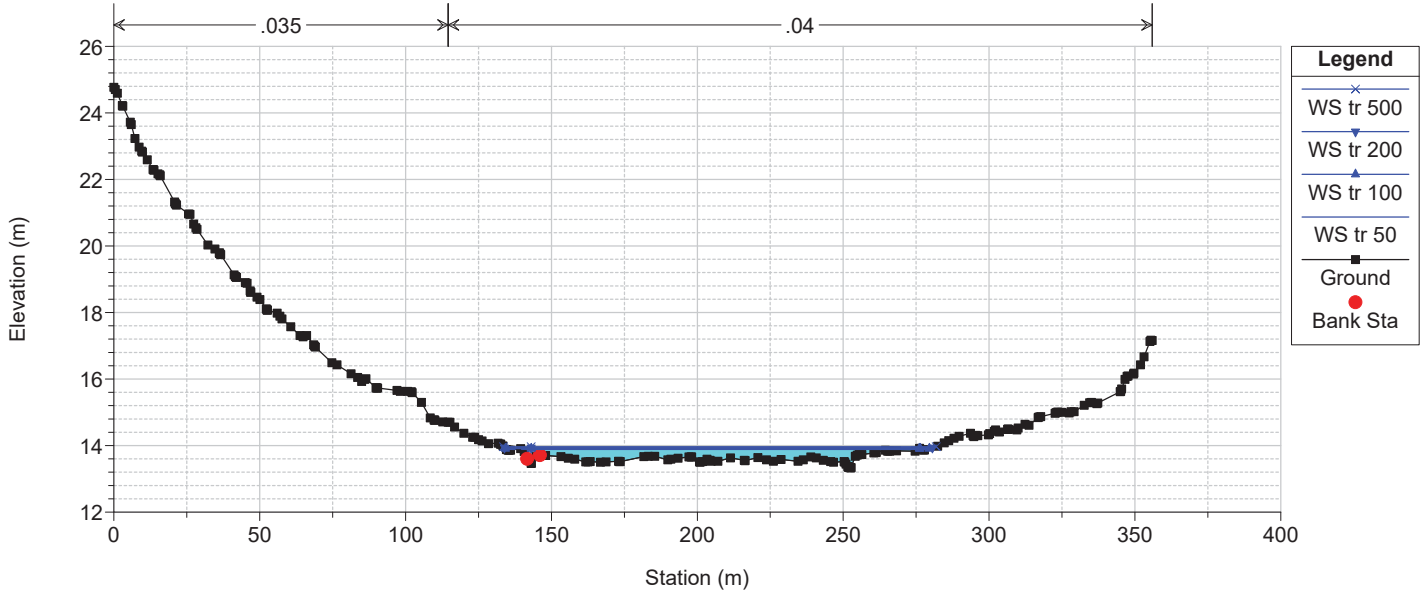
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lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

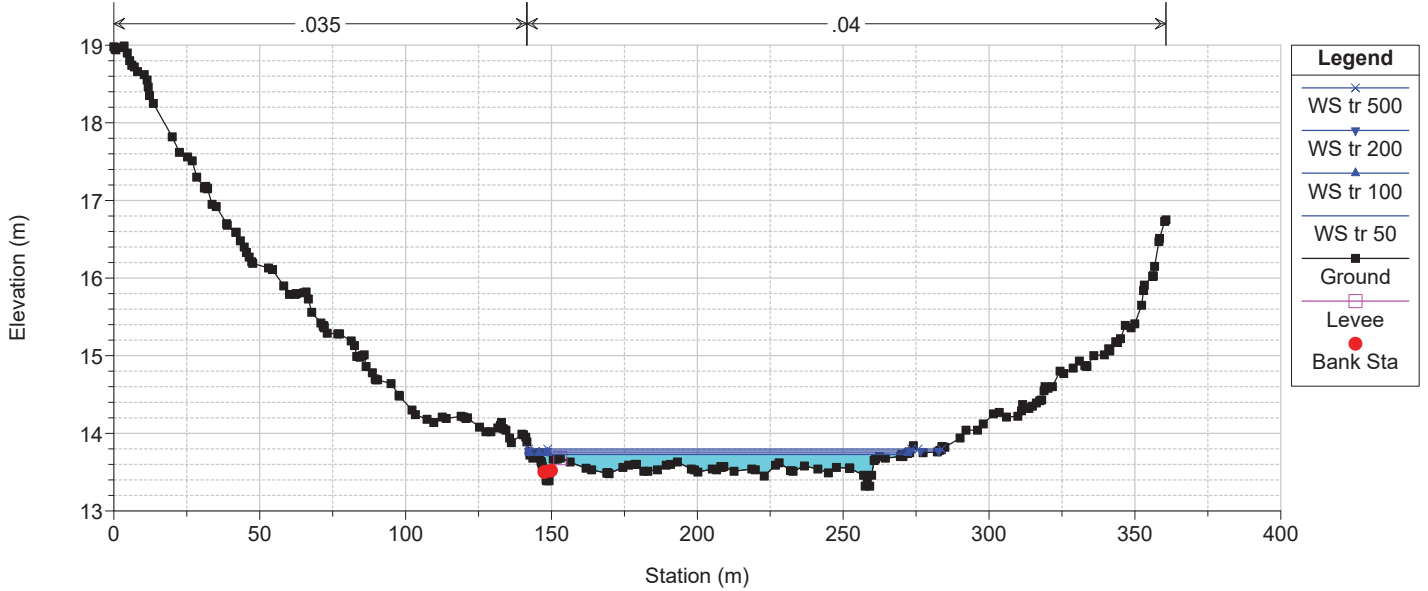
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lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

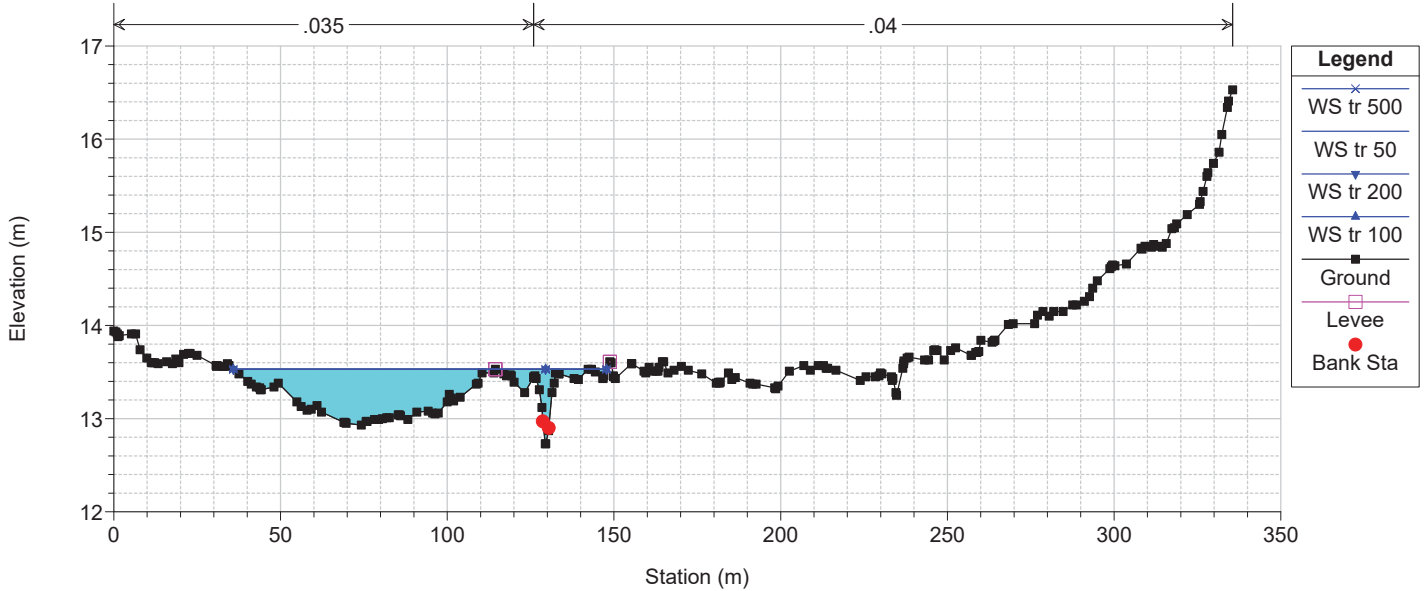
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lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

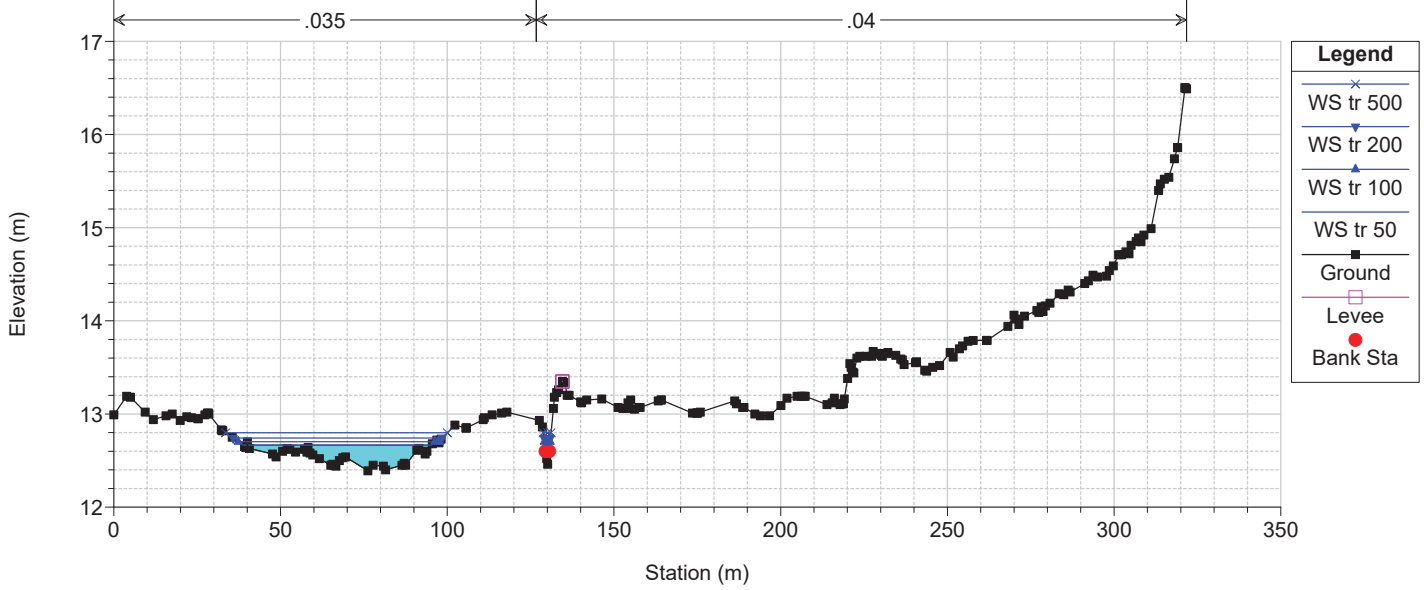
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lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

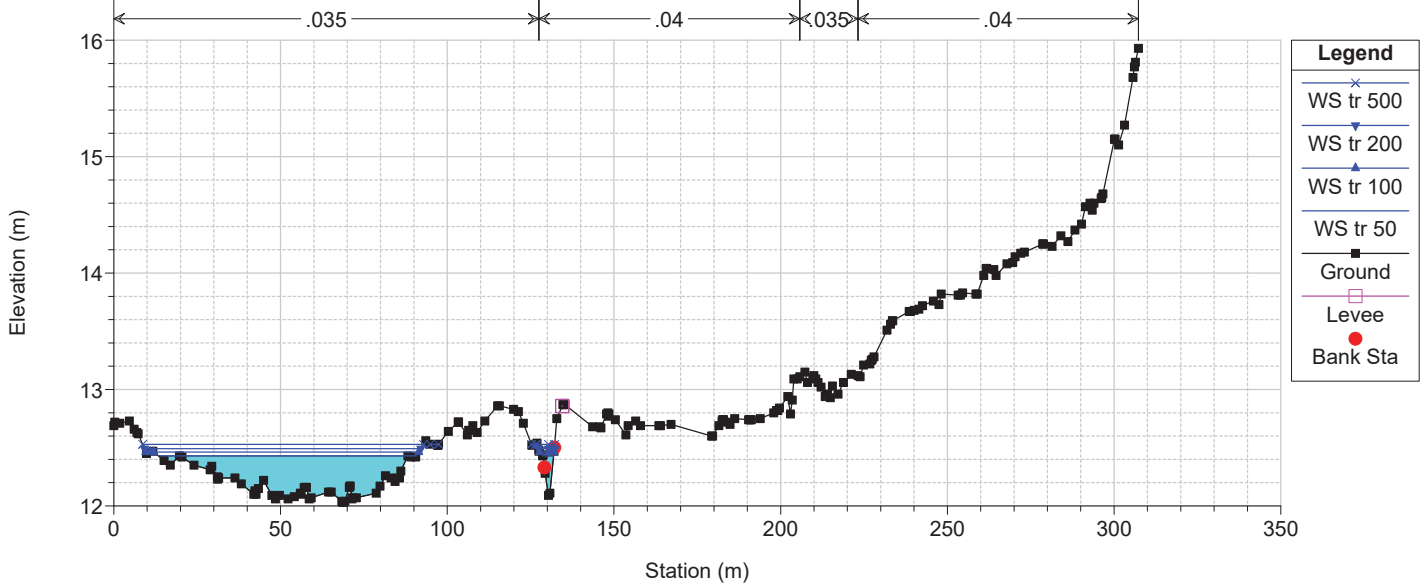
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lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

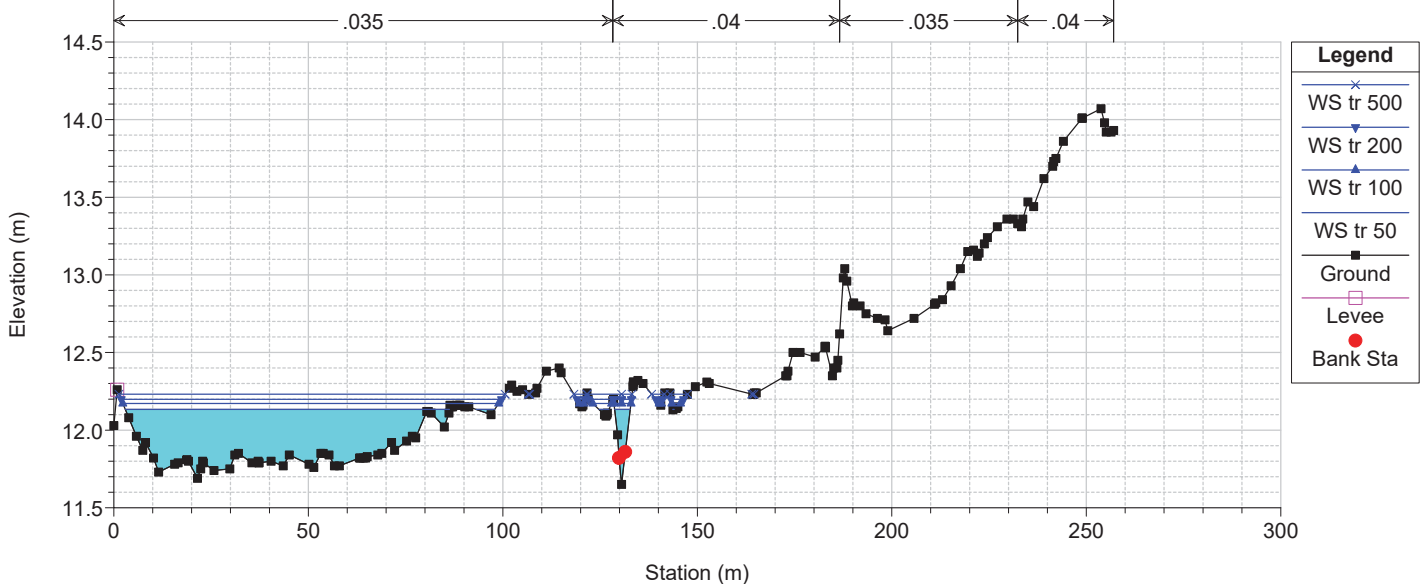
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lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

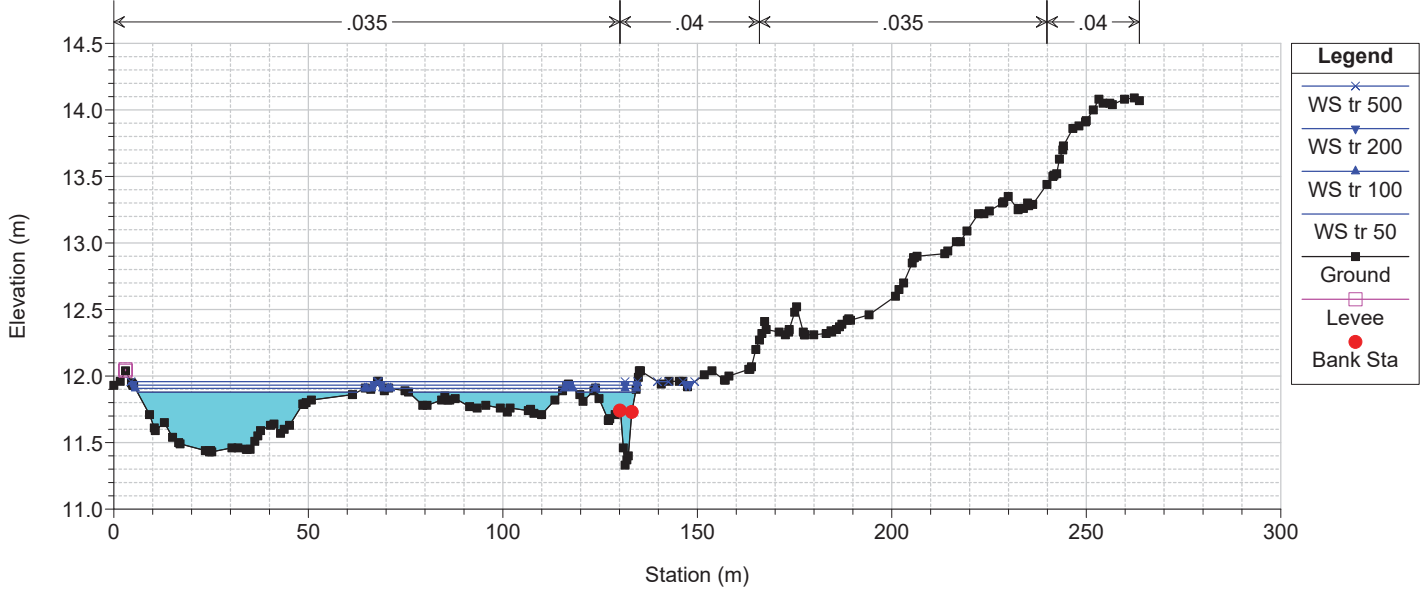
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lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

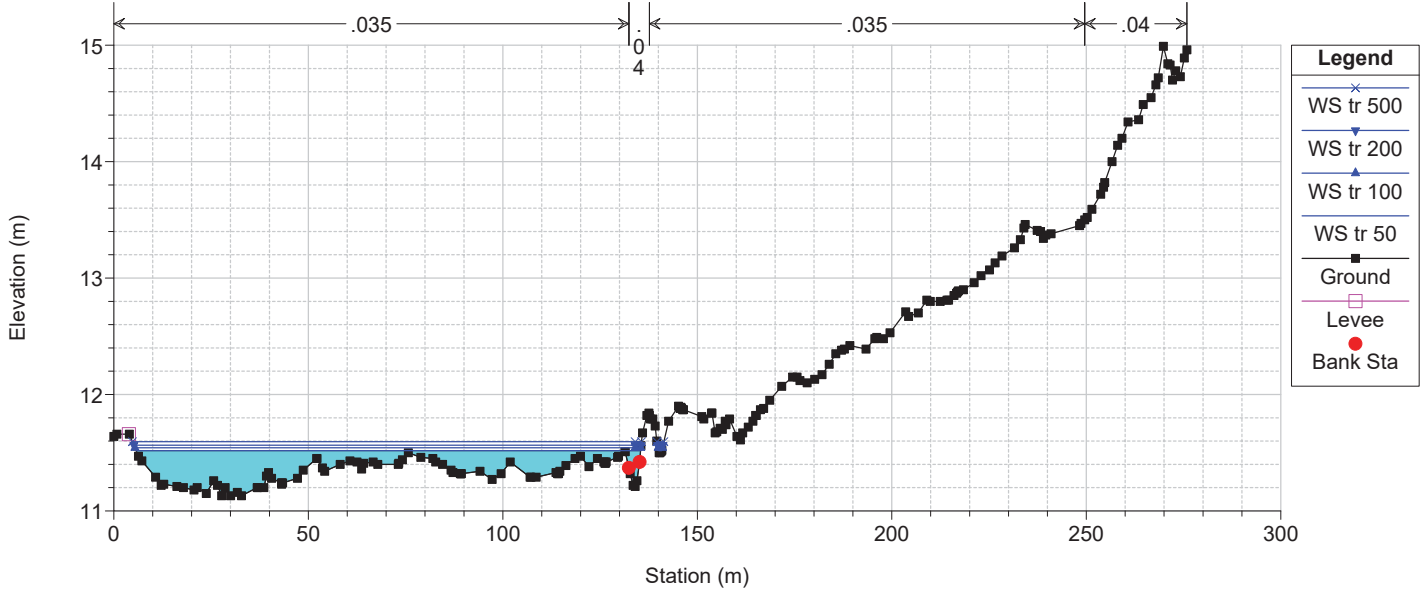
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lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

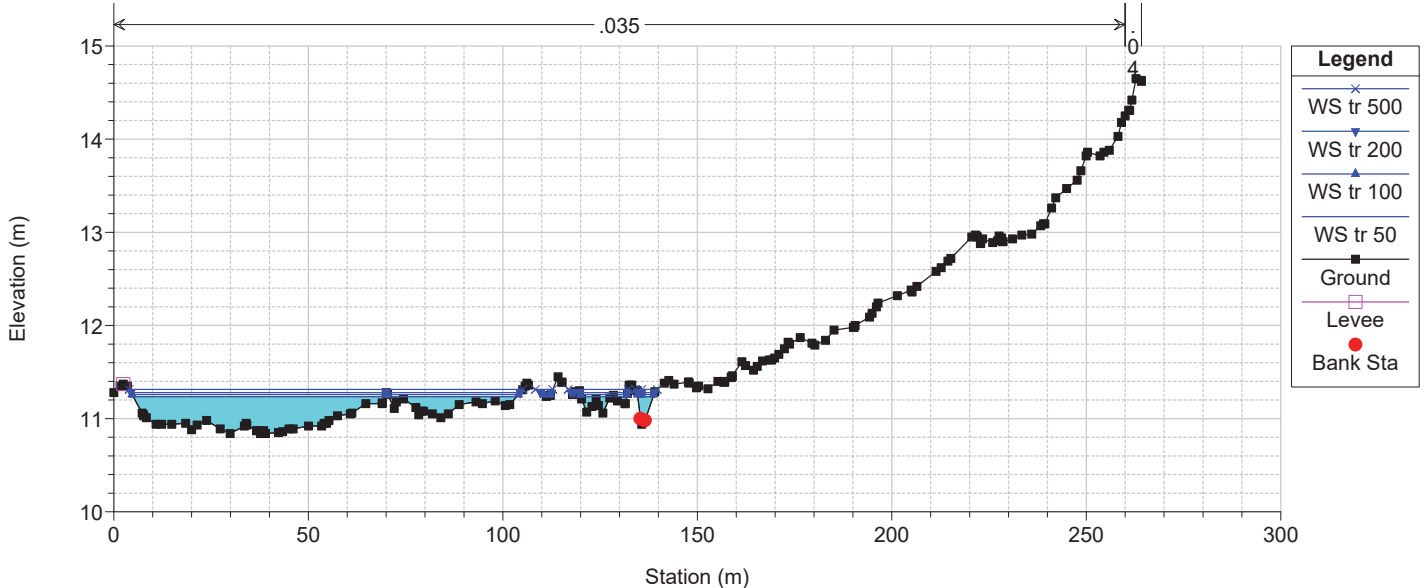
River = Lazzaretto Reach = asta RS = 1280 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

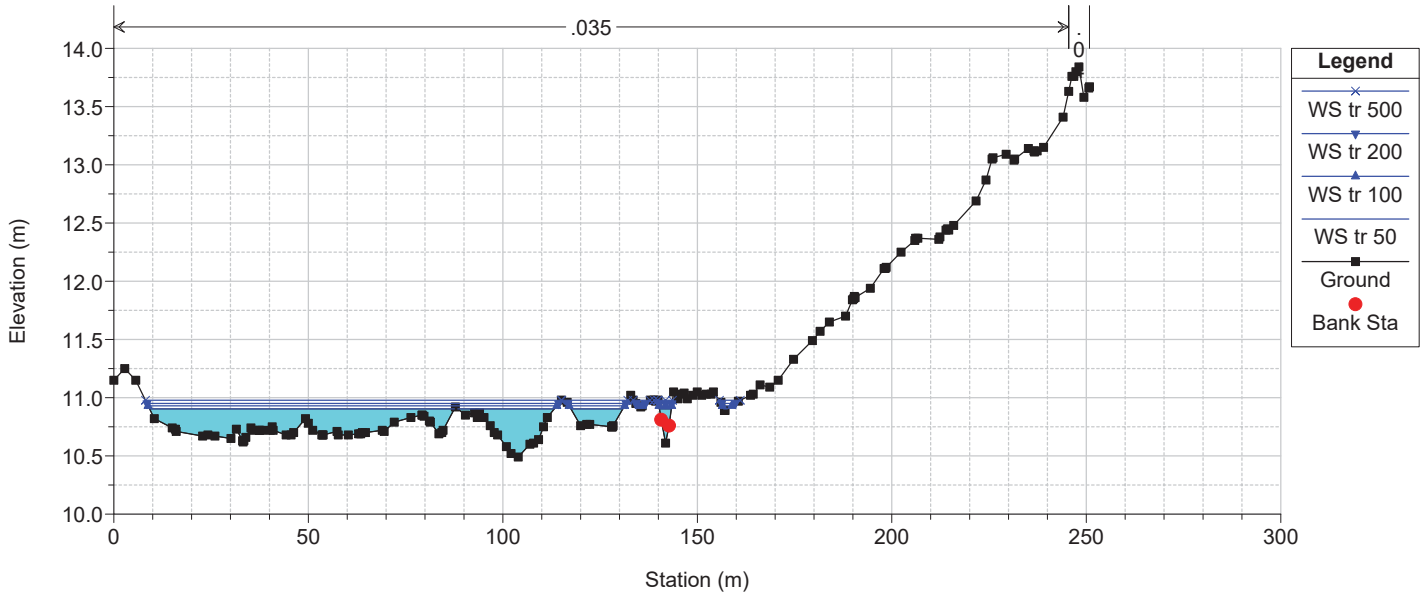
River = Lazzaretto Reach = asta RS = 1260 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

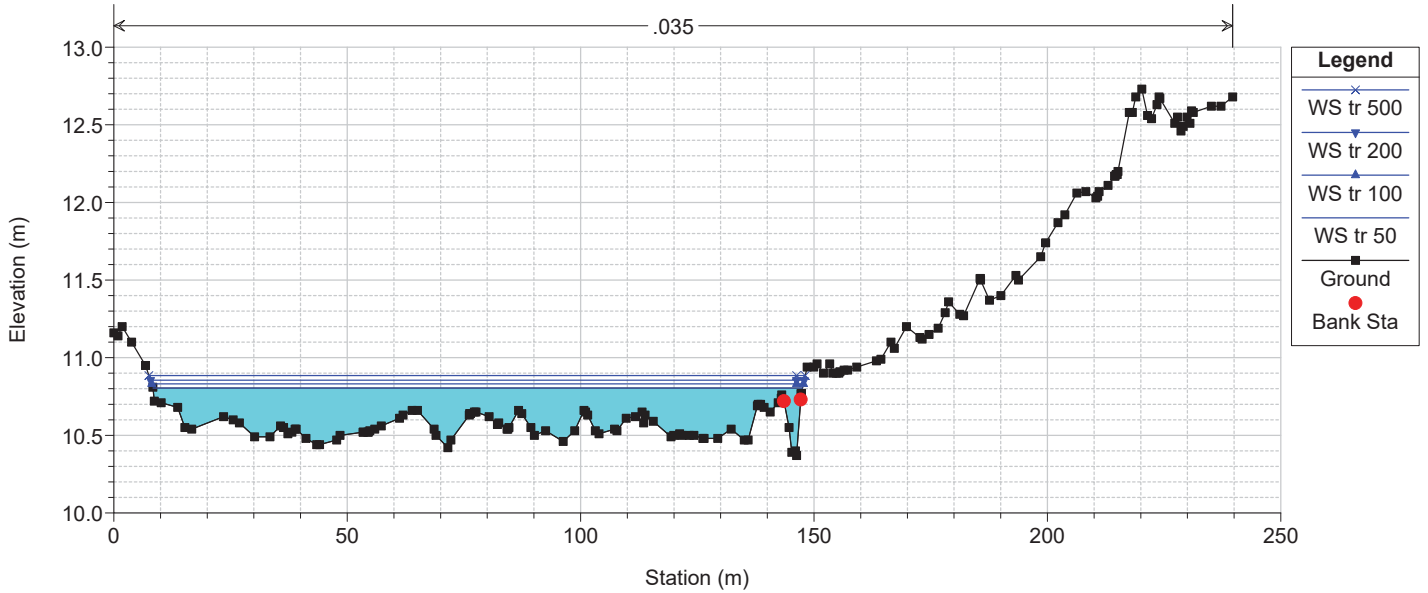
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lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

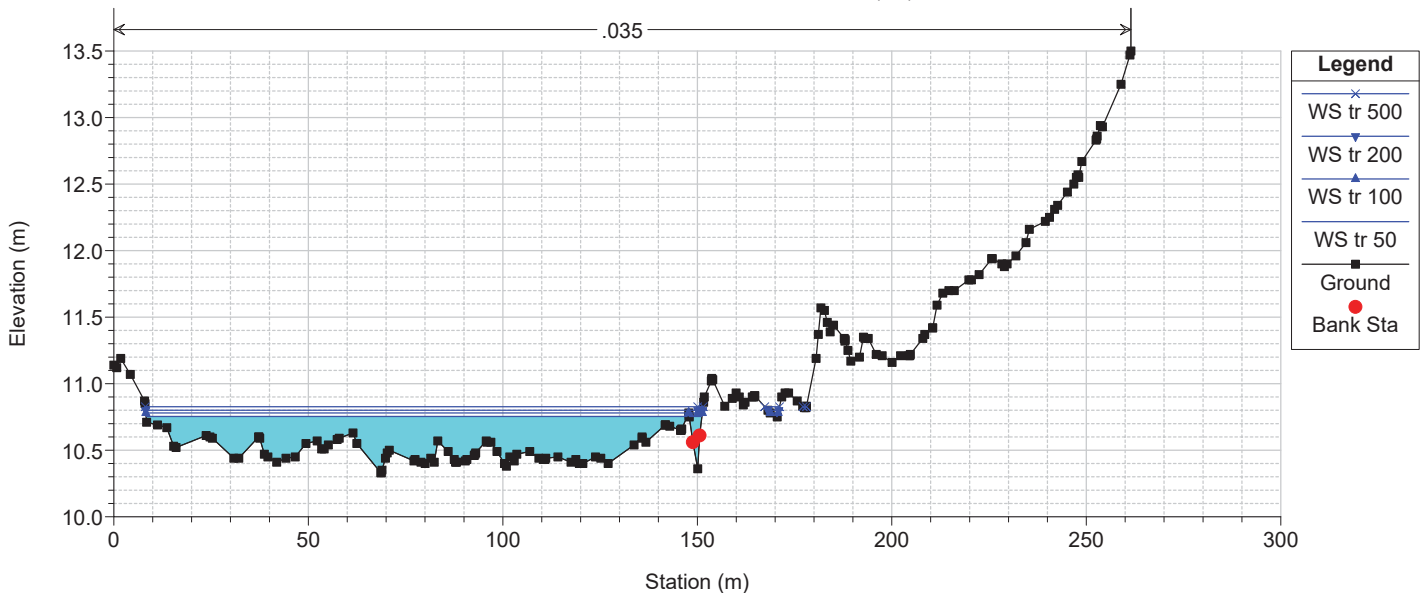
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lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

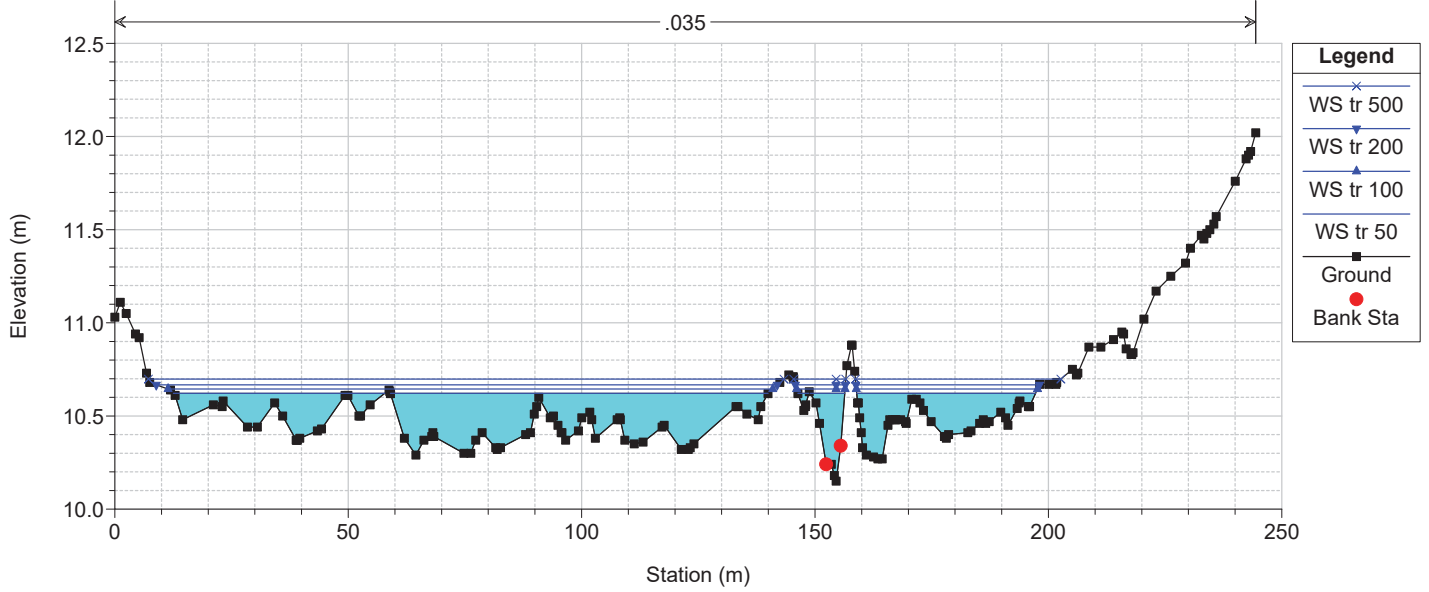
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lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

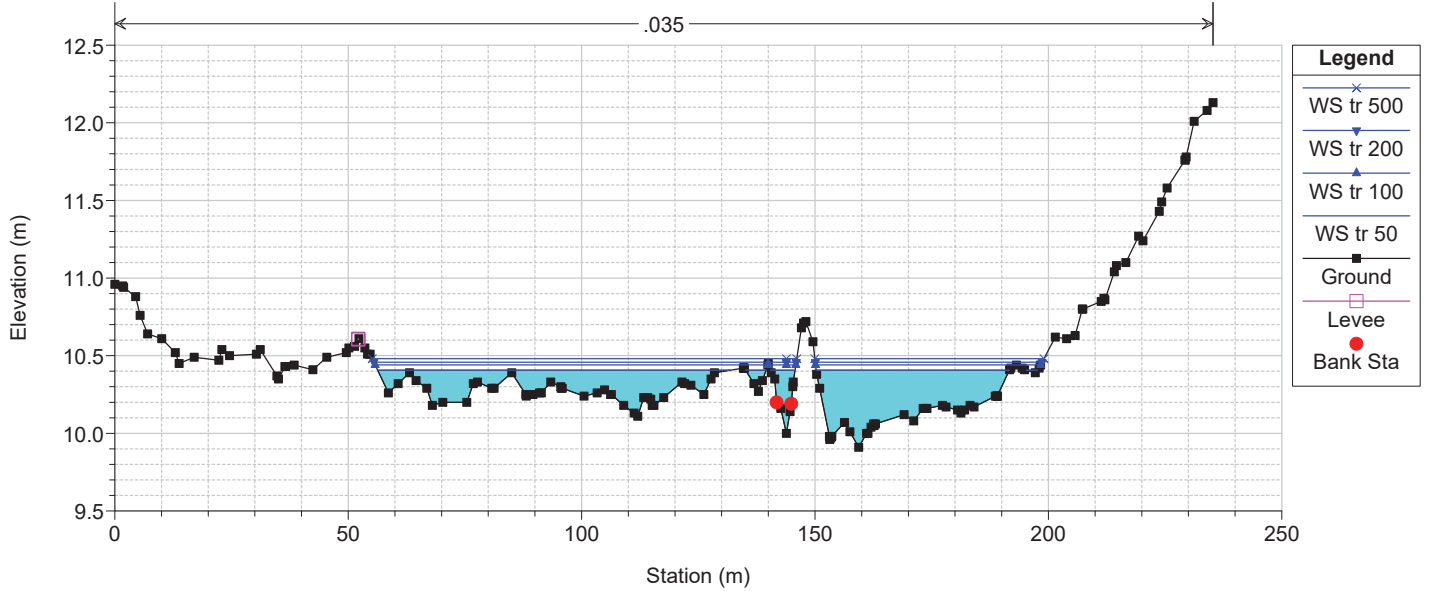
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lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

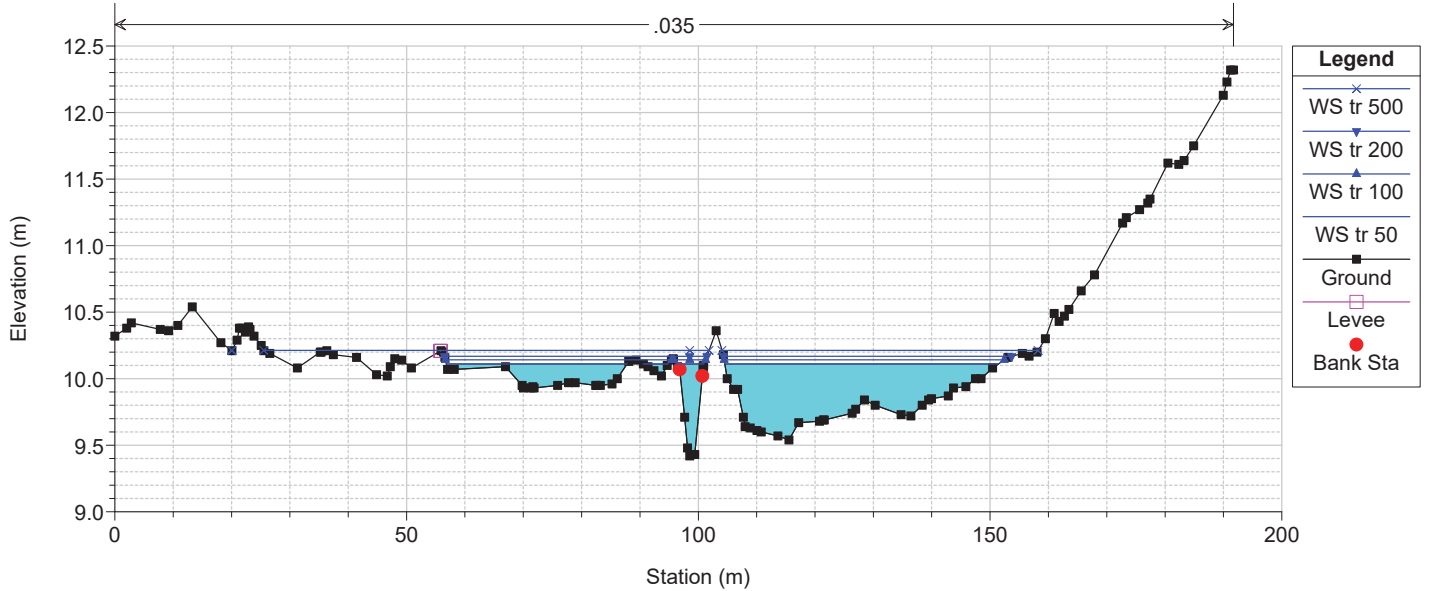
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lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

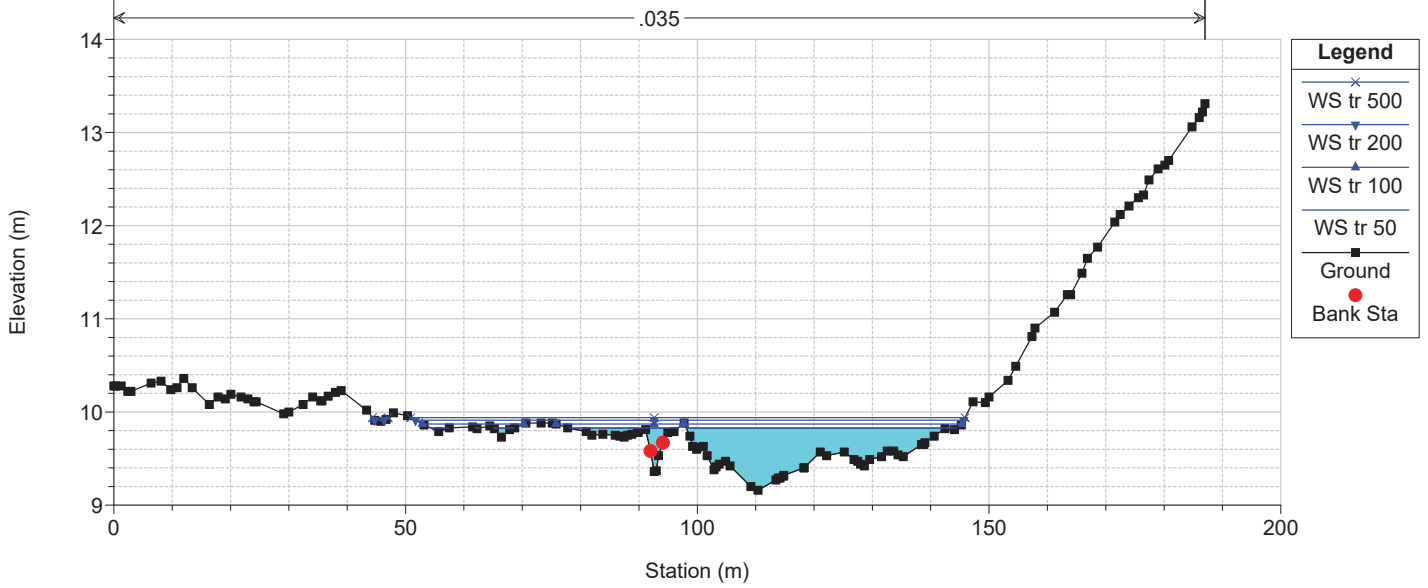
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lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

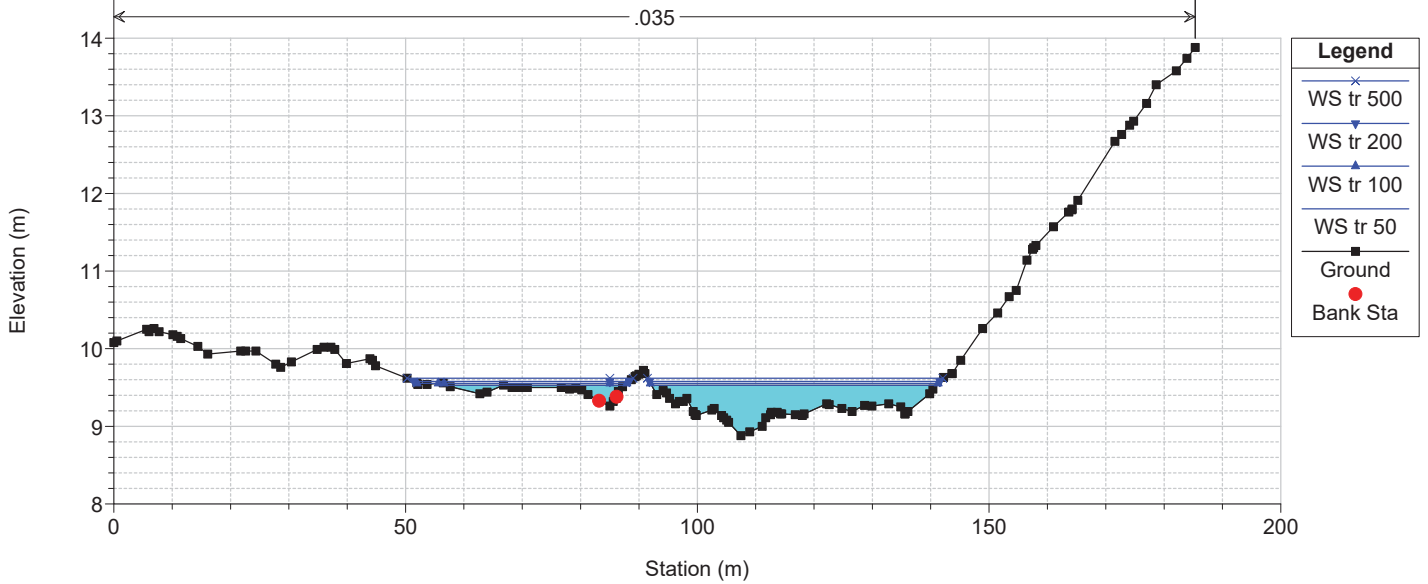
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lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

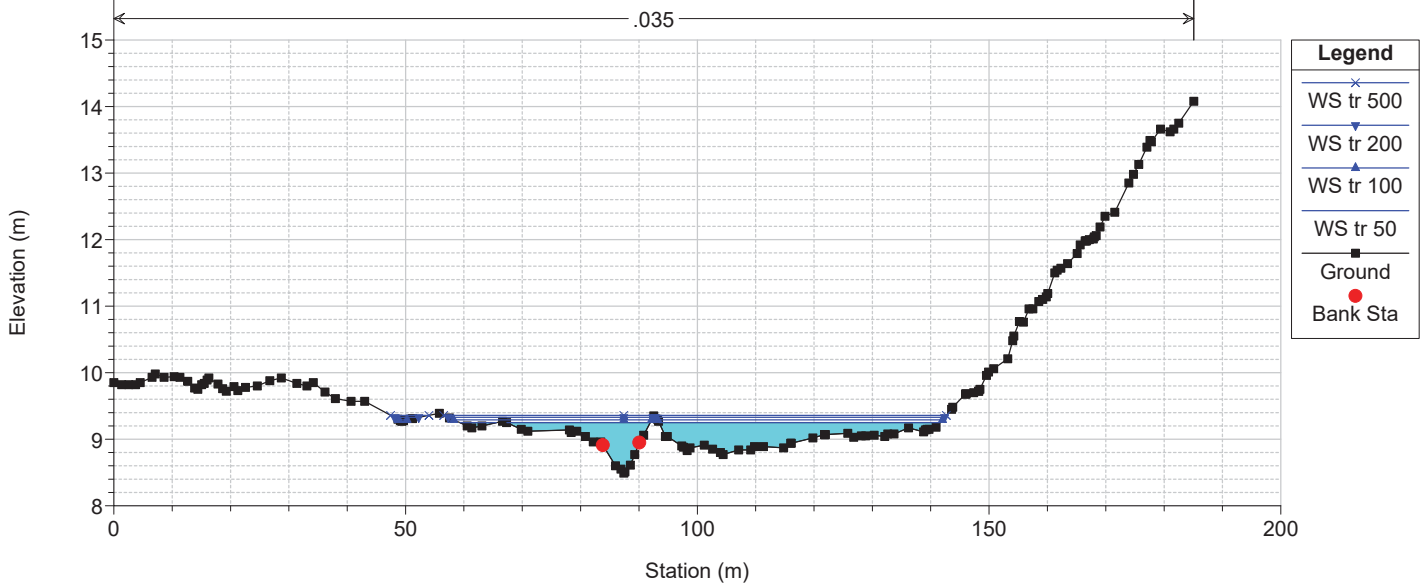
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lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

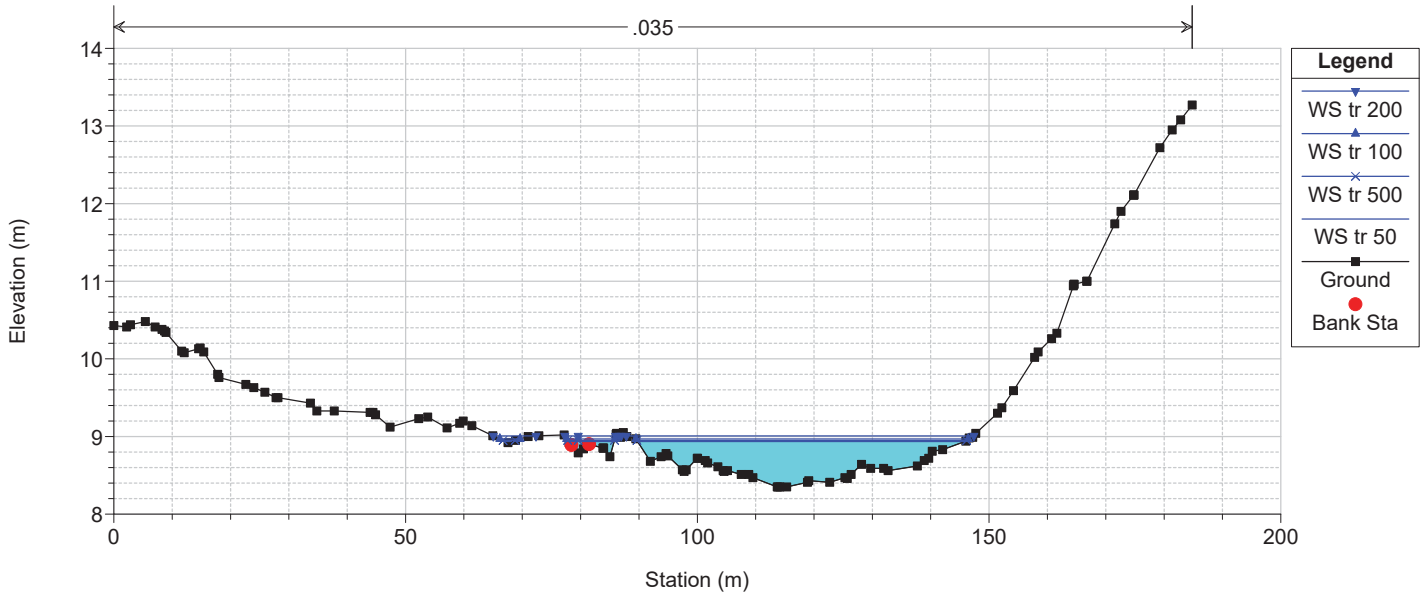
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lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

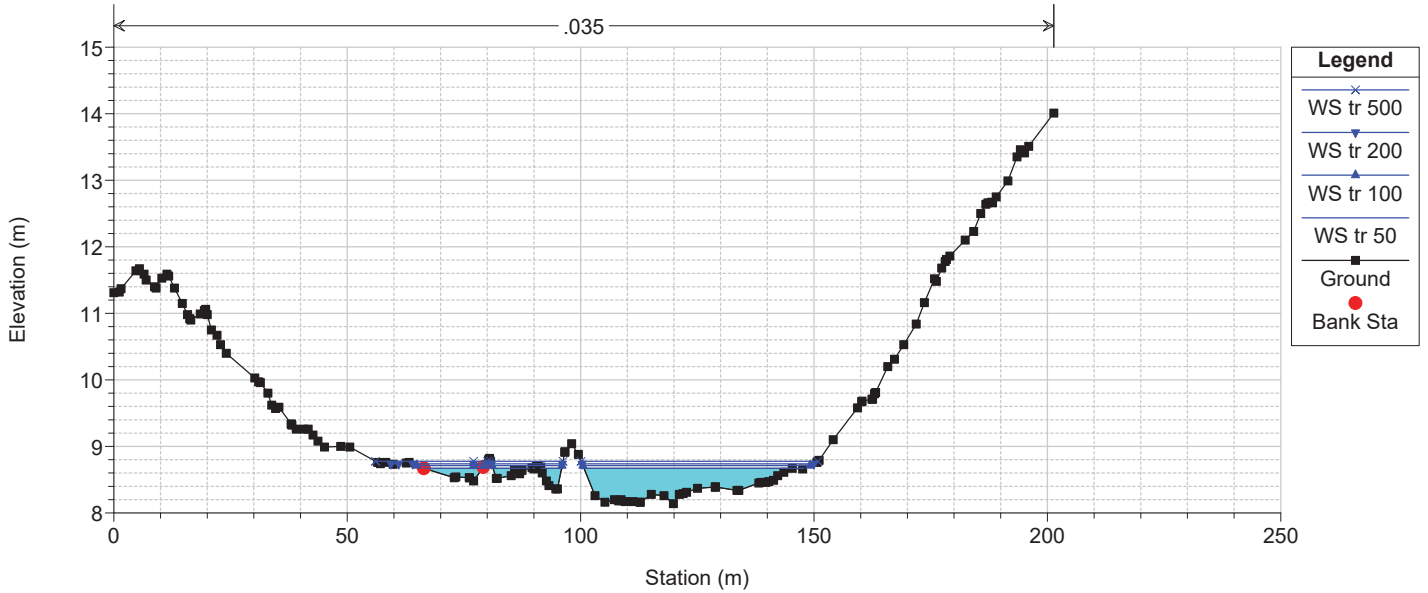
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lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

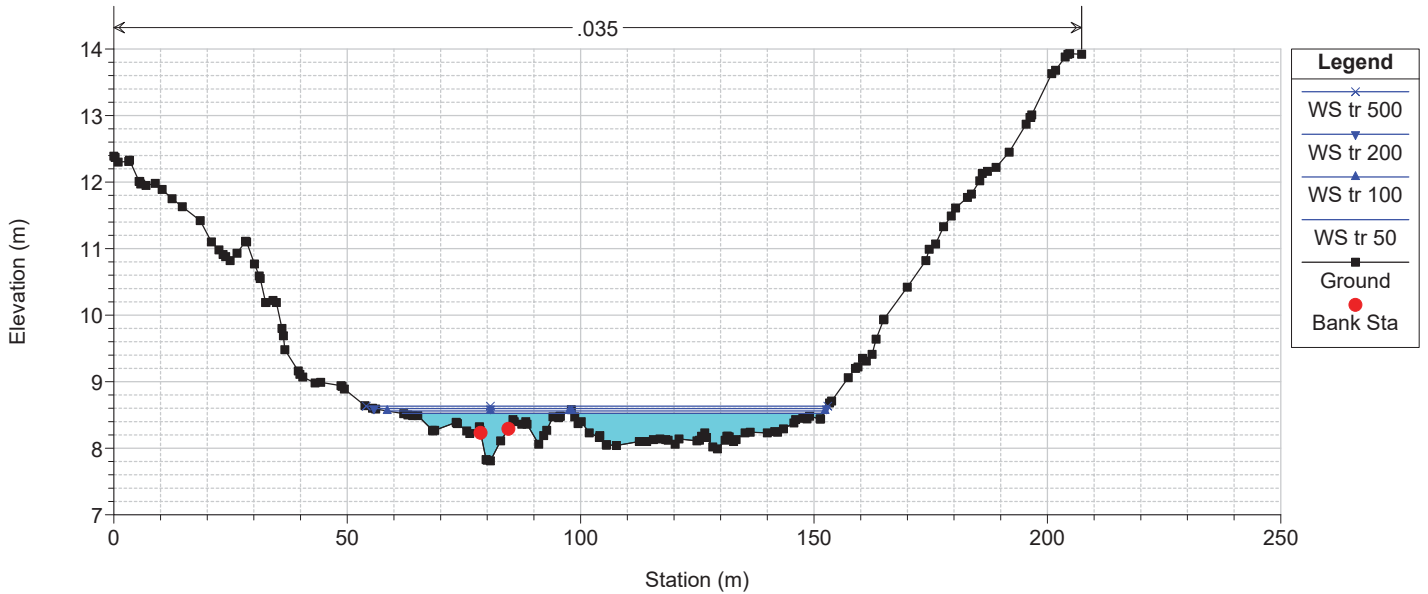
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lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

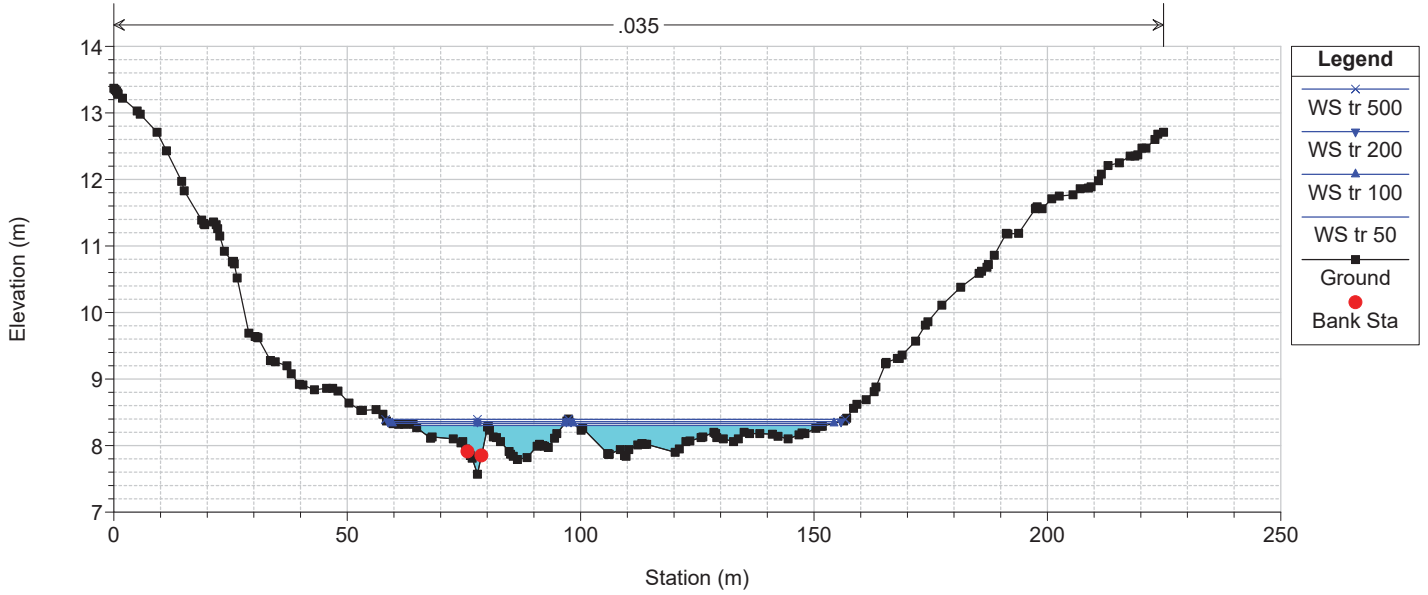
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lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

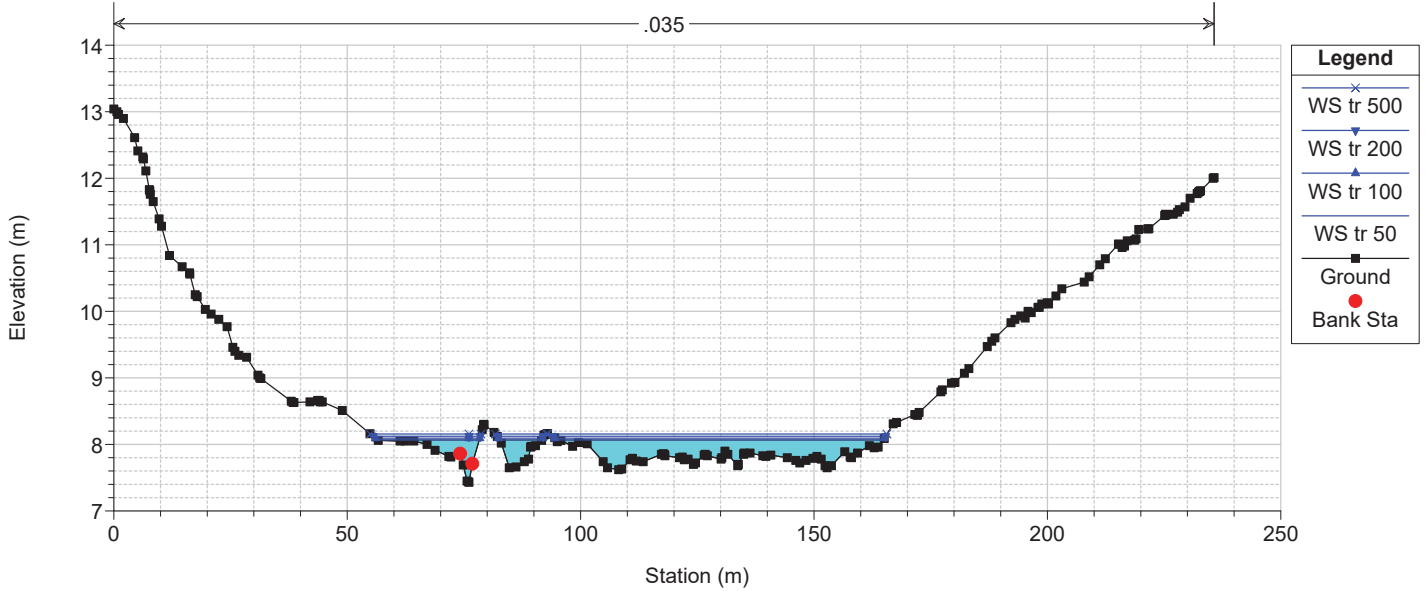
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lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

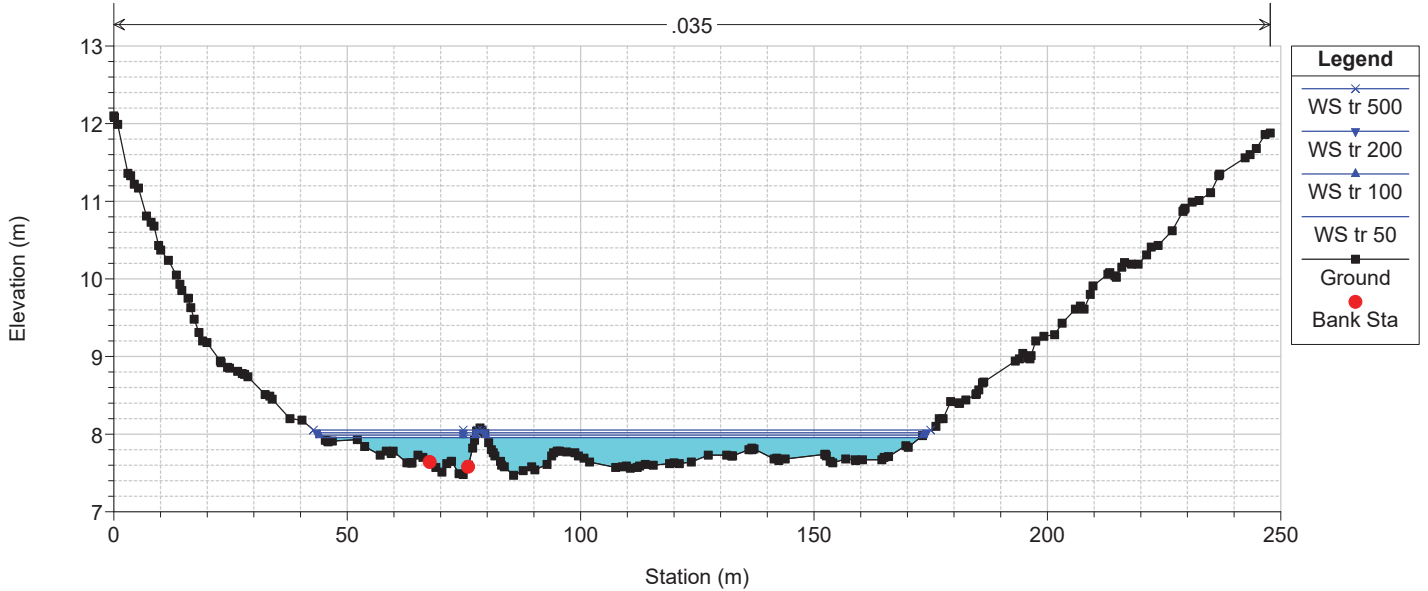
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lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

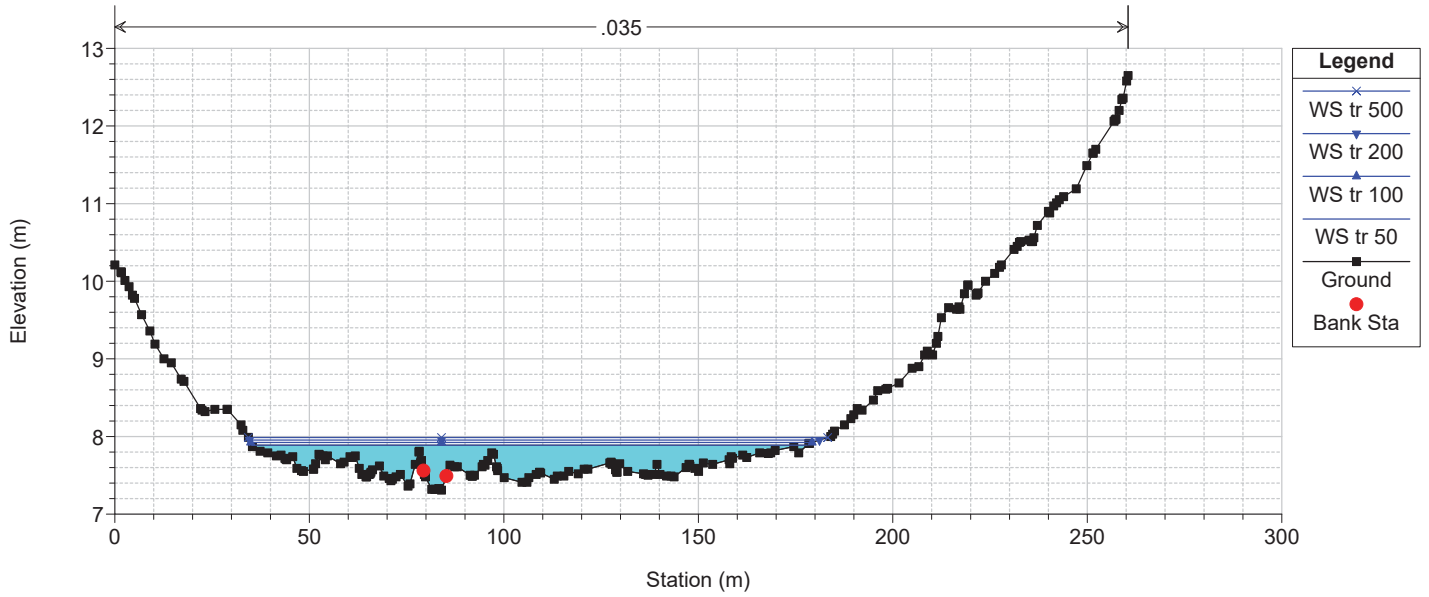
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lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

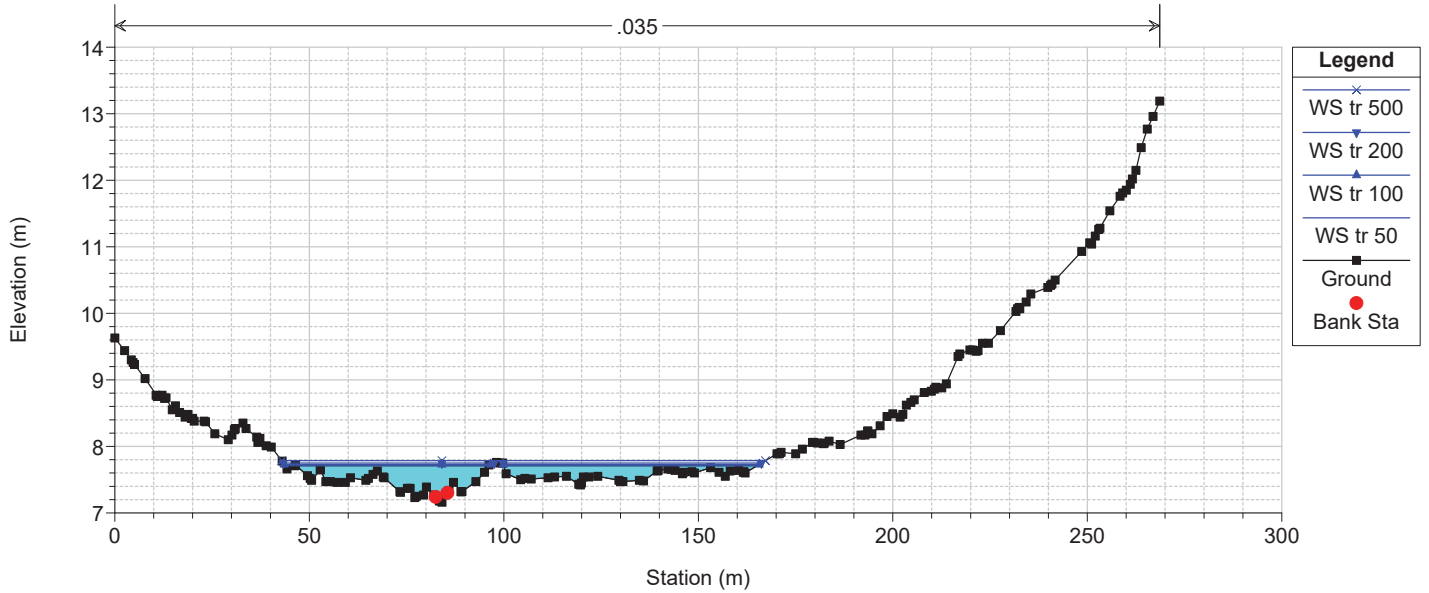
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lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

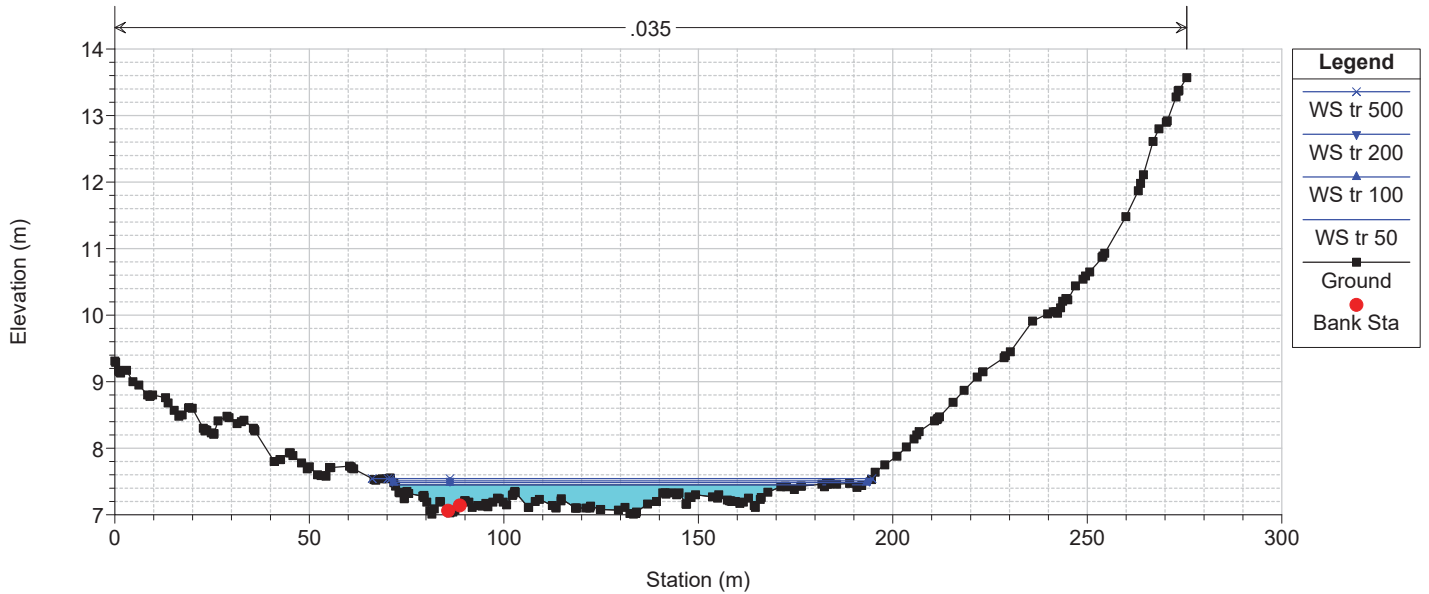
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lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

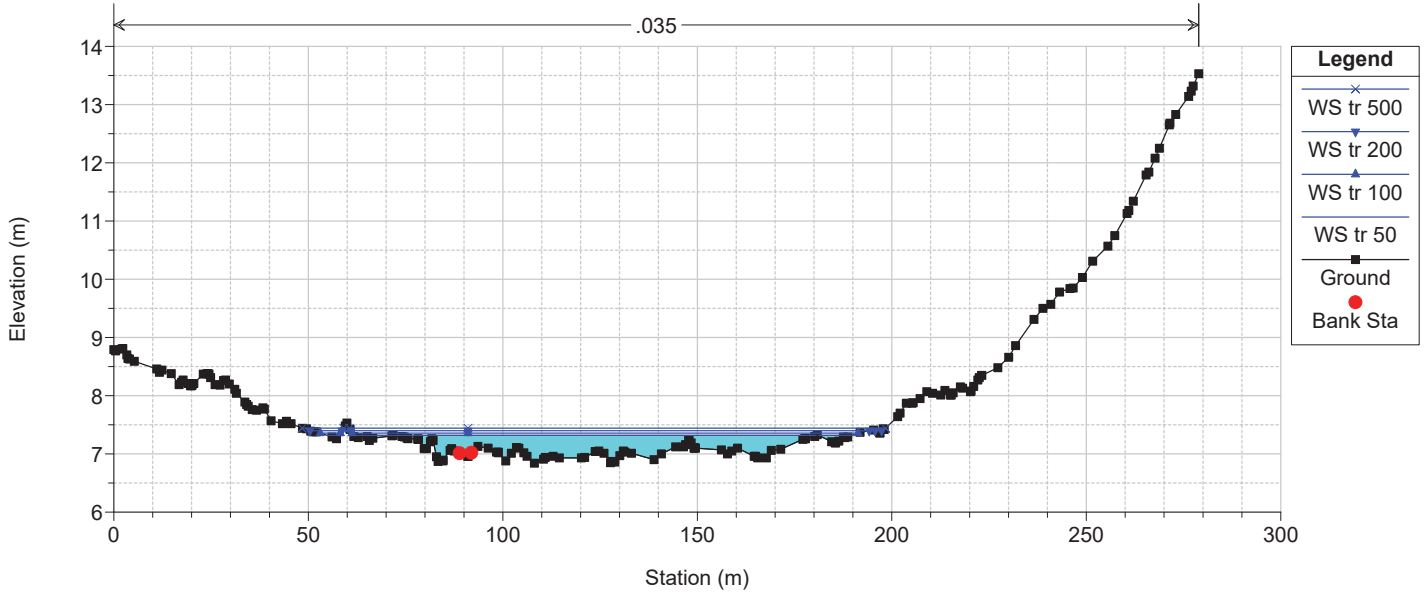
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lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

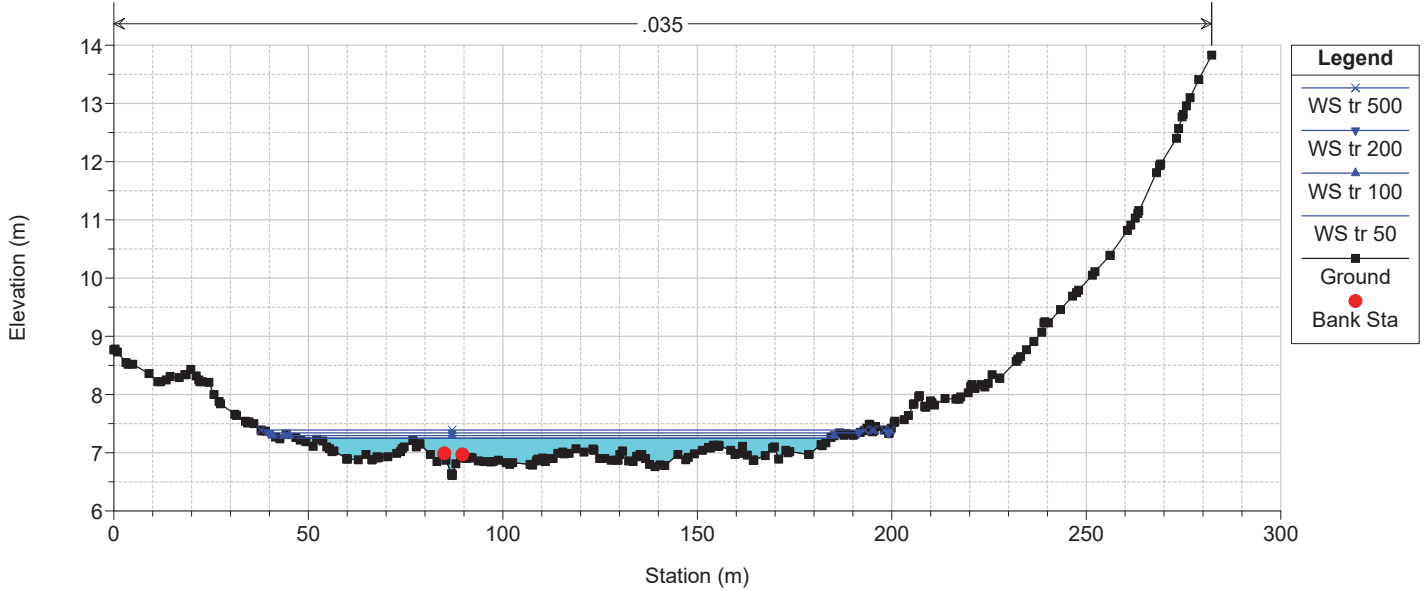
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lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

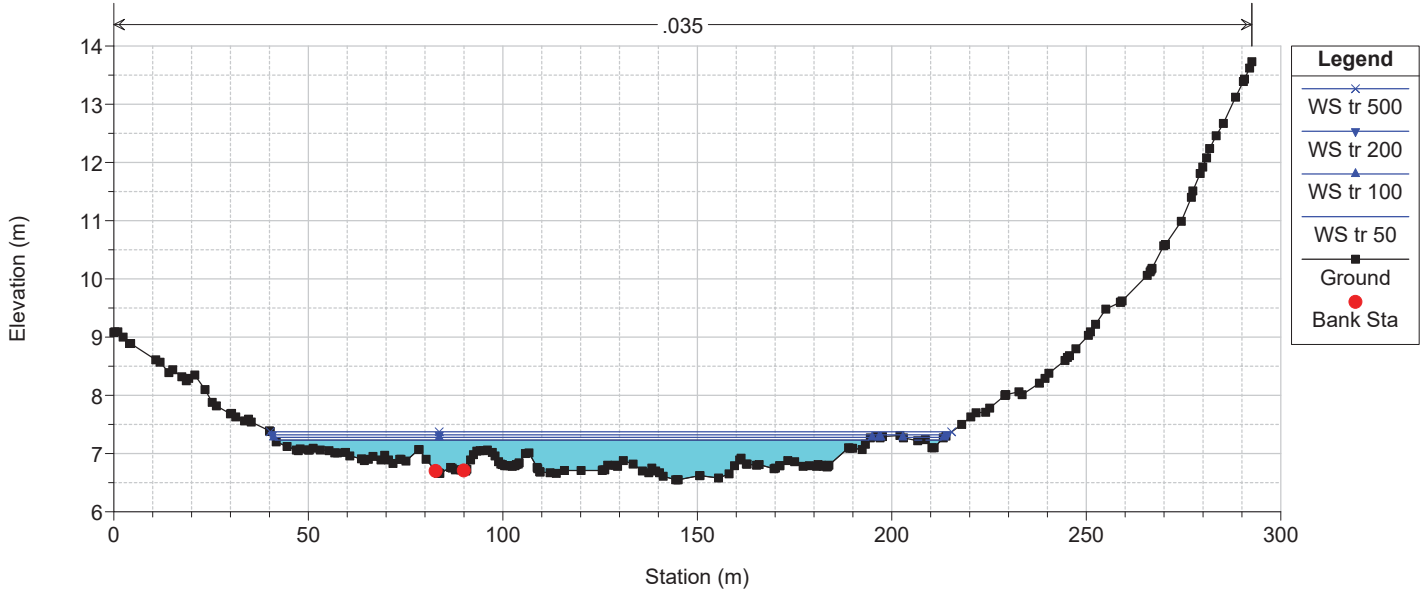
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lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

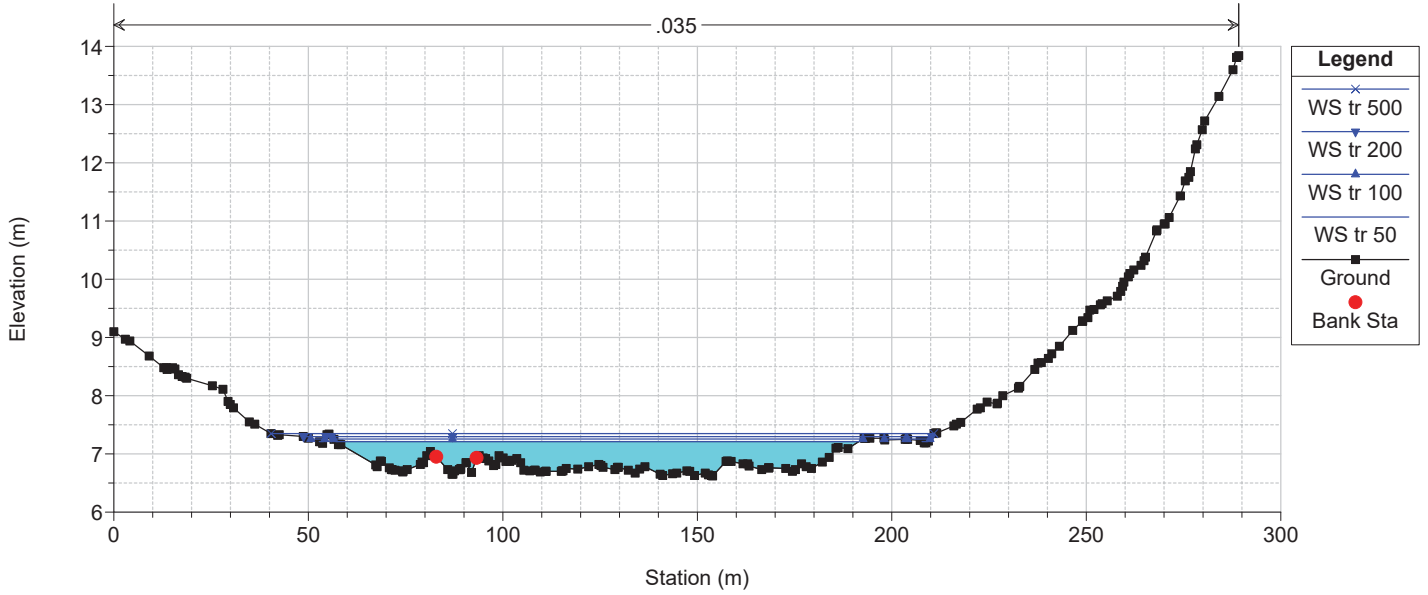
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lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

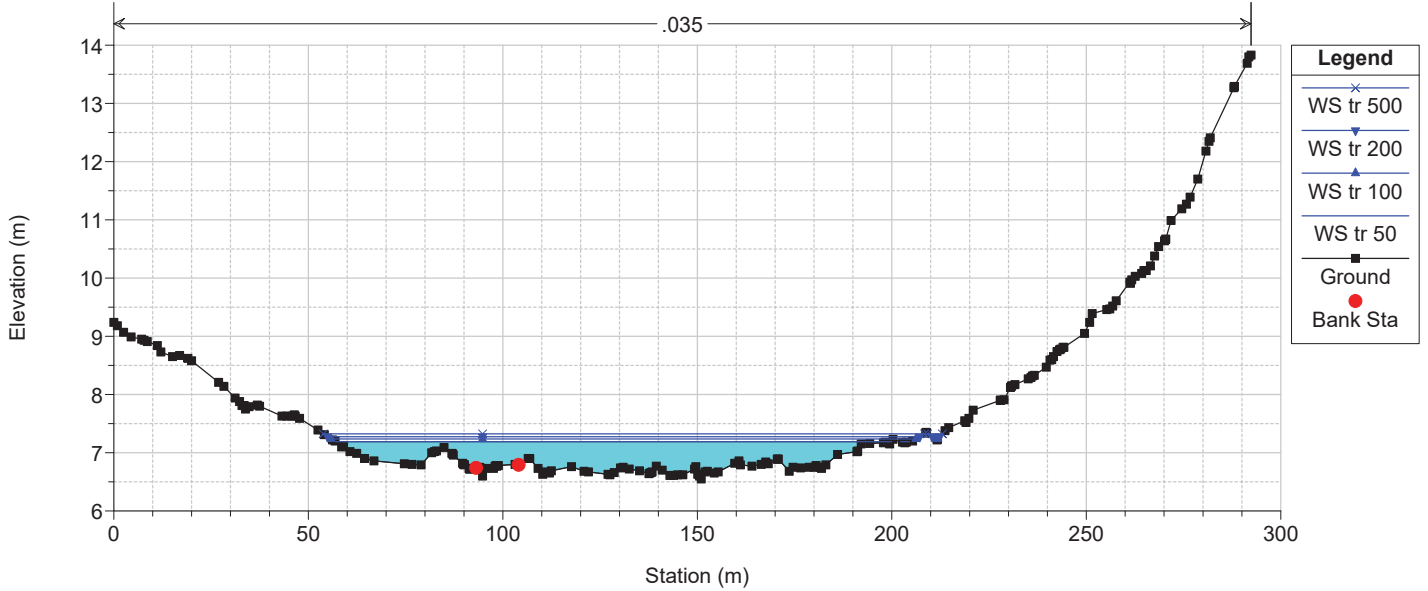
River = Lazzaretto Reach = asta RS = 839.9999 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

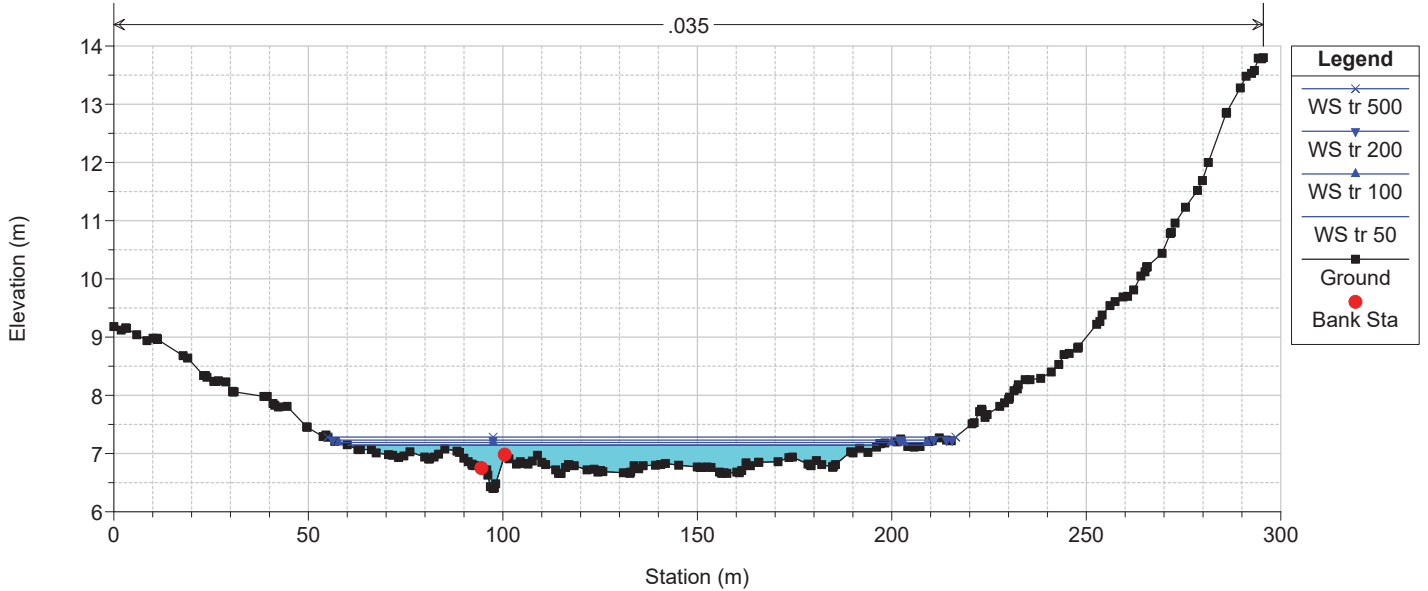
River = Lazzaretto Reach = asta RS = 820.0001 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

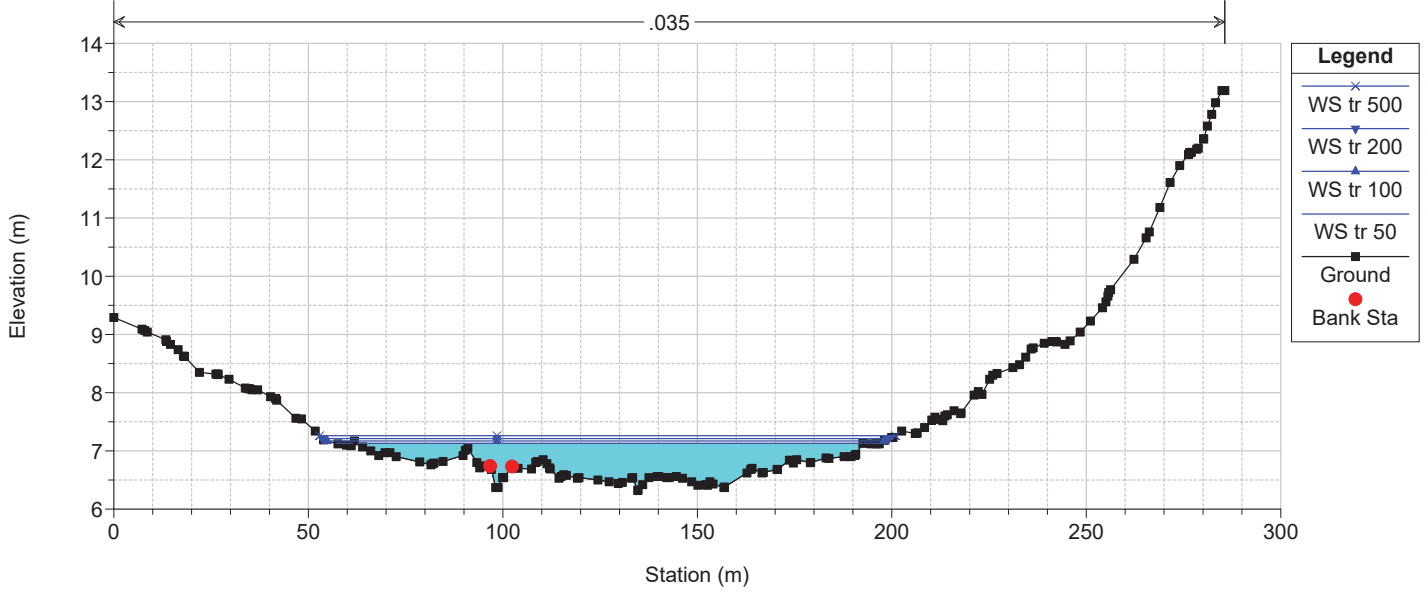
River = Lazzaretto Reach = asta RS = 800 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

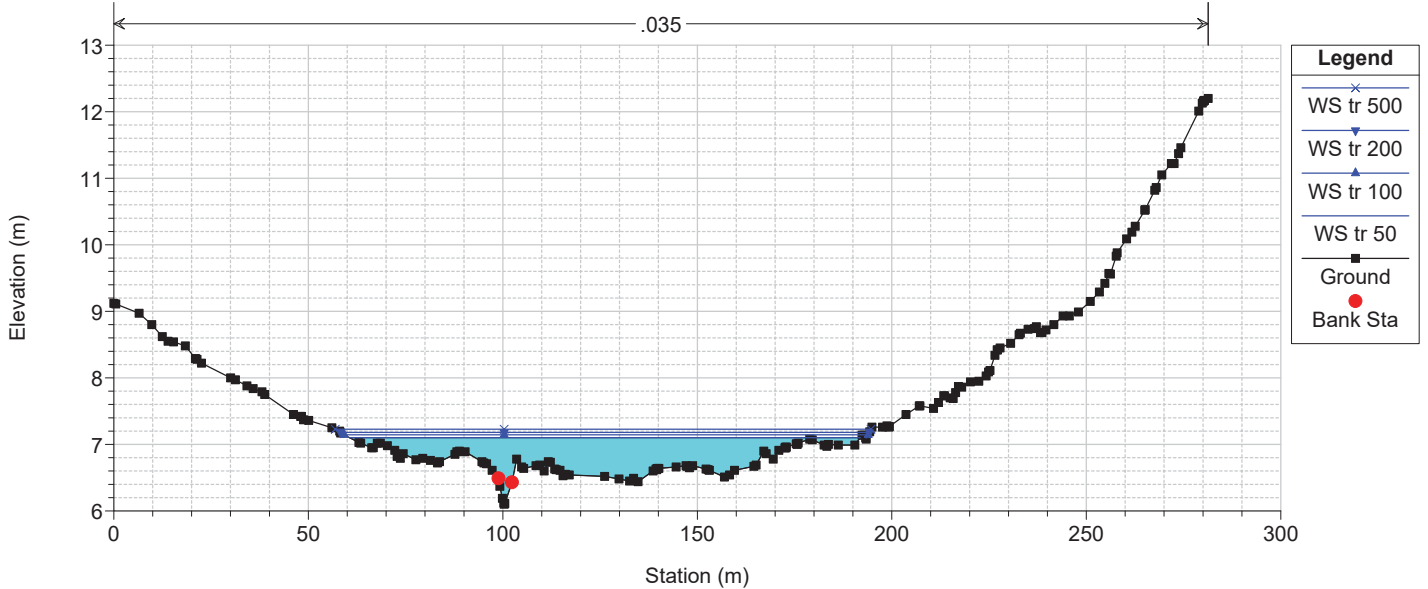
River = Lazzaretto Reach = asta RS = 780 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

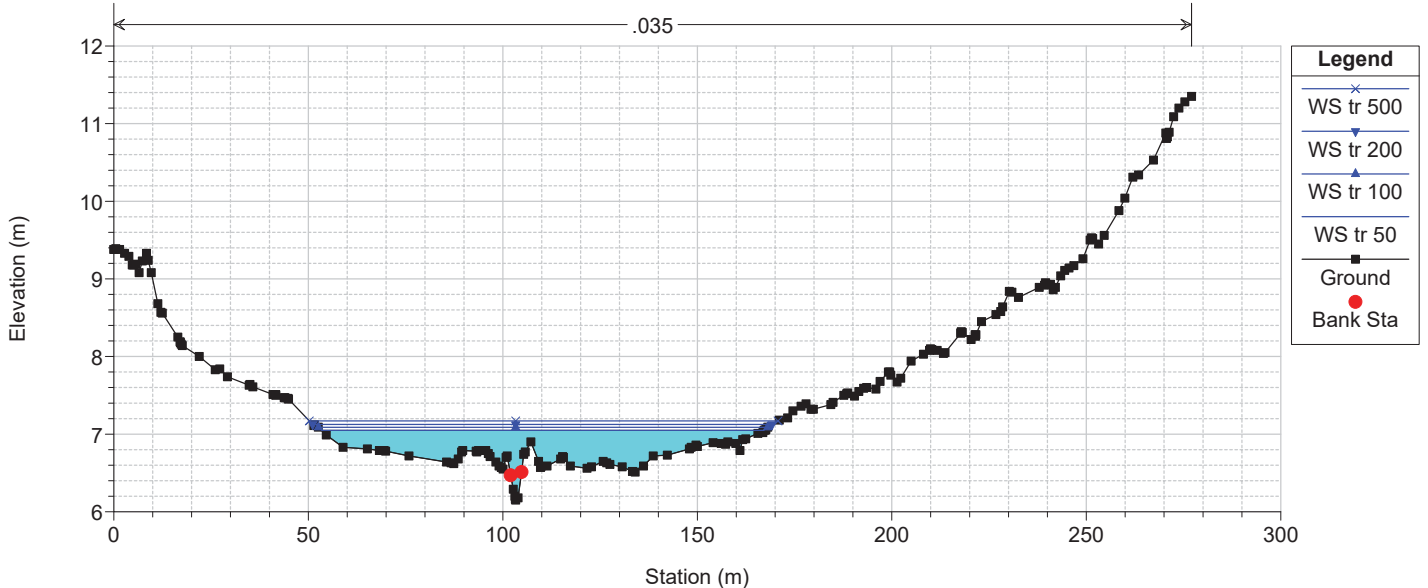
River = Lazzaretto Reach = asta RS = 759.9999 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

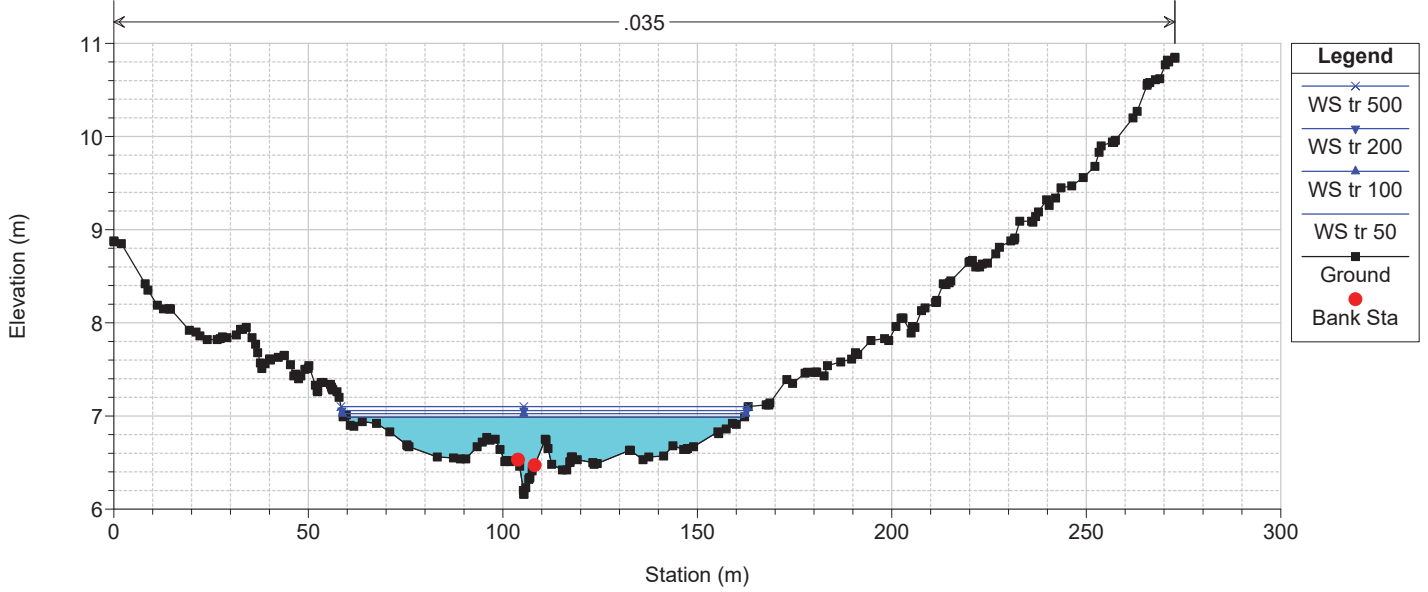
River = Lazzaretto Reach = asta RS = 740 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

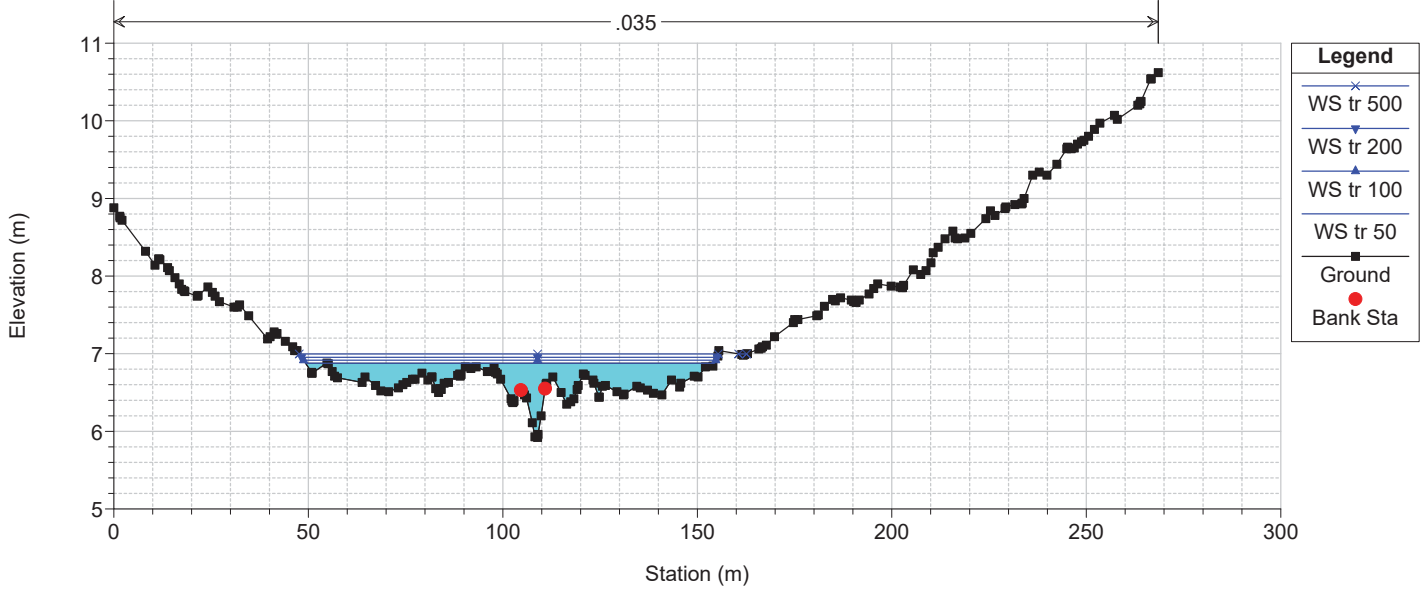
River = Lazzaretto Reach = asta RS = 720.0001 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

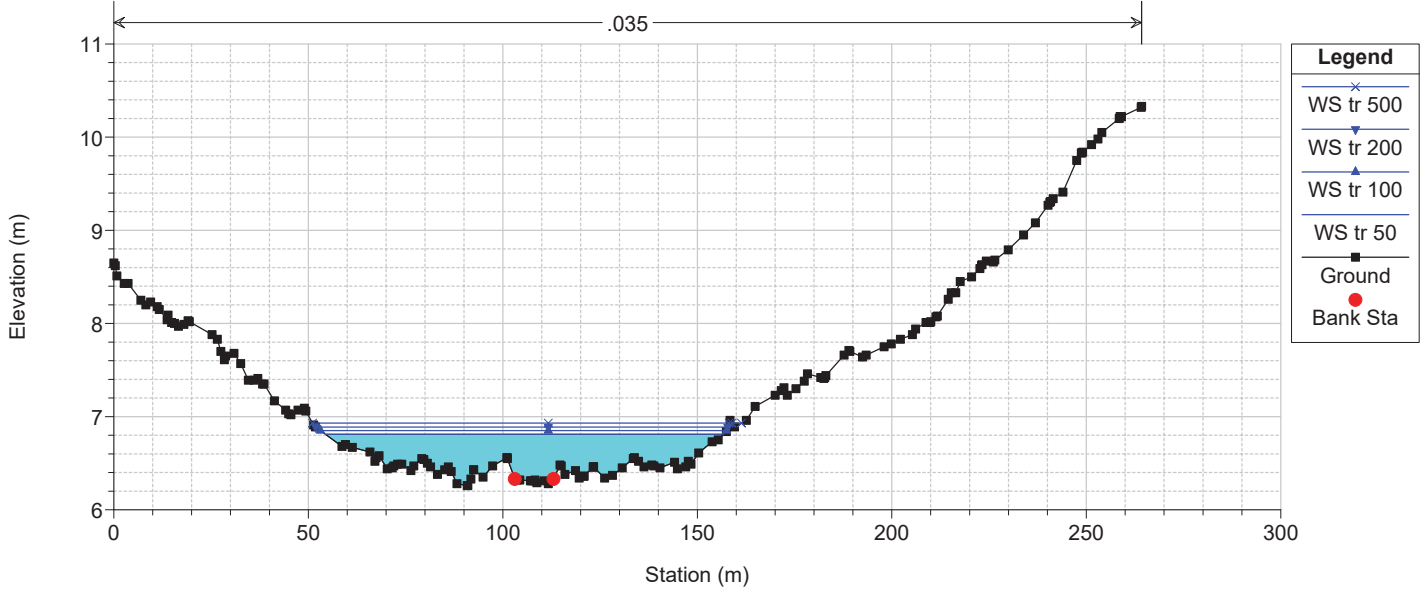
River = Lazzaretto Reach = asta RS = 700.0001 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

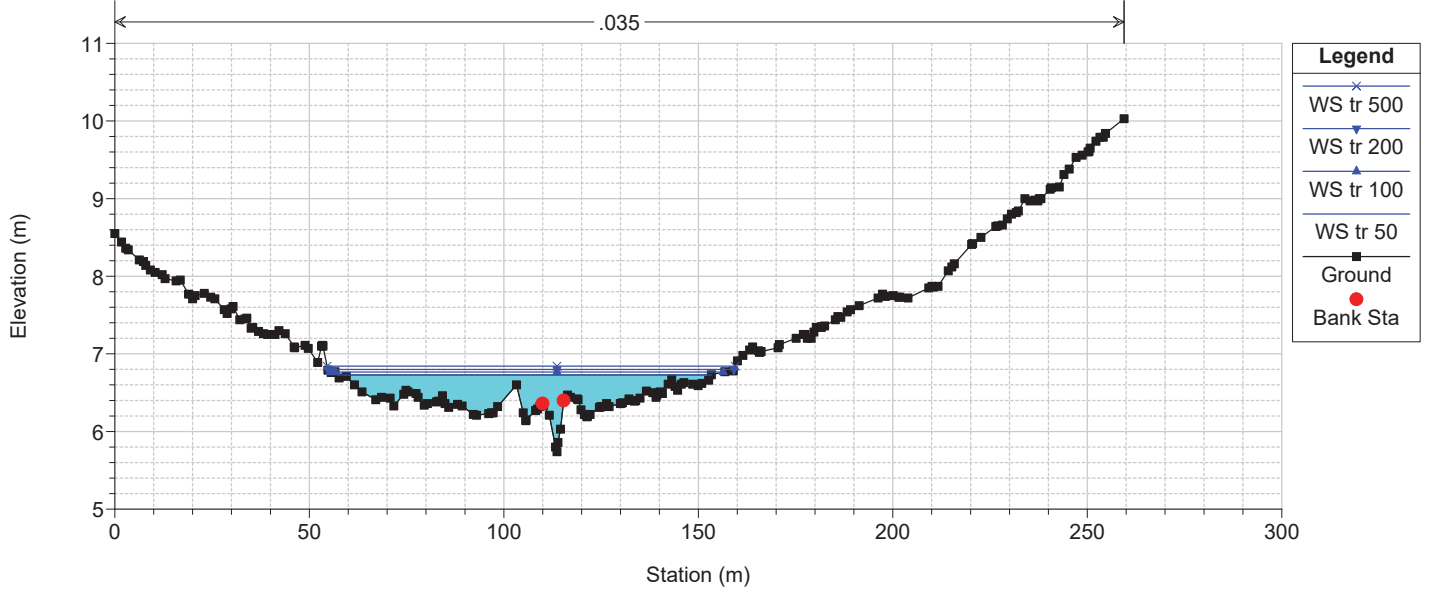
River = Lazzaretto Reach = asta RS = 680.0001 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

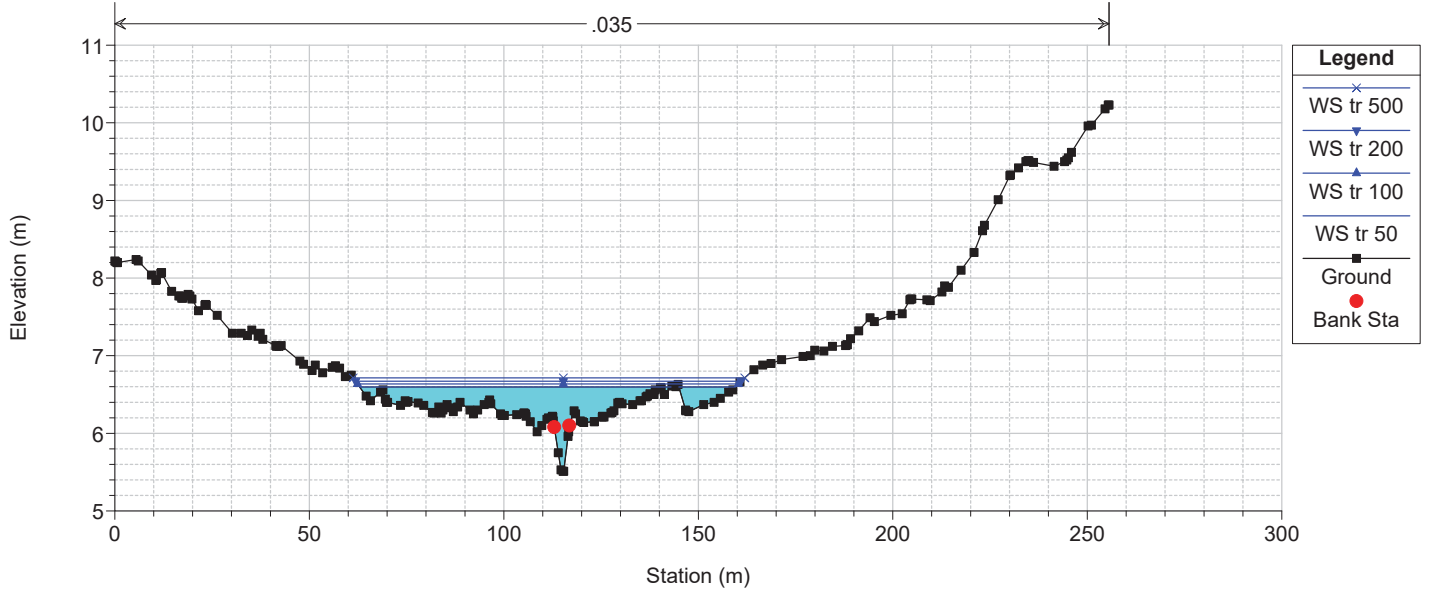
River = Lazzaretto Reach = asta RS = 660 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

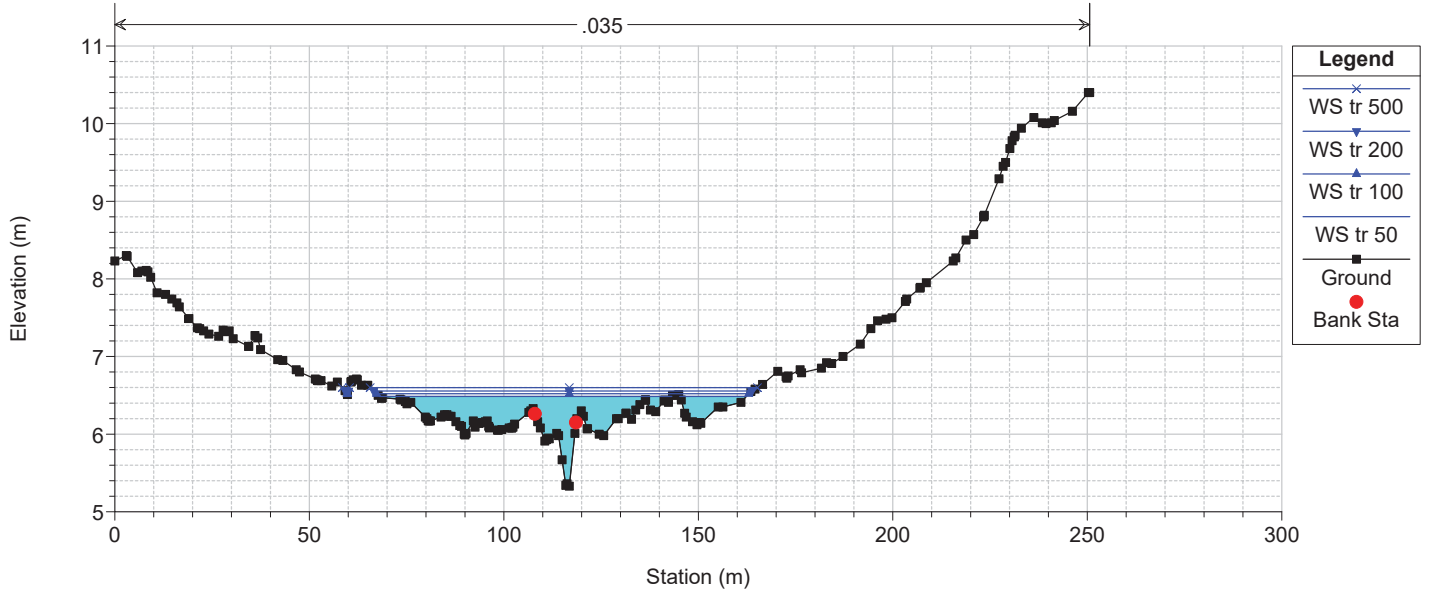
River = Lazzaretto Reach = asta RS = 640 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

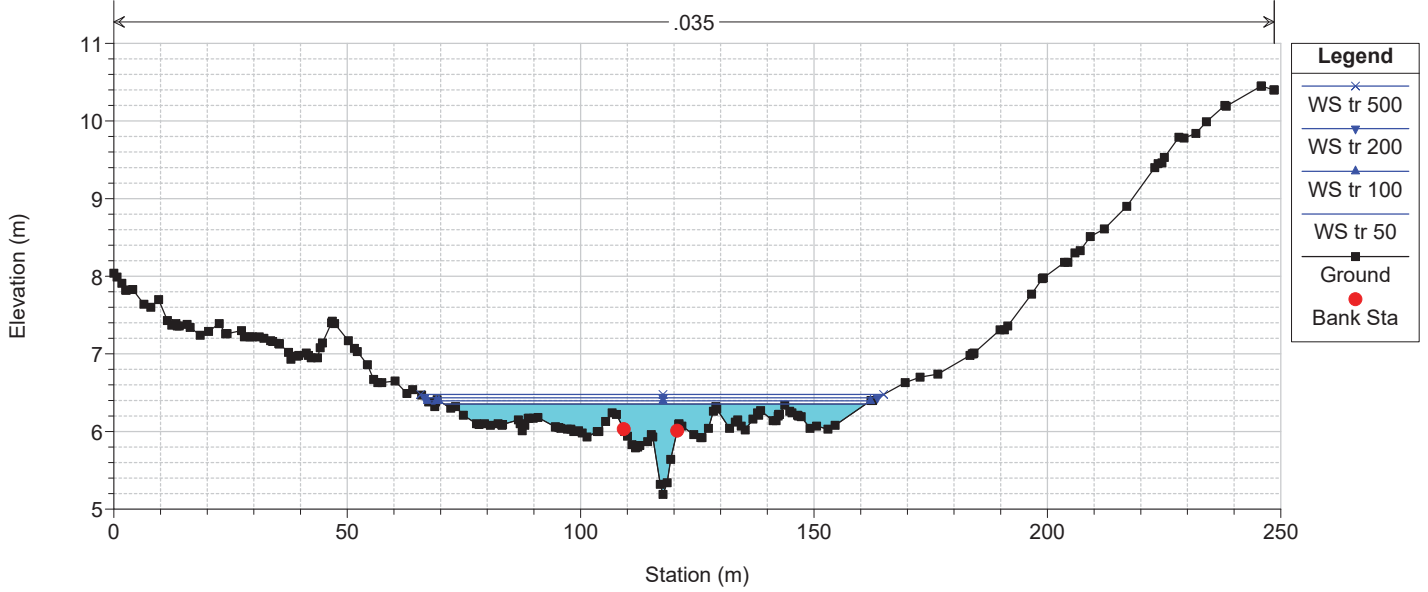
River = Lazzaretto Reach = asta RS = 620 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

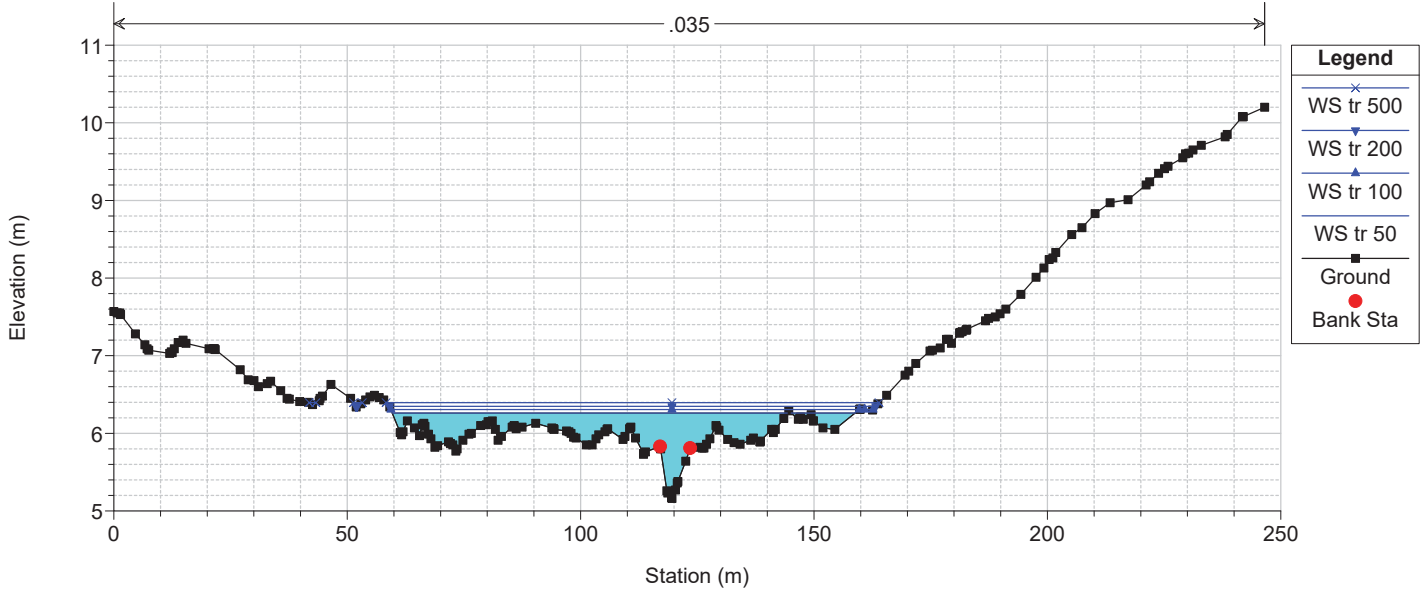
River = Lazzaretto Reach = asta RS = 600 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

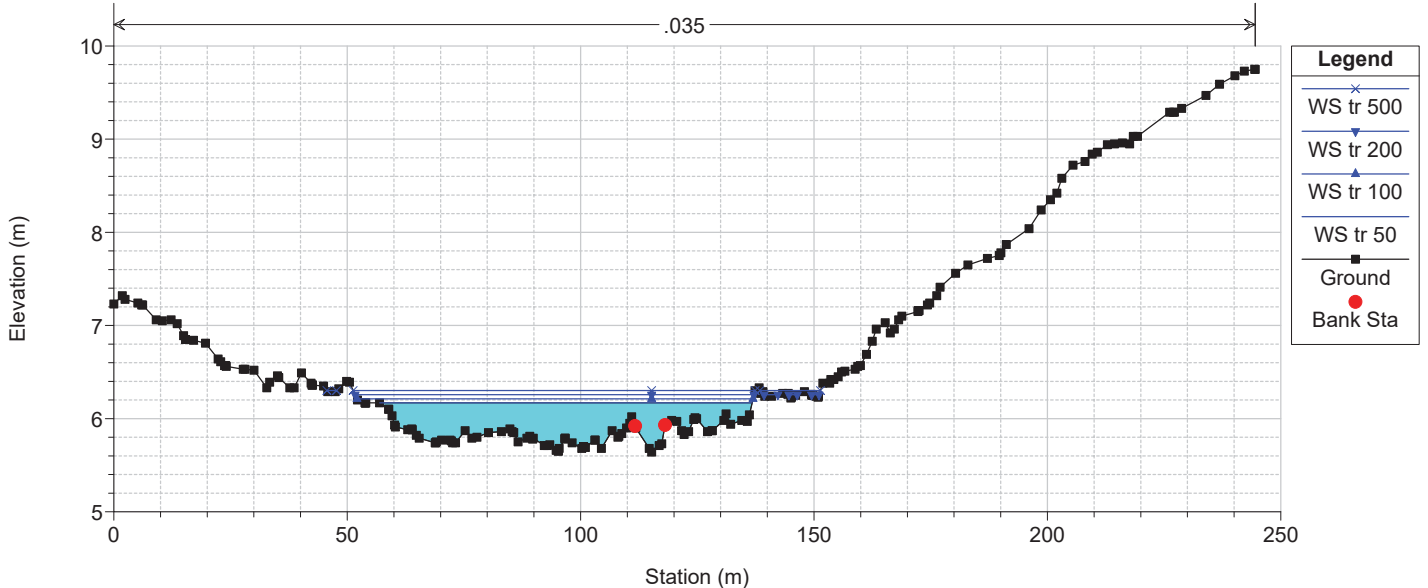
River = Lazzaretto Reach = asta RS = 580 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

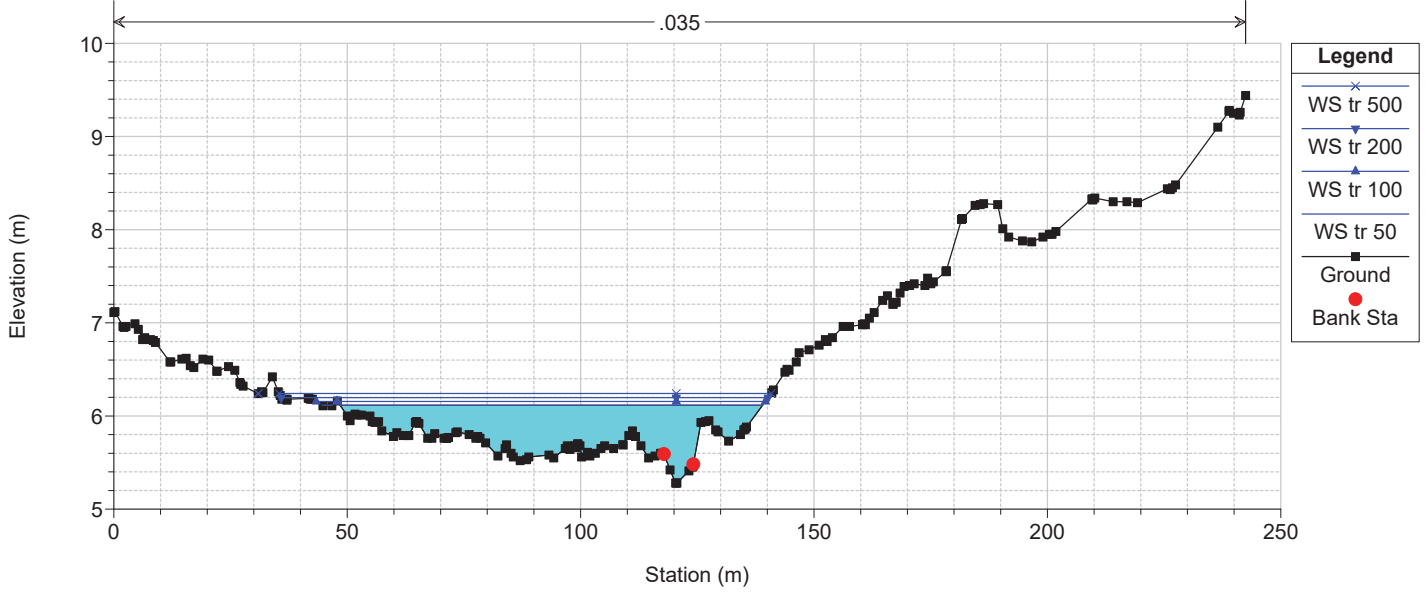
River = Lazzaretto Reach = asta RS = 560 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

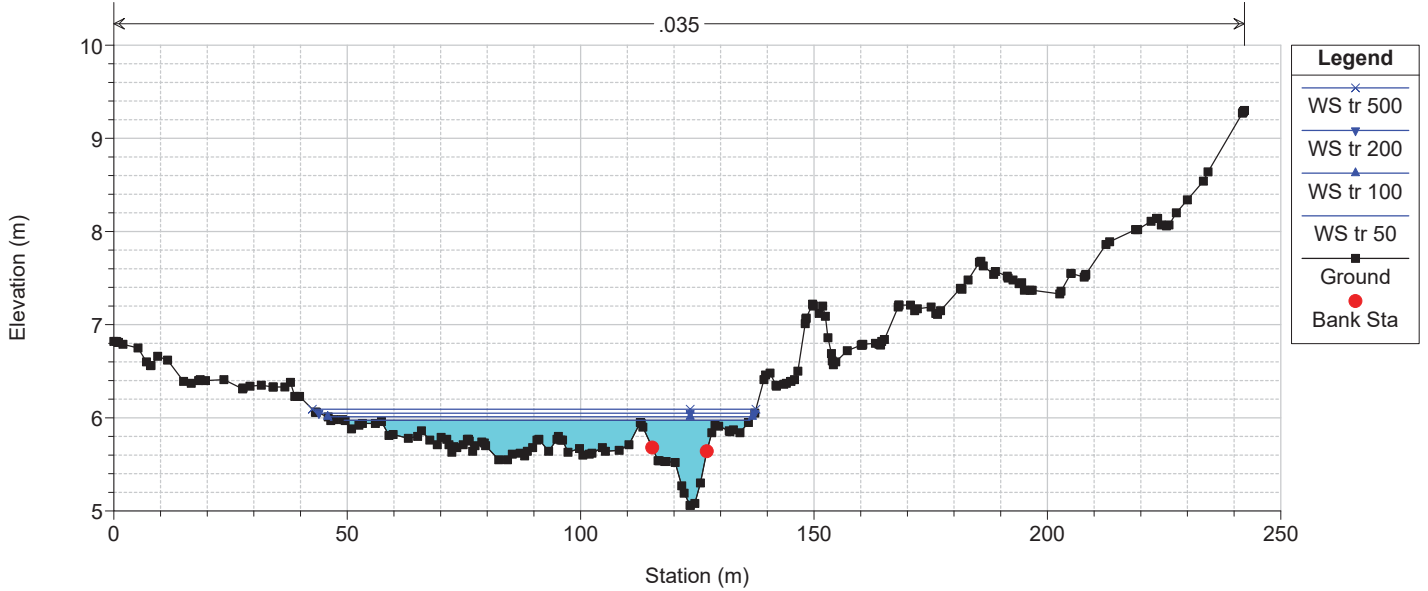
River = Lazzaretto Reach = asta RS = 540 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

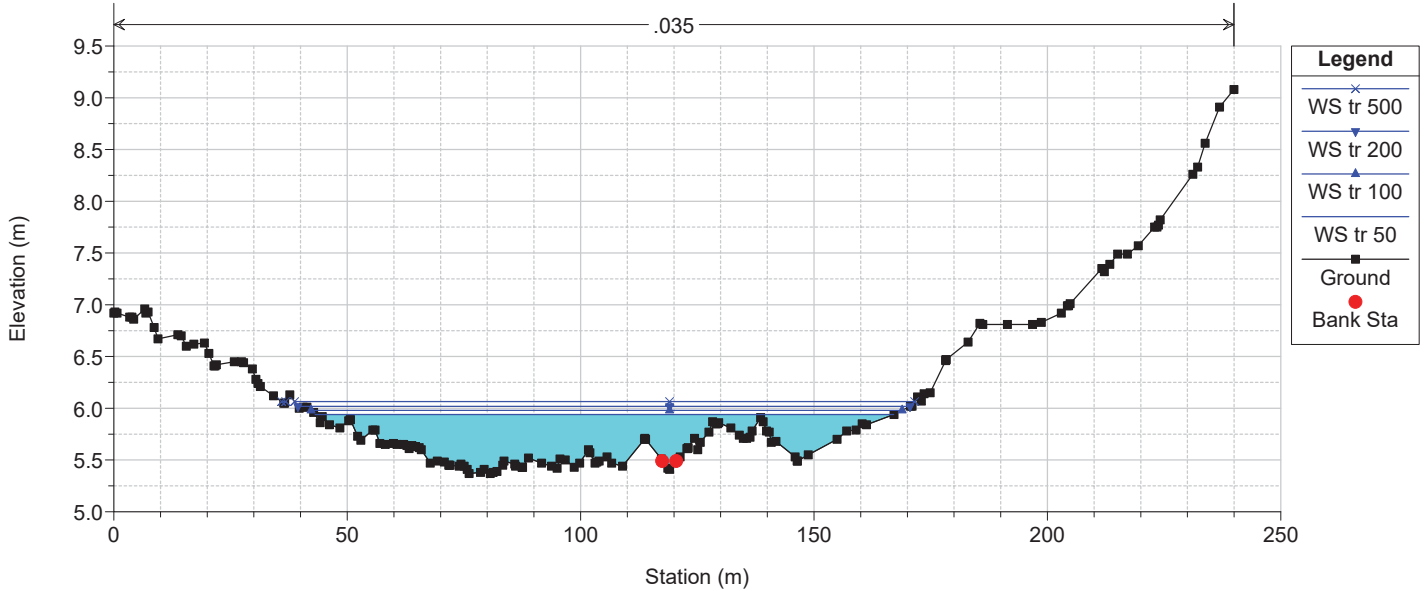
River = Lazzaretto Reach = asta RS = 520 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

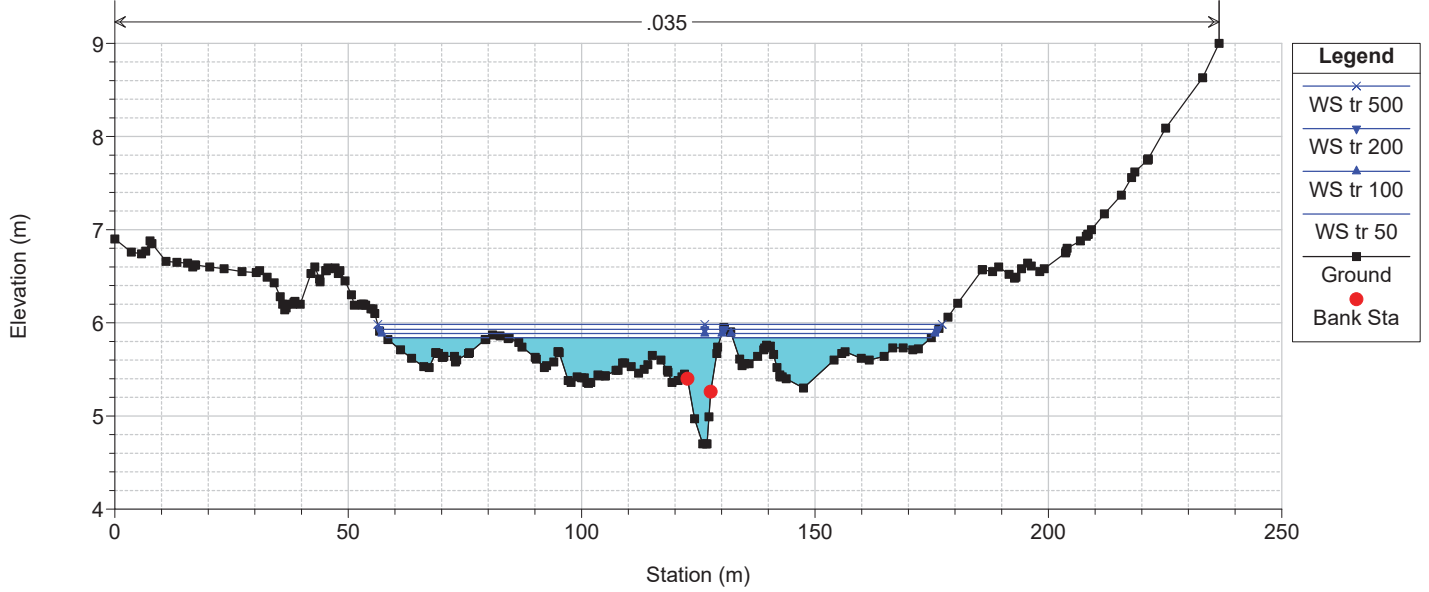
River = Lazzaretto Reach = asta RS = 500 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

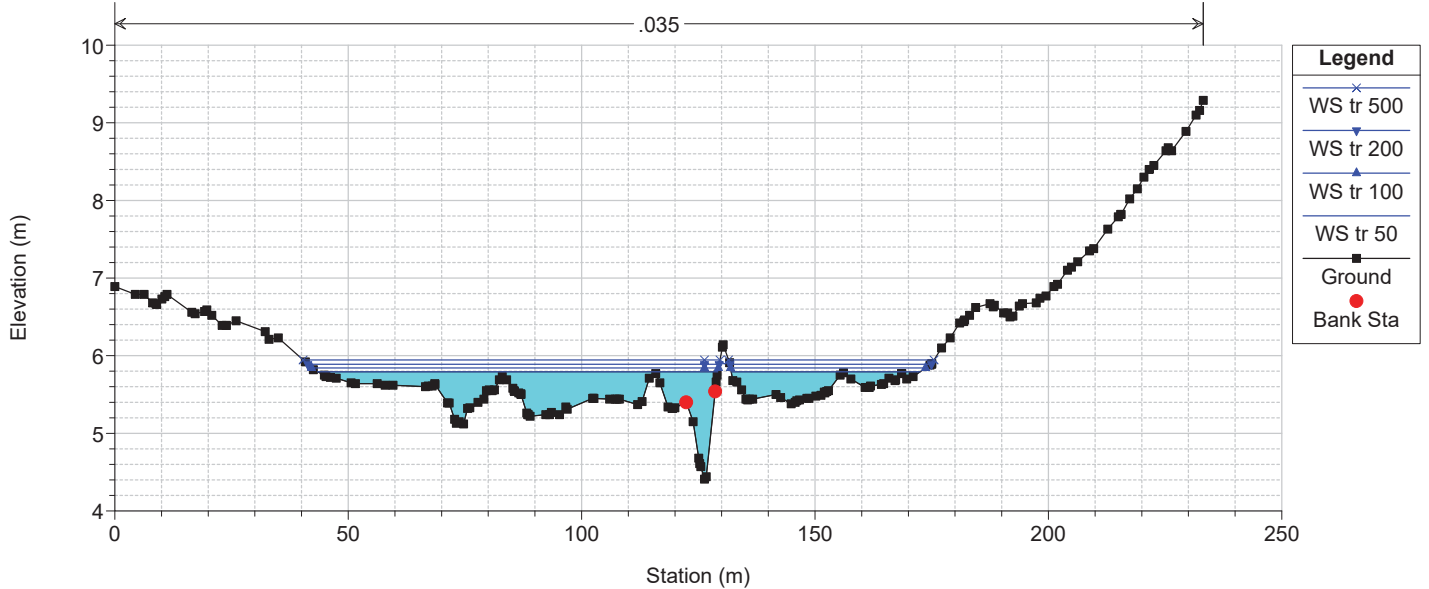
River = Lazzaretto Reach = asta RS = 480 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

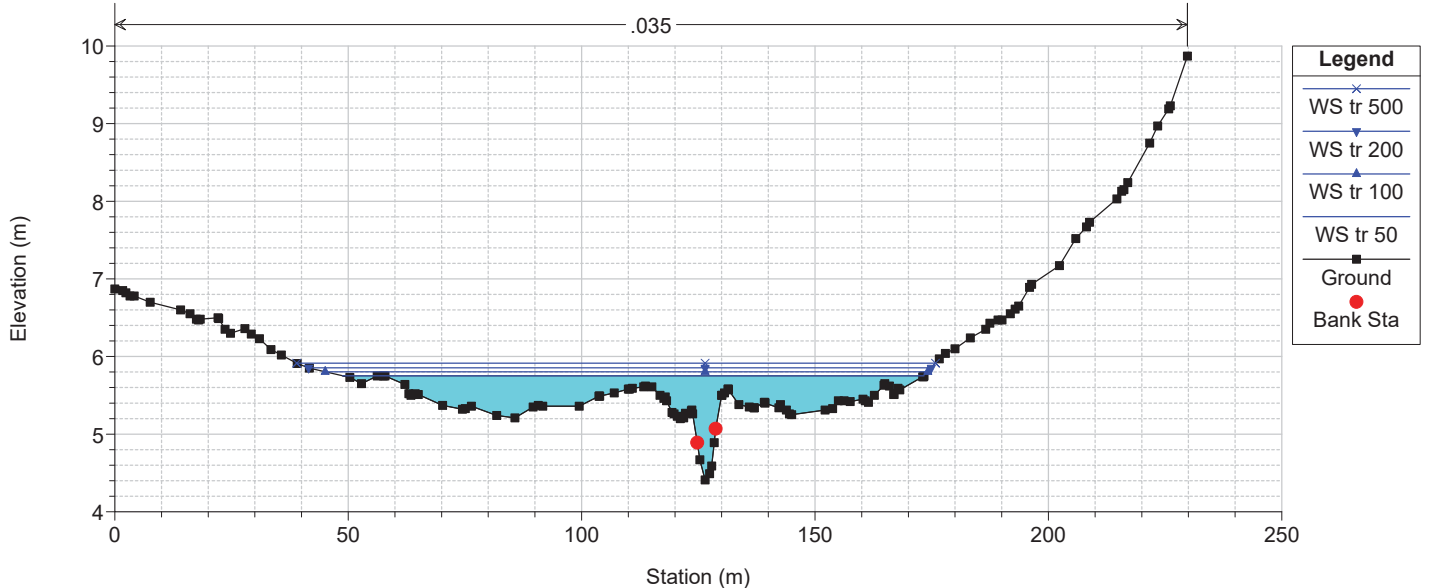
River = Lazzaretto Reach = asta RS = 460 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

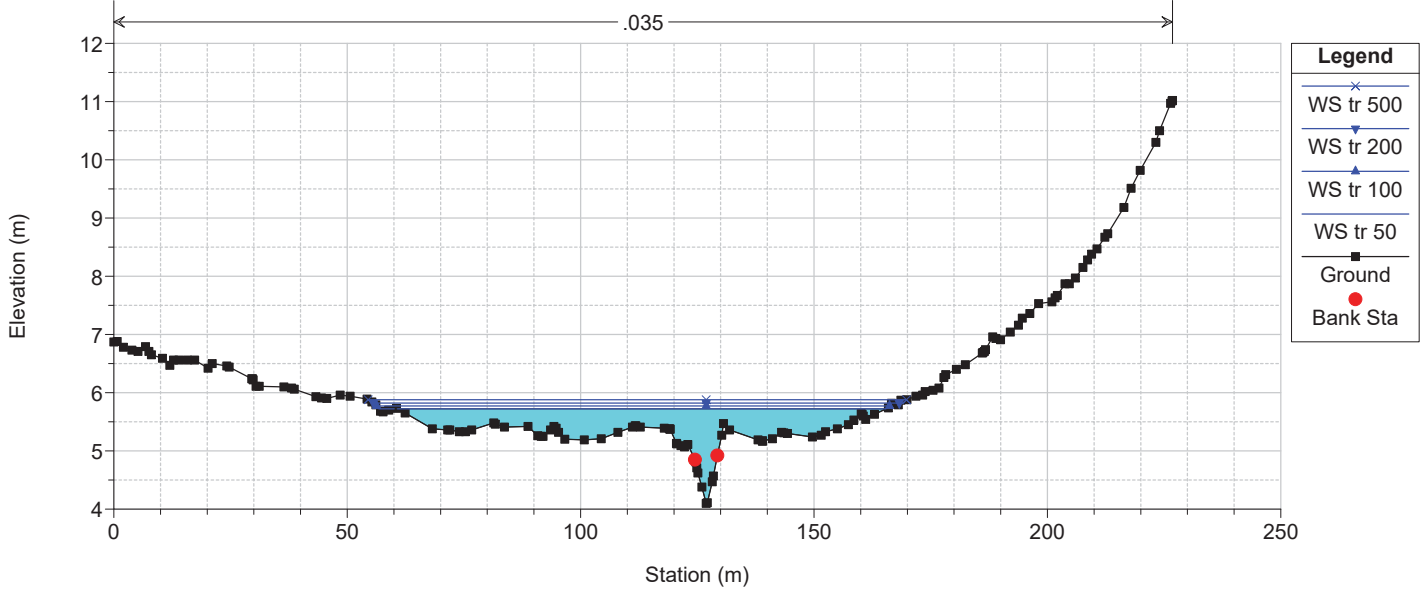
River = Lazzaretto Reach = asta RS = 440 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

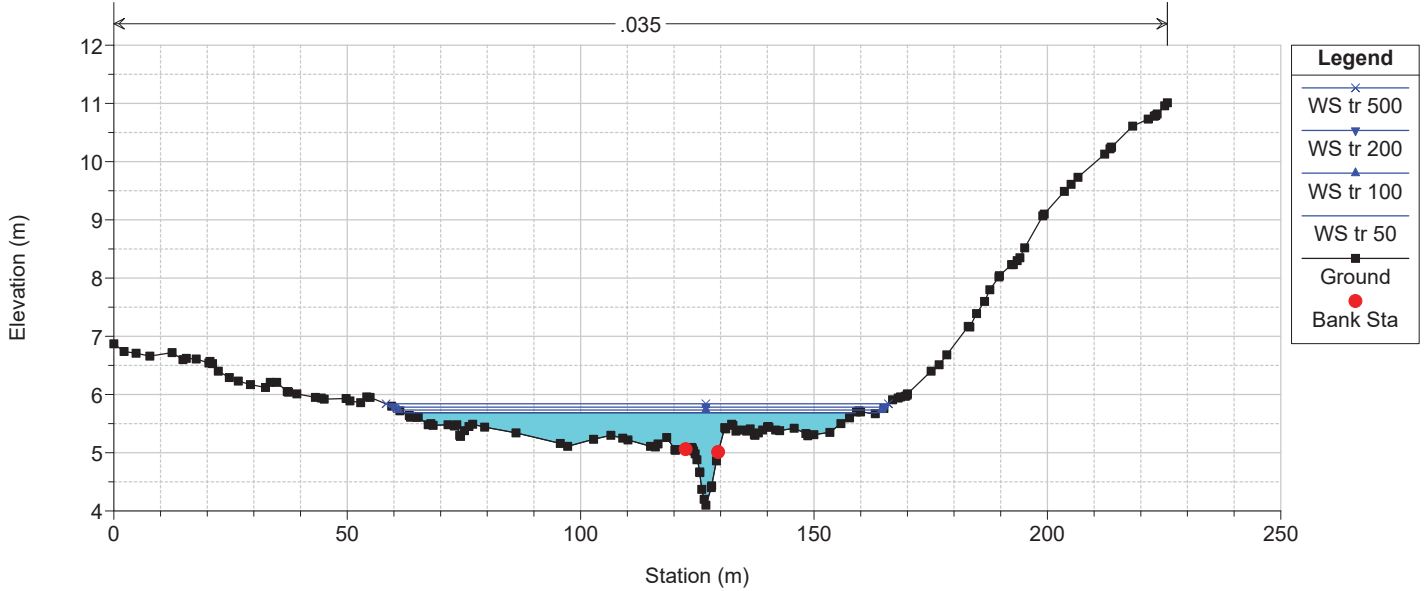
River = Lazzaretto Reach = asta RS = 420 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

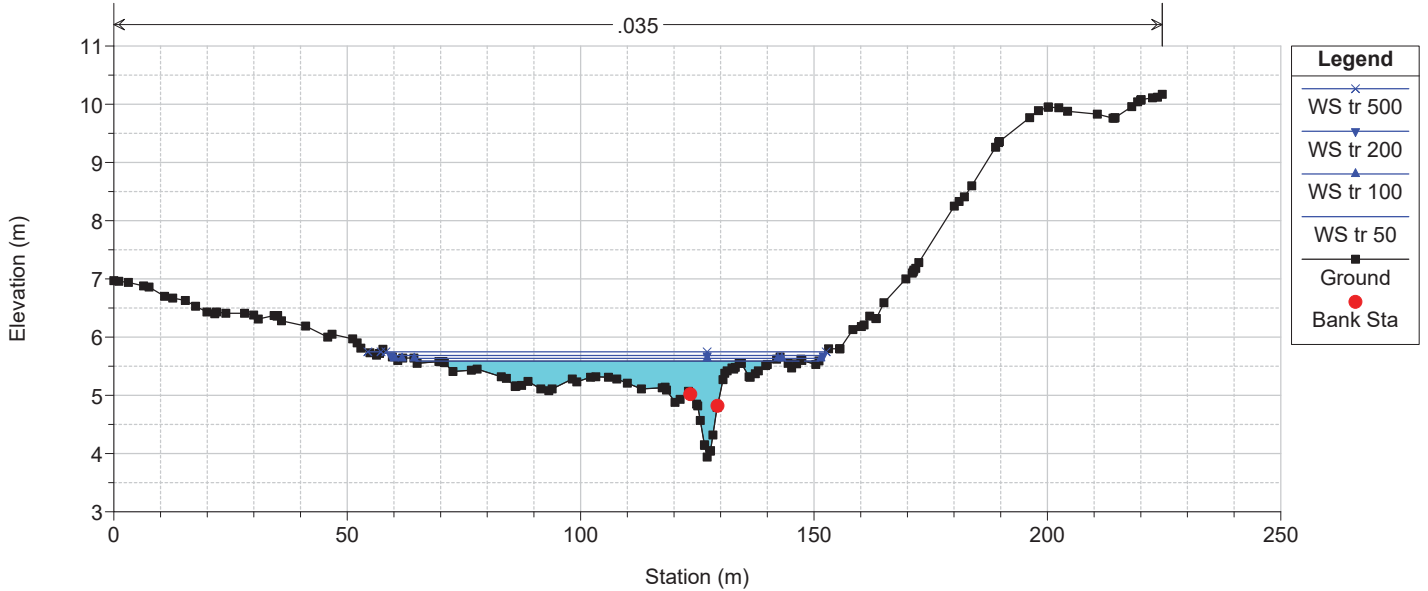
River = Lazzaretto Reach = asta RS = 400.0001 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

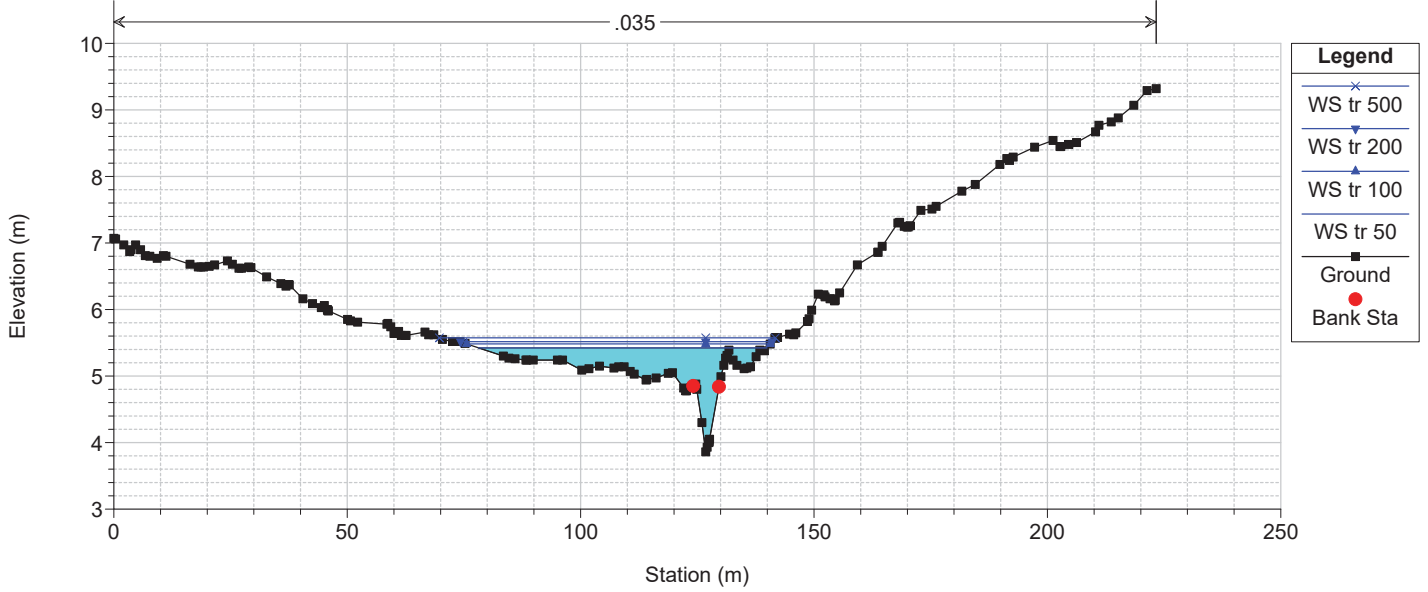
River = Lazzaretto Reach = asta RS = 380 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

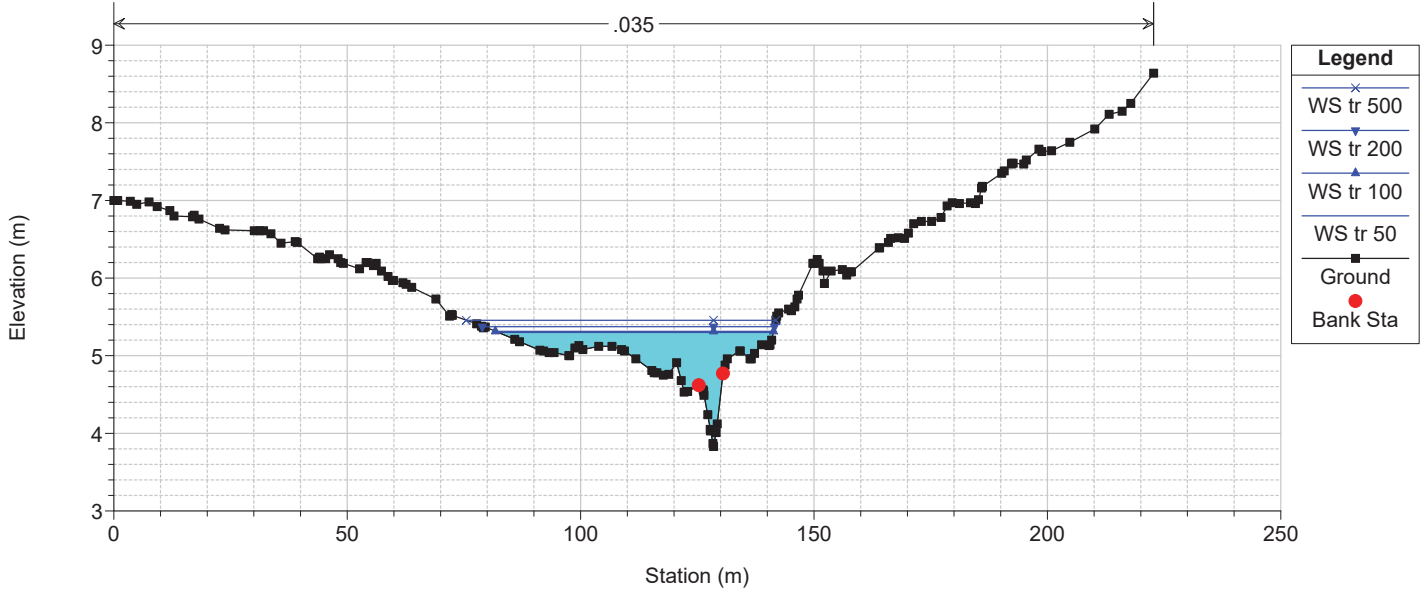
River = Lazzaretto Reach = asta RS = 360 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

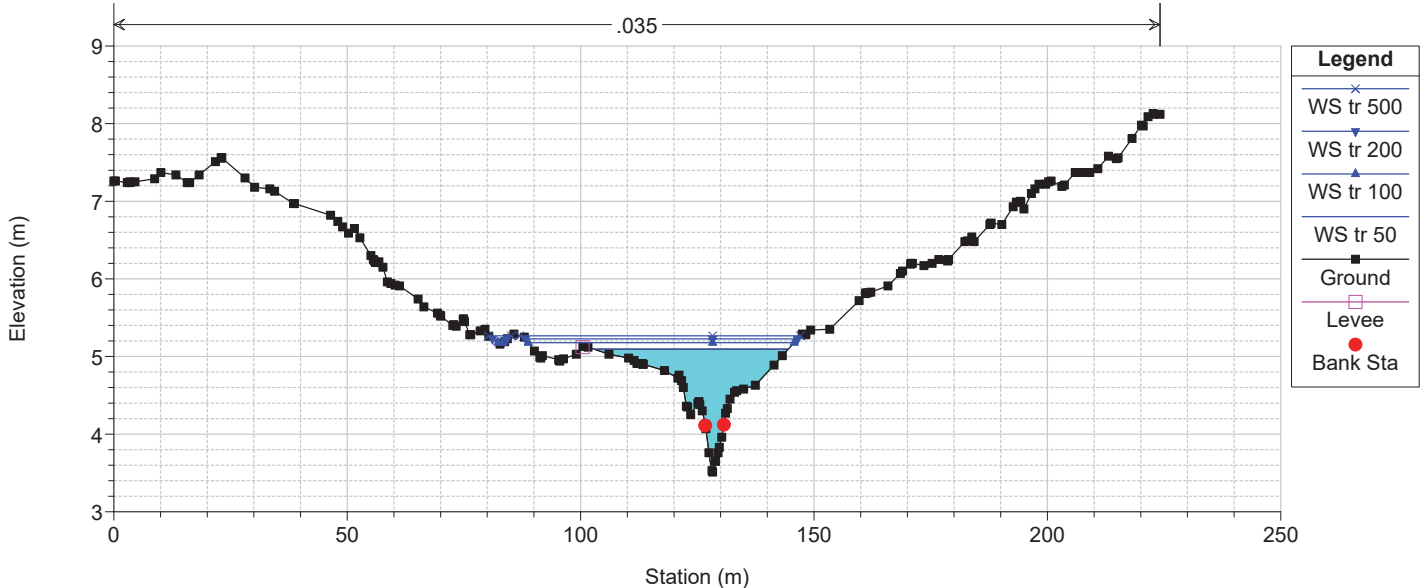
River = Lazzaretto Reach = asta RS = 340 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

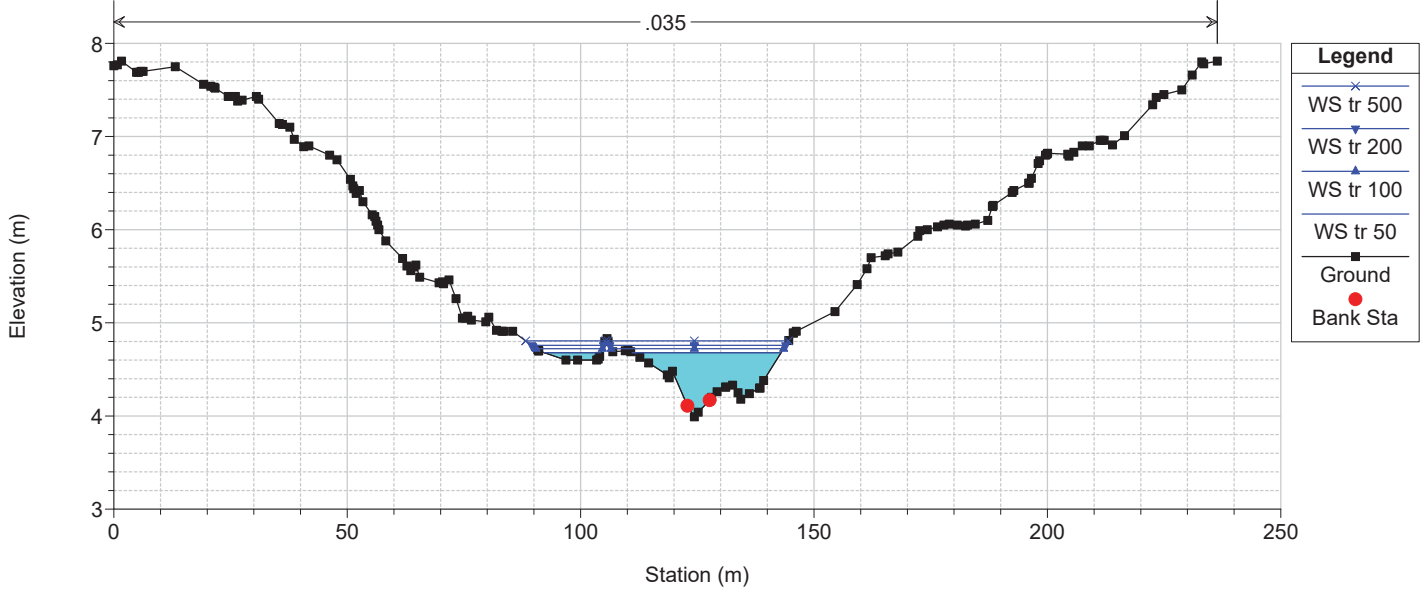
River = Lazzaretto Reach = asta RS = 320.0001 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

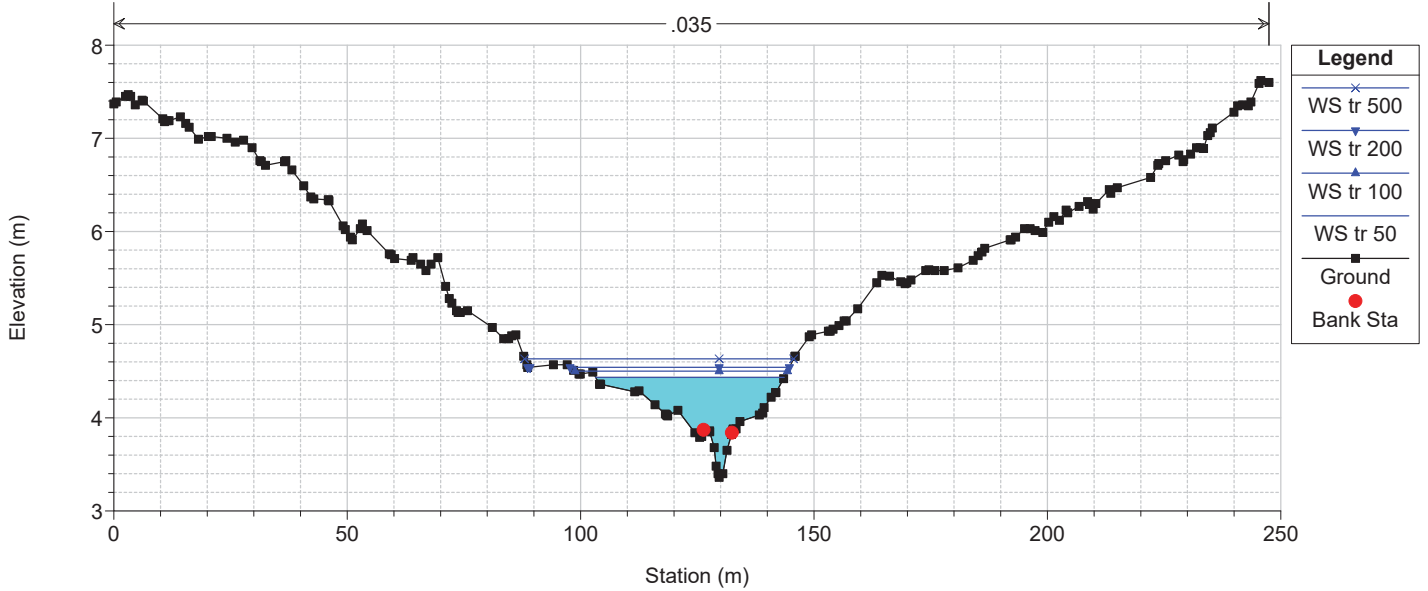
River = Lazzaretto Reach = asta RS = 300 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

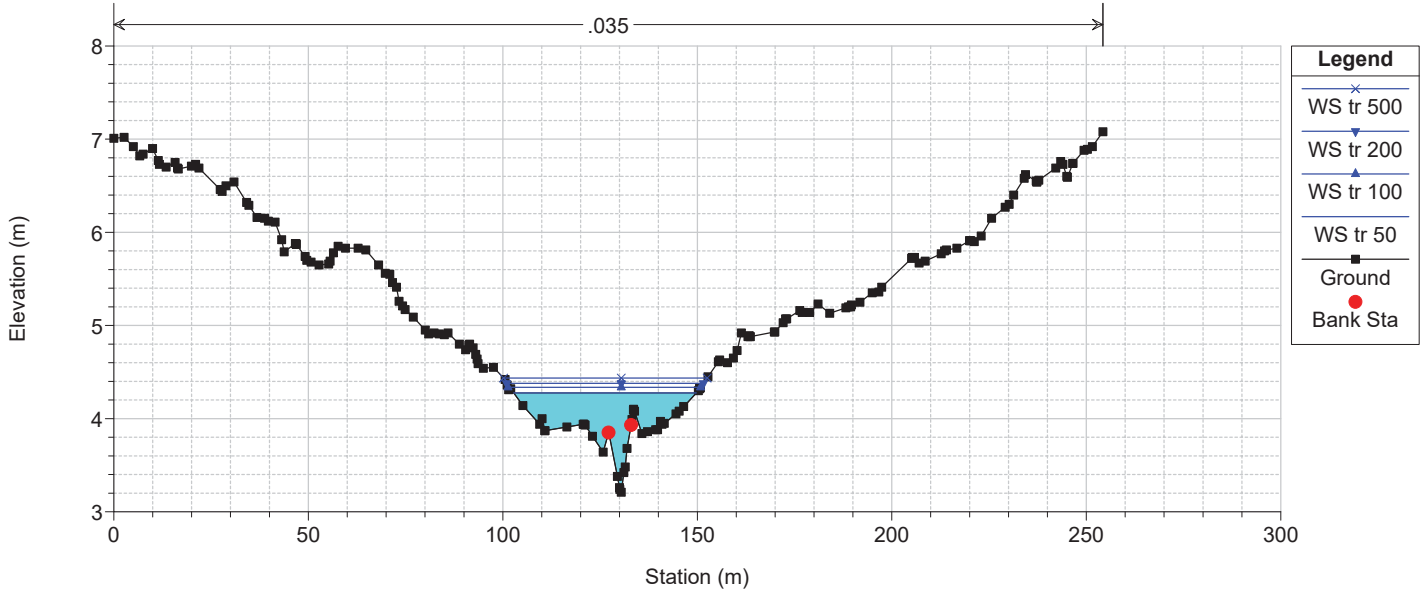
River = Lazzaretto Reach = asta RS = 280 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

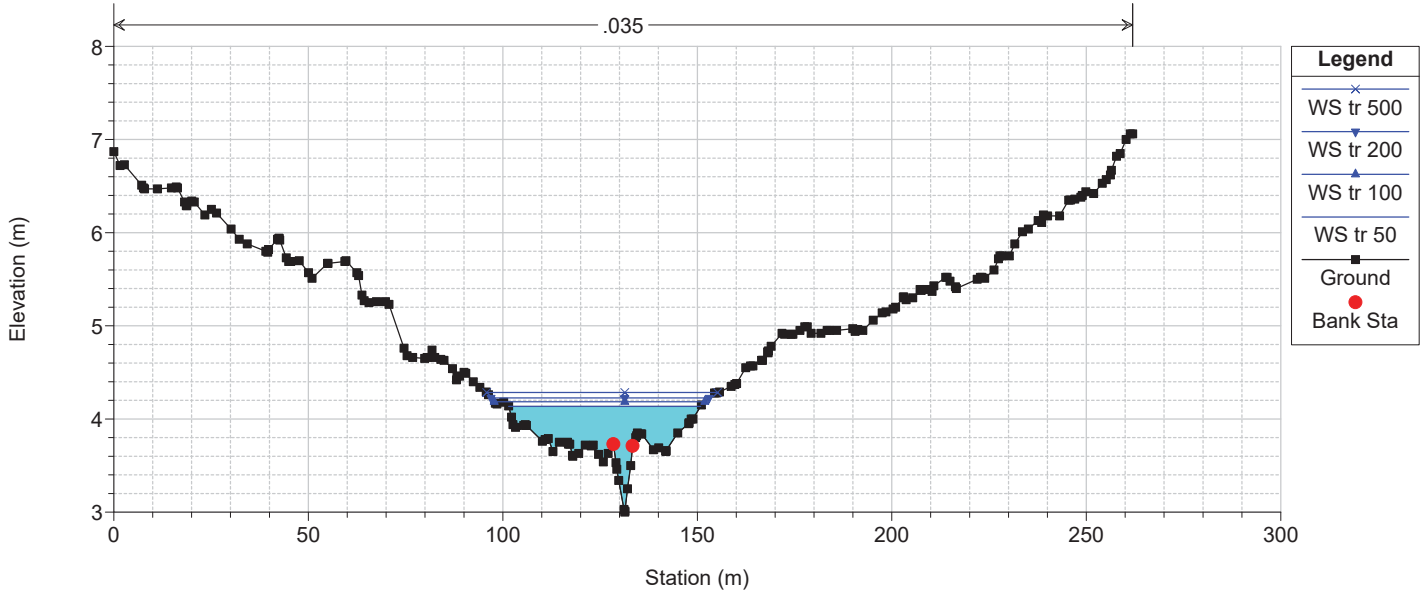
River = Lazzaretto Reach = asta RS = 260.0001 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

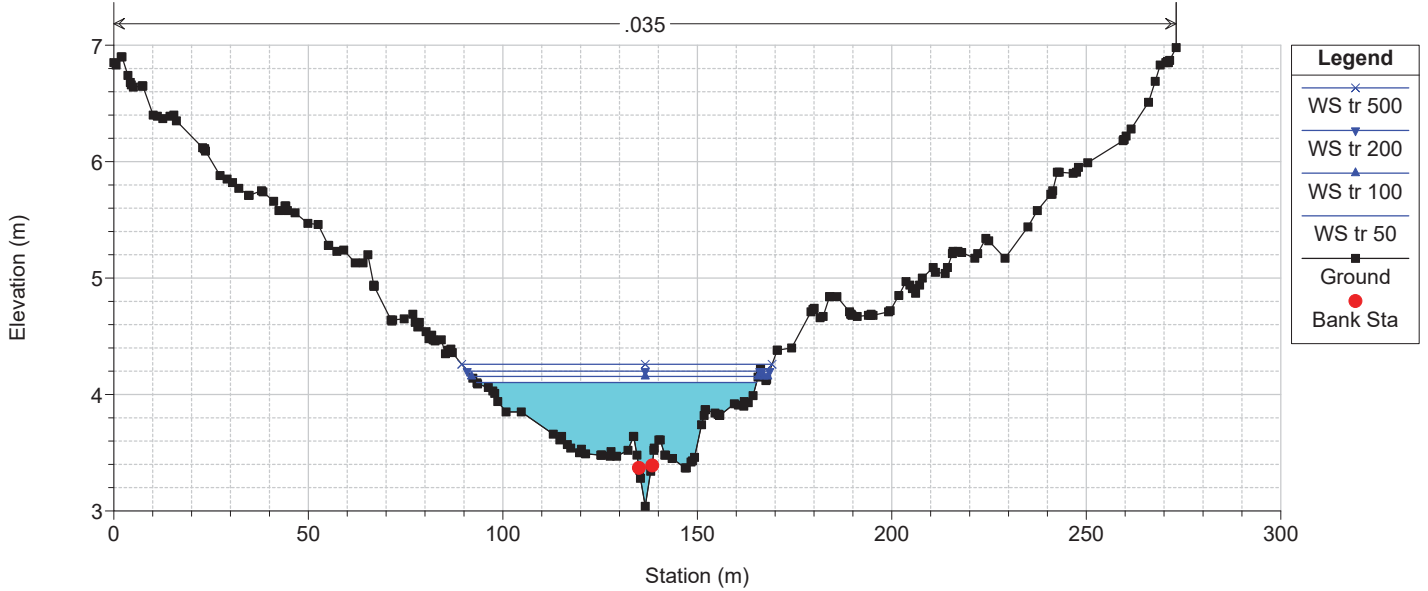
River = Lazzaretto Reach = asta RS = 239.9999 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

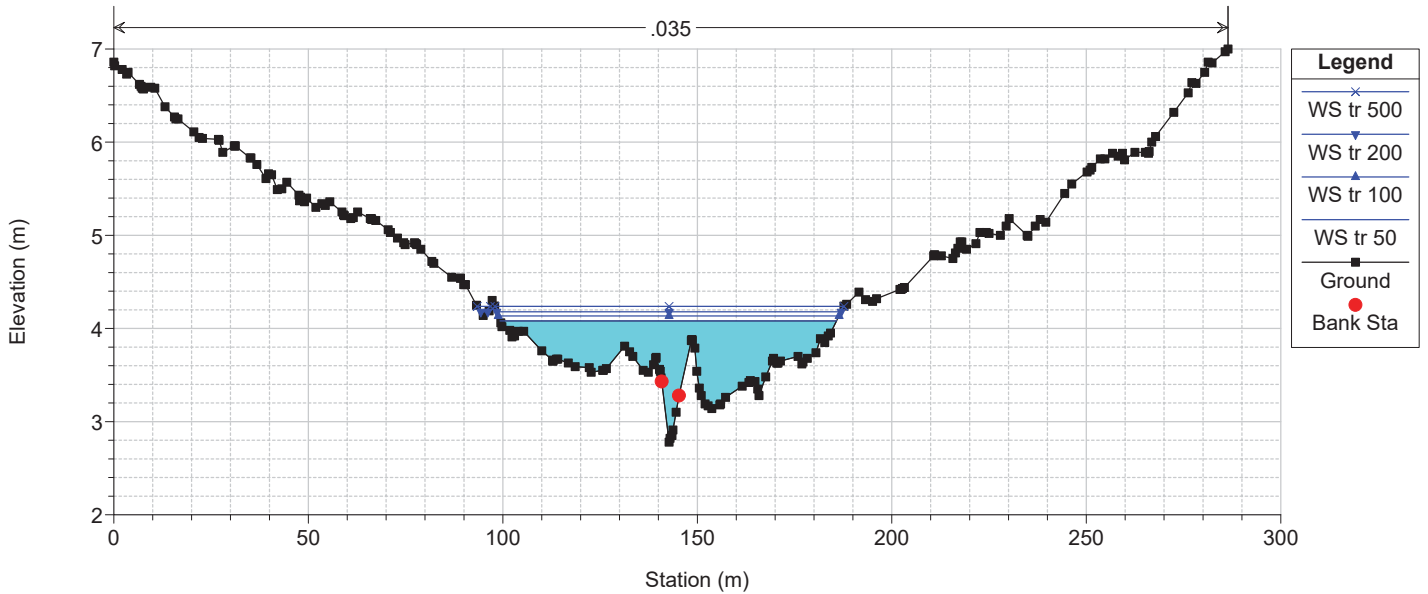
River = Lazzaretto Reach = asta RS = 220 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

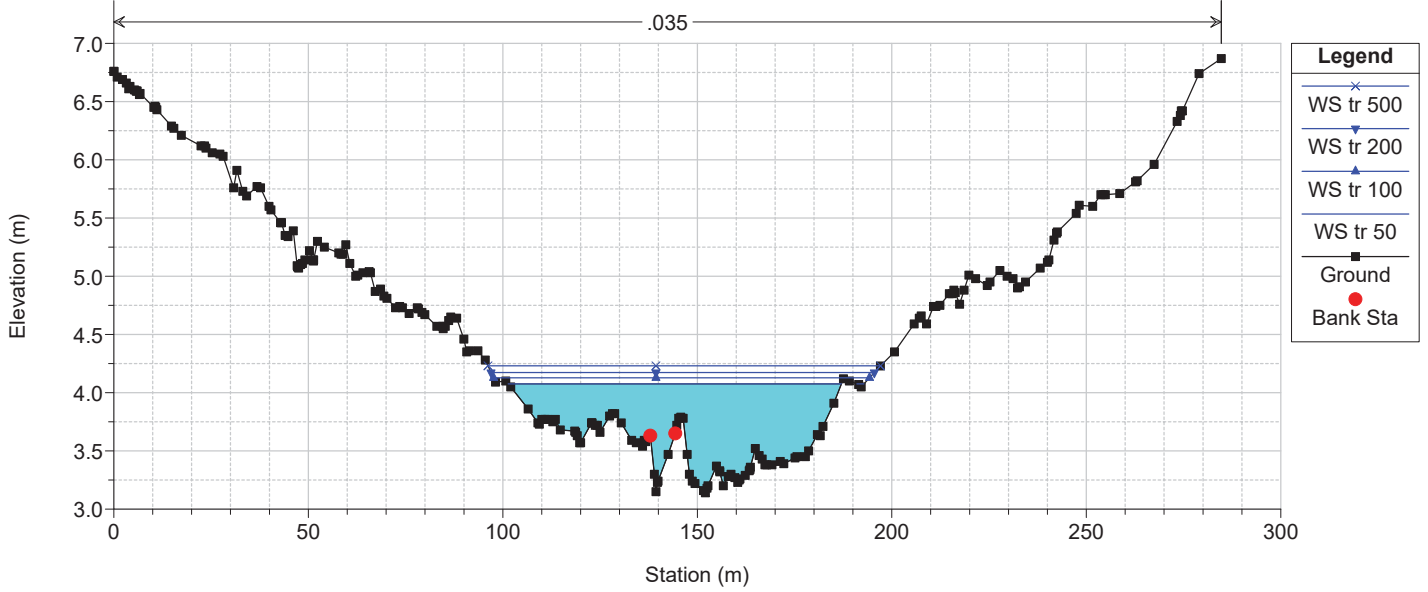
River = Lazzaretto Reach = asta RS = 200 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

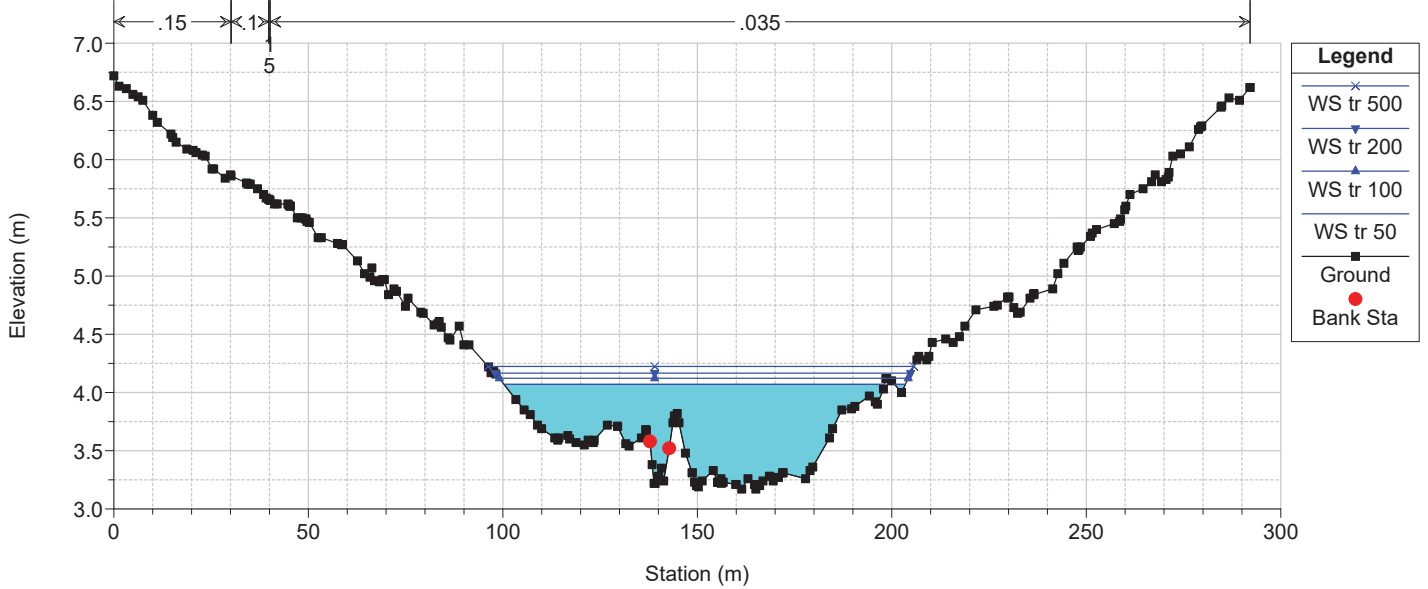
River = Lazzeretto Reach = asta RS = 193.8233 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

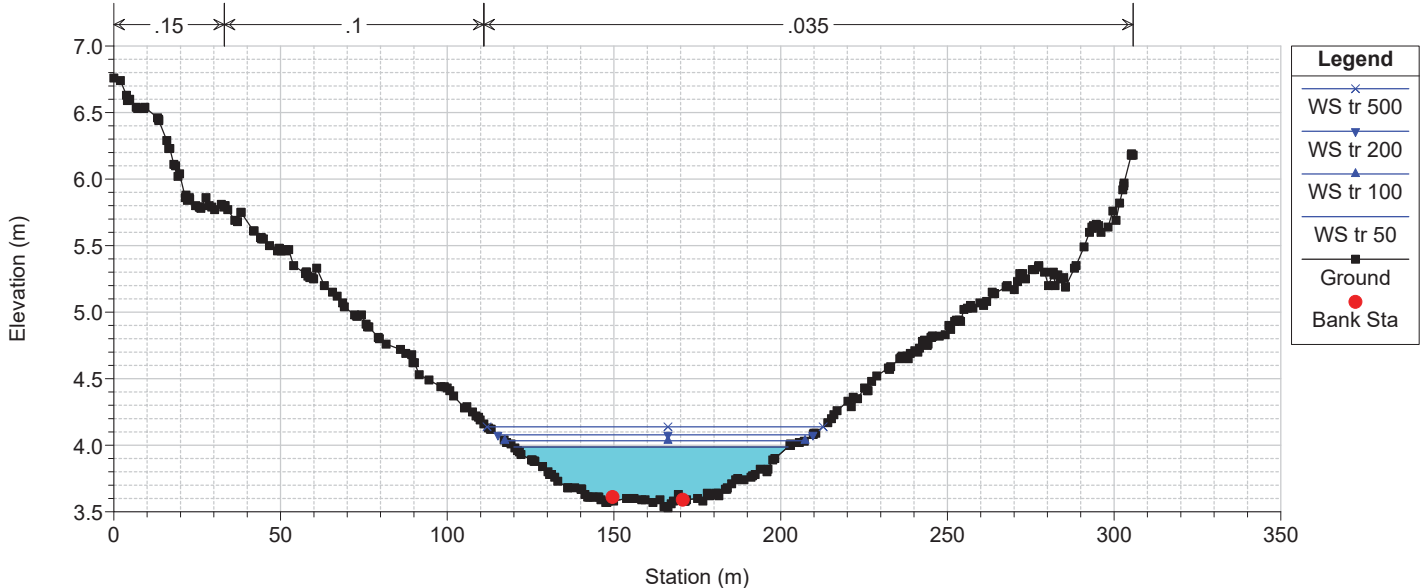
River = Lazzeretto Reach = asta RS = 183.3346 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

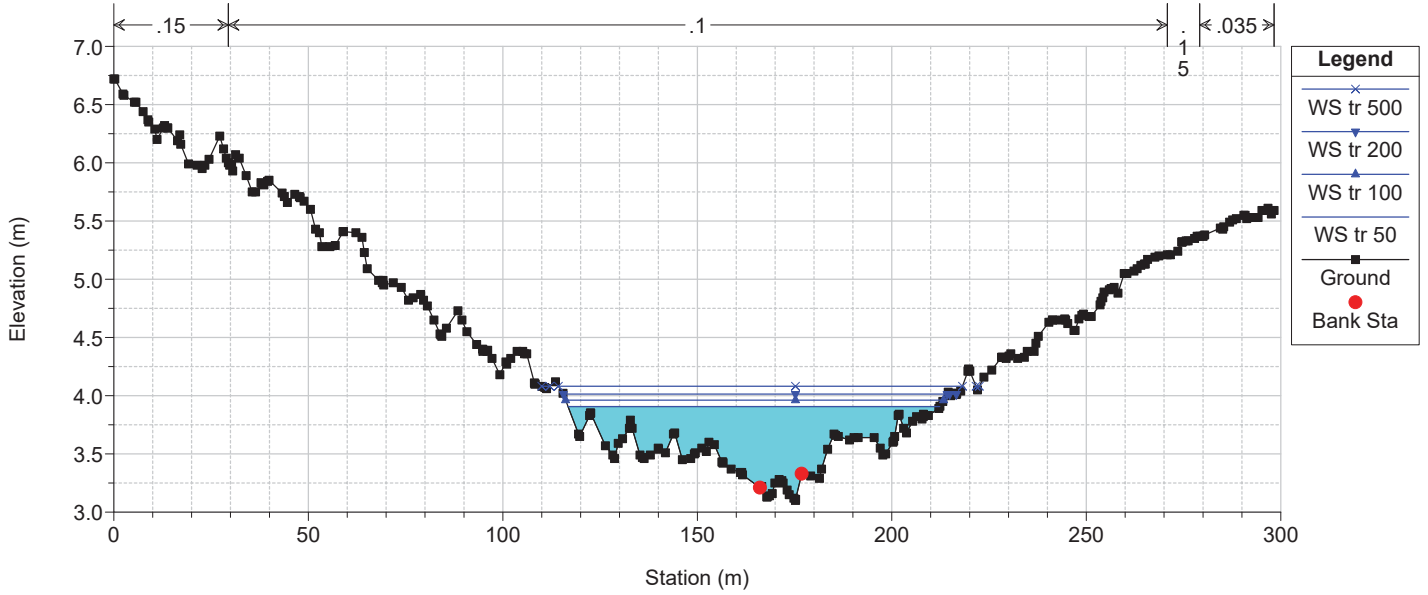
River = Lazzeretto Reach = asta RS = 170.8809 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

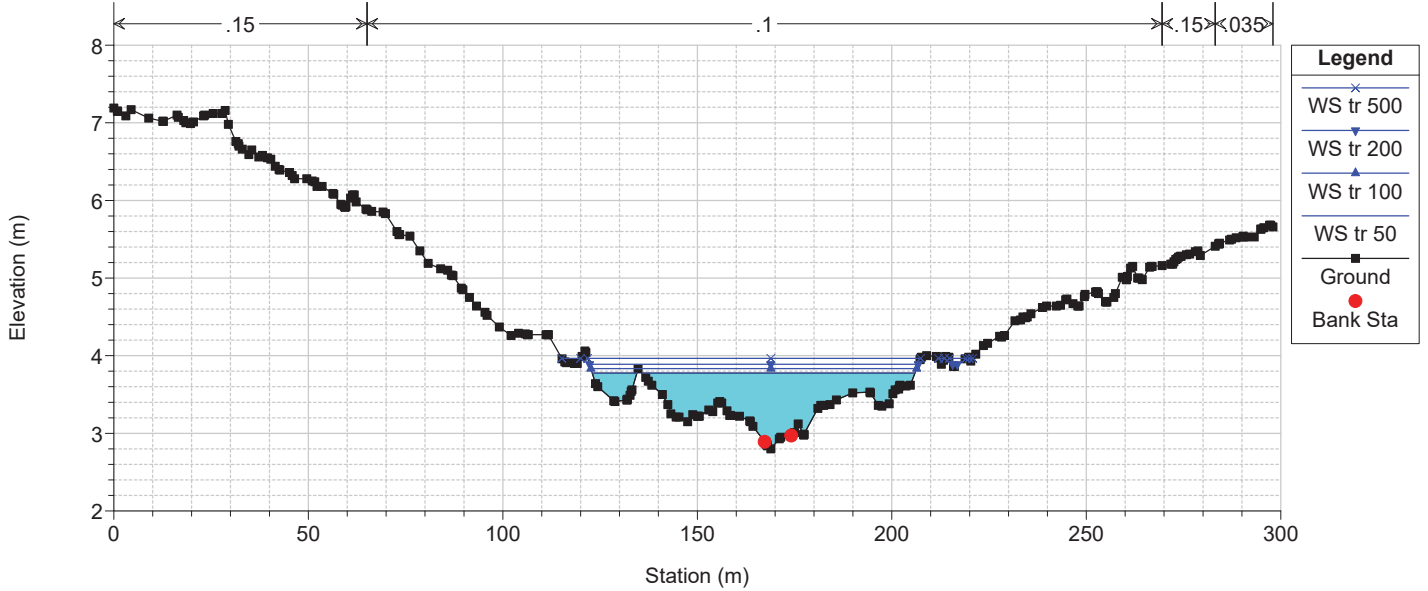
River = Lazzaretto Reach = asta RS = 161.8189 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

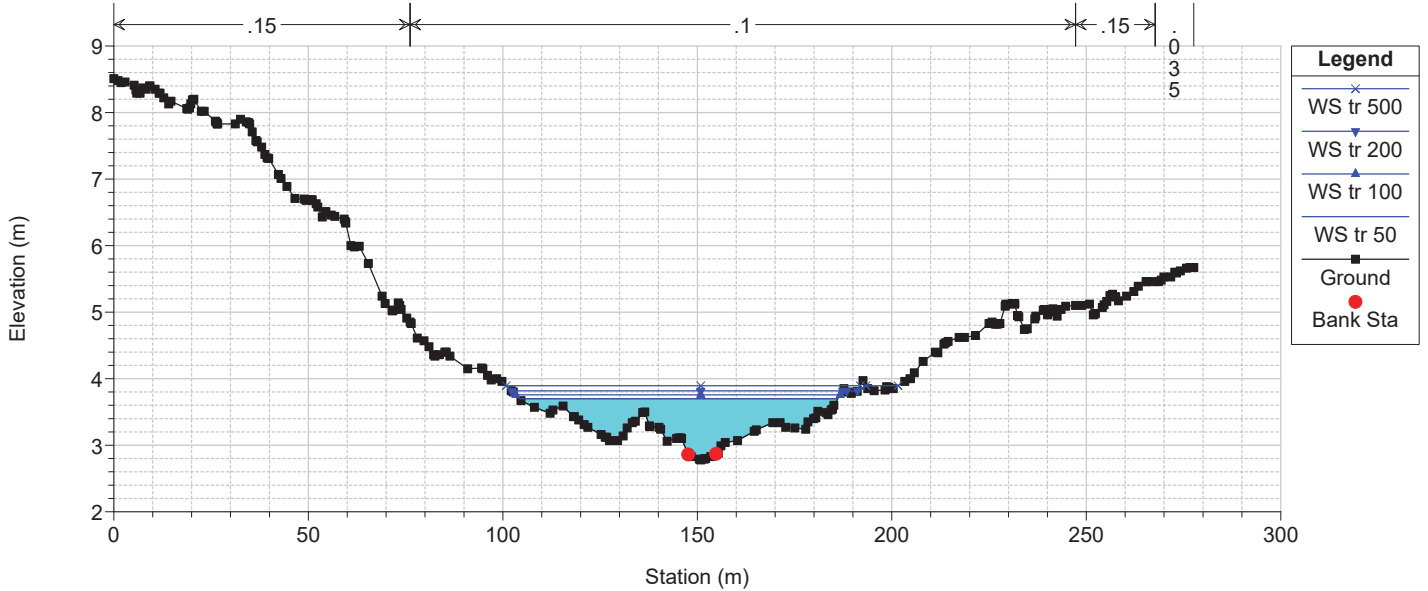
River = Lazzaretto Reach = asta RS = 154.1105 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

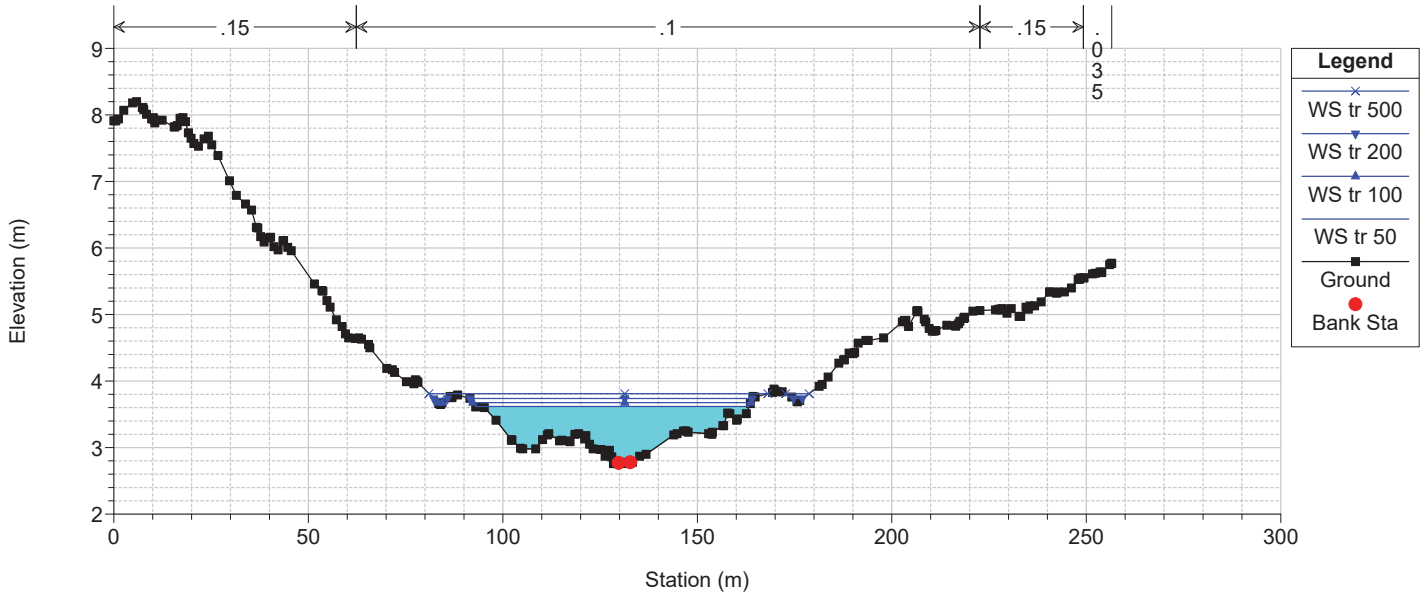
River = Lazzaretto Reach = asta RS = 149.0477 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

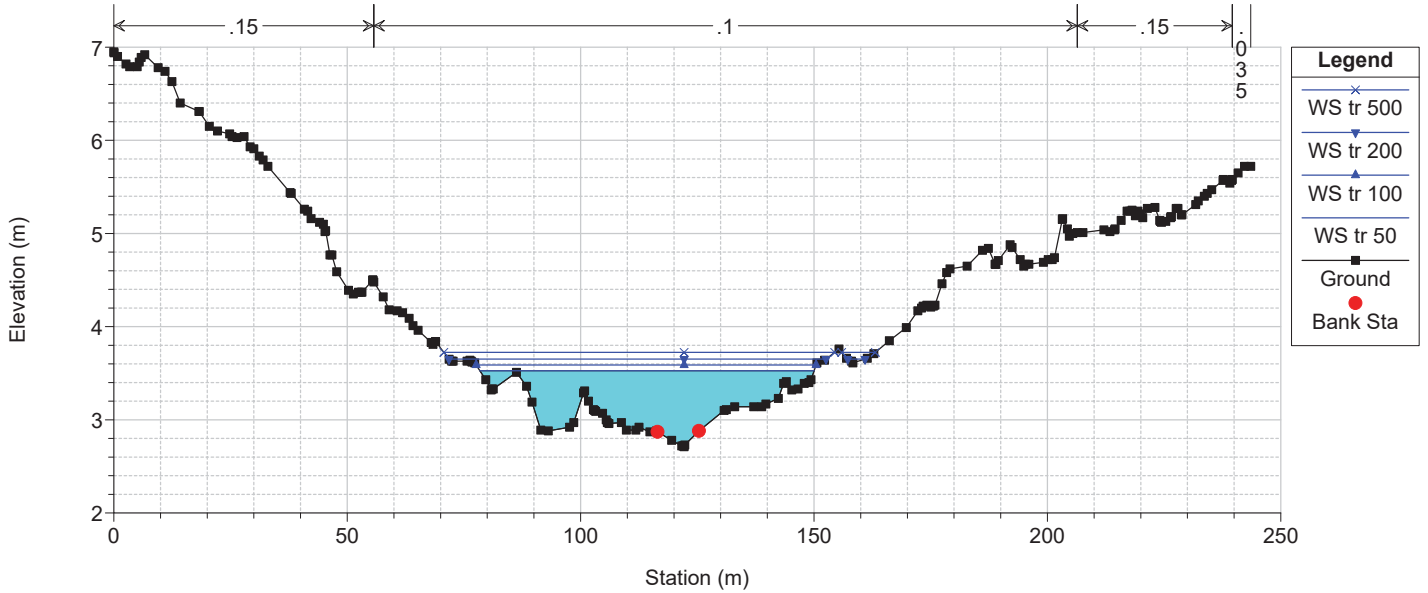
River = Lazzaretto Reach = asta RS = 144.2507 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

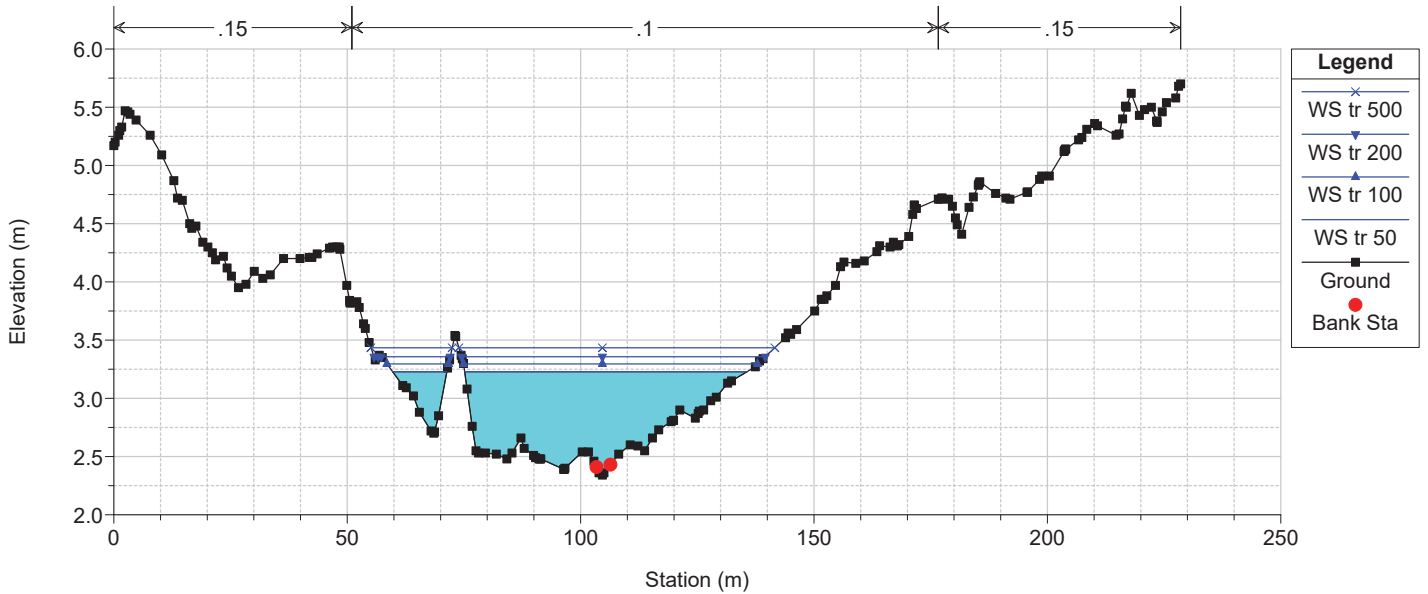
River = Lazzaretto Reach = asta RS = 140 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

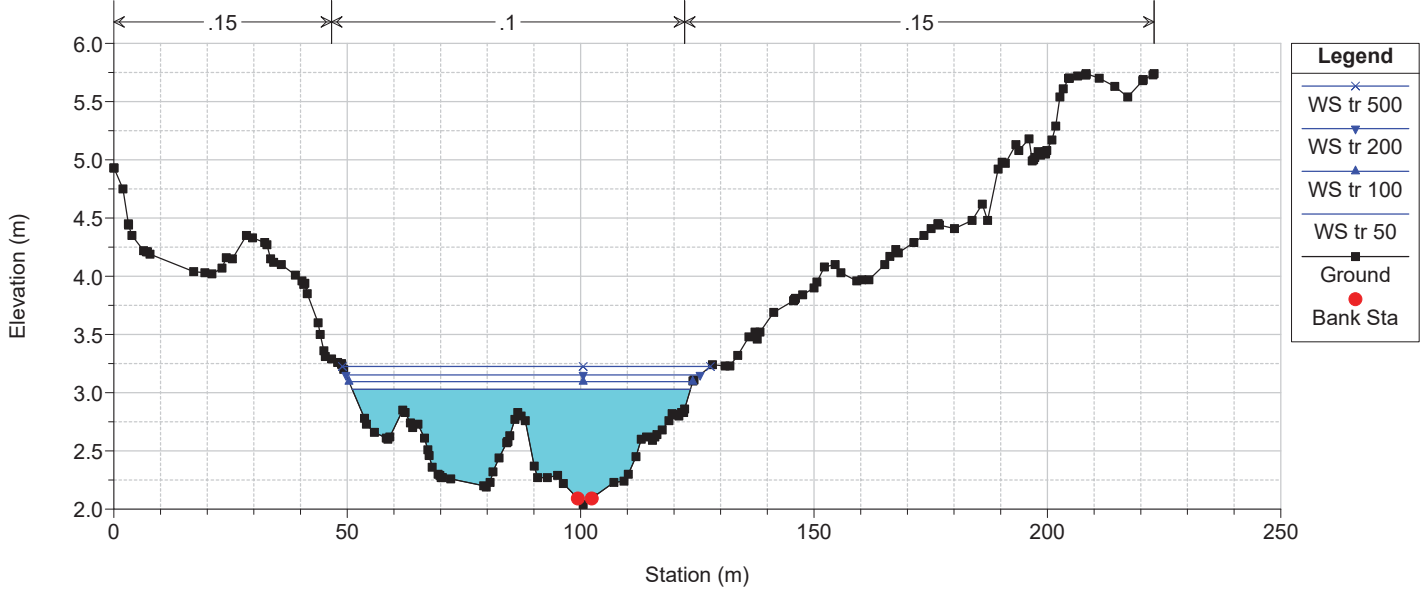
River = Lazzaretto Reach = asta RS = 120 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

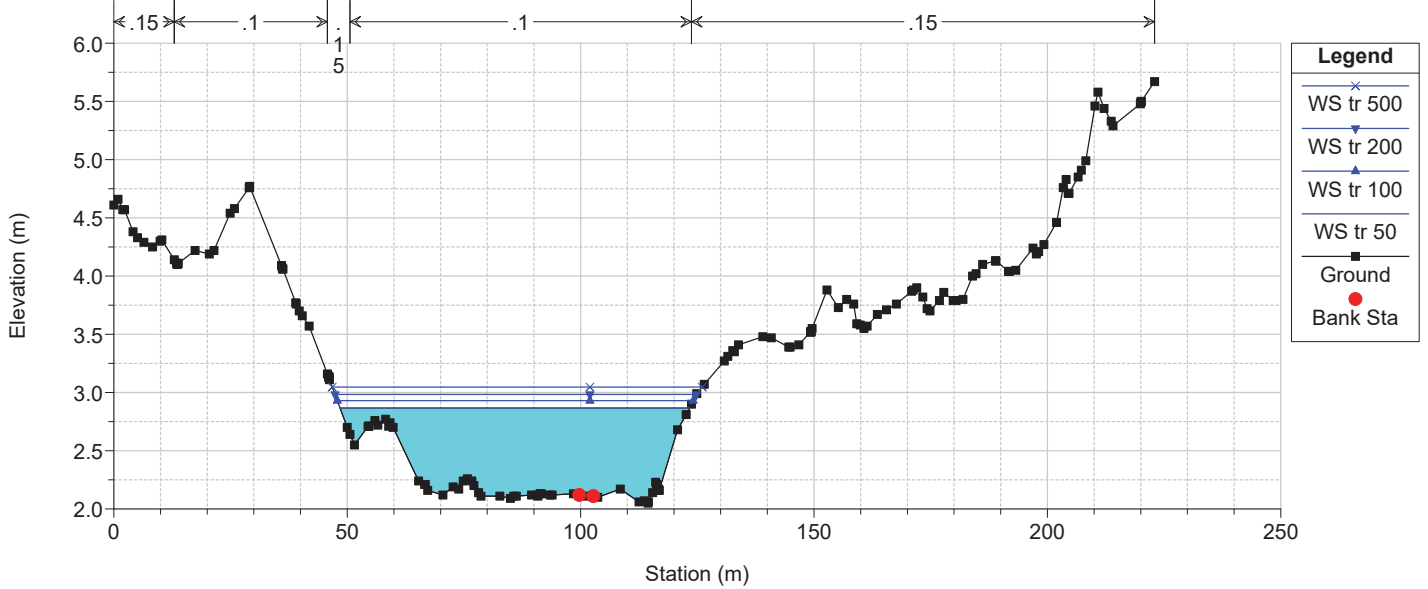
River = Lazzeretto Reach = asta RS = 99.99995 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

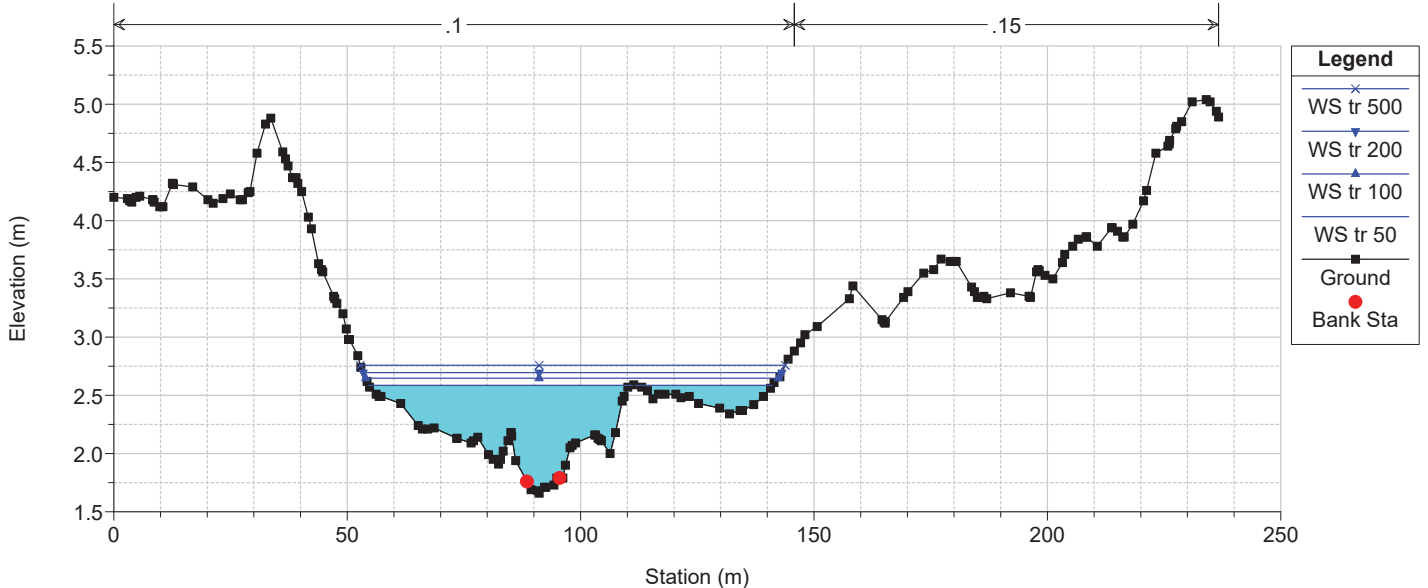
River = Lazzeretto Reach = asta RS = 80.00003 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

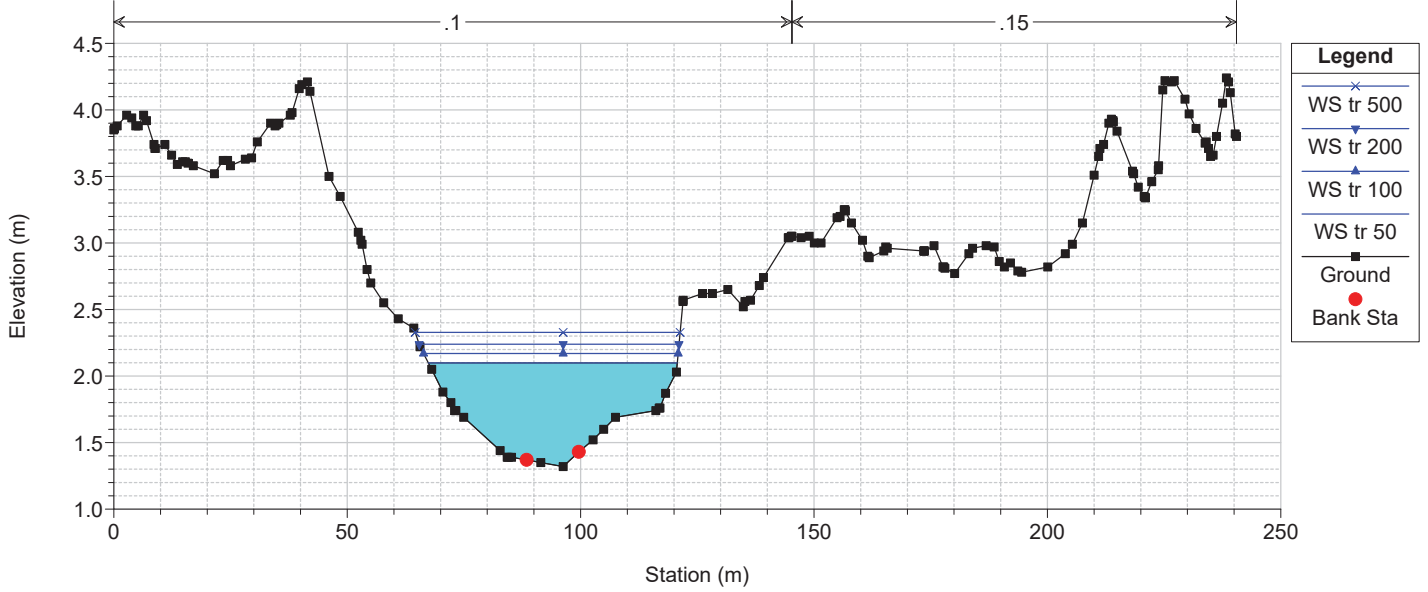
River = Lazzeretto Reach = asta RS = 59.99999 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

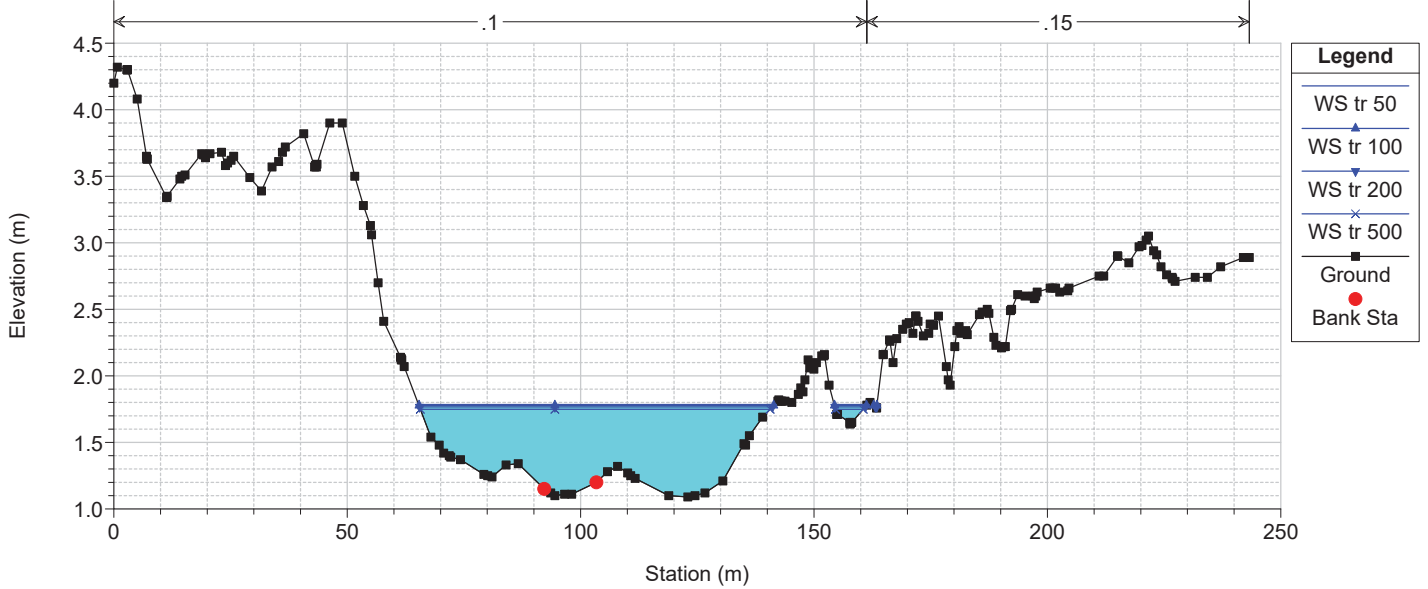
River = Lazzaretto Reach = asta RS = 39.99999 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

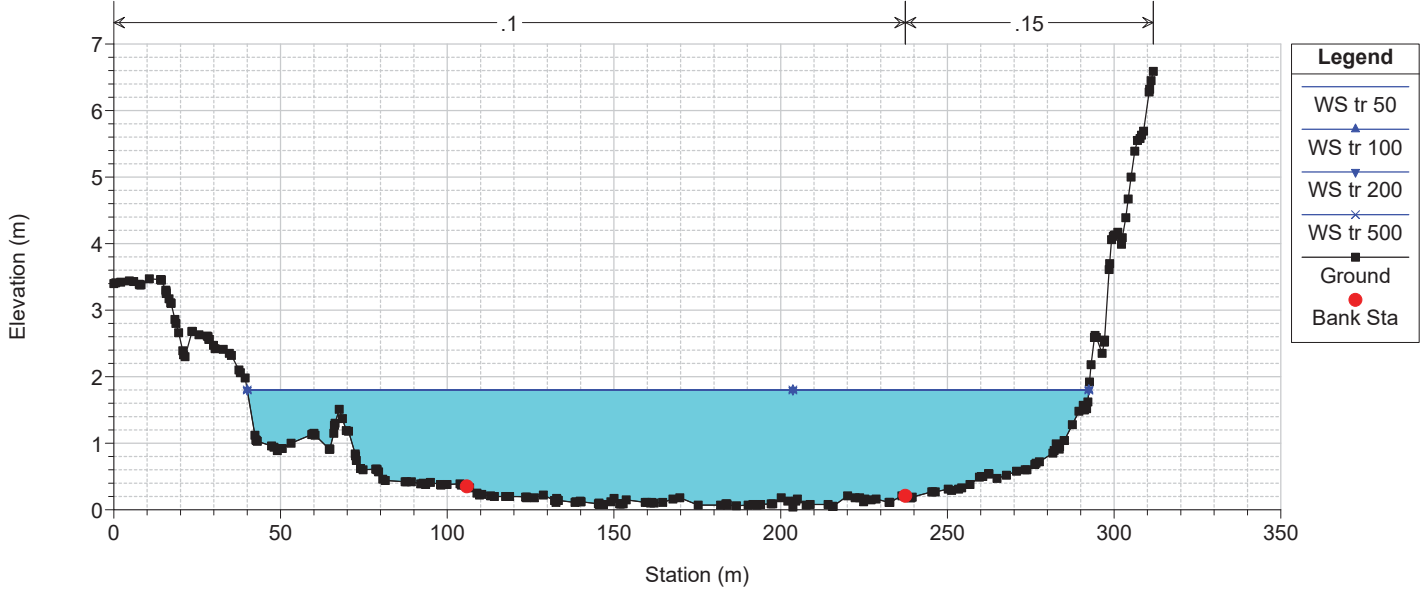
River = Lazzaretto Reach = asta RS = 20.00003 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



lazzaretto280702017 Plan: Plan 01 10/26/2017

Geom: lazzaretto28072017 Flow: lazzaretto28072017

River = Lazzaretto Reach = asta RS = 5.006337 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



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	0.001321	0.84	47.08	97.54	0.28
asta	1640	tr 100	32.36	17.87	19.00	18.66	19.02	0.001325	0.87	52.72	102.93	0.28
asta	1640	tr 200	37.67	17.87	19.05	18.69	19.07	0.001444	0.94	57.62	105.17	0.30
asta	1640	tr 500	44.86	17.87	19.10	18.73	19.13	0.001550	1.01	63.05	109.96	0.31
asta	1620	tr 50	27.15	18.20	18.86	18.72	18.91	0.005493	1.30	28.14	94.29	0.54
asta	1620	tr 100	32.36	18.20	18.91	18.75	18.97	0.005554	1.39	33.52	98.04	0.55
asta	1620	tr 200	37.67	18.20	18.96	18.78	19.02	0.005079	1.39	38.28	100.07	0.53
asta	1620	tr 500	44.86	18.20	19.01	18.86	19.07	0.005001	1.44	43.07	100.65	0.54
asta	1600	tr 50	27.15	17.70	18.59	18.58	18.74	0.013889	2.34	17.59	51.22	0.88
asta	1600	tr 100	32.36	17.70	18.63	18.62	18.79	0.013964	2.45	19.88	52.94	0.90
asta	1600	tr 200	37.67	17.70	18.67	18.66	18.85	0.014317	2.57	22.12	55.47	0.92
asta	1600	tr 500	44.86	17.70	18.73	18.73	18.91	0.013596	2.62	26.41	69.37	0.90
asta	1580	tr 50	27.15	17.60	18.25	18.25	18.41	0.019606	2.31	15.58	47.47	1.00
asta	1580	tr 100	32.36	17.60	18.29	18.29	18.47	0.019068	2.40	17.78	49.87	1.00
asta	1580	tr 200	37.67	17.60	18.33	18.33	18.52	0.018434	2.48	19.98	51.99	1.00
asta	1580	tr 500	44.86	17.60	18.40	18.40	18.59	0.018087	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	0.080073	3.44	11.87	67.49	1.85
asta	1440	tr 100	32.36	13.71	14.40	14.41	14.62	0.045700	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	0.015874	1.79	35.07	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	0.020691	2.21	25.42	128.24	1.00
asta	1420	tr 200	37.67	13.43	14.05	14.04	14.14	0.018904	2.19	29.01	135.17	0.97
asta	1420	tr 500	44.86	13.43	14.08	14.07	14.18	0.018100	2.23	33.53	138.43	0.96
asta	1404.303	tr 50	27.15	13.46	13.88	13.76	13.91	0.005419	0.79	35.85	140.18	0.48
asta	1404.303	tr 100	32.36	13.46	13.91		13.95	0.005539	0.86	39.82	144.95	0.49
asta	1404.303	tr 200	37.67	13.46	13.94		13.97	0.005846	0.93	43.51	146.63	0.51
asta	1404.303	tr 500	44.86	13.46	13.97		14.01	0.005983	0.99	48.29	148.33	0.52
asta	1393.949	tr 50	27.15	13.39	13.73	13.73	13.81	0.026726	1.82	21.42	127.84	1.06
asta	1393.949	tr 100	32.36	13.39	13.75	13.75	13.84	0.026543	1.89	24.06	129.59	1.07
asta	1393.949	tr 200	37.67	13.39	13.77	13.77	13.87	0.024033	1.89	27.40	136.99	1.03
asta	1393.949	tr 500	44.86	13.39	13.80	13.80	13.91	0.023694	1.97	30.77	139.35	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	0.206626	2.97	7.83	57.58	2.55
asta	1360	tr 100	32.36	12.46	12.70	12.85	13.24	0.142470	2.89	10.00	61.24	2.21
asta	1360	tr 200	37.67	12.46	12.74	12.88	13.21	0.099384	2.76	12.51	64.68	1.91
asta	1360	tr 500	44.86	12.46	12.80	12.92	13.19	0.063466	2.58	16.30	68.91	1.58
asta	1340	tr 50	27.15	12.09	12.43	12.43	12.54	0.019881	1.25	18.21	80.53	0.86
asta	1340	tr 100	32.36	12.09	12.46	12.46	12.59	0.018702	1.30	20.87	85.19	0.85
asta	1340	tr 200	37.67	12.09	12.49	12.49	12.62	0.018370	1.36	23.40	87.68	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	0.007728	1.15	25.06	95.12	0.59
asta	1320	tr 100	32.36	11.65	12.17	12.08	12.24	0.008307	1.27	28.98	109.72	0.62
asta	1320	tr 200	37.67	11.65	12.20	12.12	12.27	0.008465	1.33	31.95	115.86	0.63
asta	1320	tr 500	44.86	11.65	12.23	12.16	12.31	0.008623	1.41	35.87	122.56	0.65
asta	1300	tr 50	27.15	11.33	11.88	11.88	11.97	0.017202	1.67	20.22	109.54	0.87
asta	1300	tr 100	32.36	11.33	11.91	11.91	12.00	0.016686	1.73	23.61	122.53	0.86
asta	1300	tr 200	37.67	11.33	11.93	11.93	12.04	0.016978	1.81	26.67	128.25	0.88
asta	1300	tr 500	44.86	11.33	11.96	11.96	12.07	0.017145	1.89	30.13	135.76	0.89
asta	1280	tr 50	27.15	11.21	11.52	11.50	11.58	0.015647	1.19	23.68	130.41	0.78
asta	1280	tr 100	32.36	11.21	11.54	11.52	11.62	0.014432	1.23	27.01	131.15	0.76
asta	1280	tr 200	37.67	11.21	11.56	11.54	11.65	0.014012	1.27	29.90	131.77	0.76
asta	1280	tr 500	44.86	11.21	11.59	11.57	11.68	0.013210	1.32	33.87	132.65	0.75
asta	1260	tr 50	27.15	10.94	11.24	11.21	11.31	0.011990	1.31	22.77	112.69	0.80
asta	1260	tr 100	32.36	10.94	11.26	11.24	11.34	0.012855	1.43	25.19	116.71	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	0.013793	1.66	32.00	126.69	0.90
asta	1240	tr 50	27.15	10.61	10.90	10.90	10.99	0.021919	1.46	20.55	120.50	1.03
asta	1240	tr 100	32.36	10.61	10.93	10.93	11.02	0.019829	1.50	23.83	125.81	1.00
asta	1240	tr 200	37.67	10.61	10.95	10.95	11.05	0.019433	1.57	26.48	130.37	1.00
asta	1240	tr 500	44.86	10.61	10.98	10.98	11.09	0.018876	1.66	30.07	137.99	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	0.004804	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	0.005150	0.96	41.82	146.03	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	0.009371	1.48	30.22	174.26	0.75
asta	1195.076	tr 100	32.36	10.15	10.64		10.69	0.009571	1.56	34.31	178.74	0.77
asta	1195.076	tr 200	37.67	10.15	10.67		10.72	0.009215	1.58	38.43	183.08	0.76
asta	1195.076	tr 500	44.86	10.15	10.70		10.75	0.008680	1.61	44.25	191.28	0.75
asta	1180	tr 50	27.15	10.00	10.41	10.41	10.49	0.014117	1.49	22.87	128.84	0.88
asta	1180	tr 100	32.36	10.00	10.44	10.44	10.52	0.013173	1.55	27.52	138.19	0.86
asta	1180	tr 200	37.67	10.00	10.46	10.45	10.55	0.013857	1.65	29.93	139.08	0.89
asta	1180	tr 500	44.86	10.00	10.48	10.48	10.58	0.014493	1.76	33.03	140.02	0.92
asta	1160	tr 50	27.15	9.42	10.11	10.08	10.21	0.010573	1.68	20.84	86.98	0.79
asta	1160	tr 100	32.36	9.42	10.14	10.13	10.25	0.011070	1.79	23.57	92.26	0.82
asta	1160	tr 200	37.67	9.42	10.17	10.16	10.29	0.011622	1.90	26.04	94.36	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	0.014402	1.61	17.36	72.61	0.89
asta	1140	tr 100	32.36	9.36	9.87	9.87	10.01	0.013294	1.68	20.88	86.71	0.87
asta	1140	tr 200	37.67	9.36	9.91	9.91	10.05	0.012424	1.74	24.71	95.59	0.86
asta	1140	tr 500	44.86	9.36	9.94	9.95	10.10	0.013454	1.88	27.34	97.62	0.90
asta	1120	tr 50	27.15	9.26	9.53	9.54	9.66	0.015436	1.31	17.63	79.13	0.88
asta	1120	tr 100	32.36	9.26	9.55	9.58	9.71	0.016713	1.46	19.60	84.23	0.93
asta	1120	tr 200	37.67	9.26	9.58	9.61	9.75	0.017390	1.59	21.76	86.74	0.97
asta	1120	tr 500	44.86	9.26	9.62	9.65	9.80	0.016422	1.69	25.33	89.32	0.96
asta	1100	tr 50	27.15	8.49	9.25	9.26	9.38	0.013044	2.23	19.02	78.93	0.94
asta	1100	tr 100	32.36	8.49	9.29	9.30	9.42	0.011808	2.22	22.52	84.14	0.91
asta	1100	tr 200	37.67	8.49	9.33	9.33	9.46	0.011096	2.24	25.71	88.84	0.89
asta	1100	tr 500	44.86	8.49	9.36	9.36	9.51	0.011911	2.40	28.50	92.73	0.93
asta	1080	tr 50	27.15	8.79	8.94	8.87	9.03	0.009449	0.56	20.18	64.99	0.59
asta	1080	tr 100	32.36	8.79	8.97	8.91	9.08	0.009947	0.71	22.40	68.66	0.64
asta	1080	tr 200	37.67	8.79	9.01	8.95	9.12	0.010017	0.85	25.21	76.01	0.67
asta	1080	tr 500	44.86	8.79	8.95	8.99	9.18	0.022684	0.96	21.11	66.61	0.94
asta	1060	tr 50	27.15	8.48	8.67	8.67	8.79	0.014379	0.72	17.75	71.96	0.74
asta	1060	tr 100	32.36	8.48	8.71	8.71	8.84	0.014239	0.91	20.94	78.09	0.78
asta	1060	tr 200	37.67	8.48	8.74	8.74	8.88	0.014801	1.04	23.07	82.16	0.82
asta	1060	tr 500	44.86	8.48	8.78	8.78	8.93	0.014637	1.19	26.40	90.19	0.85
asta	1040	tr 50	27.15	7.81	8.52	8.44	8.59	0.006565	1.45	25.55	88.57	0.65
asta	1040	tr 100	32.36	7.81	8.56	8.47	8.63	0.006527	1.52	28.95	93.22	0.66
asta	1040	tr 200	37.67	7.81	8.60		8.67	0.006657	1.60	32.23	96.93	0.67
asta	1040	tr 500	44.86	7.81	8.63	8.54	8.72	0.006788	1.68	35.93	98.88	0.69
asta	1020	tr 50	27.15	7.57	8.30	8.29	8.40	0.012958	2.15	20.70	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	0.013449	2.27	23.37	92.87	0.95
asta	1020	tr 200	37.67	7.57	8.36	8.35	8.48	0.013655	2.36	25.91	96.08	0.97
asta	1020	tr 500	44.86	7.57	8.39	8.39	8.53	0.013788	2.45	29.09	98.37	0.98
asta	1000	tr 50	27.15	7.43	8.07	8.02	8.15	0.012031	1.83	22.42	100.94	0.86
asta	1000	tr 100	32.36	7.43	8.09	8.07	8.19	0.011988	1.90	25.24	102.50	0.86
asta	1000	tr 200	37.67	7.43	8.12	8.10	8.22	0.011928	1.96	27.99	104.33	0.87
asta	1000	tr 500	44.86	7.43	8.16	8.13	8.26	0.011849	2.04	31.62	107.28	0.88
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	0.002974	1.04	44.77	144.36	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	0.003152	1.15	54.31	148.89	0.47
asta	940	tr 50	27.15	7.16	7.71	7.71	7.80	0.013743	2.10	22.55	117.22	0.95
asta	940	tr 100	32.36	7.16	7.73	7.73	7.83	0.015158	2.26	24.86	118.91	1.00
asta	940	tr 200	37.67	7.16	7.75	7.75	7.86	0.015617	2.36	27.30	120.76	1.03
asta	940	tr 500	44.86	7.16	7.79	7.79	7.90	0.014275	2.35	31.74	124.32	0.99
asta	920	tr 50	27.15	7.03	7.45	7.39	7.51	0.009470	1.46	25.49	111.17	0.75
asta	920	tr 100	32.36	7.03	7.48	7.42	7.55	0.009411	1.54	29.71	121.58	0.76
asta	920	tr 200	37.67	7.03	7.51	7.45	7.58	0.009200	1.59	32.90	122.62	0.76
asta	920	tr 500	44.86	7.03	7.54	7.48	7.62	0.008877	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	0.005423	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	0.004491	1.14	47.94	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	0.42
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	0.001007	0.52	54.46	136.99	0.25
asta	839.9999	tr 100	32.36	6.65	7.26		7.27	0.001021	0.56	60.88	151.09	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	170.35	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	0.001145	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	66.75	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	0.002266	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	138.21	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	0.000969	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	131.62	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	59.08	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	0.002963	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	0.002975	1.40	50.67	120.51	0.48
asta	720.0001	tr 50	27.15	6.16	6.99		7.02	0.002950	1.15	34.97	102.13	0.46
asta	720.0001	tr 100	32.36	6.16	7.02		7.06	0.003053	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	104.76	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	0.005612	1.62	31.96	106.01	0.63
asta	700.0001	tr 200	37.67	5.92	6.95		7.02	0.005341	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	0.003219	1.02	34.26	102.37	0.46
asta	680.0001	tr 100	32.36	6.28	6.85		6.89	0.003228	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	109.54	0.48
asta	660	tr 50	27.15	5.74	6.73		6.77	0.003967	1.30	31.14	96.20	0.52
asta	660	tr 100	32.36	5.74	6.77		6.81	0.004110	1.37	34.75	100.46	0.53
asta	660	tr 200	37.67	5.74	6.80		6.85	0.004290	1.45	38.28	104.39	0.55
asta	660	tr 500	44.86	5.74	6.84		6.90	0.004320	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	0.005658	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	0.006328	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	94.40	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	0.005479	1.18	26.38	79.79	0.58
asta	560	tr 100	32.36	5.64	6.21		6.27	0.005618	1.27	29.93	84.83	0.60
asta	560	tr 200	37.67	5.64	6.26		6.32	0.005144	1.29	33.89	91.76	0.58
asta	560	tr 500	44.86	5.64	6.30		6.37	0.005145	1.37	38.21	101.15	0.59
asta	540	tr 50	27.15	5.28	6.12		6.15	0.002385	1.12	35.25	92.72	0.42
asta	540	tr 100	32.36	5.28	6.16		6.19	0.002503	1.19	39.01	96.03	0.44
asta	540	tr 200	37.67	5.28	6.20		6.24	0.002860	1.32	43.10	104.33	0.47
asta	540	tr 500	44.86	5.28	6.24		6.29	0.002940	1.39	47.78	105.50	0.48
asta	520	tr 50	27.15	5.06	5.97		6.06	0.007457	1.73	23.48	87.23	0.72
asta	520	tr 100	32.36	5.06	6.01		6.11	0.007379	1.79	26.93	90.96	0.72
asta	520	tr 200	37.67	5.06	6.05		6.15	0.007149	1.83	30.36	93.37	0.72
asta	520	tr 500	44.86	5.06	6.09		6.20	0.007026	1.89	34.44	95.00	0.72
asta	500	tr 50	27.15	5.41	5.94		5.97	0.002489	0.89	39.42	123.98	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	49.38	131.12	0.41
asta	500	tr 500	44.86	5.41	6.06		6.10	0.002455	1.02	55.52	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	0.003990	1.68	36.21	116.49	0.55
asta	480	tr 200	37.67	4.70	5.93		5.99	0.003687	1.67	41.38	119.48	0.53
asta	480	tr 500	44.86	4.70	5.98		6.04	0.003372	1.65	47.85	120.93	0.52
asta	460	tr 50	27.15	4.41	5.79		5.83	0.002601	1.27	38.08	126.16	0.43
asta	460	tr 100	32.36	4.41	5.84		5.88	0.002381	1.26	44.32	128.94	0.42
asta	460	tr 200	37.67	4.41	5.89		5.92	0.002184	1.25	50.55	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	0.001866	1.30	42.10	124.61	0.39
asta	440	tr 100	32.36	4.41	5.80		5.83	0.001768	1.30	48.63	129.09	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	0.001587	1.31	63.29	136.83	0.37
asta	420	tr 50	27.15	4.10	5.72		5.75	0.001336	1.18	43.29	108.04	0.33
asta	420	tr 100	32.36	4.10	5.77		5.80	0.001386	1.23	48.74	109.87	0.34
asta	420	tr 200	37.67	4.10	5.82		5.85	0.001386	1.26	54.26	112.68	0.34
asta	420	tr 500	44.86	4.10	5.88		5.91	0.001415	1.31	60.81	115.33	0.35
asta	400.0001	tr 50	27.15	4.10	5.69		5.72	0.001755	1.17	38.62	98.83	0.37
asta	400.0001	tr 100	32.36	4.10	5.73		5.77	0.001849	1.23	43.39	103.43	0.38
asta	400.0001	tr 200	37.67	4.10	5.78		5.82	0.001803	1.26	48.63	105.35	0.38
asta	400.0001	tr 500	44.86	4.10	5.84		5.88	0.001832	1.31	54.61	107.62	0.39
asta	380	tr 50	27.15	3.94	5.59		5.67	0.003526	1.73	27.56	82.56	0.53
asta	380	tr 100	32.36	3.94	5.63		5.72	0.003527	1.78	31.60	87.84	0.53
asta	380	tr 200	37.67	3.94	5.68		5.77	0.003539	1.83	36.21	92.69	0.54
asta	380	tr 500	44.86	3.94	5.75		5.83	0.003290	1.83	42.25	97.13	0.52
asta	360	tr 50	27.15	3.86	5.42	5.42	5.57	0.006417	2.23	20.80	61.83	0.70
asta	360	tr 100	32.36	3.86	5.48	5.46	5.62	0.006028	2.24	24.51	65.08	0.69

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	0.006526	2.38	26.72	66.74	0.72
asta	360	tr 500	44.86	3.86	5.57	5.55	5.73	0.006575	2.47	30.79	71.95	0.73
asta	340	tr 50	27.15	3.83	5.30	5.28	5.43	0.006180	2.17	21.10	58.89	0.69
asta	340	tr 100	32.36	3.83	5.31	5.31	5.48	0.007823	2.46	22.05	59.58	0.78
asta	340	tr 200	37.67	3.83	5.37	5.36	5.53	0.007206	2.45	25.57	62.62	0.75
asta	340	tr 500	44.86	3.83	5.46		5.60	0.006090	2.37	30.98	66.32	0.70
asta	320.0001	tr 50	27.15	3.51	5.09	5.09	5.30	0.006123	2.59	17.75	41.64	0.72
asta	320.0001	tr 100	32.36	3.51	5.18	5.19	5.35	0.005349	2.52	23.34	58.03	0.68
asta	320.0001	tr 200	37.67	3.51	5.23	5.23	5.40	0.005426	2.60	26.27	61.47	0.69
asta	320.0001	tr 500	44.86	3.51	5.27	5.27	5.47	0.006219	2.84	28.76	65.02	0.74
asta	300	tr 50	27.15	3.99	4.68	4.80	5.05	0.028224	3.44	11.38	44.06	1.41
asta	300	tr 100	32.36	3.99	4.72	4.86	5.12	0.028389	3.61	13.46	51.07	1.43
asta	300	tr 200	37.67	3.99	4.76	4.87	5.17	0.027999	3.71	15.30	53.03	1.43
asta	300	tr 500	44.86	3.99	4.81	4.95	5.22	0.026758	3.79	17.87	55.68	1.42
asta	280	tr 50	27.15	3.36	4.43	4.47	4.65	0.012038	2.63	15.09	40.39	0.95
asta	280	tr 100	32.36	3.36	4.50	4.49	4.72	0.011345	2.70	17.90	45.51	0.93
asta	280	tr 200	37.67	3.36	4.54	4.56	4.78	0.011602	2.82	19.87	47.48	0.95
asta	280	tr 500	44.86	3.36	4.63	4.65	4.86	0.010017	2.79	24.89	57.66	0.90
asta	260.0001	tr 50	27.15	3.21	4.28	4.26	4.43	0.010203	2.30	17.19	46.93	0.86
asta	260.0001	tr 100	32.36	3.21	4.34		4.50	0.009570	2.34	20.02	49.52	0.84
asta	260.0001	tr 200	37.67	3.21	4.38		4.55	0.009529	2.42	22.24	50.63	0.85
asta	260.0001	tr 500	44.86	3.21	4.44	4.41	4.62	0.009502	2.53	25.14	52.29	0.86
asta	239.9999	tr 50	27.15	3.00	4.14		4.25	0.007165	2.02	19.70	49.32	0.72
asta	239.9999	tr 100	32.36	3.00	4.18		4.31	0.007765	2.19	22.18	54.12	0.76
asta	239.9999	tr 200	37.67	3.00	4.23		4.37	0.007968	2.29	24.51	56.04	0.78
asta	239.9999	tr 500	44.86	3.00	4.28		4.44	0.008067	2.40	27.79	59.35	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	0.002907	1.56	43.13	79.79	0.49
asta	200	tr 50	27.15	2.78	4.08		4.11	0.001200	0.99	42.29	86.52	0.31
asta	200	tr 100	32.36	2.78	4.13		4.16	0.001250	1.05	46.90	87.61	0.32
asta	200	tr 200	37.67	2.78	4.18		4.21	0.001325	1.11	50.88	90.33	0.33
asta	200	tr 500	44.86	2.78	4.24		4.27	0.001398	1.17	56.22	93.11	0.34
asta	193.8233	tr 50	27.15	3.15	4.08		4.10	0.001088	0.71	43.47	87.50	0.28
asta	193.8233	tr 100	32.36	3.15	4.13		4.15	0.001303	0.82	48.31	96.67	0.31
asta	193.8233	tr 200	37.67	3.15	4.17		4.20	0.001373	0.87	52.67	98.52	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	67.85	109.44	0.28
asta	170.8809	tr 50	27.15	3.53	3.99		4.06	0.007756	1.37	23.92	82.25	0.69
asta	170.8809	tr 100	32.36	3.53	4.03		4.11	0.007330	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	0.017102	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	0.015213	1.13	36.15	81.92	0.39
asta	149.0477	tr 100	32.36	2.78	3.76		3.79	0.014905	1.17	40.92	83.40	0.39
asta	149.0477	tr 200	37.67	2.78	3.82		3.86	0.014265	1.19	46.01	87.84	0.38
asta	149.0477	tr 500	44.86	2.78	3.90		3.94	0.013762	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	0.017607	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	31.12	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	0.020473	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	0.007652	0.72	43.83	74.88	0.27
asta	80.00003	tr 100	32.36	2.11	2.93		2.95	0.007818	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	0.008686	0.89	57.70	79.25	0.29
asta	59.99999	tr 50	27.15	1.66	2.59		2.64	0.024011	1.41	29.97	85.84	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	0.021965	1.52	45.35	91.05	0.48
asta	39.99999	tr 50	27.15	1.32	2.10		2.16	0.023860	1.27	26.85	53.33	0.47
asta	39.99999	tr 100	32.36	1.32	2.17		2.23	0.022640	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	0.020034	1.39	39.54	56.74	0.45
asta	20.00003	tr 50	27.15	1.10	1.78		1.81	0.012436	0.84	38.68	84.39	0.33
asta	20.00003	tr 100	32.36	1.10	1.78		1.82	0.018481	1.01	38.07	83.56	0.40
asta	20.00003	tr 200	37.67	1.10	1.77		1.82	0.026658	1.20	37.23	82.45	0.48
asta	20.00003	tr 500	44.86	1.10	1.75		1.83	0.042453	1.49	35.74	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

COMUNE DI ALGHERO

VARIANTE AL PAI, ex art. 37 comma 3 delle NTA del PAI a seguito di Studio di Assetto idraulico e geologico del territorio comunale ai sensi dell'art.8 comma 2 delle N.A. del PAI

Area di indagine: **TERRITORIO COMUNALE**

SIMULAZIONI IN MOTO PERMANENTE

Modello 2 – Gruppo Canale Urune

Aste torrentizie studiate:

asta 78574

Fiume 74342

Canale di bonifica

Canale Su Incontru

Canale Urune

- Schema planimetrico del modello matematico;
- Profili longitudinali con livelli idrici per i tempi di ritorno 50, 100, 200 e 500 anni;
- Sezioni trasversali con livelli idrici per i tempi di ritorno 50, 100, 200 e 500 anni;
- Tabulati numerici di output per i tempi di ritorno 50, 100, 200 e 500 anni;

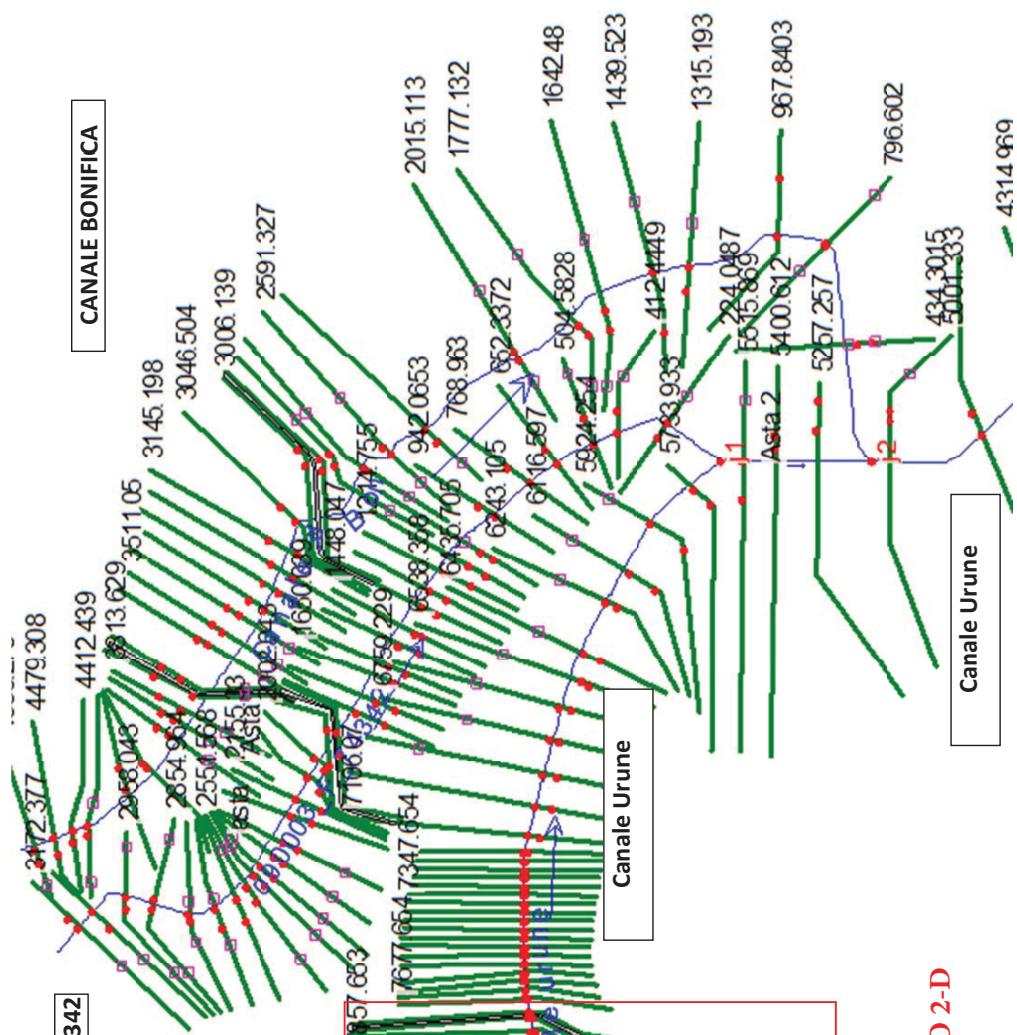
River	Reach	RS	PORTATE mc/s			
			tr 50	tr 100	tr 200	tr 500
090003_78574	asta	1680	4.477	5.109	5.749	6.636
090003_78574	asta	1050	9.755	11.206	12.669	14.675
090003_78574	asta	840.0001	25.533	29.995	34.494	40.53
090003_FIUME_743	Asta	3172.377	55.555	65.926	76.378	90.277
Can di Bonifica	Asta	4556.279	17.062	20.456	23.914	28.604
Can di Bonifica	Asta	2433.408	21.779	26.16	30.604	36.55
Canale su Inc	Asta	1,780	21	25	29	35
Canale urune	71849	9,958	14	17	19	22
Canale urune	71849	840	26	29.995	34	40.53
Canale urune	Asta 1	8,848	42	49	57	67
Canale urune	Asta 1	8,308	78	92	106	125
Canale urune	Asta 1	7,678	81	97.293	114	136
Canale urune	Asta 2	5,516	137	163	190	225.953
Canale urune	Asta 3	5,001	185	220	255	302
Canale urune	Asta 4	2,298	194	230	267	315
Canale urune	Asta 4	1025.208	208.612	247.962	287.631	340.385

River	Reach	PROFILI	condizioni al contorno	
			upstream	downstream
090003_78574	asta	all	Critical Depth	Junction=2
090003_FIUME_743	Asta	all	Critical Depth	
Can di Bonifica	asta	all	Critical Depth	Junction=j2
Canale su Inc	Asta	all	Critical Depth	Junction=j3
Canale urune	71849	all	Critical Depth	Junction=2
Canale urune	Asta 1	all	Junction=2	Junction=j1
Canale urune	Asta 2	all	Junction=j1	Junction=j2
Canale urune	Asta 3	all	Junction=j2	Junction=j3
Canale urune	Asta 4	all	Junction=j3	Normal Depth S = 0.001

DETTAGLIO 1

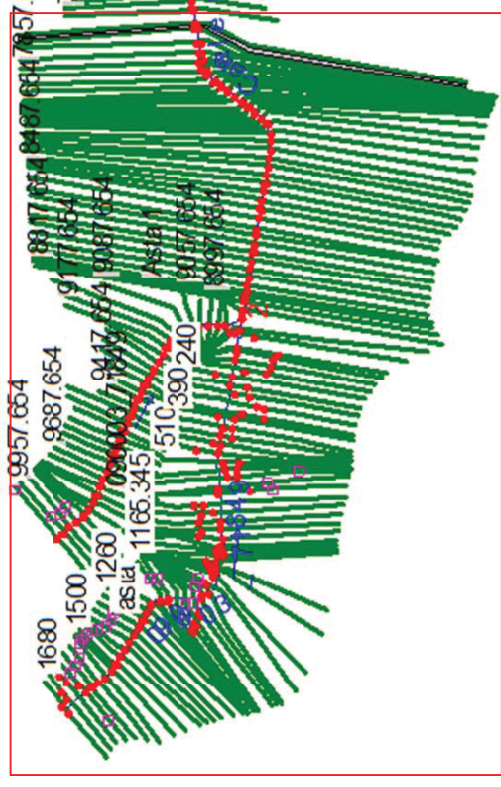
090003_FIUME_74342

CANALE BONIFICA



090003_71849

090003_78574



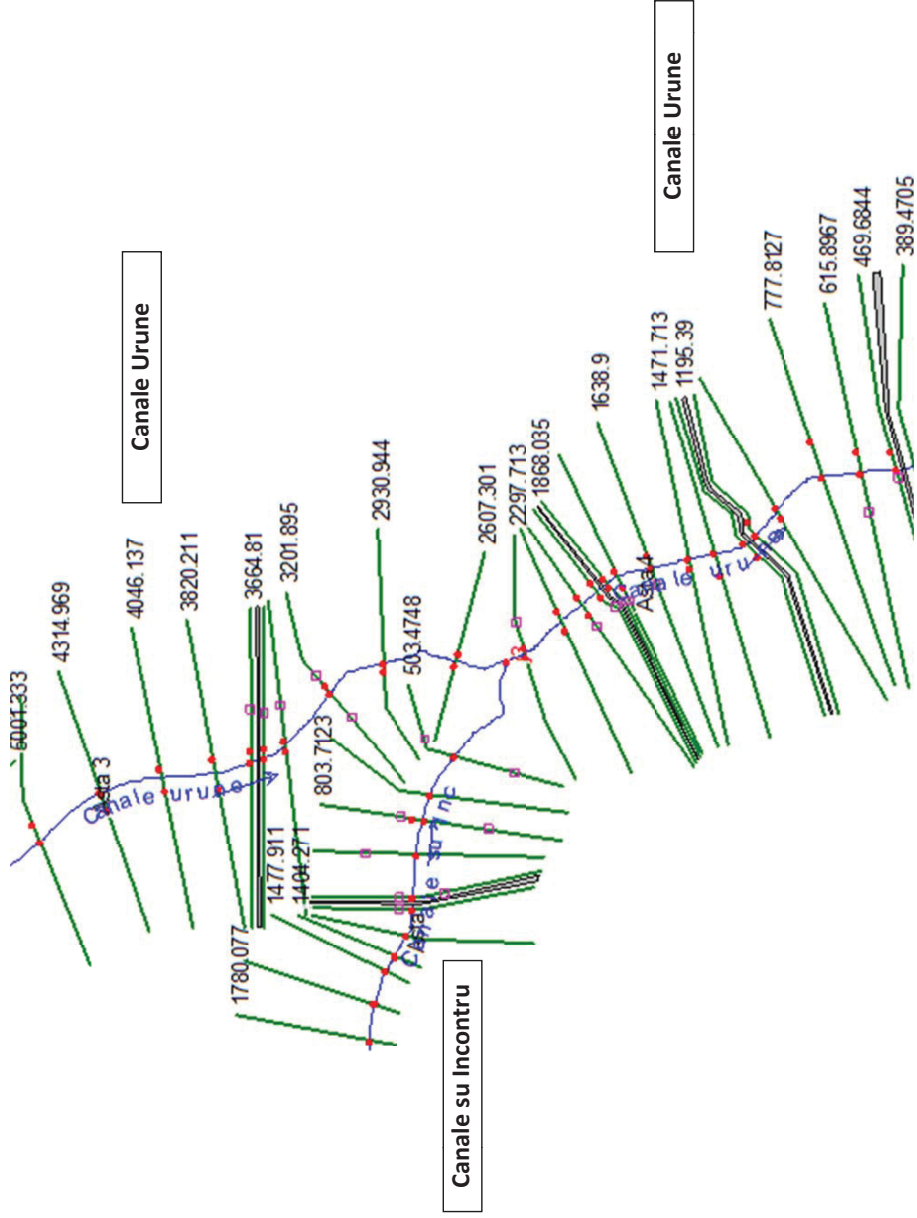
SETTORE STUDIATO ANCHE CON MODELLO 2-D



Canale Urune

Canale Urune

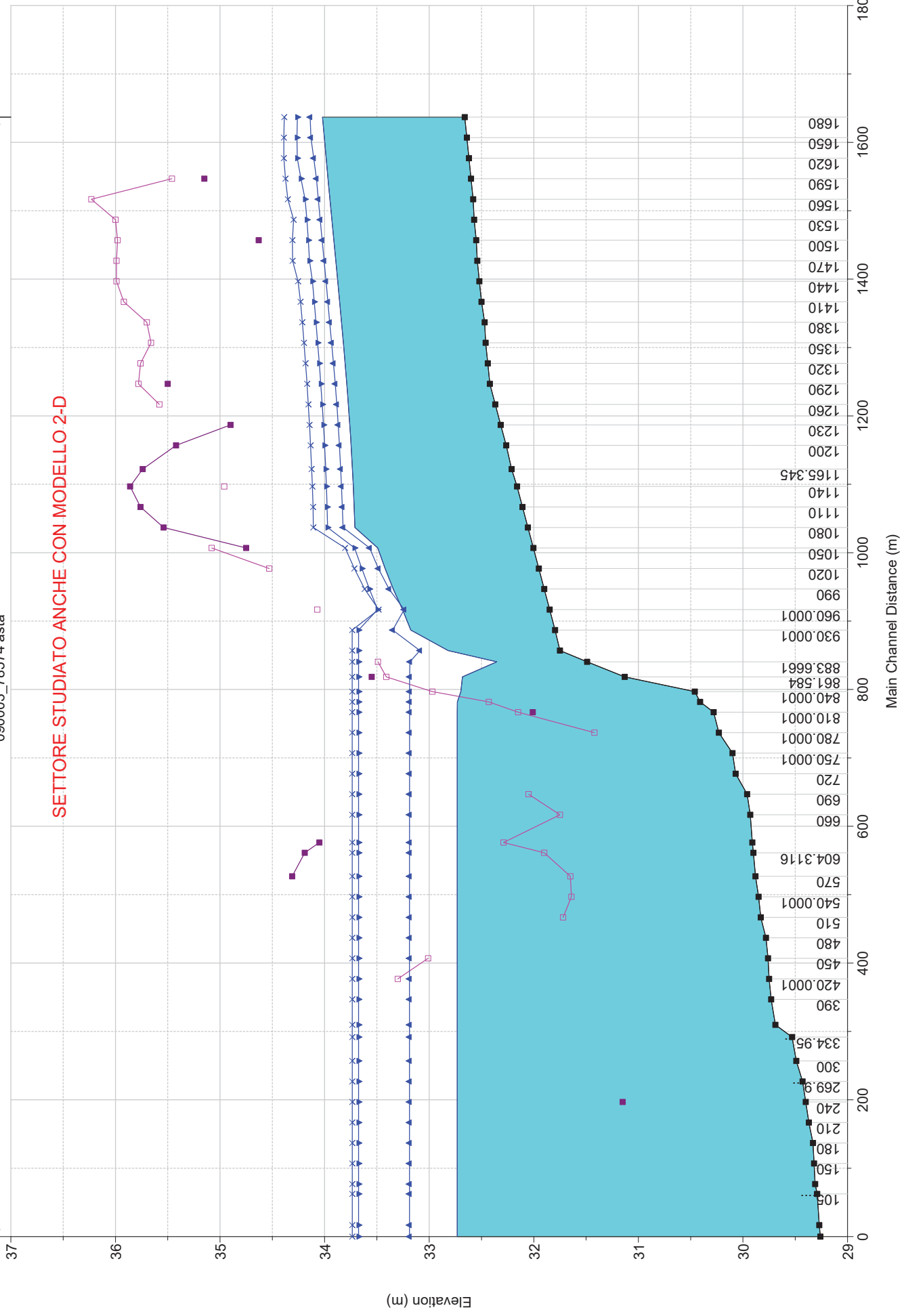
DETTAGLIO 2



090003_78574 asta

SETTORE STUDIATO ANCHE CON MODELLO 2-D

Legend	
WS tr 500	x
WS tr 200	▲
WS tr 100	▼
WS tr 50	■
Ground	■
Left Levee	□
Right Levee	■



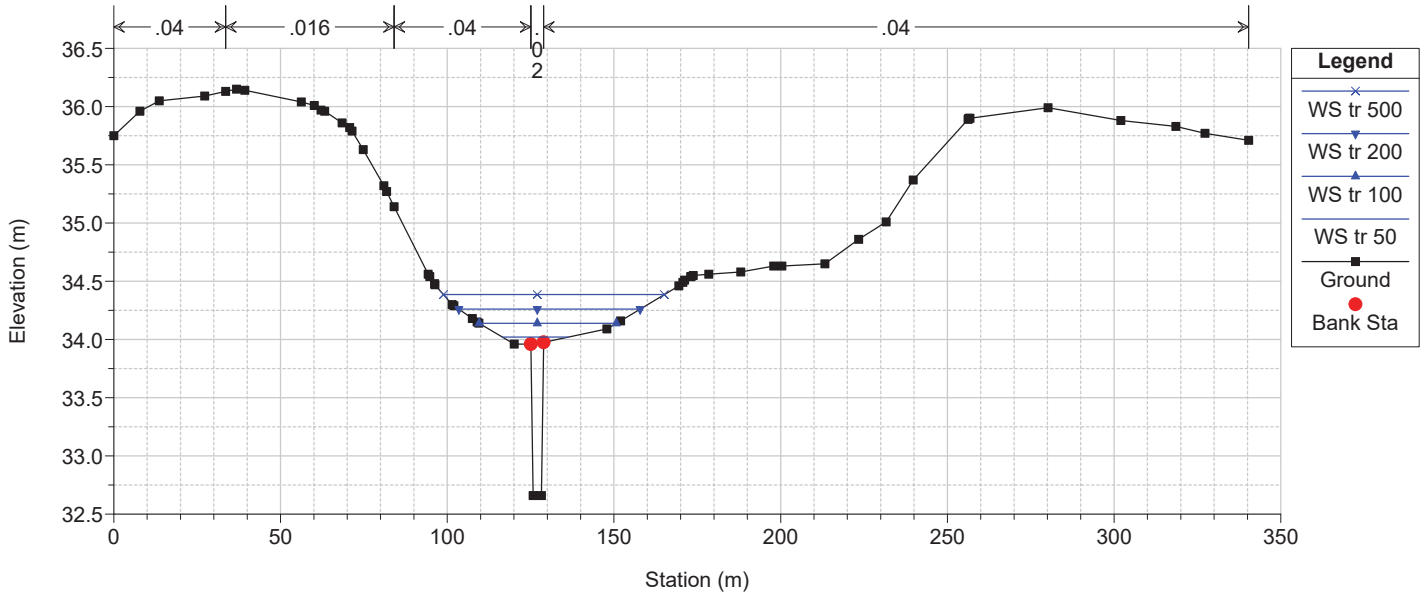
Elevation (m)

Main Channel Distance (m)

urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

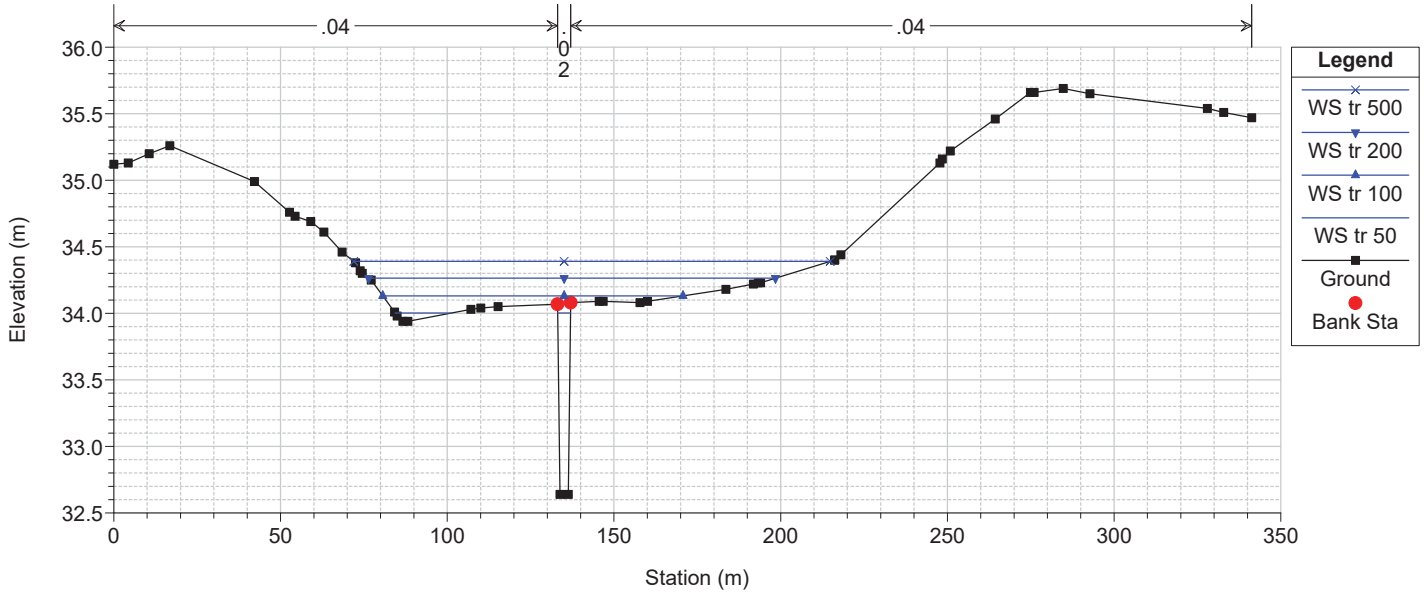
River = 090003_78574 Reach = asta RS = 1680 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

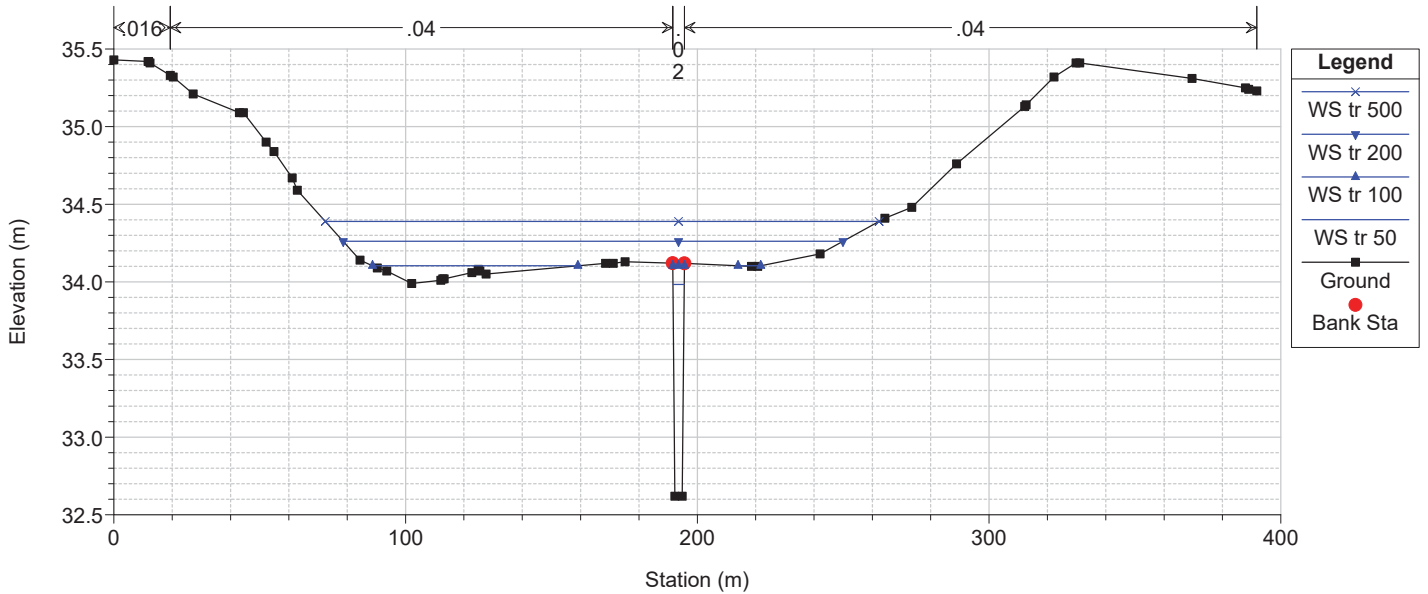
River = 090003_78574 Reach = asta RS = 1650 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

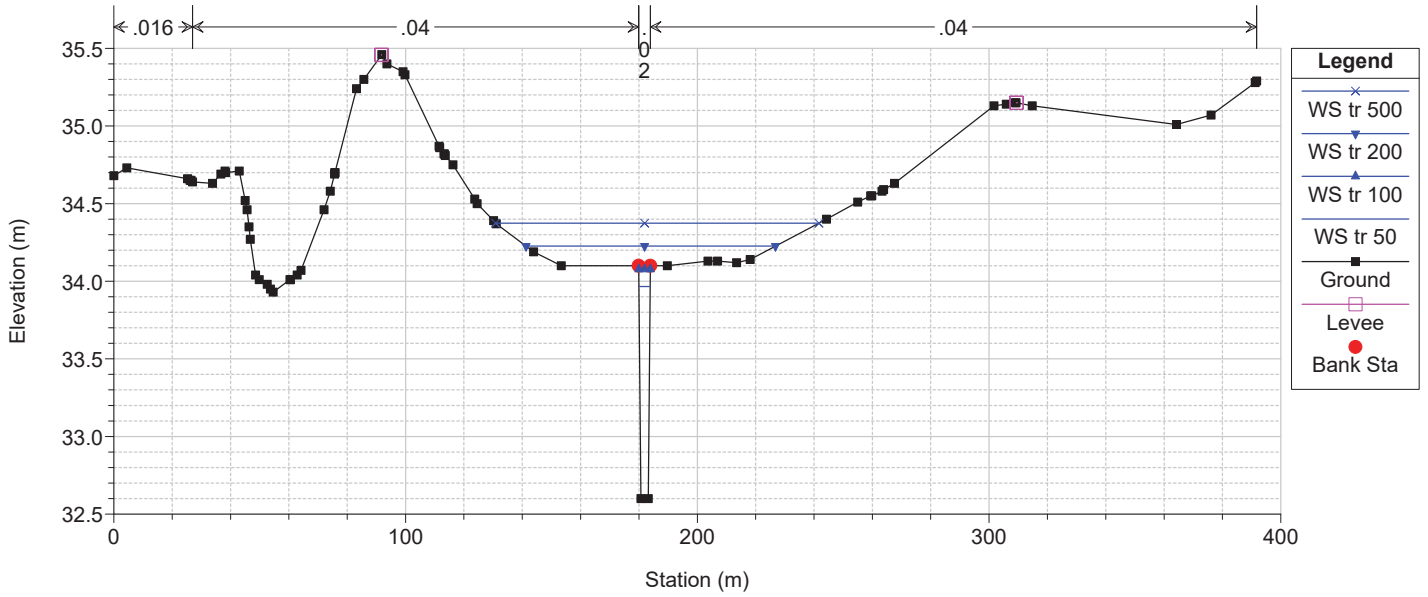
River = 090003_78574 Reach = asta RS = 1620 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

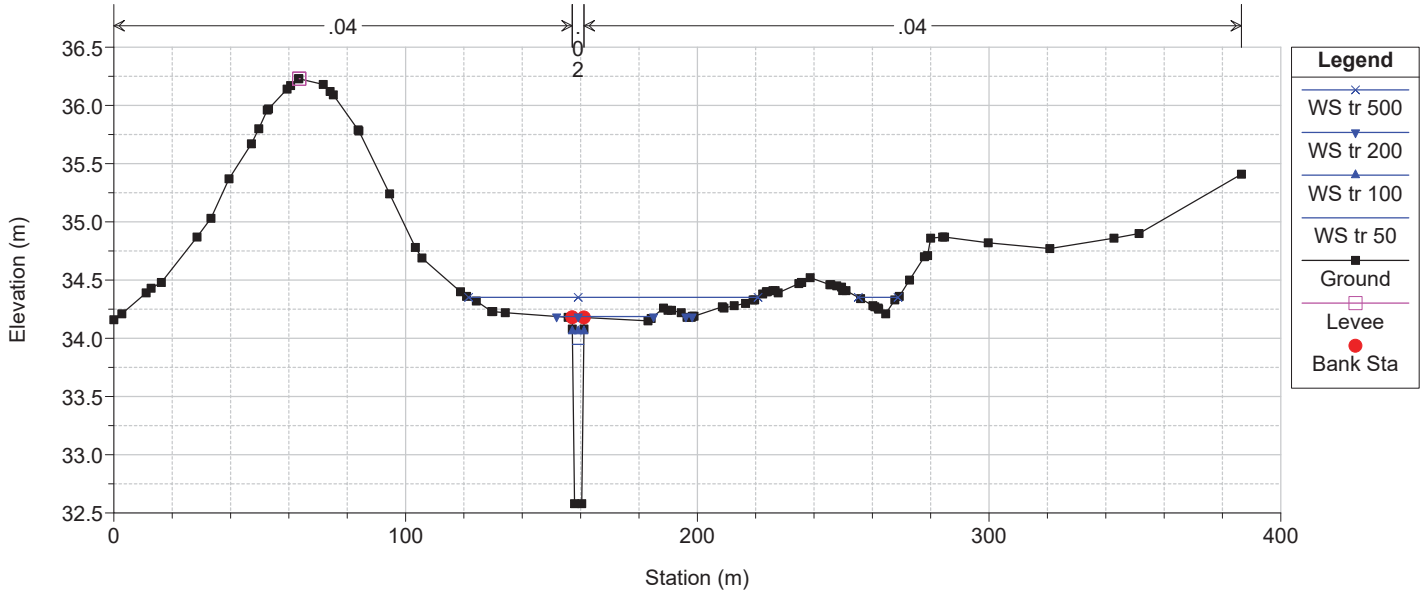
River = 090003_78574 Reach = asta RS = 1590 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

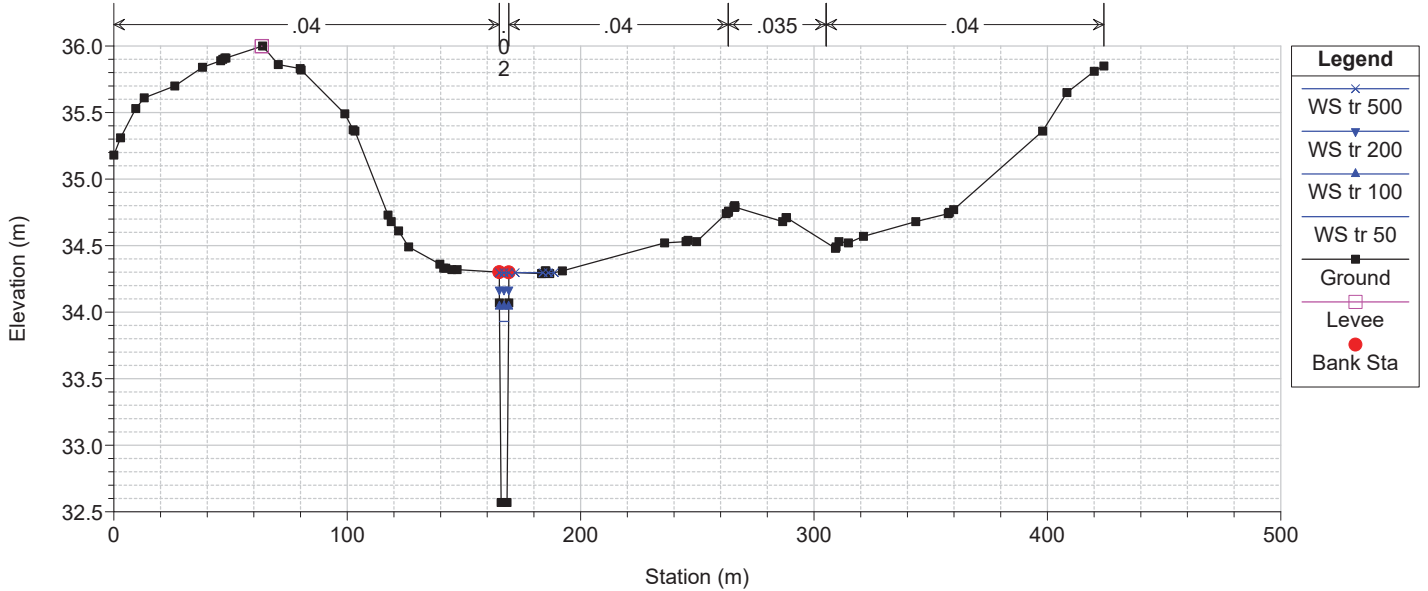
River = 090003_78574 Reach = asta RS = 1560 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

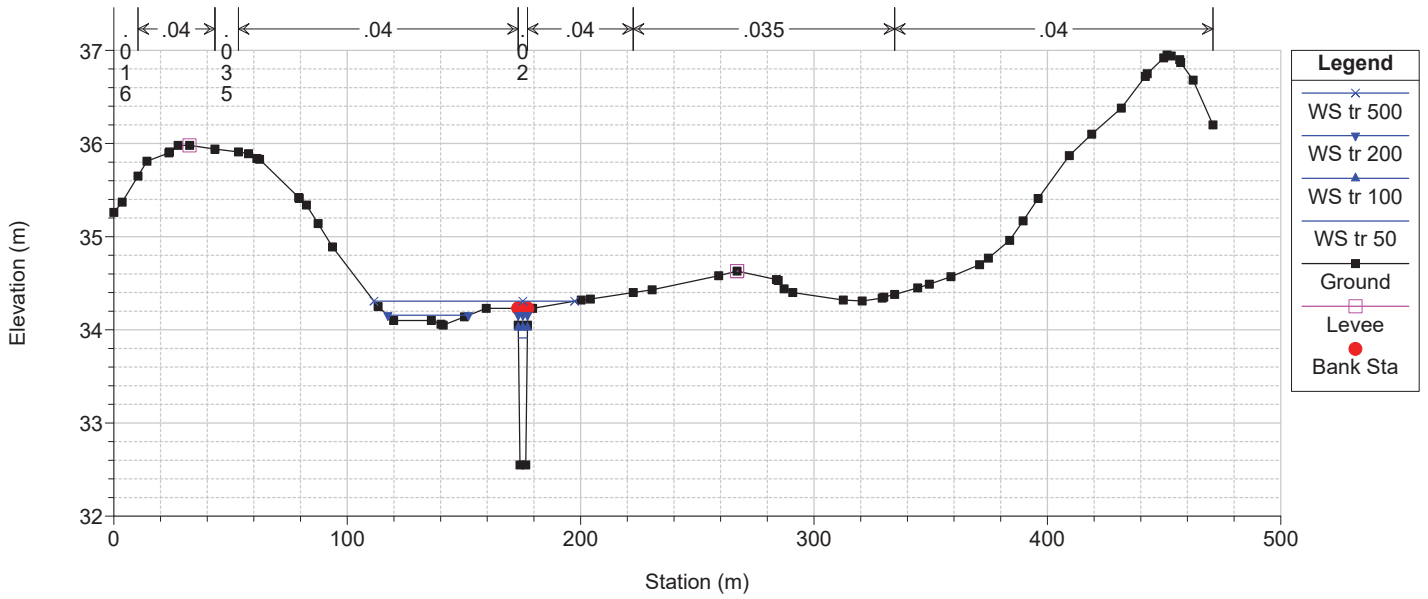
River = 090003_78574 Reach = asta RS = 1530 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

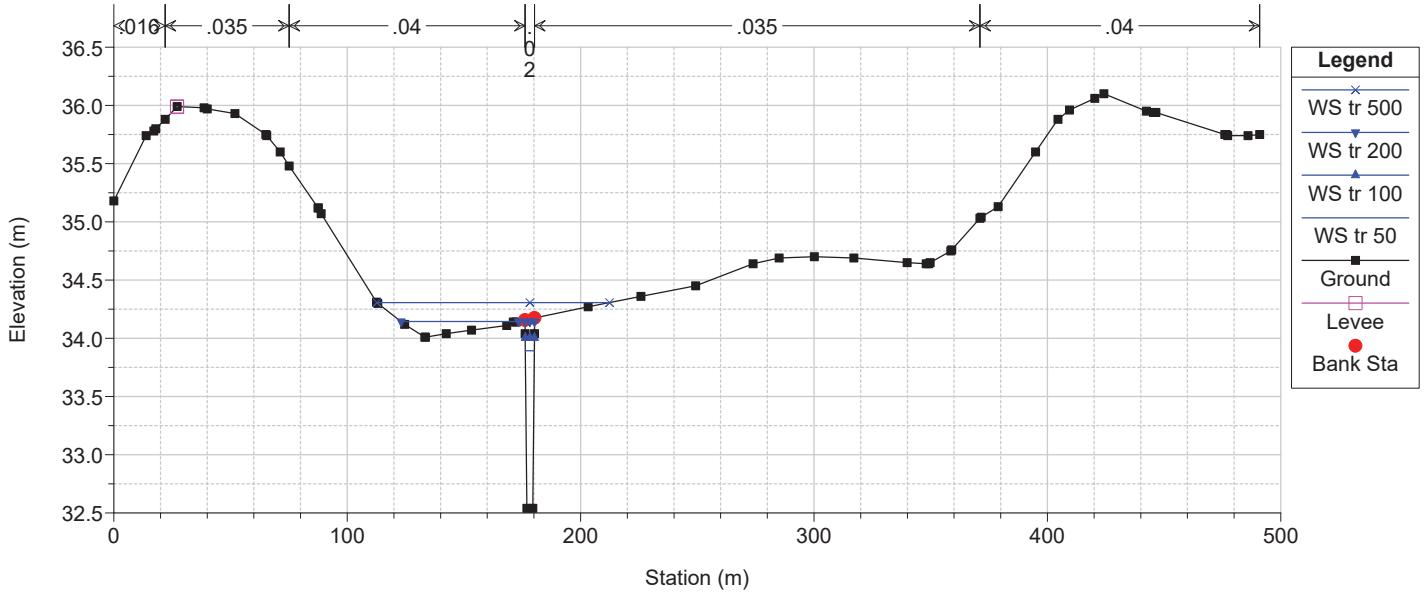
River = 090003_78574 Reach = asta RS = 1500 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

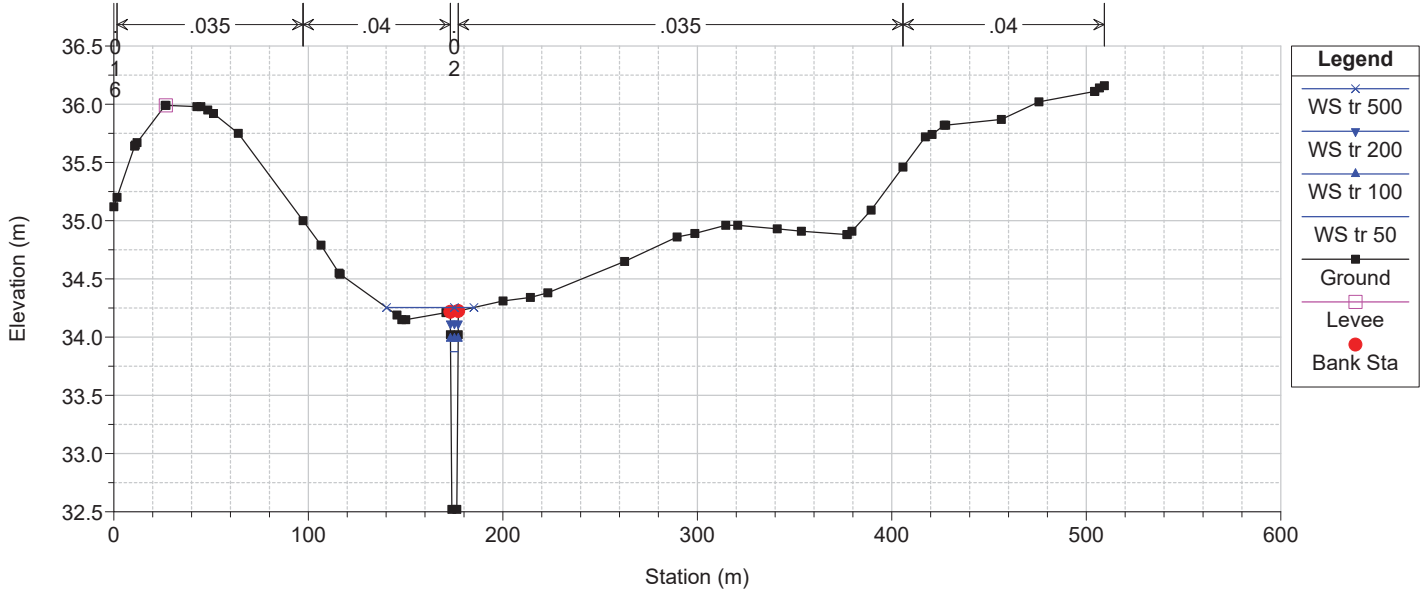
River = 090003_78574 Reach = asta RS = 1470 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

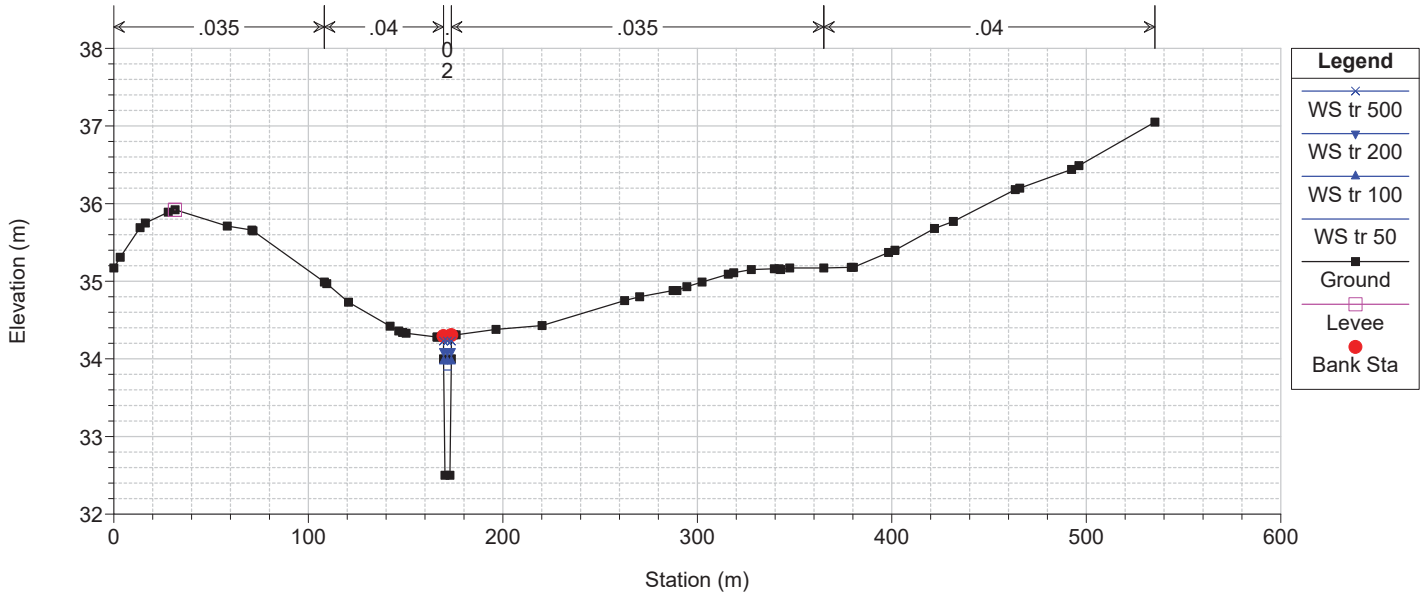
River = 090003_78574 Reach = asta RS = 1440 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

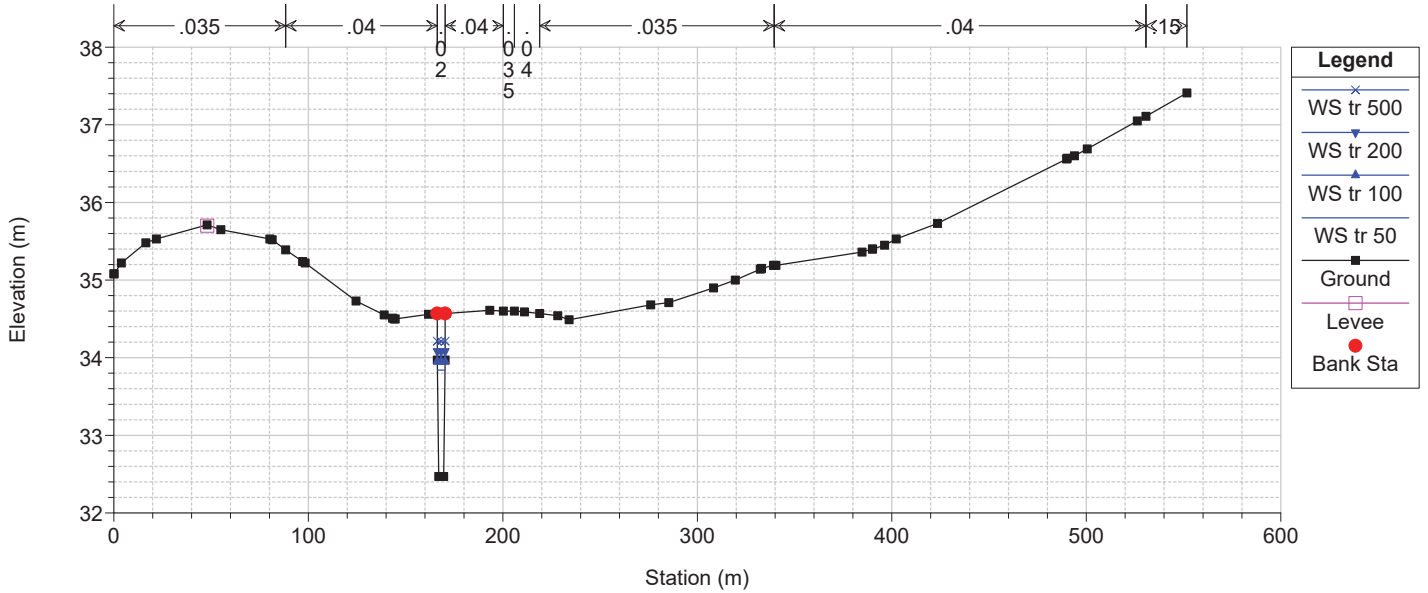
River = 090003_78574 Reach = asta RS = 1410 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

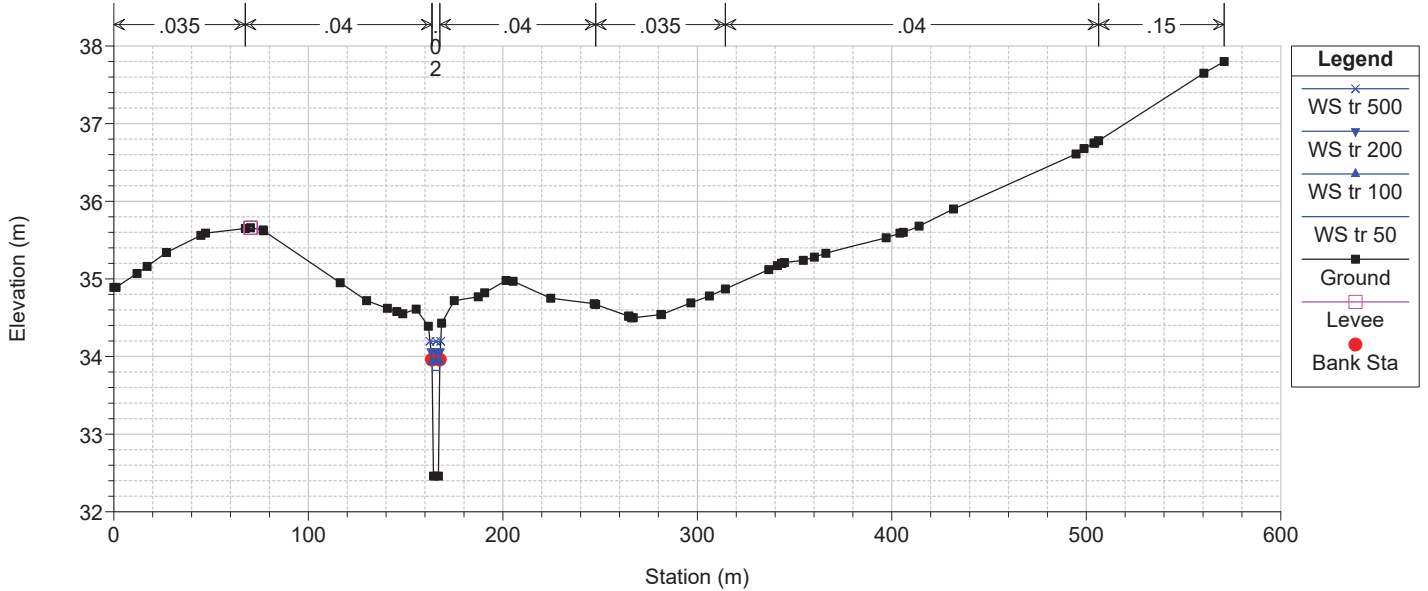
River = 090003_78574 Reach = asta RS = 1380 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

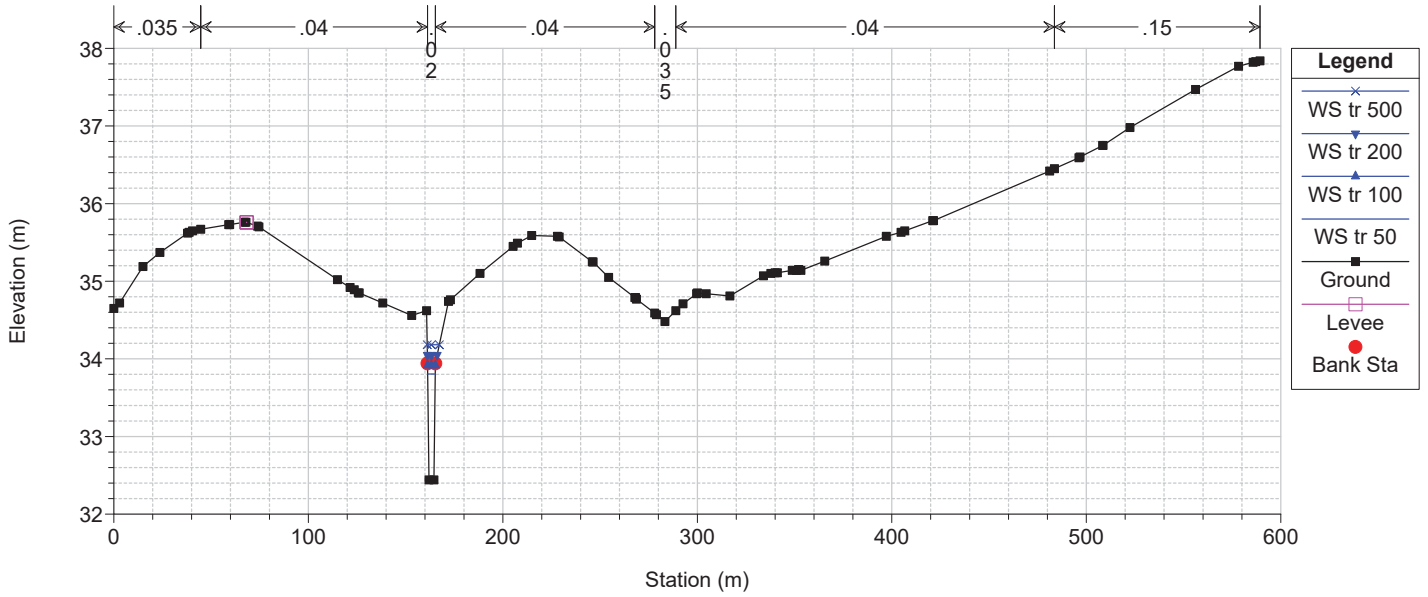
River = 090003_78574 Reach = asta RS = 1350 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

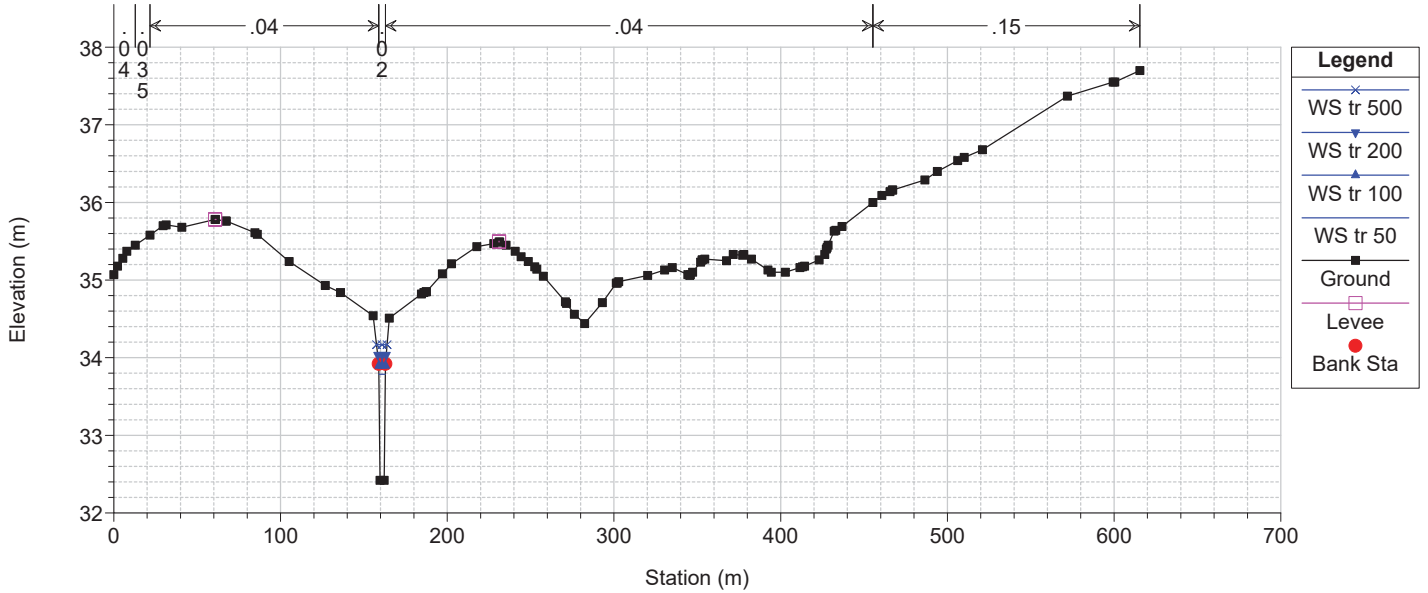
River = 090003_78574 Reach = asta RS = 1320 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

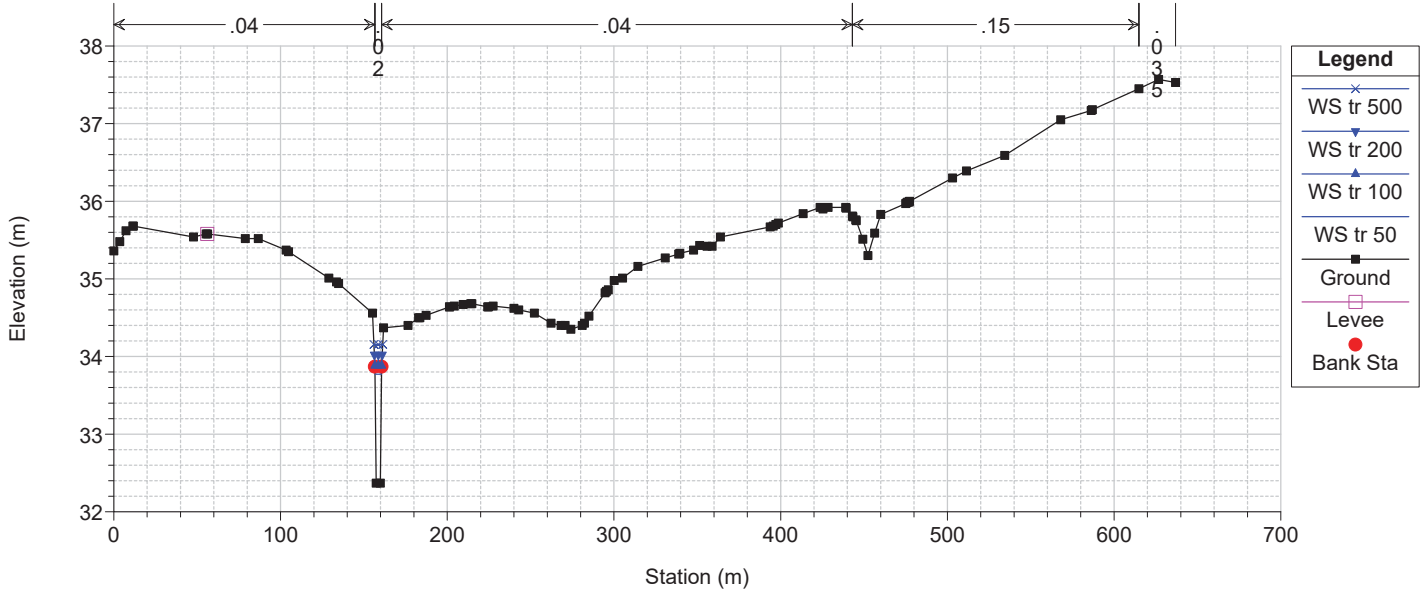
River = 090003_78574 Reach = asta RS = 1290 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

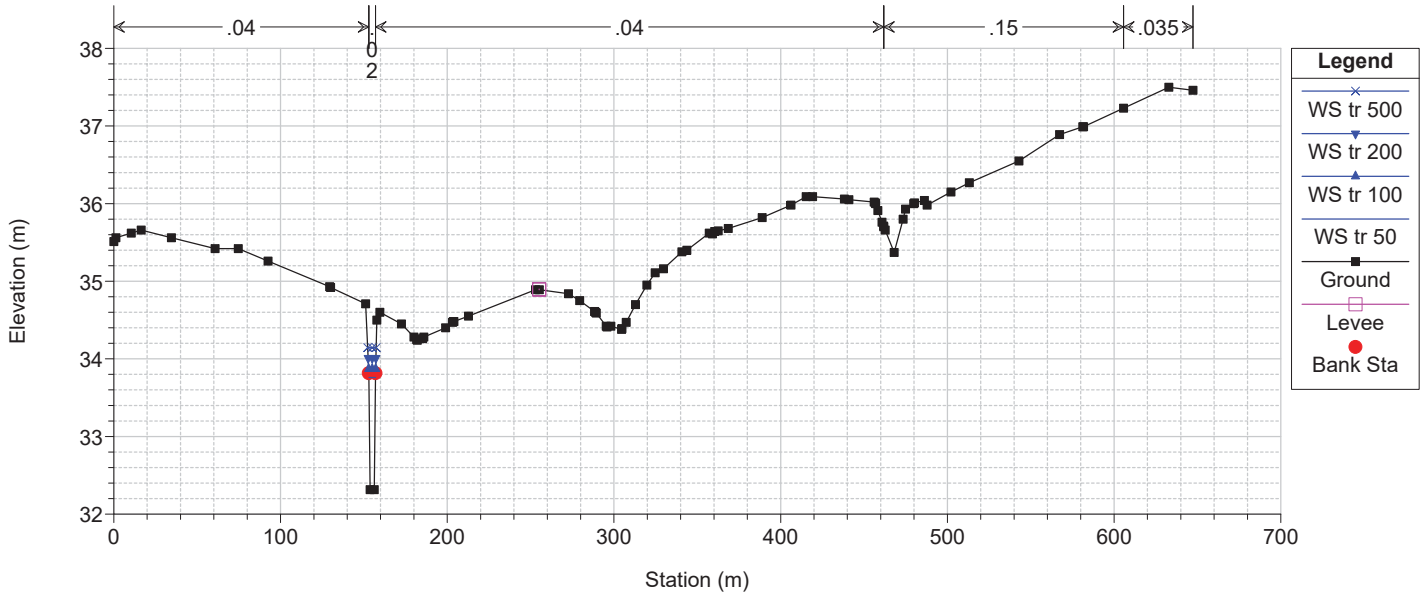
River = 090003_78574 Reach = asta RS = 1260 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

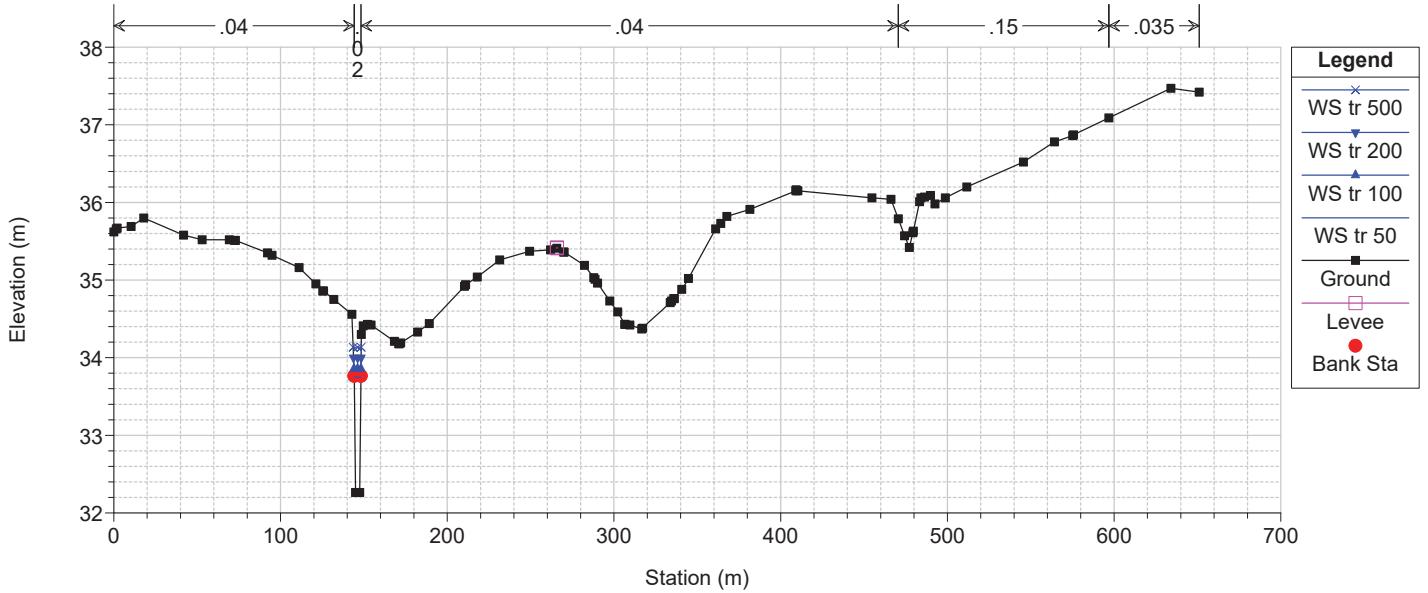
River = 090003_78574 Reach = asta RS = 1230 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

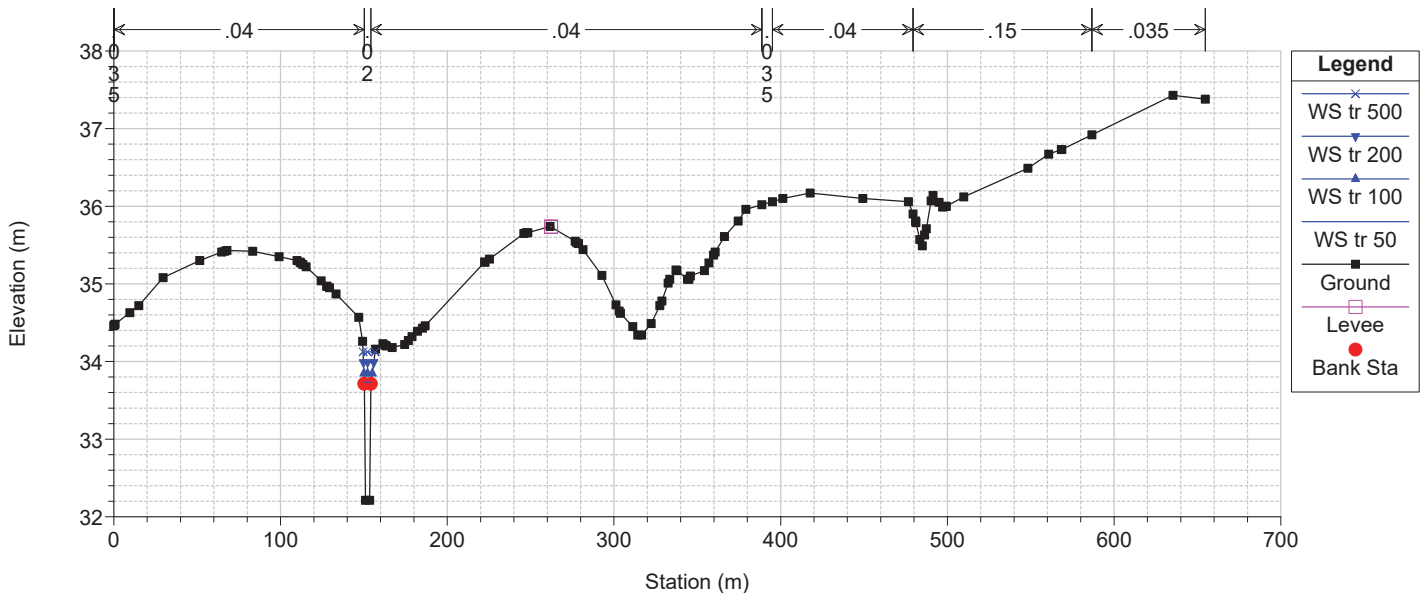
River = 090003_78574 Reach = asta RS = 1200 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

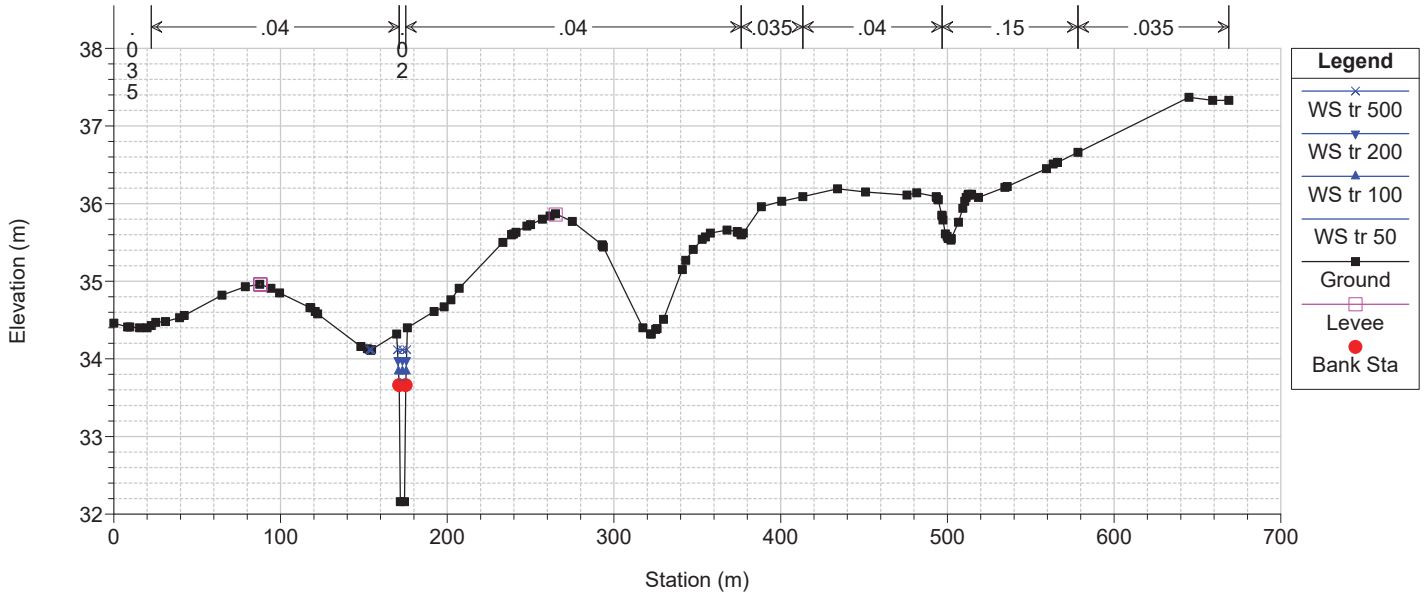
River = 090003_78574 Reach = asta RS = 1165.345 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

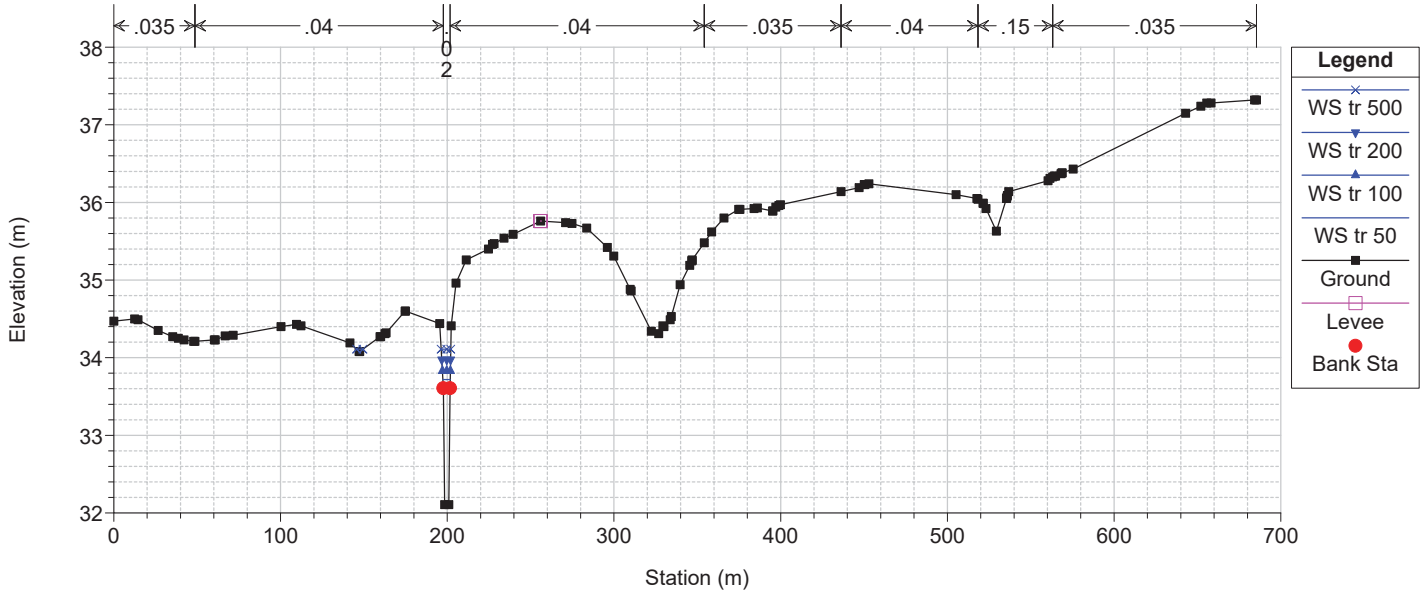
River = 090003_78574 Reach = asta RS = 1140 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

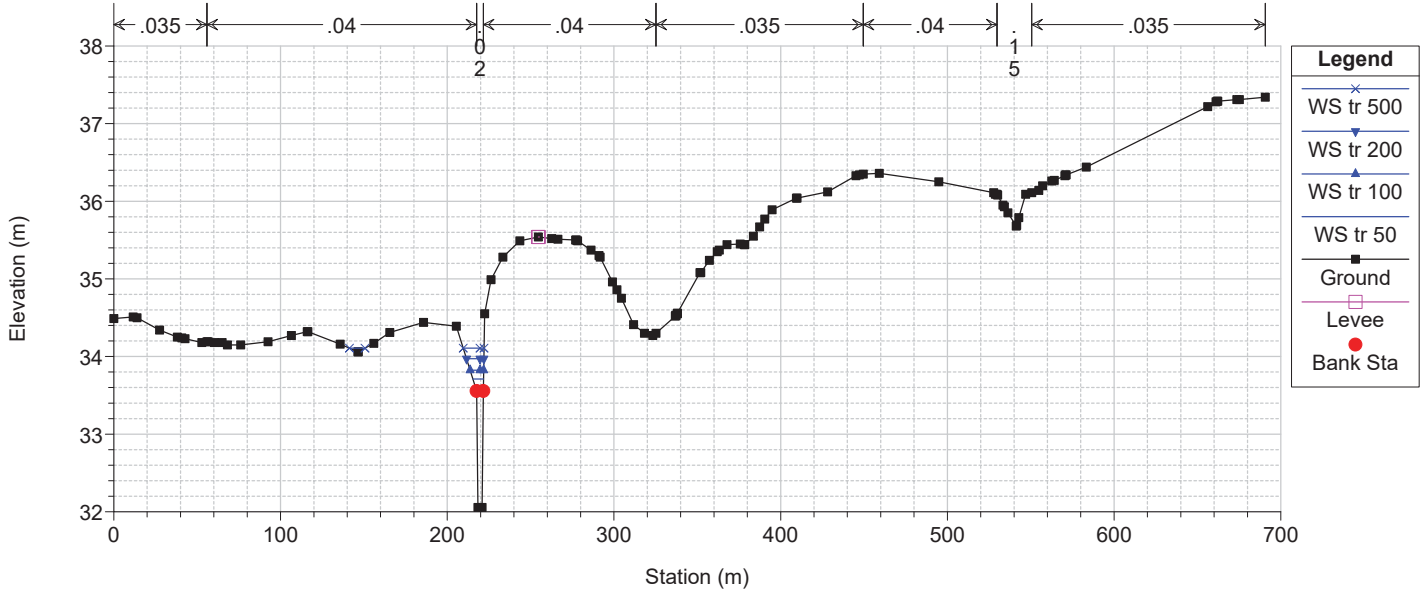
River = 090003_78574 Reach = asta RS = 1110 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

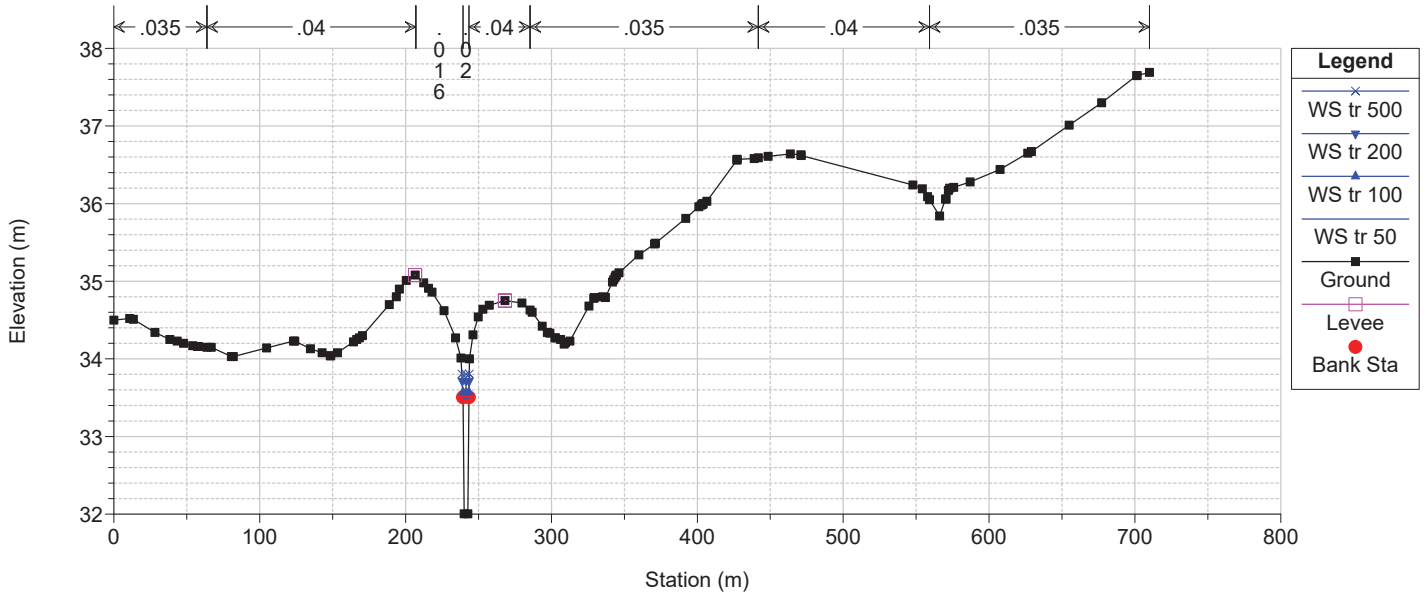
River = 090003_78574 Reach = asta RS = 1080 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

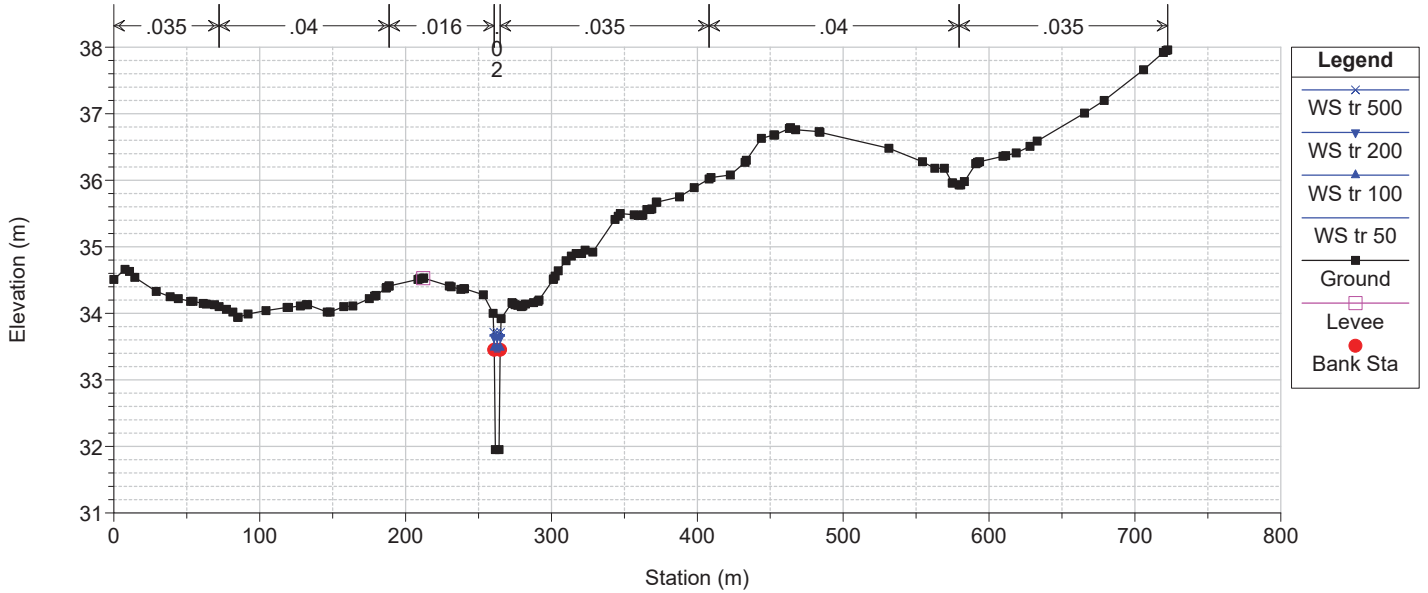
River = 090003_78574 Reach = asta RS = 1050 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

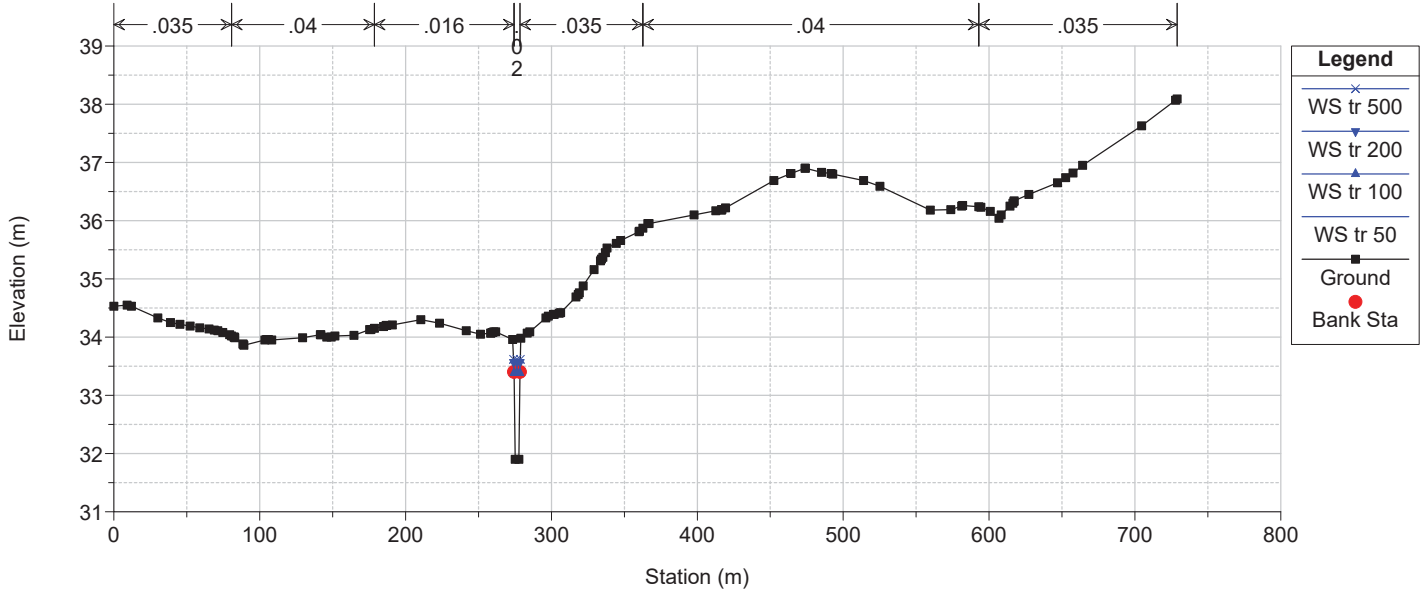
River = 090003_78574 Reach = asta RS = 1020 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

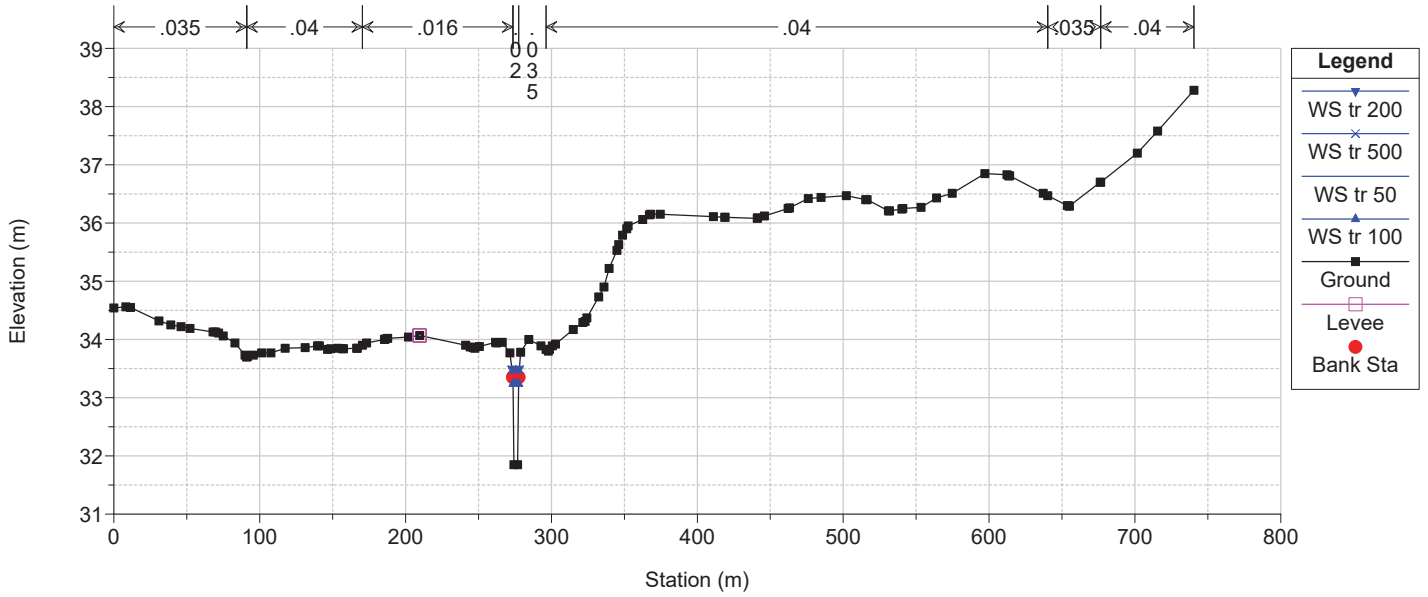
River = 090003_78574 Reach = asta RS = 990 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

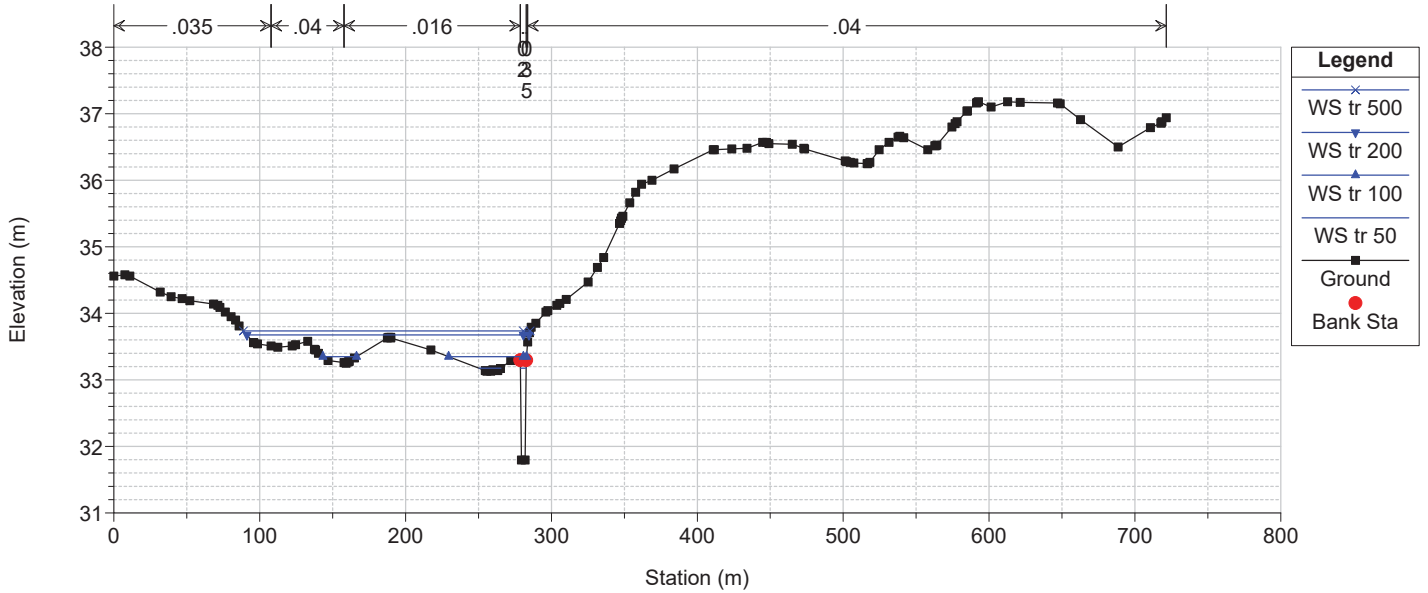
River = 090003_78574 Reach = asta RS = 960.0001 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

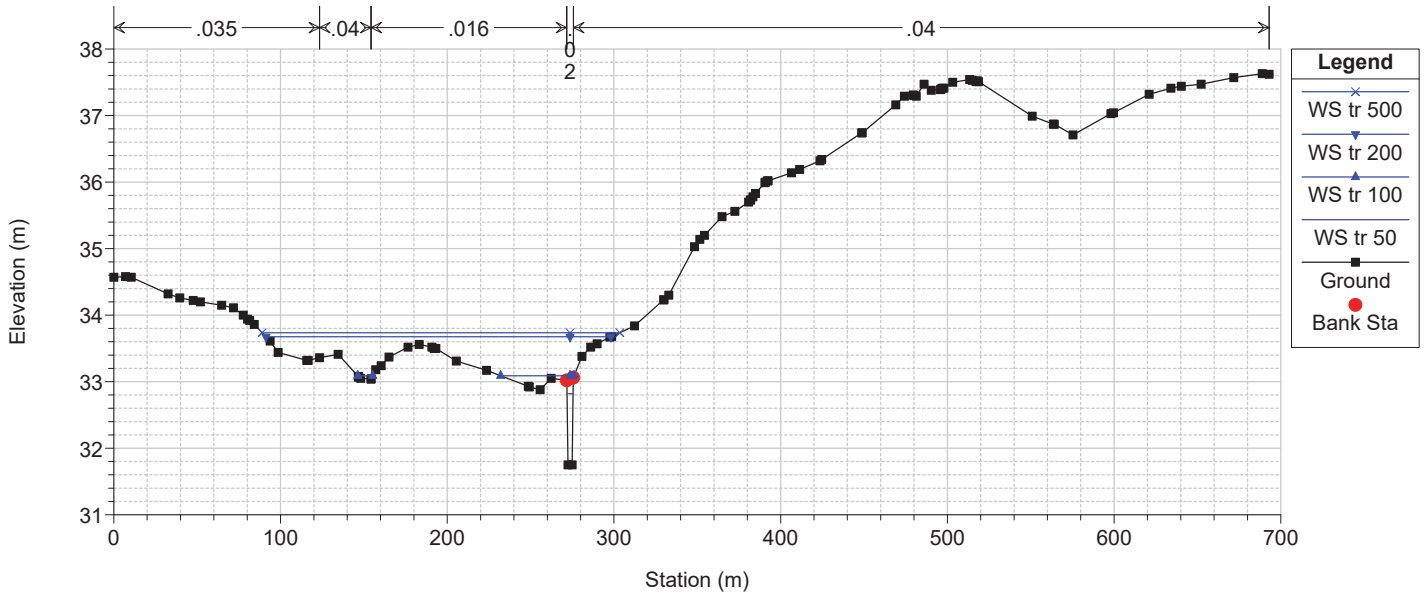
River = 090003_78574 Reach = asta RS = 930.0001 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

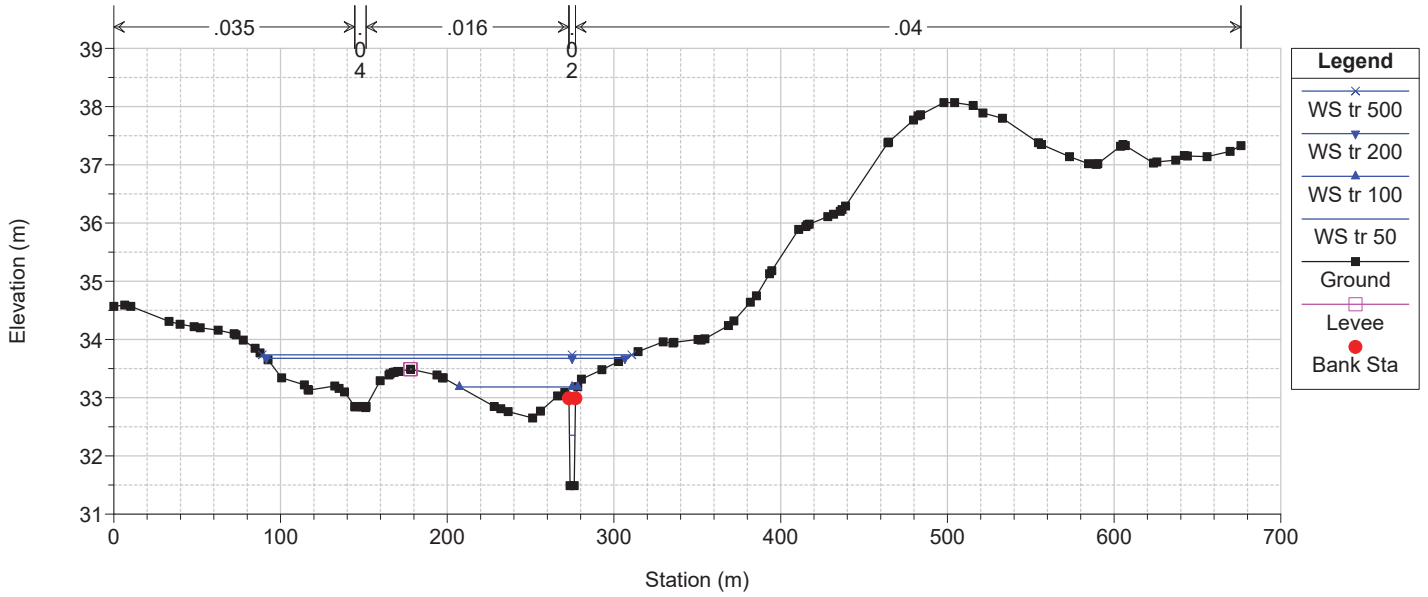
River = 090003_78574 Reach = asta RS = 900 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

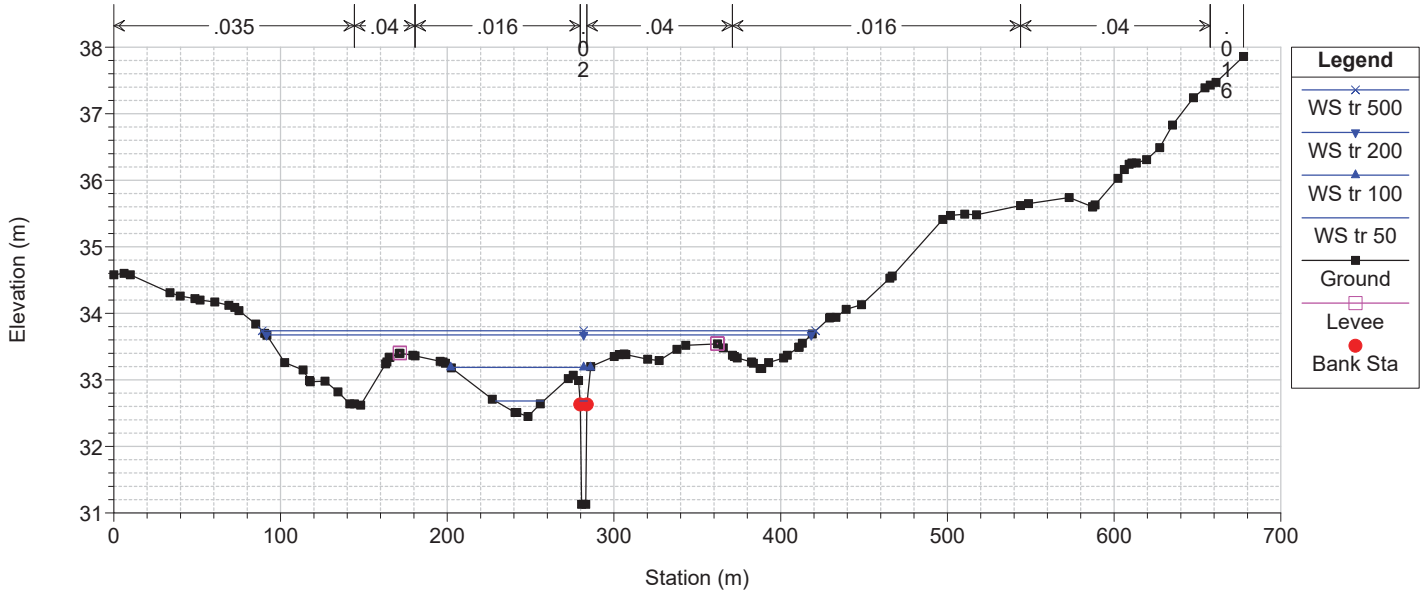
River = 090003_78574 Reach = asta RS = 883.6661 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

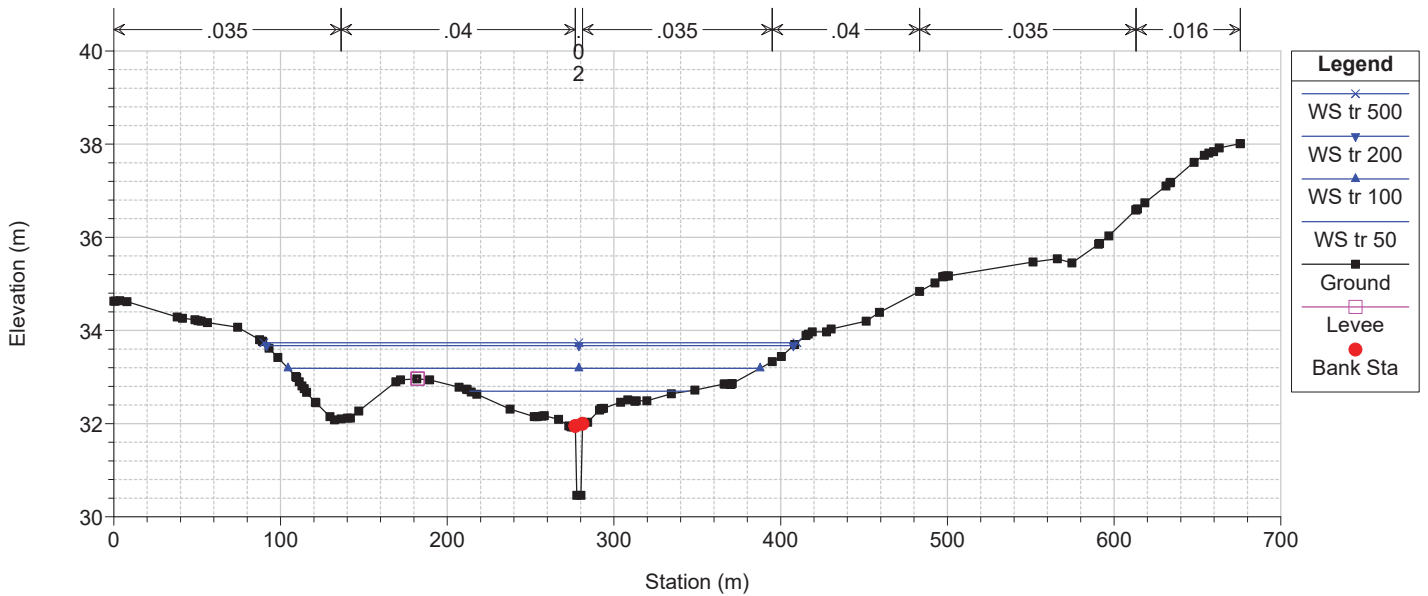
River = 090003_78574 Reach = asta RS = 861.584 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

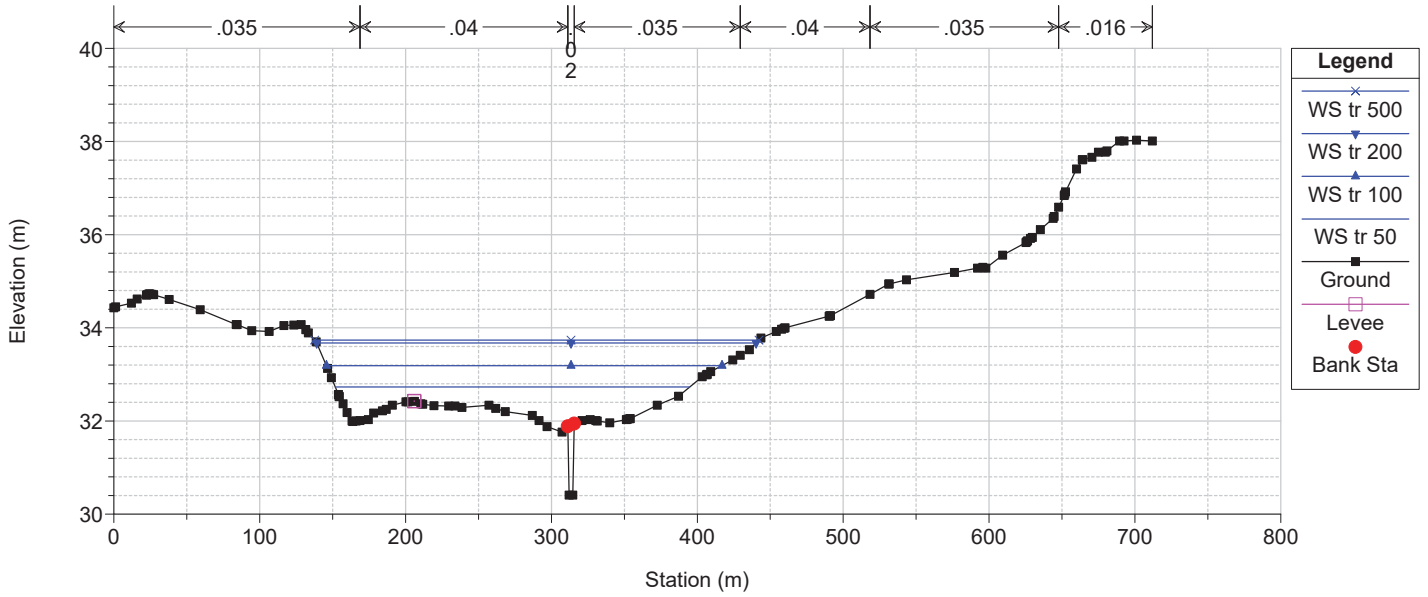
River = 090003_78574 Reach = asta RS = 840.0001 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

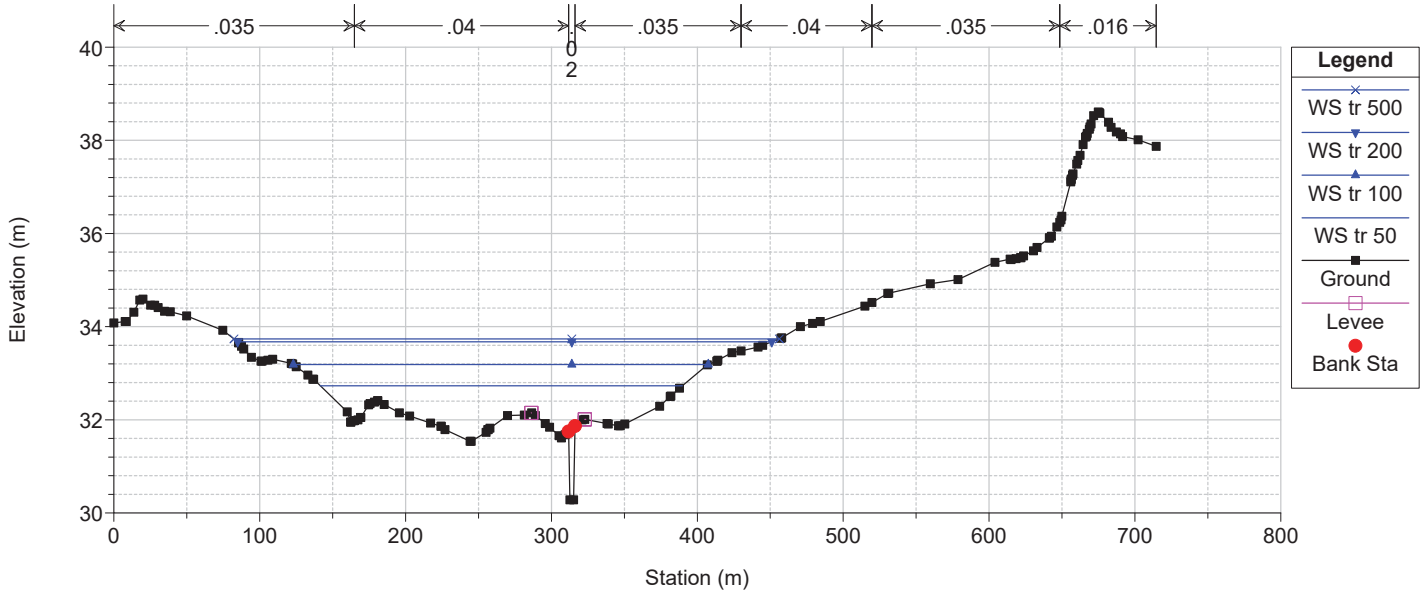
River = 090003_78574 Reach = asta RS = 824.9322 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

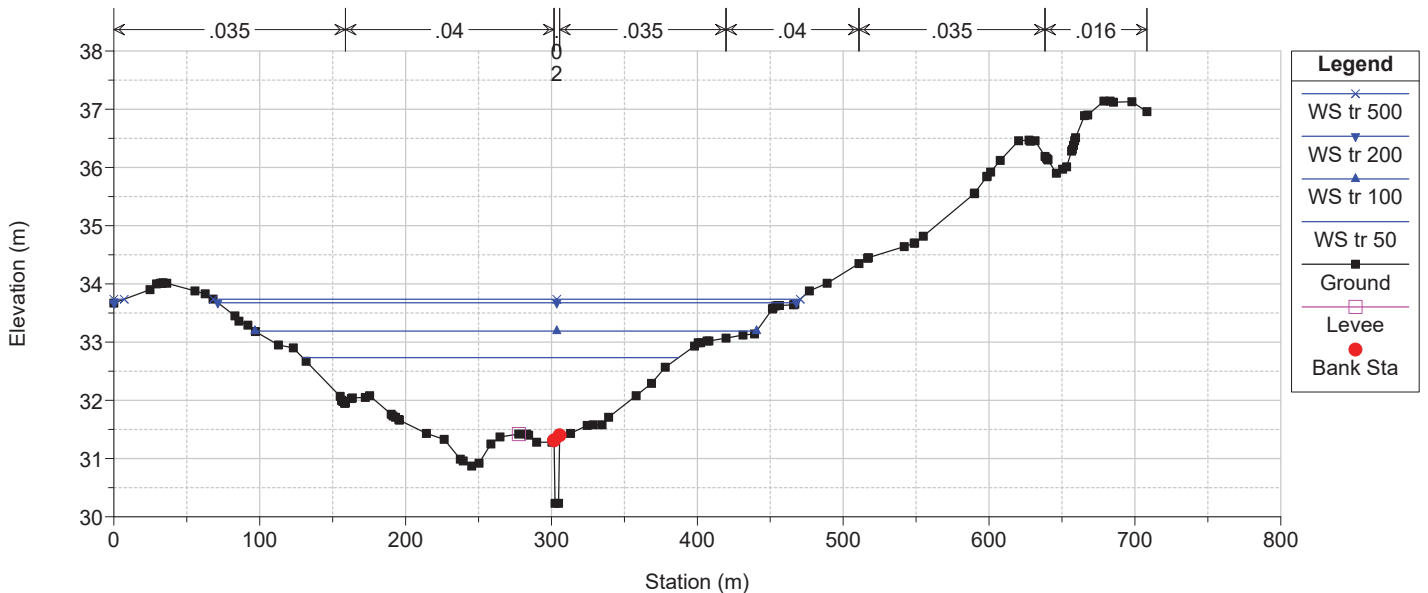
River = 090003_78574 Reach = asta RS = 810.0001 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

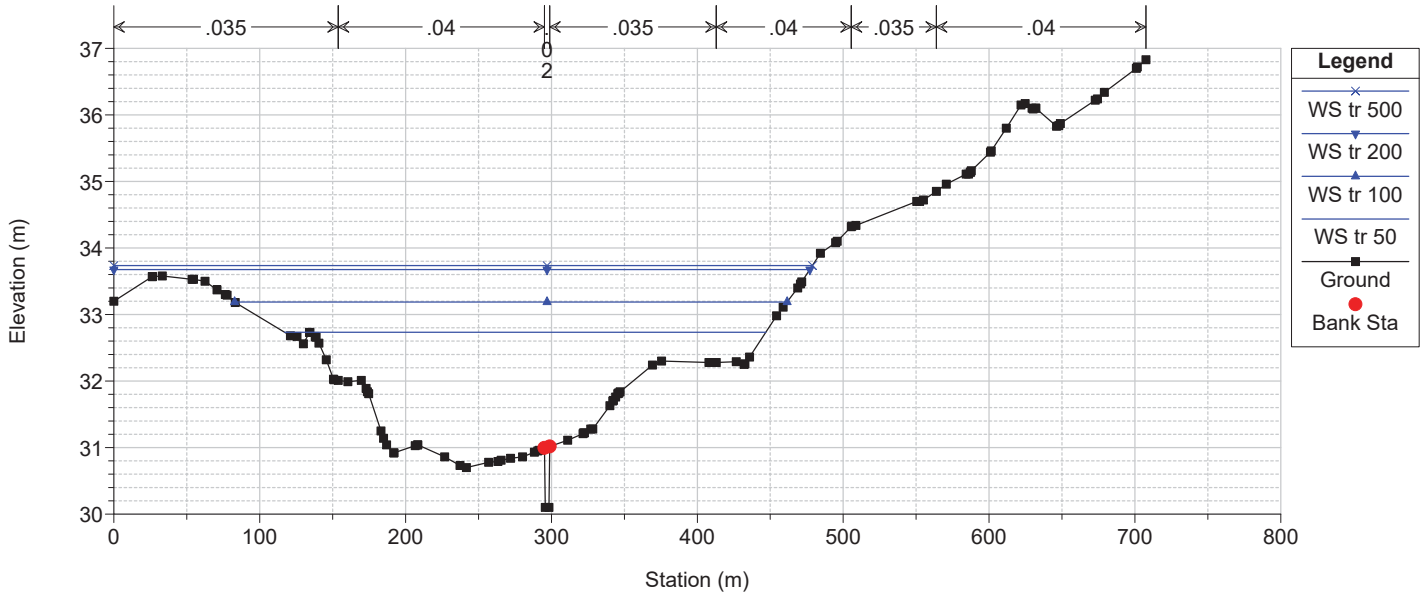
River = 090003_78574 Reach = asta RS = 780.0001 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

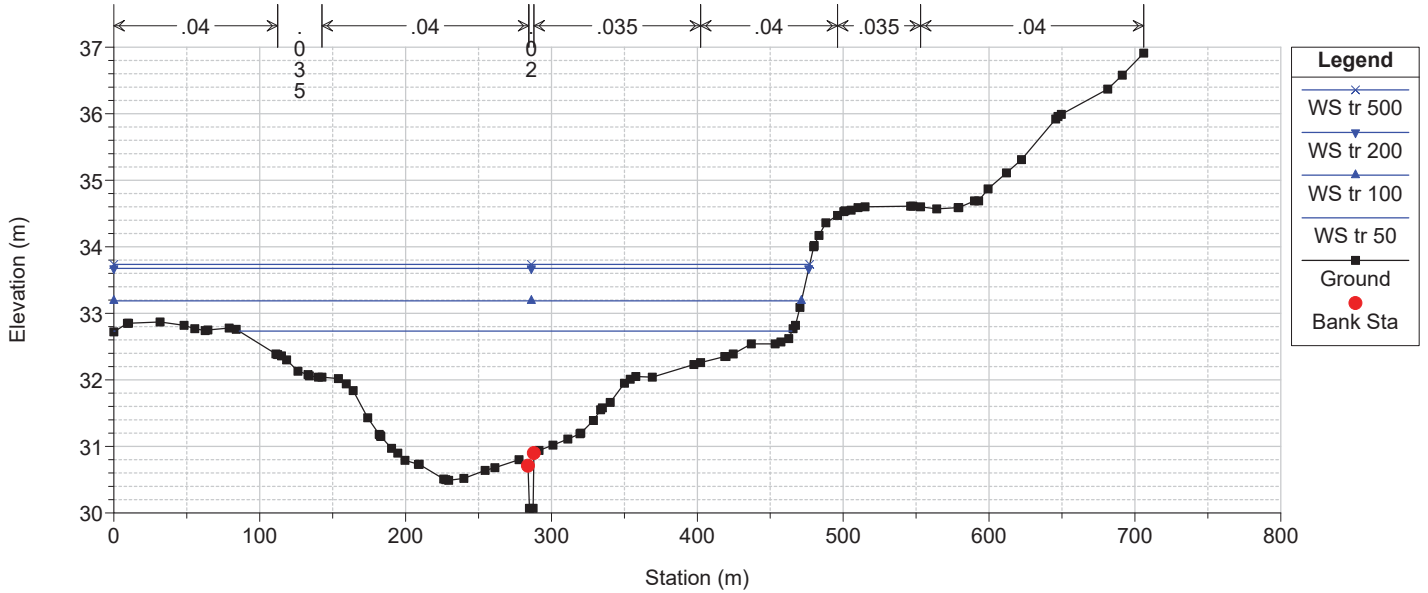
River = 090003_78574 Reach = asta RS = 750.0001 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

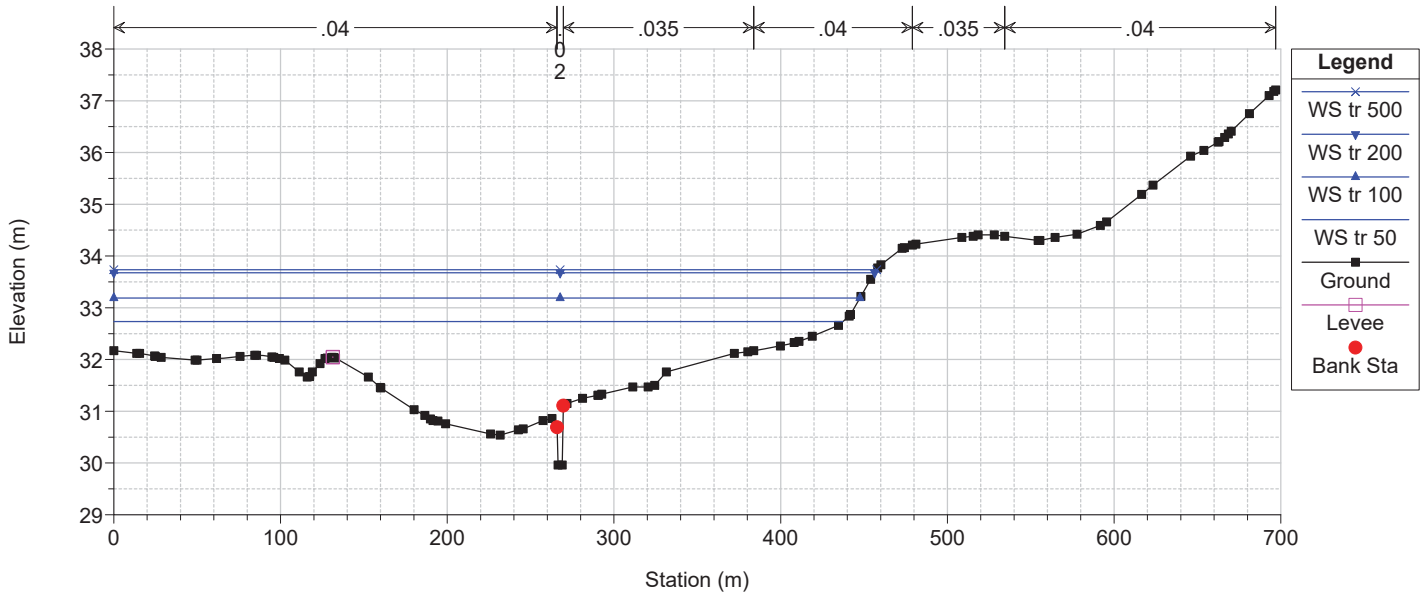
River = 090003_78574 Reach = asta RS = 720 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

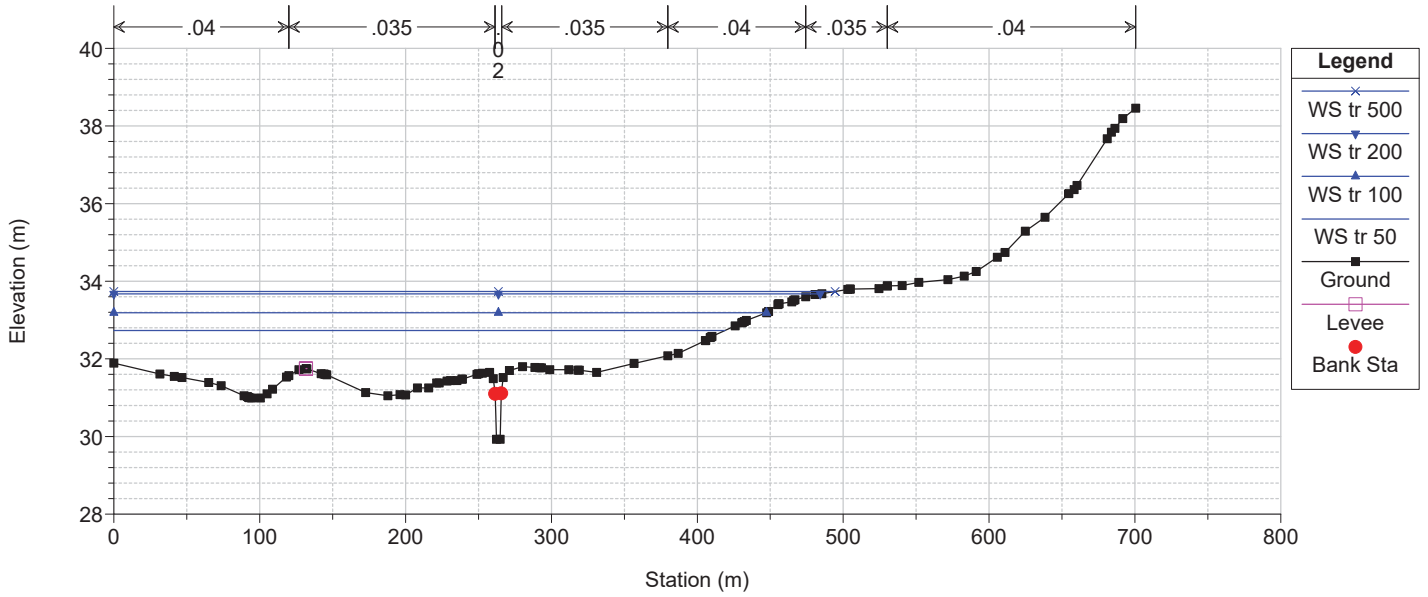
River = 090003_78574 Reach = asta RS = 690 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

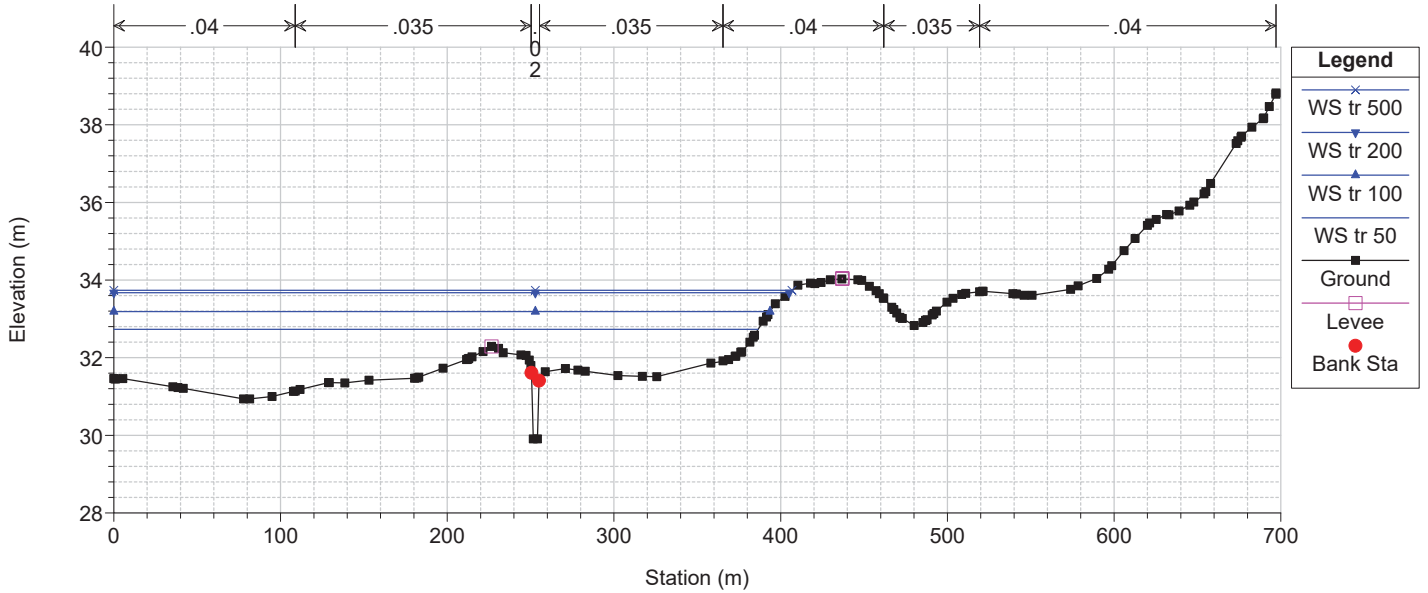
River = 090003_78574 Reach = asta RS = 660 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

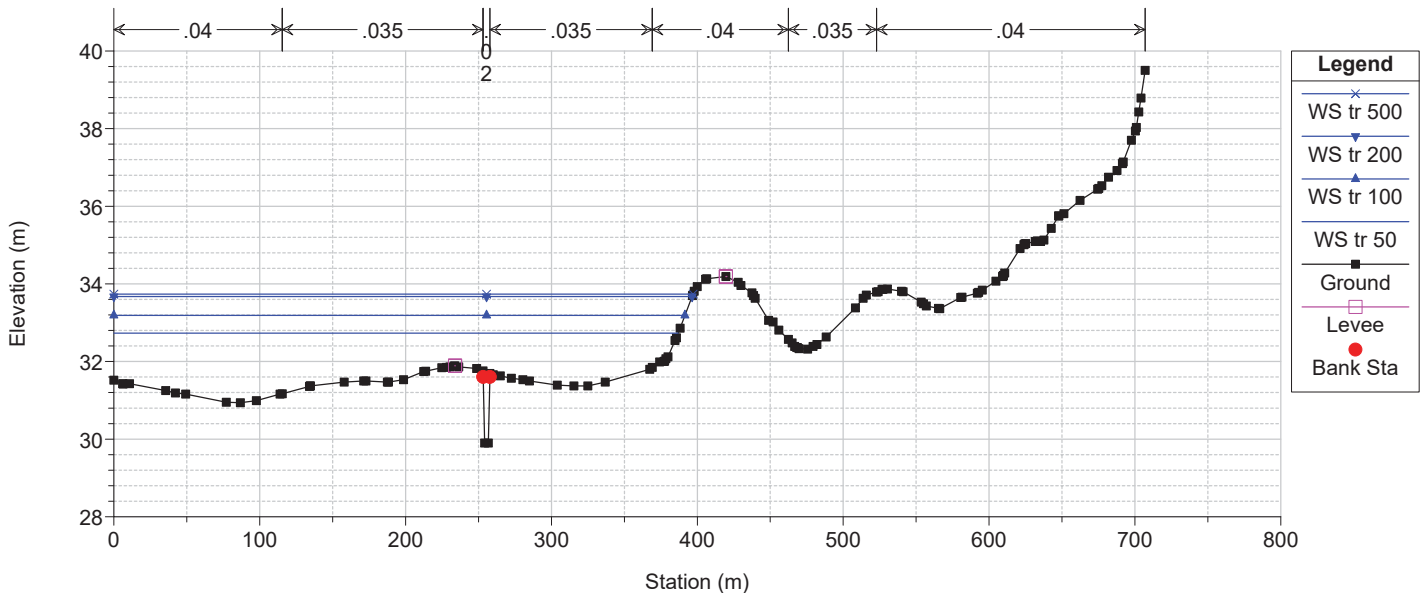
River = 090003_78574 Reach = asta RS = 619.4314 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

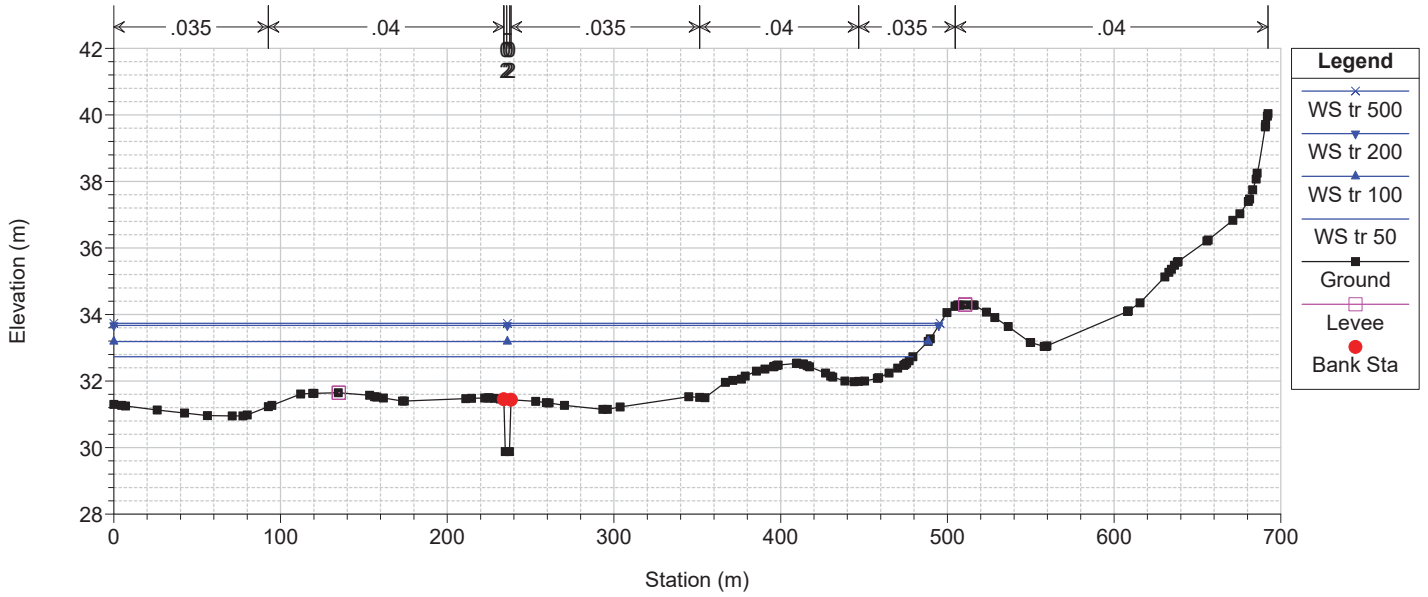
River = 090003_78574 Reach = asta RS = 604.3116 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

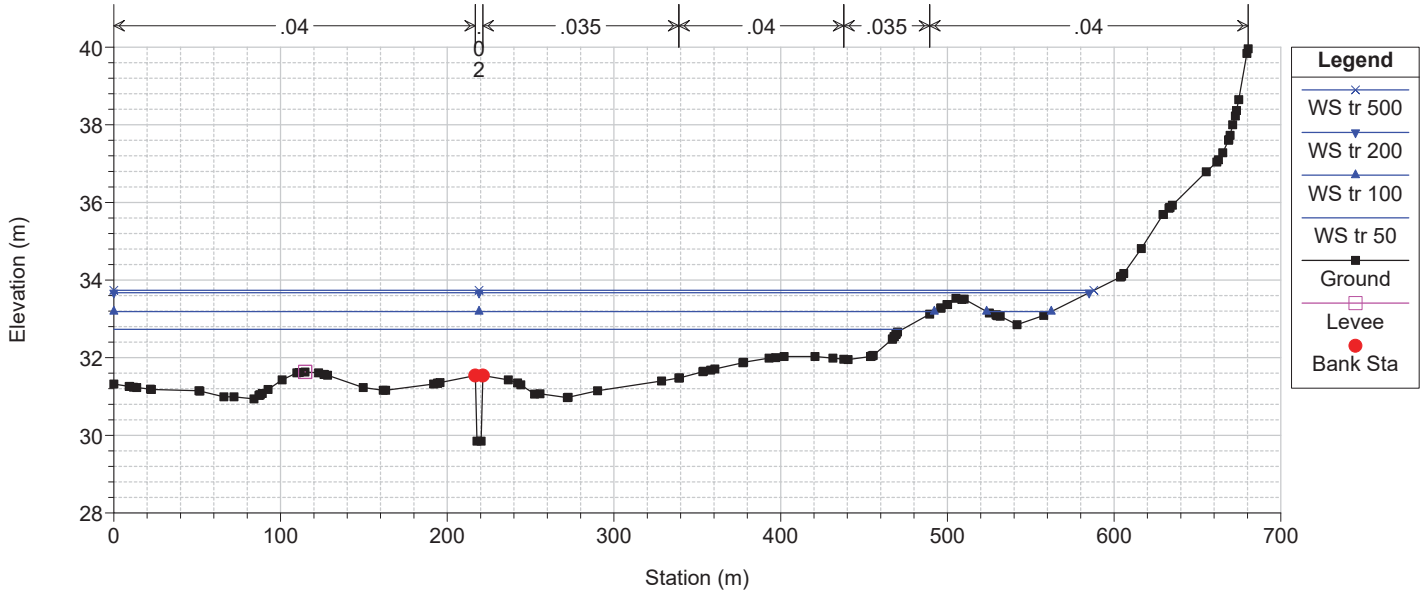
River = 090003_78574 Reach = asta RS = 570 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

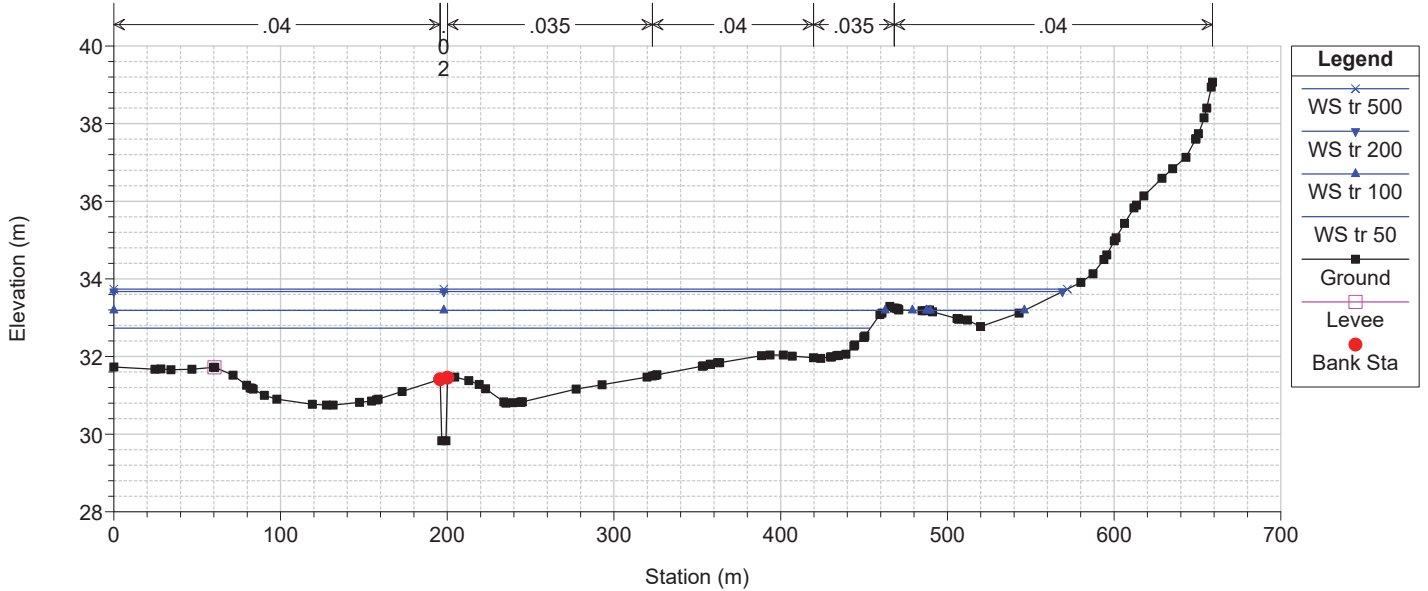
River = 090003_78574 Reach = asta RS = 540.0001 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

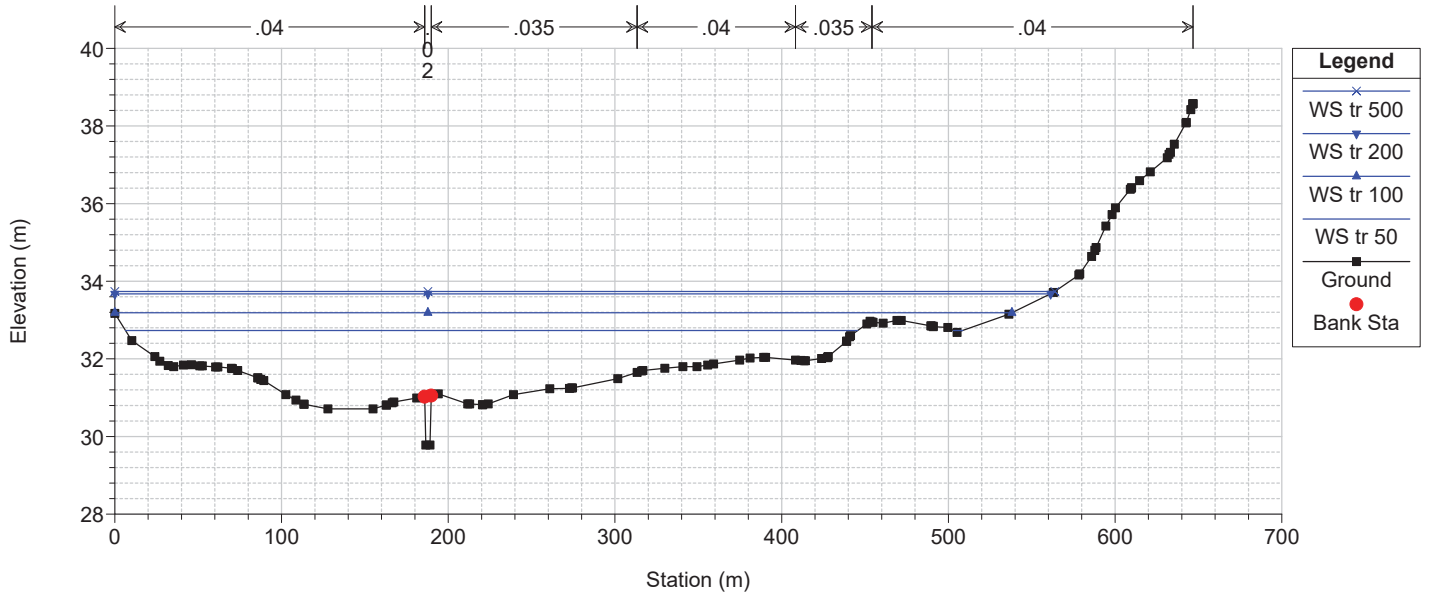
River = 090003_78574 Reach = asta RS = 510 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

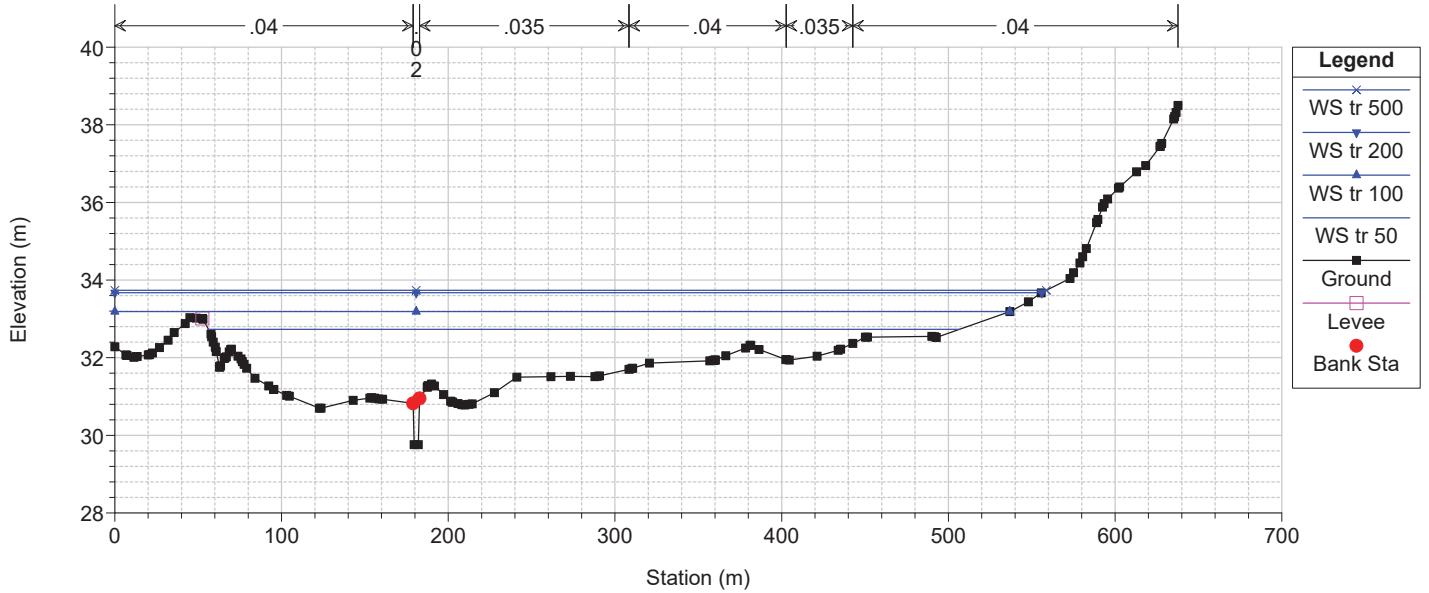
River = 090003_78574 Reach = asta RS = 480 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

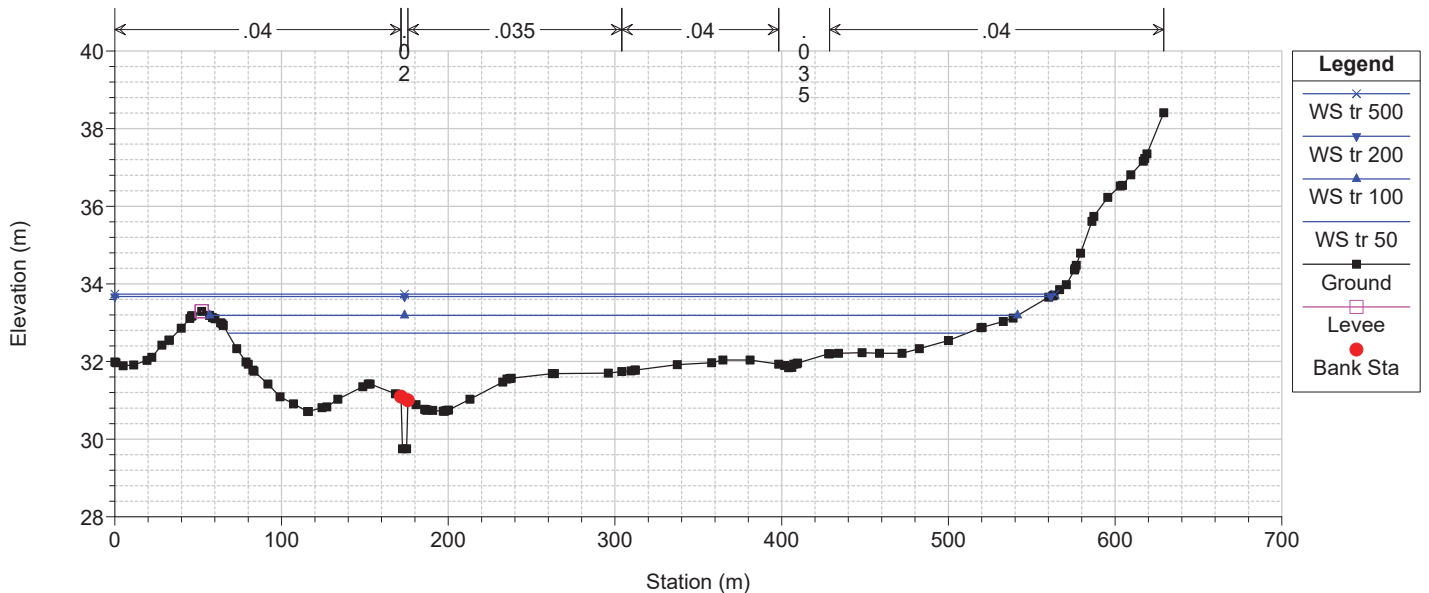
River = 090003_78574 Reach = asta RS = 450 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

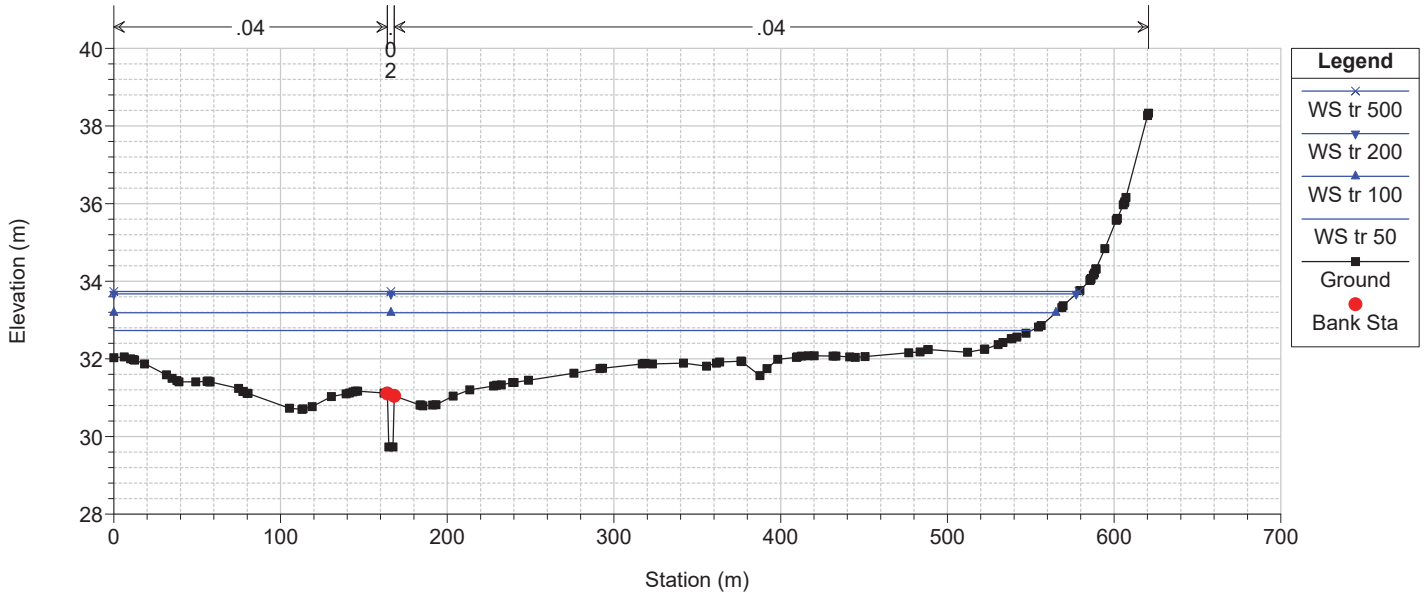
River = 090003_78574 Reach = asta RS = 420.0001 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

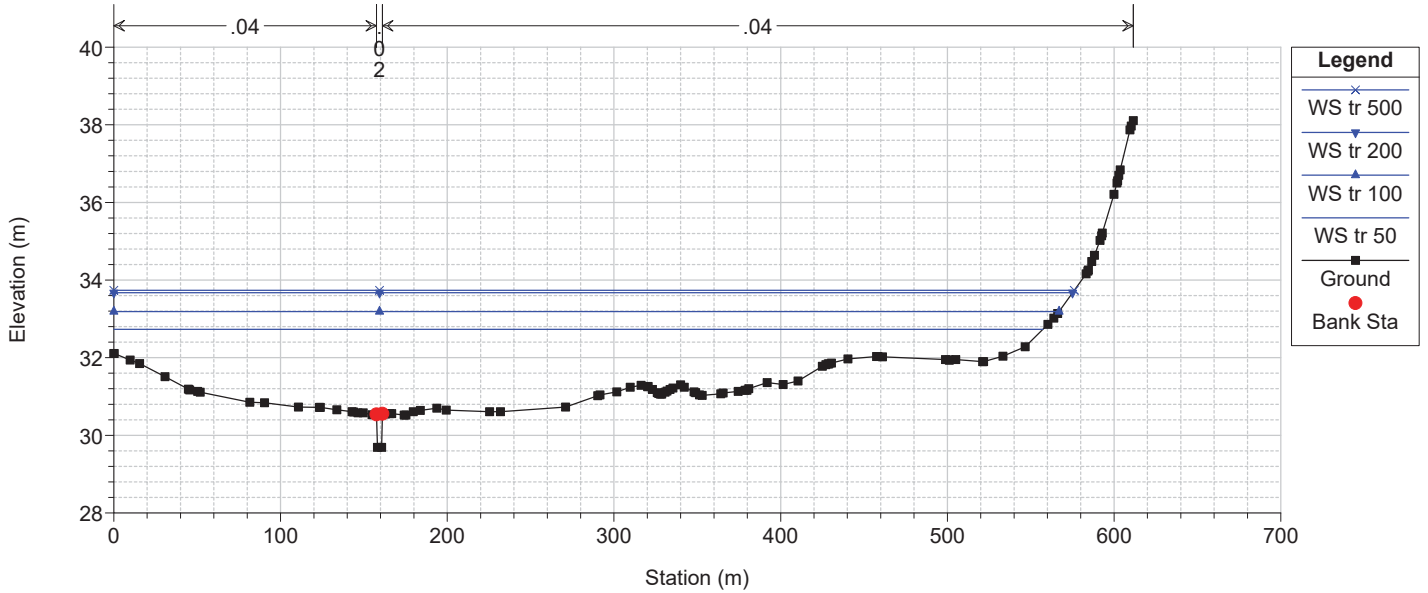
River = 090003_78574 Reach = asta RS = 390 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

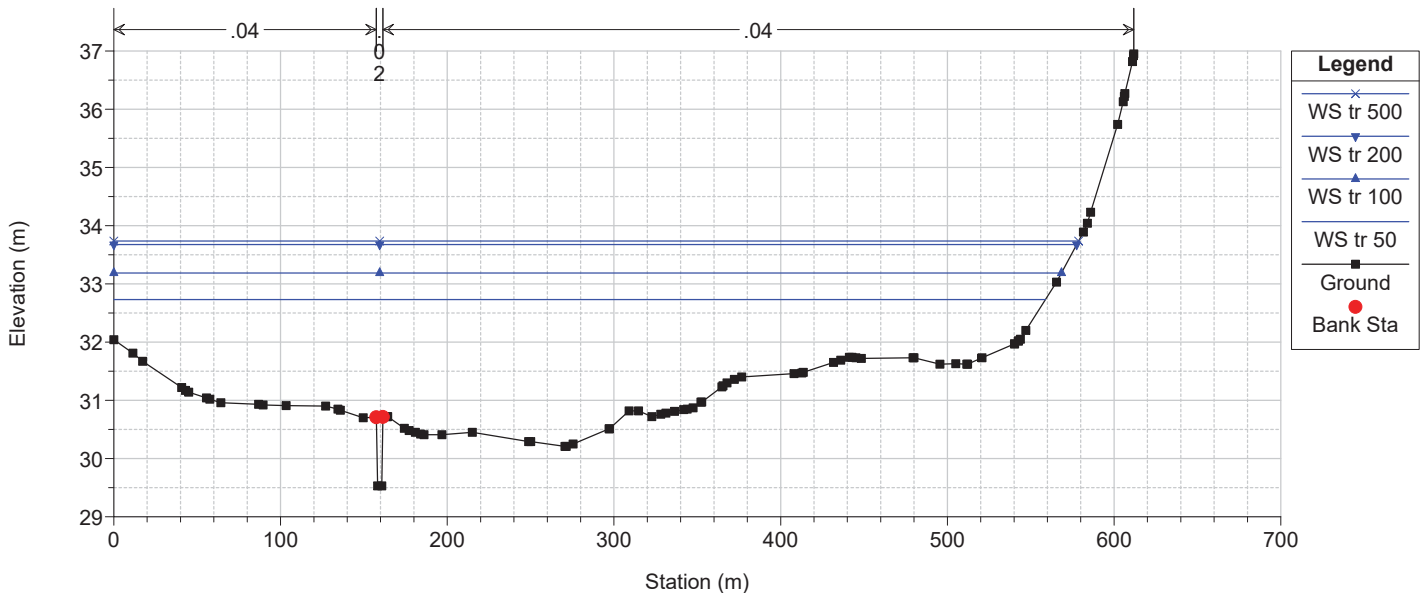
River = 090003_78574 Reach = asta RS = 352.833 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

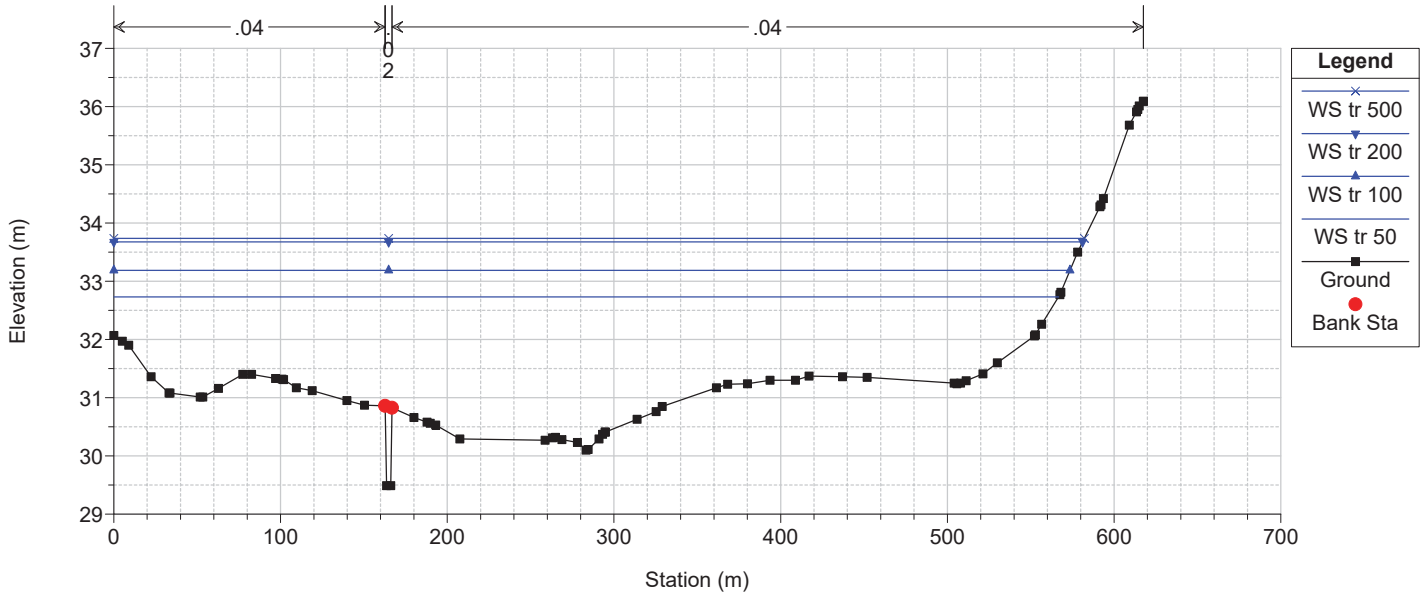
River = 090003_78574 Reach = asta RS = 334.9567 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

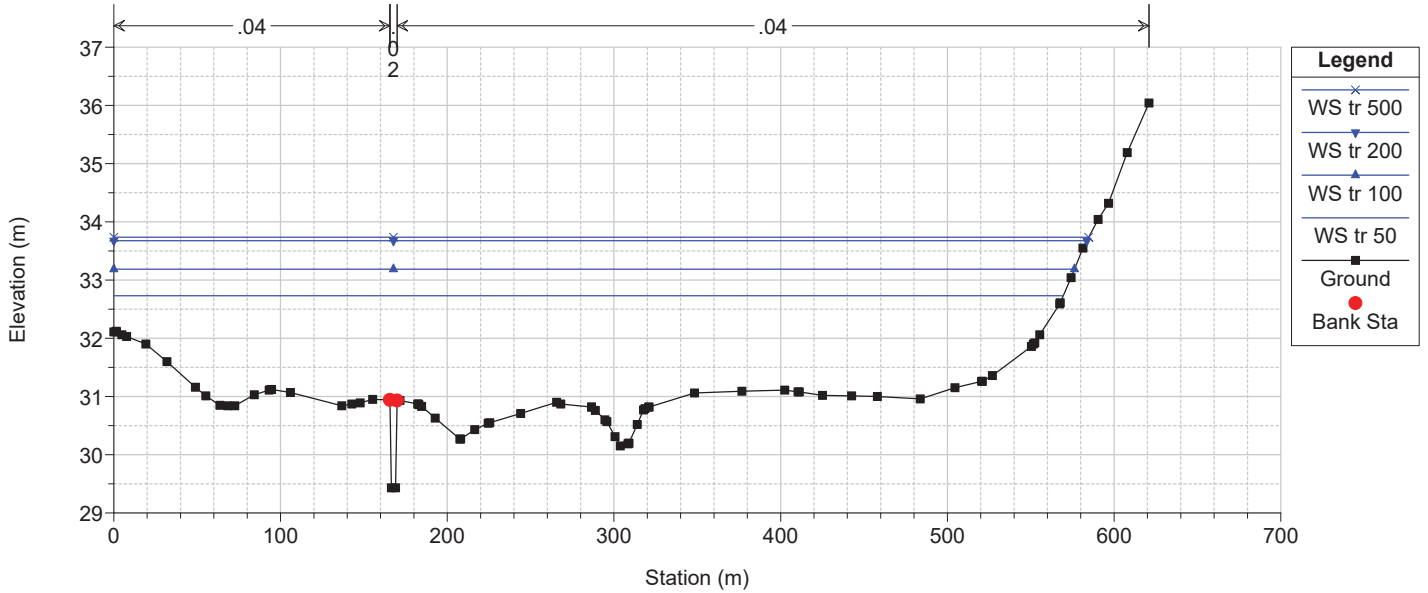
River = 090003_78574 Reach = asta RS = 300 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

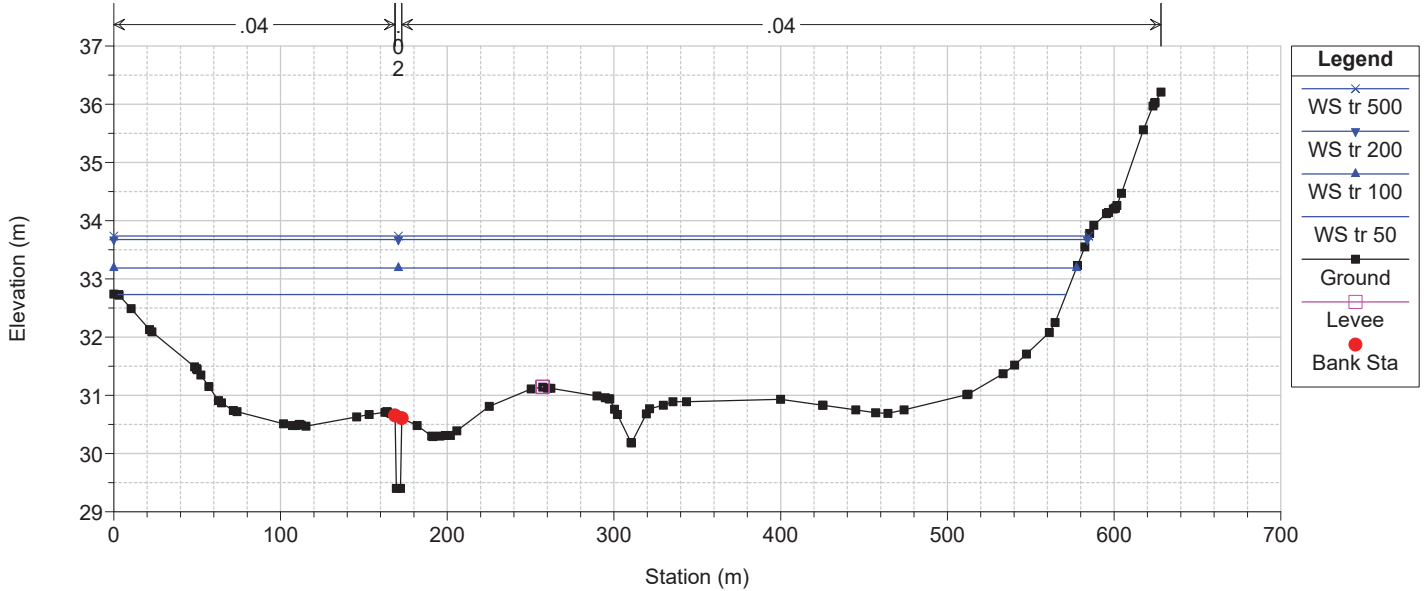
River = 090003_78574 Reach = asta RS = 269.9999 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

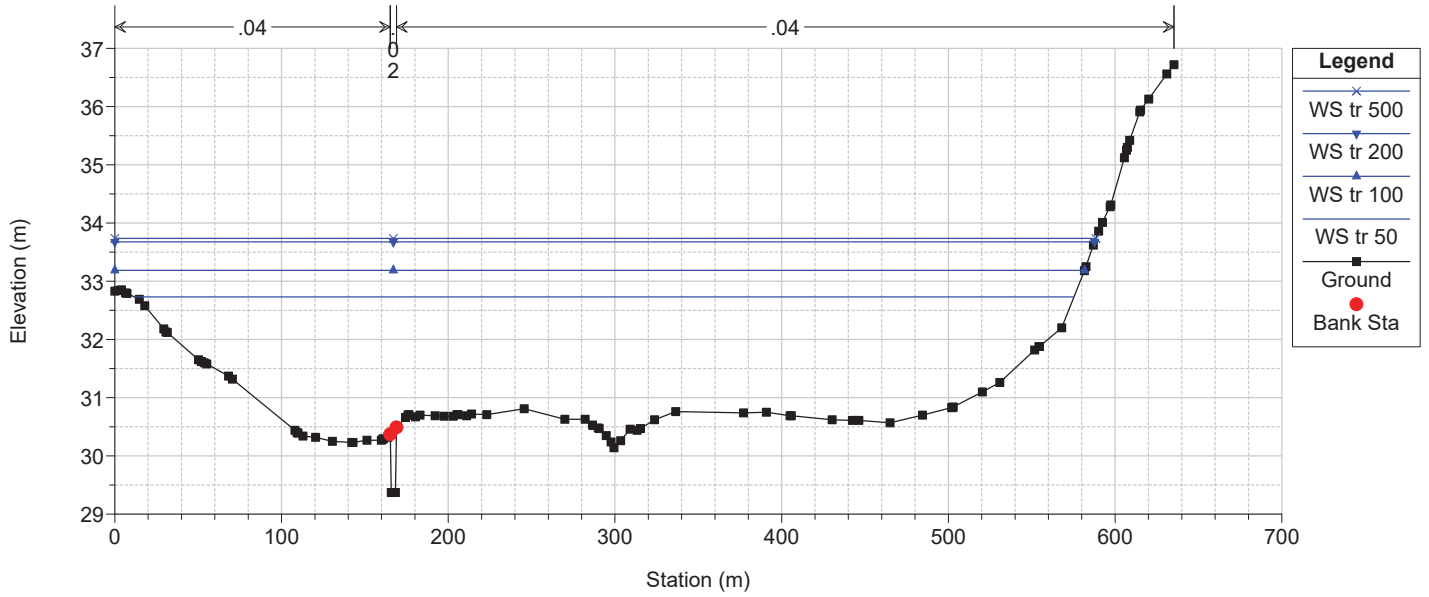
River = 090003_78574 Reach = asta RS = 240 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

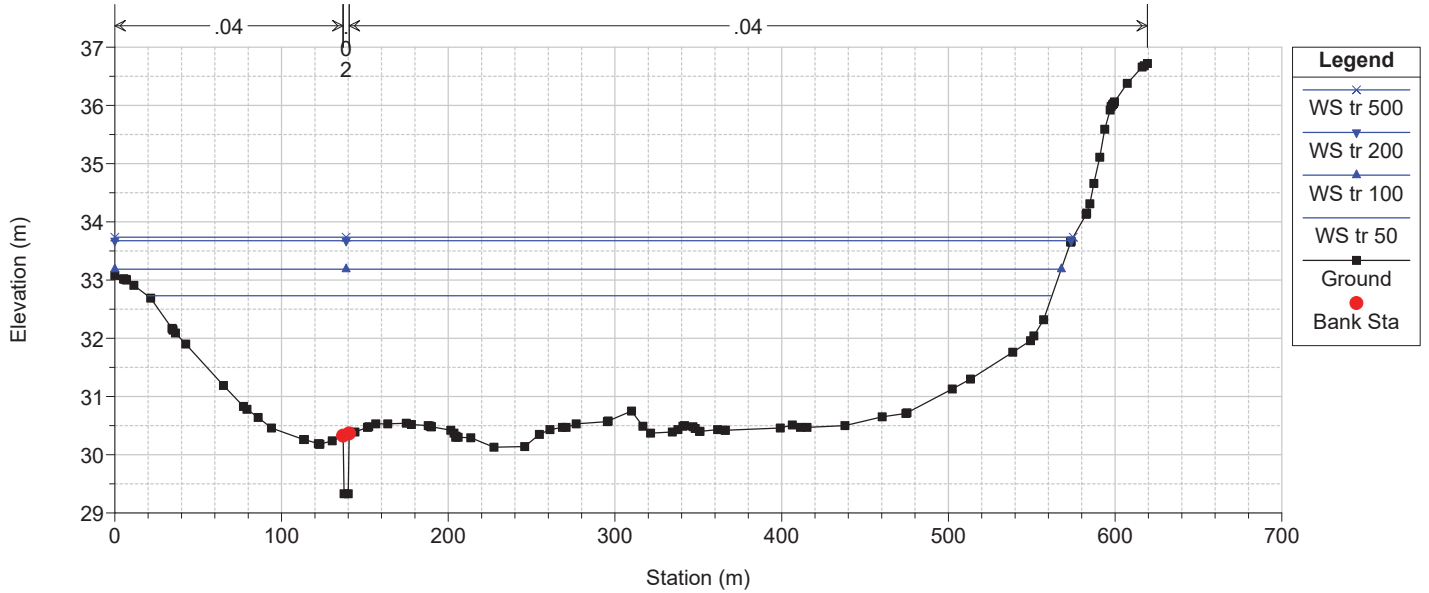
River = 090003_78574 Reach = asta RS = 210 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

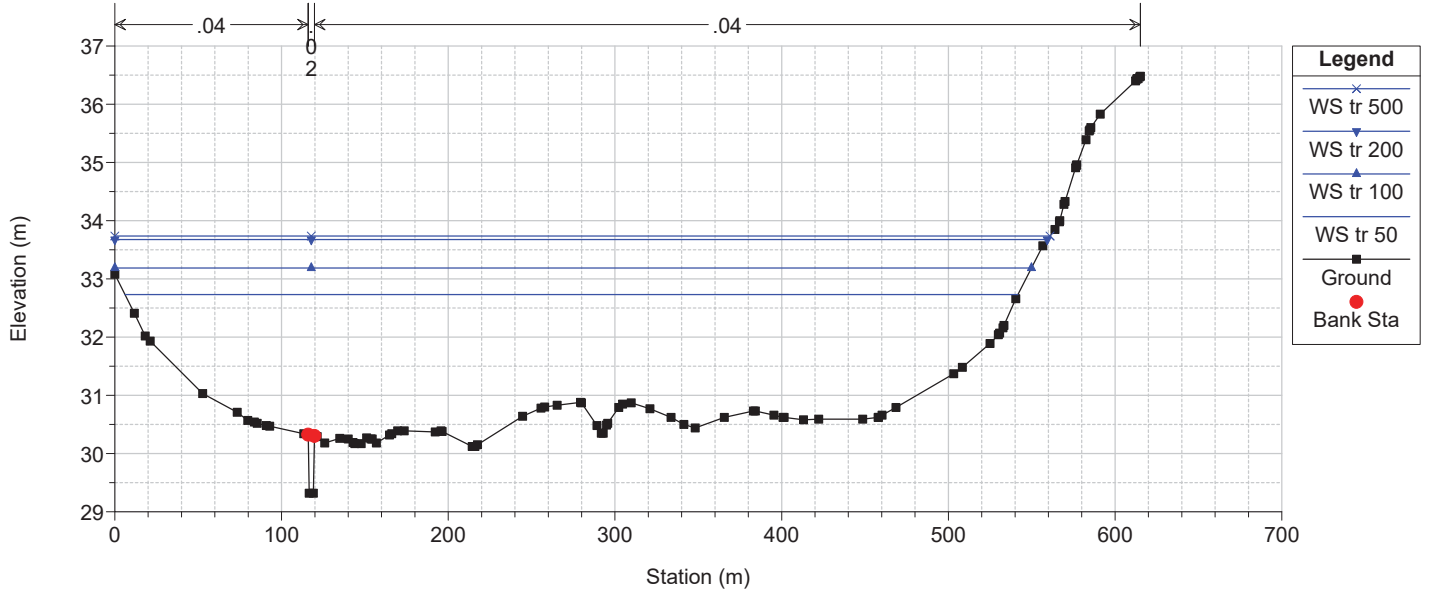
River = 090003_78574 Reach = asta RS = 180 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

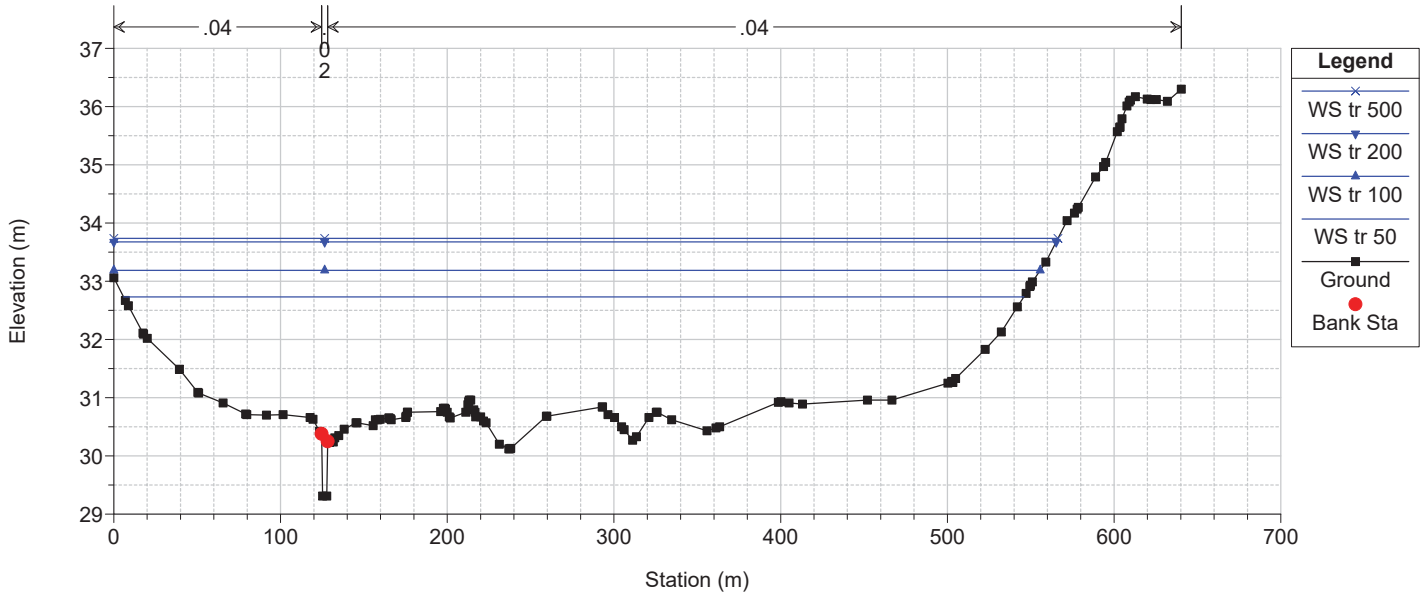
River = 090003_78574 Reach = asta RS = 150 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

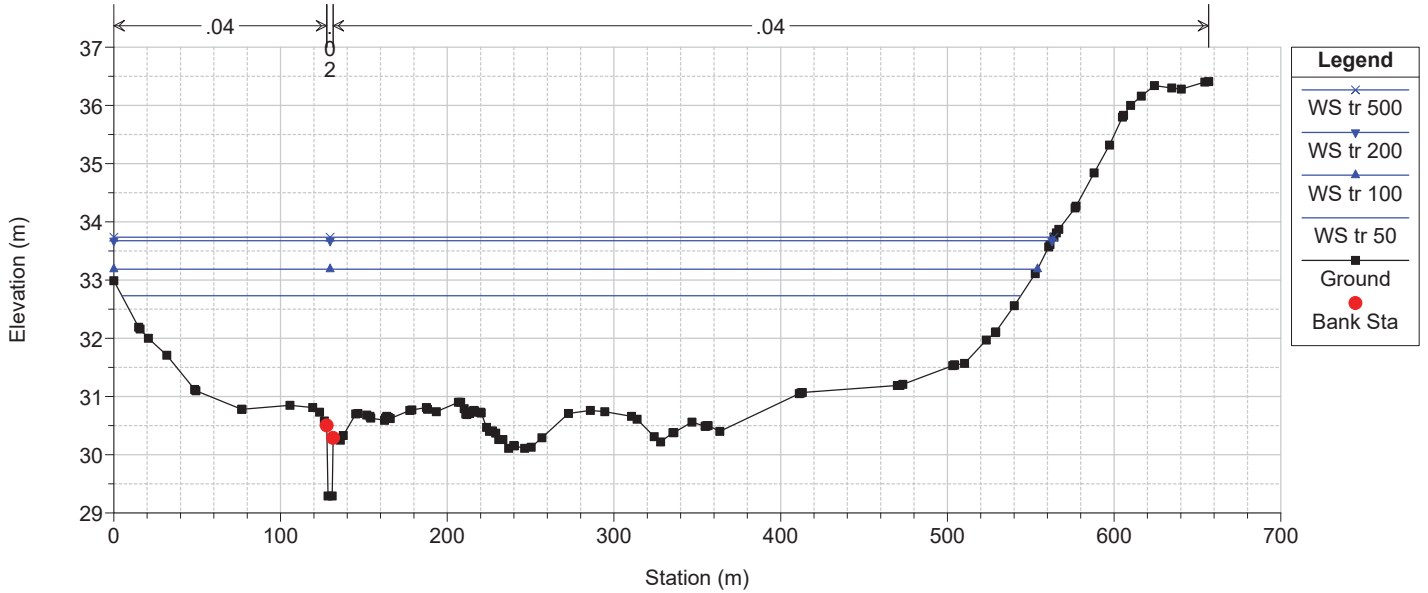
River = 090003_78574 Reach = asta RS = 120 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

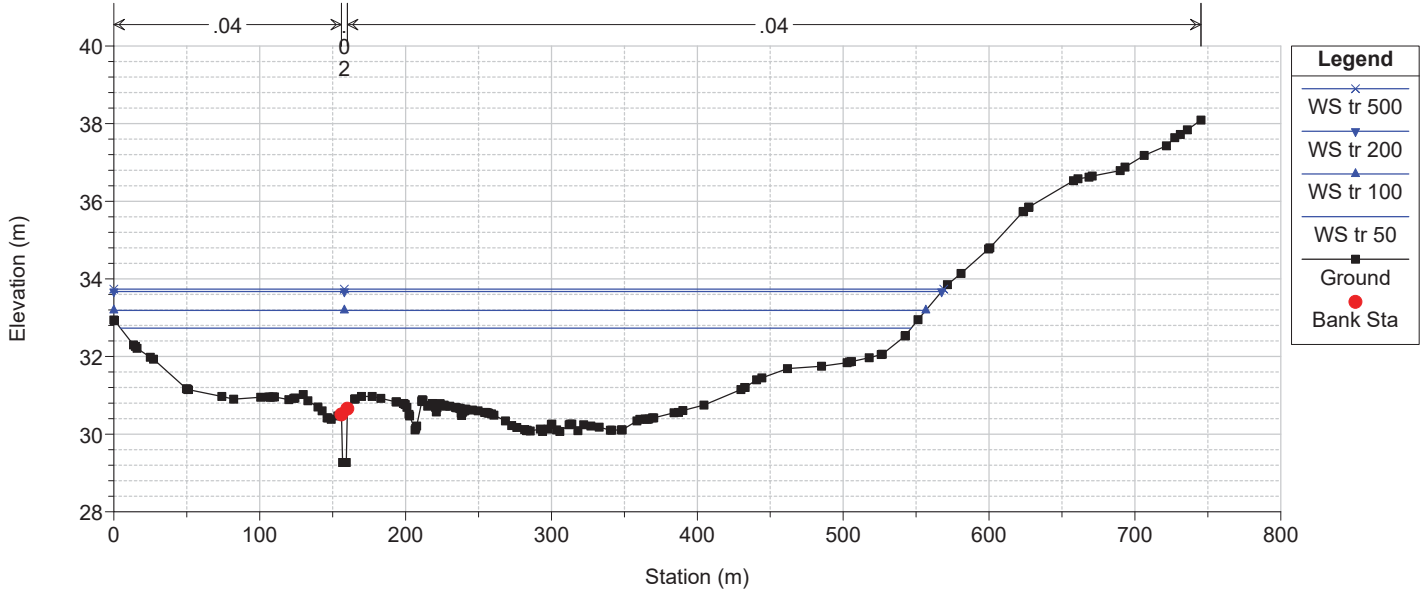
River = 090003_78574 Reach = asta RS = 105.6025 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

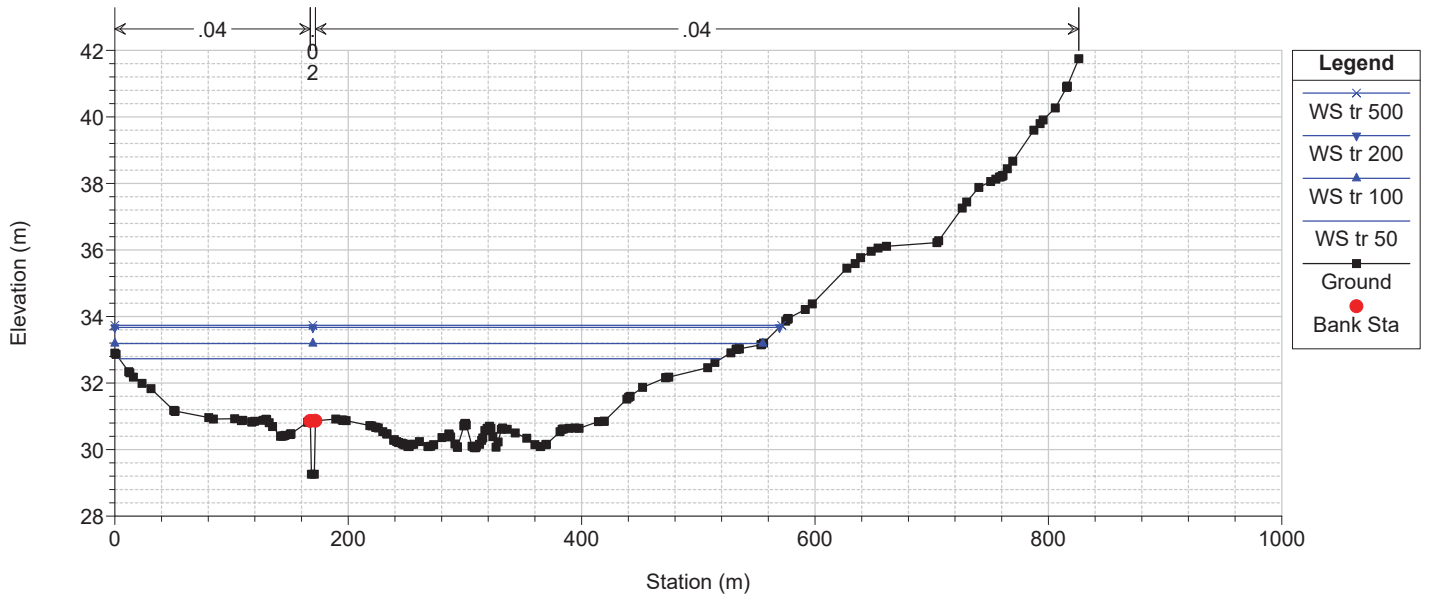
River = 090003_78574 Reach = asta RS = 60 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



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

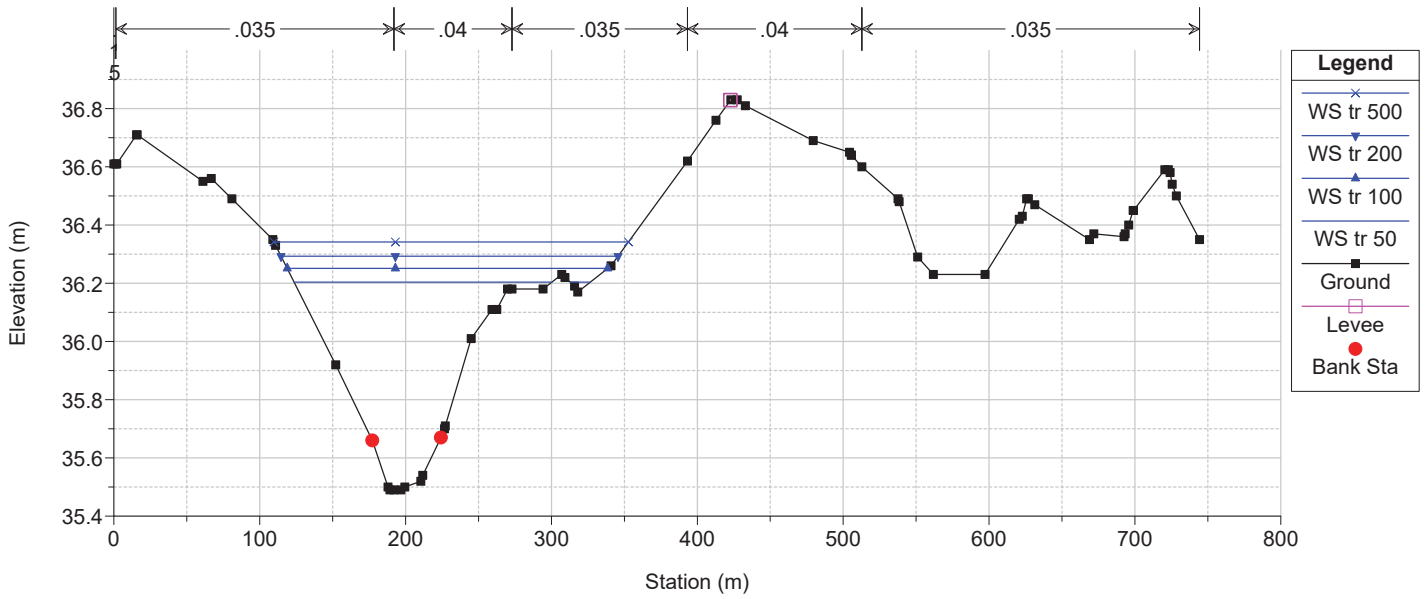
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
asta	750.0001	tr 100	29.99	30.10	33.19		33.19	0.000002	0.13	528.30	378.81	0.02
asta	750.0001	tr 200	34.49	30.10	33.68		33.68	0.000001	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

Geom: urune26062017_2_rev07 Flow: urune26062017

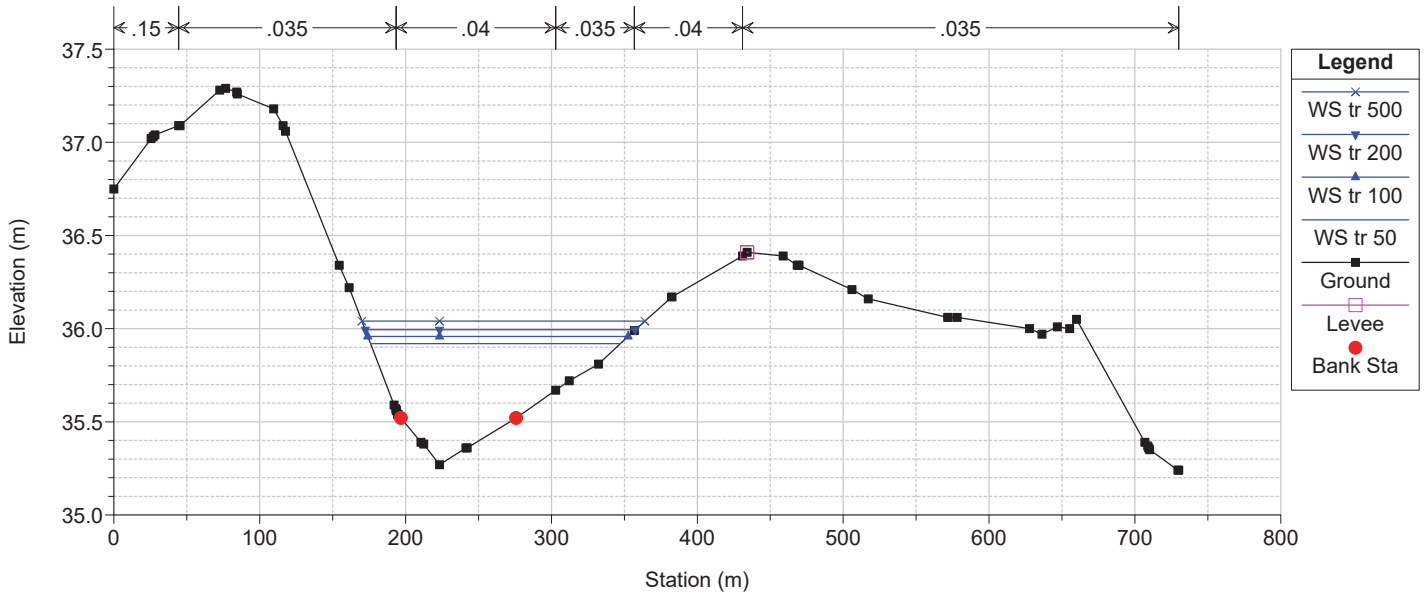
River = 090003_FIUME_743 Reach = Asta RS = 3172.377 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

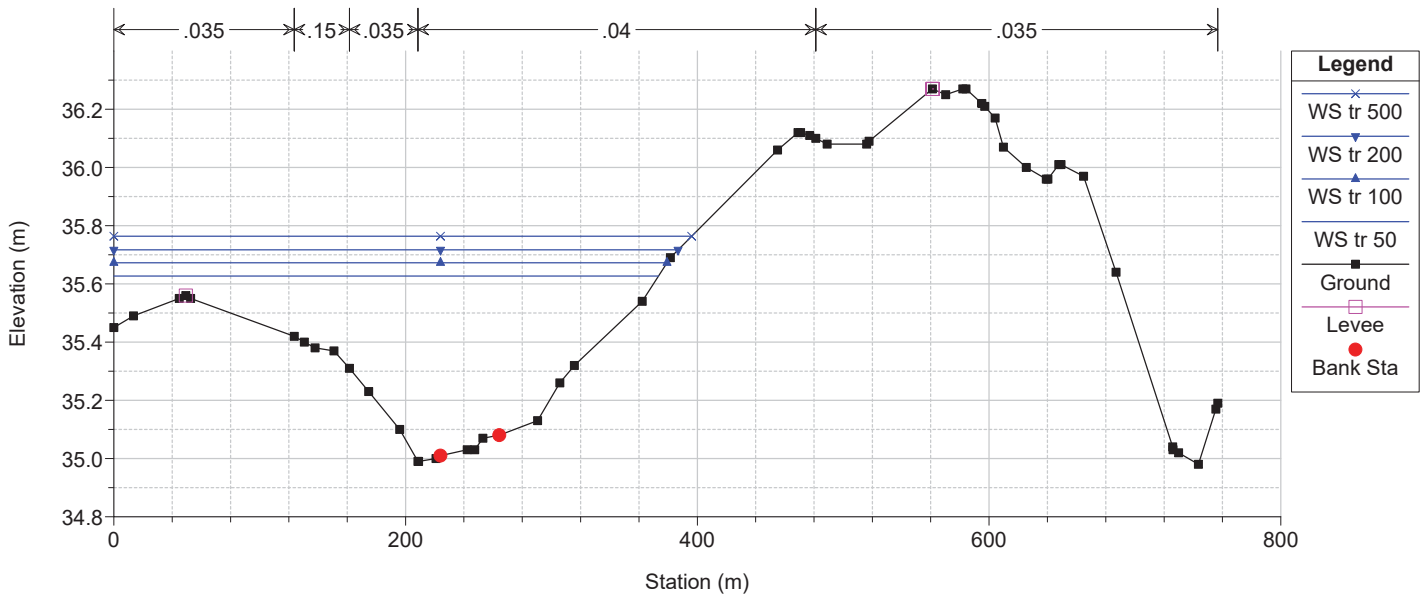
River = 090003_FIUME_743 Reach = Asta RS = 3099.786 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

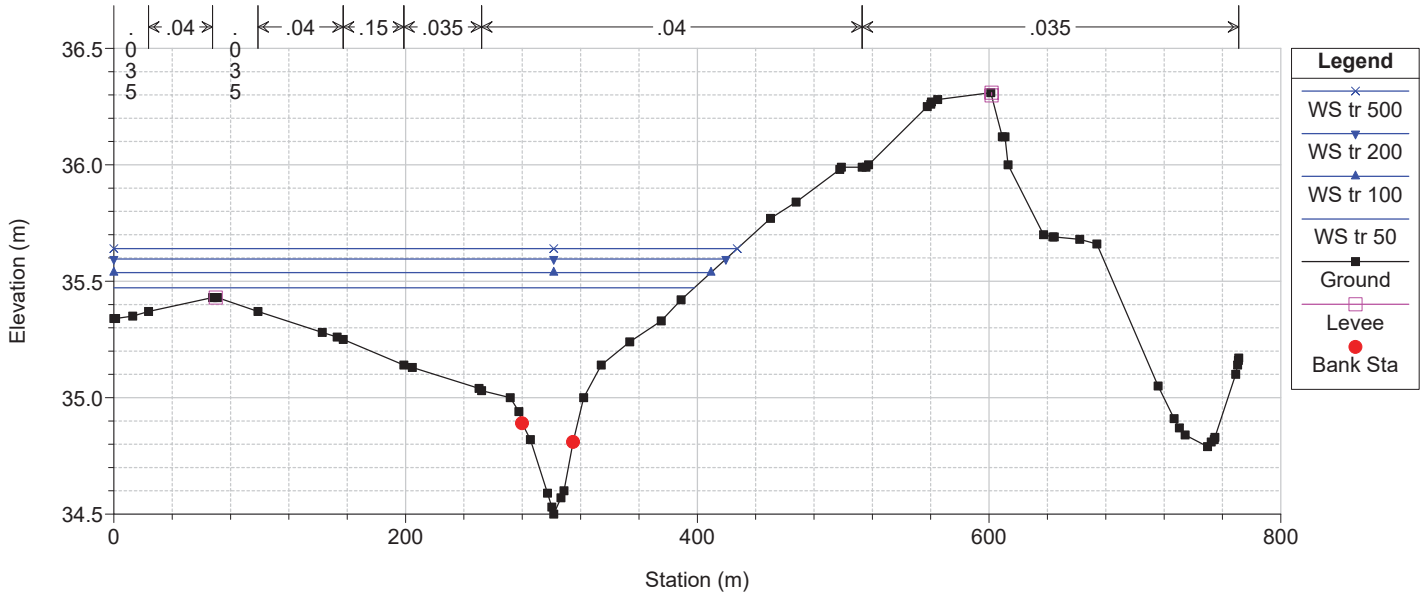
River = 090003_FIUME_743 Reach = Asta RS = 2958.043 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

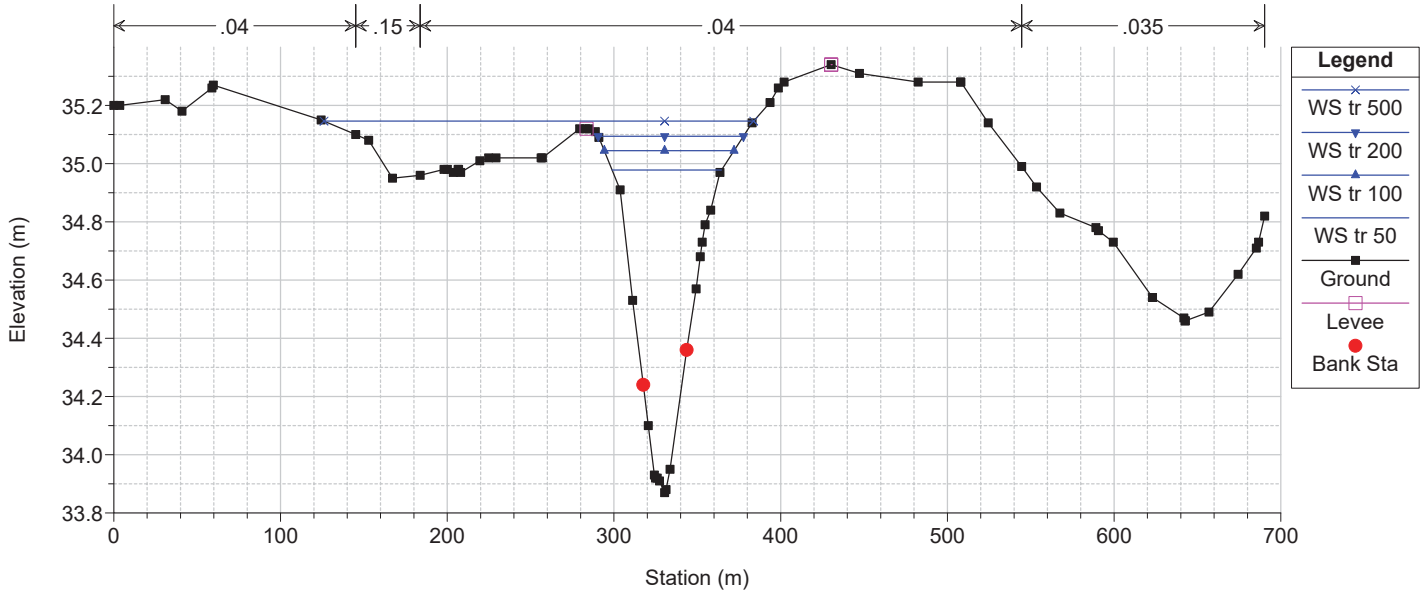
River = 090003_FIUME_743 Reach = Asta RS = 2854.964 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

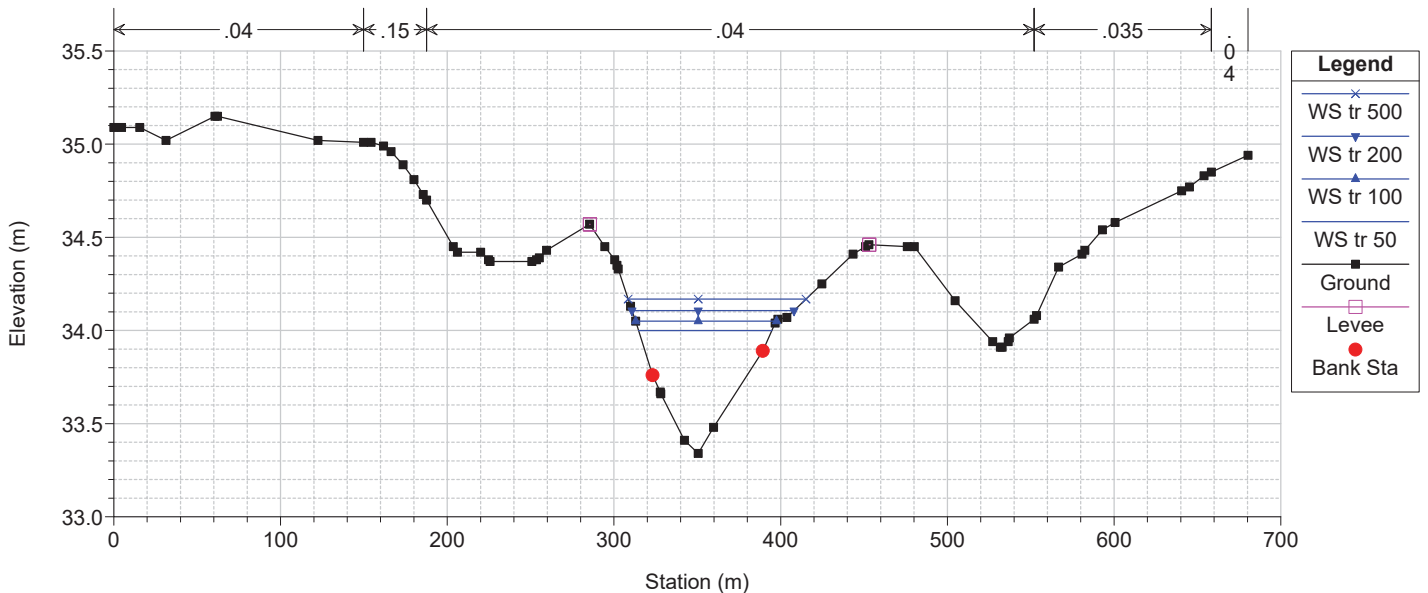
River = 090003_FIUME_743 Reach = Asta RS = 2726.11 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

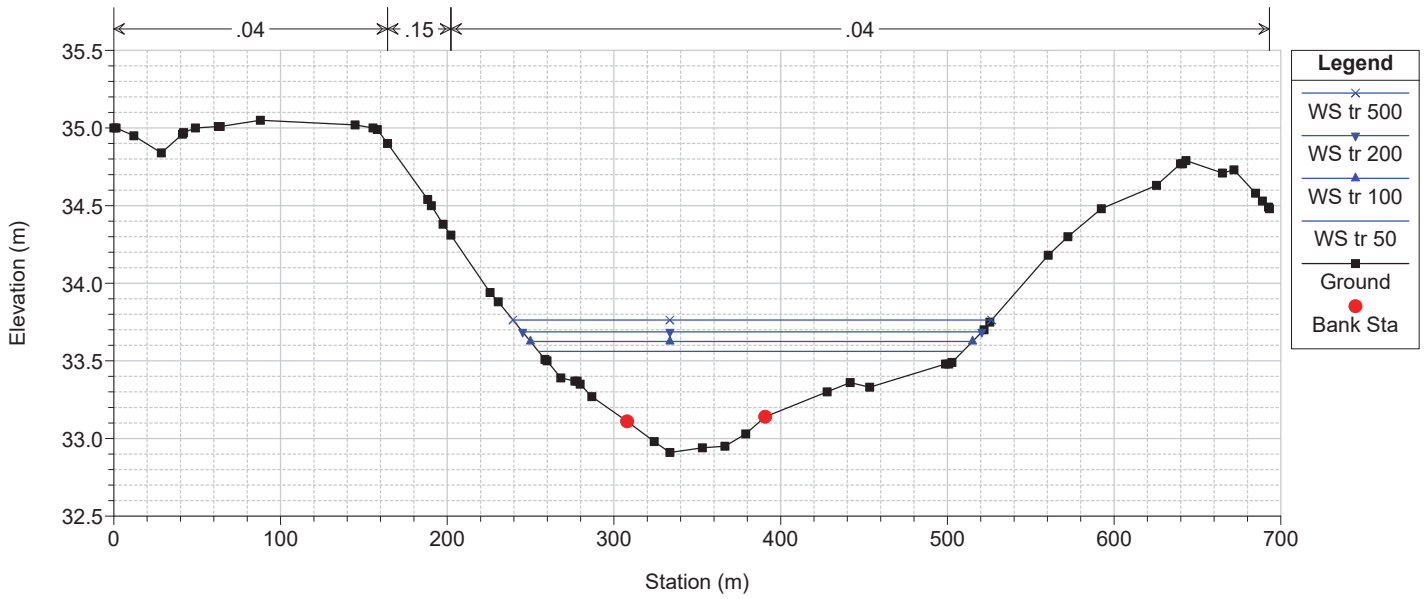
River = 090003_FIUME_743 Reach = Asta RS = 2634.18 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

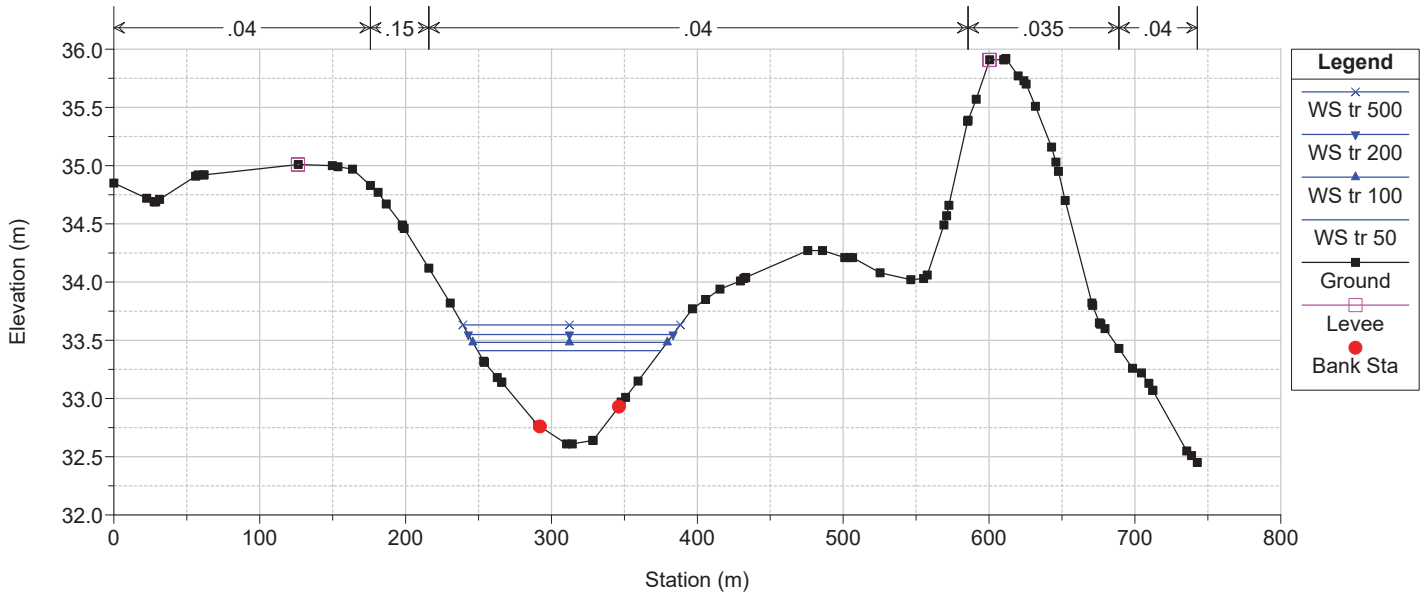
River = 090003_FIUME_743 Reach = Asta RS = 2551.568 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

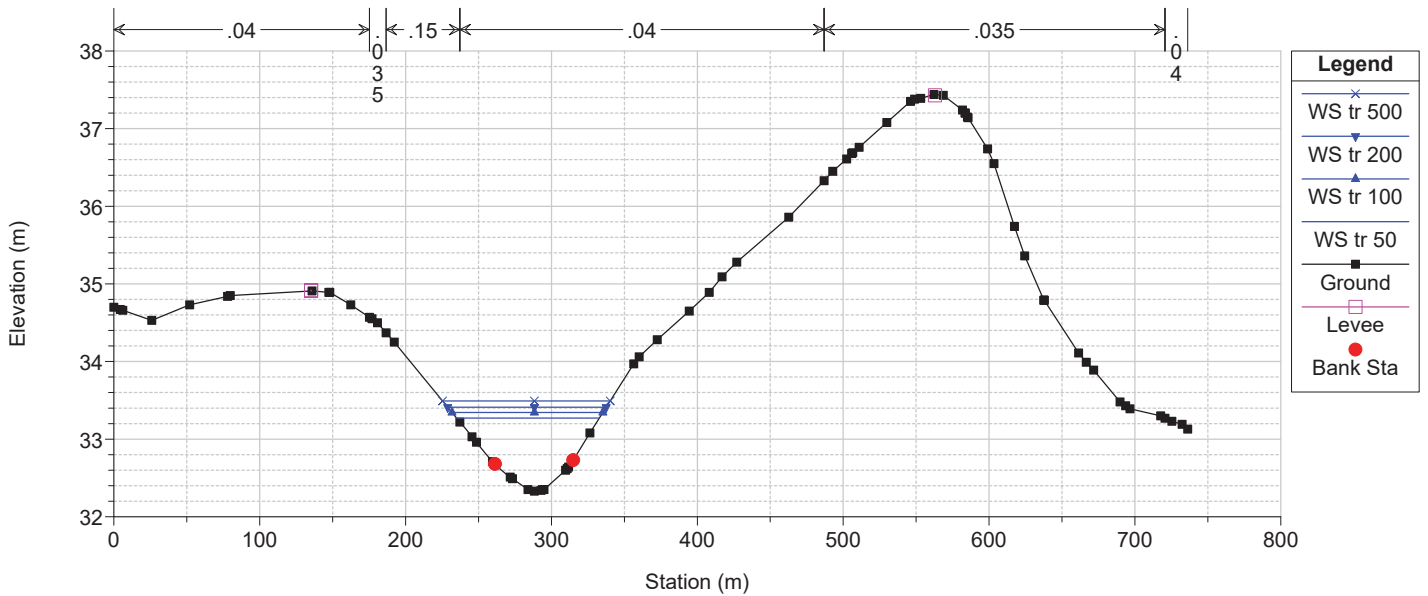
River = 090003_FIUME_743 Reach = Asta RS = 2503.028 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

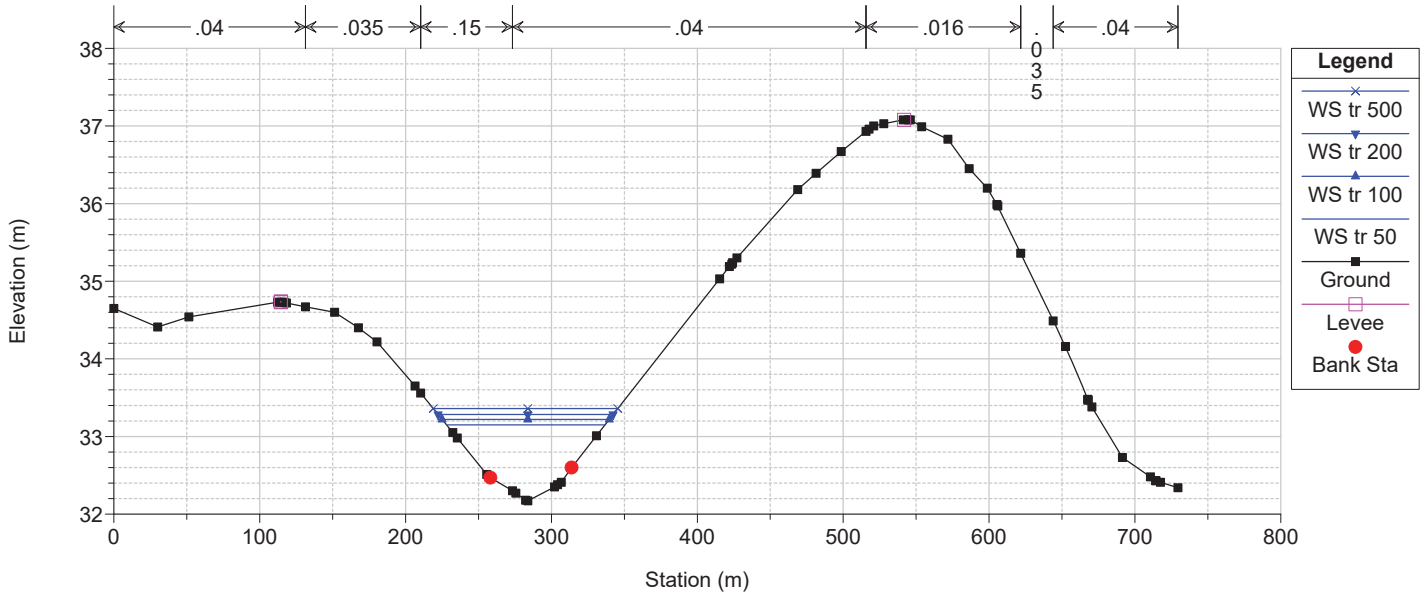
River = 090003_FIUME_743 Reach = Asta RS = 2457.485 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

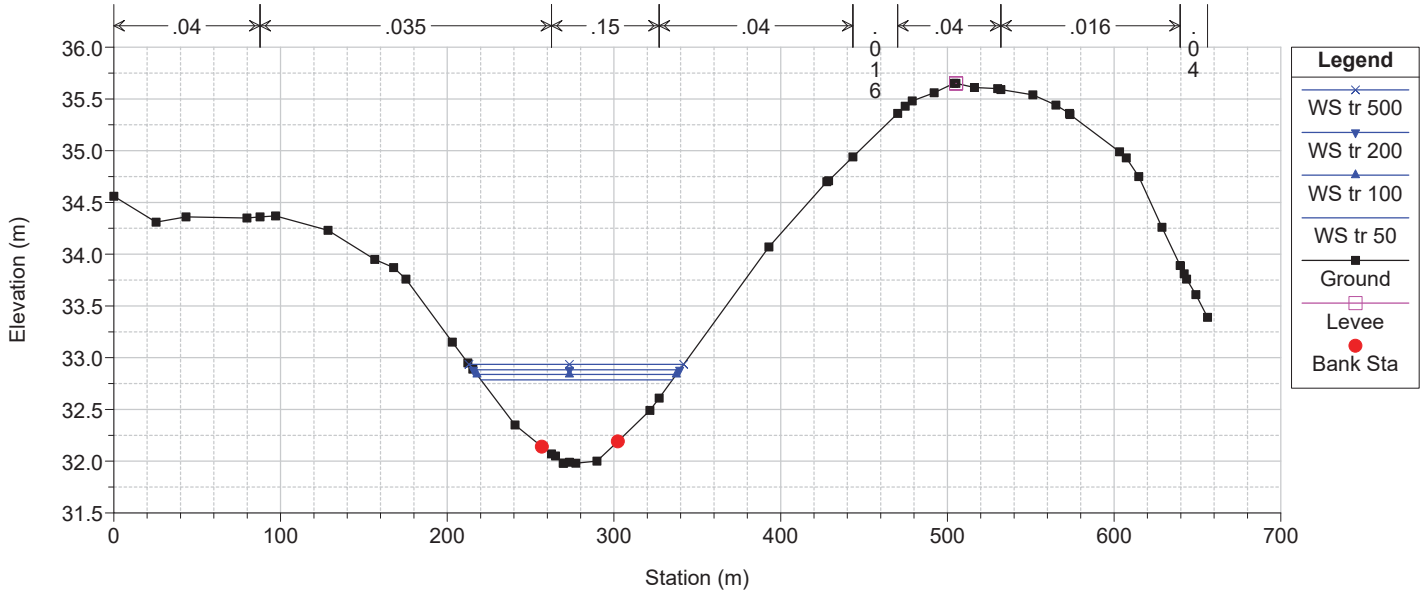
River = 090003_FIUME_743 Reach = Asta RS = 2418.079 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

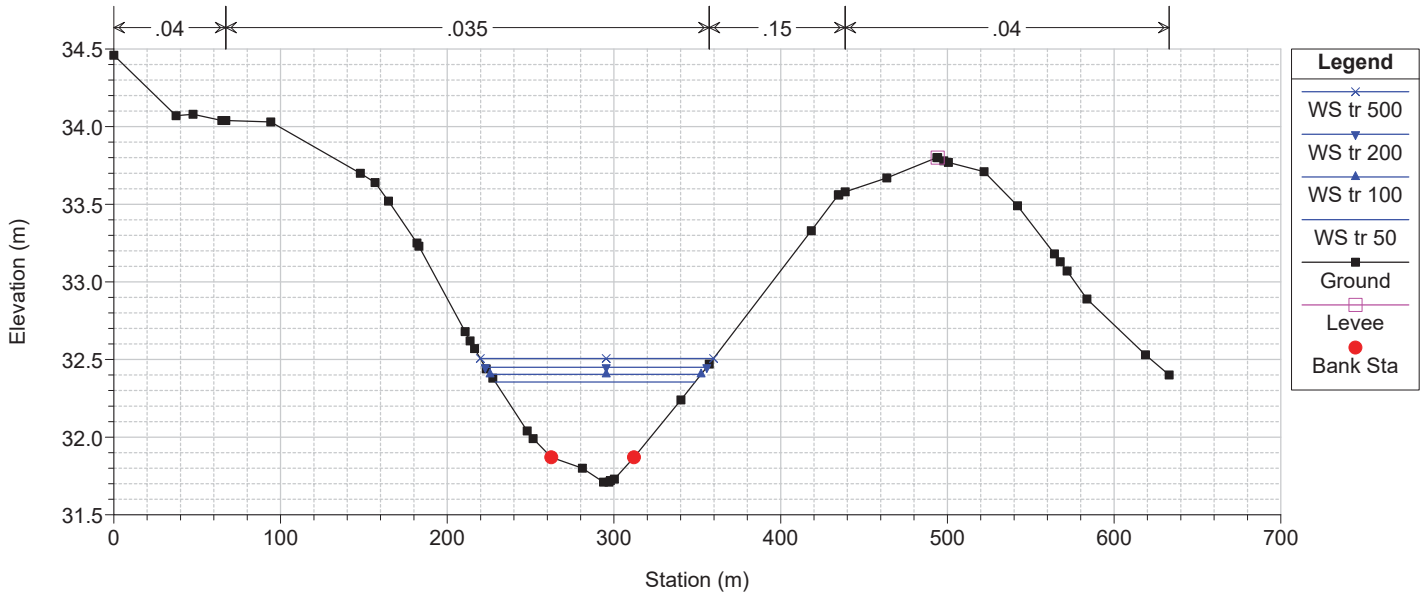
River = 090003_FIUME_743 Reach = Asta RS = 2362.845 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

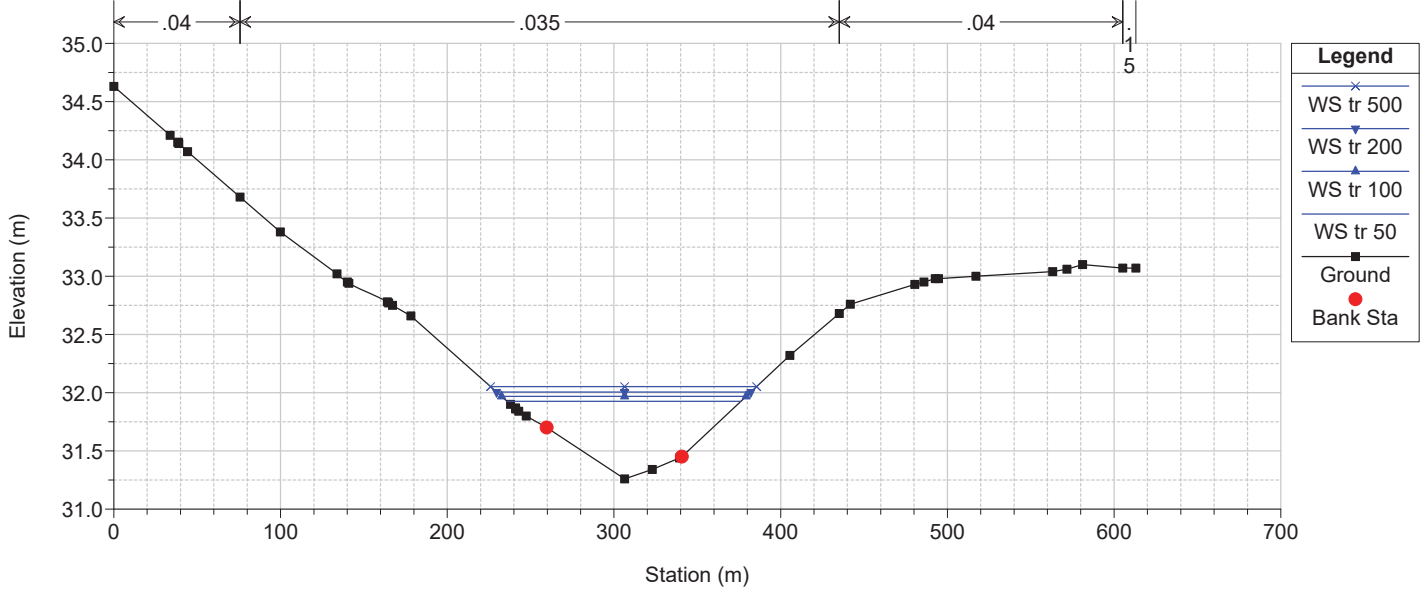
River = 090003_FIUME_743 Reach = Asta RS = 2311.334 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

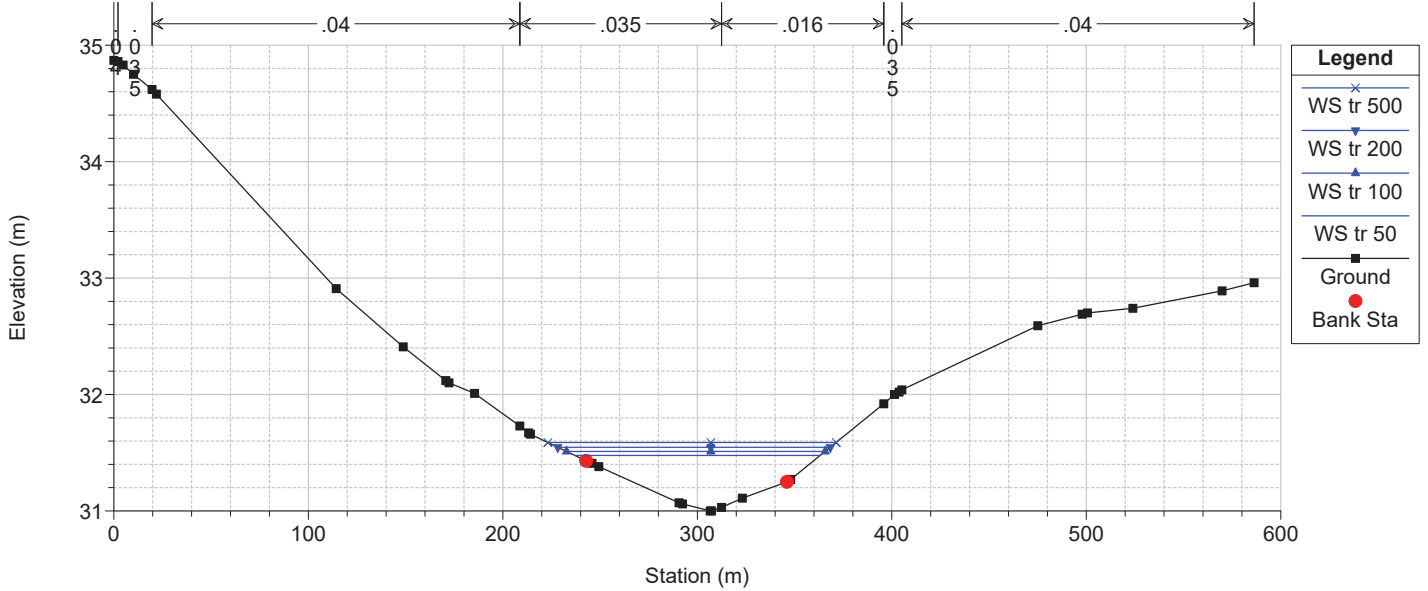
River = 090003_FIUME_743 Reach = Asta RS = 2219.61 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

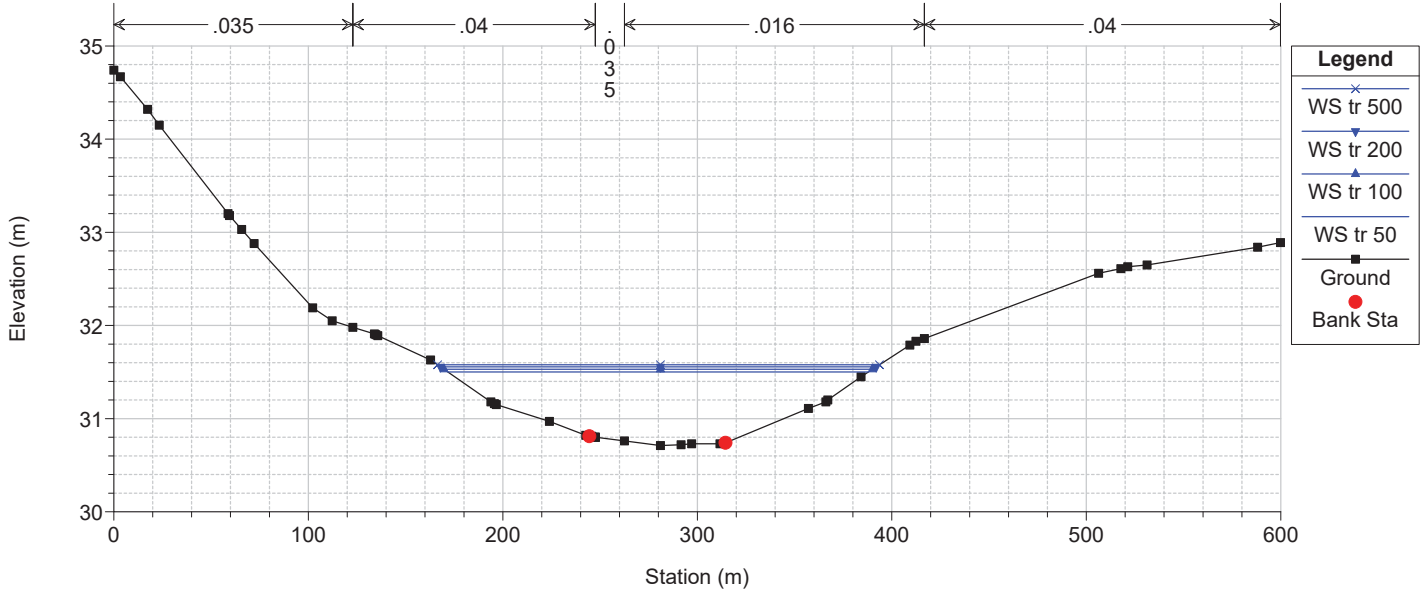
River = 090003_FIUME_743 Reach = Asta RS = 2155.33 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

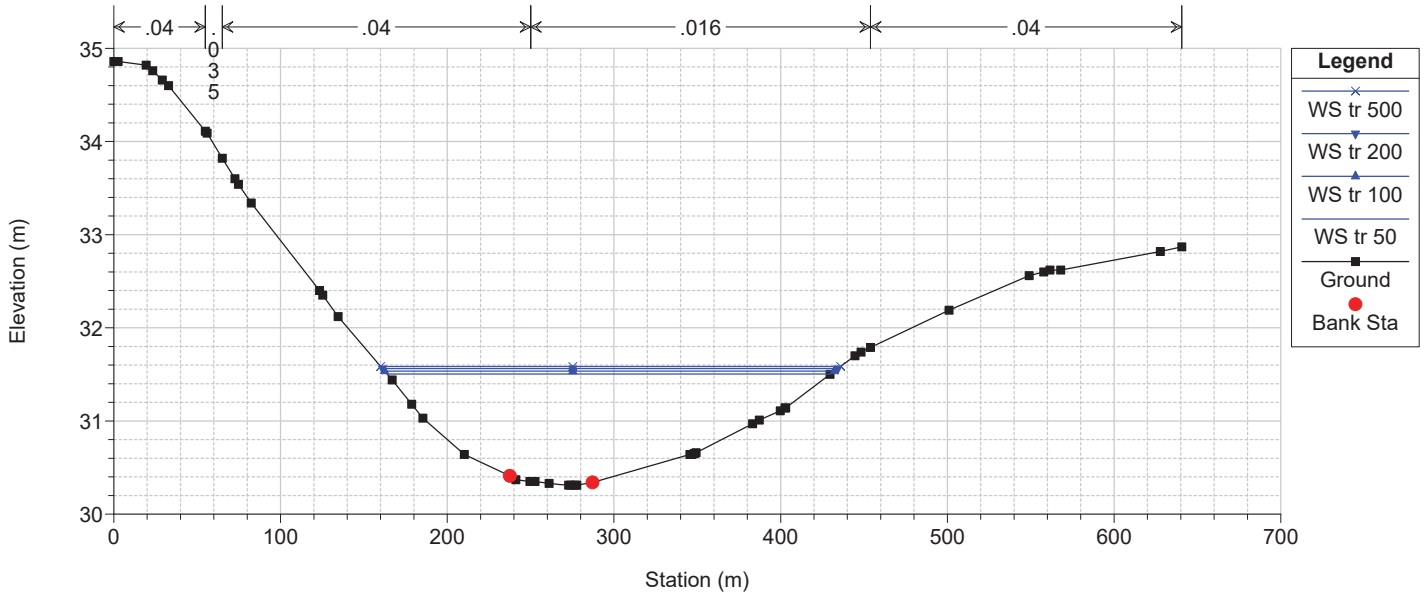
River = 090003_FIUME_743 Reach = Asta RS = 2069.327 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

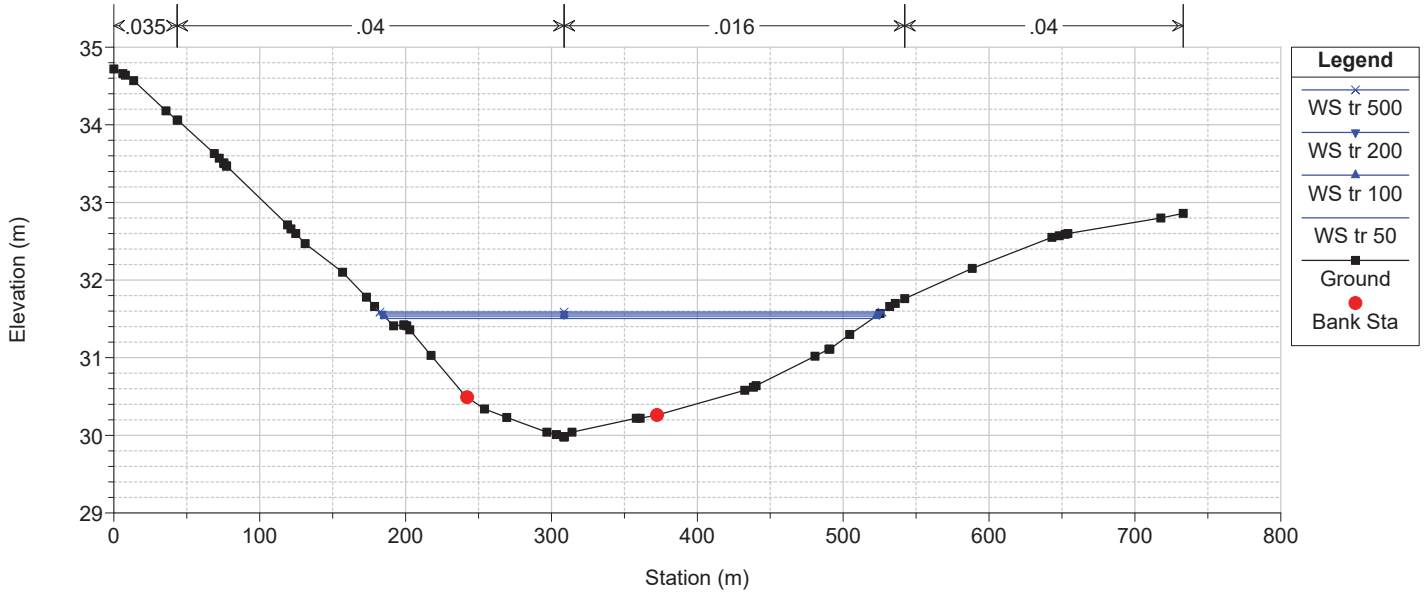
River = 090003_FIUME_743 Reach = Asta RS = 2002.043 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

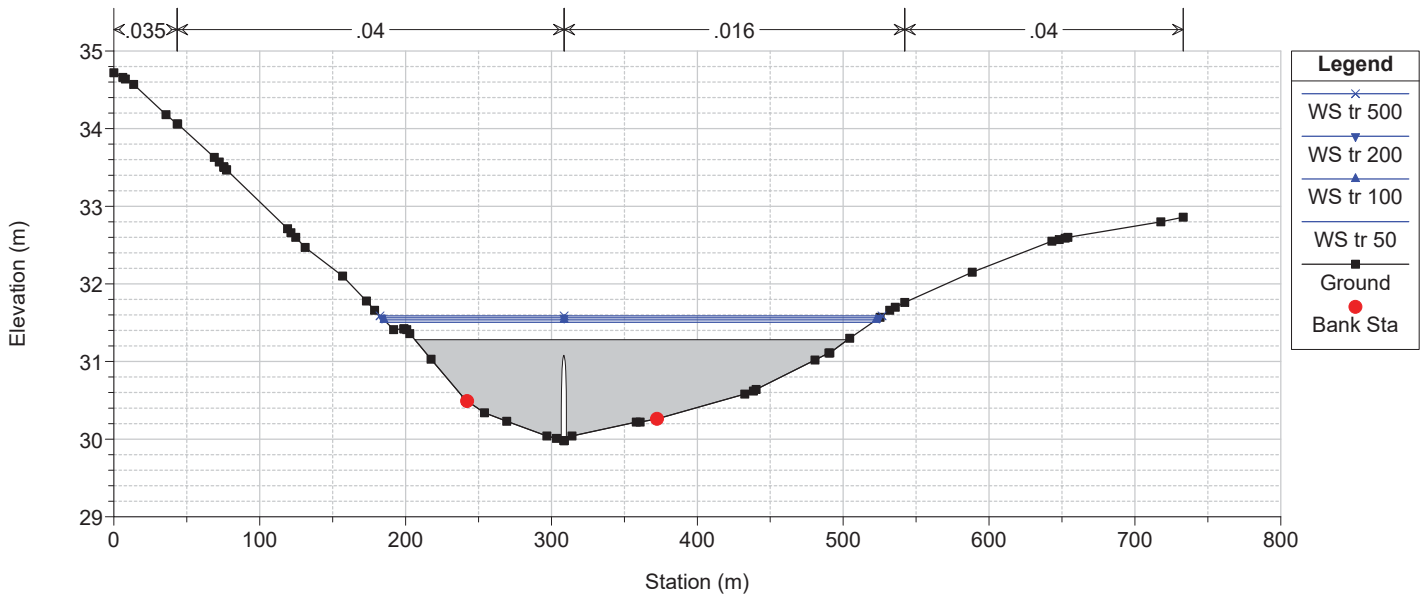
River = 090003_FIUME_743 Reach = Asta RS = 1942.498 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

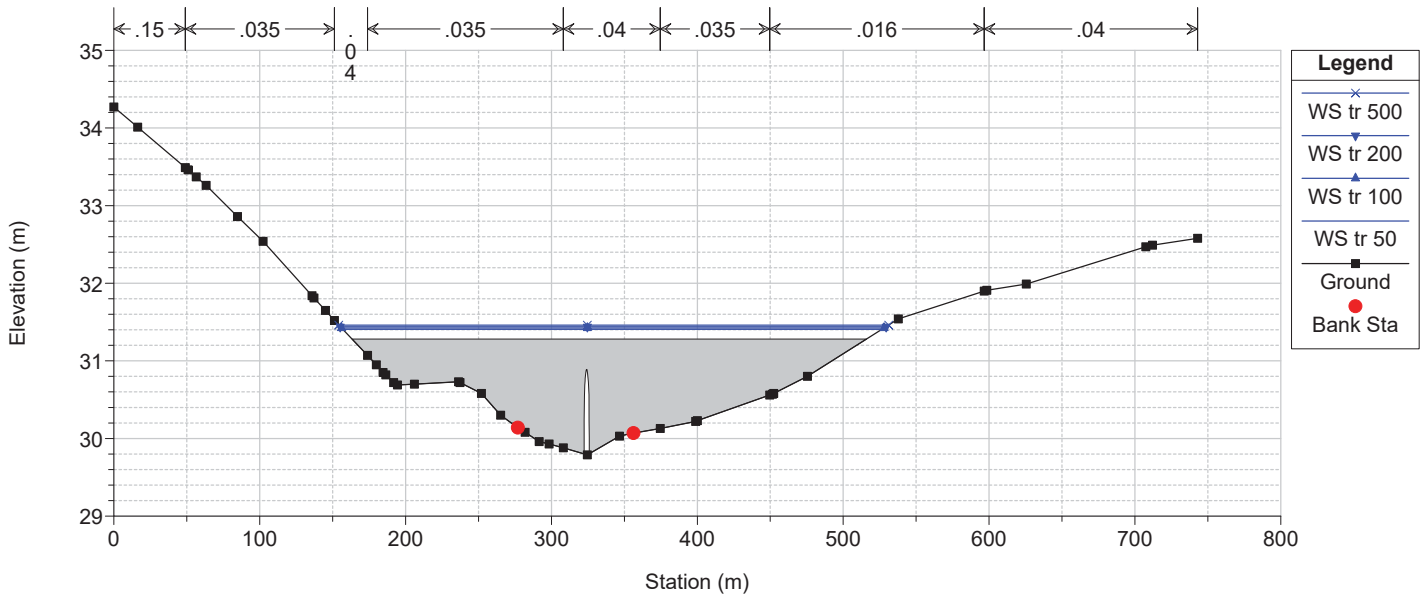
River = 090003_FIUME_743 Reach = Asta RS = 1912.371 Culv COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

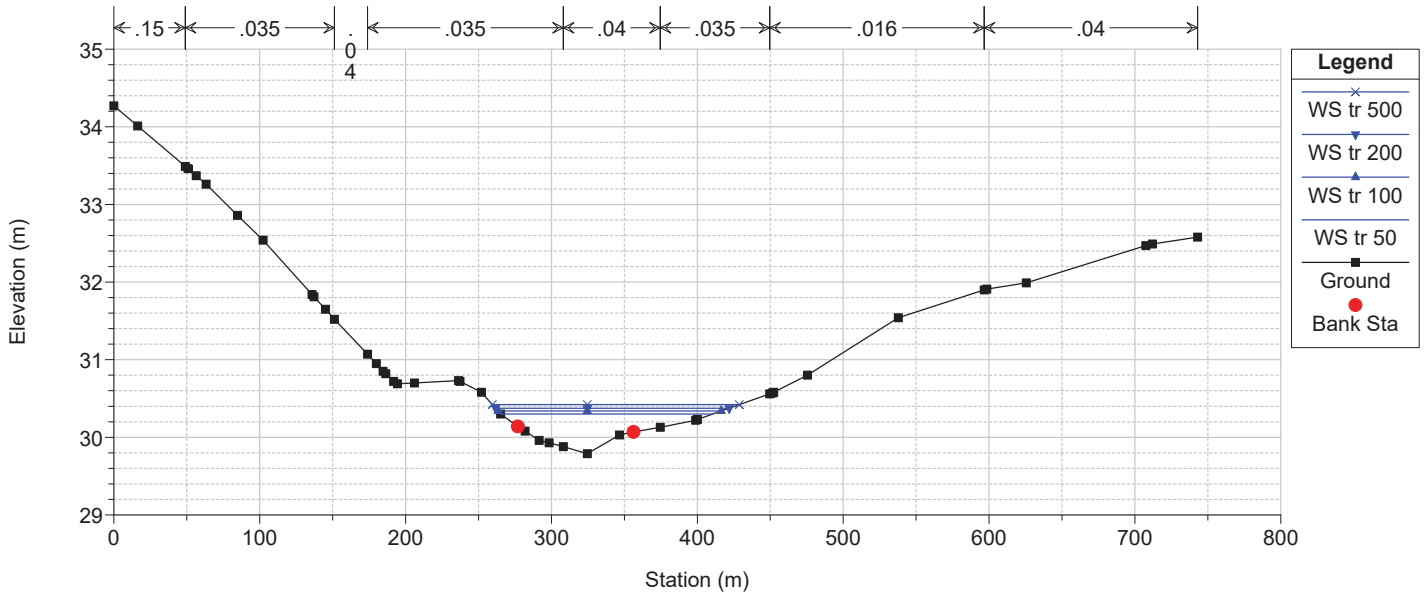
River = 090003_FIUME_743 Reach = Asta RS = 1912.371 Culv COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

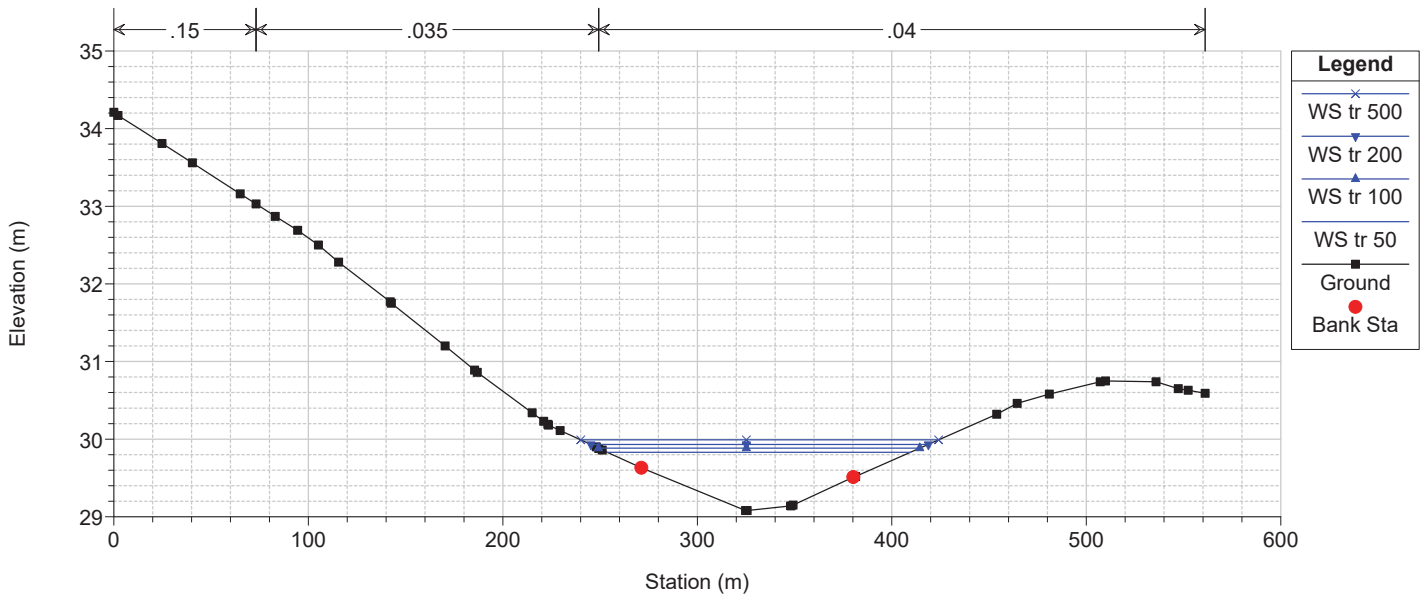
River = 090003_FIUME_743 Reach = Asta RS = 1882.45 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

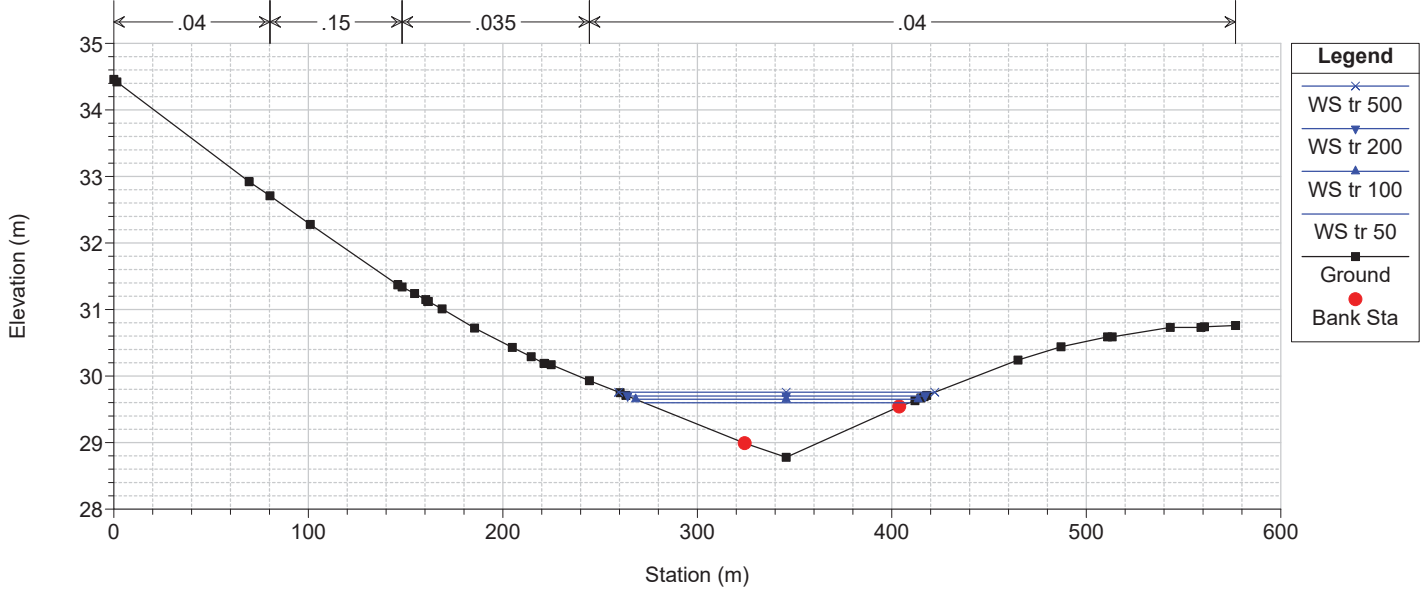
River = 090003_FIUME_743 Reach = Asta RS = 1792.5 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

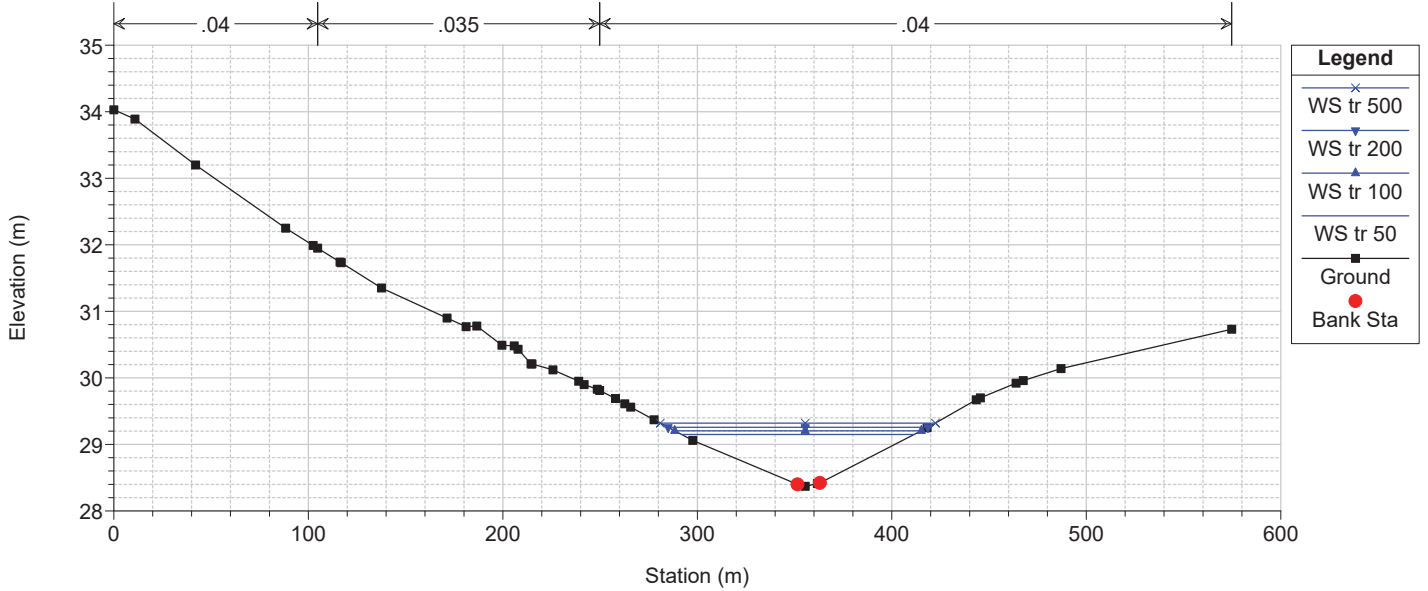
River = 090003_FIUME_743 Reach = Asta RS = 1732.273 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

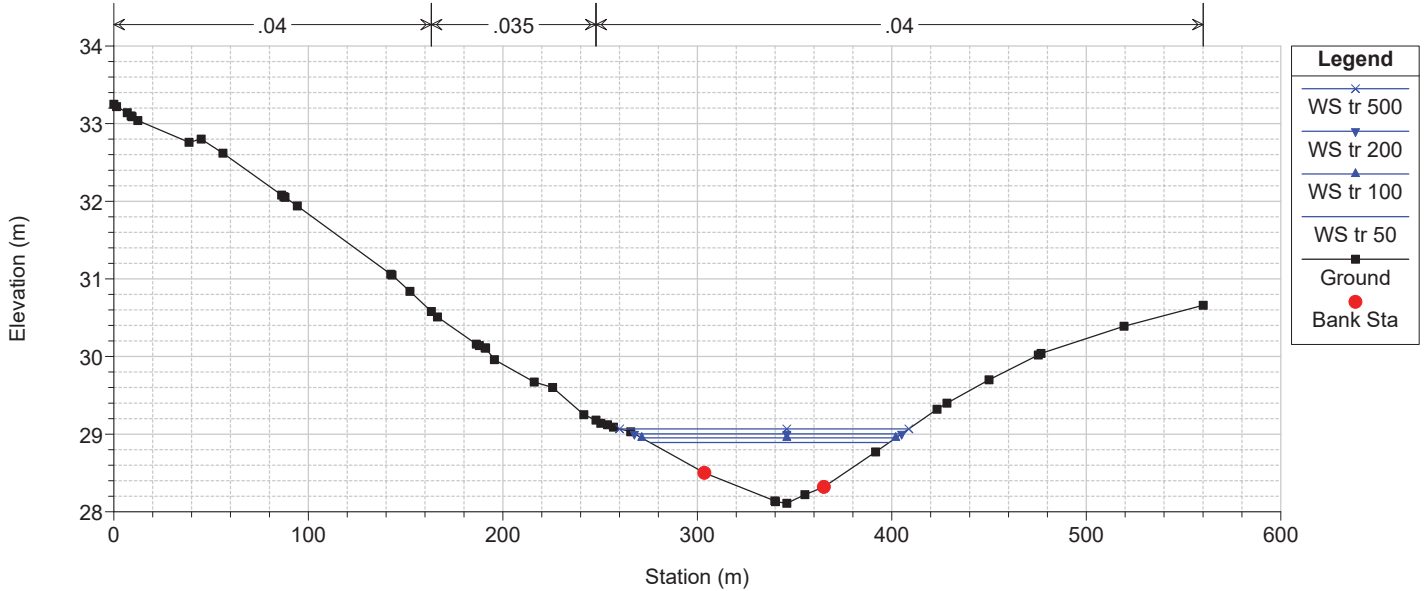
River = 090003_FIUME_743 Reach = Asta RS = 1650.039 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

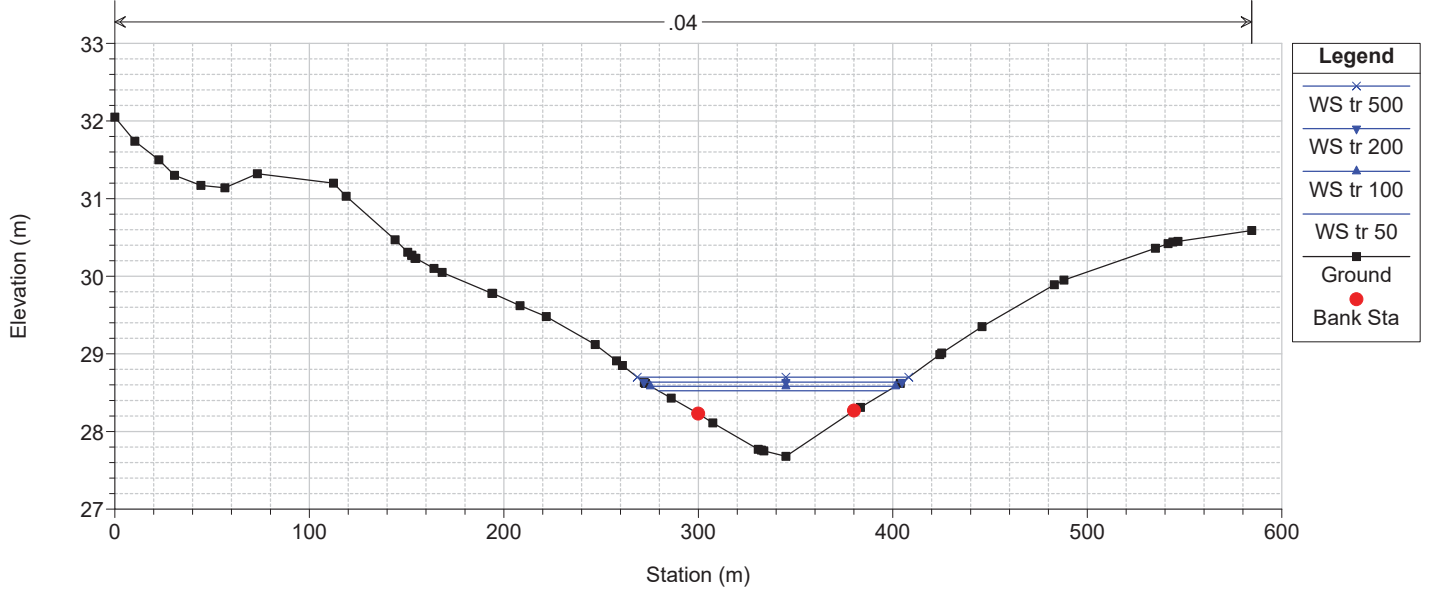
River = 090003_FIUME_743 Reach = Asta RS = 1597.917 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

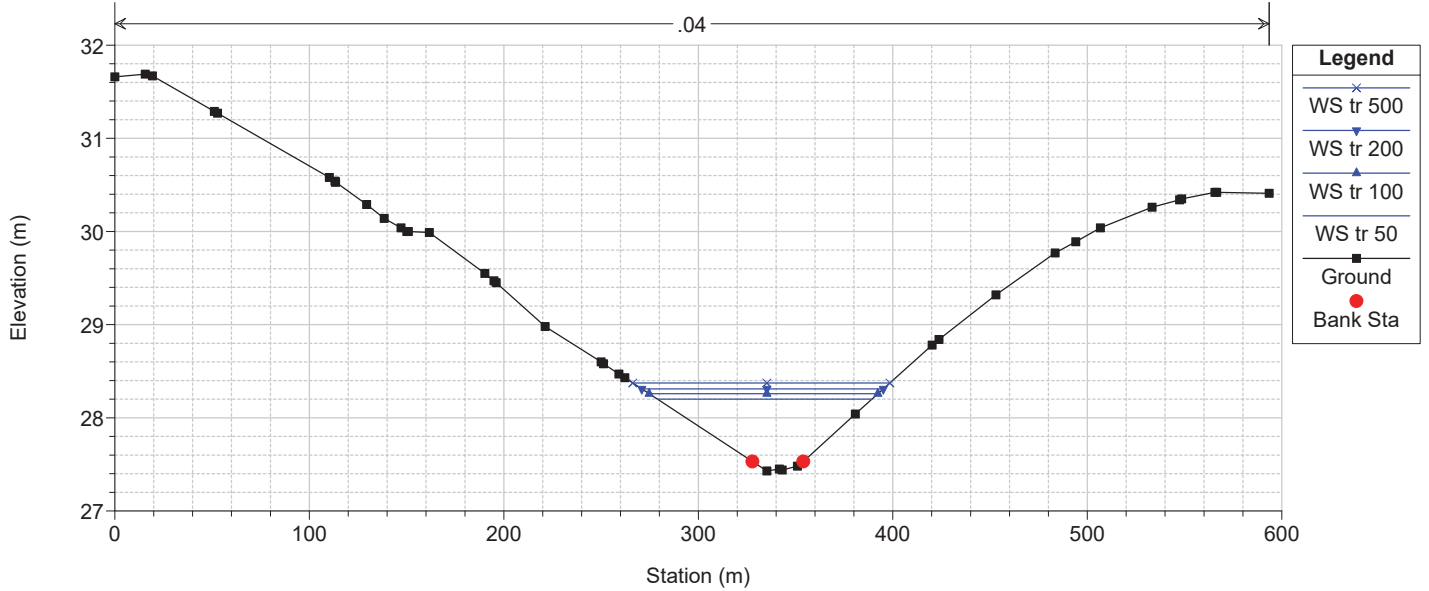
River = 090003_FIUME_743 Reach = Asta RS = 1509.779 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

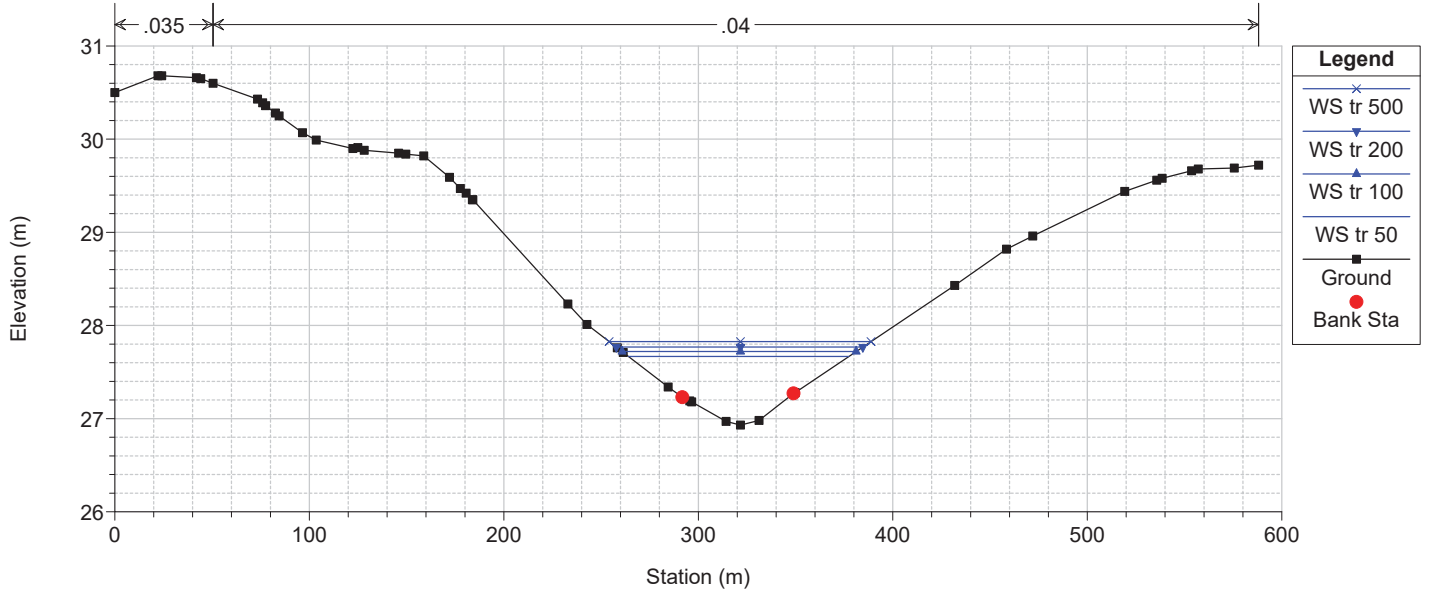
River = 090003_FIUME_743 Reach = Asta RS = 1448.047 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

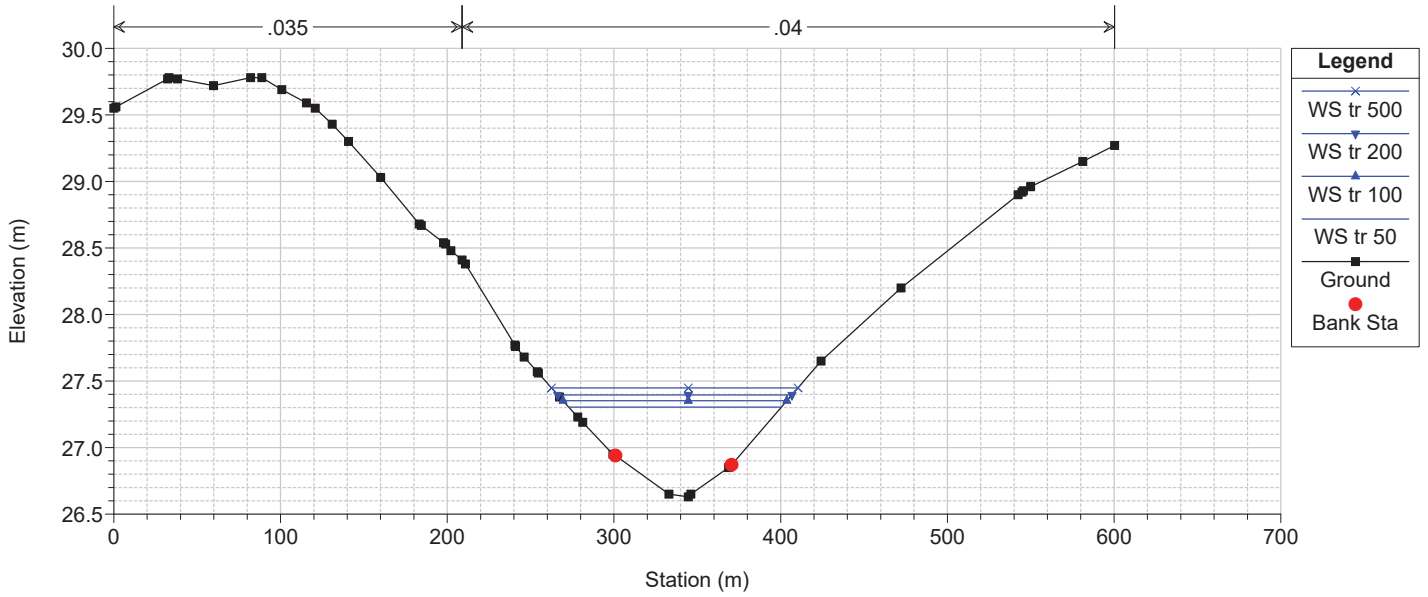
River = 090003_FIUME_743 Reach = Asta RS = 1357.417 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

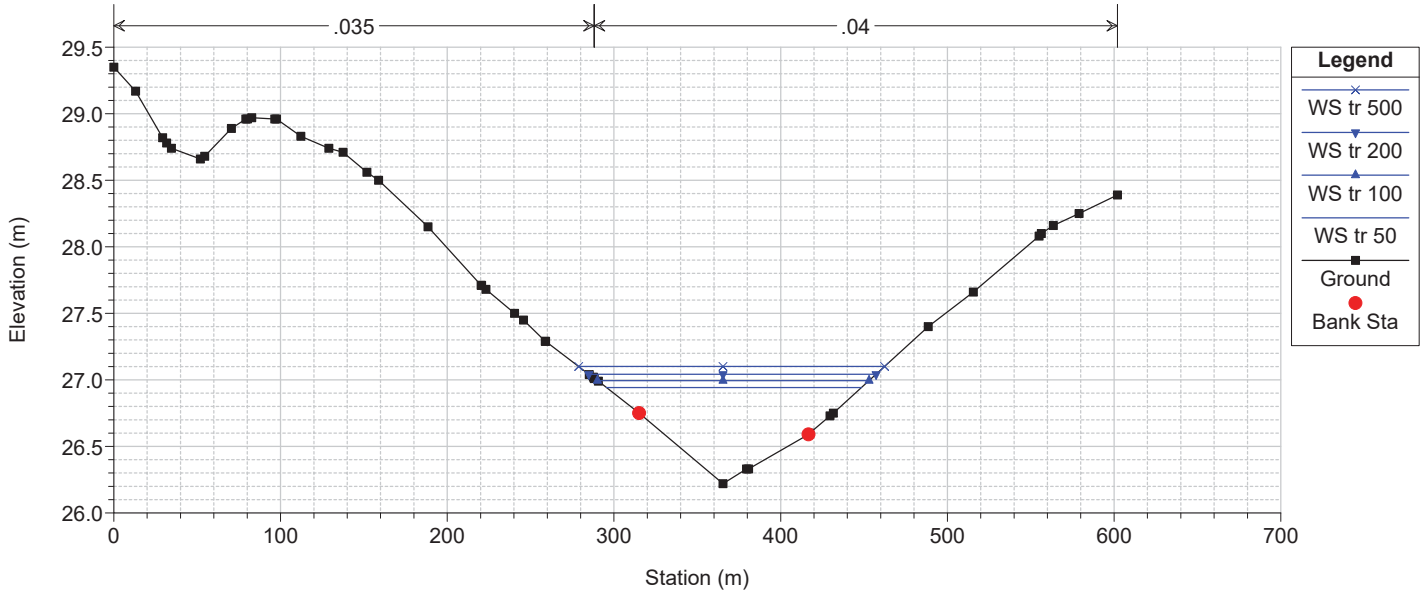
River = 090003_FIUME_743 Reach = Asta RS = 1292.359 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

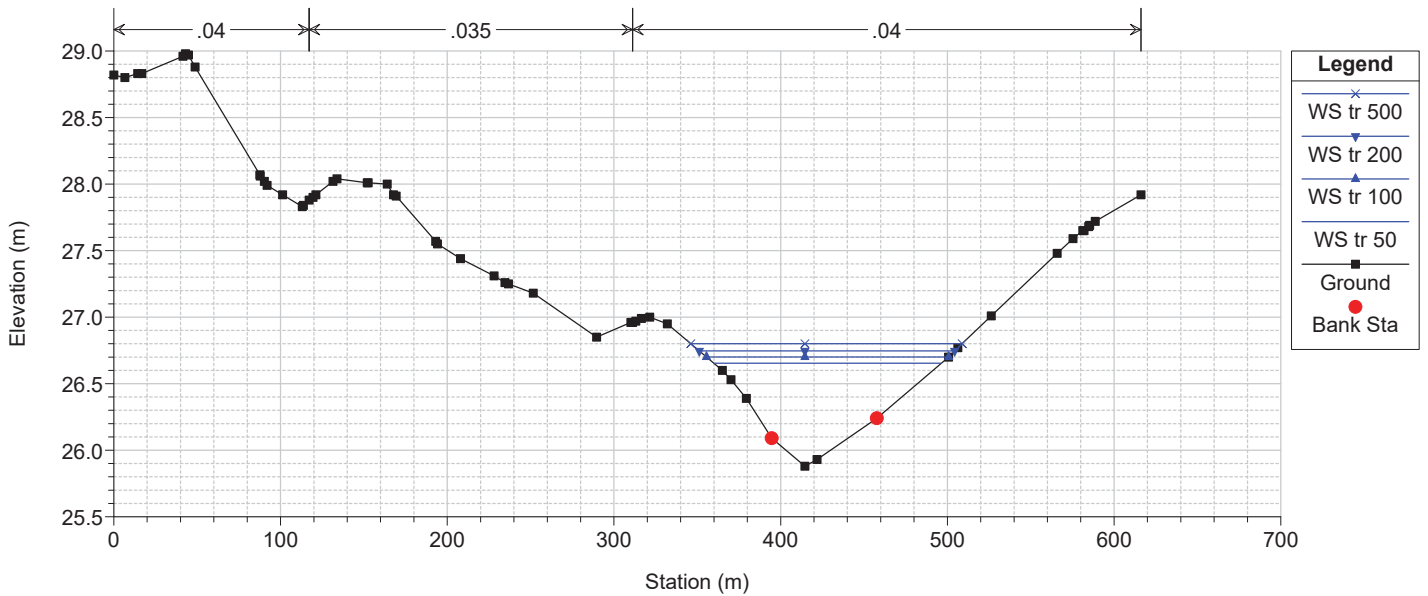
River = 090003_FIUME_743 Reach = Asta RS = 1214.755 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

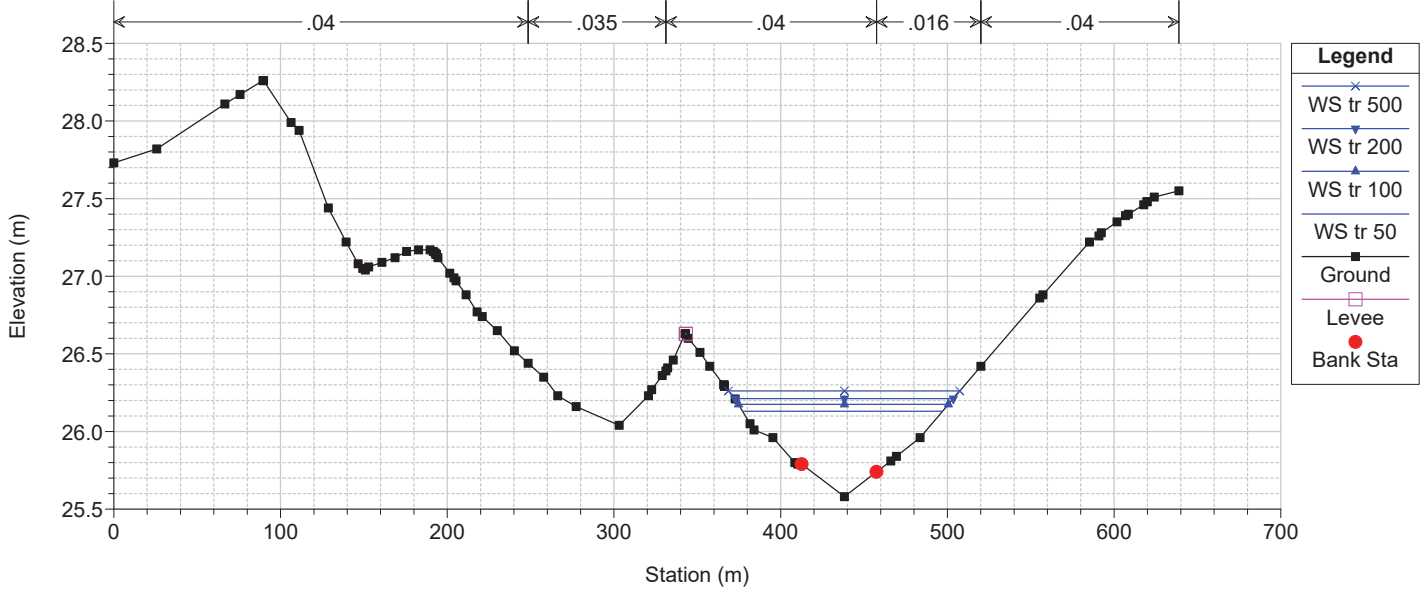
River = 090003_FIUME_743 Reach = Asta RS = 1148.48 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

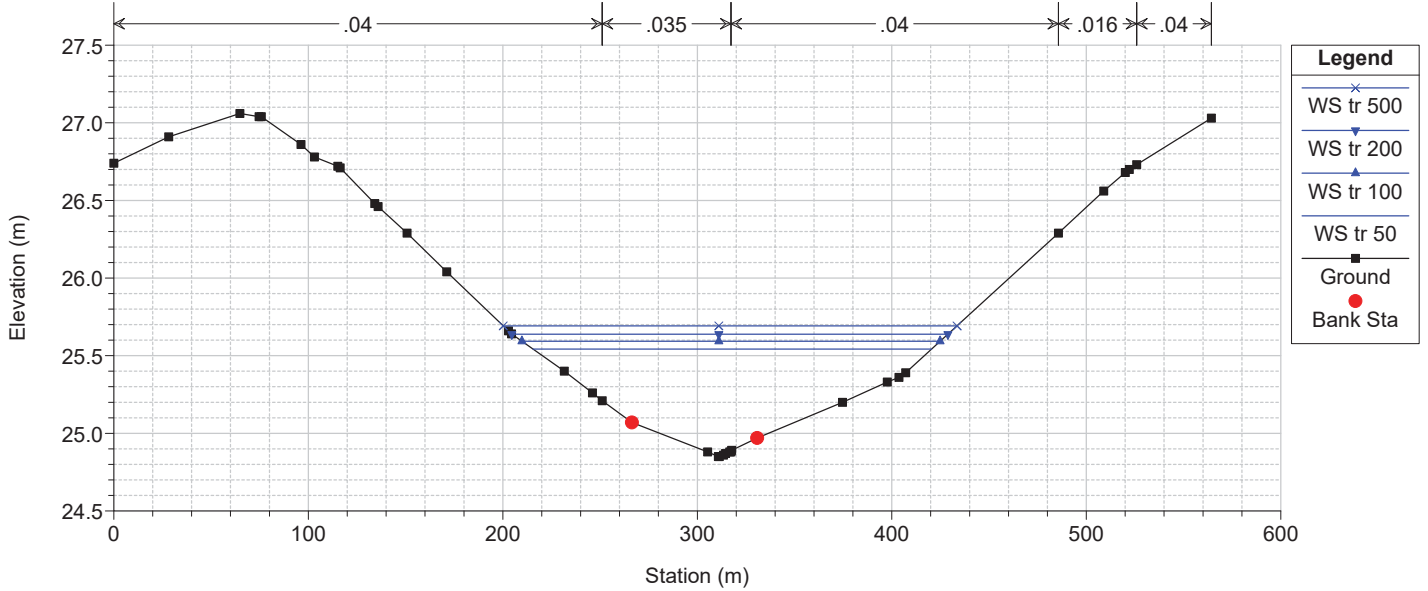
River = 090003_FIUME_743 Reach = Asta RS = 1080.733 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

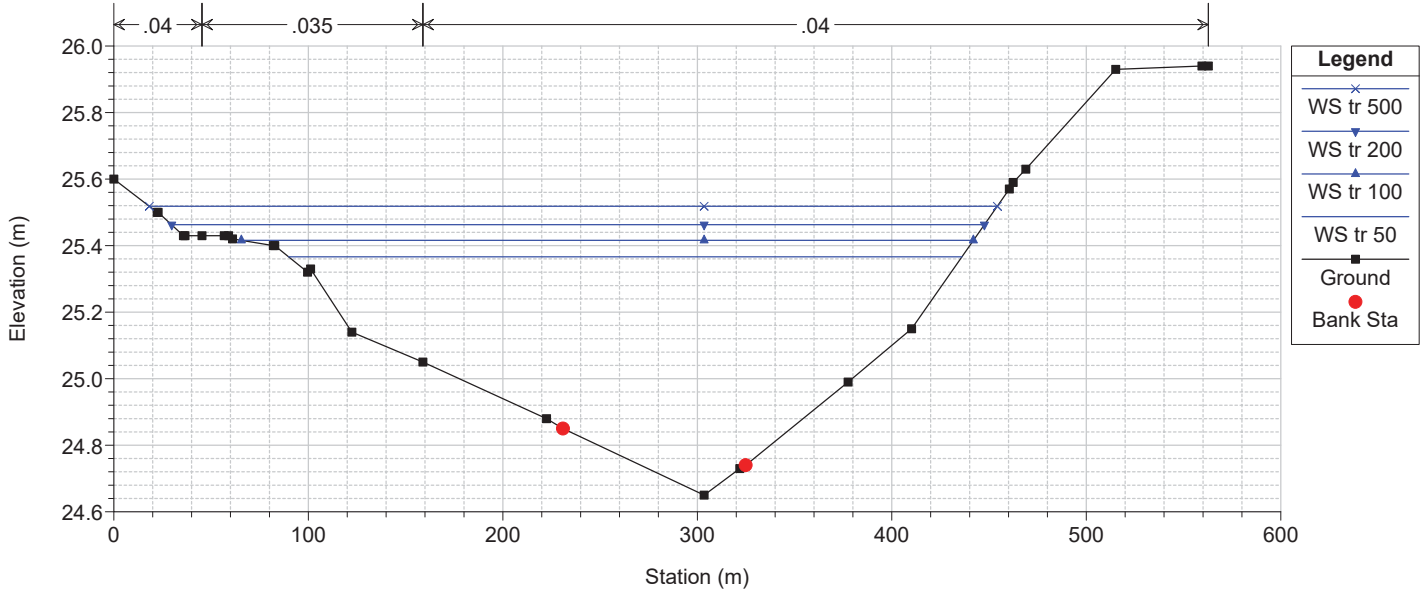
River = 090003_FIUME_743 Reach = Asta RS = 942.0653 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

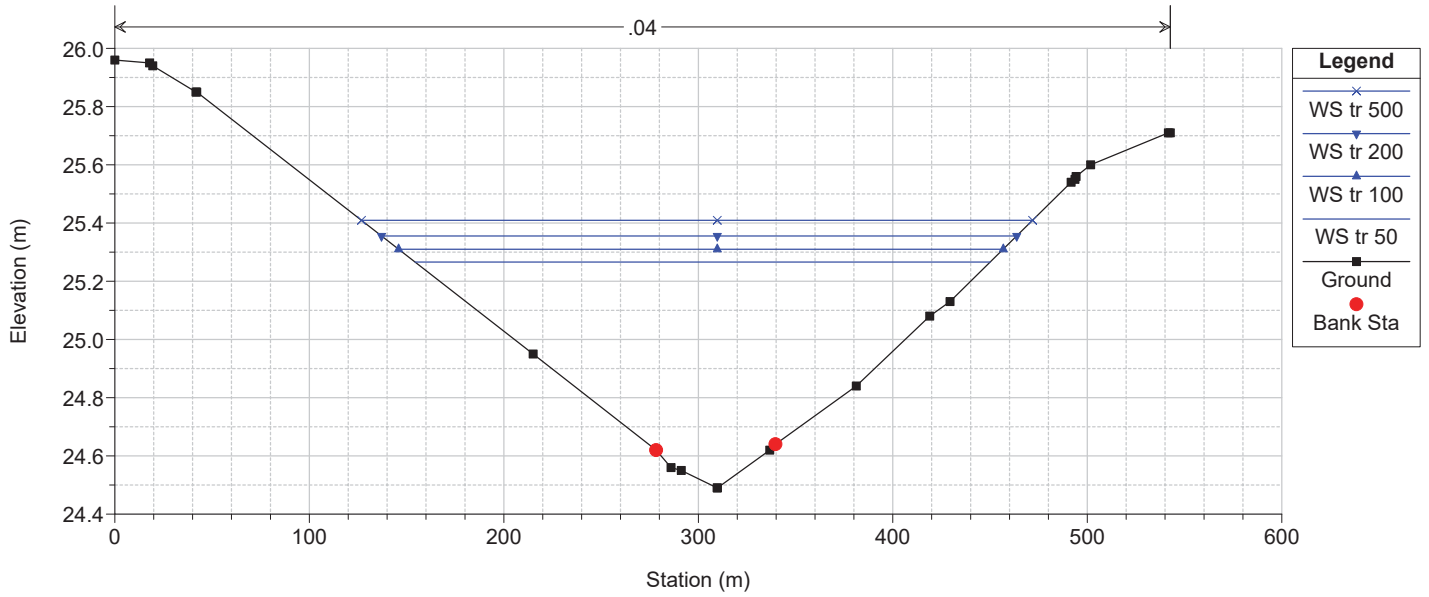
River = 090003_FIUME_743 Reach = Asta RS = 768.963 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

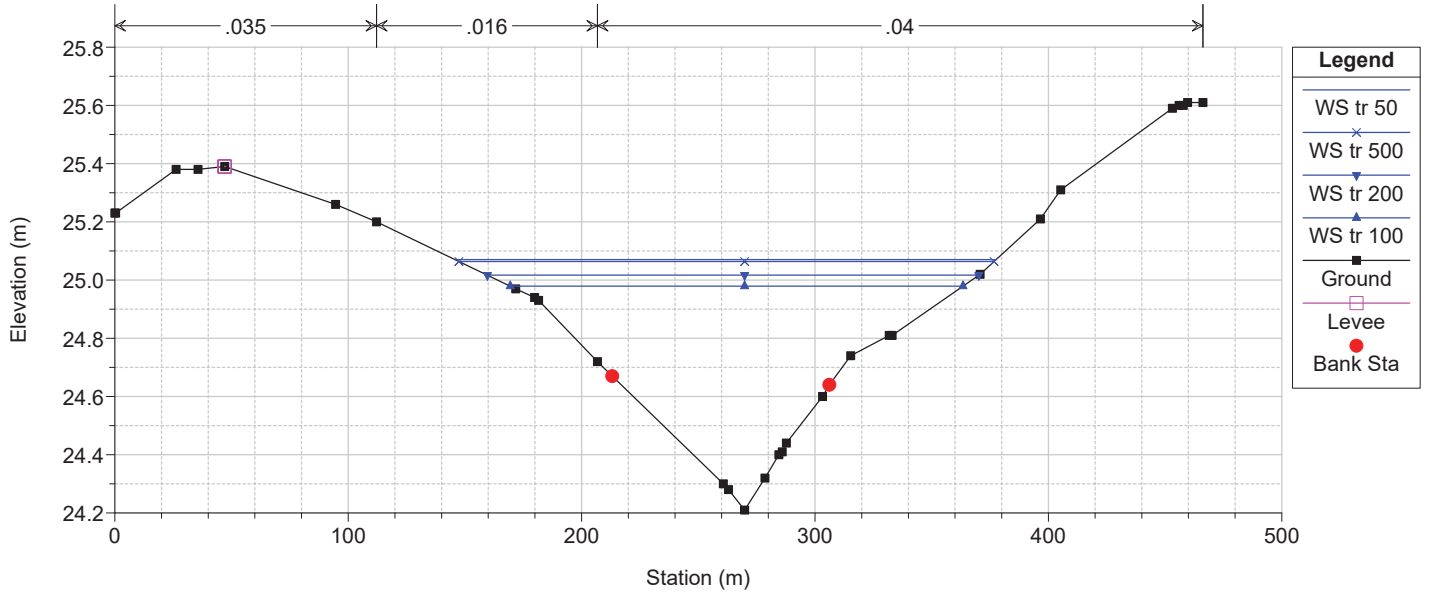
River = 090003_FIUME_743 Reach = Asta RS = 652.3372 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

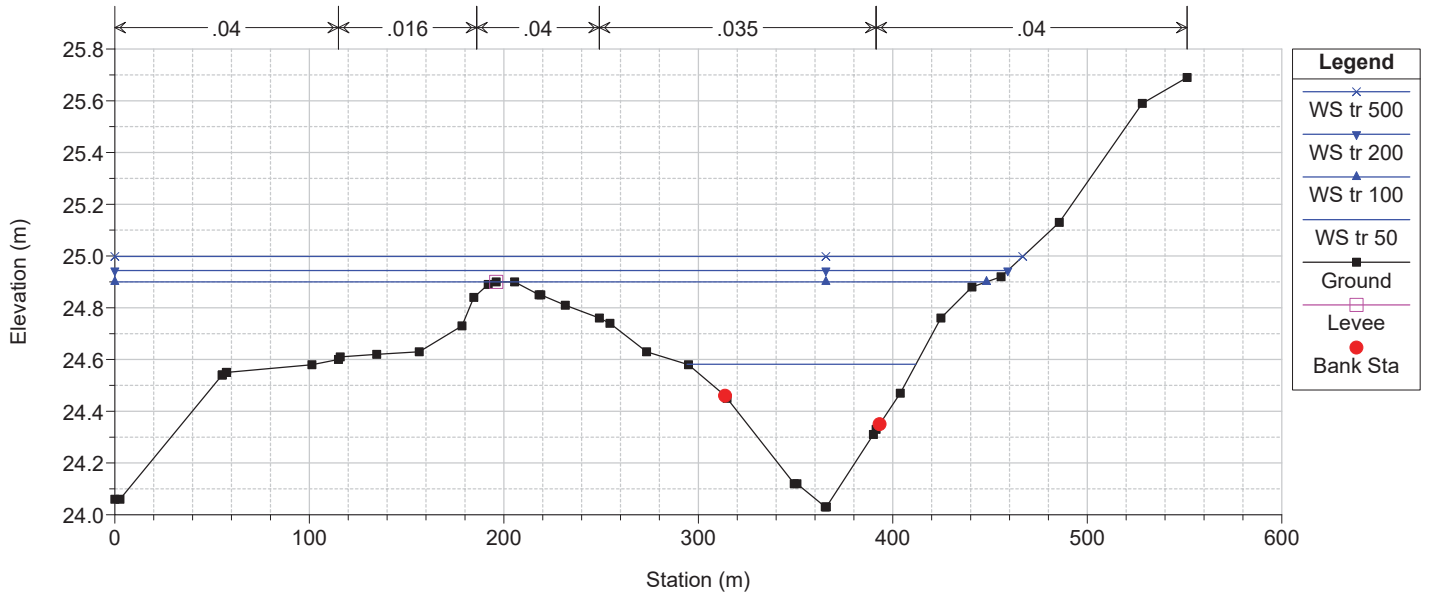
River = 090003_FIUME_743 Reach = Asta RS = 504.5828 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

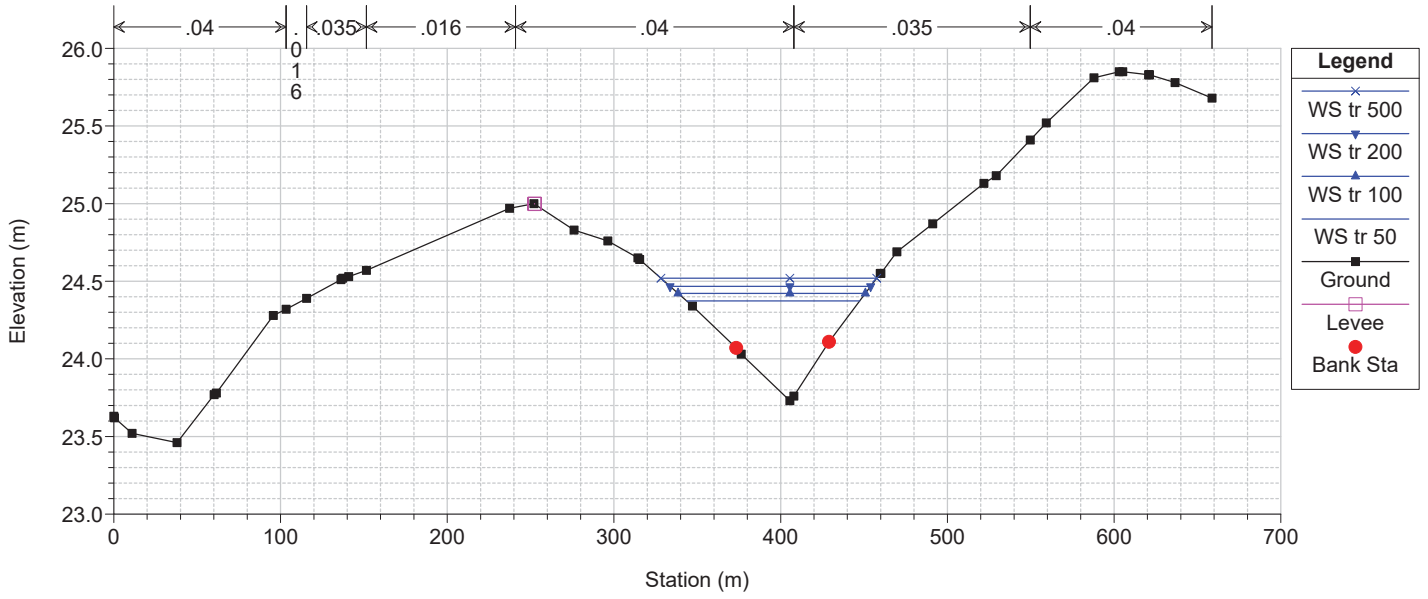
River = 090003_FIUME_743 Reach = Asta RS = 412.4449 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



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	0.000036	0.36	205.92	266.05	0.11
Asta	2002.043	tr 100	65.93	30.31	31.53		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	0.000056	0.46	221.46	273.09	0.13
Asta	2002.043	tr 500	90.28	30.31	31.59		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

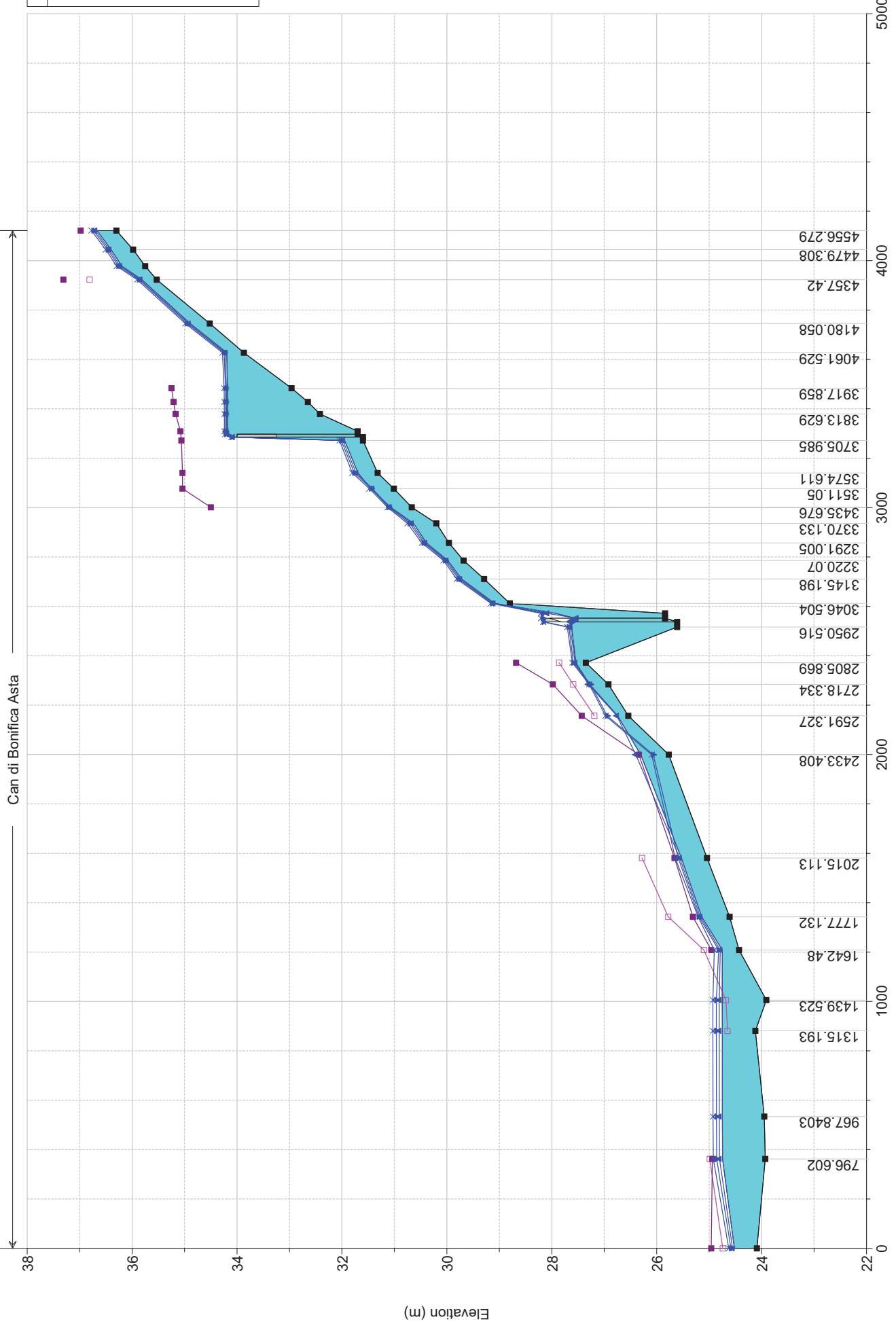
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Asta	1942.498	tr 500	90.28	29.98	31.59	30.53	31.59	0.000028	0.29	335.60	344.08	0.08
Asta	1912.371		Culvert									
Asta	1882.45	tr 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

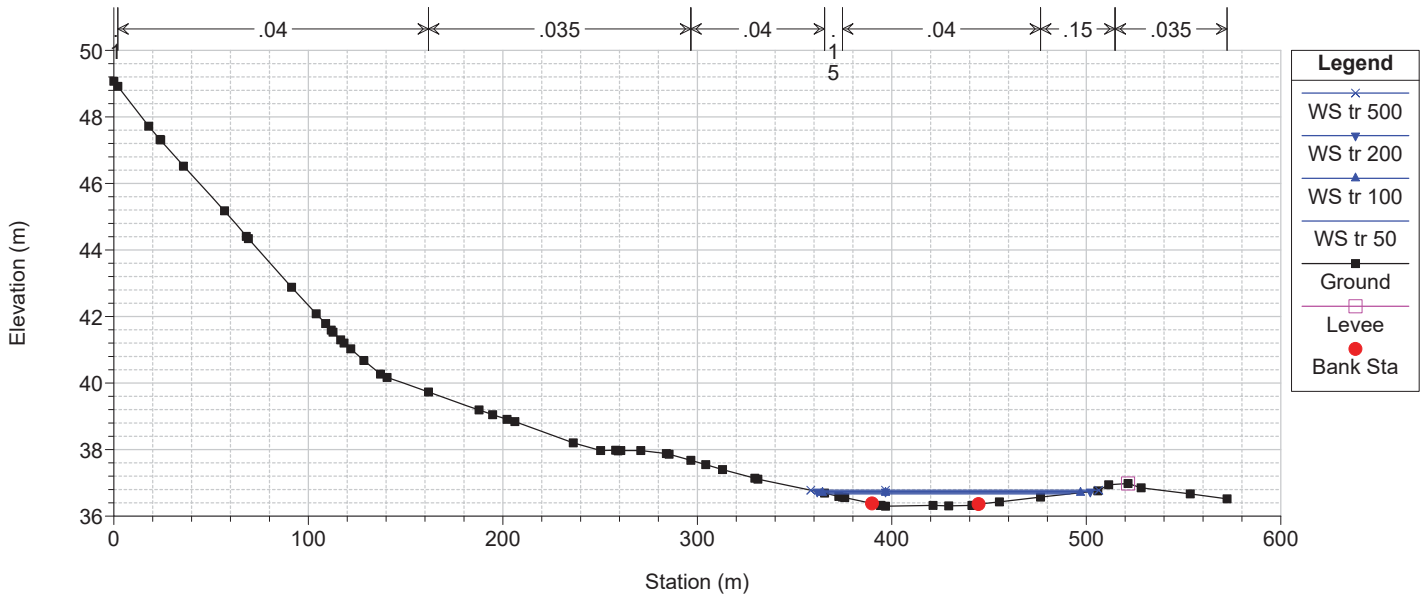


Legend	
WS tr 500	✕
WS tr 200	▴
WS tr 100	▾
WS tr 50	■
Ground	■
Left Levee	□
Right Levee	■

urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

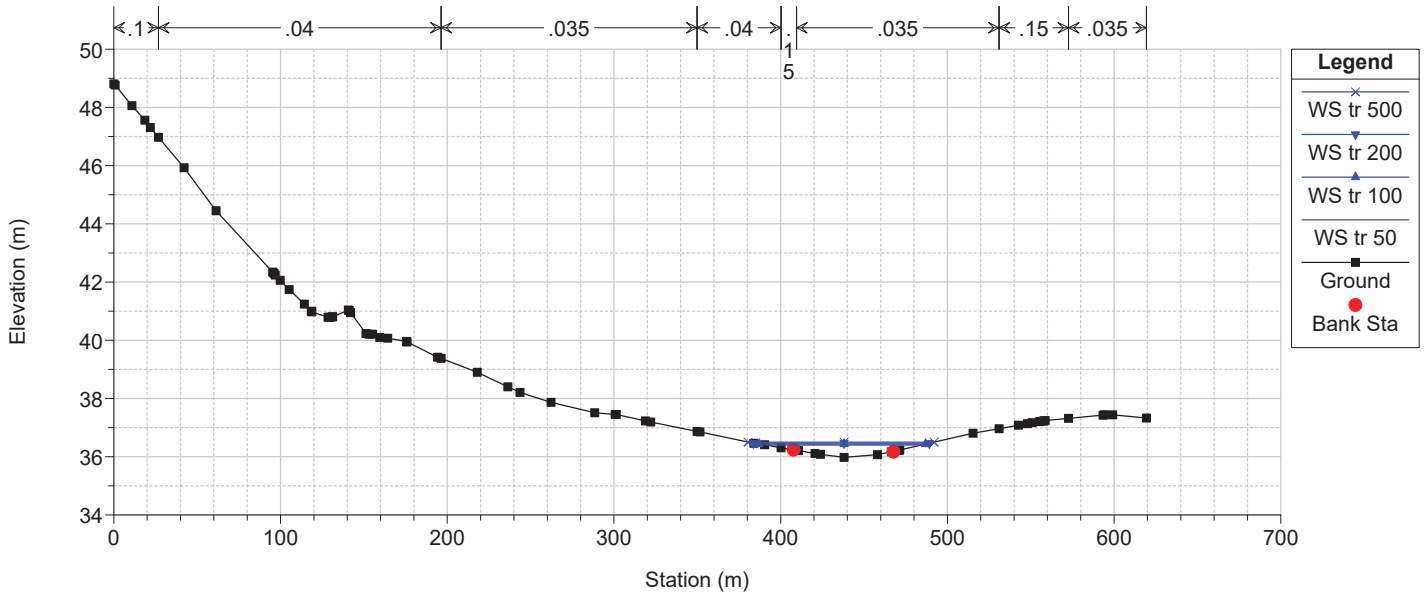
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urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

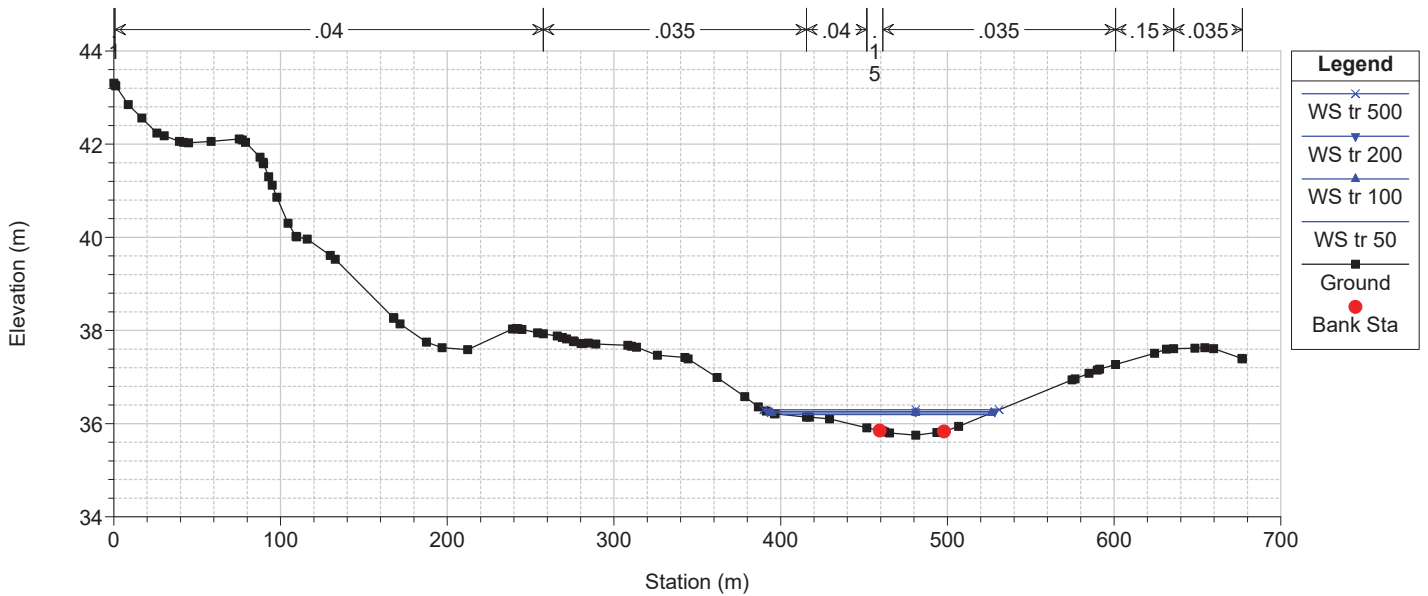
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urune26062017

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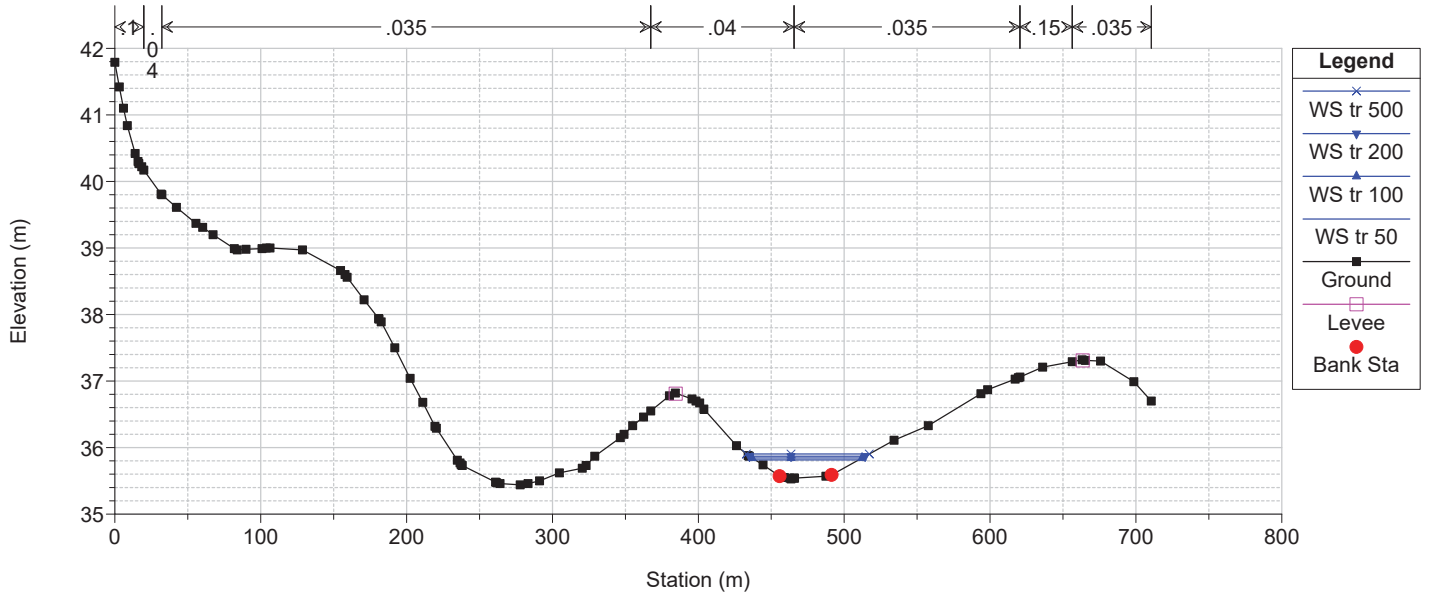
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urune26062017

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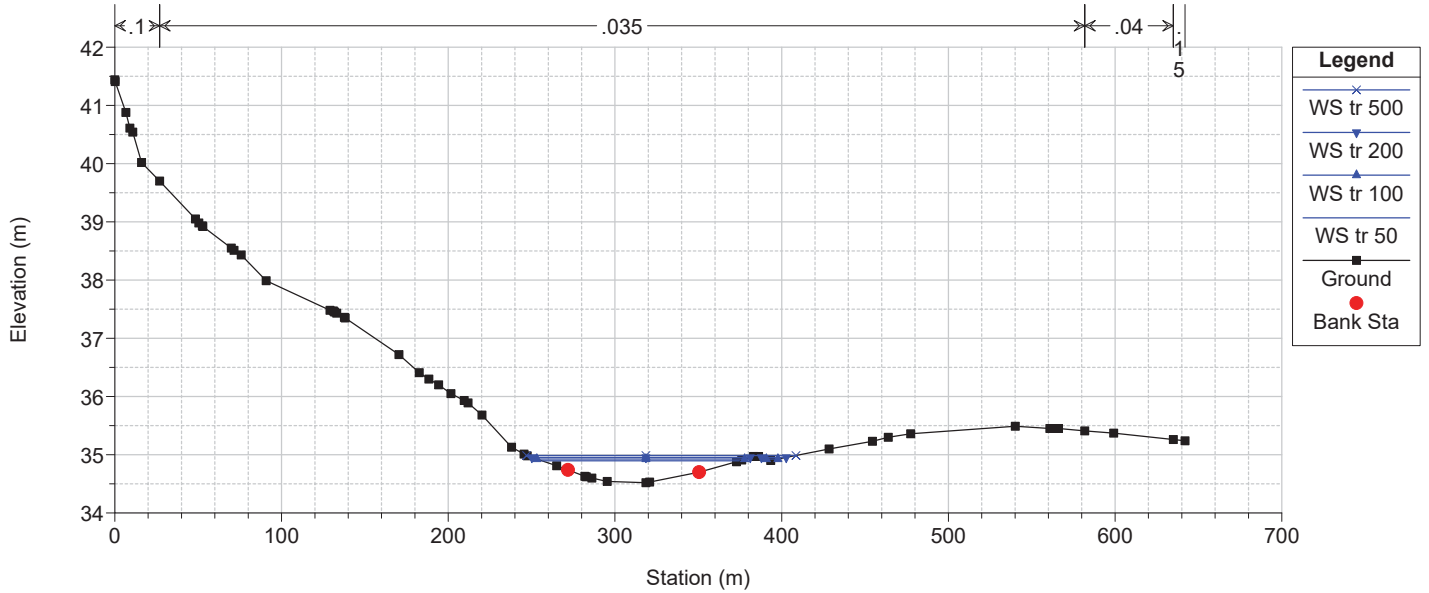
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urune26062017

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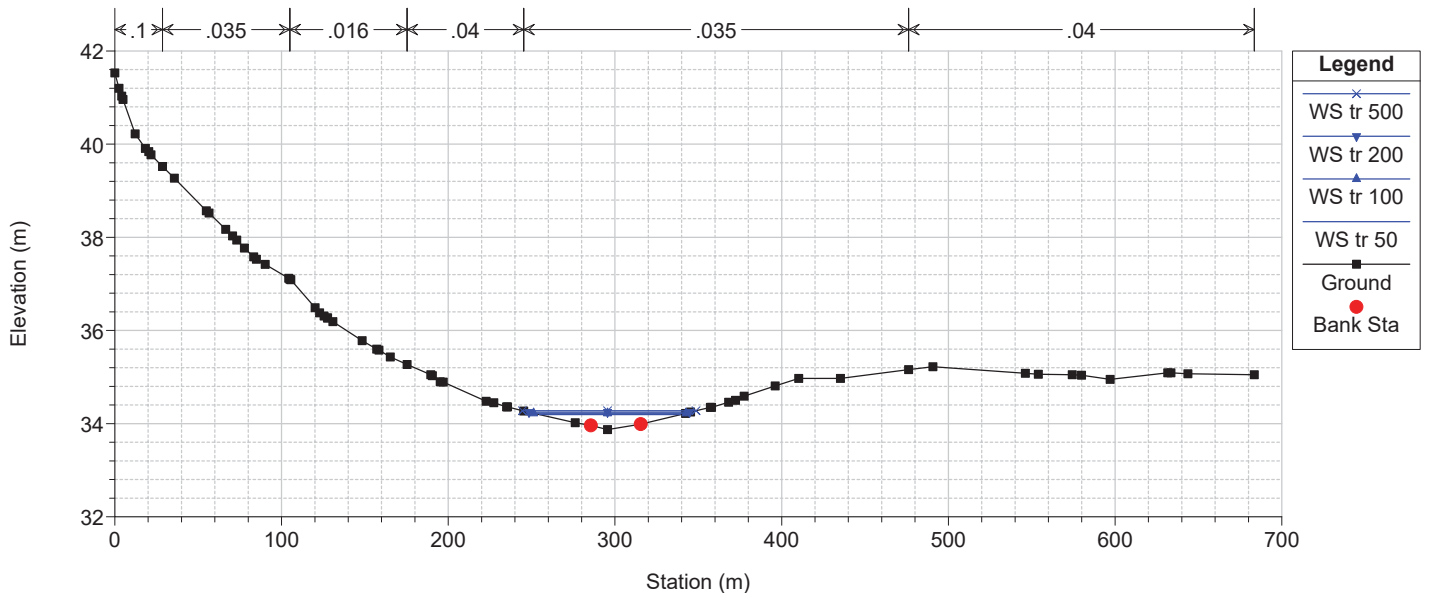
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urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

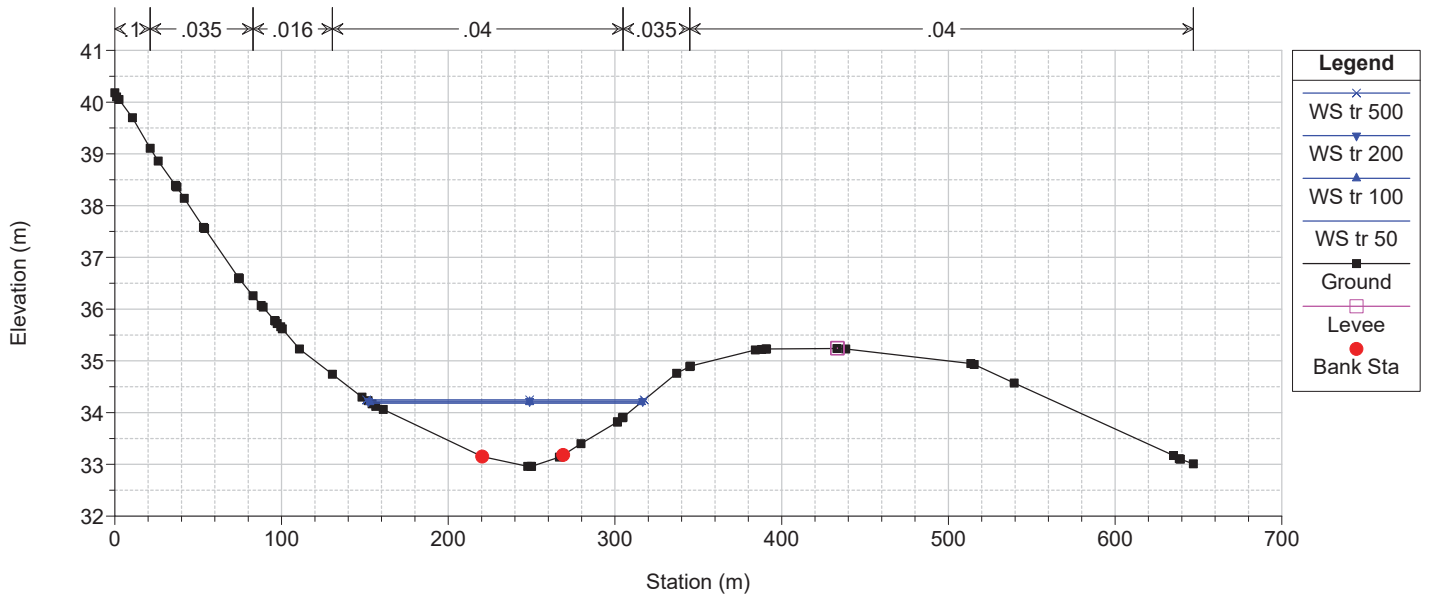
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urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

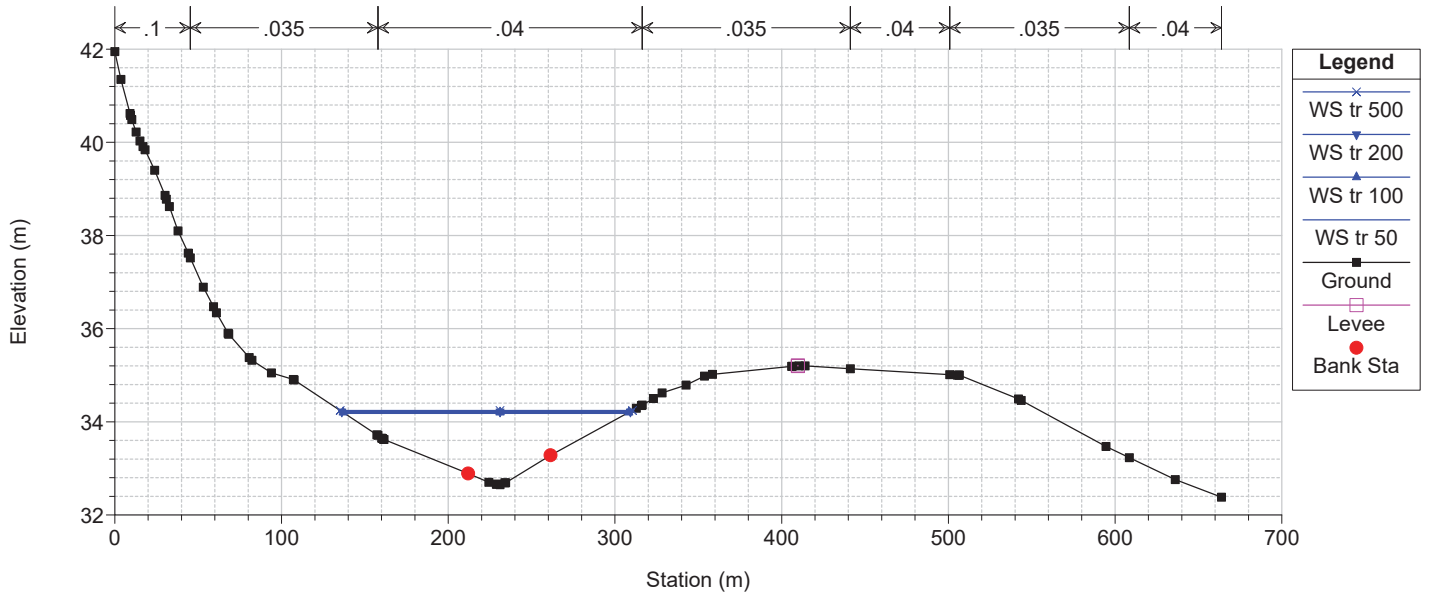
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urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

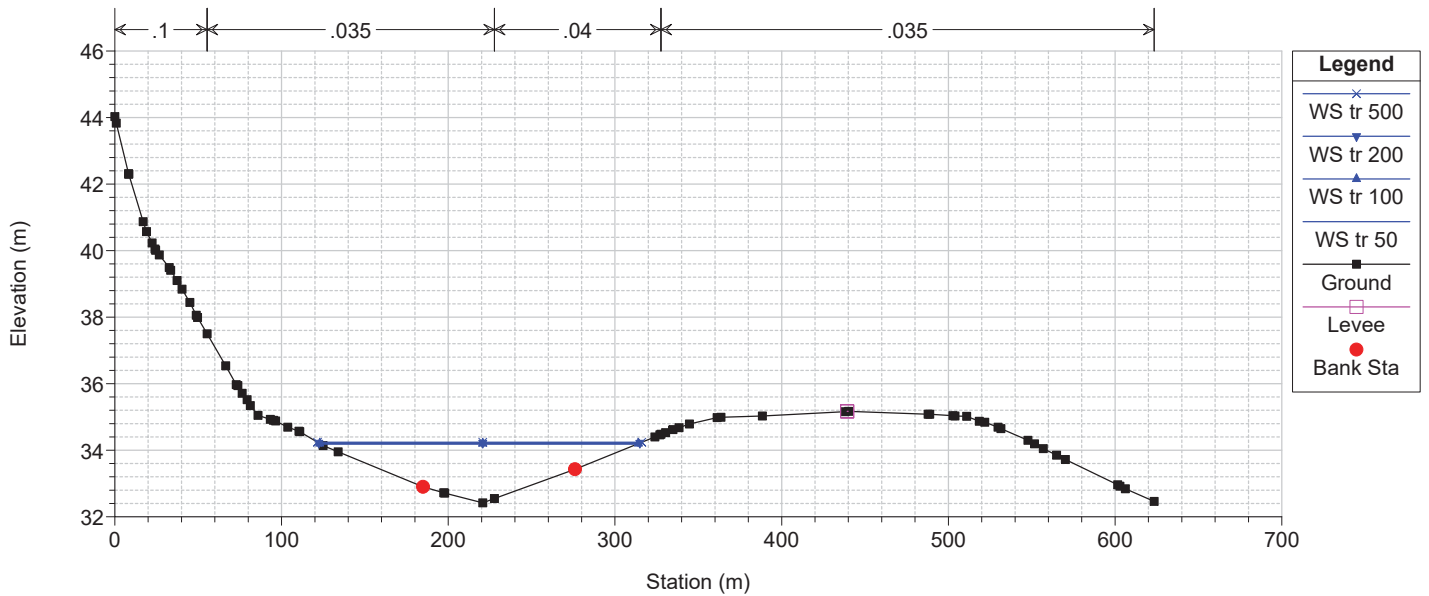
River = Can di Bonifica Reach = Asta RS = 3862.325 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

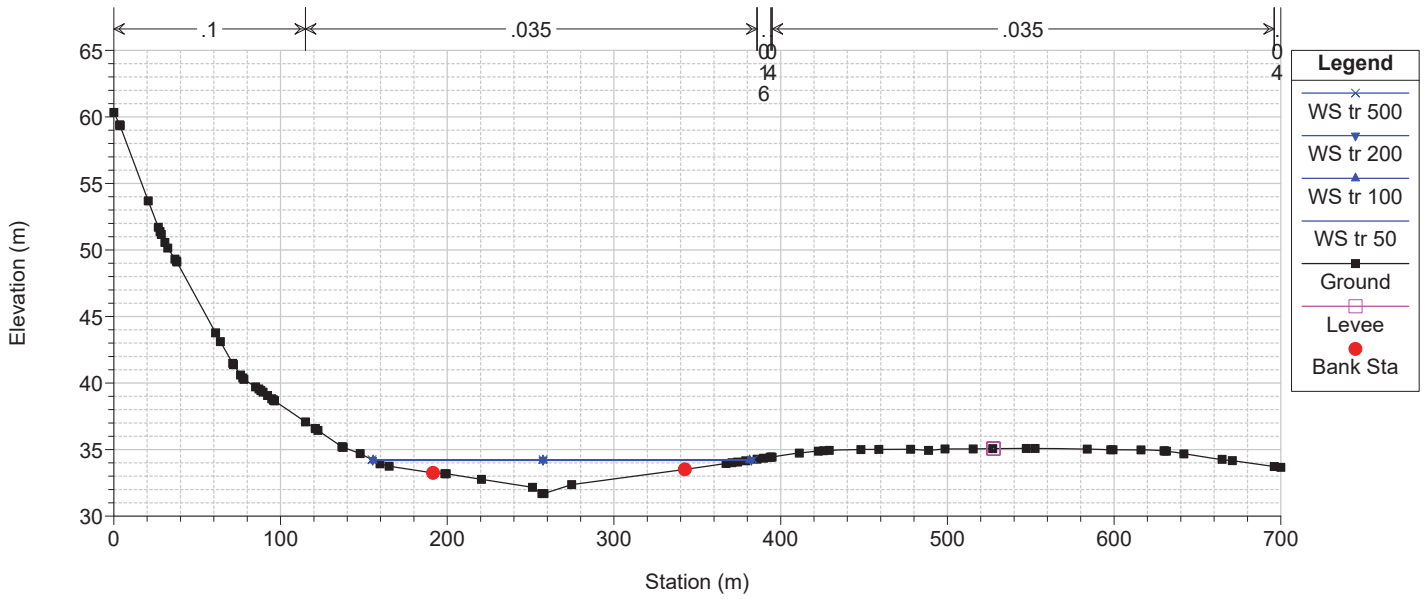
River = Can di Bonifica Reach = Asta RS = 3813.629 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

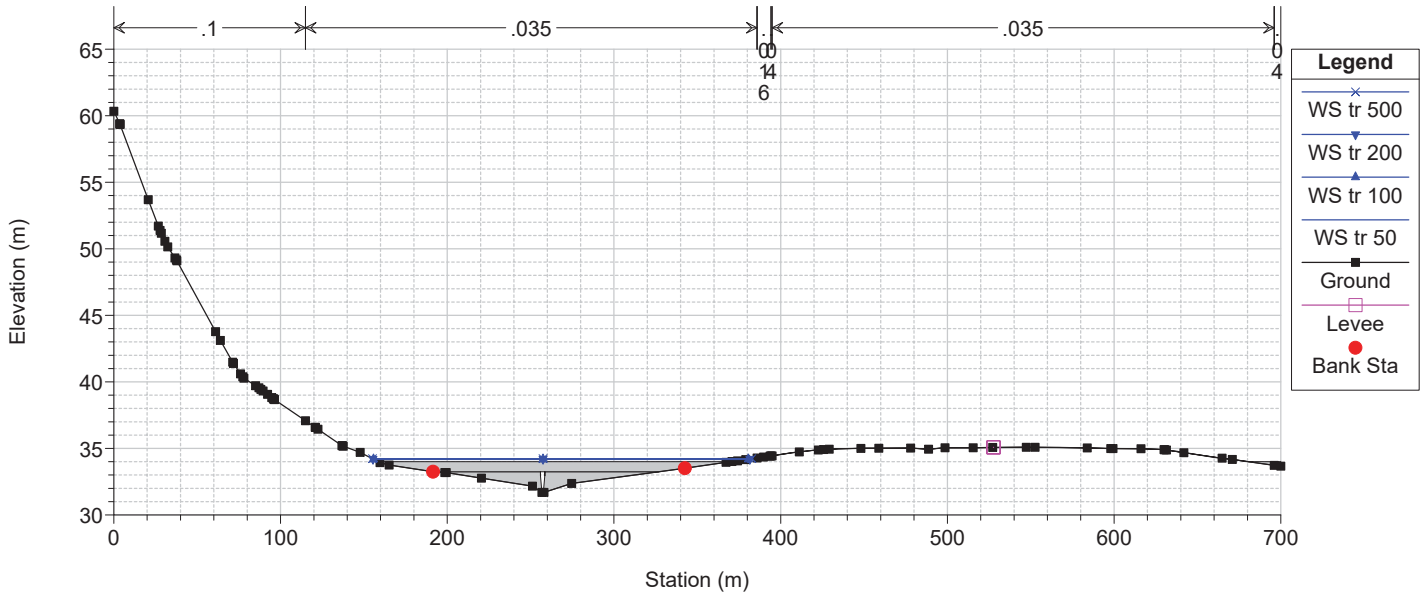
River = Can di Bonifica Reach = Asta RS = 3743.607 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

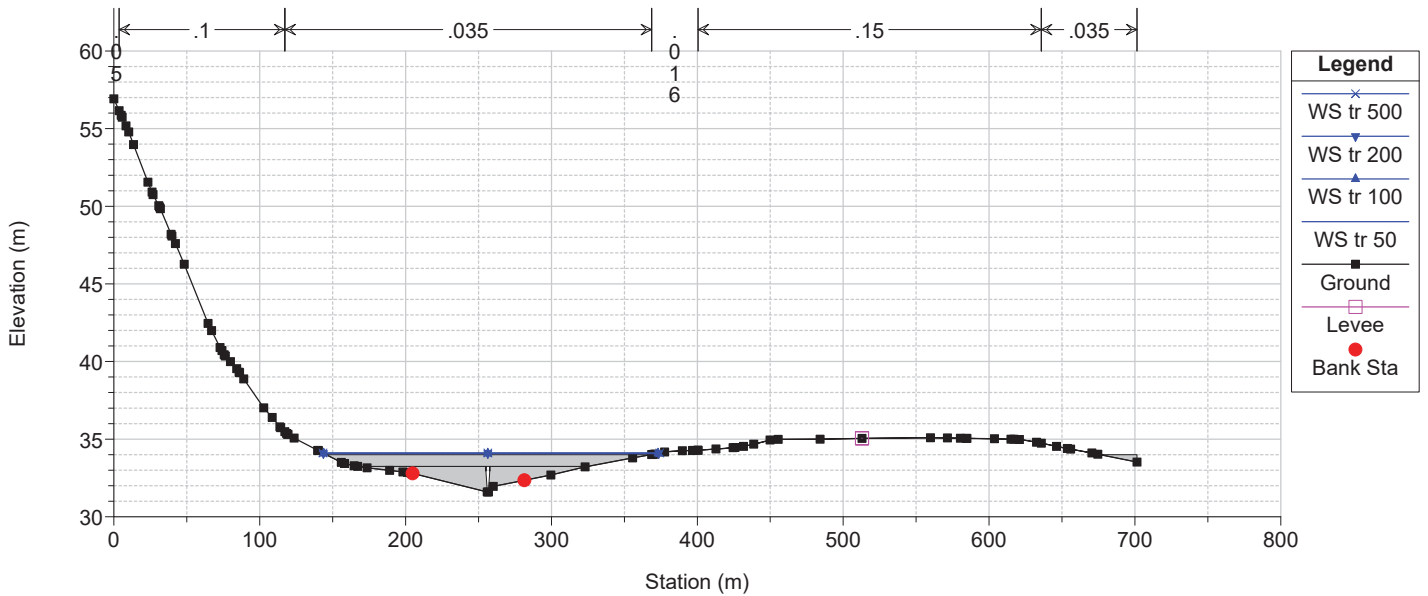
River = Can di Bonifica Reach = Asta RS = 3730.037 BR COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

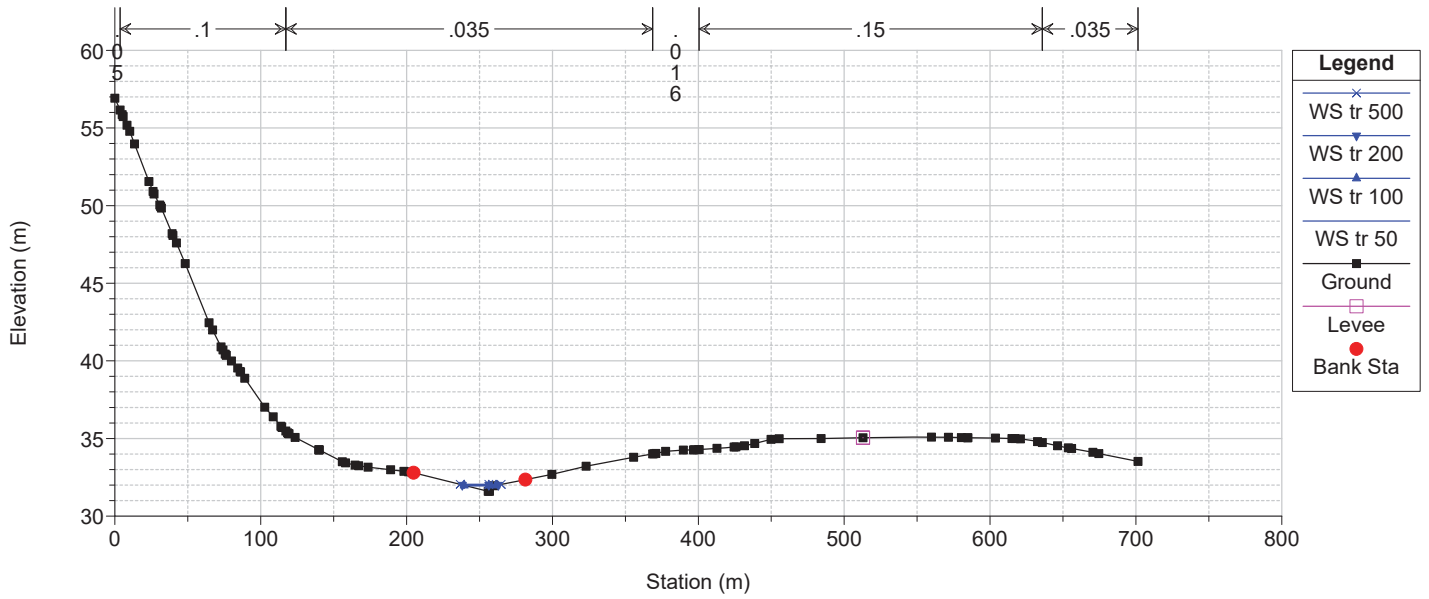
River = Can di Bonifica Reach = Asta RS = 3730.037 BR COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

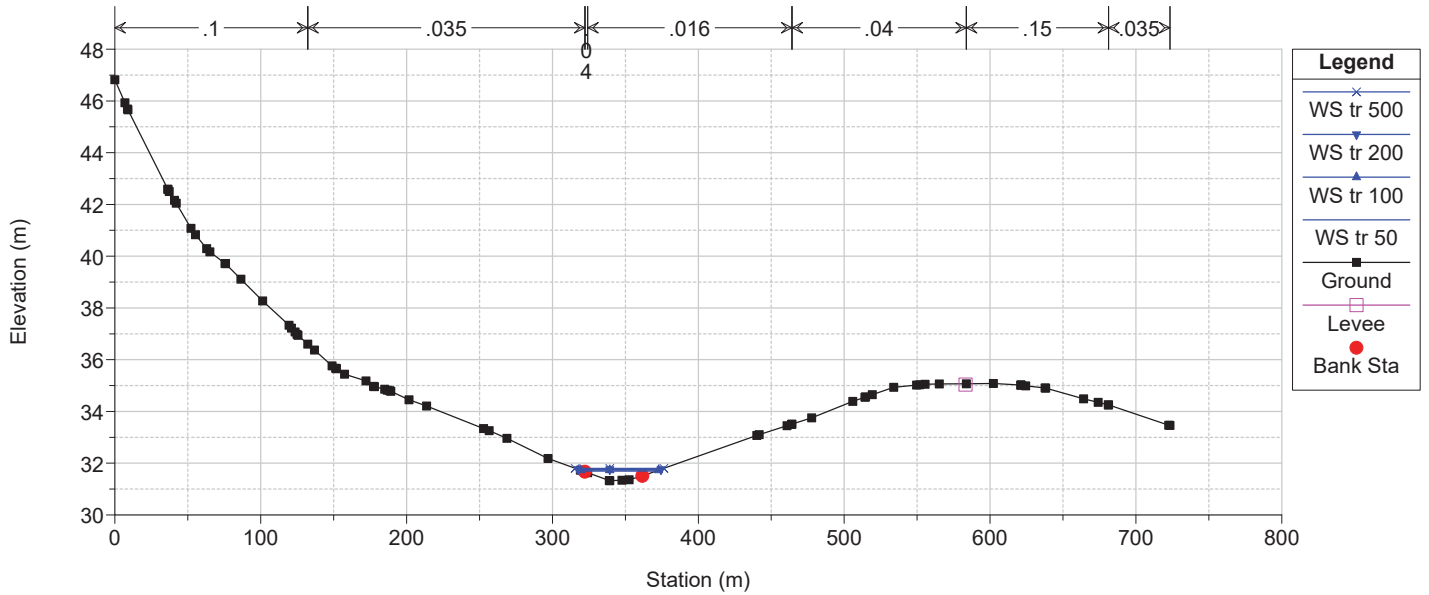
River = Can di Bonifica Reach = Asta RS = 3705.985 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

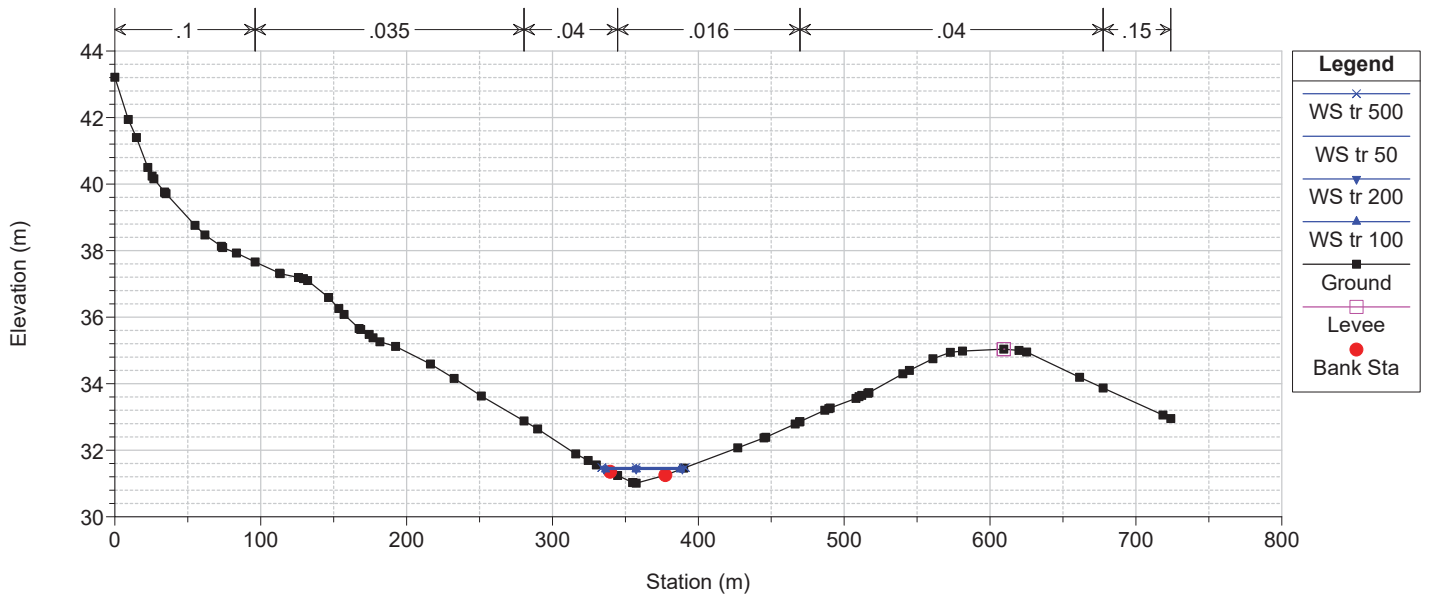
River = Can di Bonifica Reach = Asta RS = 3574.611 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

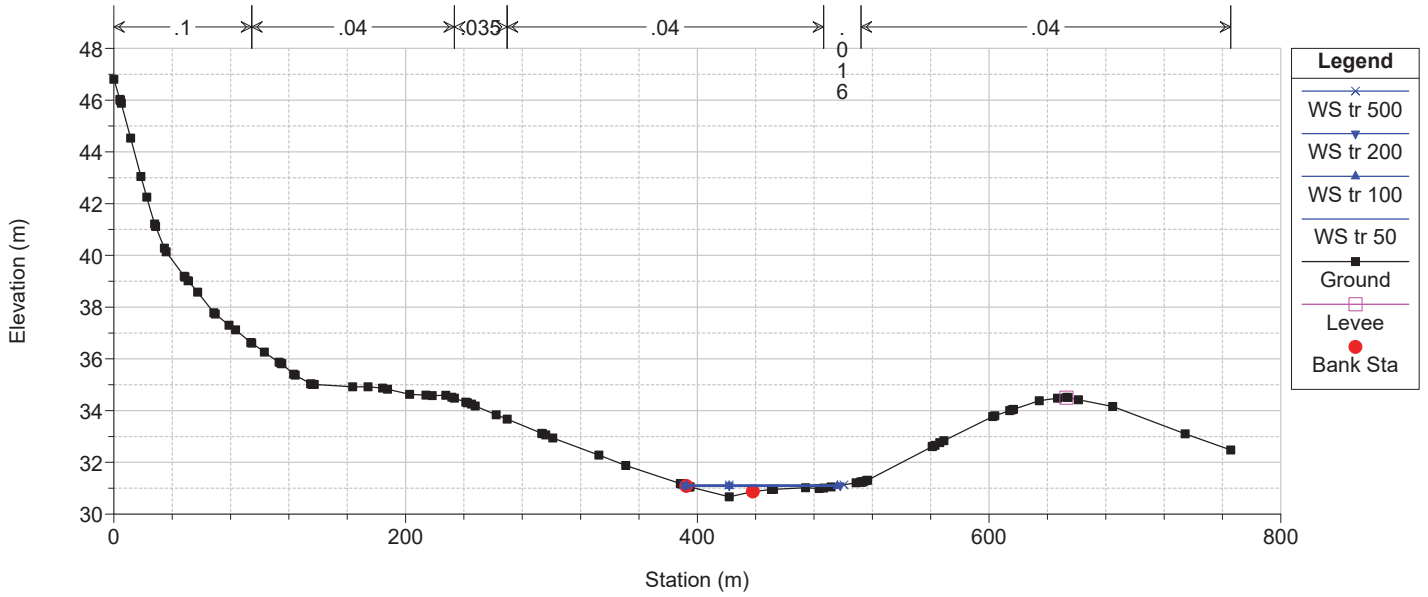
River = Can di Bonifica Reach = Asta RS = 3511.05 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

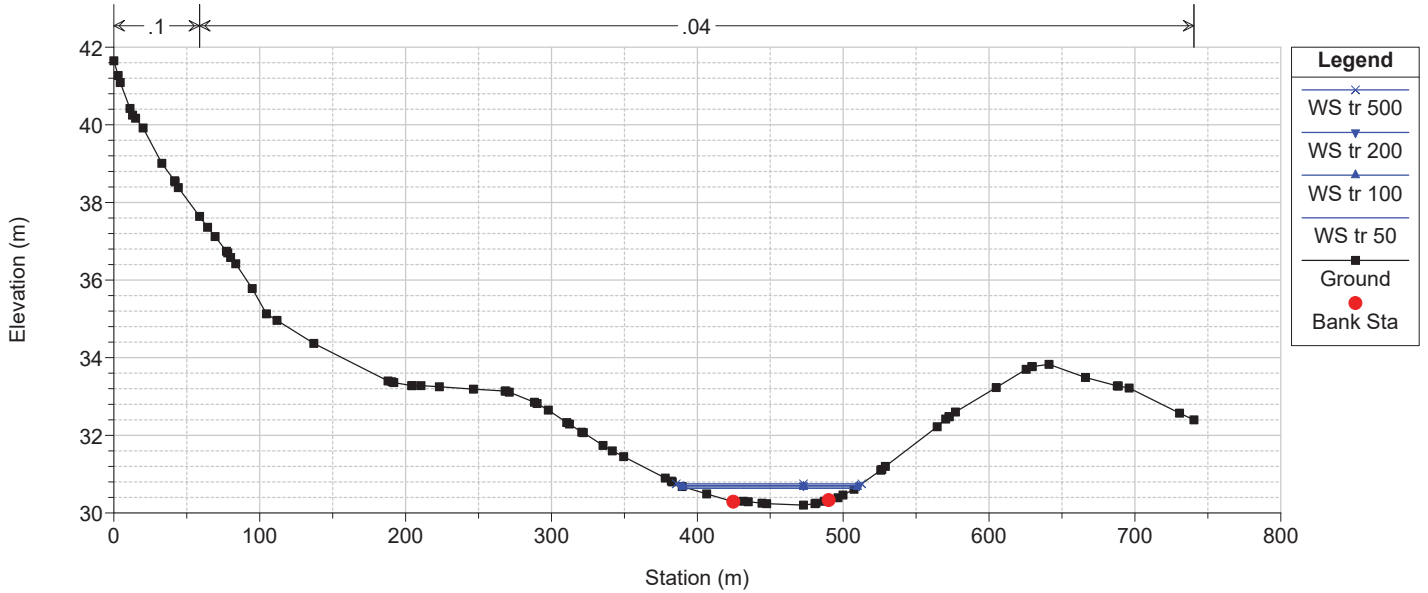
River = Can di Bonifica Reach = Asta RS = 3435.676 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

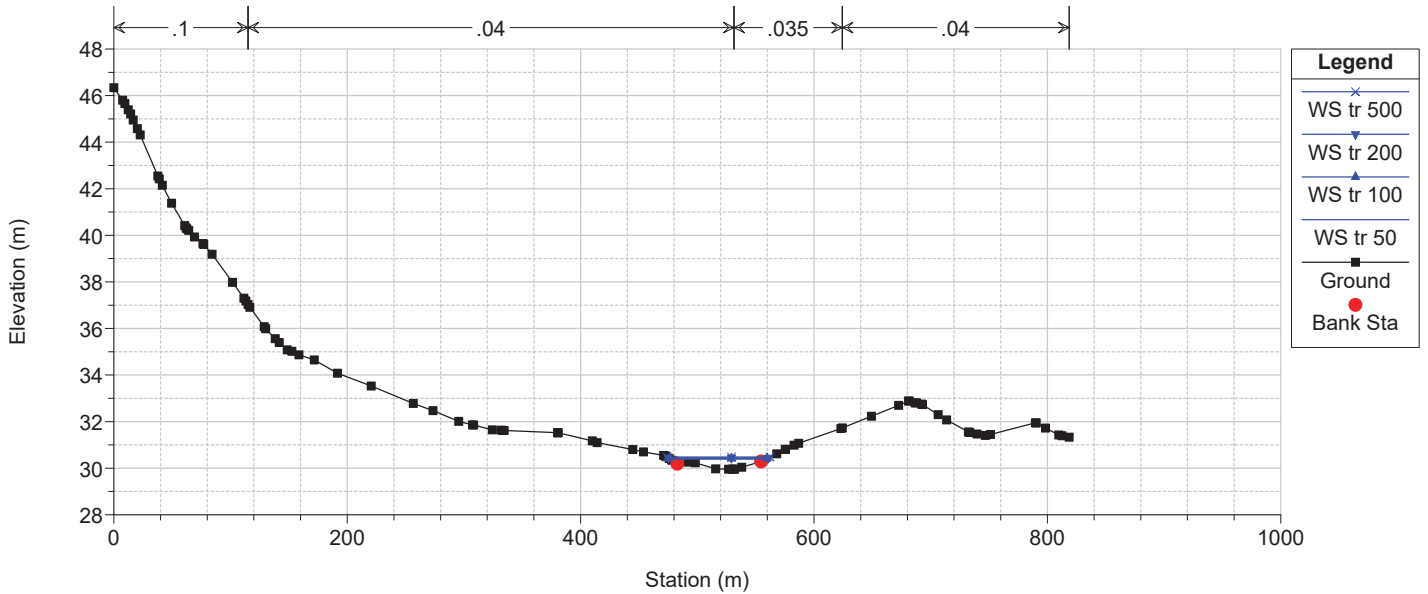
River = Can di Bonifica Reach = Asta RS = 3370.133 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

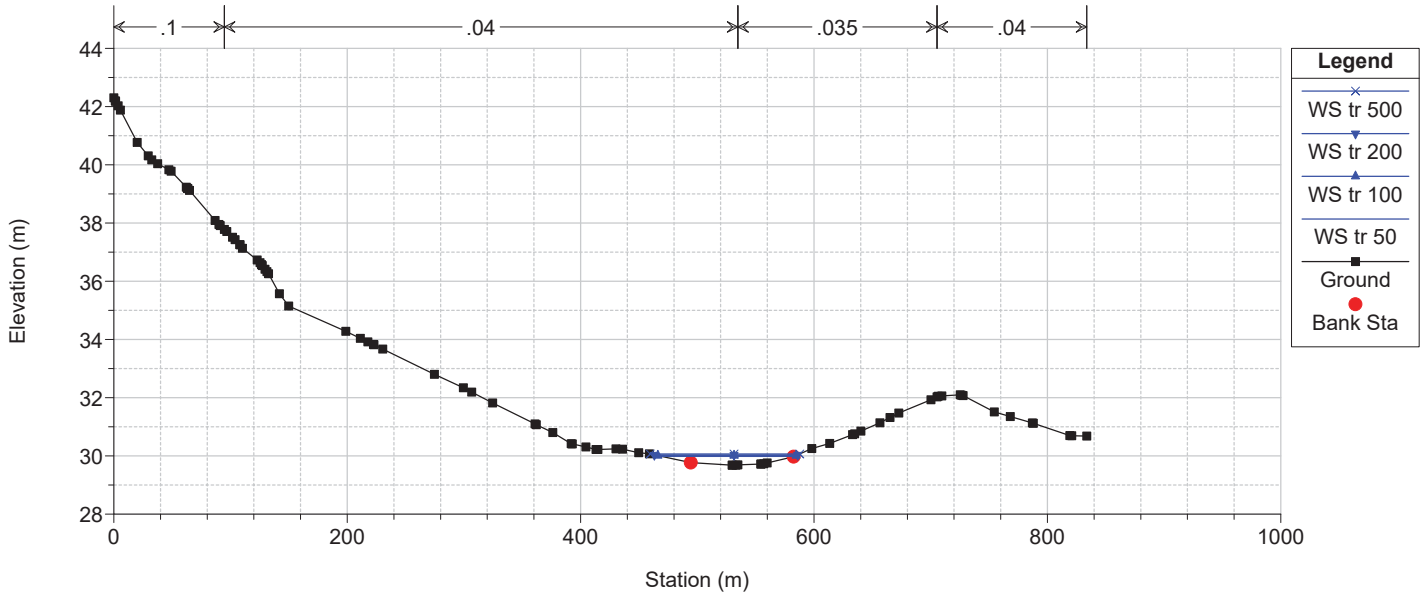
River = Can di Bonifica Reach = Asta RS = 3291.005 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

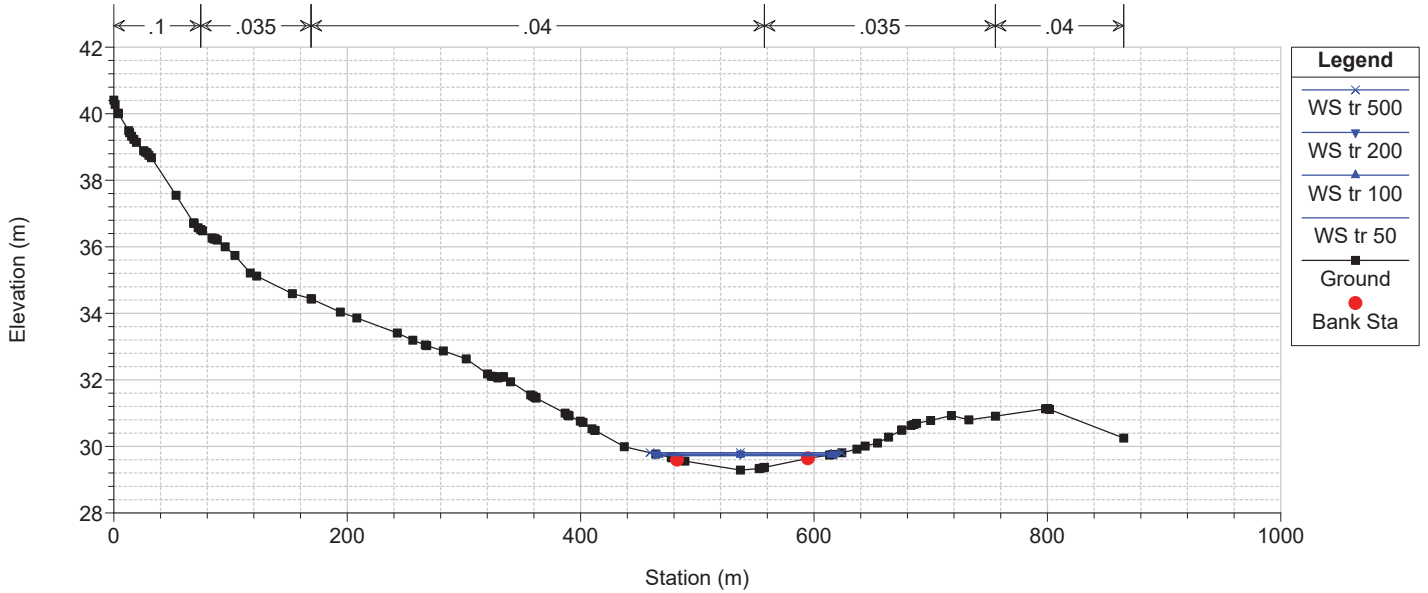
River = Can di Bonifica Reach = Asta RS = 3220.07 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

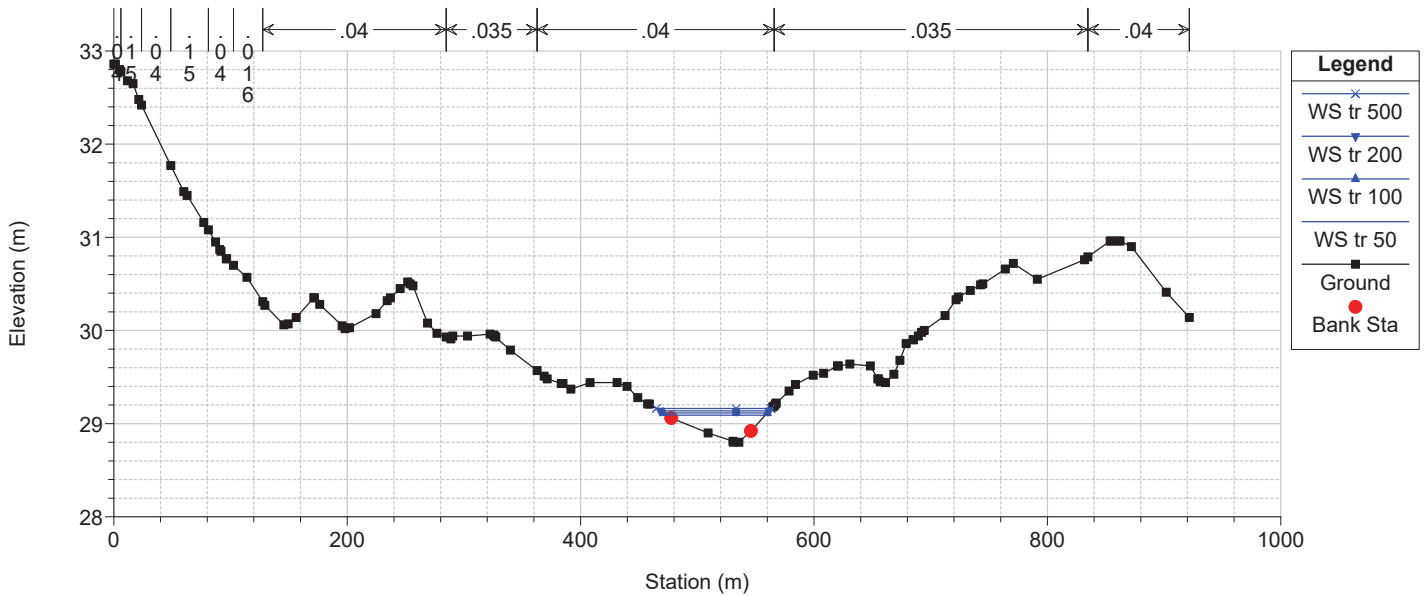
River = Can di Bonifica Reach = Asta RS = 3145.198 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

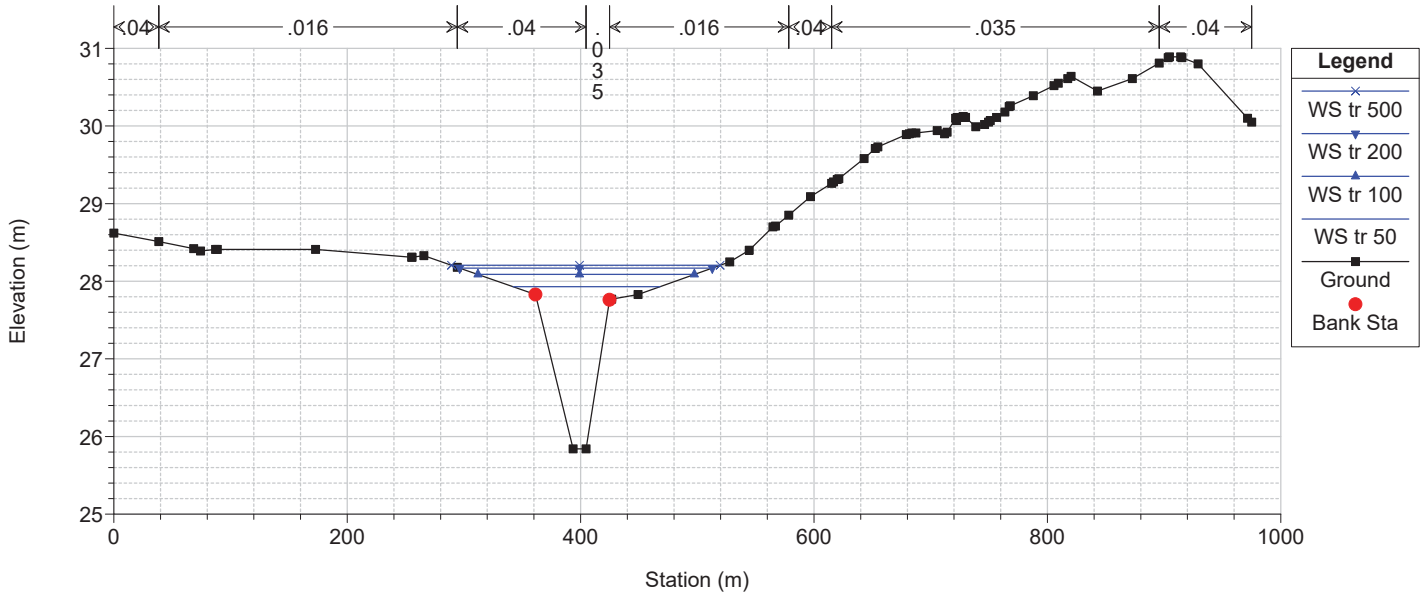
River = Can di Bonifica Reach = Asta RS = 3046.504 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

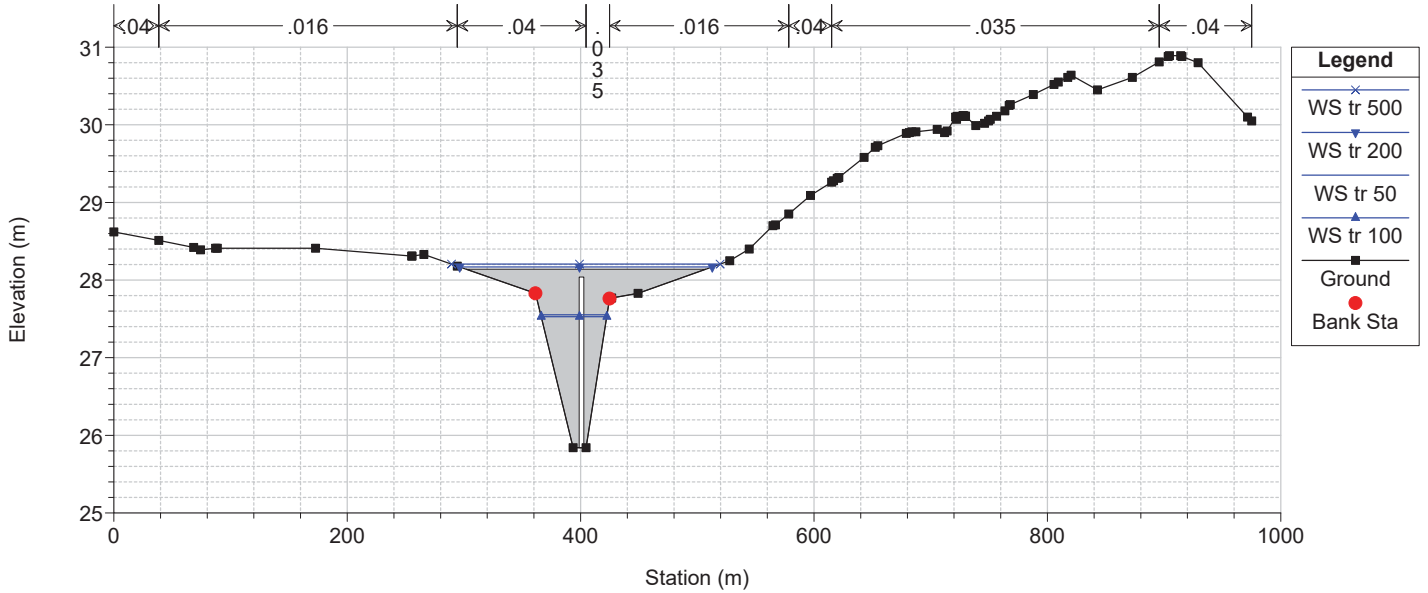
River = Can di Bonifica Reach = Asta RS = 3006.139 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

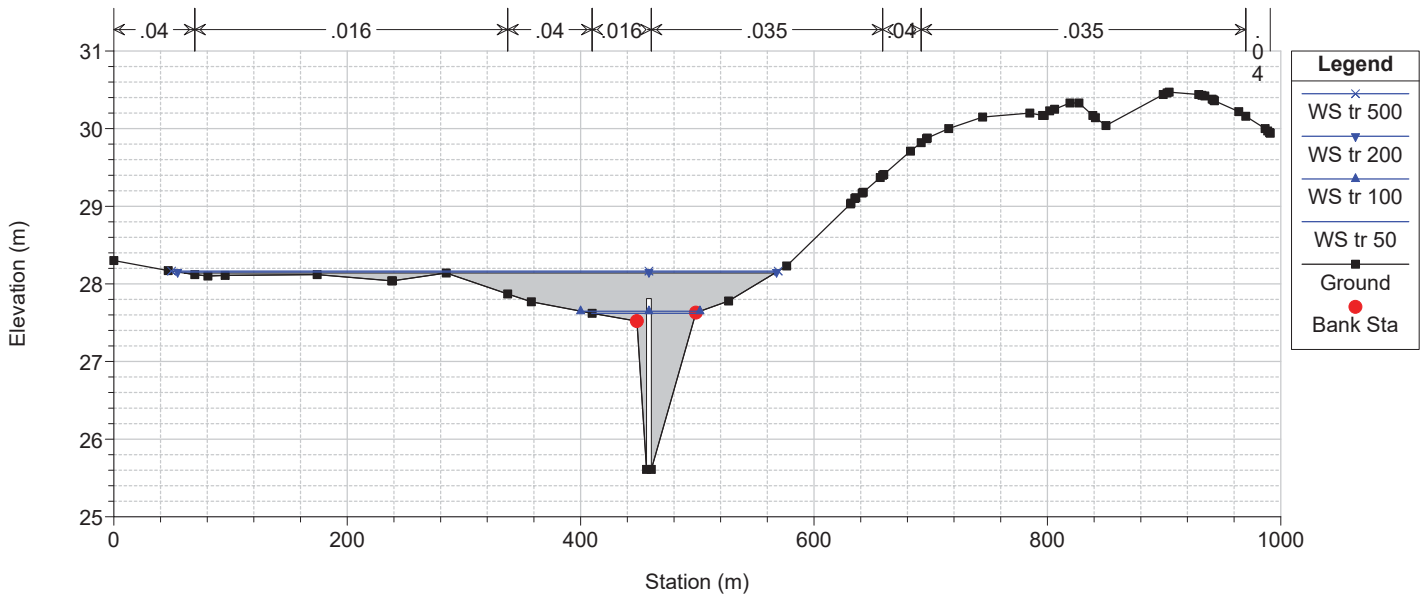
River = Can di Bonifica Reach = Asta RS = 2976.972 Culv COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

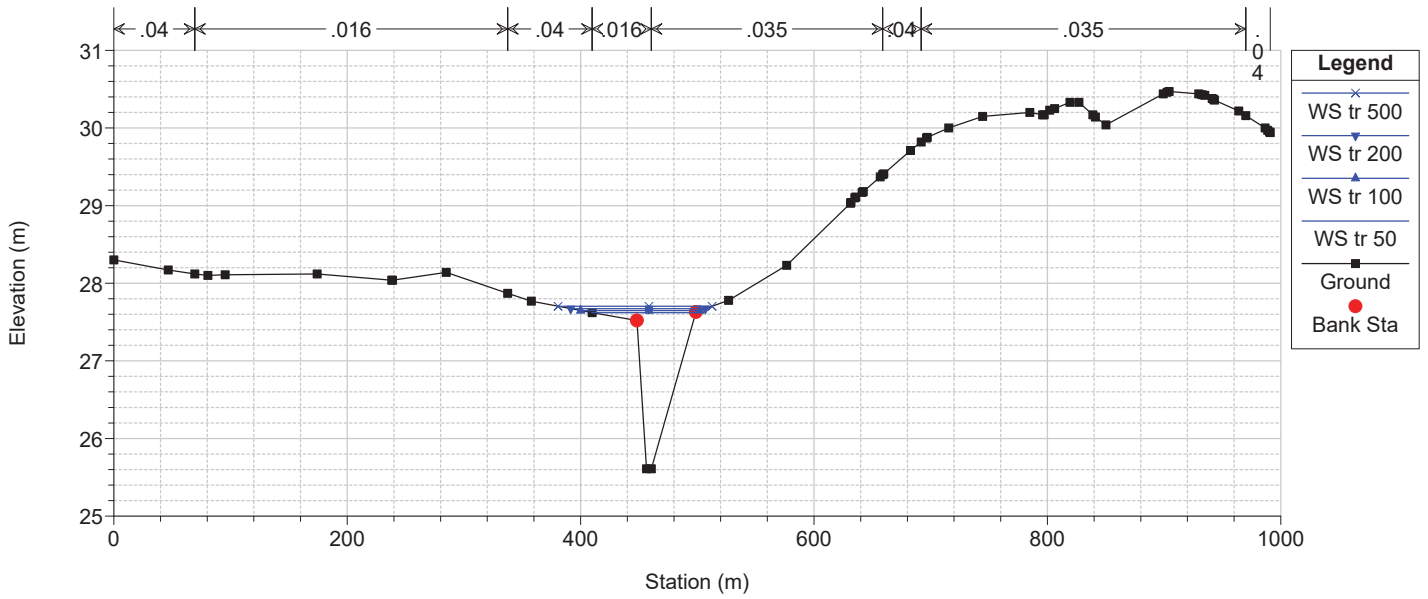
River = Can di Bonifica Reach = Asta RS = 2976.972 Culv COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

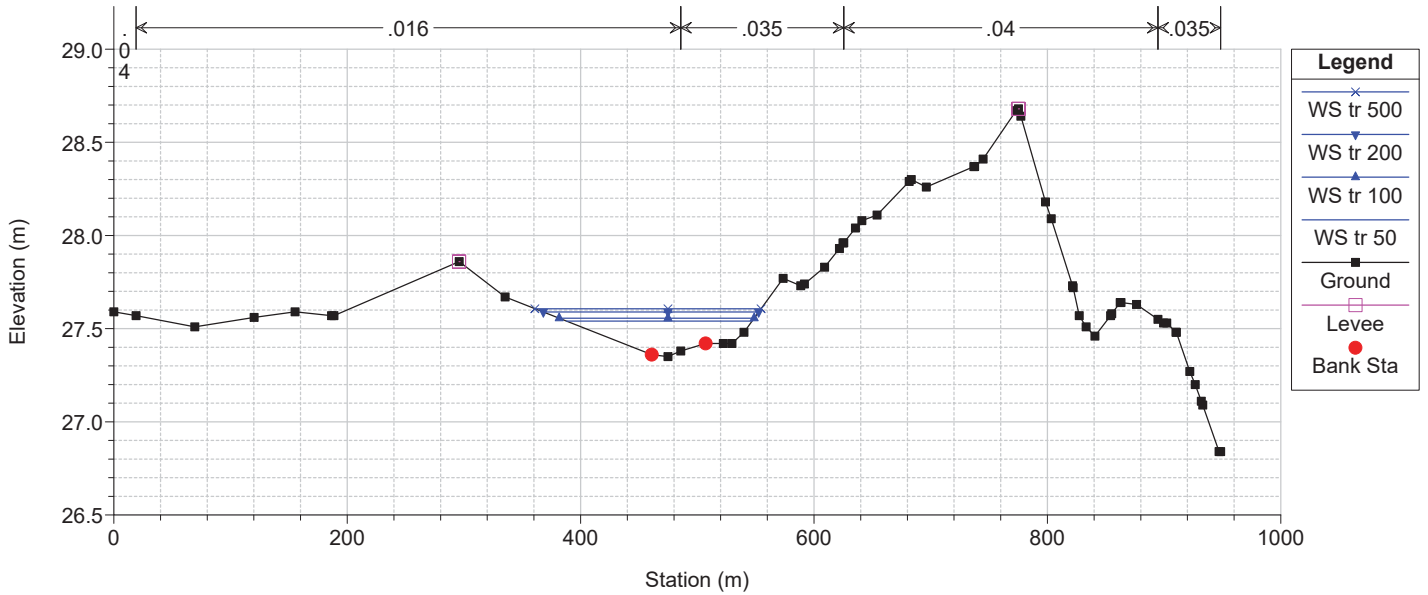
River = Can di Bonifica Reach = Asta RS = 2950.516 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

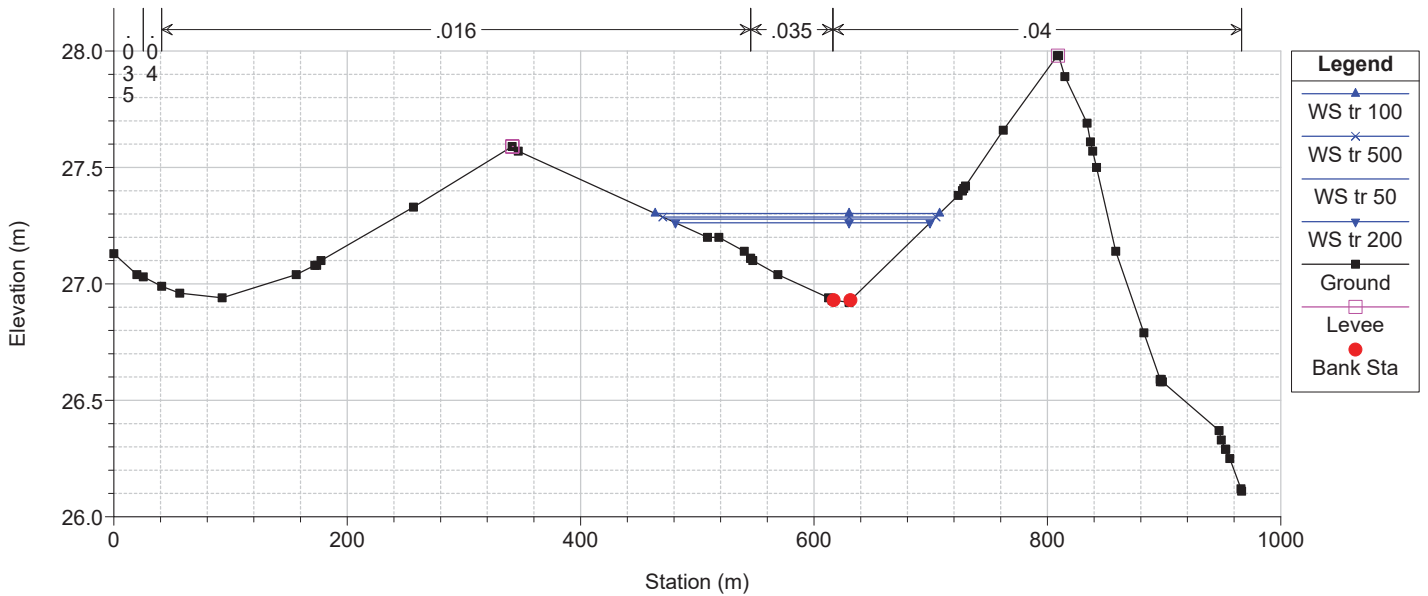
River = Can di Bonifica Reach = Asta RS = 2805.869 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

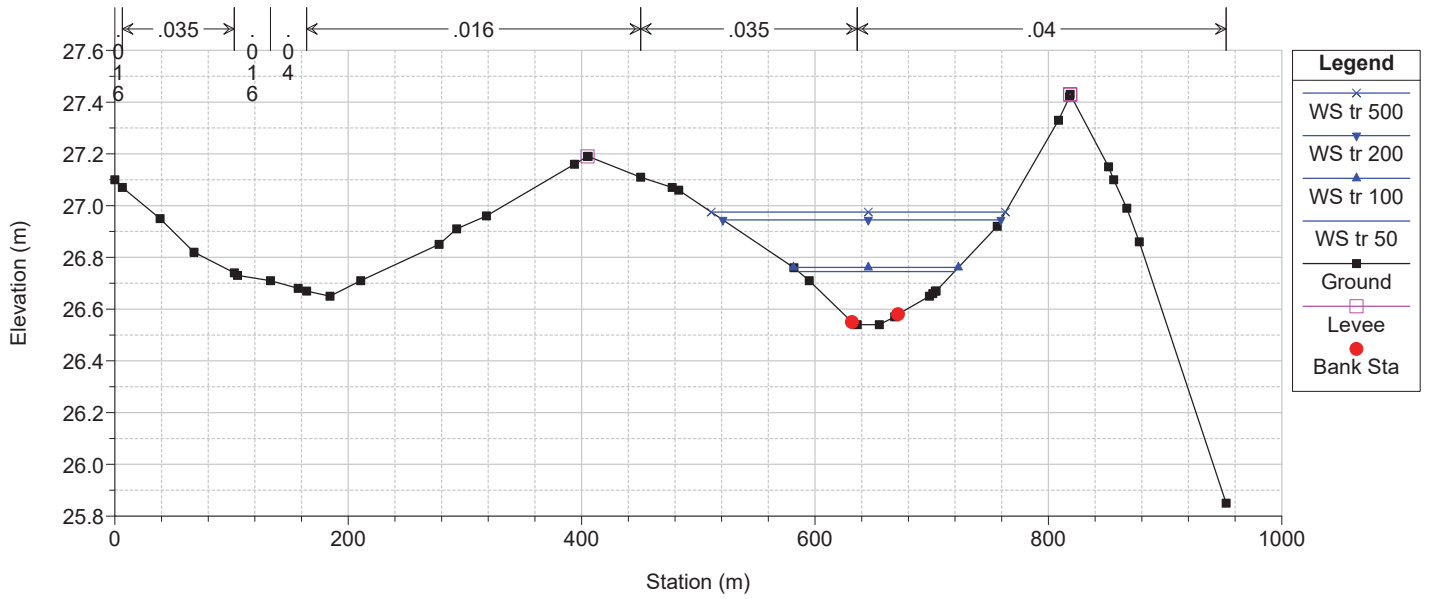
River = Can di Bonifica Reach = Asta RS = 2718.334 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

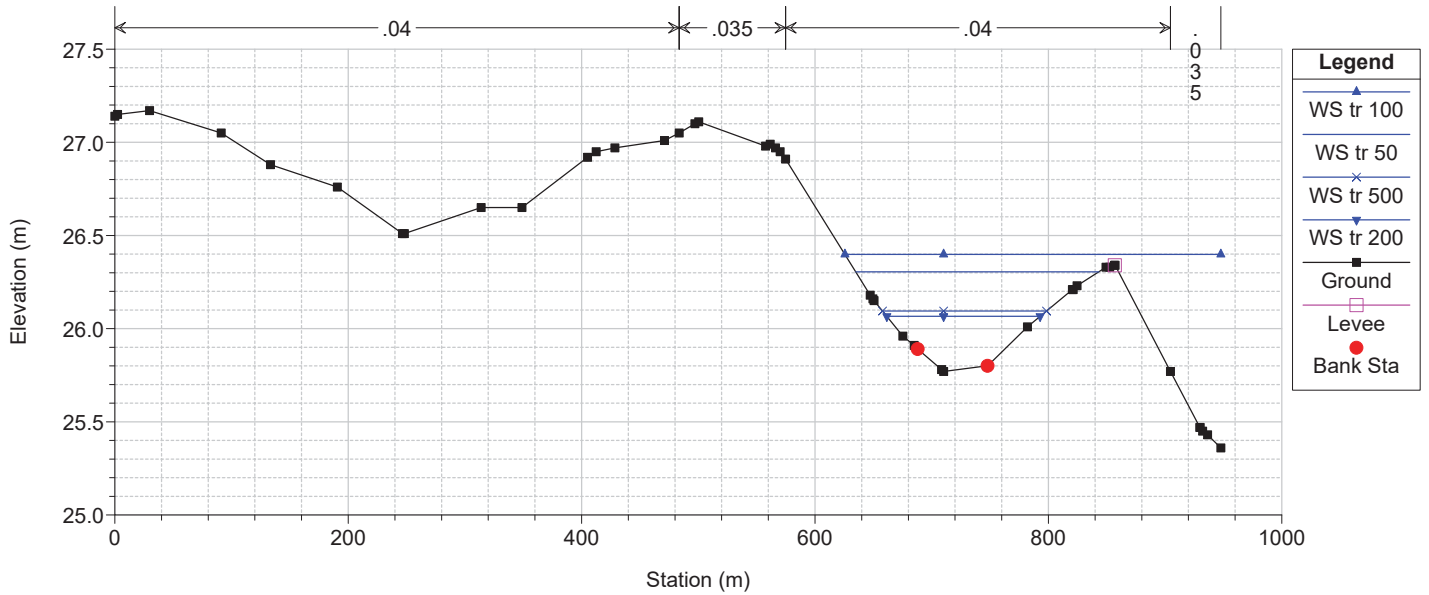
River = Can di Bonifica Reach = Asta RS = 2591.327 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

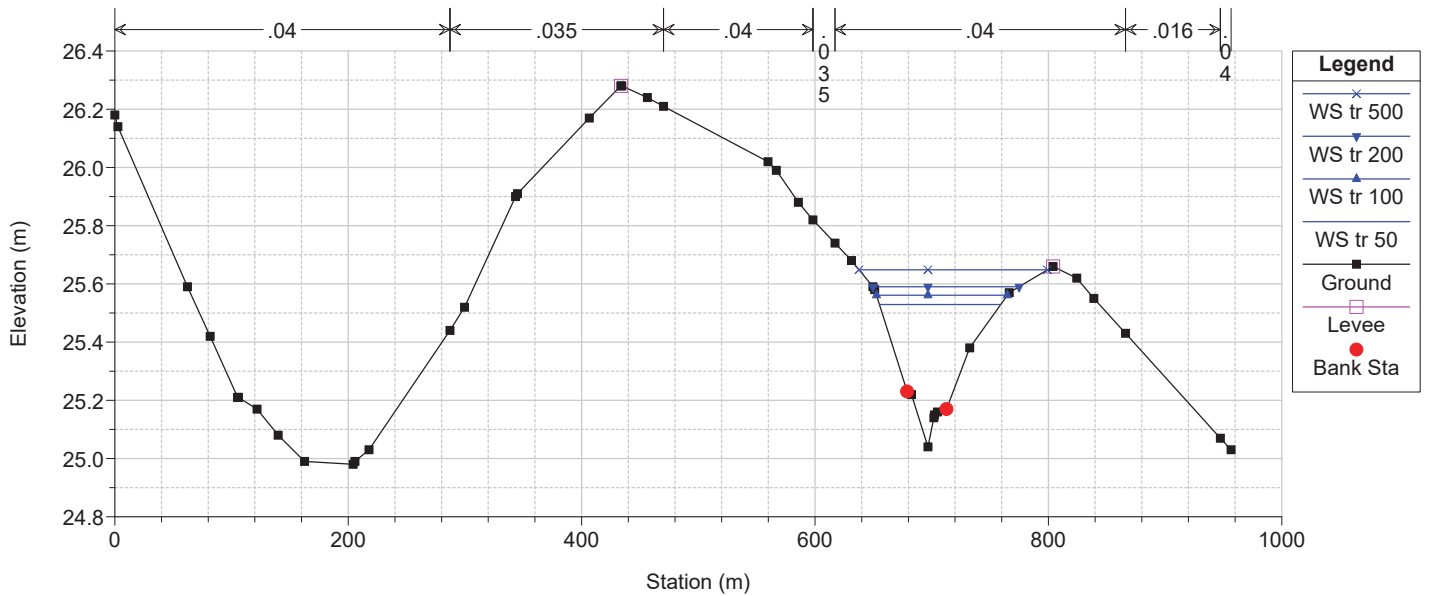
River = Can di Bonifica Reach = Asta RS = 2433.408 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

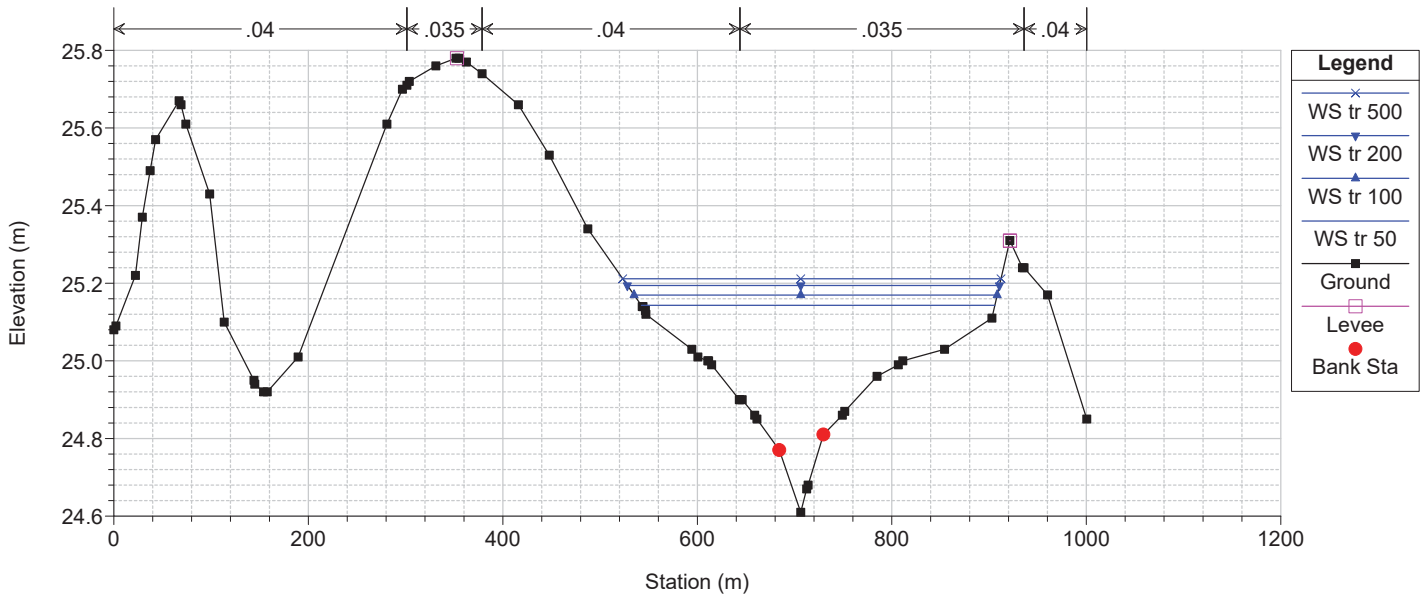
River = Can di Bonifica Reach = Asta RS = 2015.113 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

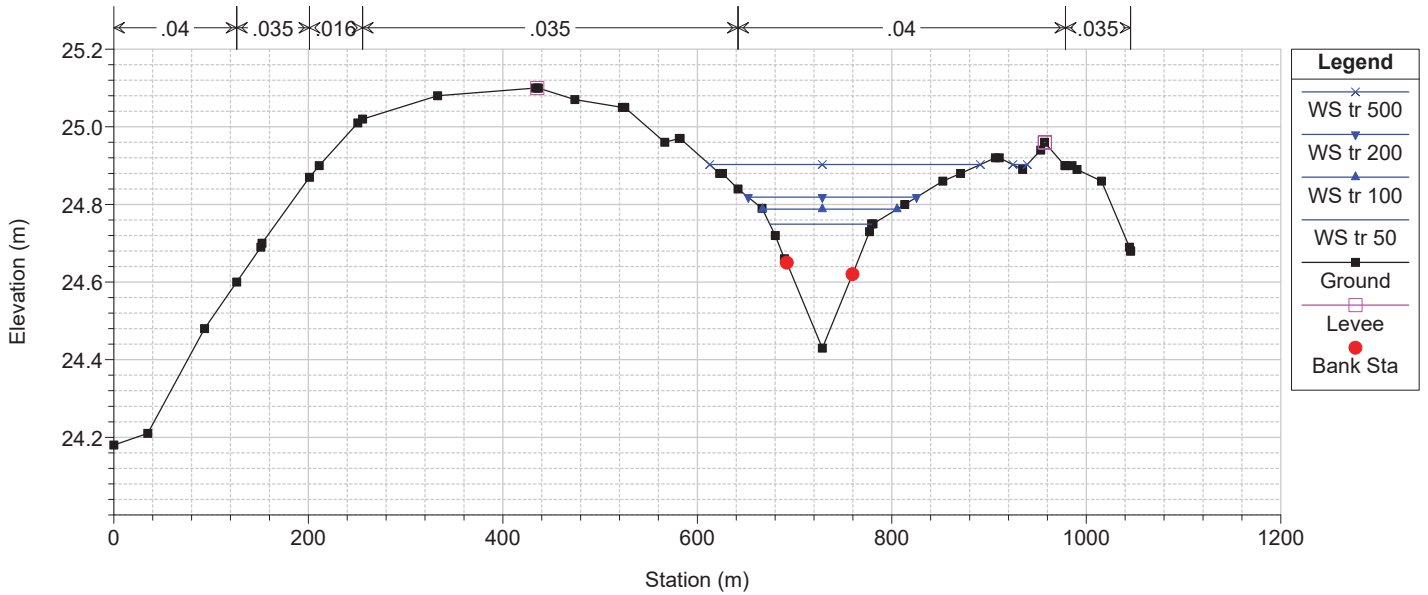
River = Can di Bonifica Reach = Asta RS = 1777.132 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

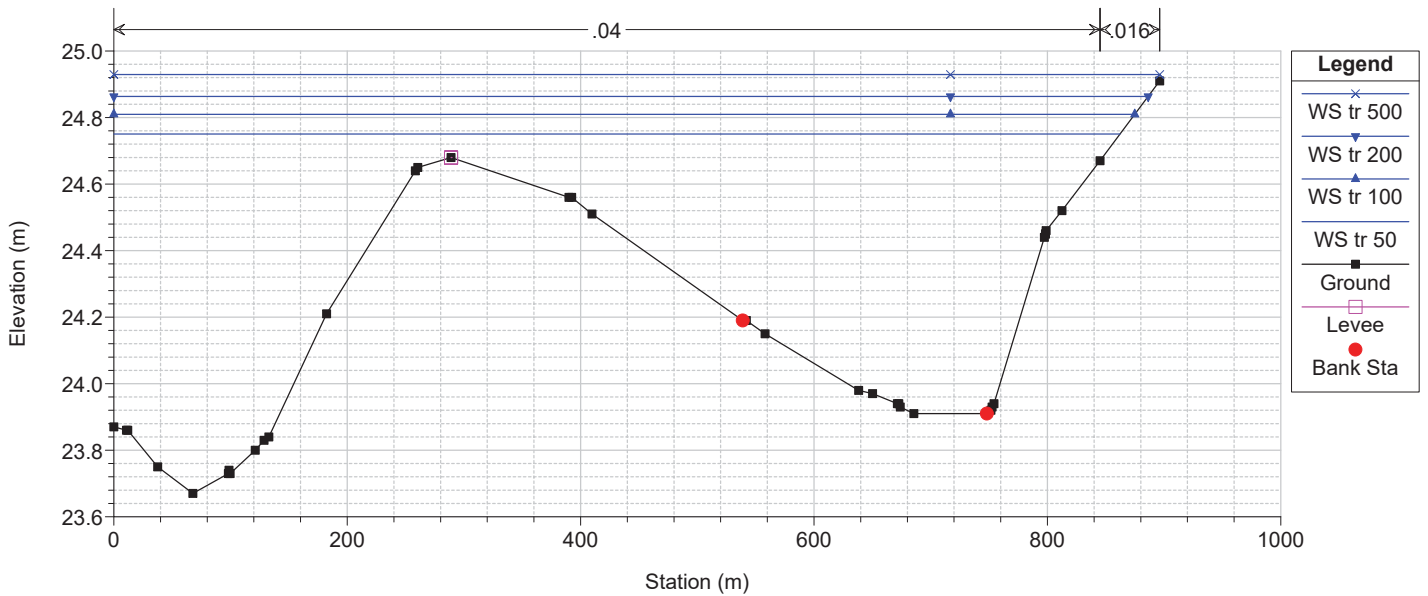
River = Can di Bonifica Reach = Asta RS = 1642.48 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

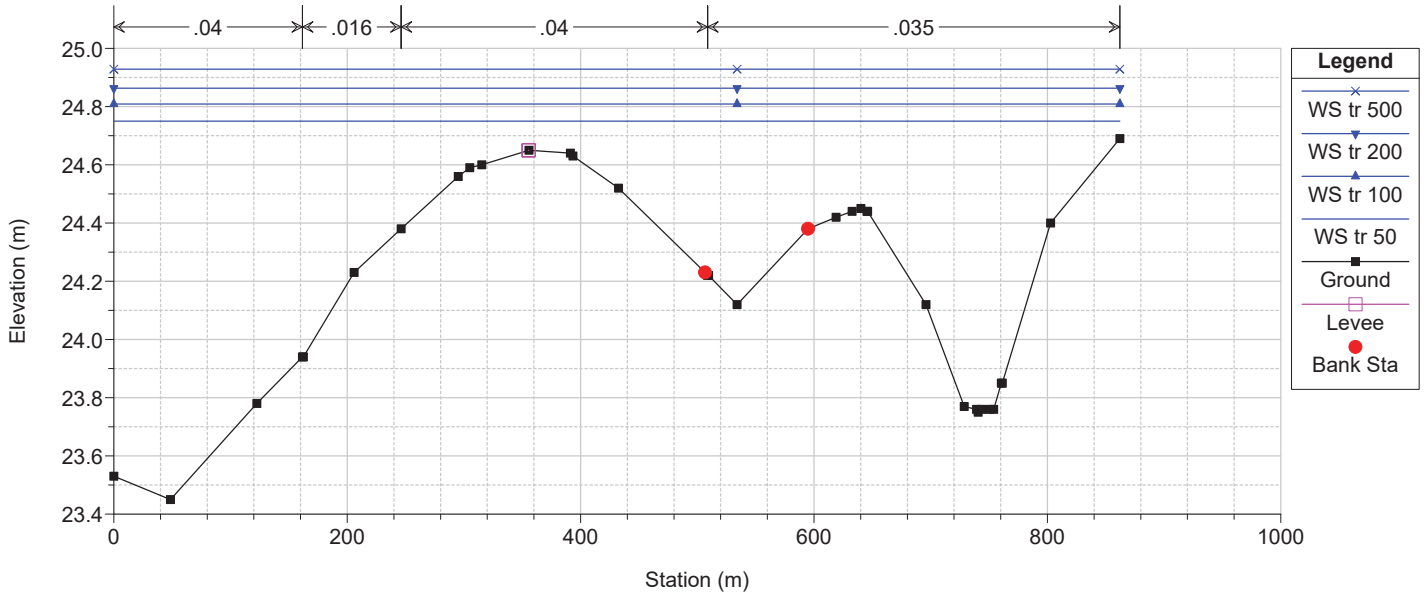
River = Can di Bonifica Reach = Asta RS = 1439.523 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

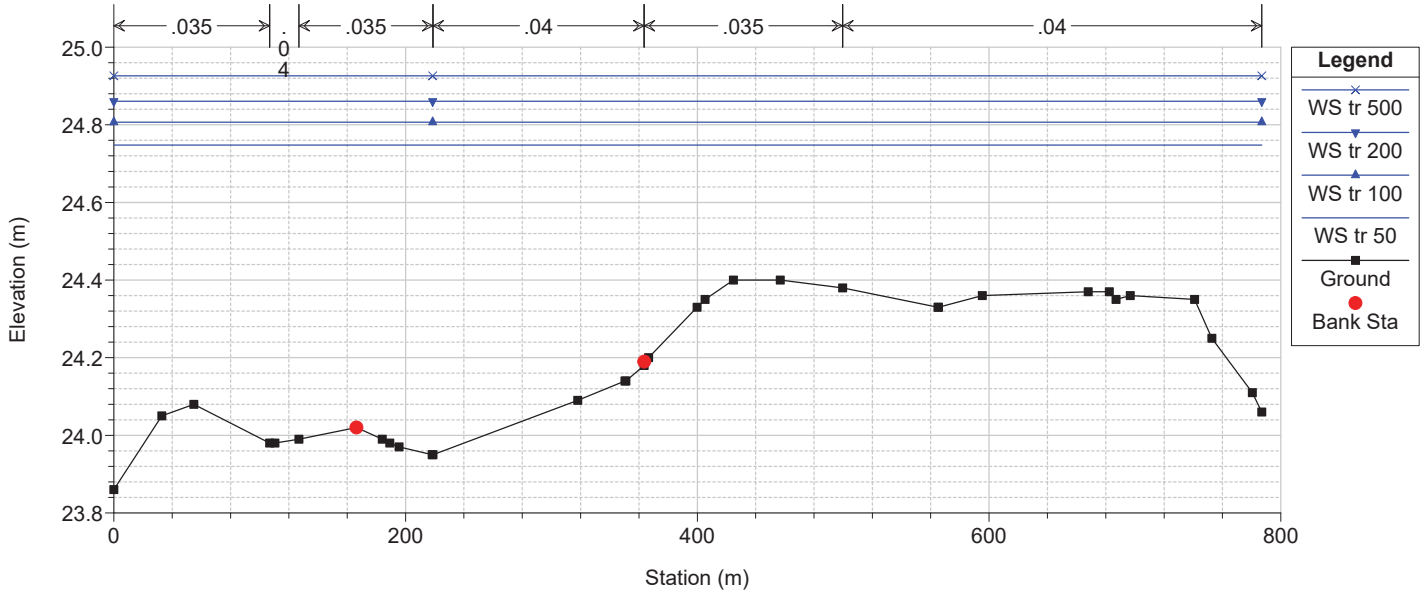
River = Can di Bonifica Reach = Asta RS = 1315.193 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

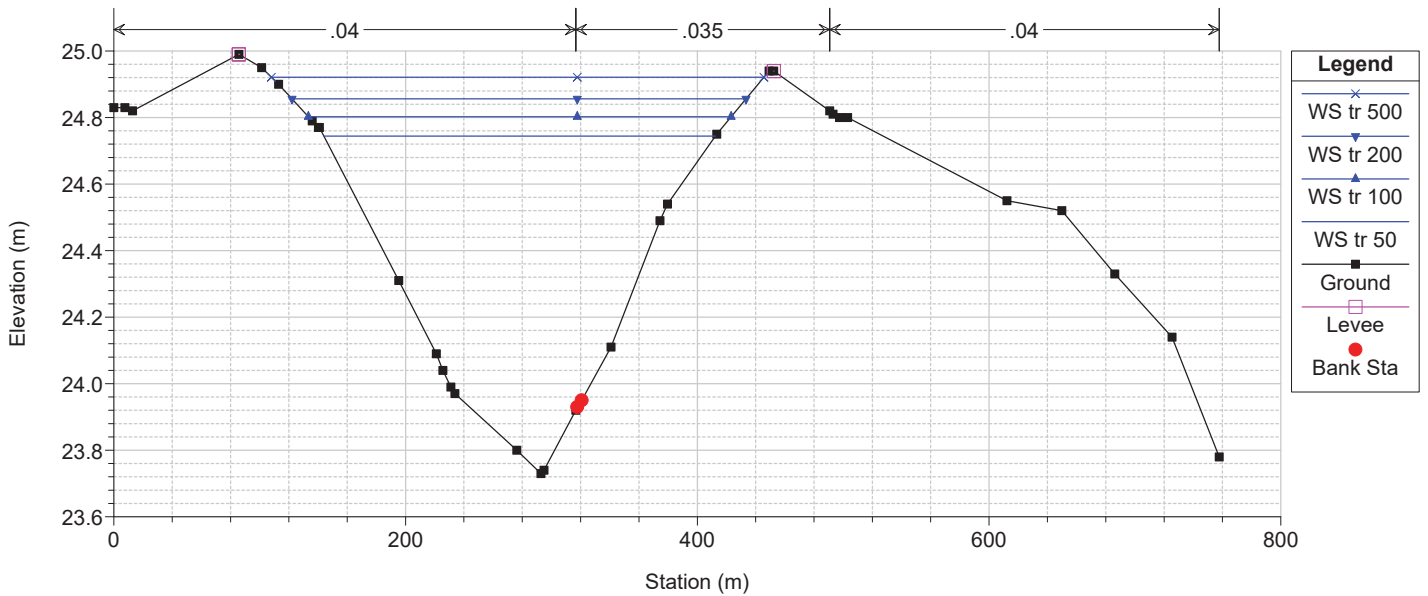
River = Can di Bonifica Reach = Asta RS = 967.8403 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

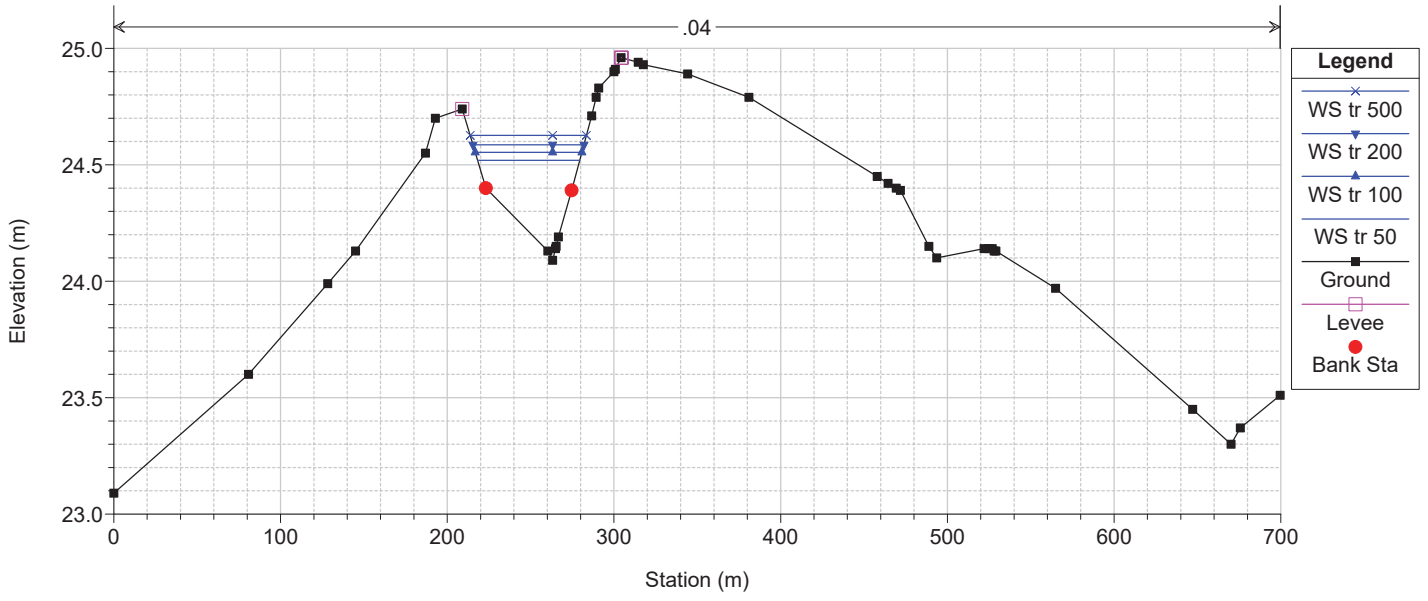
River = Can di Bonifica Reach = Asta RS = 796.602 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



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)

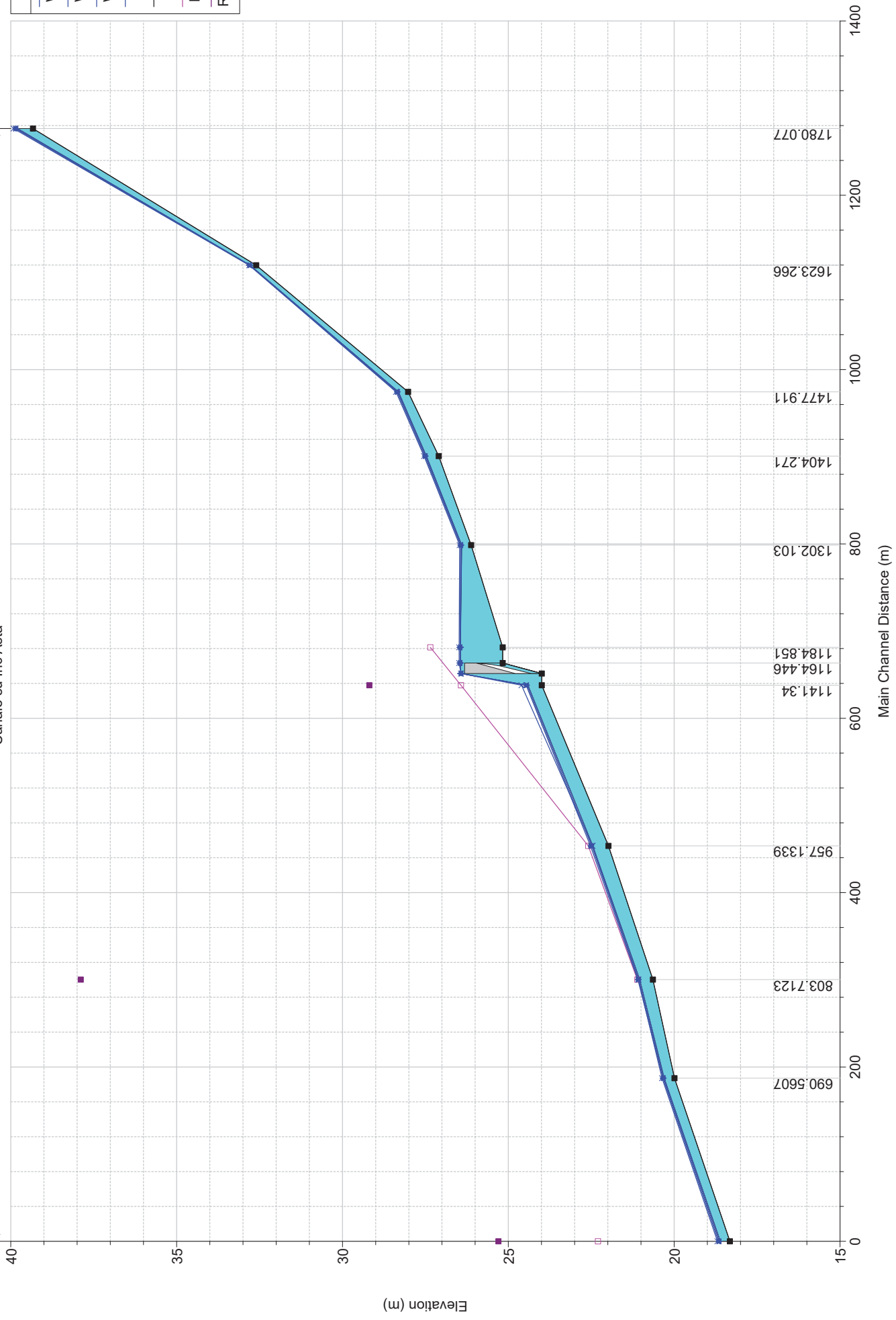
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Asta	434.3015	tr 200	30.60	24.09	24.59	24.59	24.73	0.020338	1.72	18.64	66.55	0.95
Asta	434.3015	tr 500	36.55	24.09	24.63	24.63	24.79	0.019329	1.81	21.39	69.74	0.94

urune26062017

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

Canale su Inc Asta

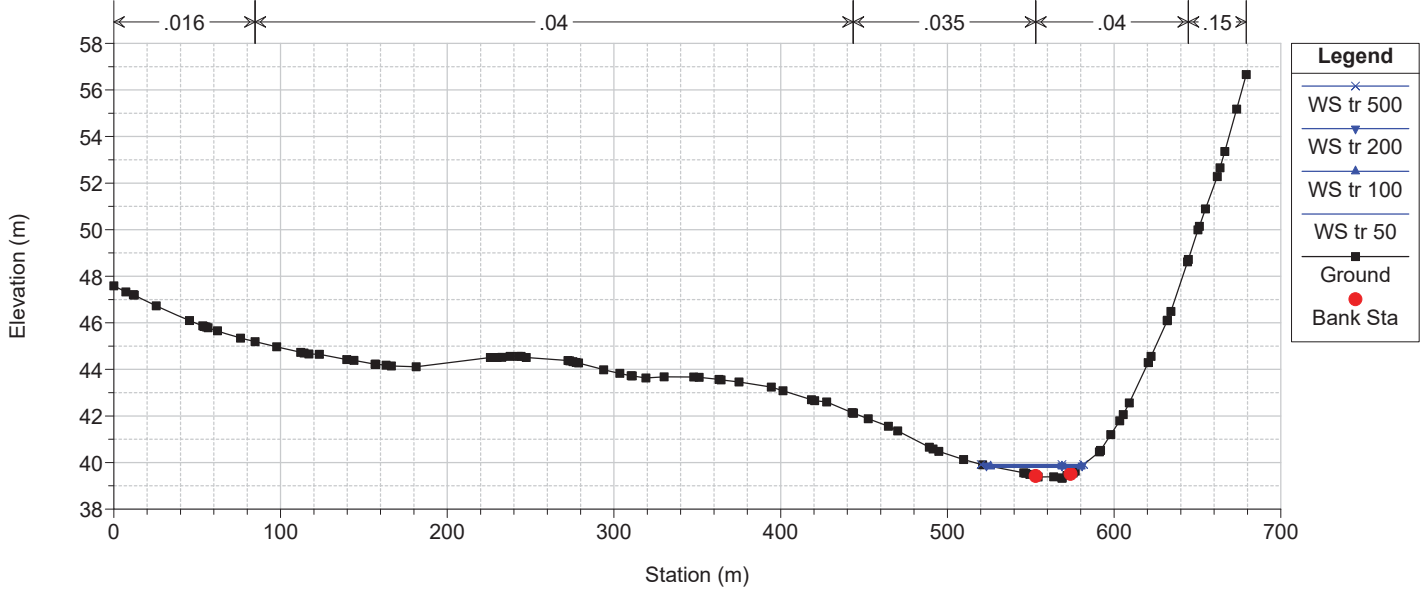
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Ground	—
Left Levee	□
Right Levee	■



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

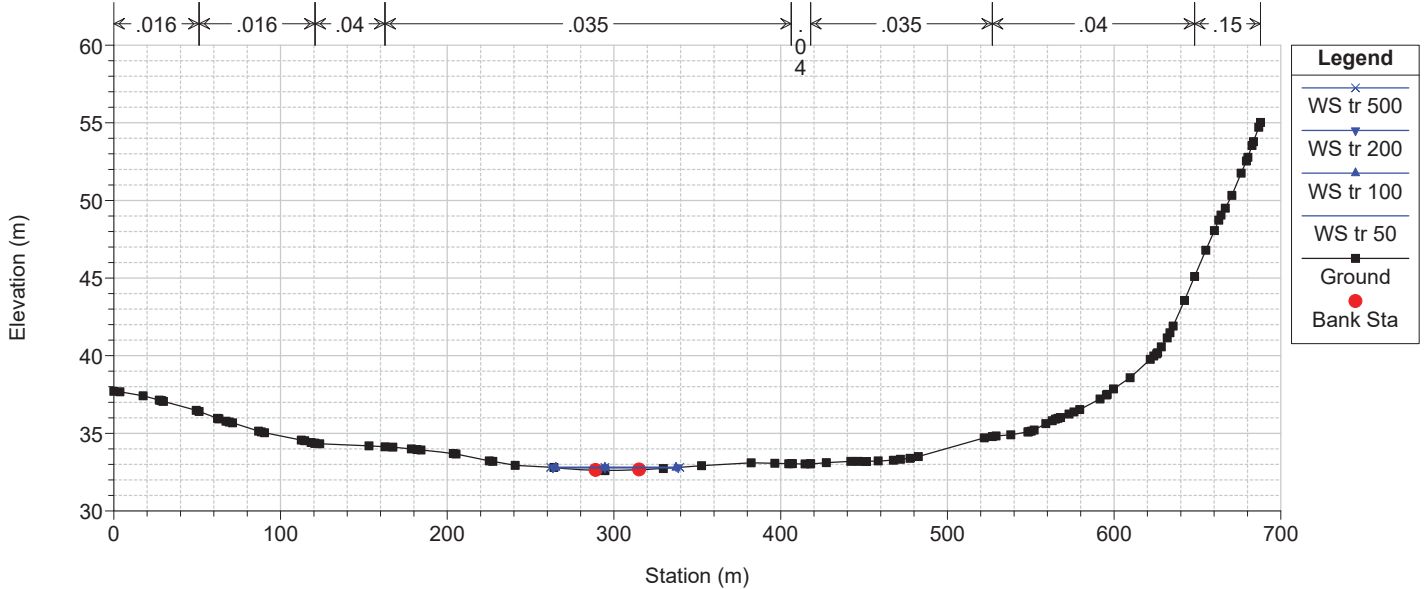
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urune26062017

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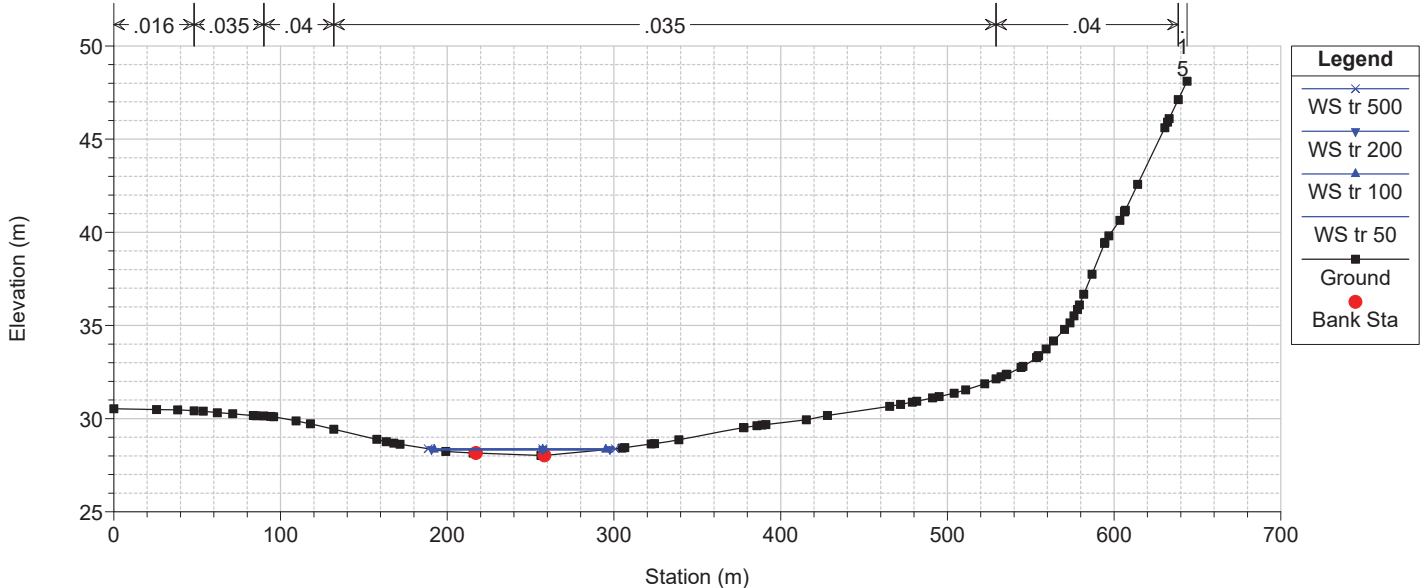
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urune26062017

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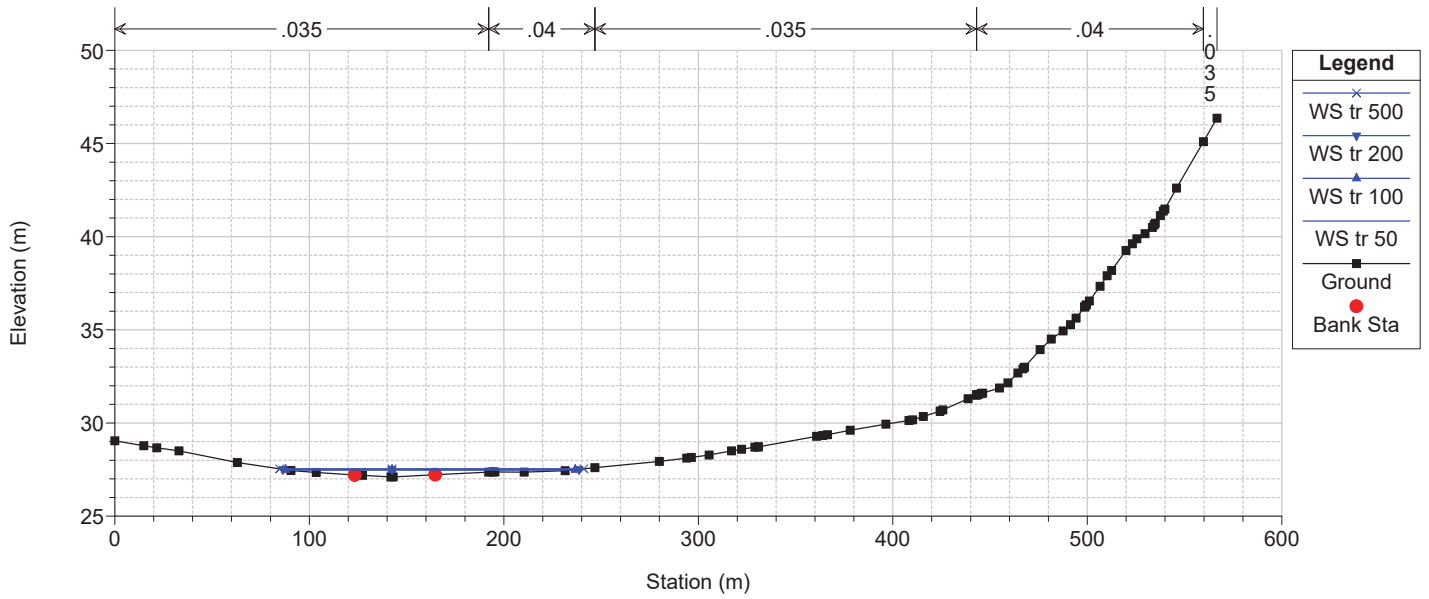
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urune26062017

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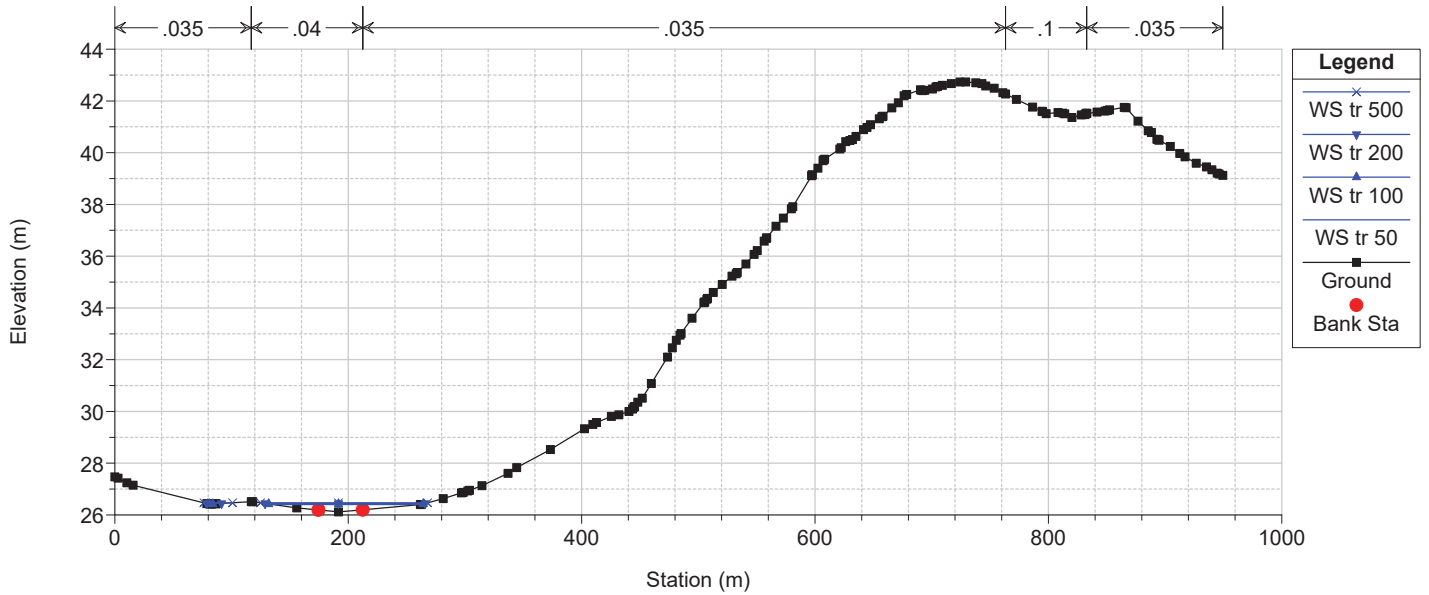
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urune26062017

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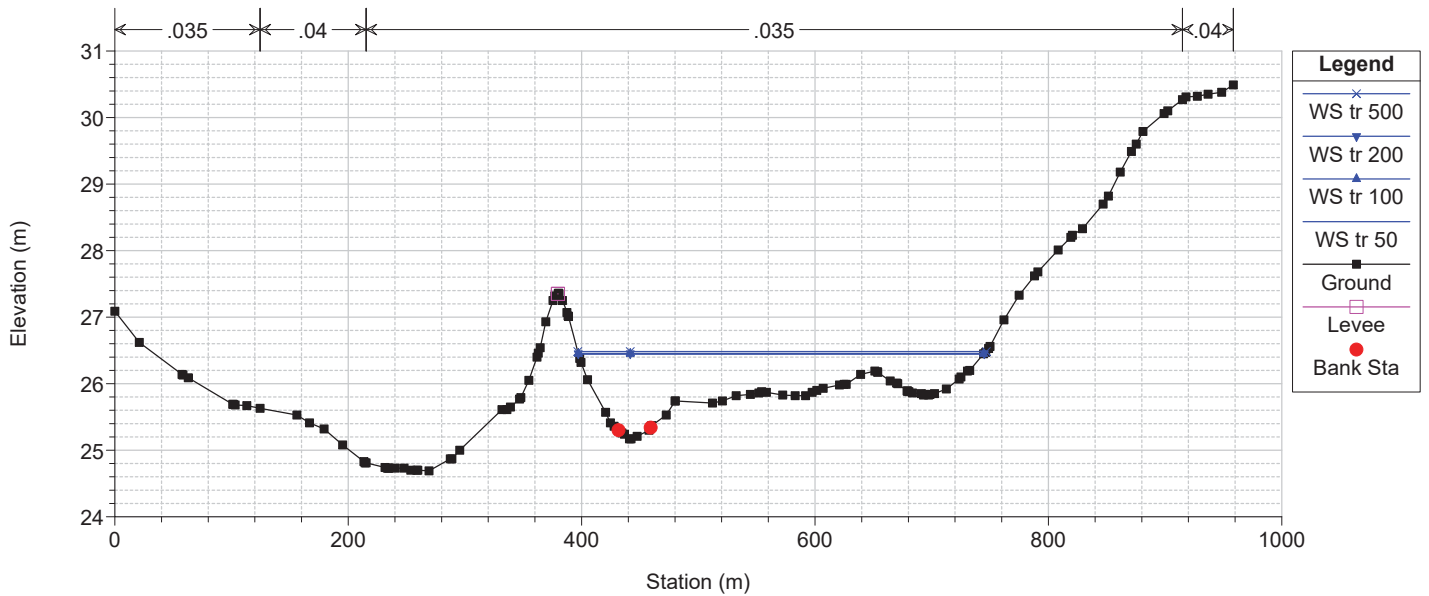
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urune26062017

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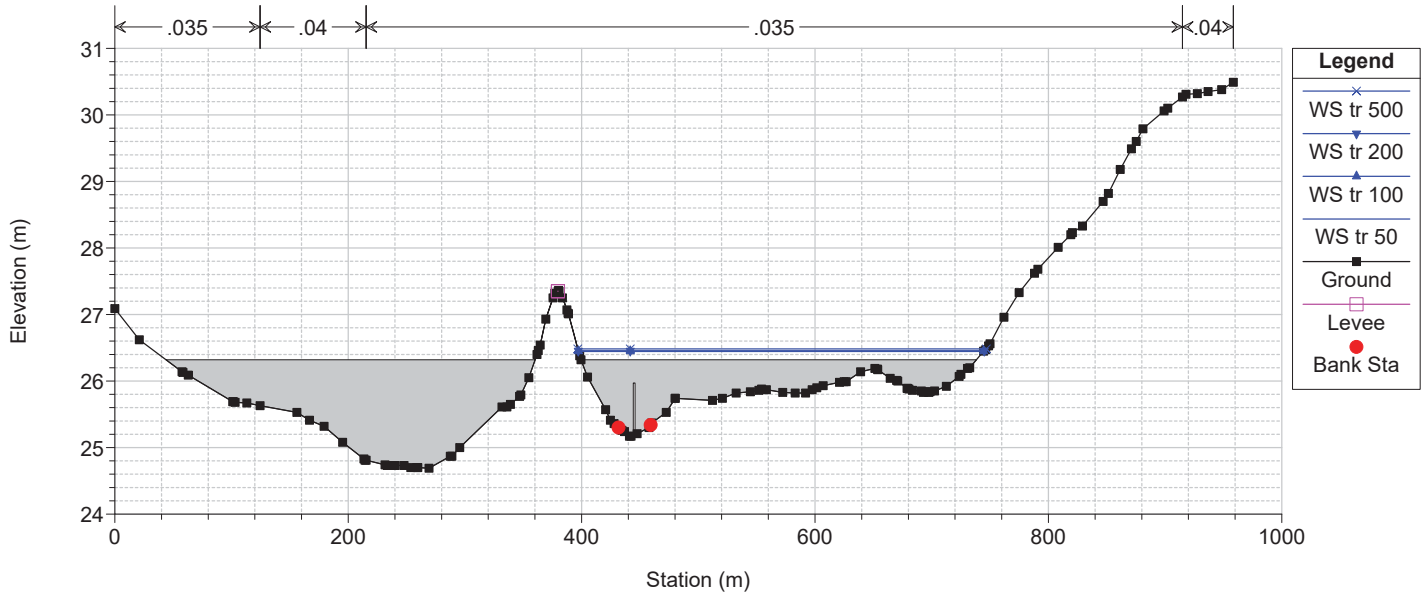
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urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

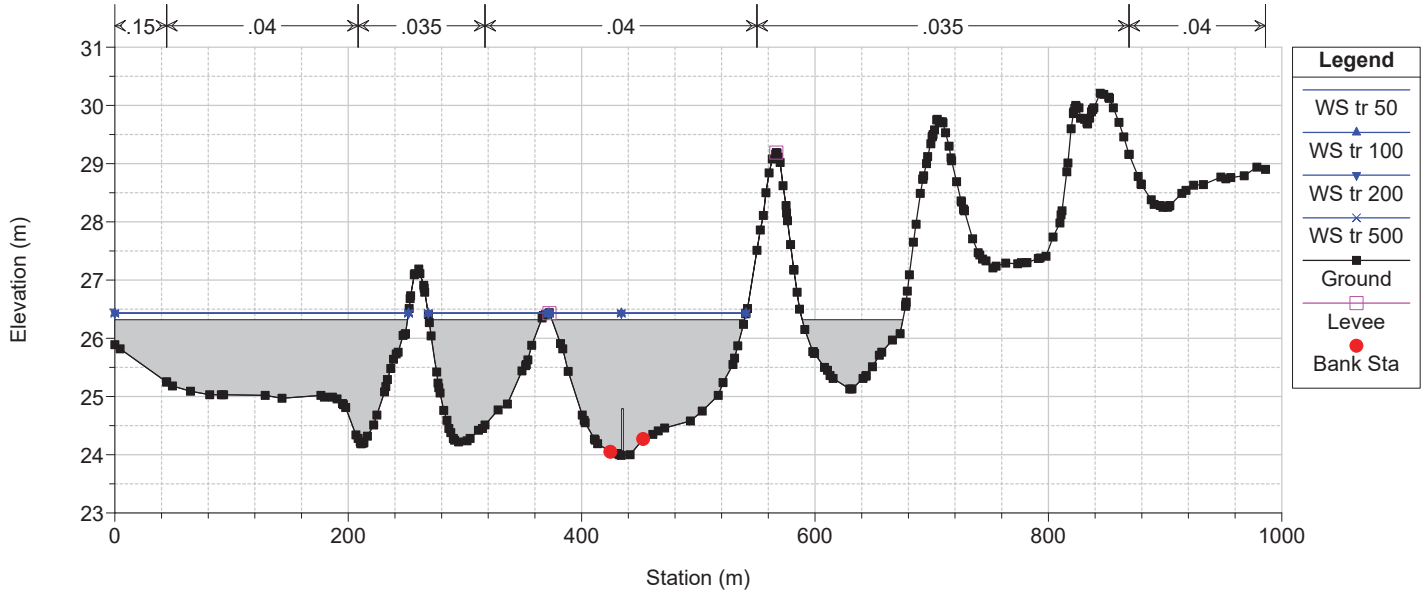
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urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

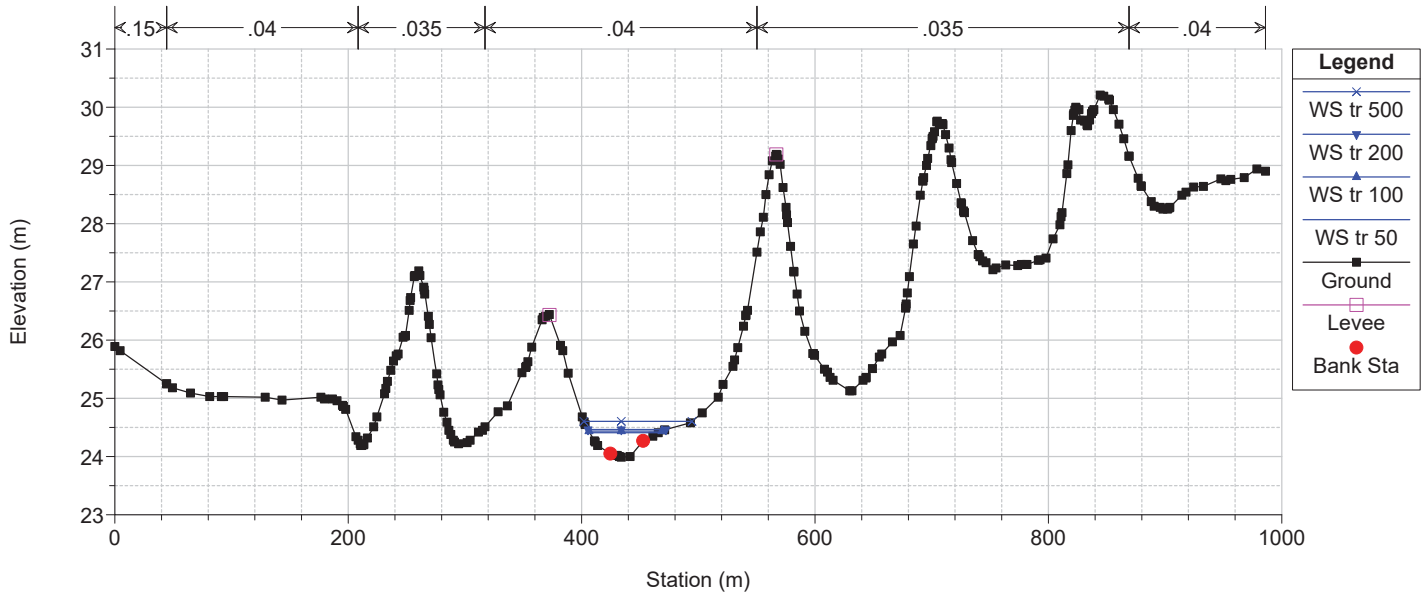
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urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

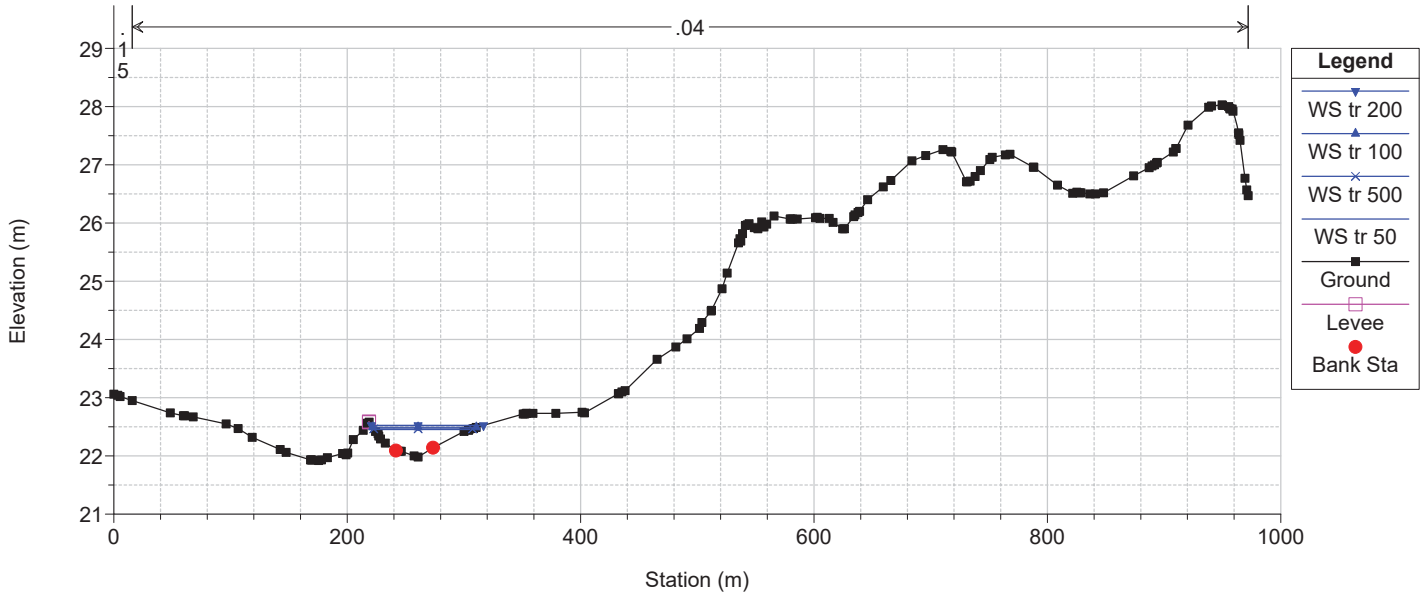
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urune26062017

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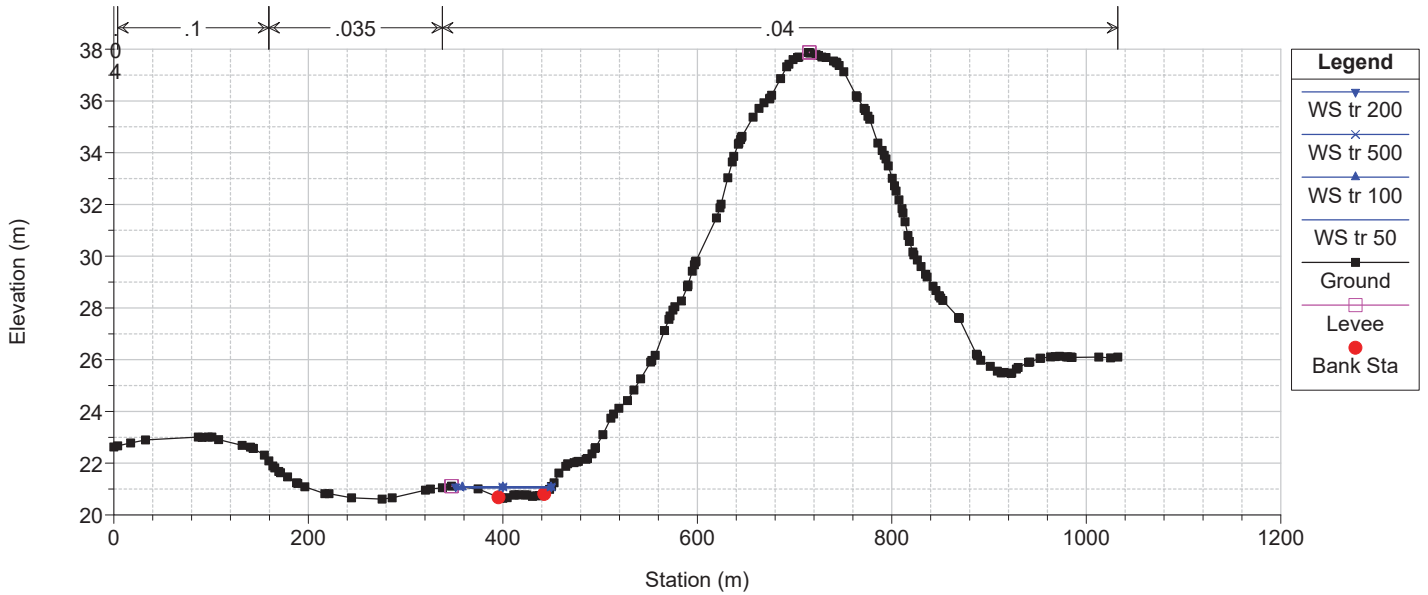
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urune26062017

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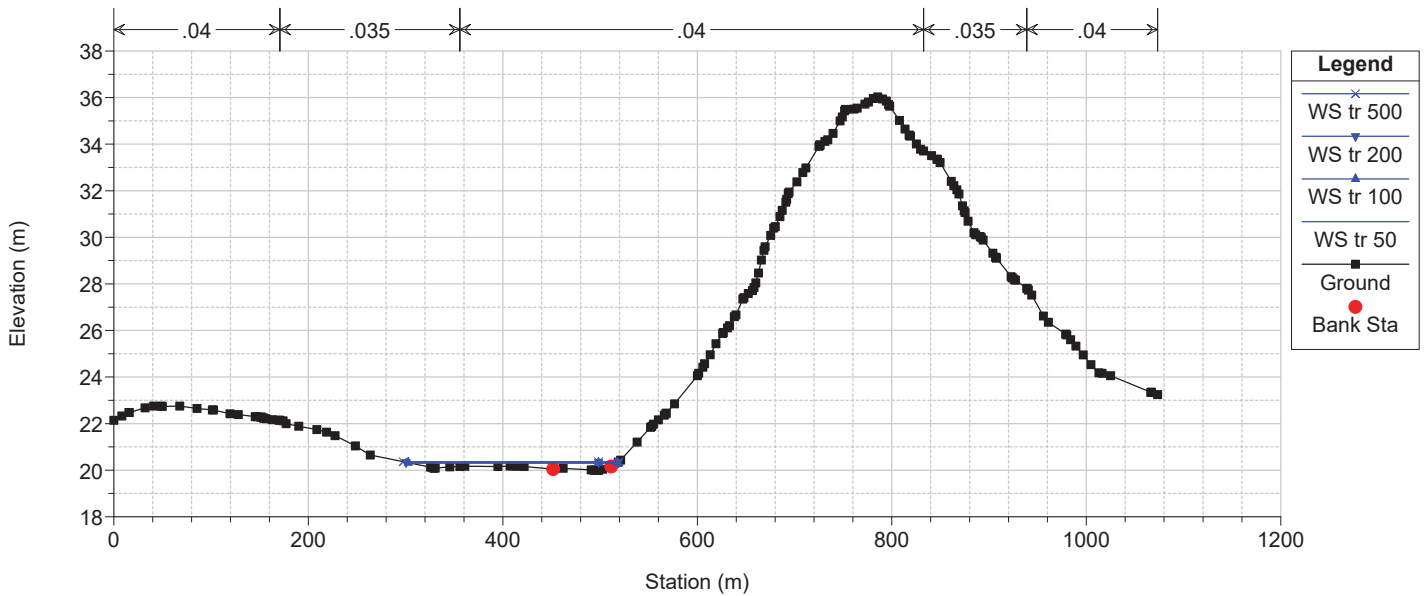
River = Canale su Inc Reach = Asta RS = 803.7123 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

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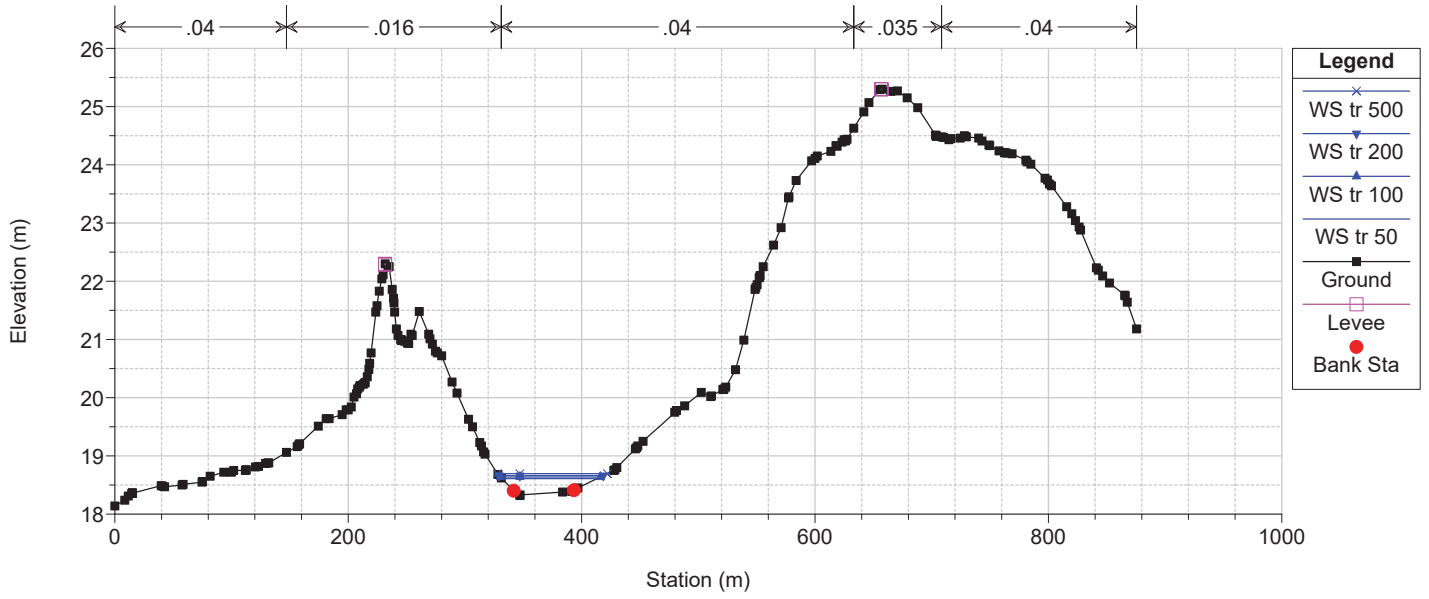
River = Canale su Inc Reach = Asta RS = 690.5607 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

River = Canale su Inc Reach = Asta RS = 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

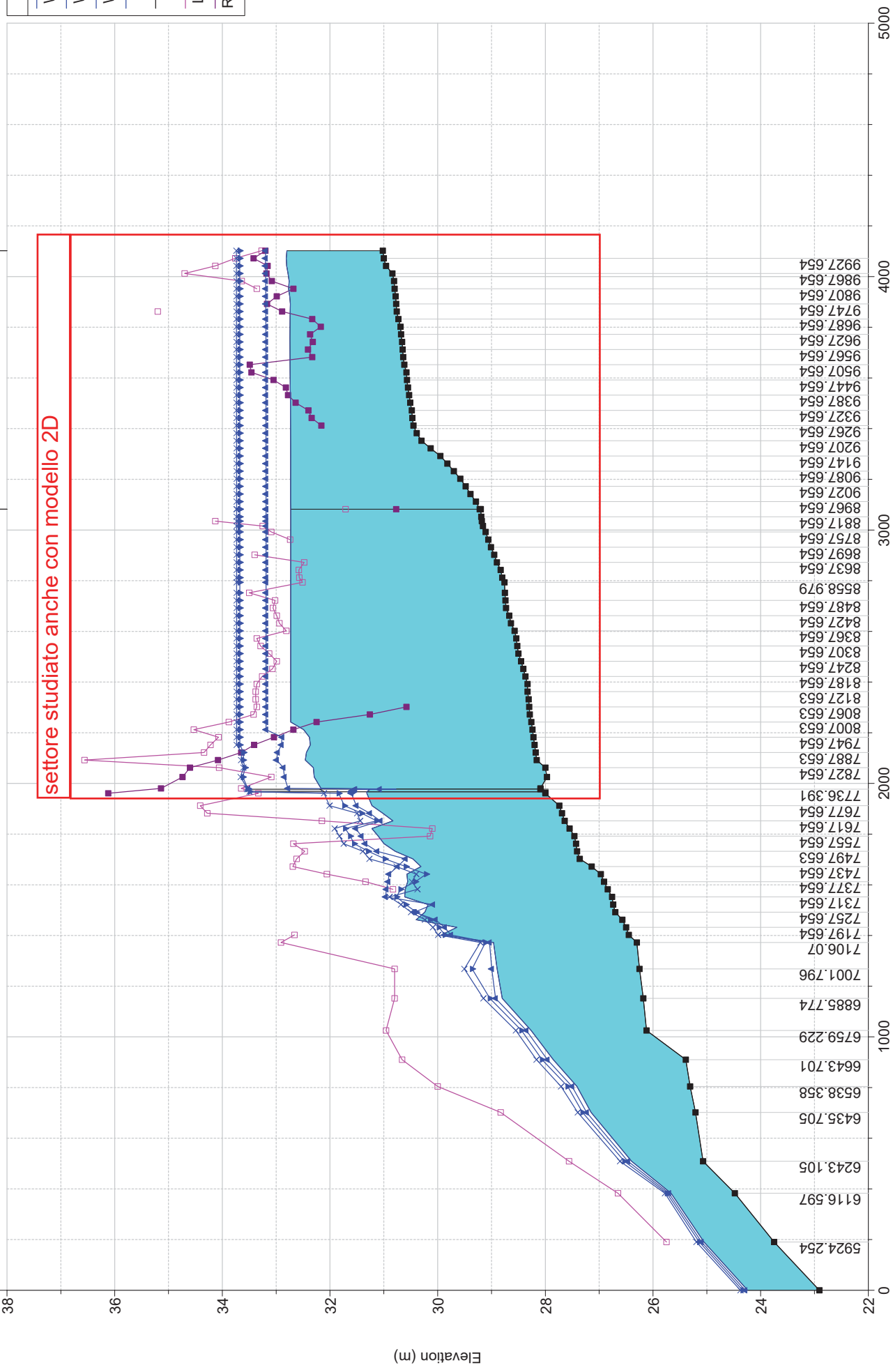
urune26062017

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

Canale urune Asta 1

Canale urune 71849

38



Legend

WS tr 500

WS tr 200

WS tr 100

WS tr 50

Ground

Left Levee

Right Levee

22

24

26

28

30

32

34

36

38

0

1000

2000

3000

4000

5000

Main Channel Distance (m)

5924.254

6116.597

6243.105

6435.705

6538.358

6643.701

6759.229

6885.774

7001.796

7106.07

7197.654

7257.654

7317.654

7377.654

7437.654

7497.653

7557.654

7617.654

7677.654

7736.391

7827.654

7887.653

7947.654

8007.653

8067.653

8127.653

8187.654

8247.654

8307.654

8367.654

8427.654

8487.654

8558.979

8637.654

8697.654

8757.654

8817.654

8897.654

9027.654

9087.654

9147.654

9207.654

9267.654

9327.654

9387.654

9447.654

9507.654

9567.654

9627.654

9687.654

9747.654

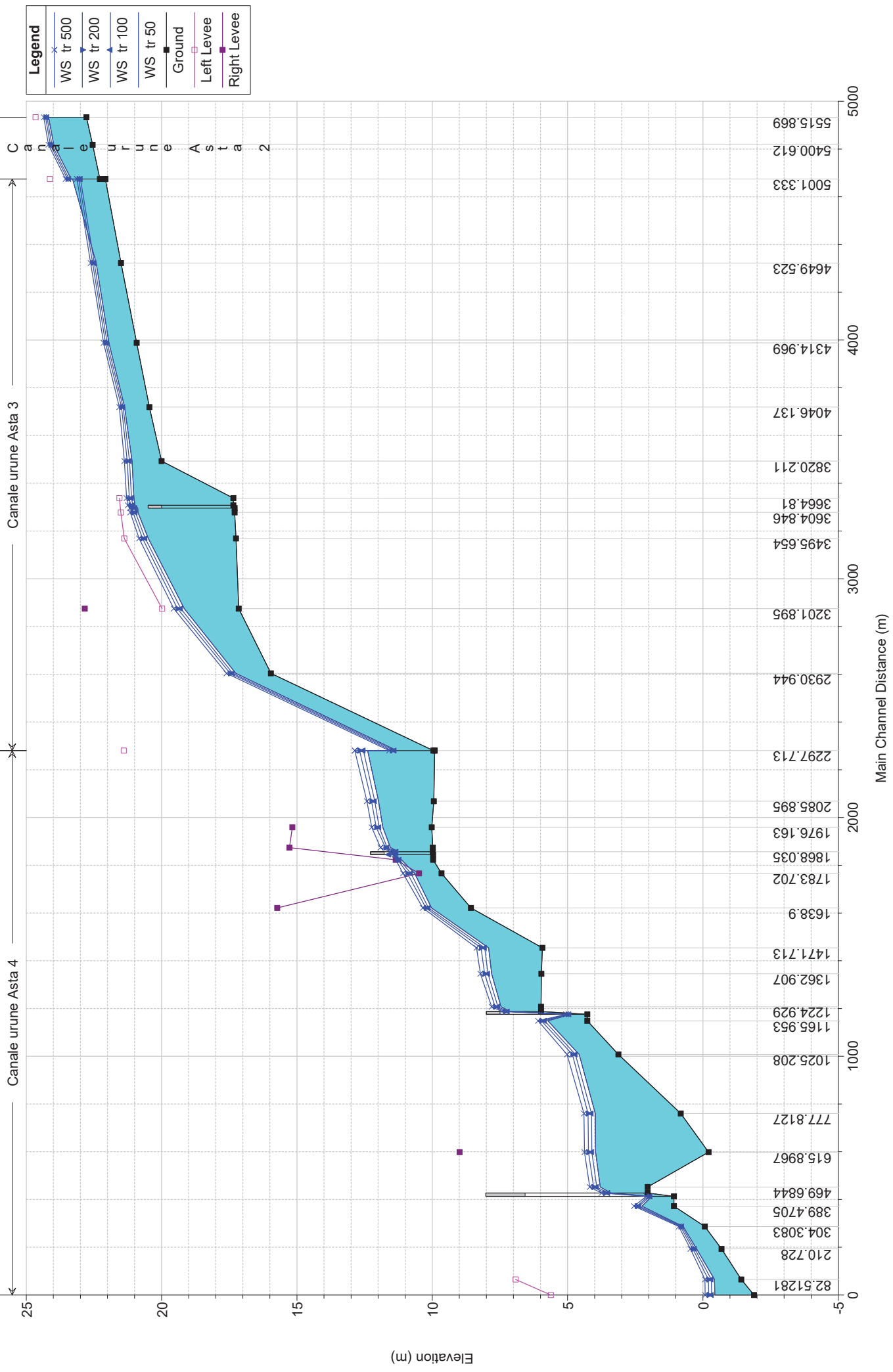
9807.654

9867.654

9927.654

urune26062017

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

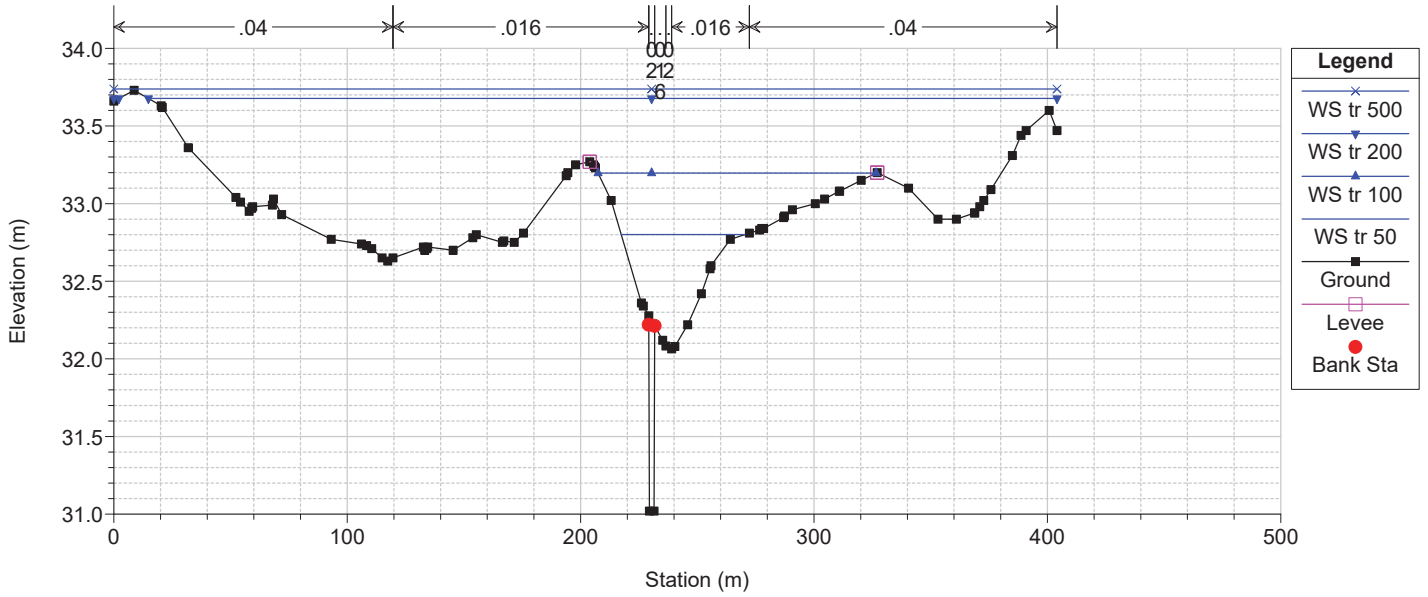


Legend	
WS tr 500	Blue line with 'x' markers
WS tr 200	Blue line with 'v' markers
WS tr 100	Blue line with '▲' markers
WS tr 50	Blue line with '■' markers
Ground	Black line
Left Levee	Pink line with square markers
Right Levee	Pink line with square markers

urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

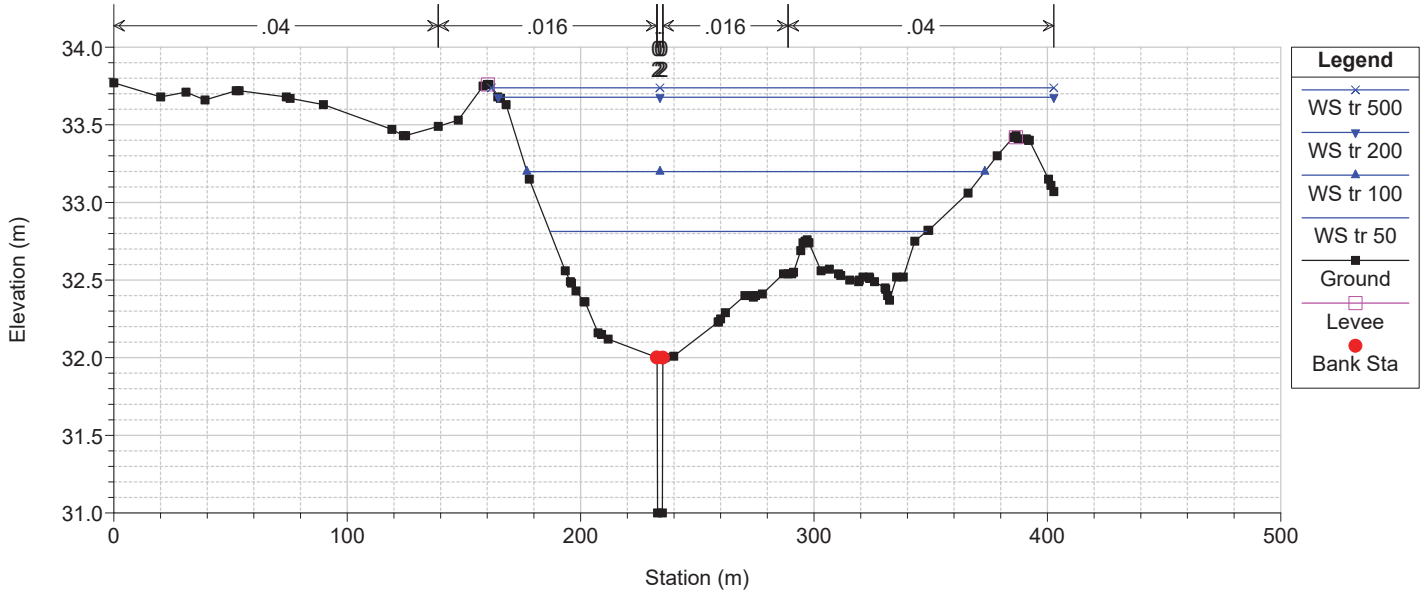
River = Canale urune Reach = 71849 RS = 9957.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

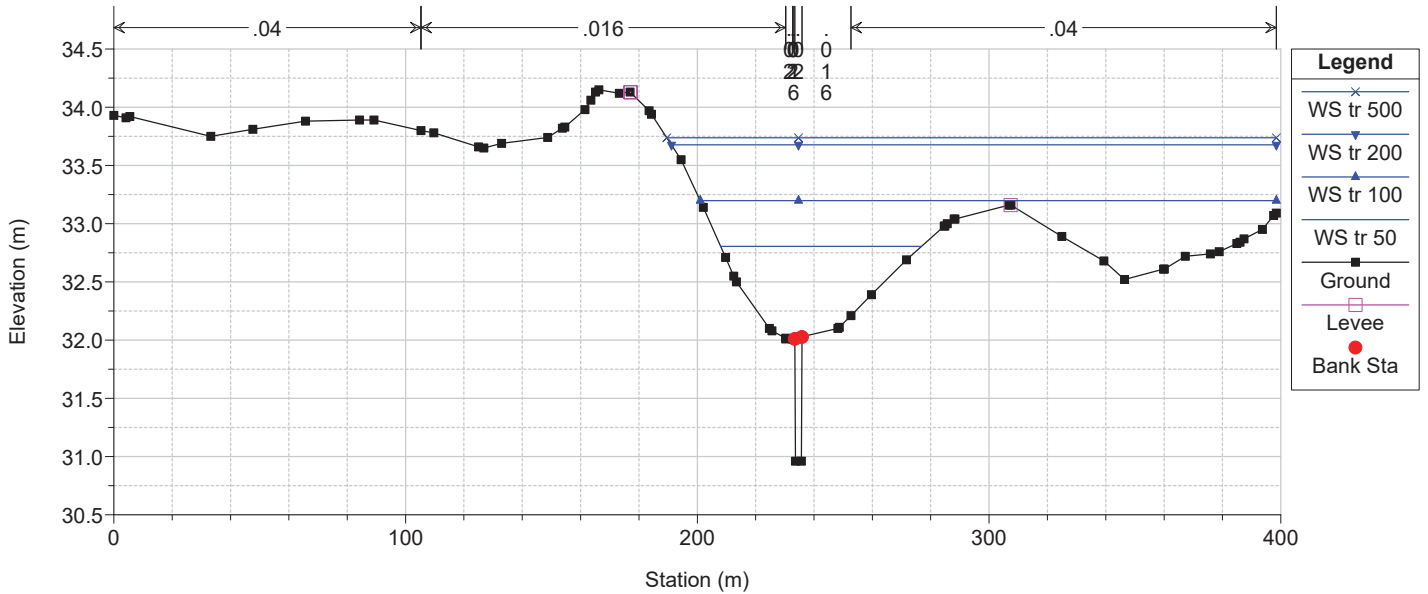
River = Canale urune Reach = 71849 RS = 9927.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

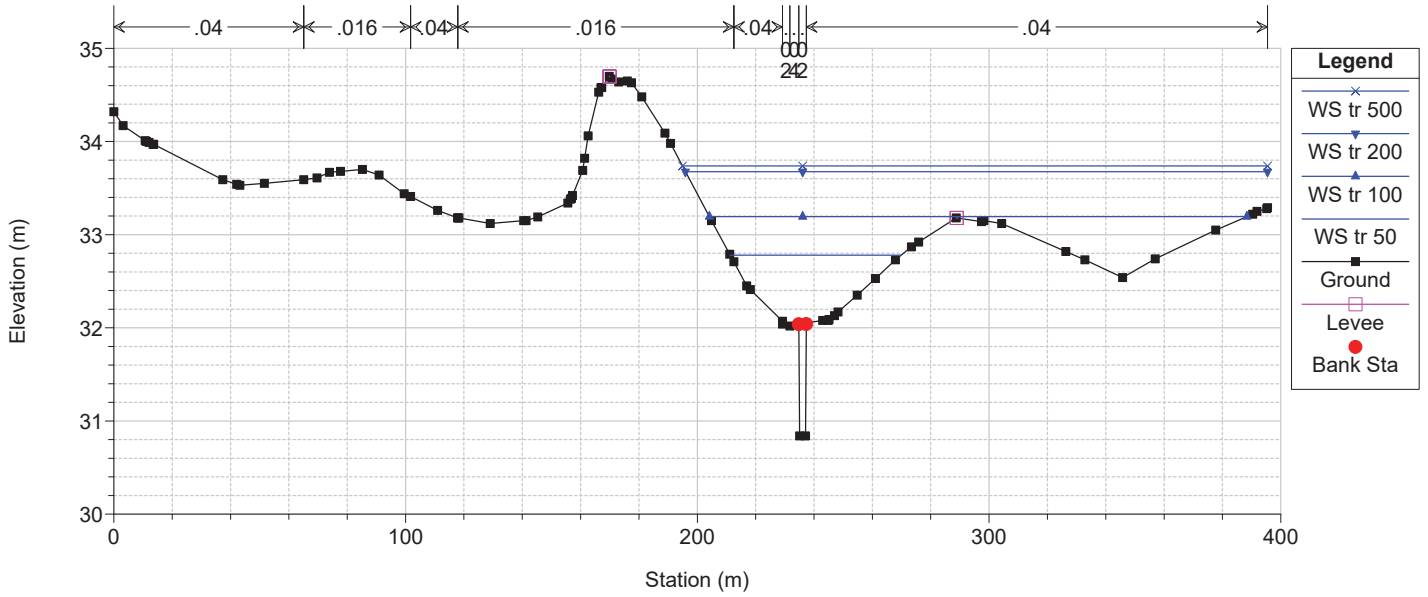
River = Canale urune Reach = 71849 RS = 9897.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

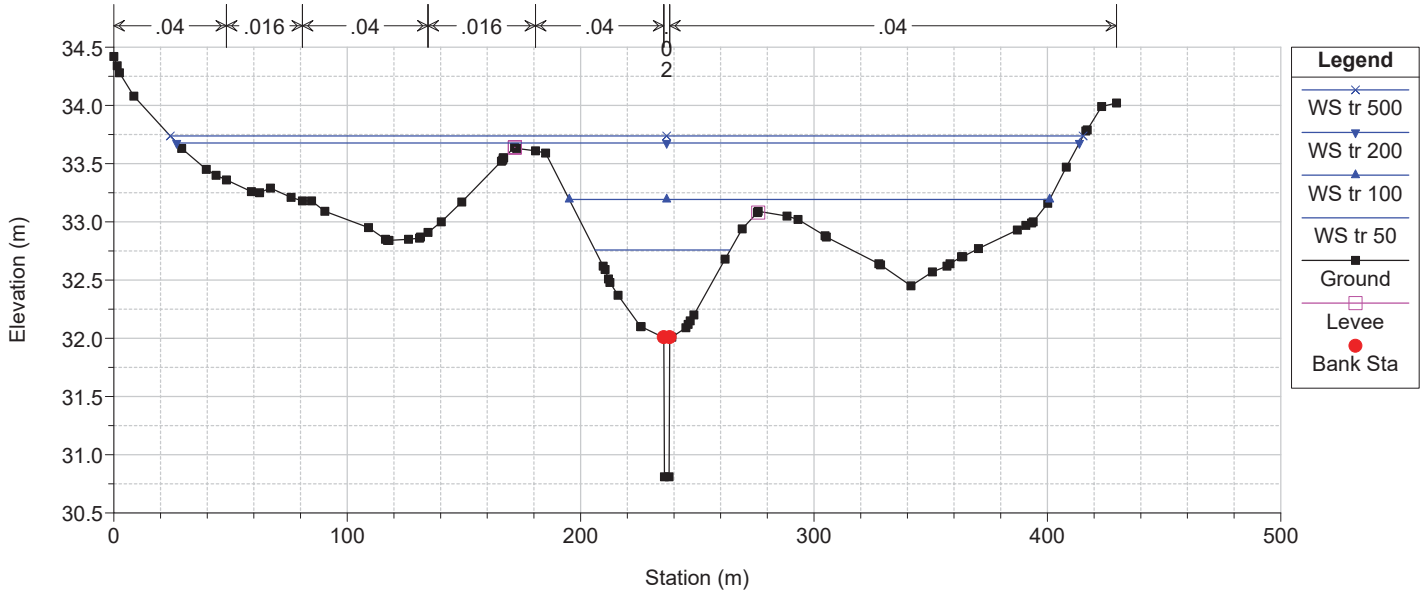
River = Canale urune Reach = 71849 RS = 9867.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

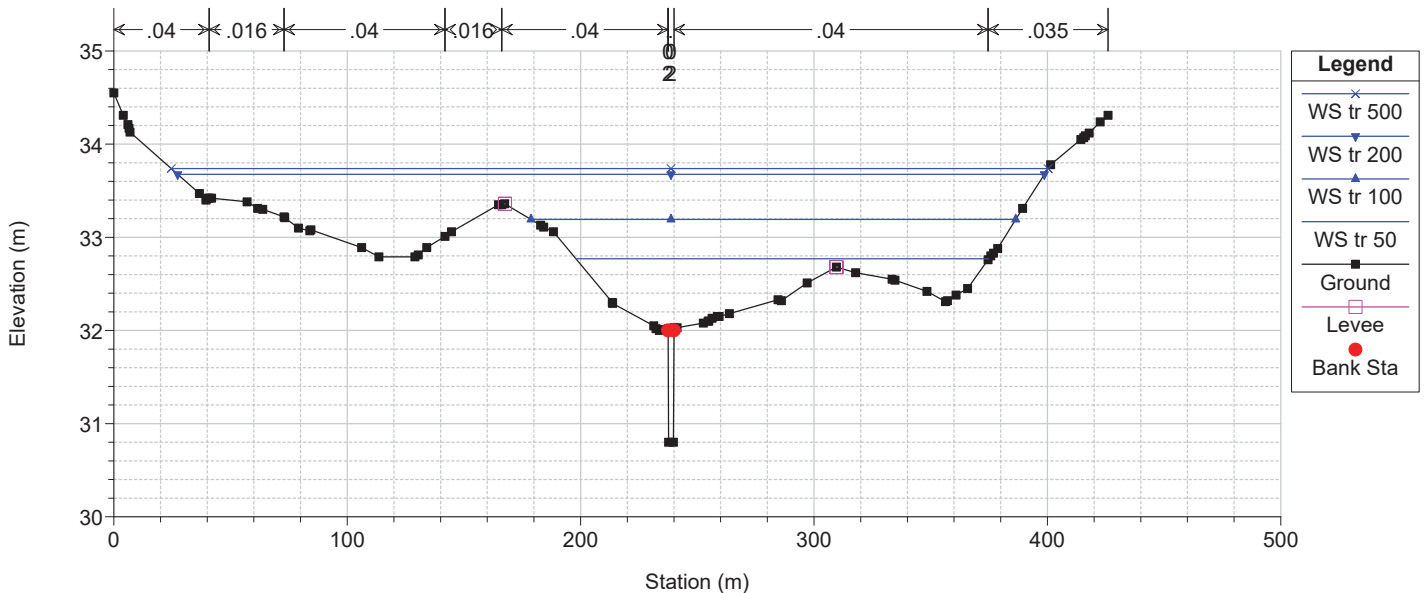
River = Canale urune Reach = 71849 RS = 9837.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

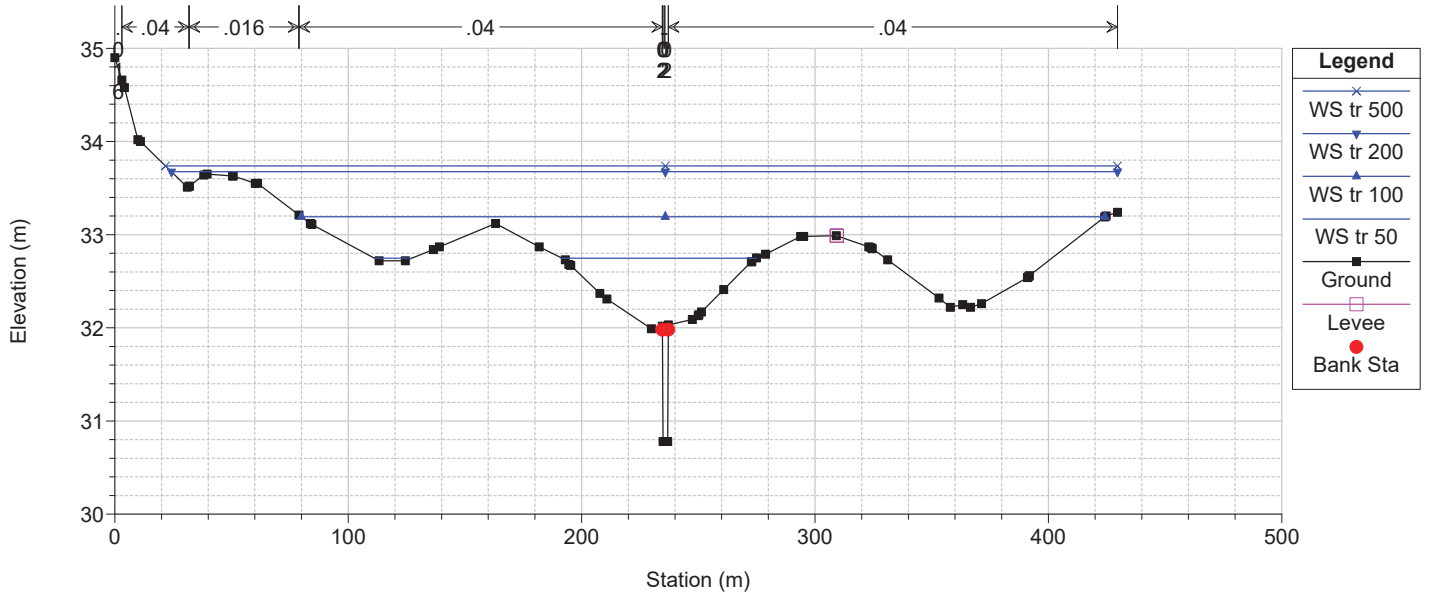
River = Canale urune Reach = 71849 RS = 9807.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

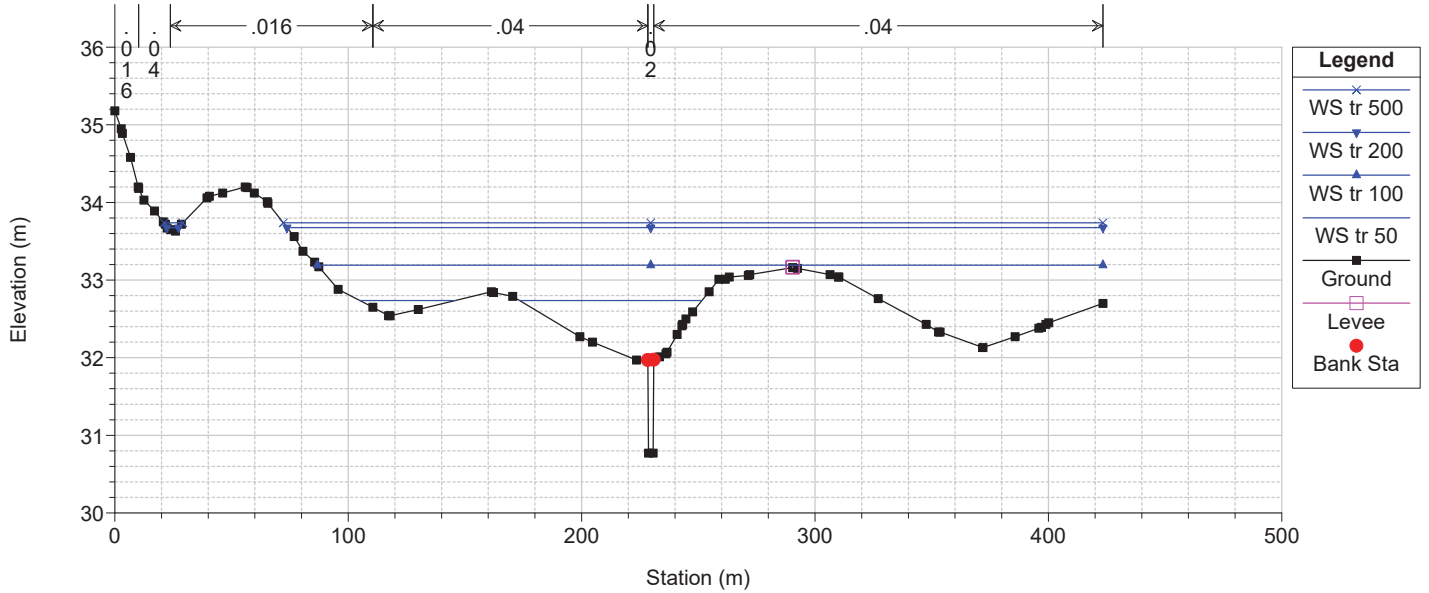
River = Canale urune Reach = 71849 RS = 9777.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

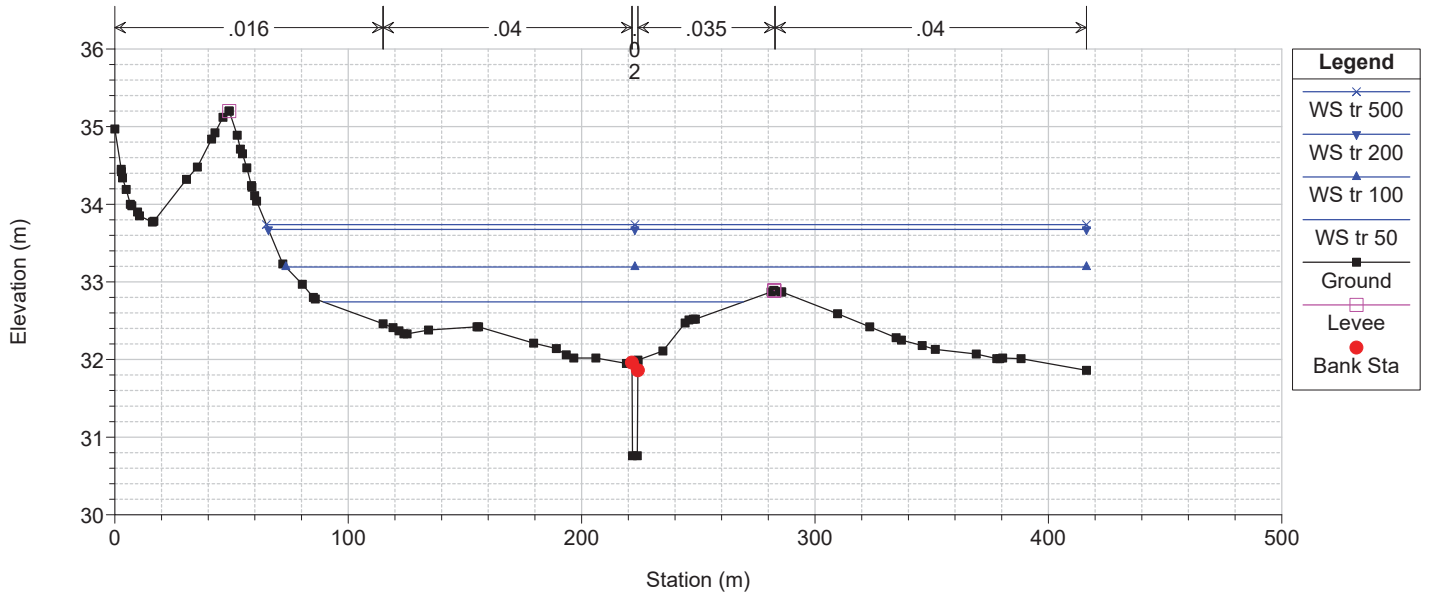
River = Canale urune Reach = 71849 RS = 9747.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

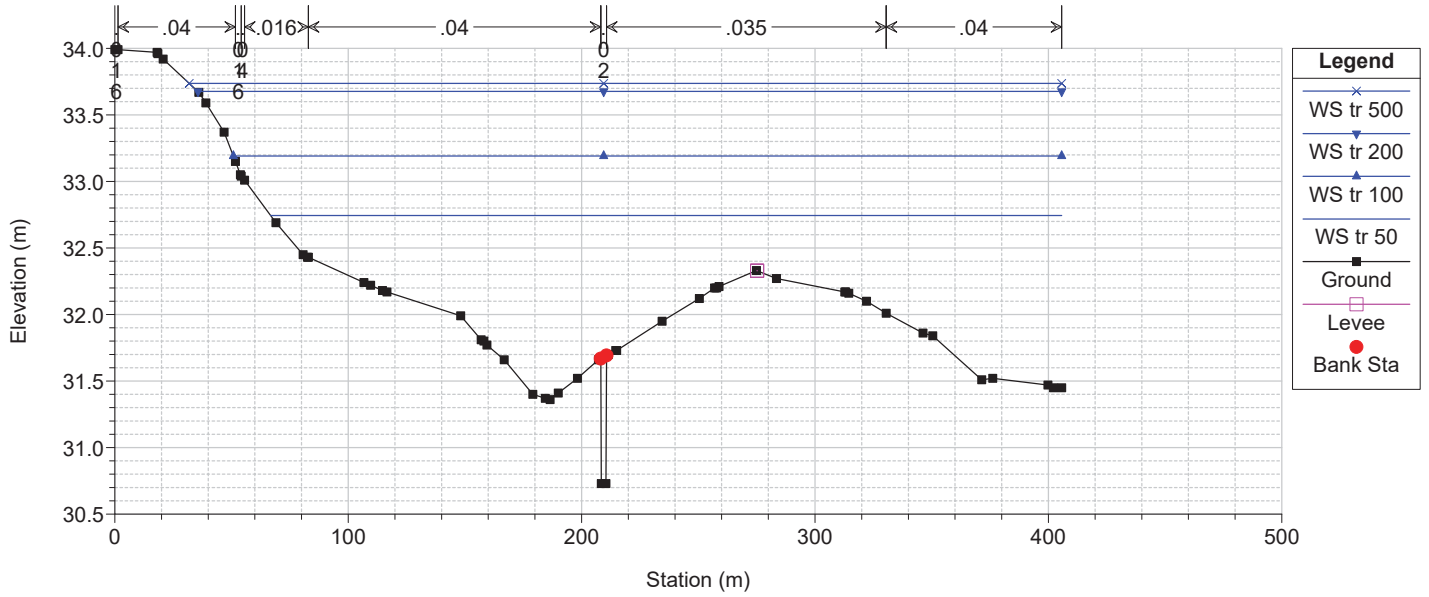
River = Canale urune Reach = 71849 RS = 9717.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

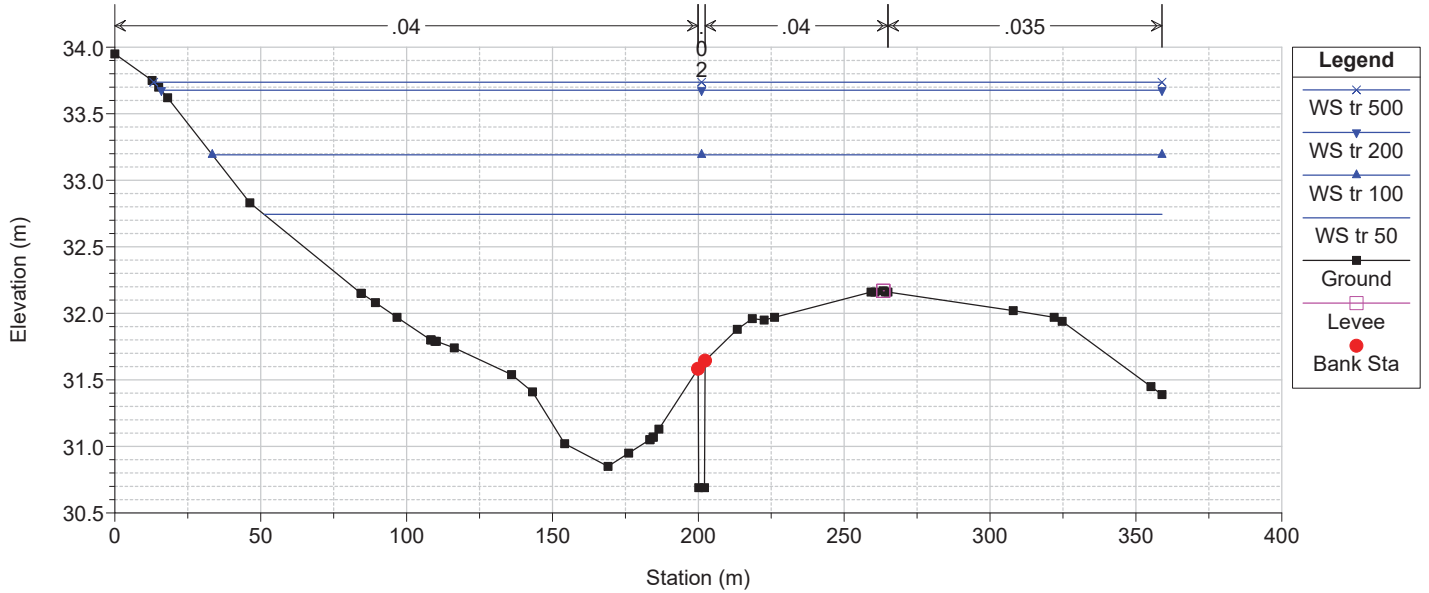
River = Canale urune Reach = 71849 RS = 9687.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

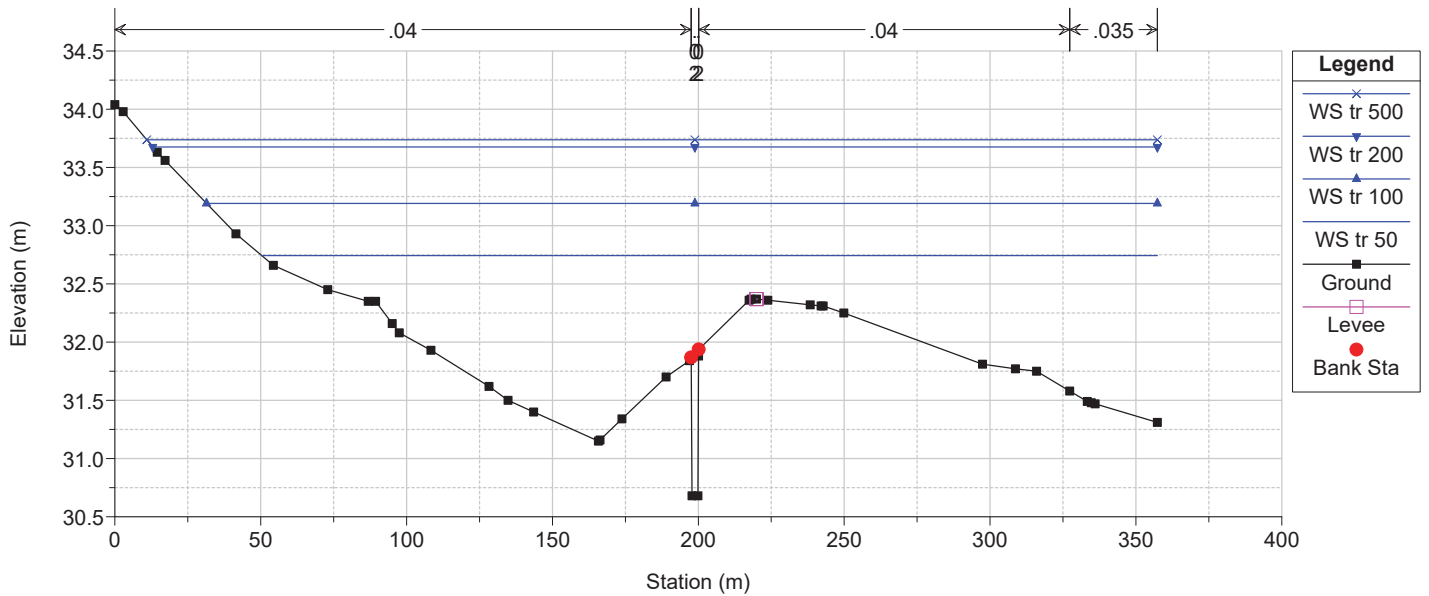
River = Canale urune Reach = 71849 RS = 9657.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

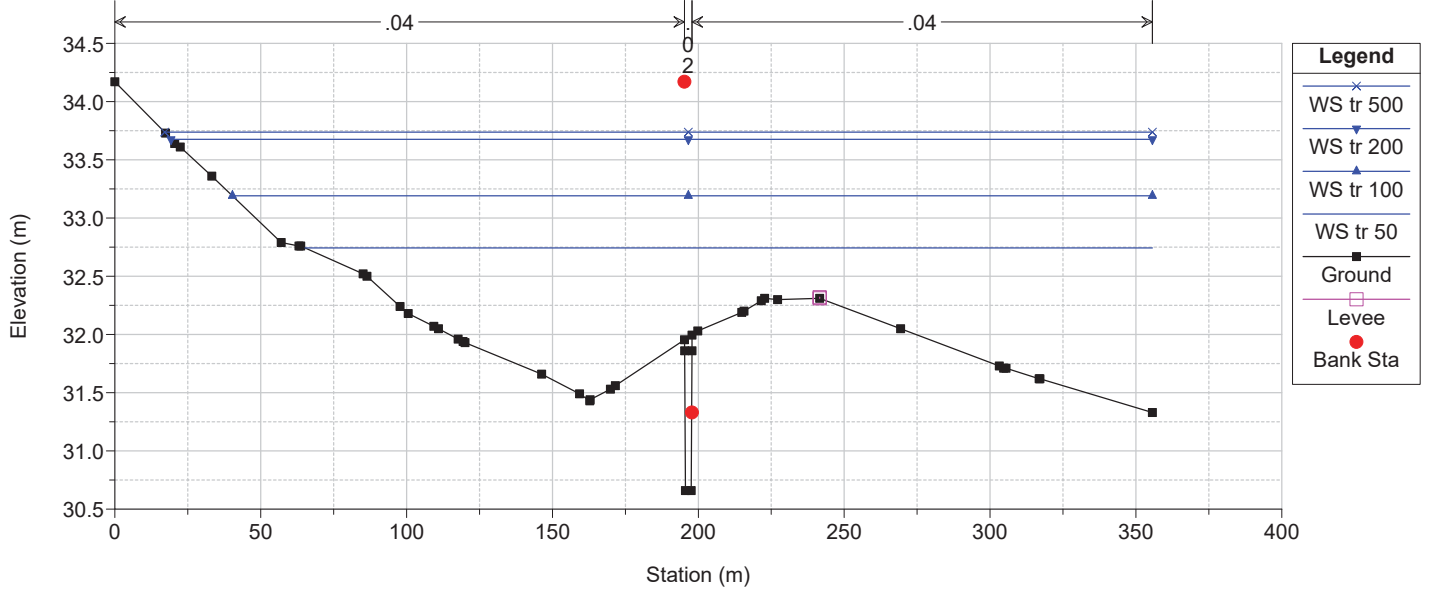
River = Canale urune Reach = 71849 RS = 9627.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

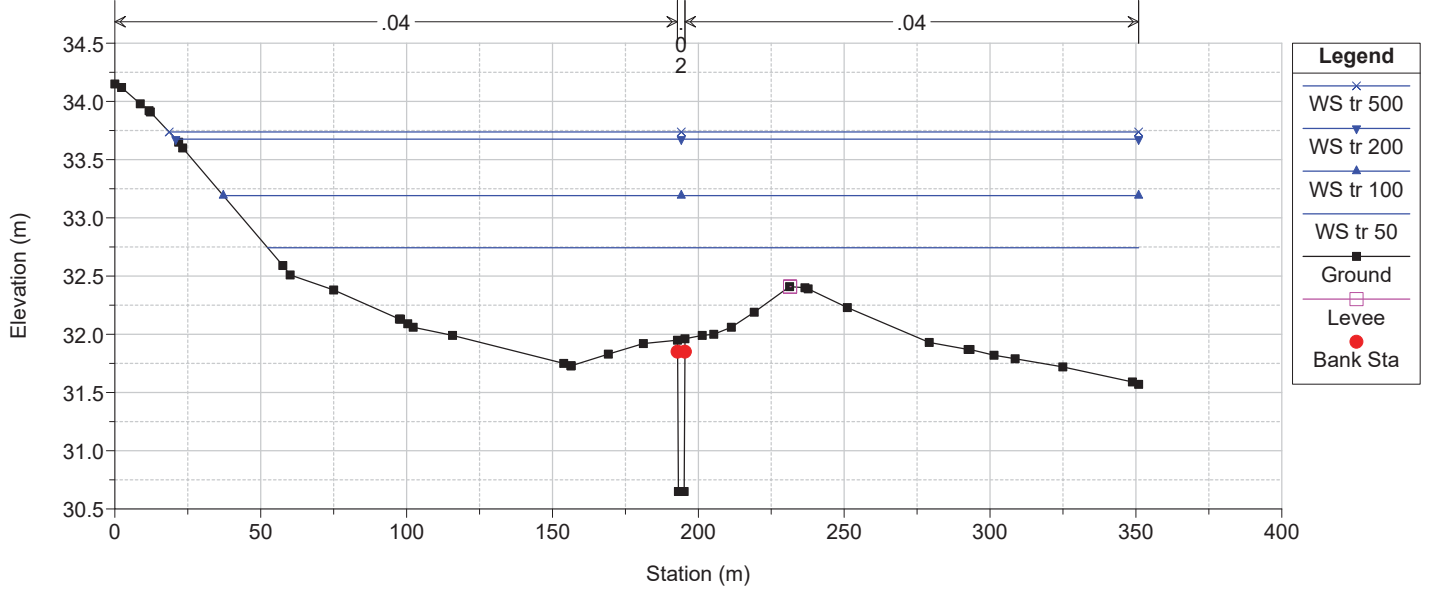
River = Canale urune Reach = 71849 RS = 9597.654 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

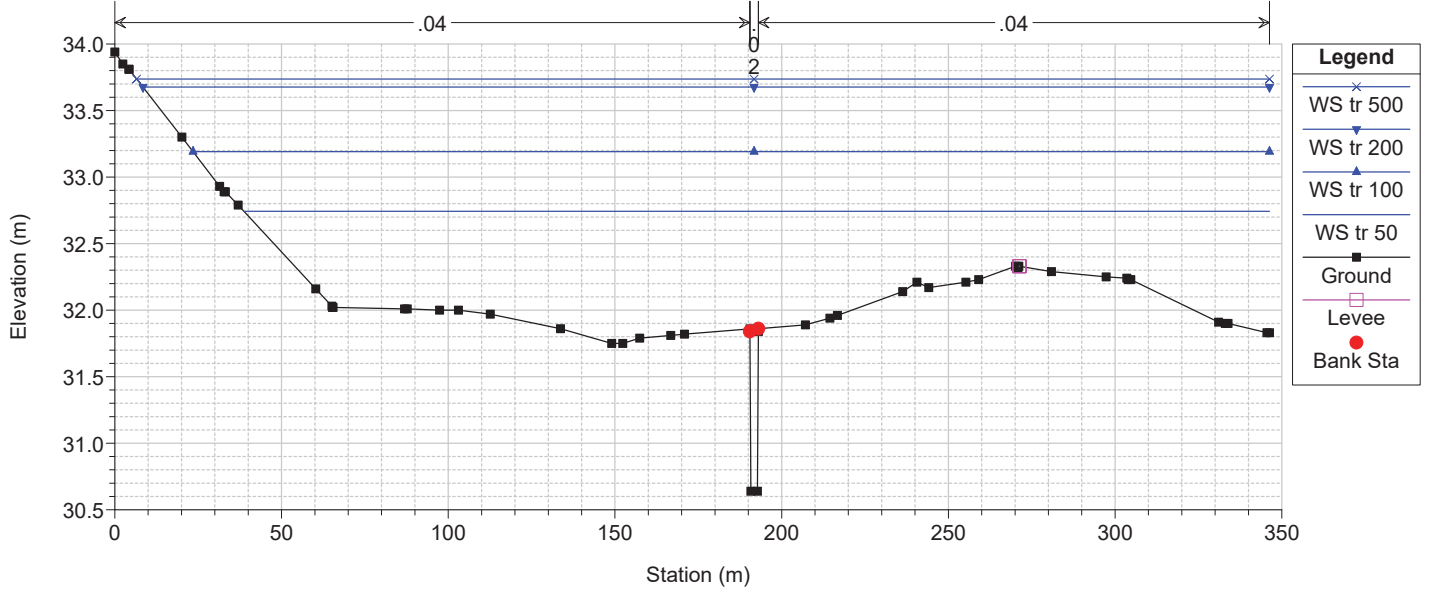
River = Canale urune Reach = 71849 RS = 9567.654 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

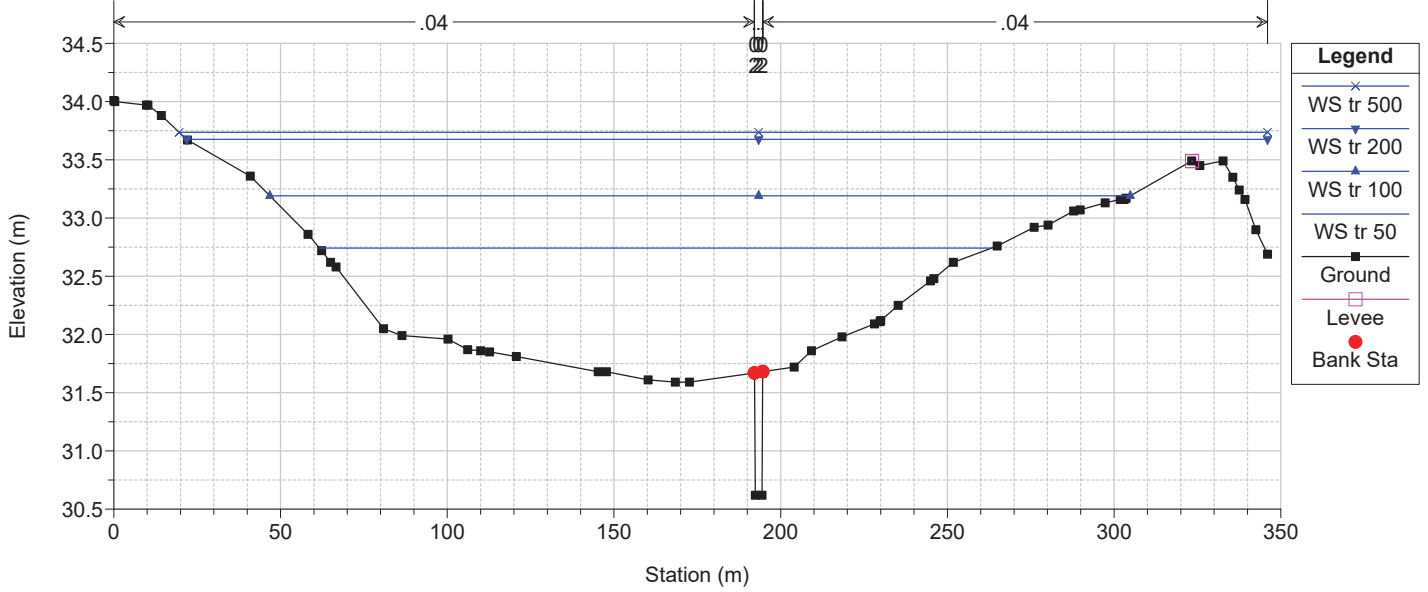
River = Canale urune Reach = 71849 RS = 9537.654 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

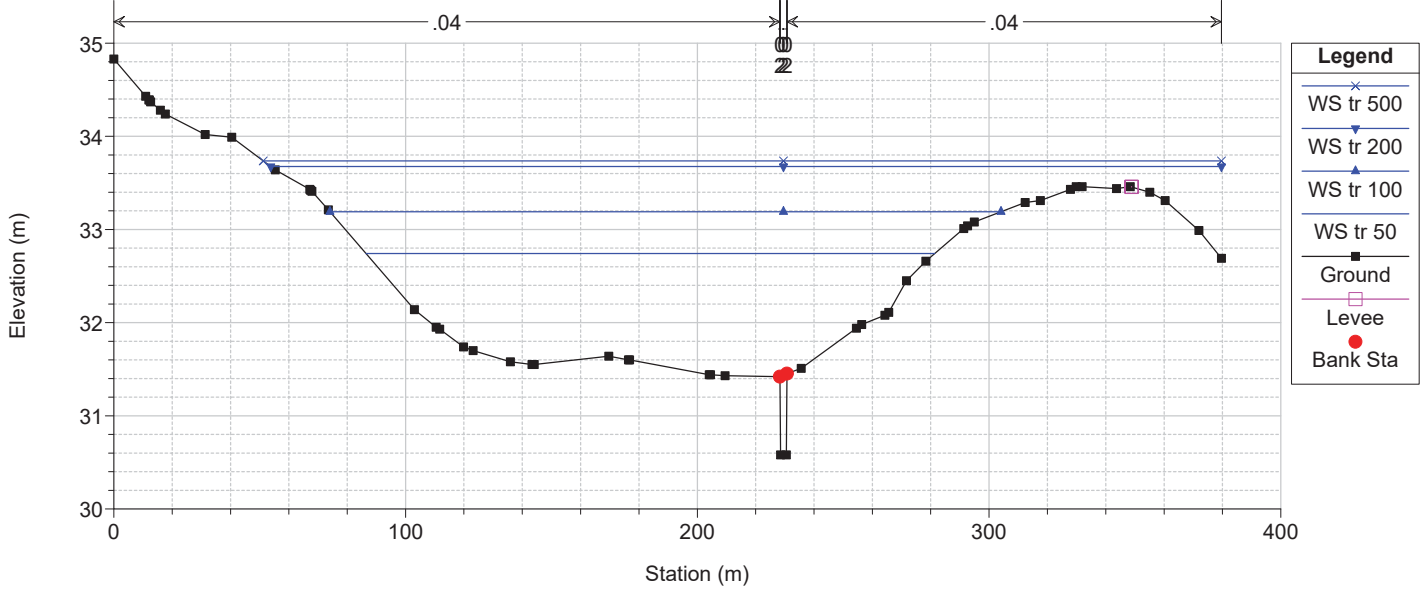
River = Canale urune Reach = 71849 RS = 9507.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

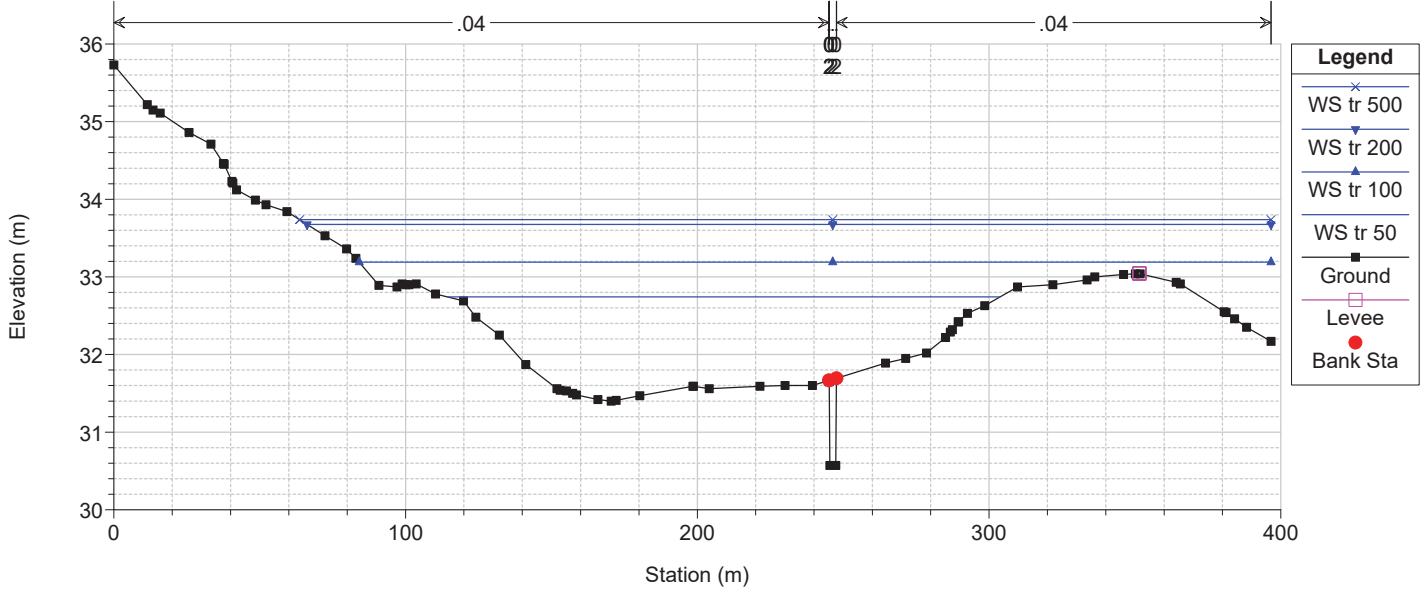
River = Canale urune Reach = 71849 RS = 9477.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

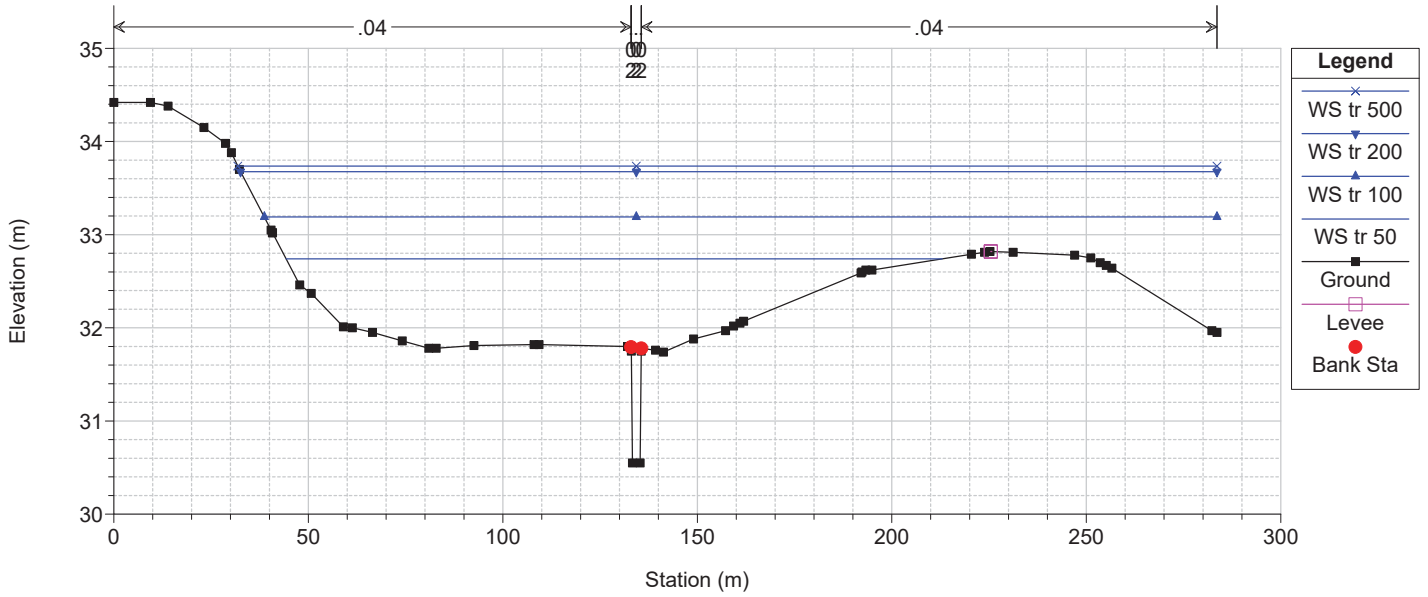
River = Canale urune Reach = 71849 RS = 9447.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

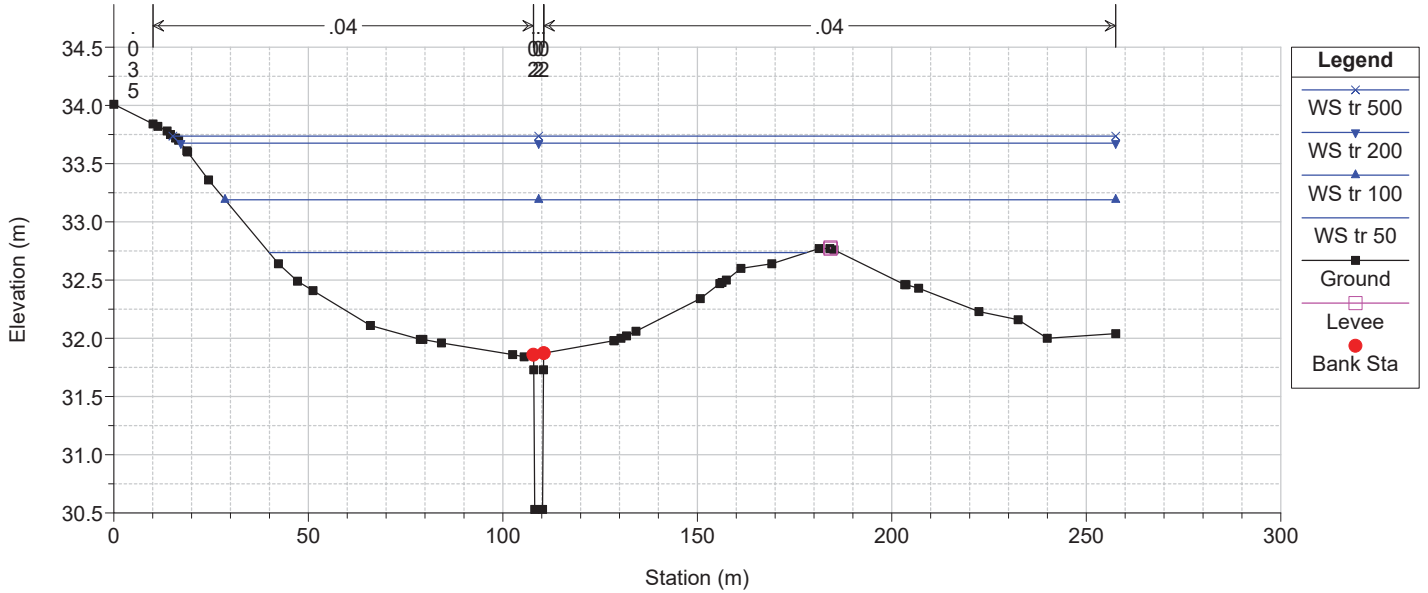
River = Canale urune Reach = 71849 RS = 9417.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

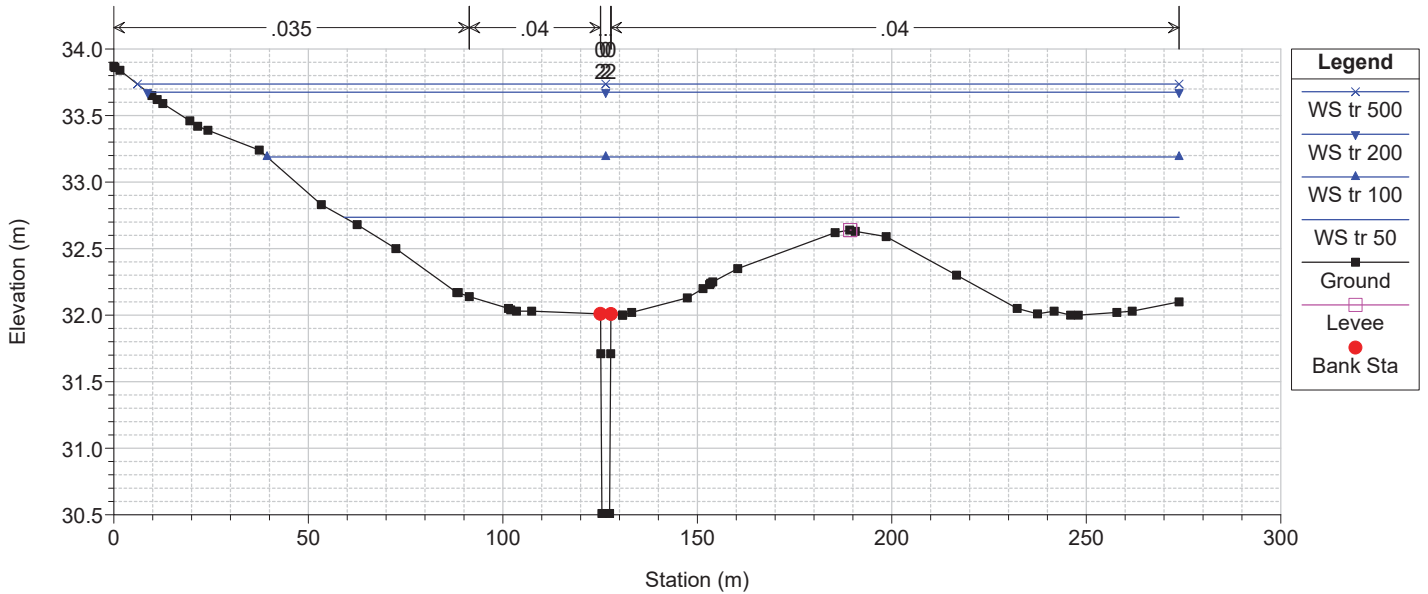
River = Canale urune Reach = 71849 RS = 9387.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

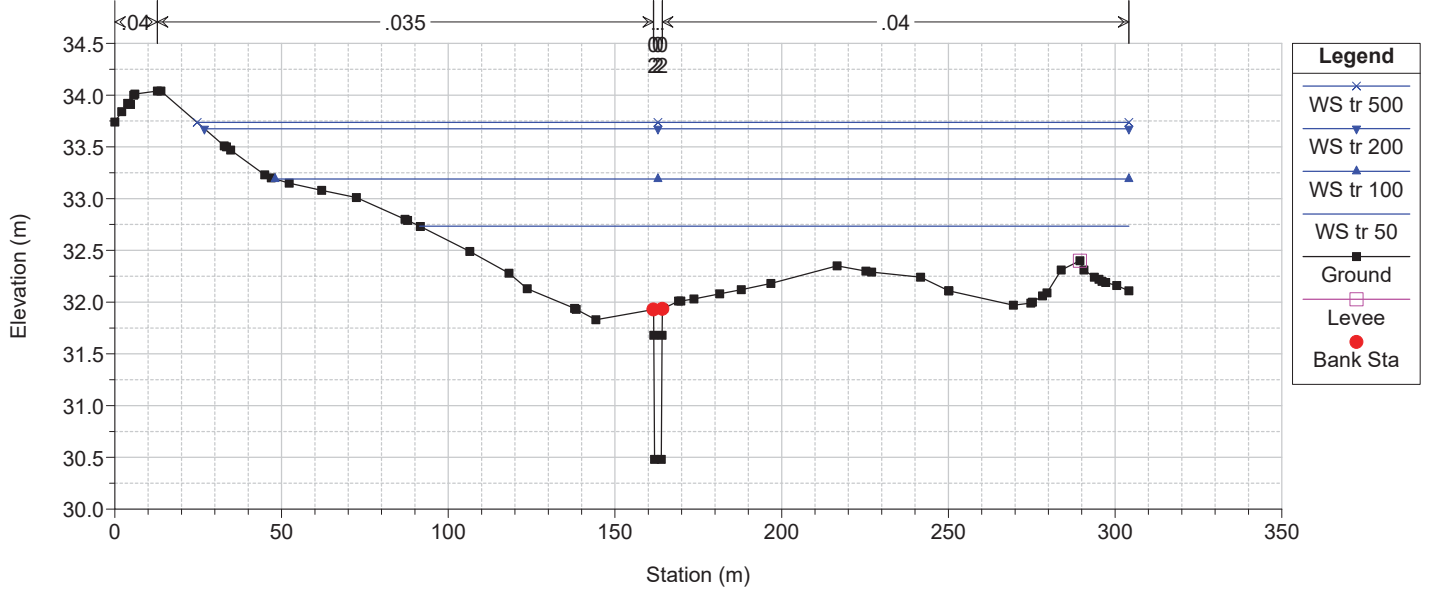
River = Canale urune Reach = 71849 RS = 9357.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

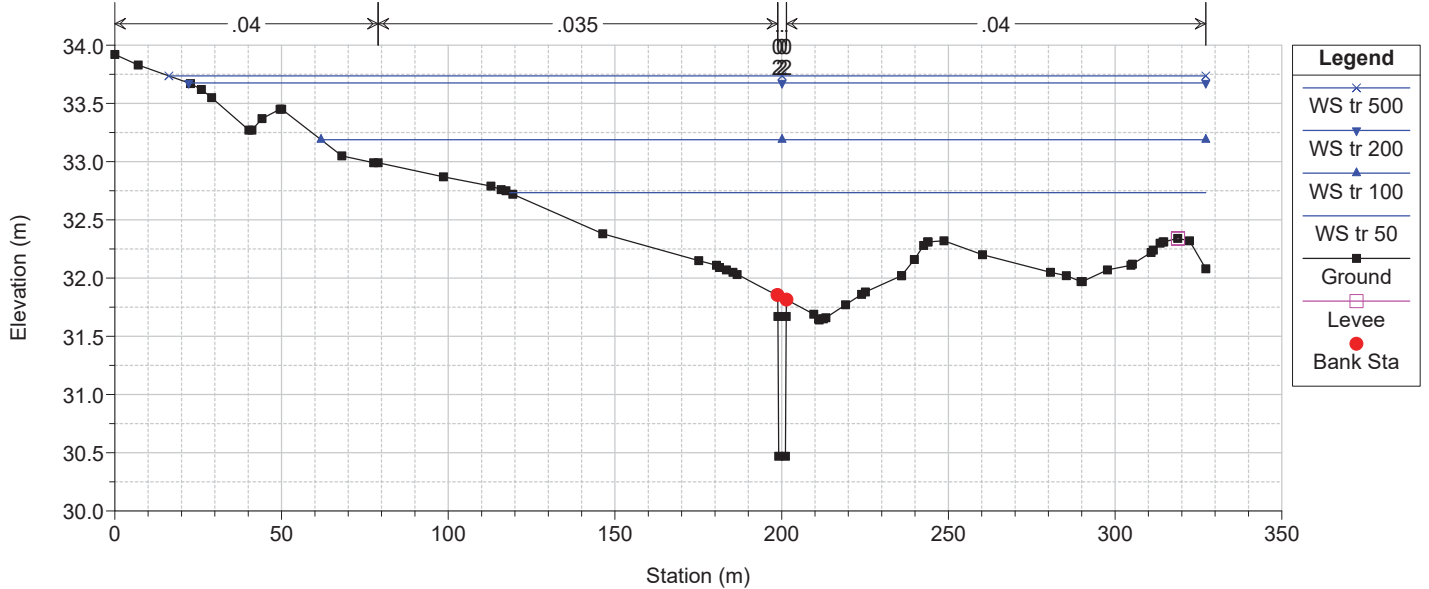
River = Canale urune Reach = 71849 RS = 9327.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

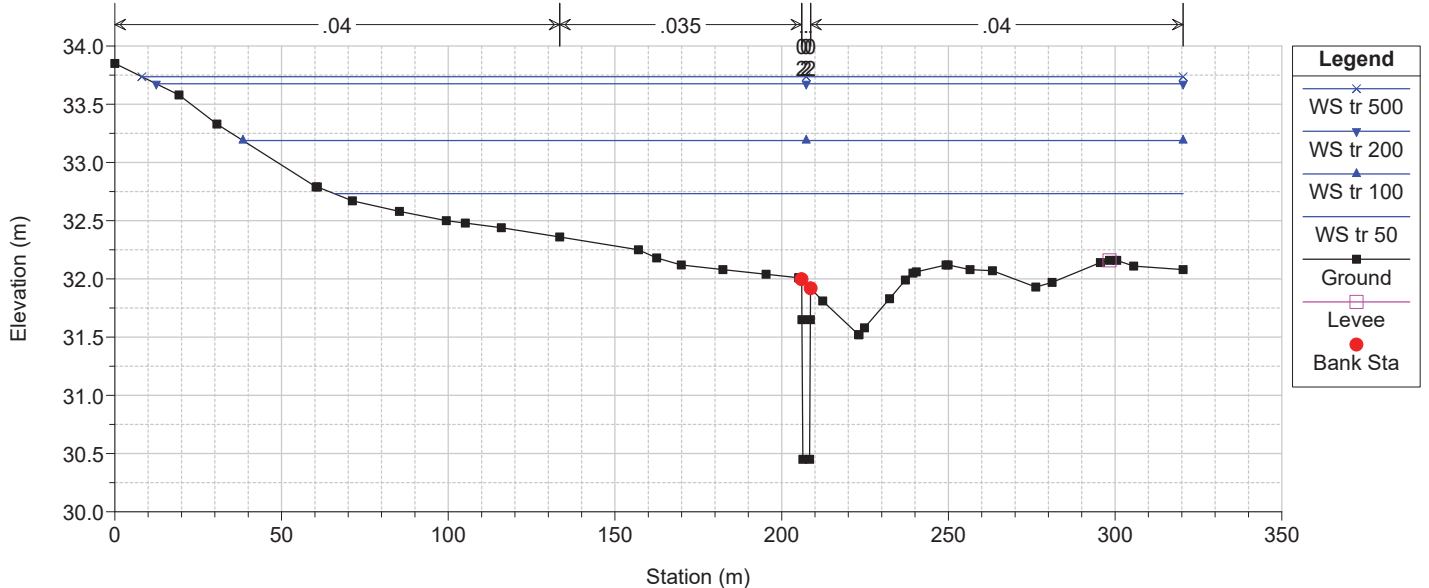
River = Canale urune Reach = 71849 RS = 9297.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

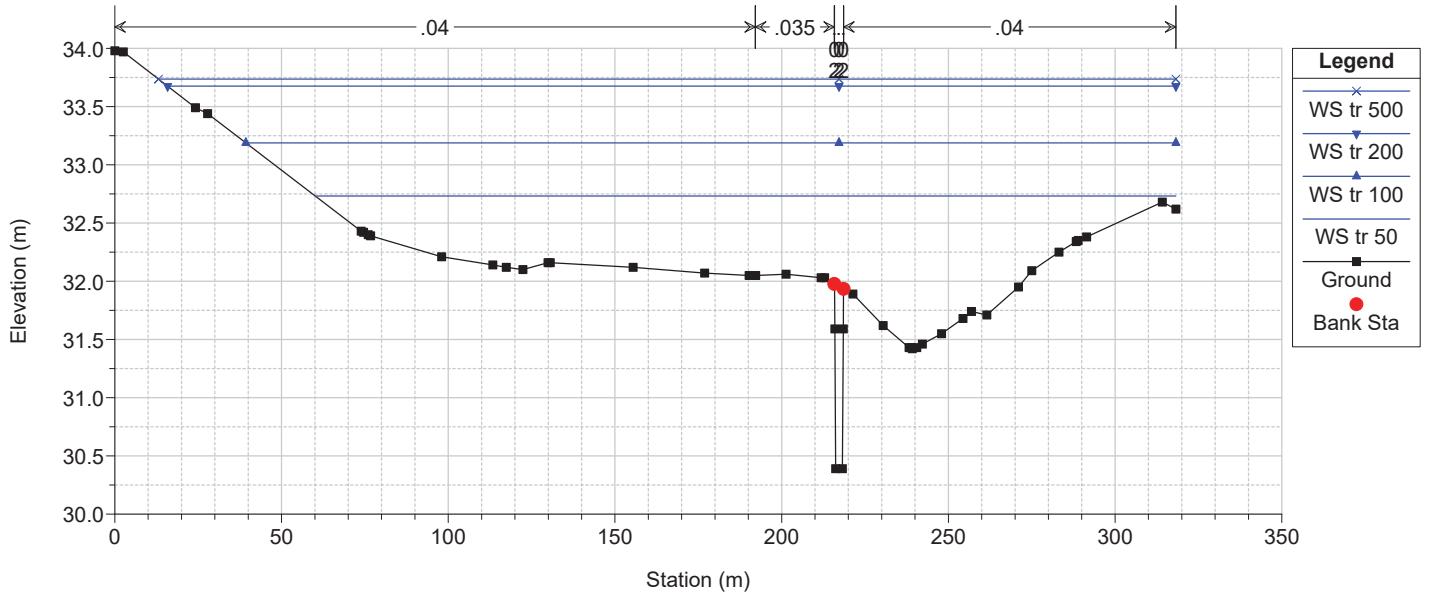
River = Canale urune Reach = 71849 RS = 9267.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

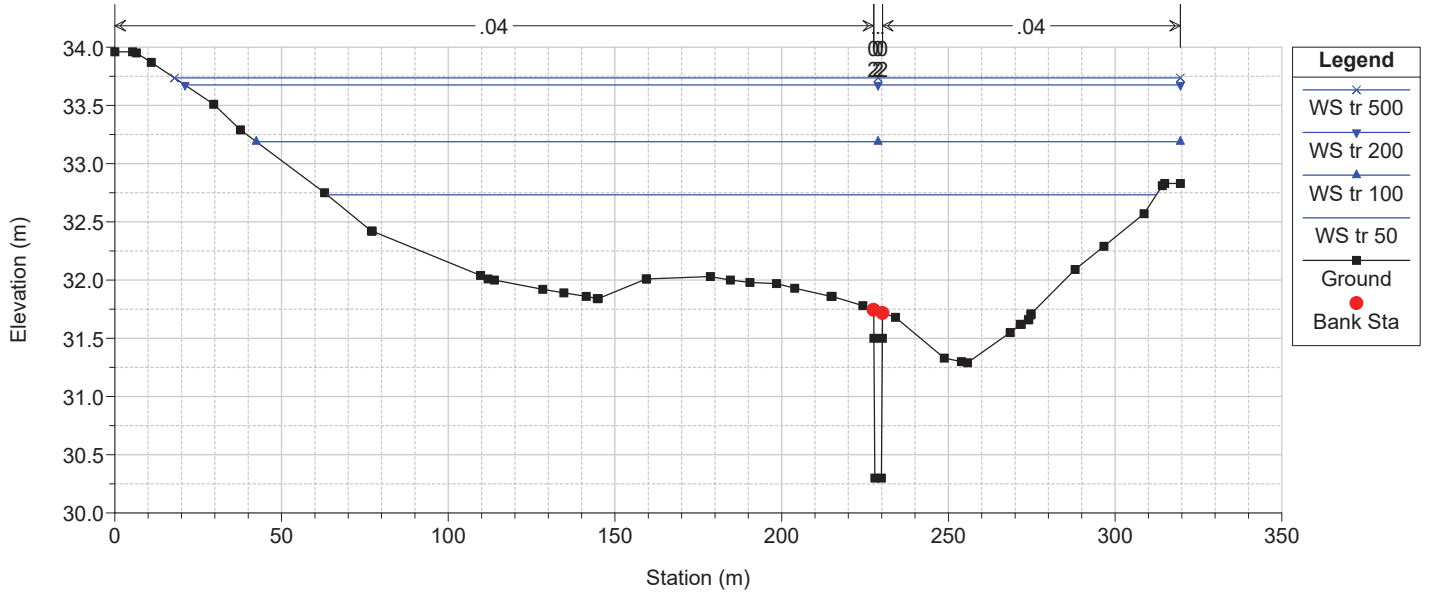
River = Canale urune Reach = 71849 RS = 9237.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

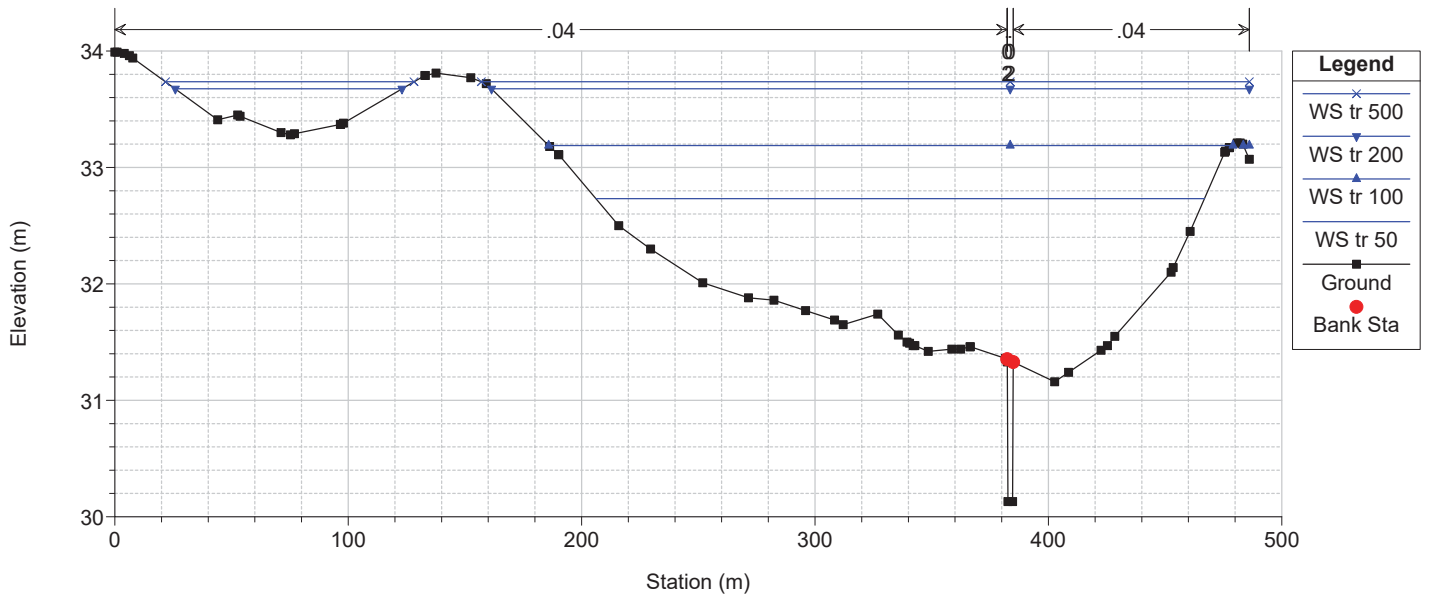
River = Canale urune Reach = 71849 RS = 9207.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

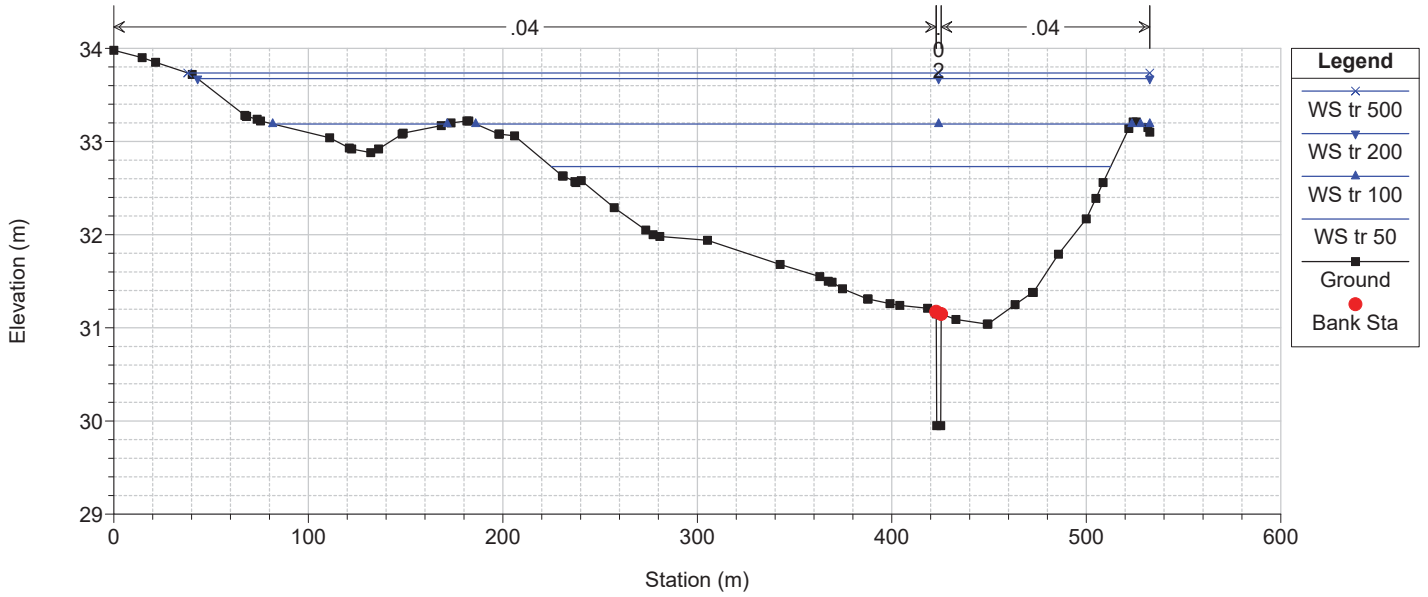
River = Canale urune Reach = 71849 RS = 9177.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

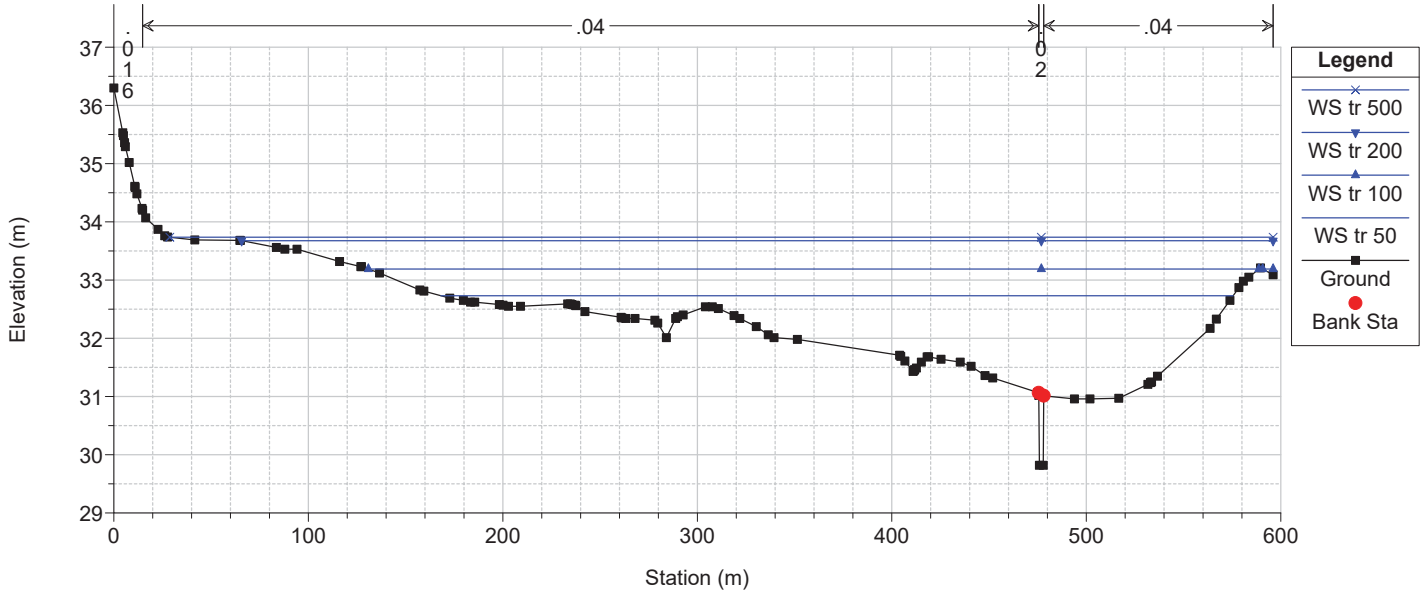
River = Canale urune Reach = 71849 RS = 9147.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

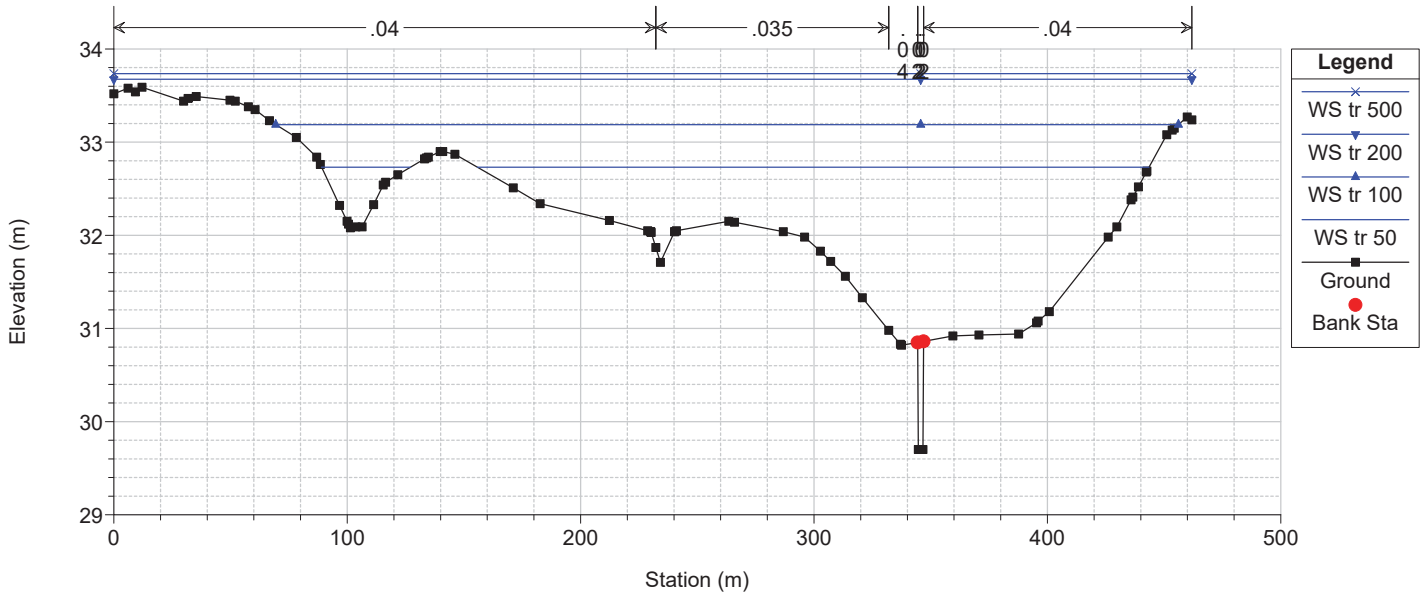
River = Canale urune Reach = 71849 RS = 9117.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

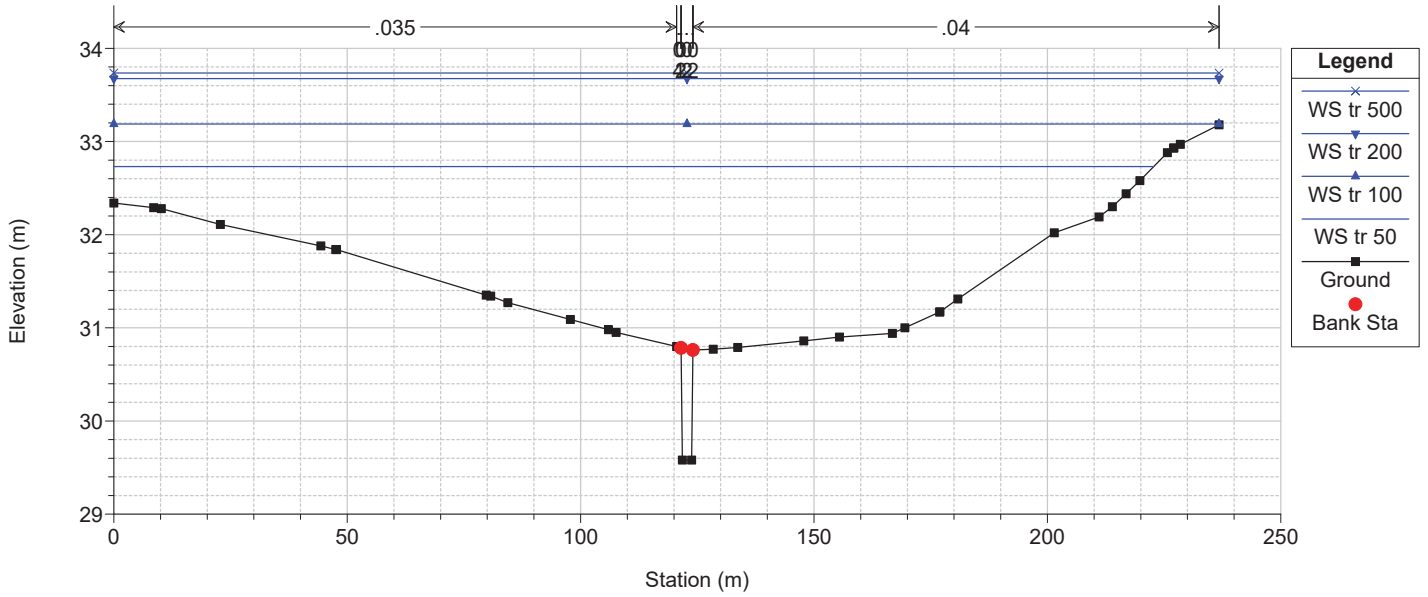
River = Canale urune Reach = 71849 RS = 9087.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

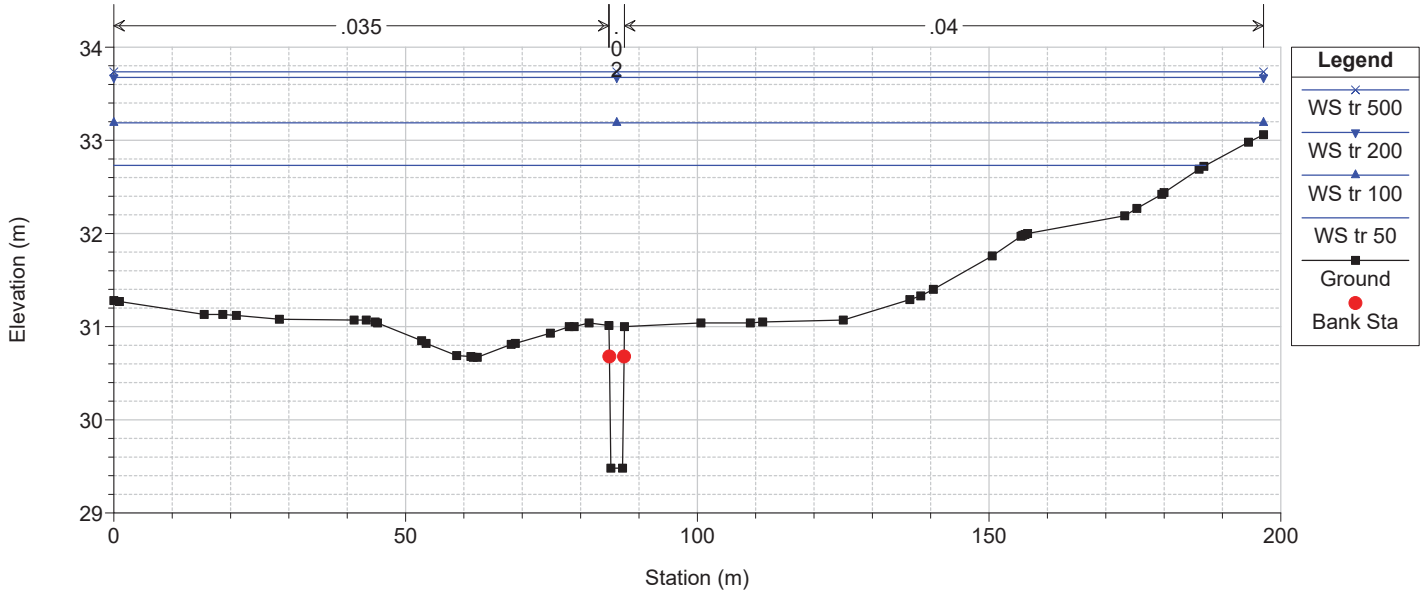
River = Canale urune Reach = 71849 RS = 9057.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

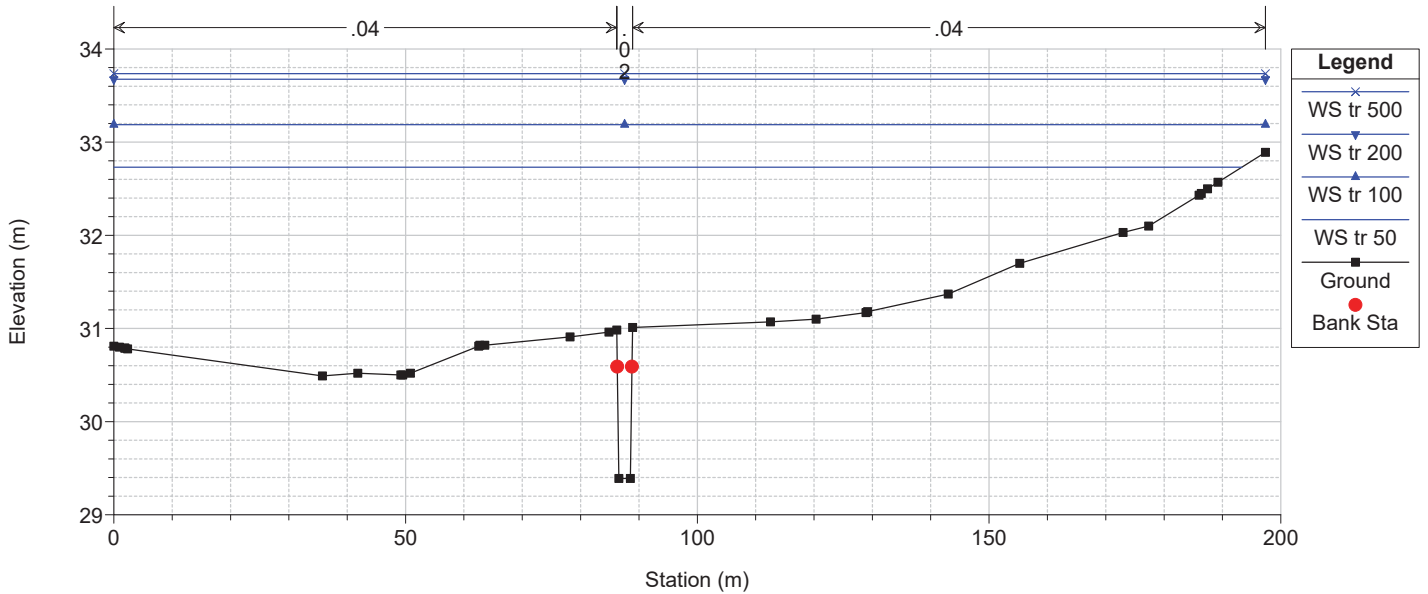
River = Canale urune Reach = 71849 RS = 9027.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

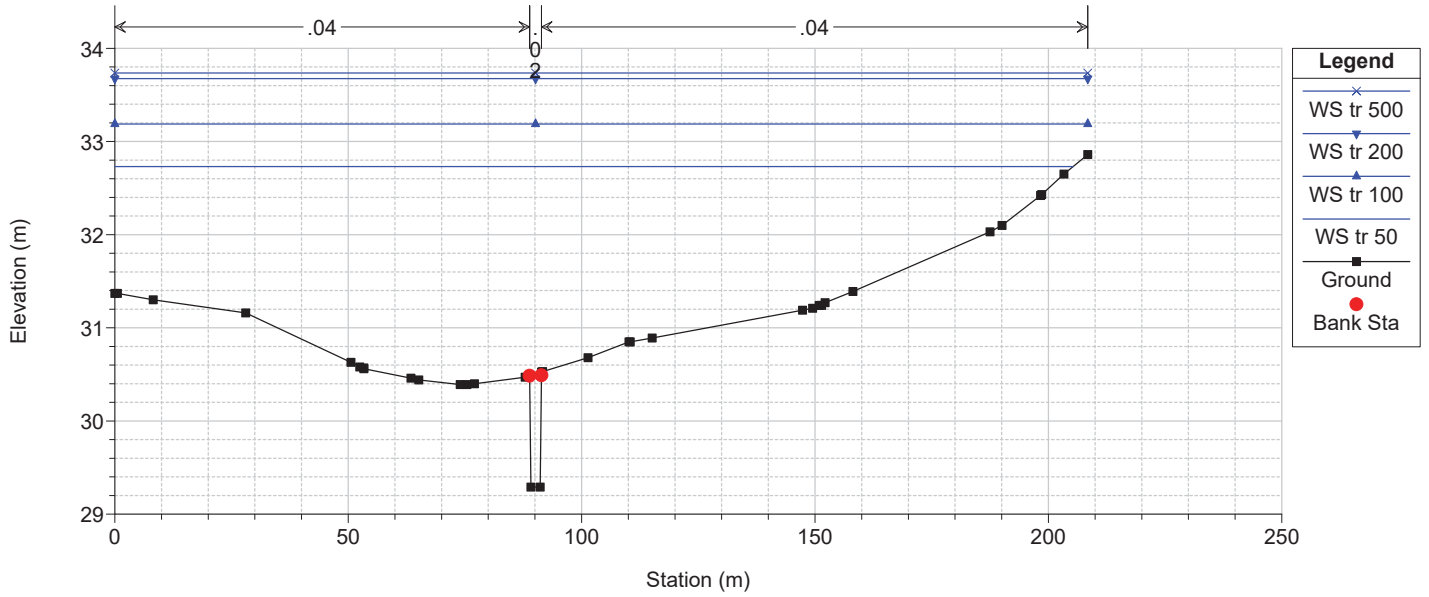
River = Canale urune Reach = 71849 RS = 8997.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

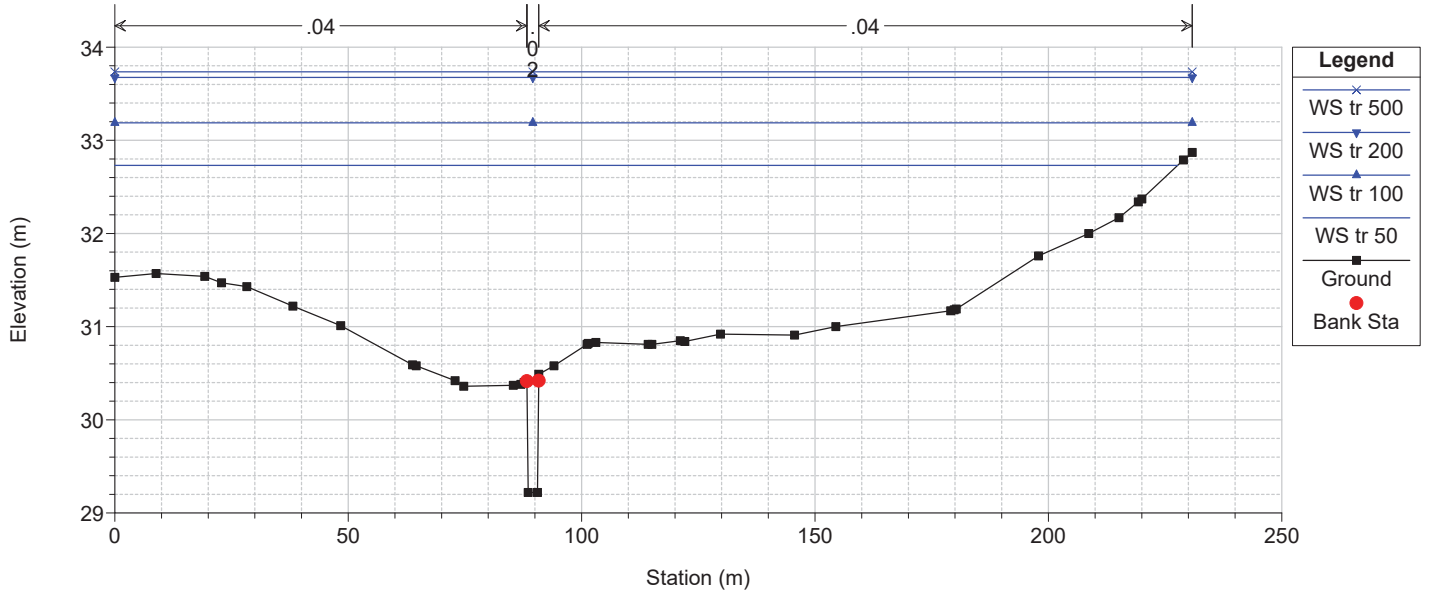
River = Canale urune Reach = 71849 RS = 8967.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

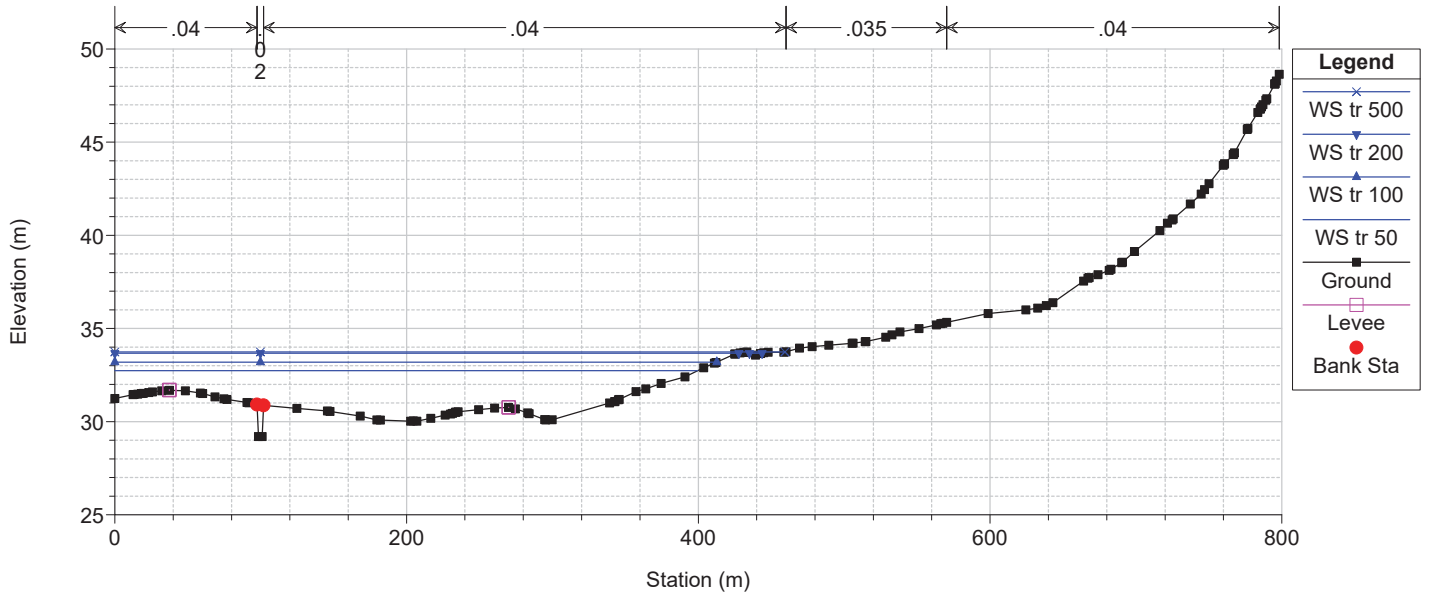
River = Canale urune Reach = 71849 RS = 8937.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

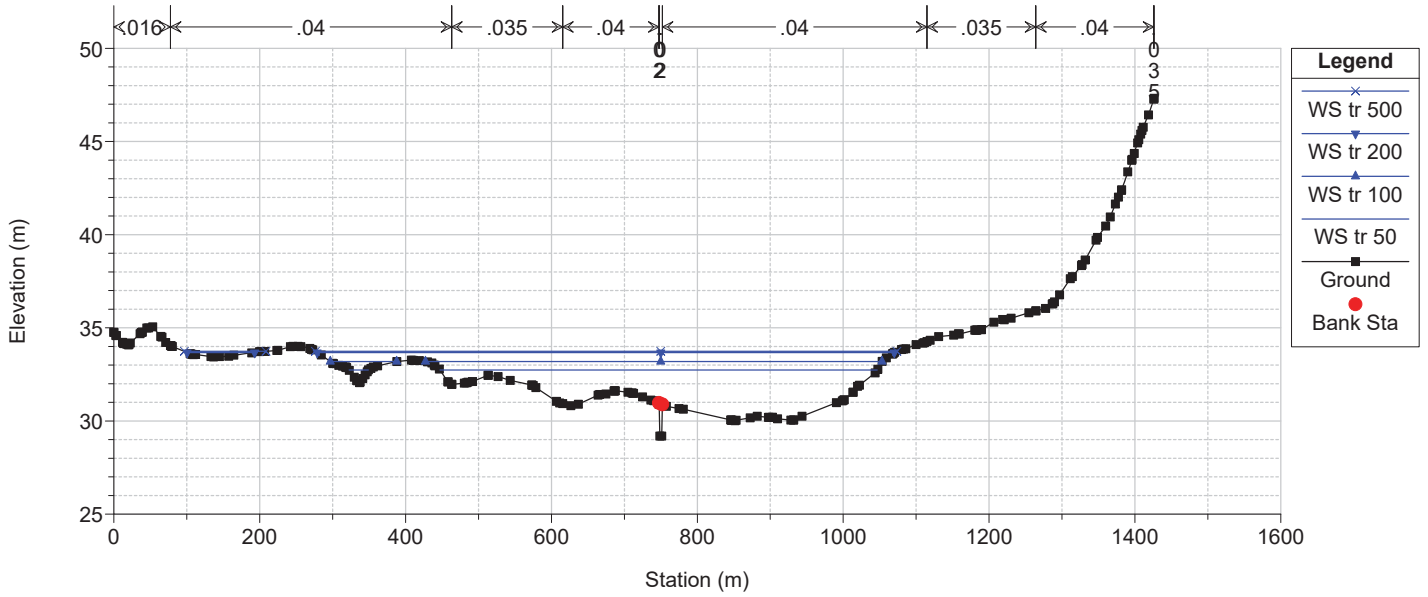
River = Canale urune Reach = Asta 1 RS = 8847.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

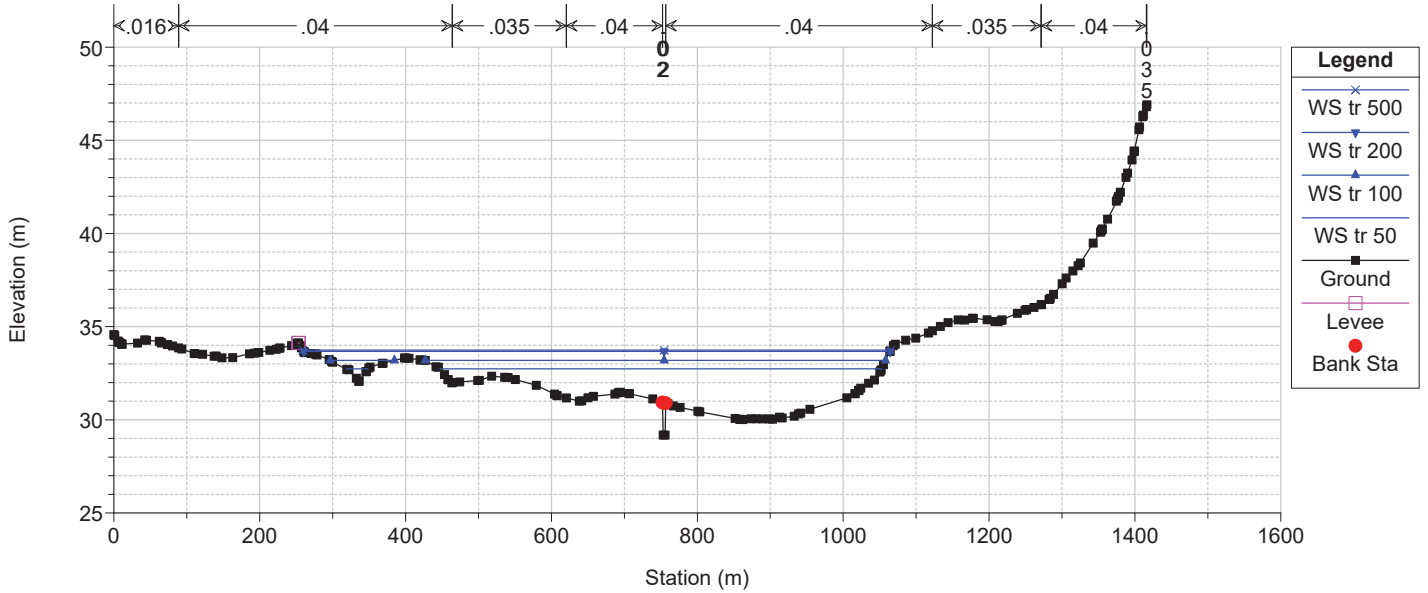
River = Canale urune Reach = Asta 1 RS = 8817.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

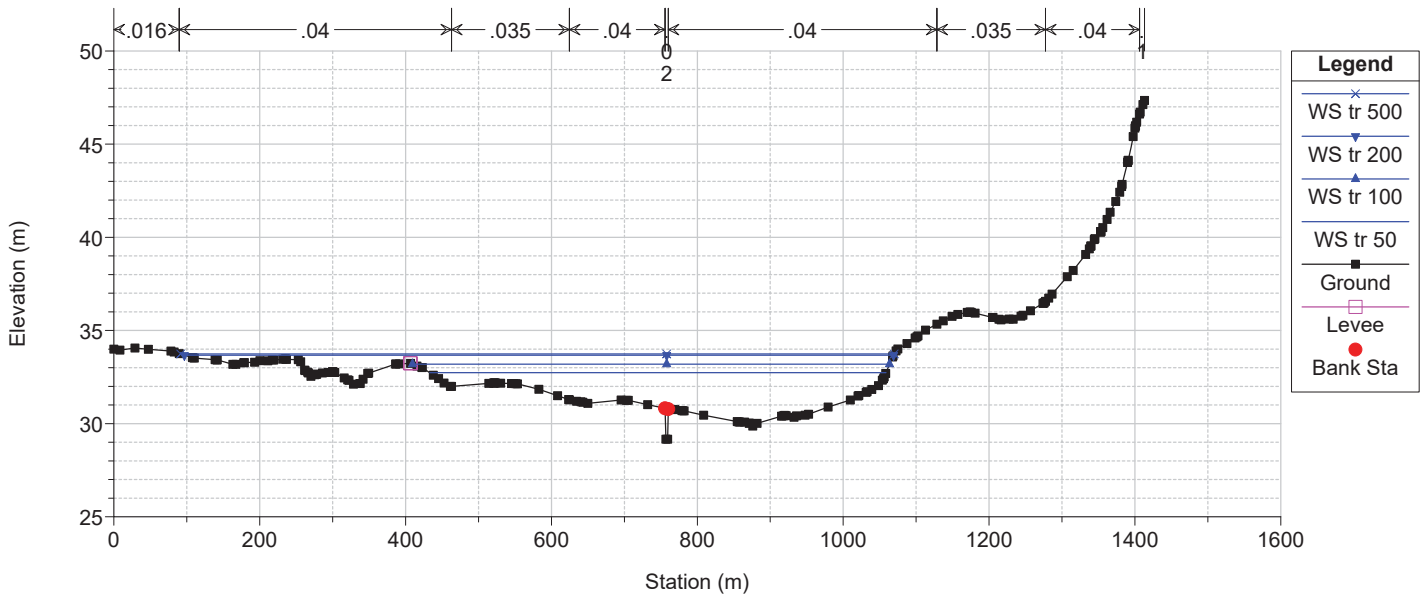
River = Canale urune Reach = Asta 1 RS = 8800.361 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

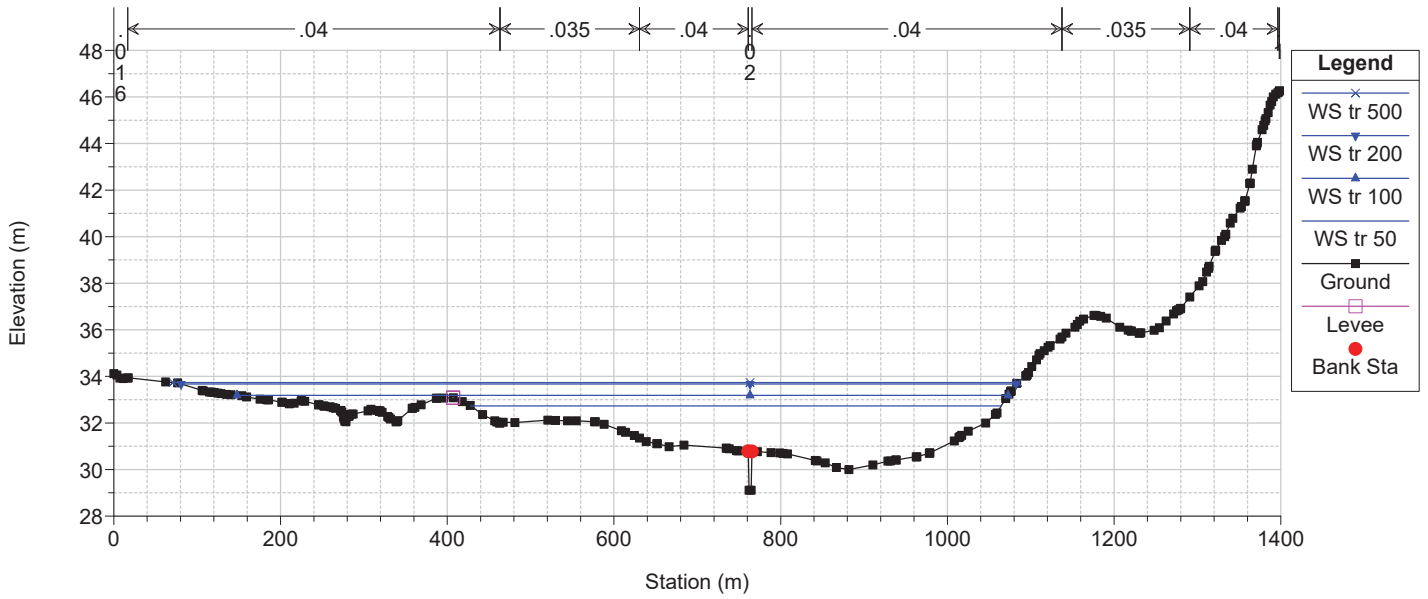
River = Canale urune Reach = Asta 1 RS = 8781.394 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

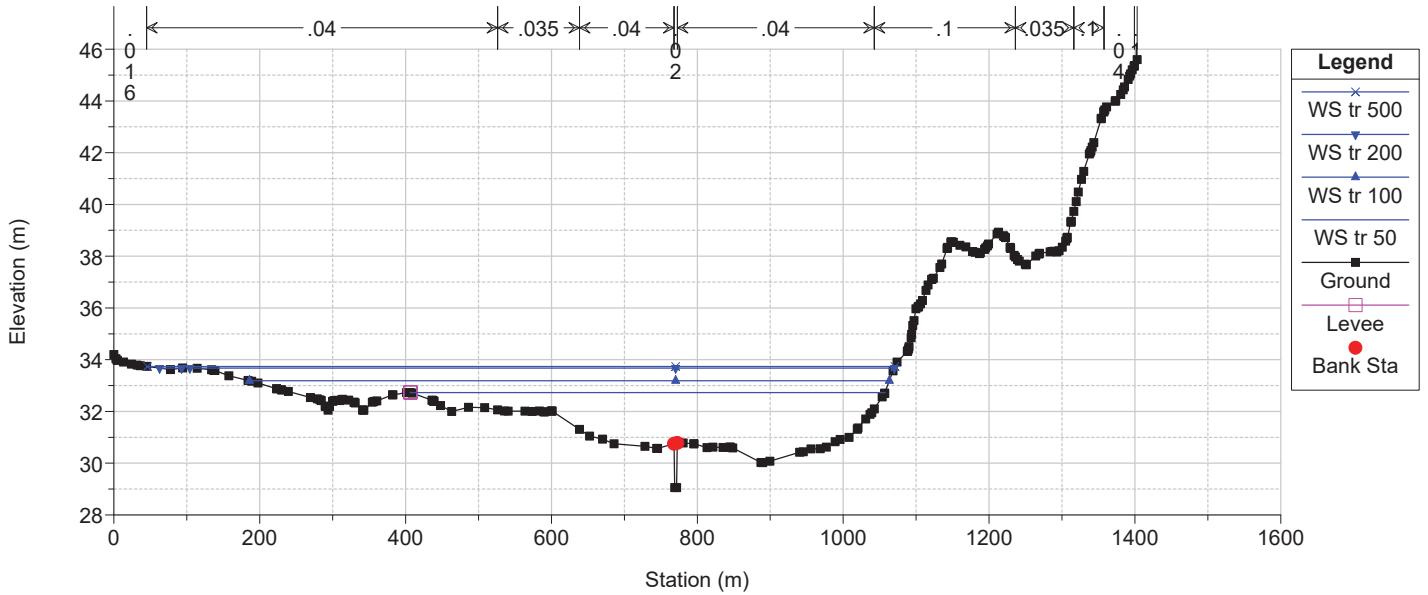
River = Canale urune Reach = Asta 1 RS = 8757.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

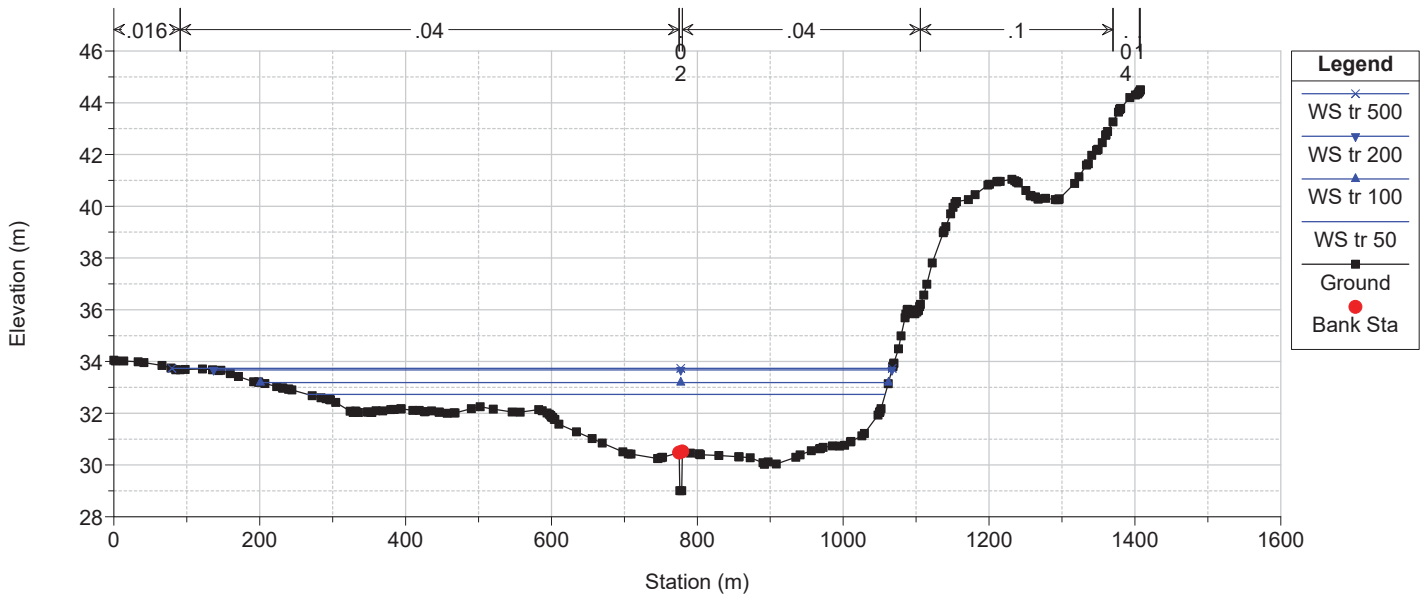
River = Canale urune Reach = Asta 1 RS = 8727.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

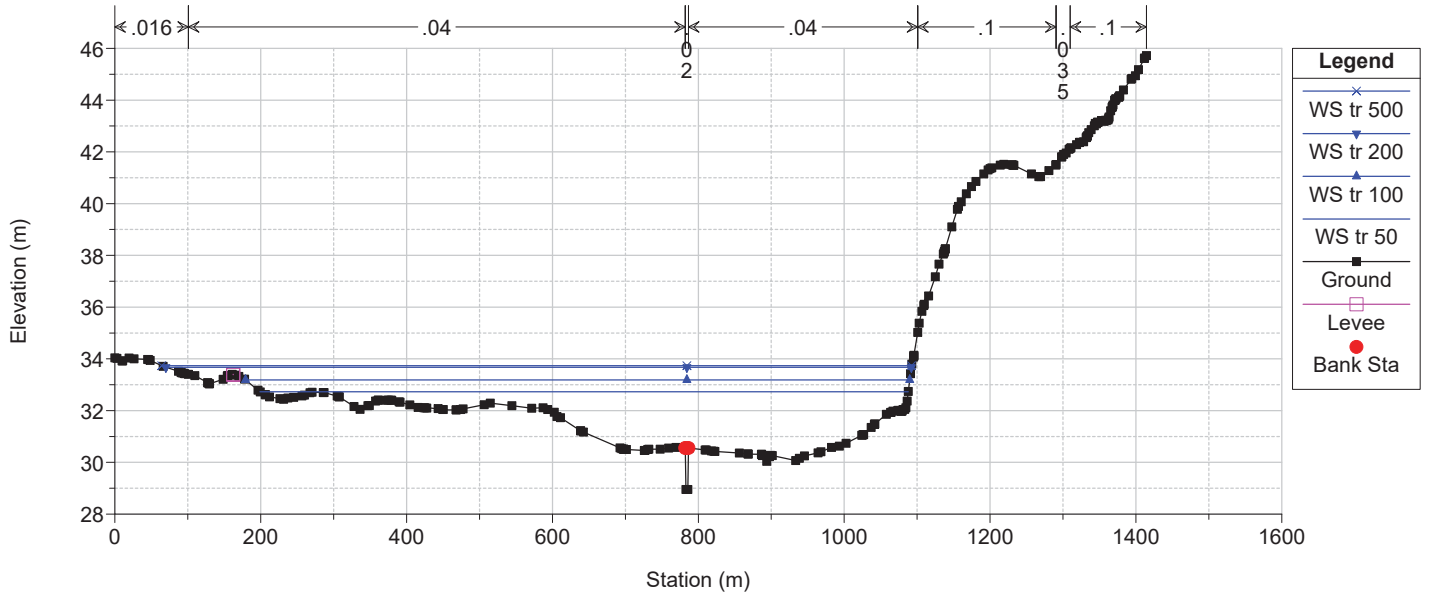
River = Canale urune Reach = Asta 1 RS = 8697.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

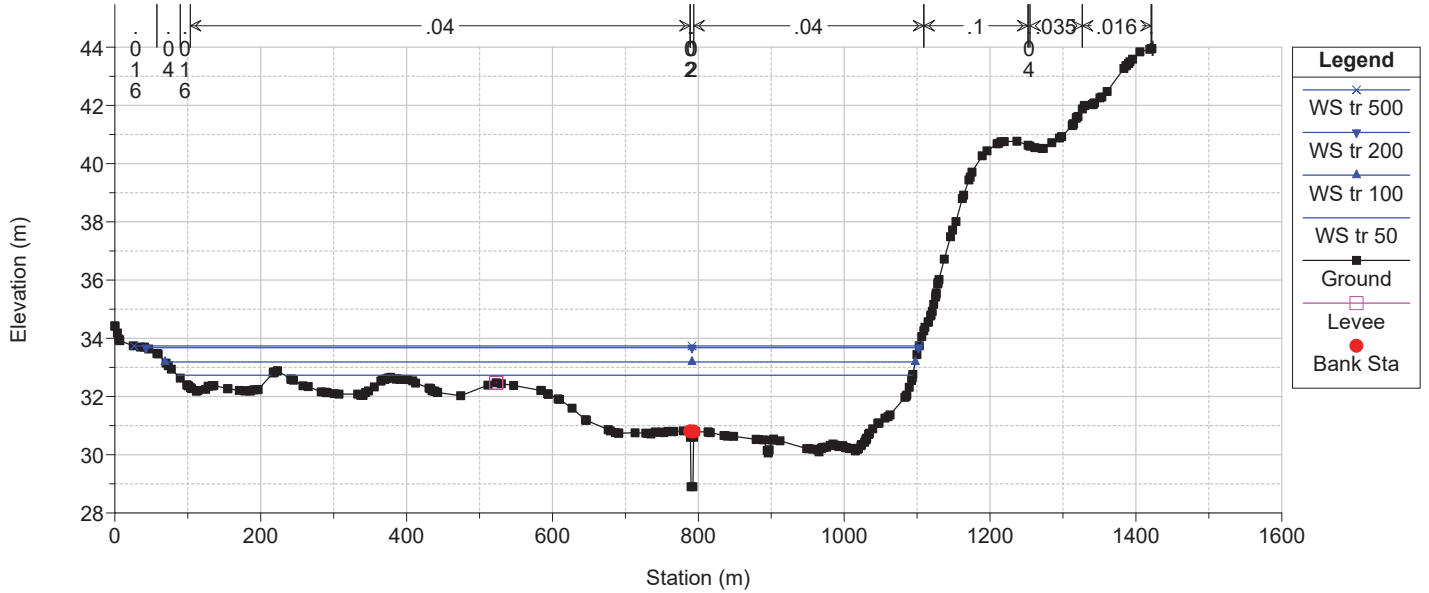
River = Canale urune Reach = Asta 1 RS = 8667.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

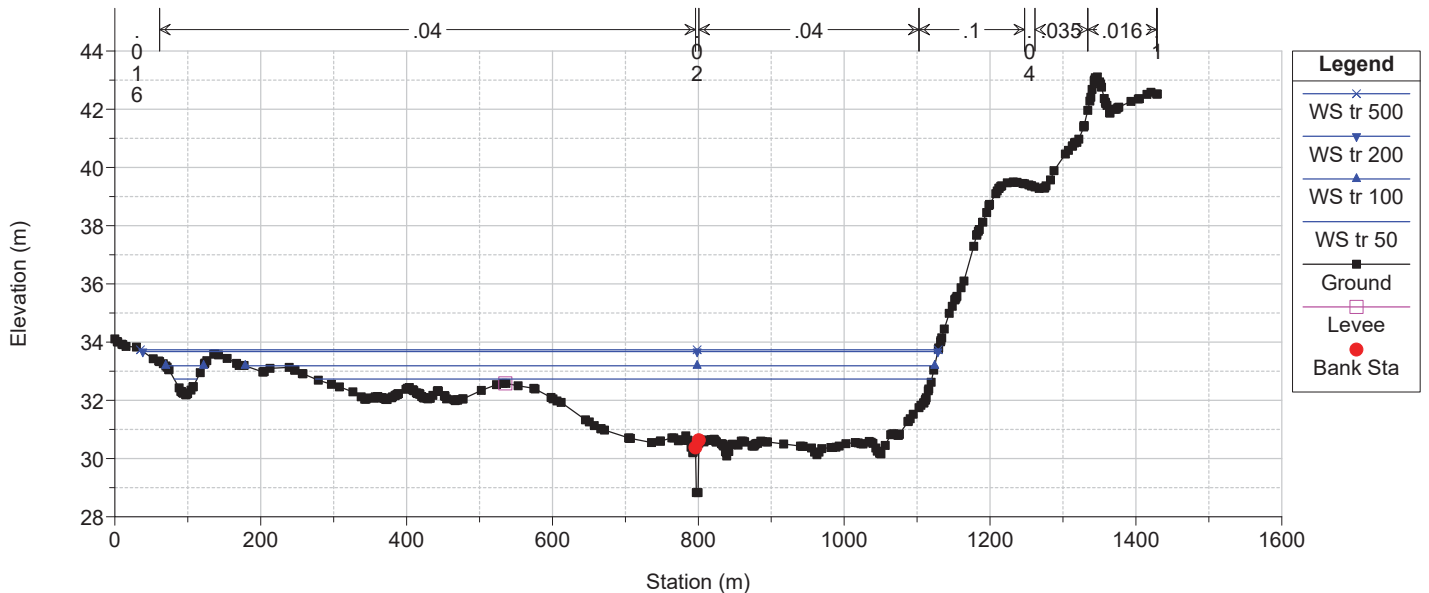
River = Canale urune Reach = Asta 1 RS = 8637.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

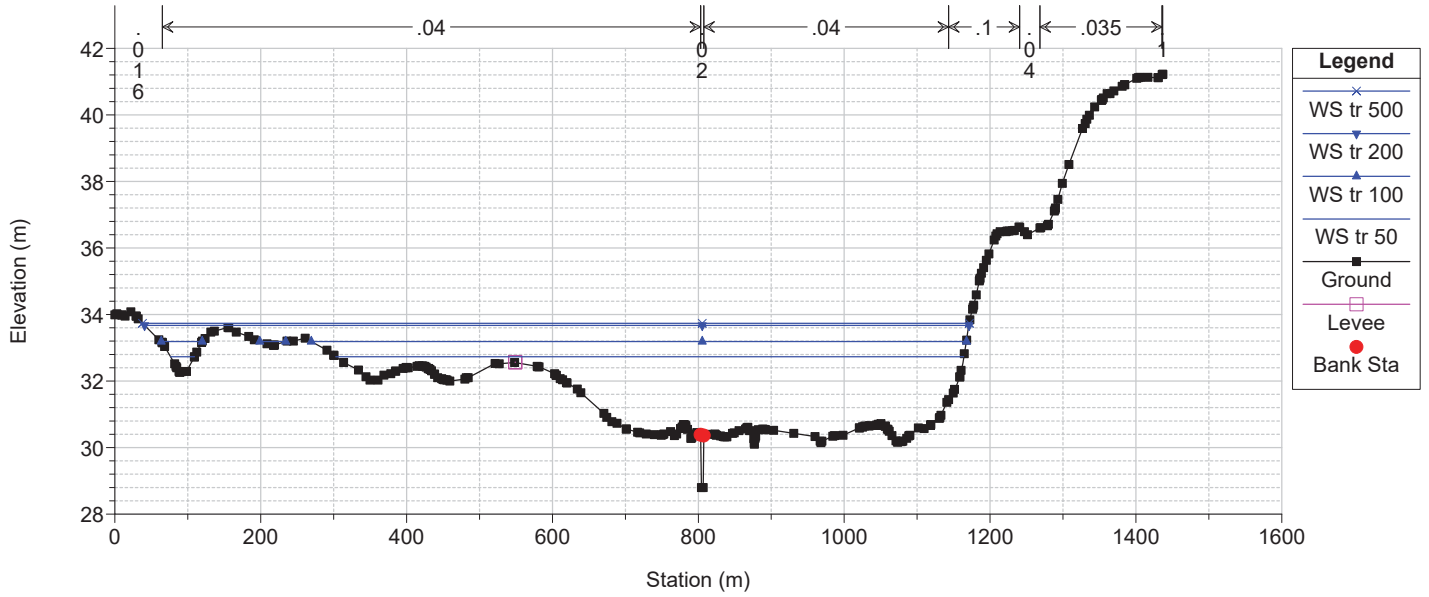
River = Canale urune Reach = Asta 1 RS = 8607.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

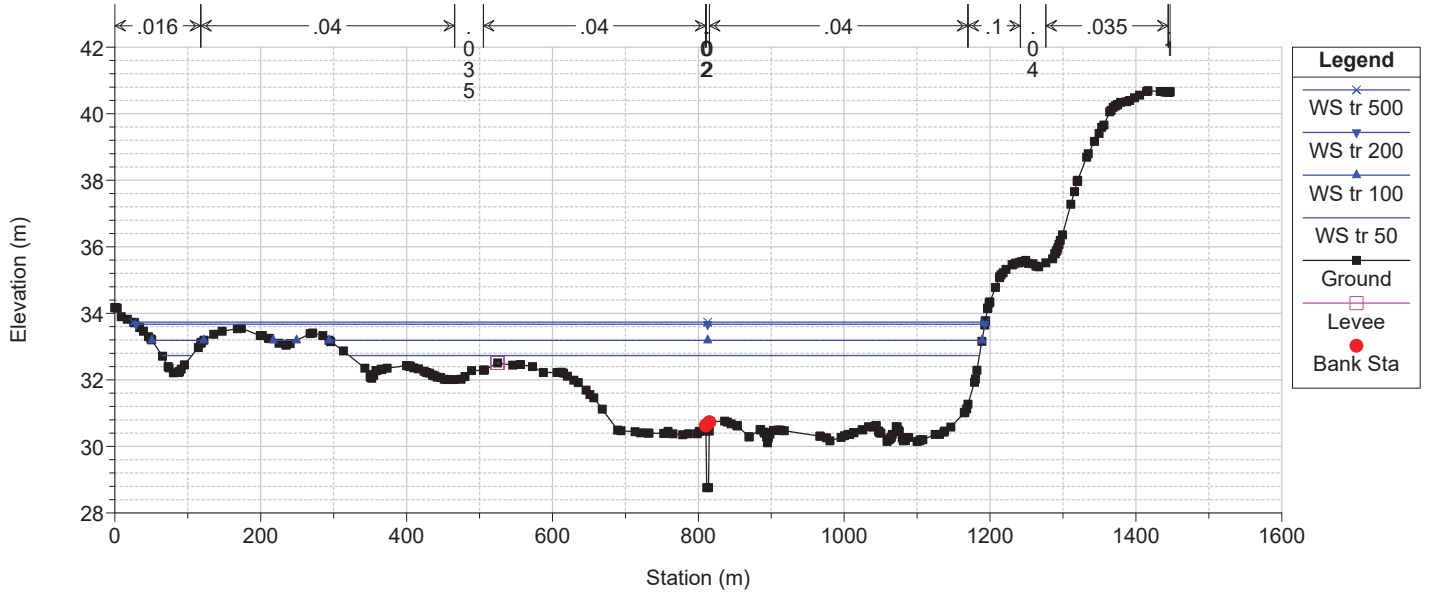
River = Canale urune Reach = Asta 1 RS = 8577.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

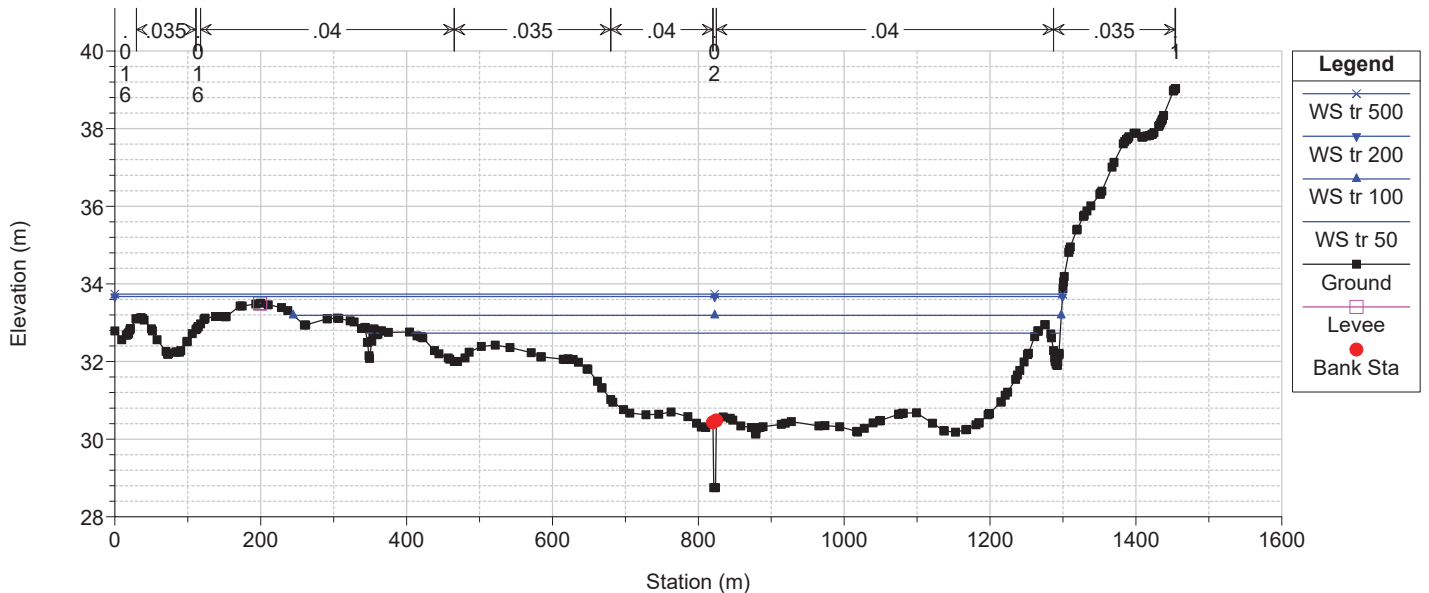
River = Canale urune Reach = Asta 1 RS = 8558.979 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

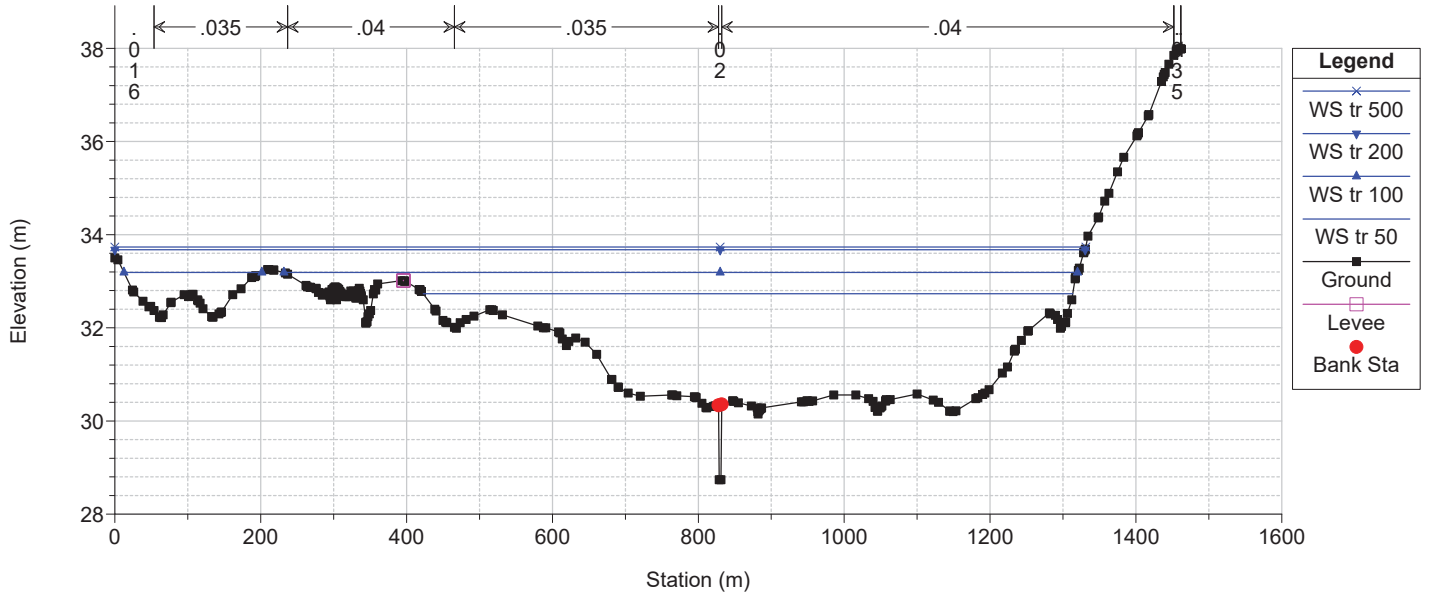
River = Canale urune Reach = Asta 1 RS = 8517.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

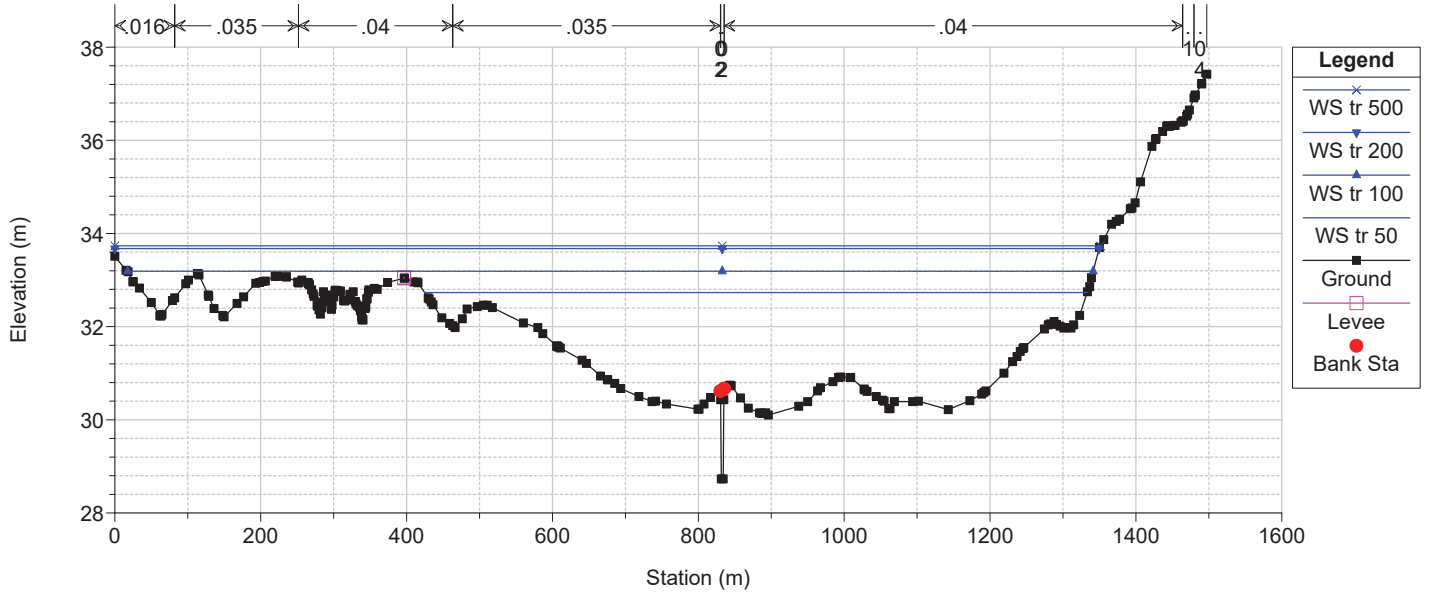
River = Canale urune Reach = Asta 1 RS = 8487.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

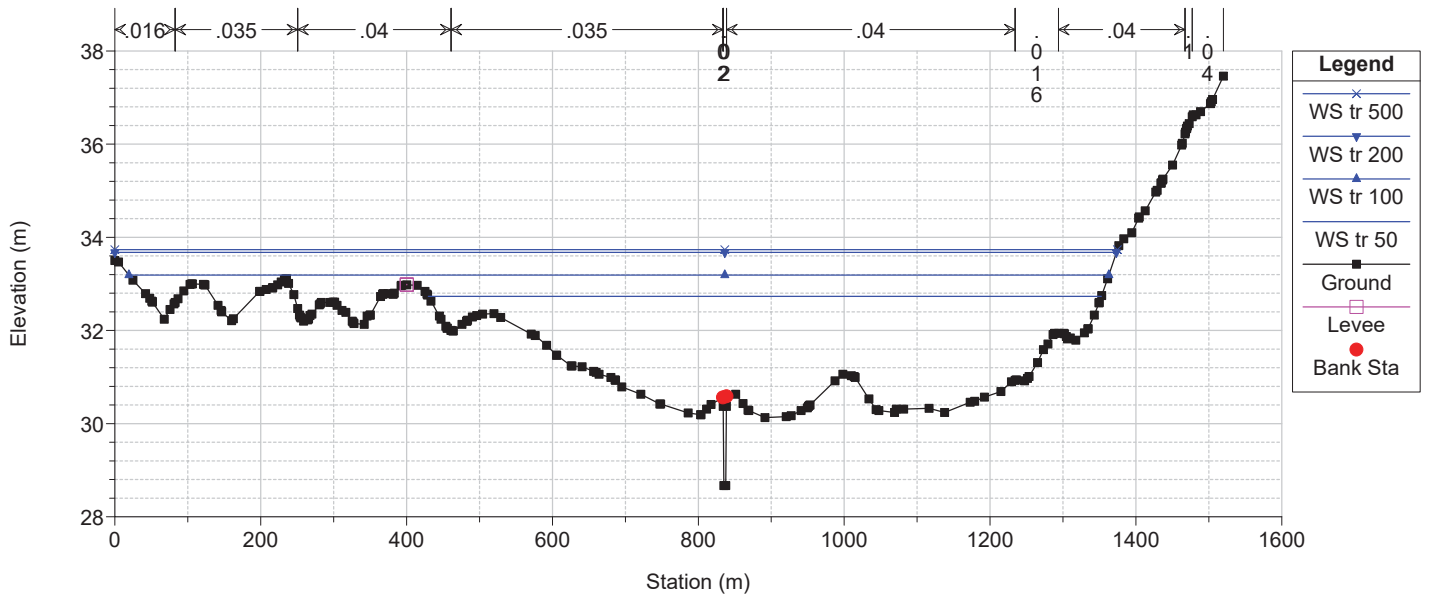
River = Canale urune Reach = Asta 1 RS = 8457.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

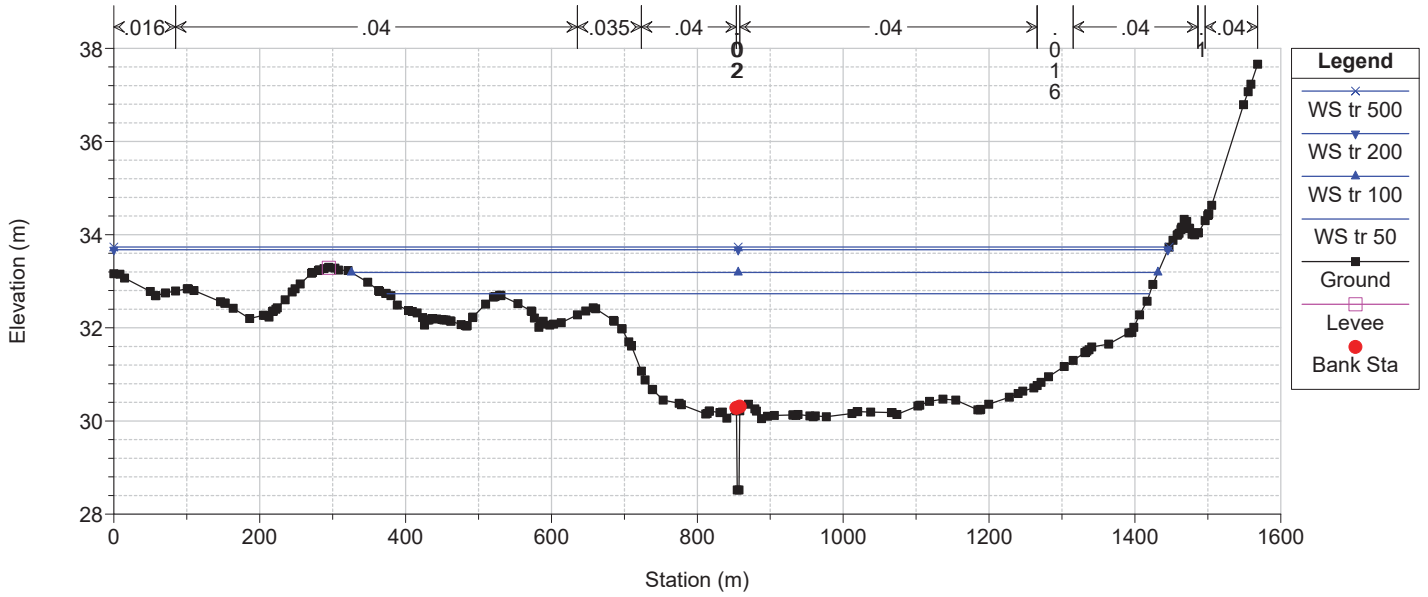
River = Canale urune Reach = Asta 1 RS = 8427.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

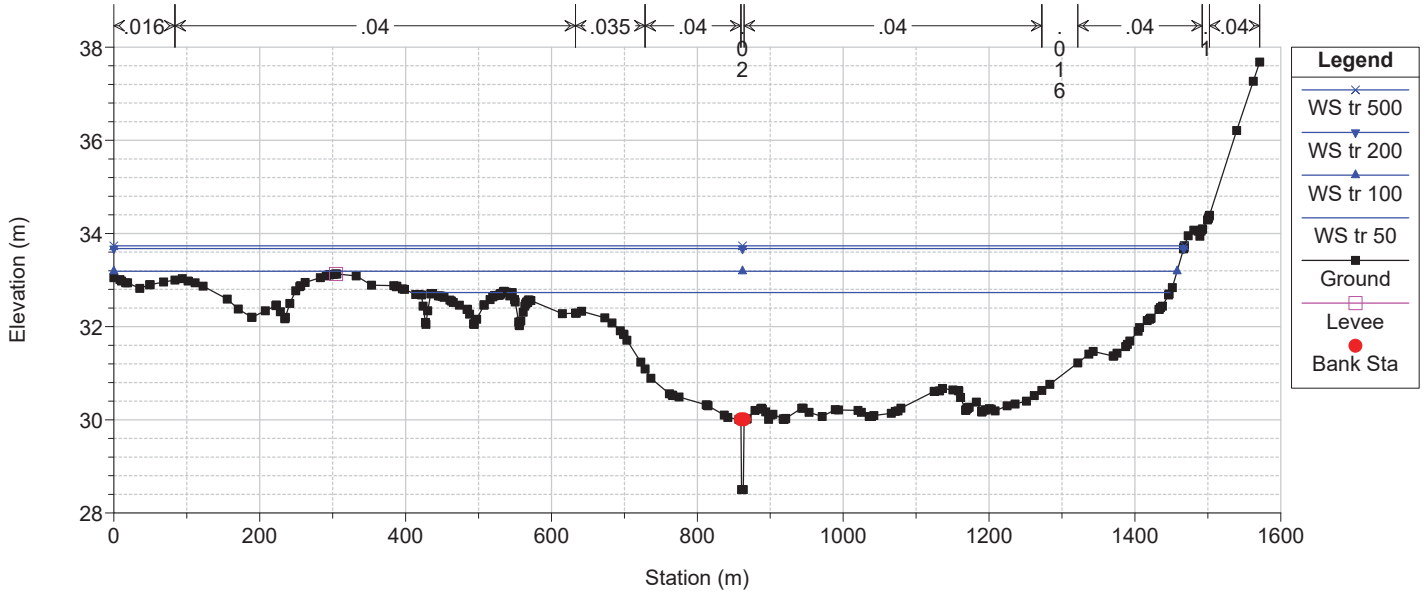
River = Canale urune Reach = Asta 1 RS = 8307.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

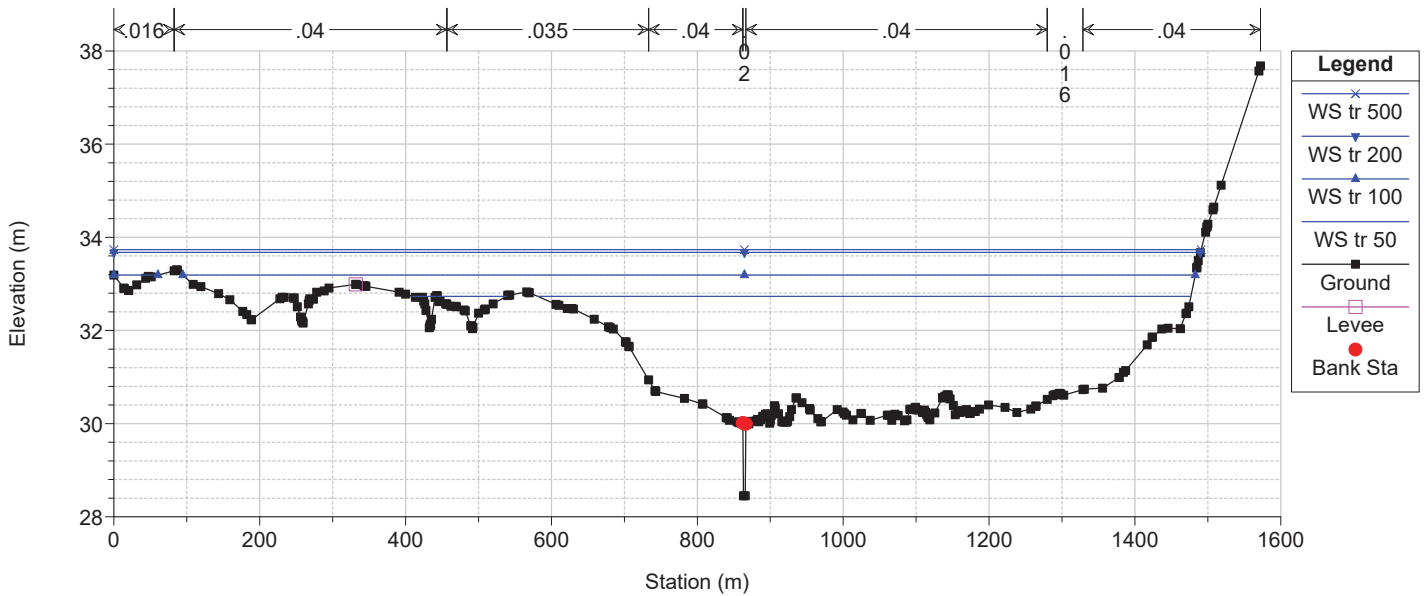
River = Canale urune Reach = Asta 1 RS = 8277.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

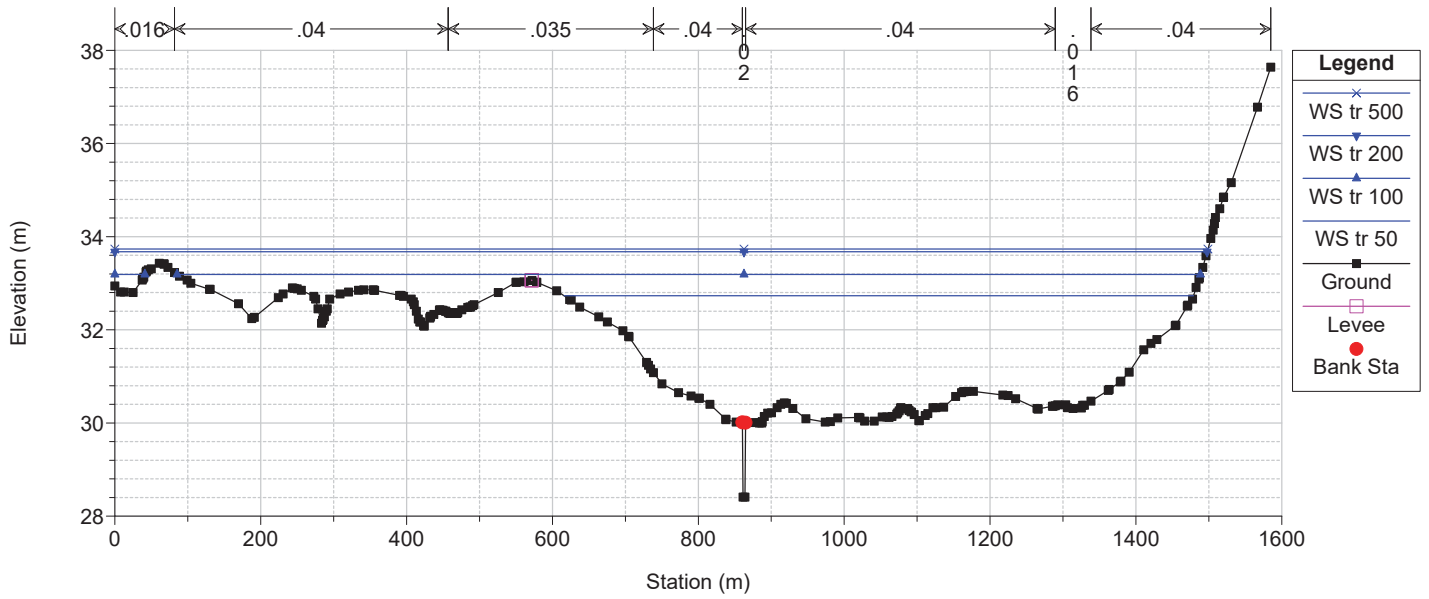
River = Canale urune Reach = Asta 1 RS = 8247.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

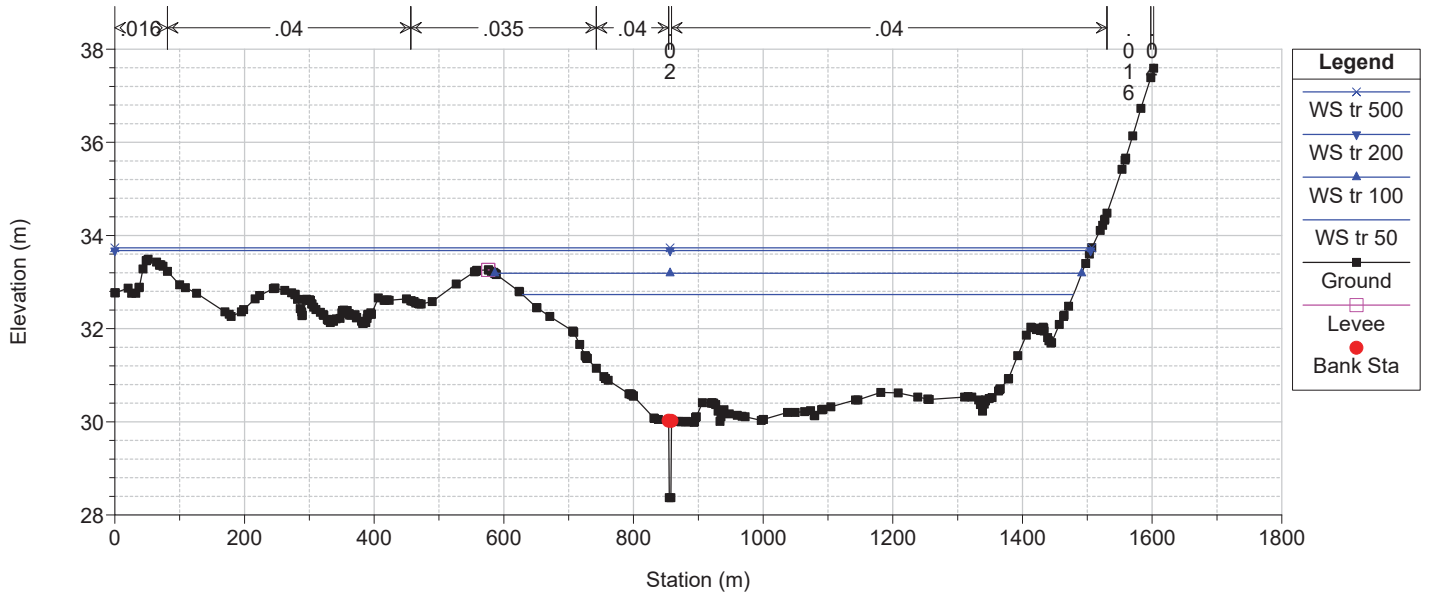
River = Canale urune Reach = Asta 1 RS = 8217.654 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

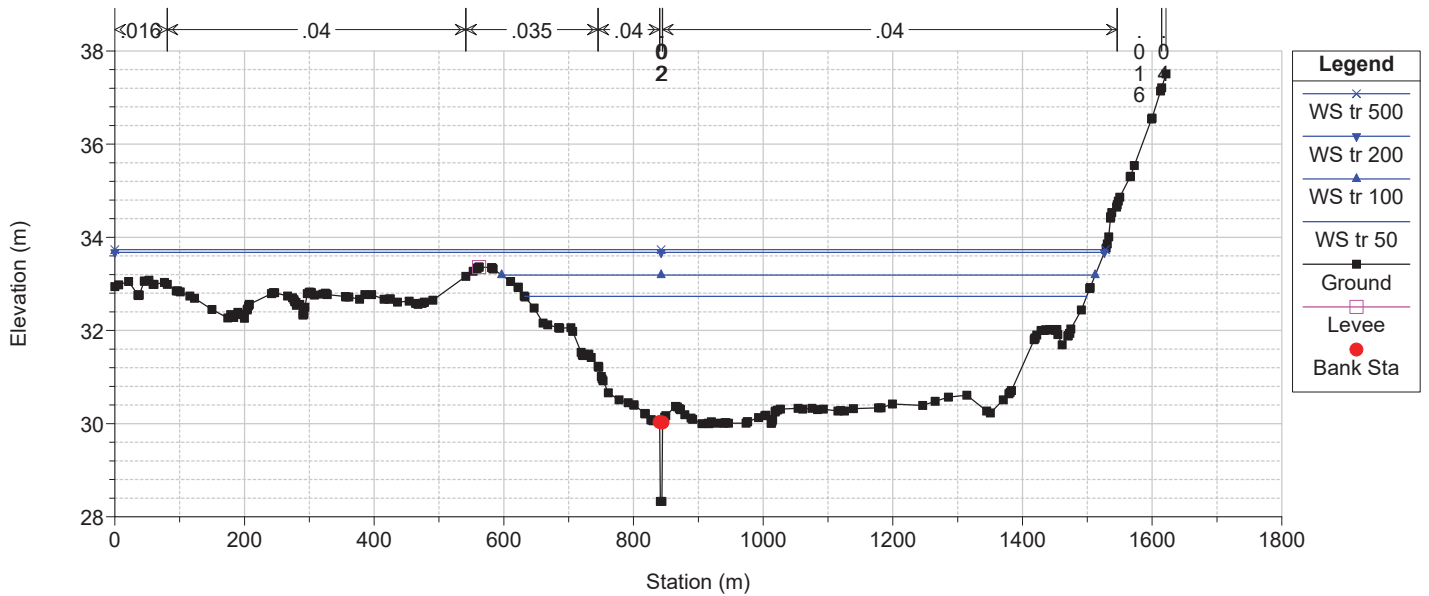
River = Canale urune Reach = Asta 1 RS = 8187.654 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

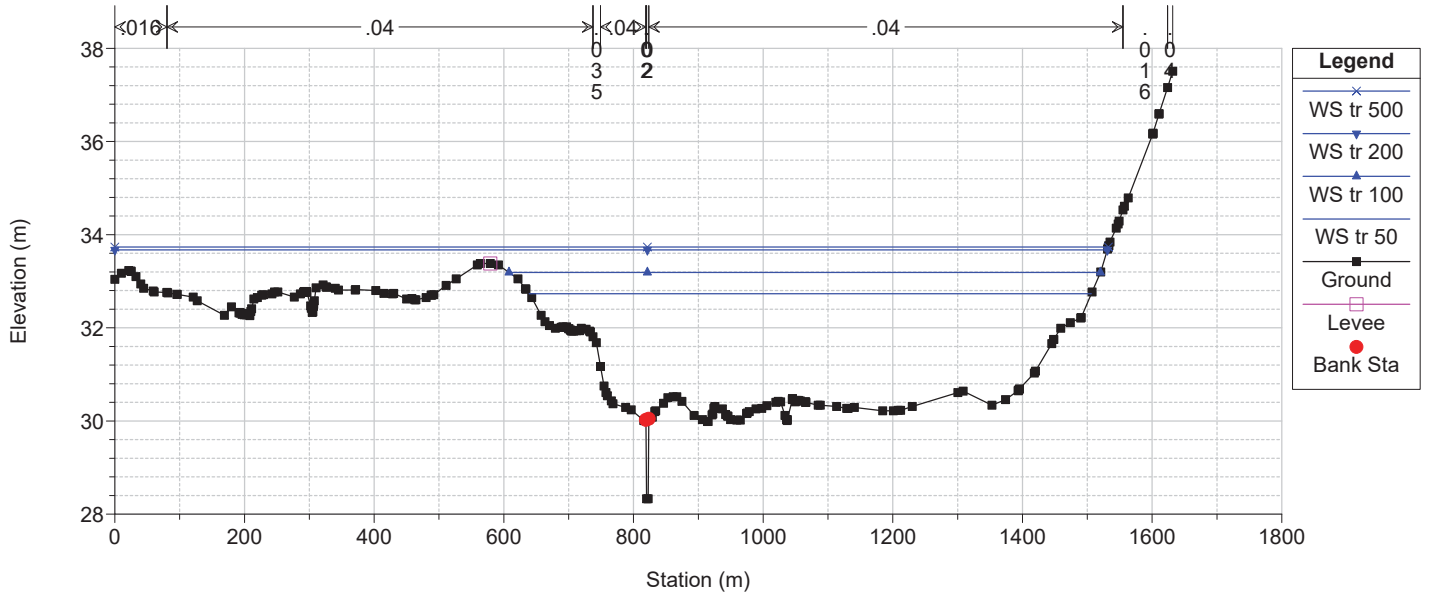
River = Canale urune Reach = Asta 1 RS = 8157.654 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

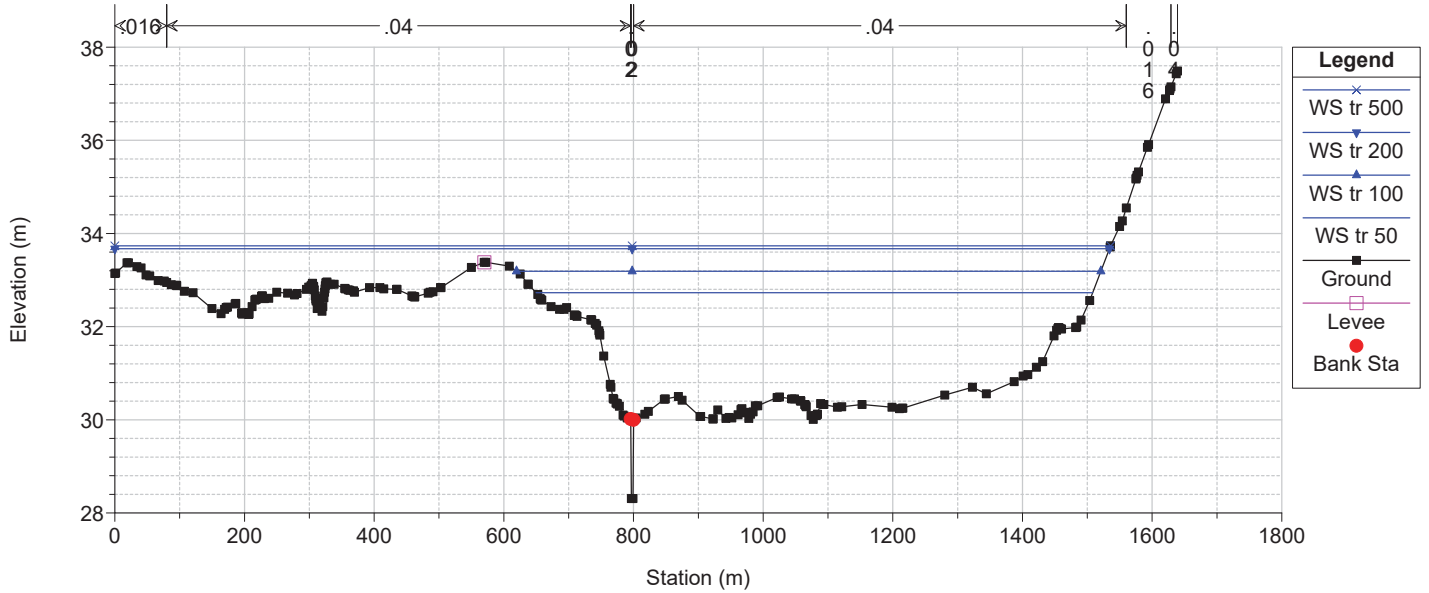
River = Canale urune Reach = Asta 1 RS = 8127.653 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

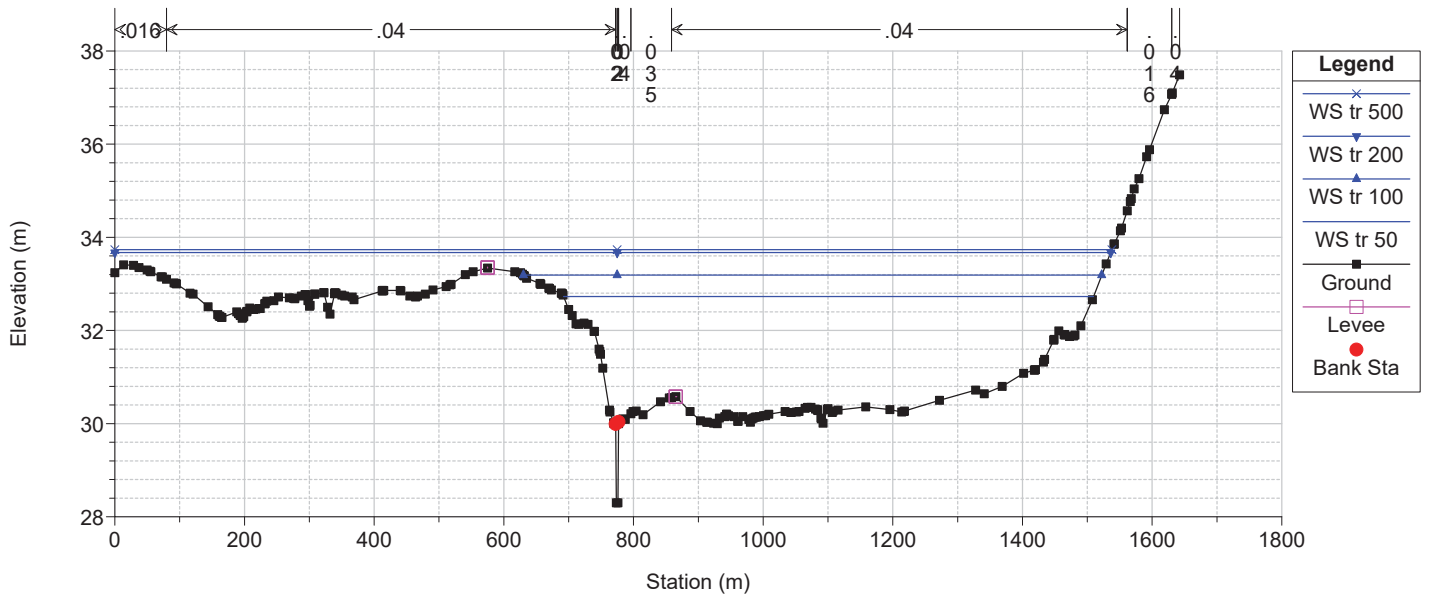
River = Canale urune Reach = Asta 1 RS = 8097.653 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

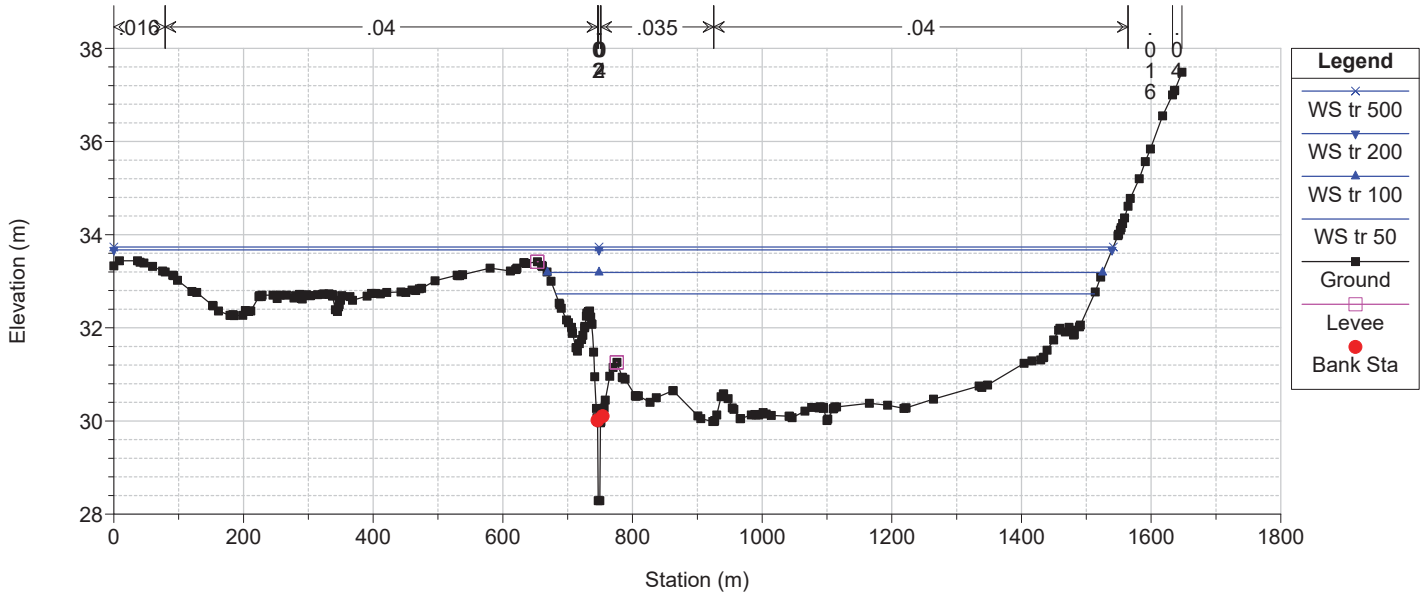
River = Canale urune Reach = Asta 1 RS = 8067.653 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

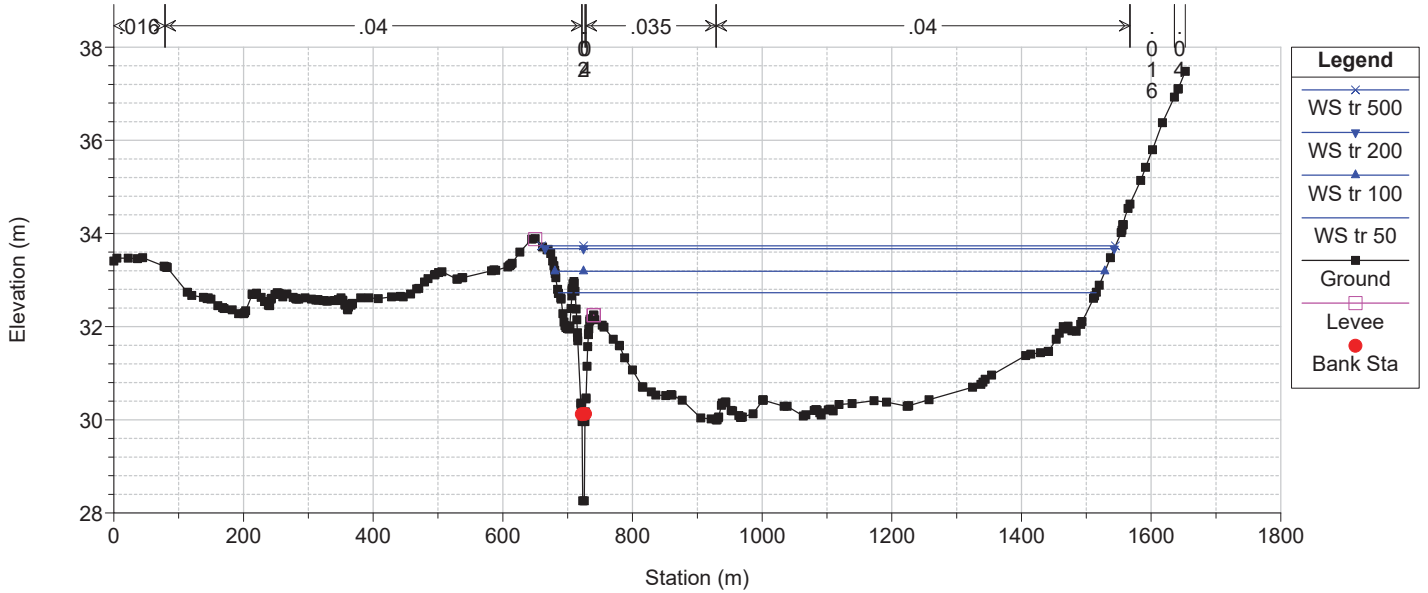
River = Canale urune Reach = Asta 1 RS = 8037.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

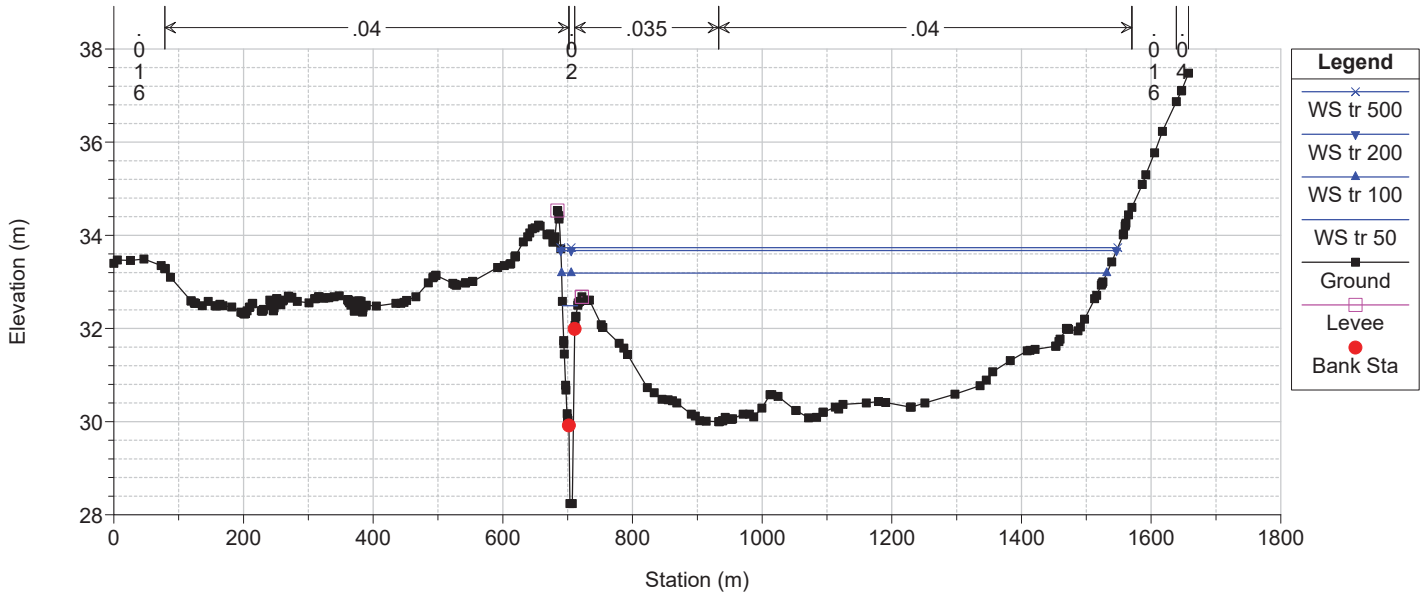
River = Canale urune Reach = Asta 1 RS = 8007.653 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

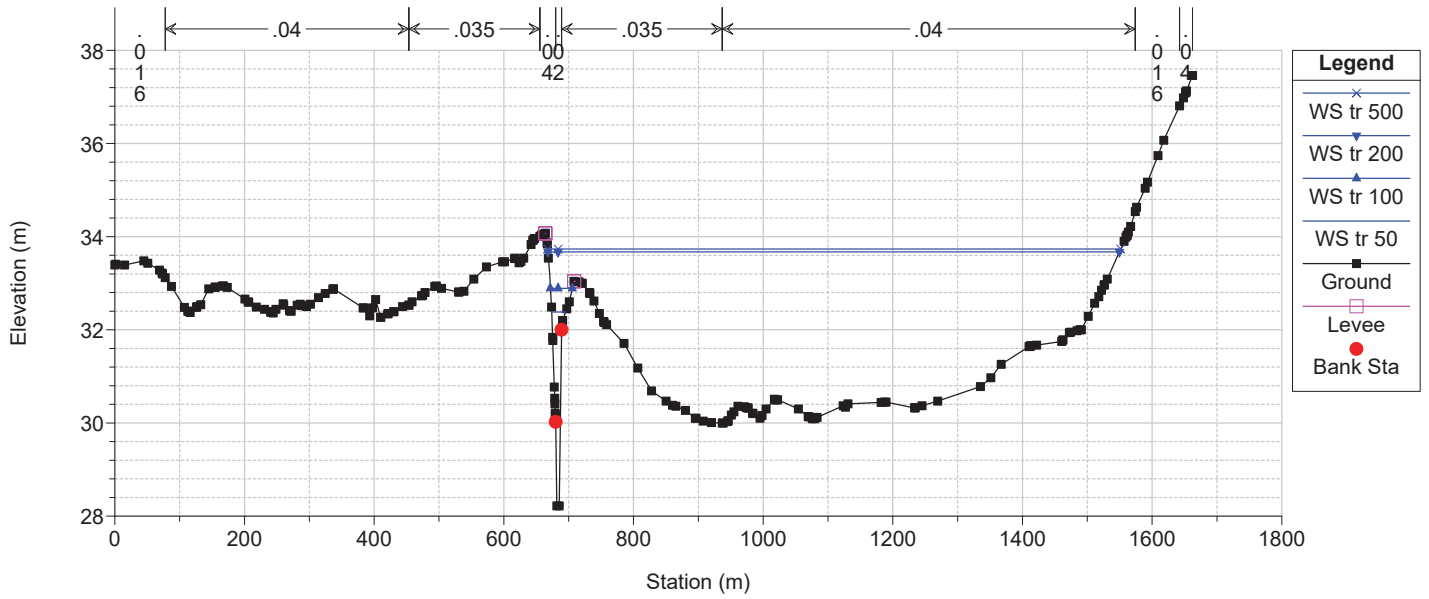
River = Canale urune Reach = Asta 1 RS = 7977.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

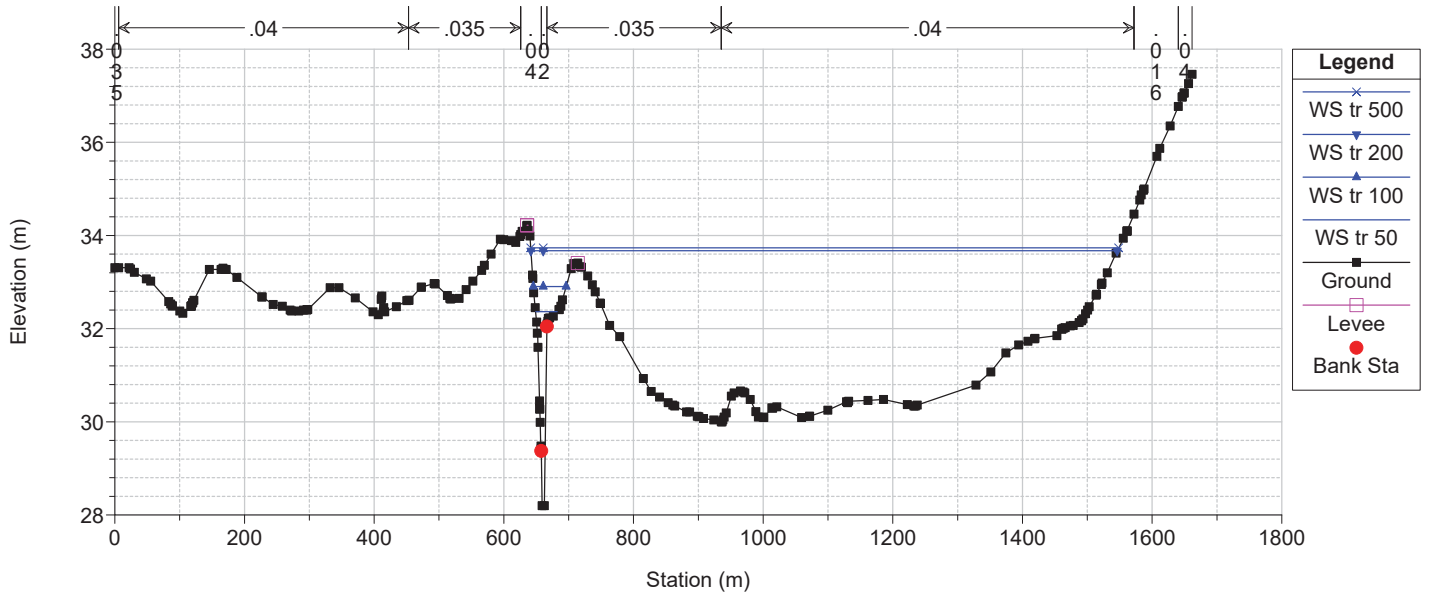
River = Canale urune Reach = Asta 1 RS = 7947.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

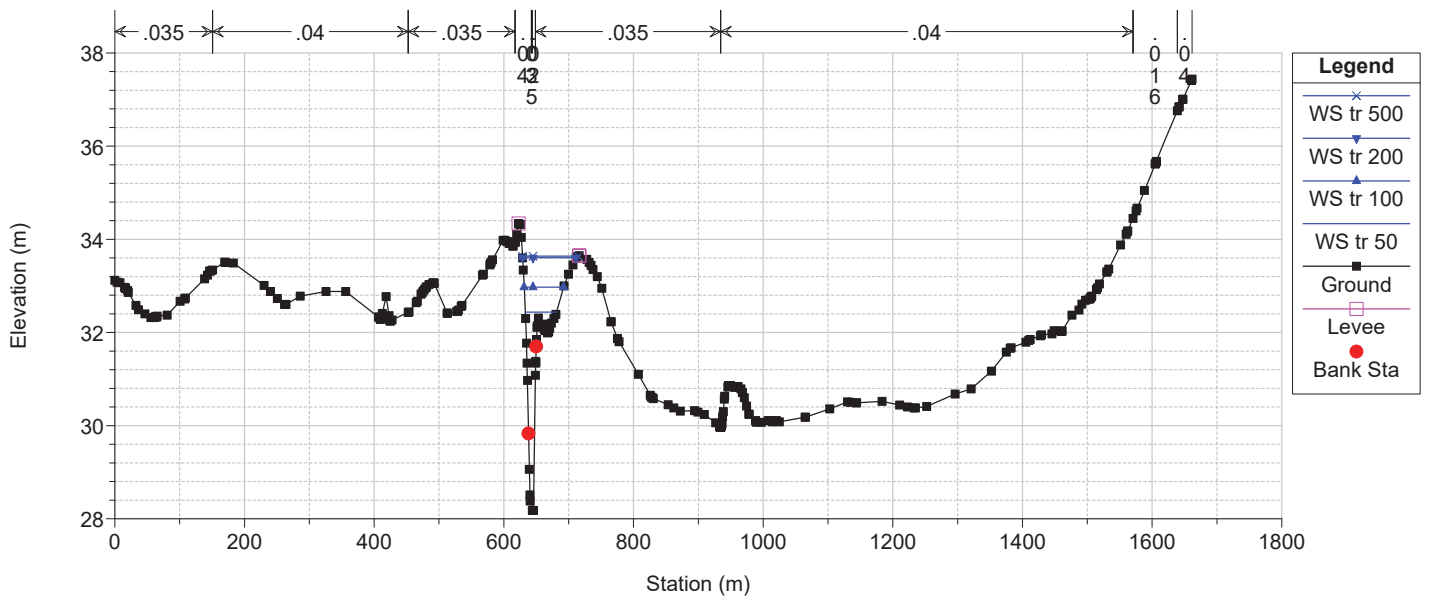
River = Canale urune Reach = Asta 1 RS = 7917.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

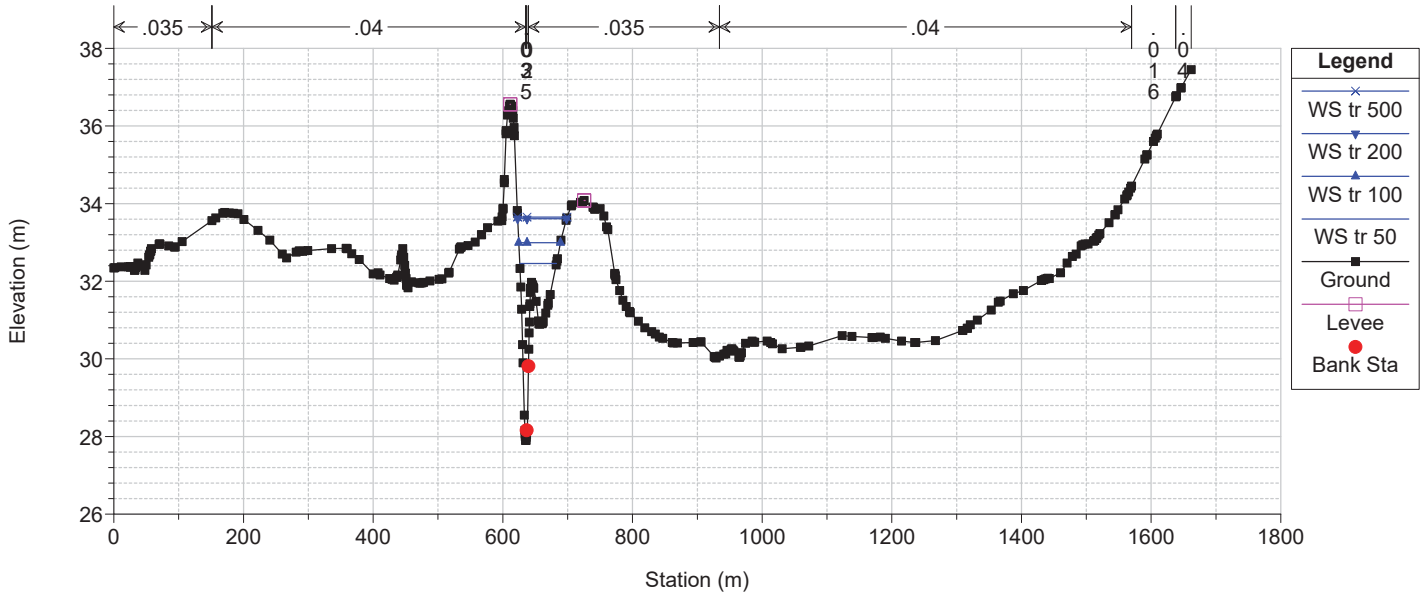
River = Canale urune Reach = Asta 1 RS = 7887.653 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

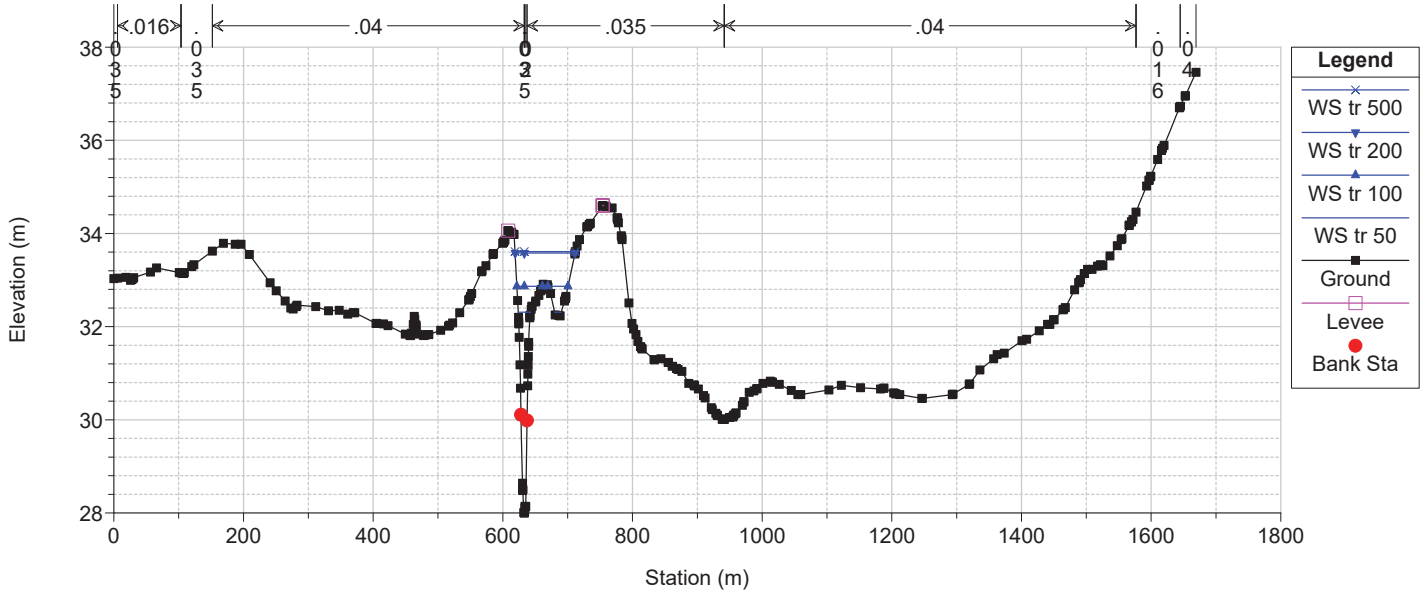
River = Canale urune Reach = Asta 1 RS = 7857.653 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

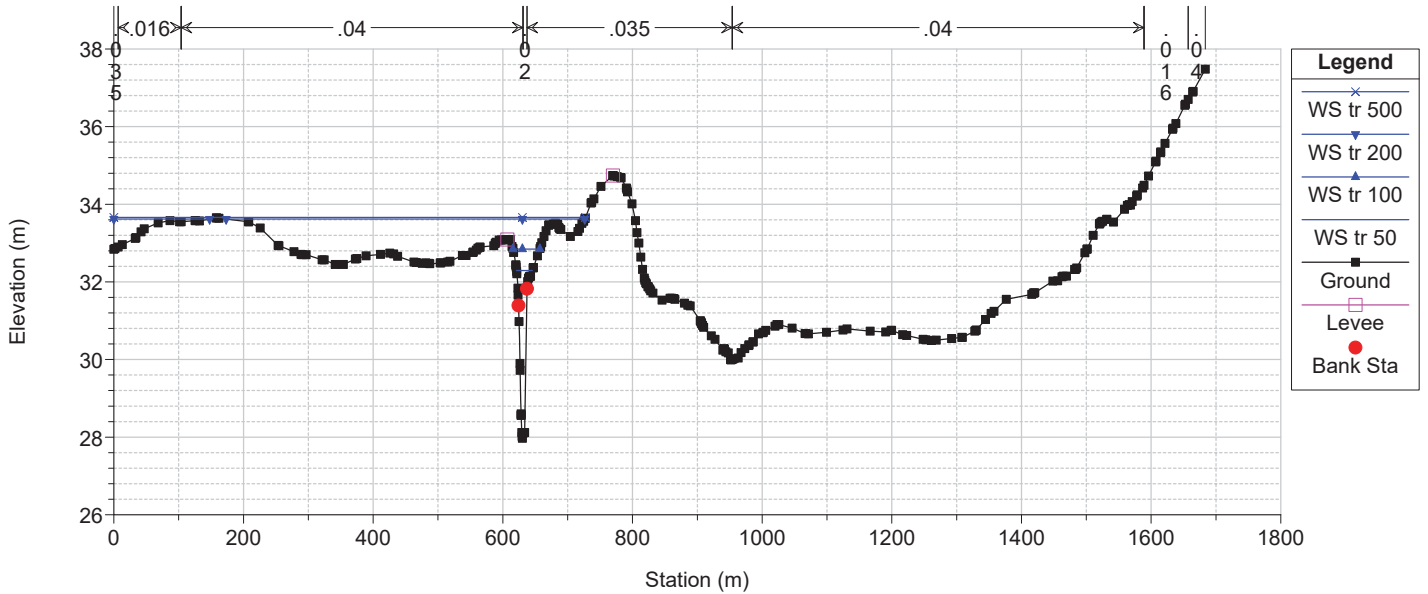
River = Canale urune Reach = Asta 1 RS = 7827.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

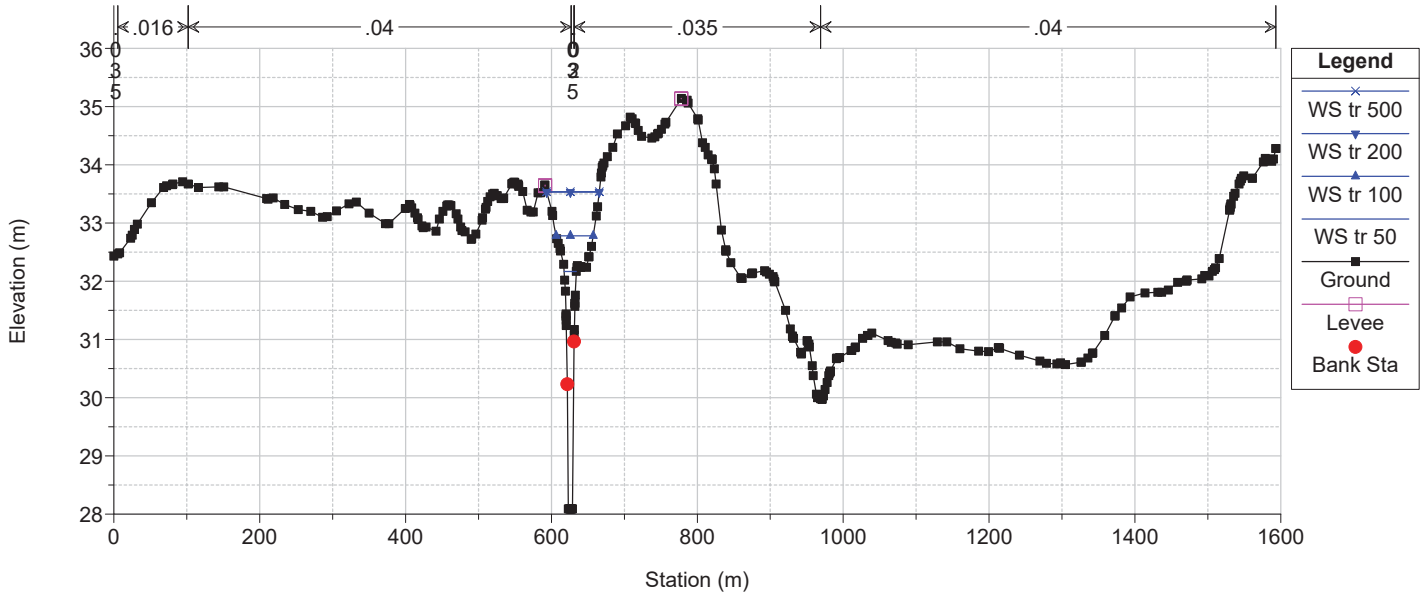
River = Canale urune Reach = Asta 1 RS = 7790.695 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

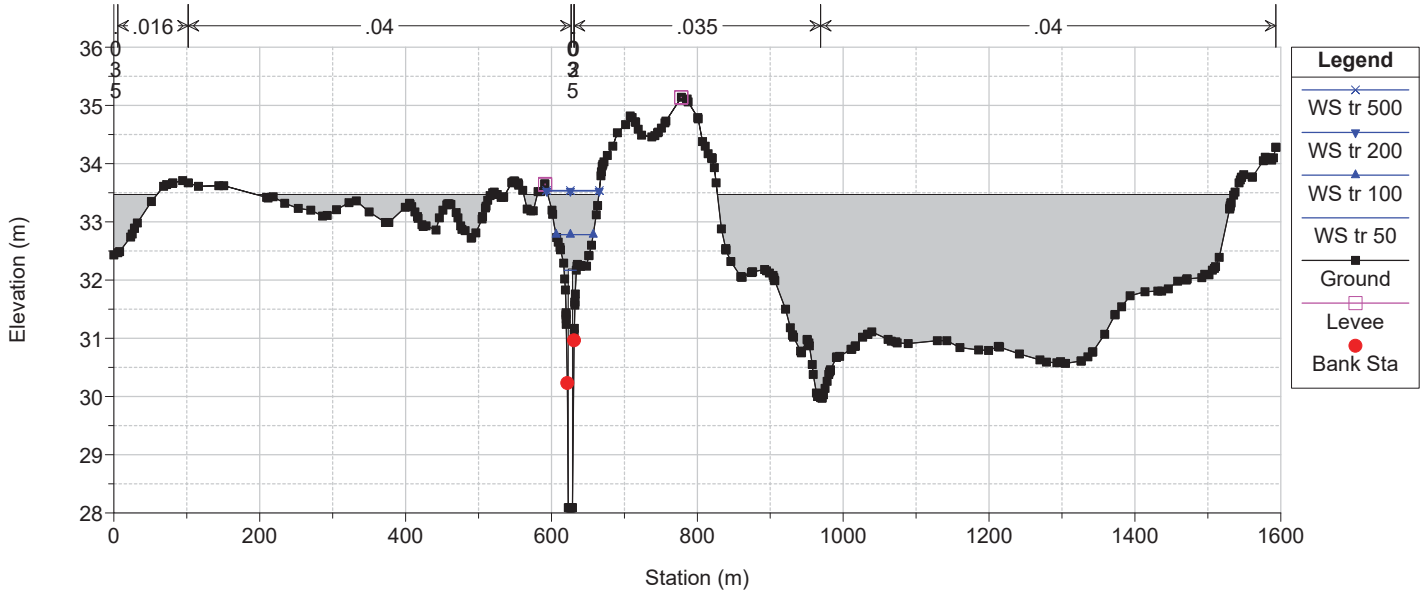
River = Canale urune Reach = Asta 1 RS = 7745.885 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

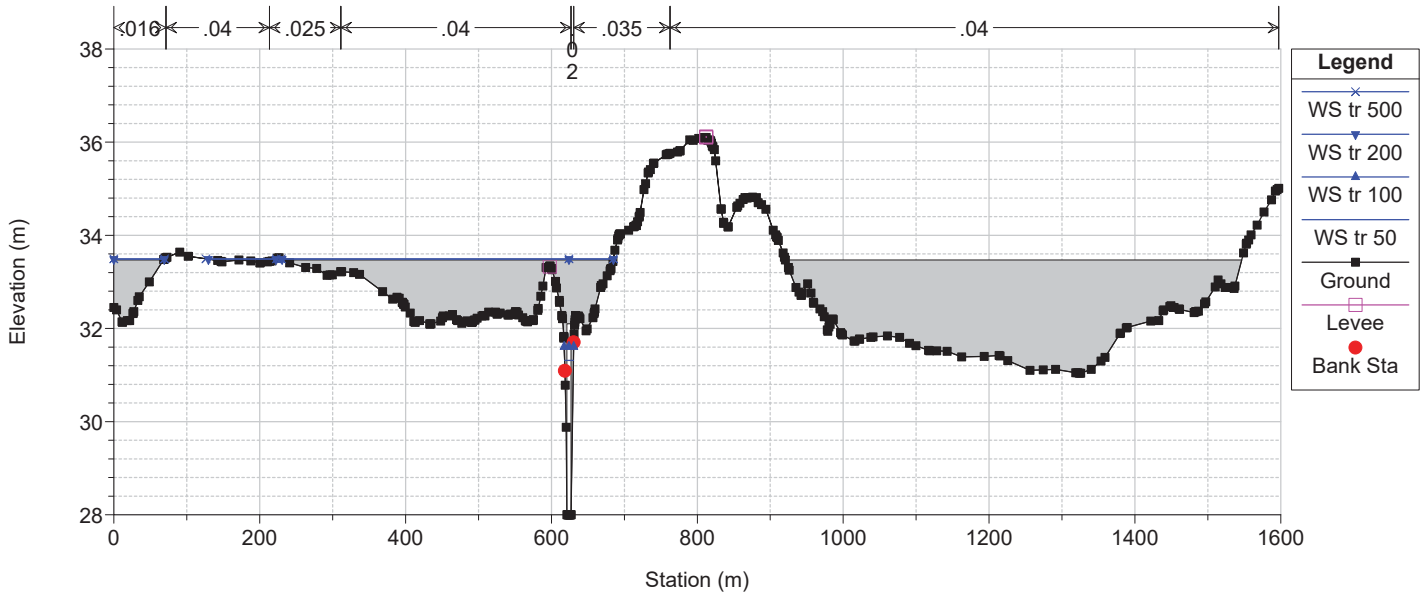
River = Canale urune Reach = Asta 1 RS = 7736.391 Culv COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

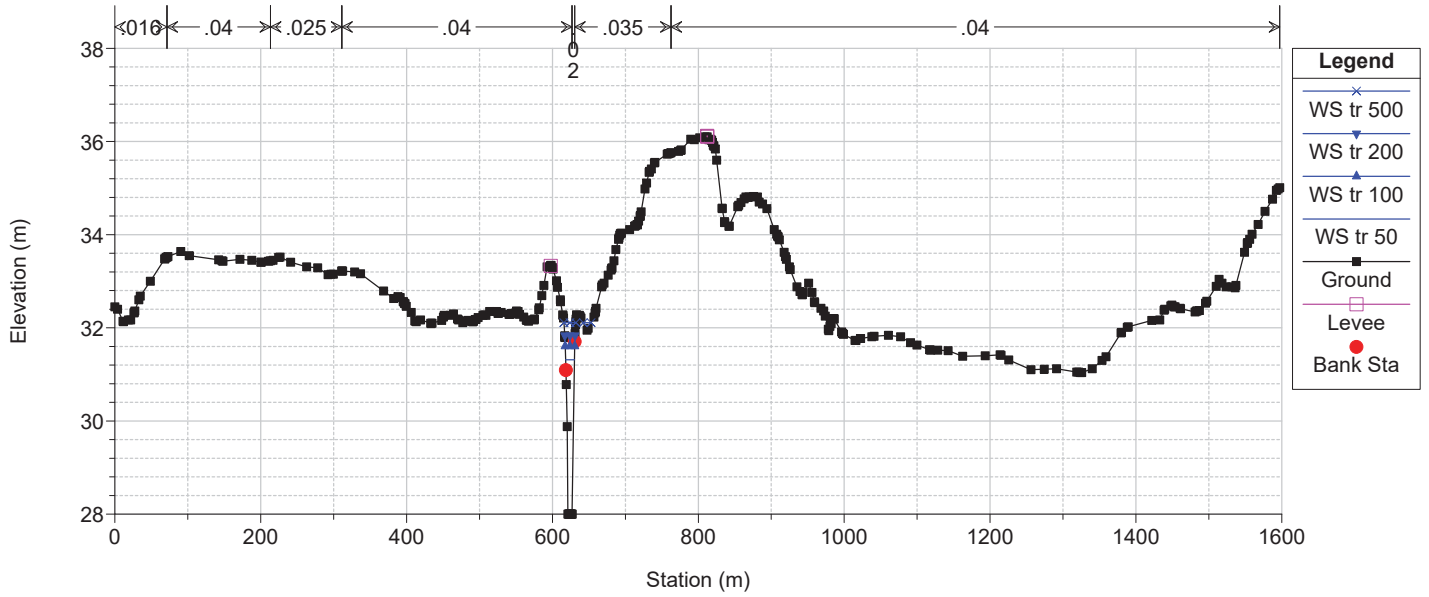
River = Canale urune Reach = Asta 1 RS = 7736.391 Culv COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

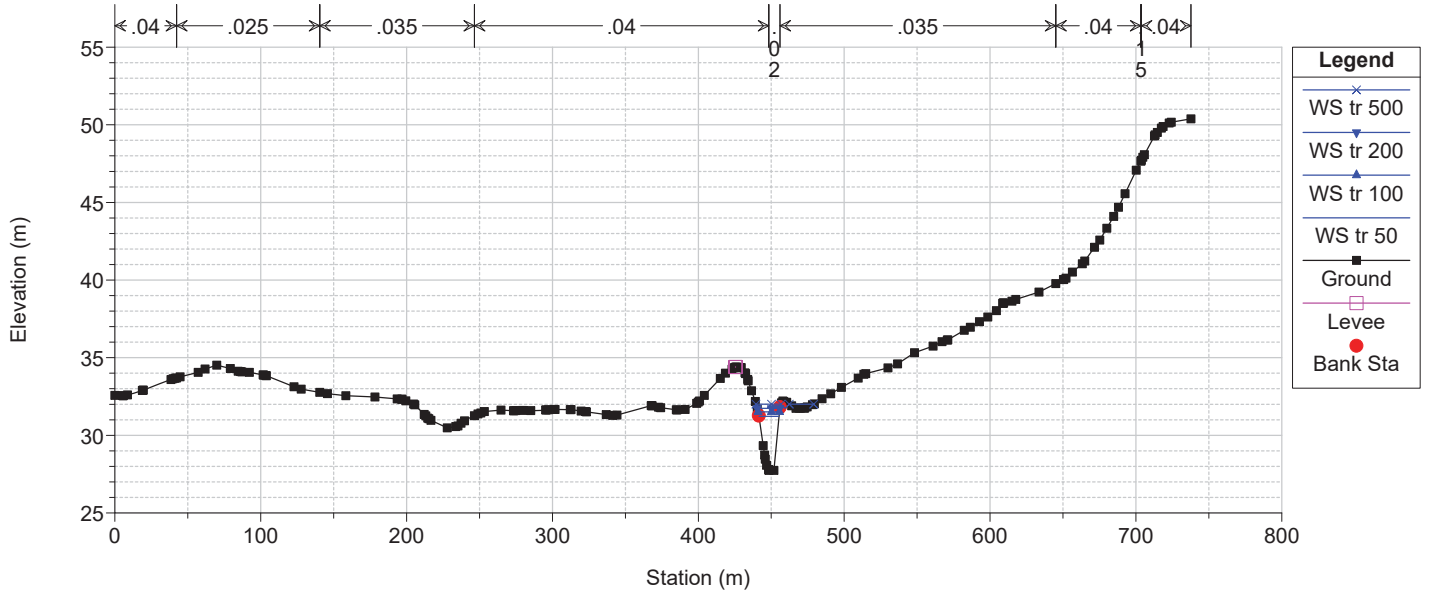
River = Canale urune Reach = Asta 1 RS = 7726.396 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

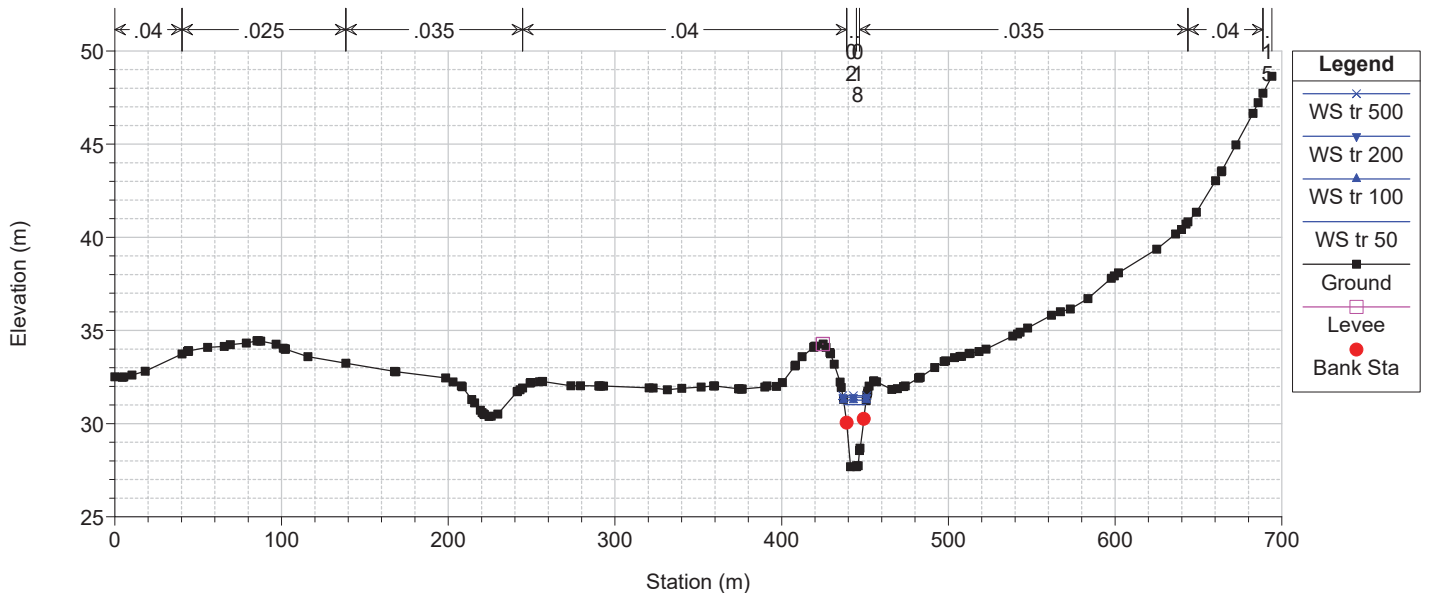
River = Canale urune Reach = Asta 1 RS = 7677.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

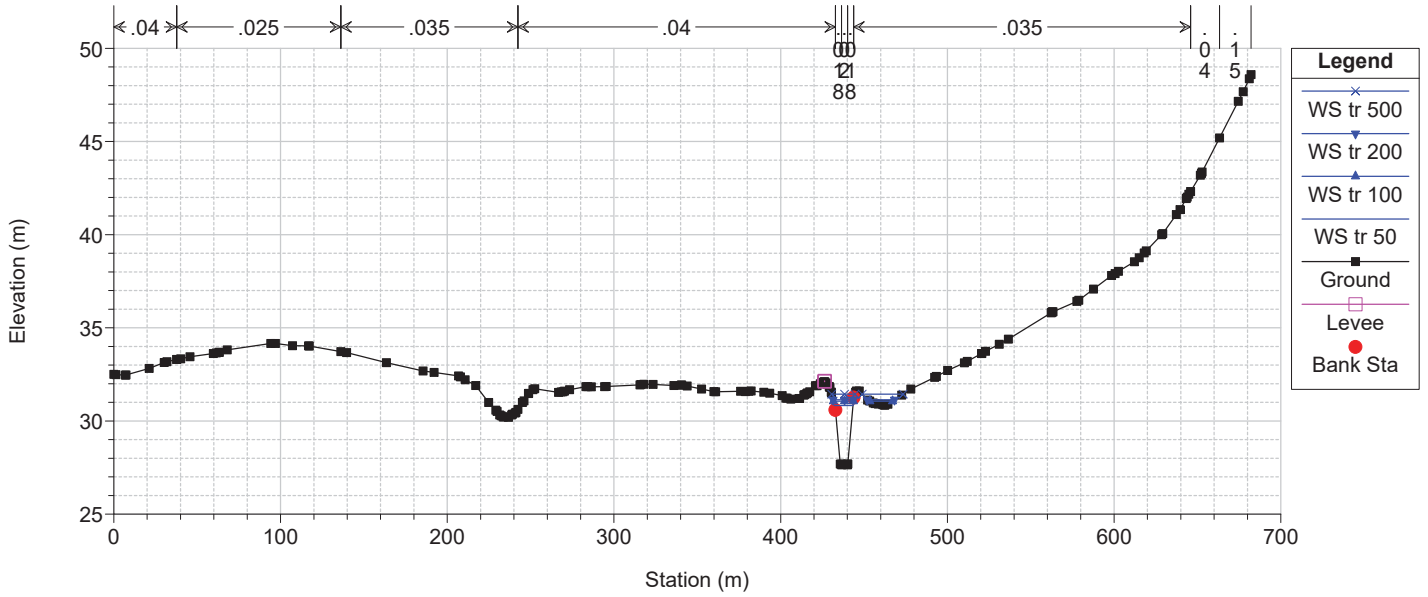
River = Canale urune Reach = Asta 1 RS = 7647.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

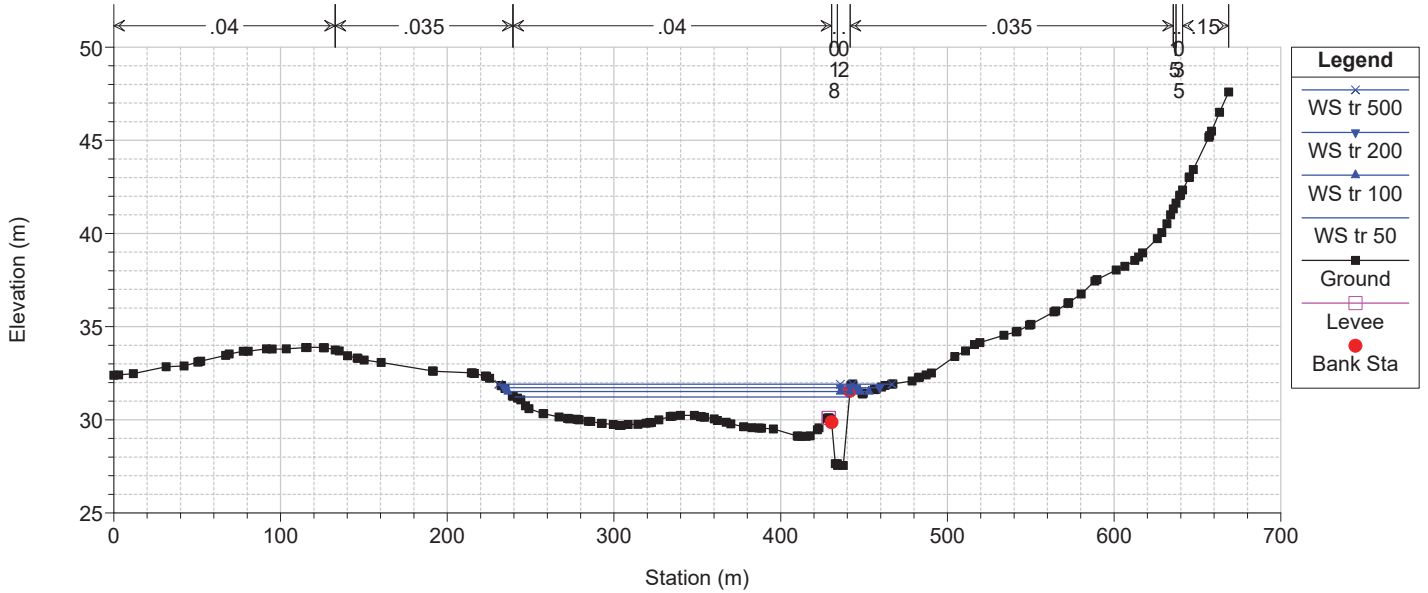
River = Canale urune Reach = Asta 1 RS = 7617.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

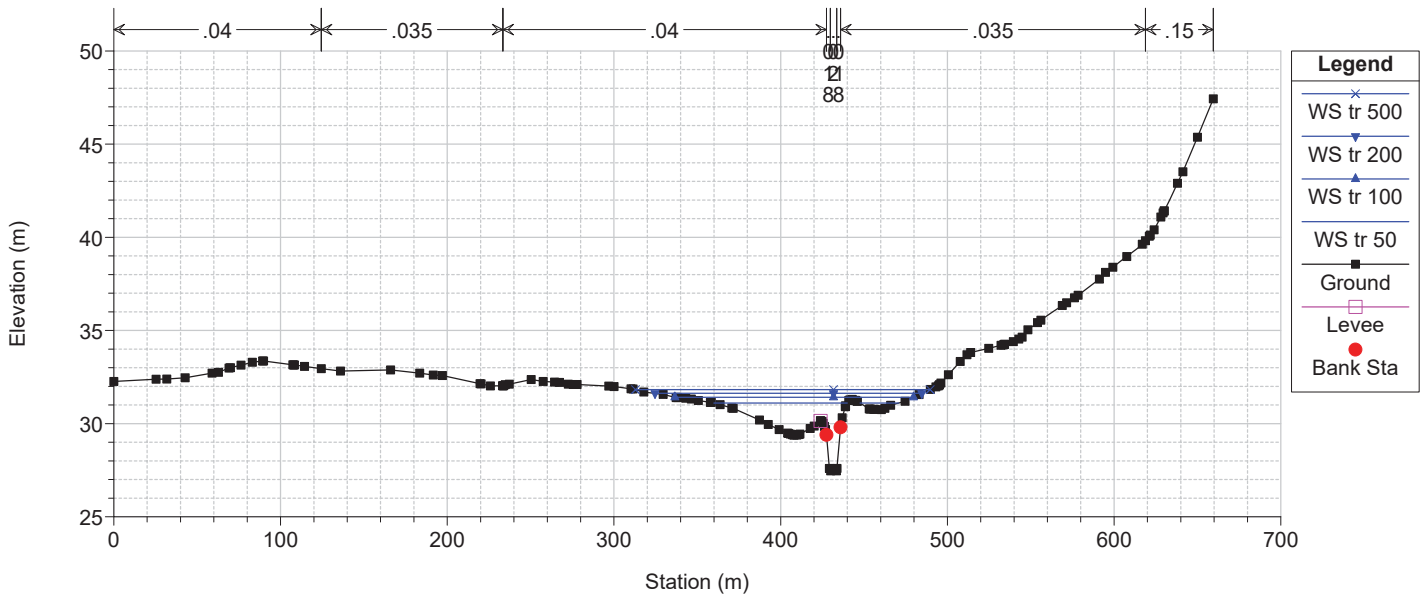
River = Canale urune Reach = Asta 1 RS = 7587.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

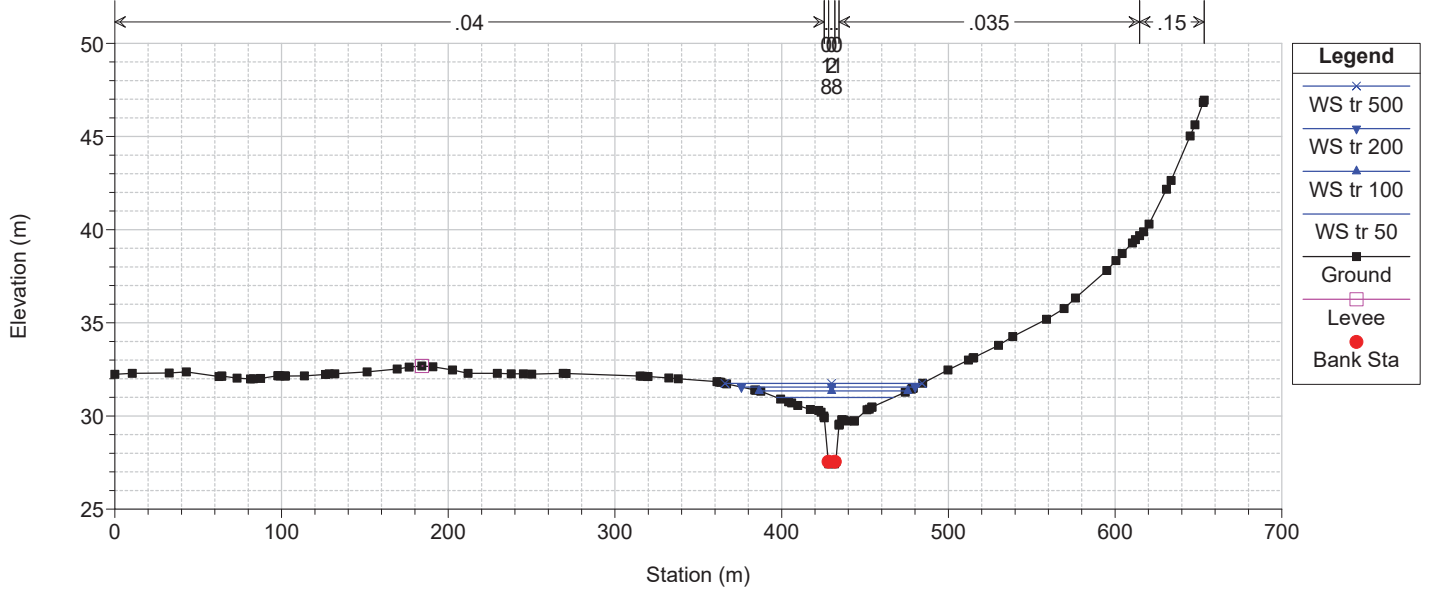
River = Canale urune Reach = Asta 1 RS = 7557.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

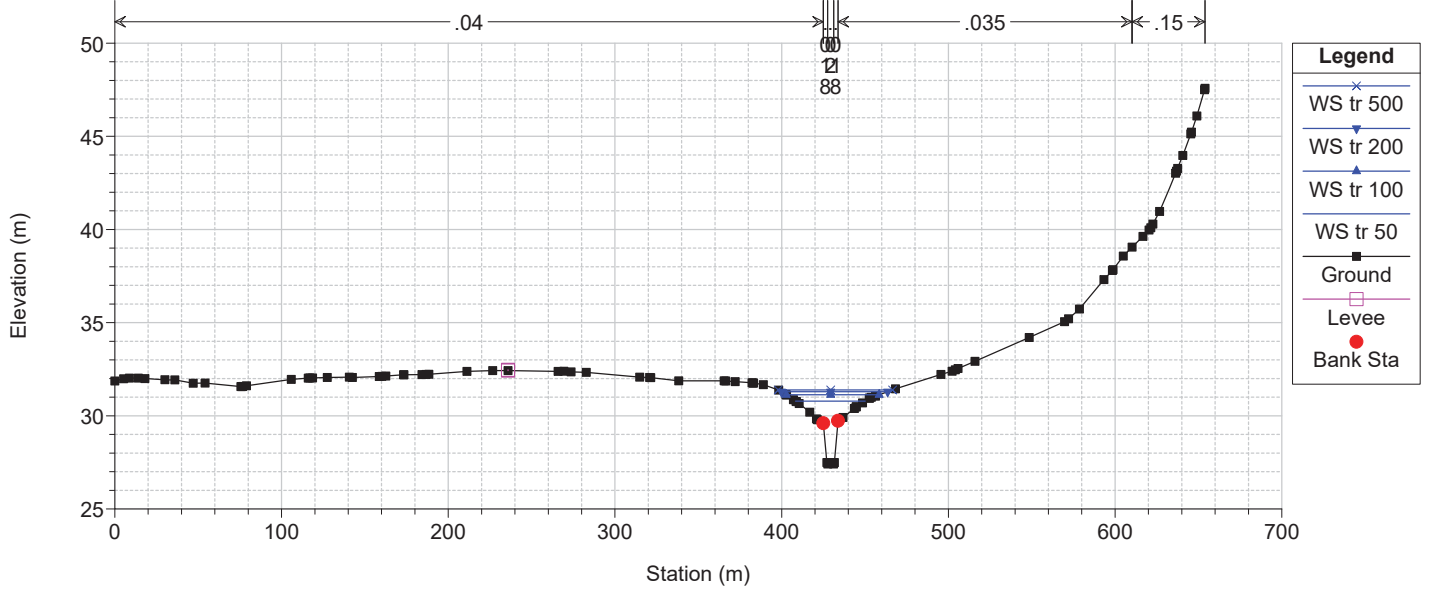
River = Canale urune Reach = Asta 1 RS = 7527.653 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

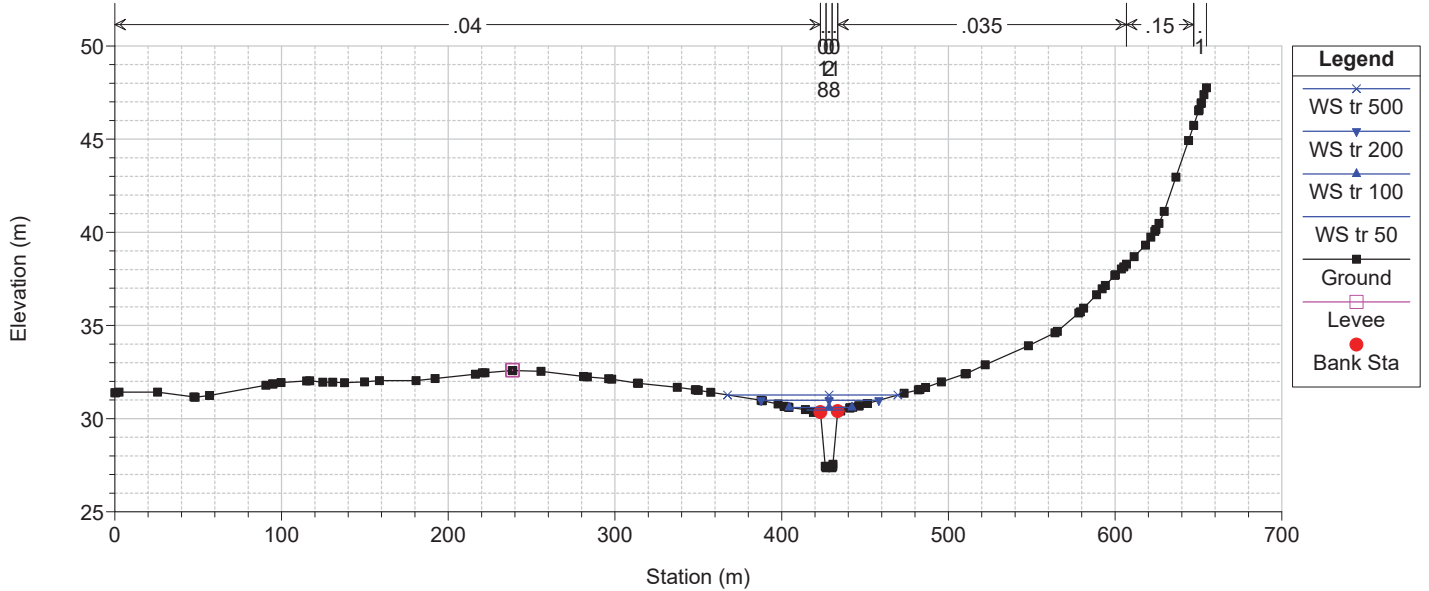
River = Canale urune Reach = Asta 1 RS = 7497.653 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

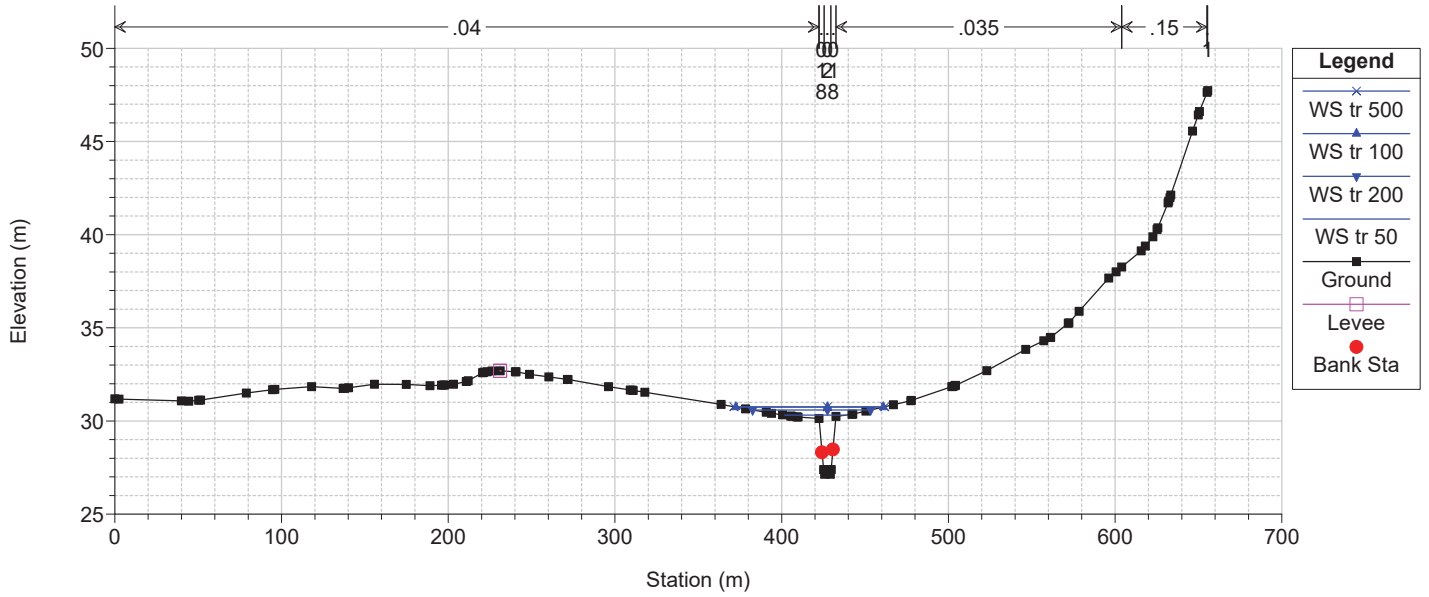
River = Canale urune Reach = Asta 1 RS = 7467.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

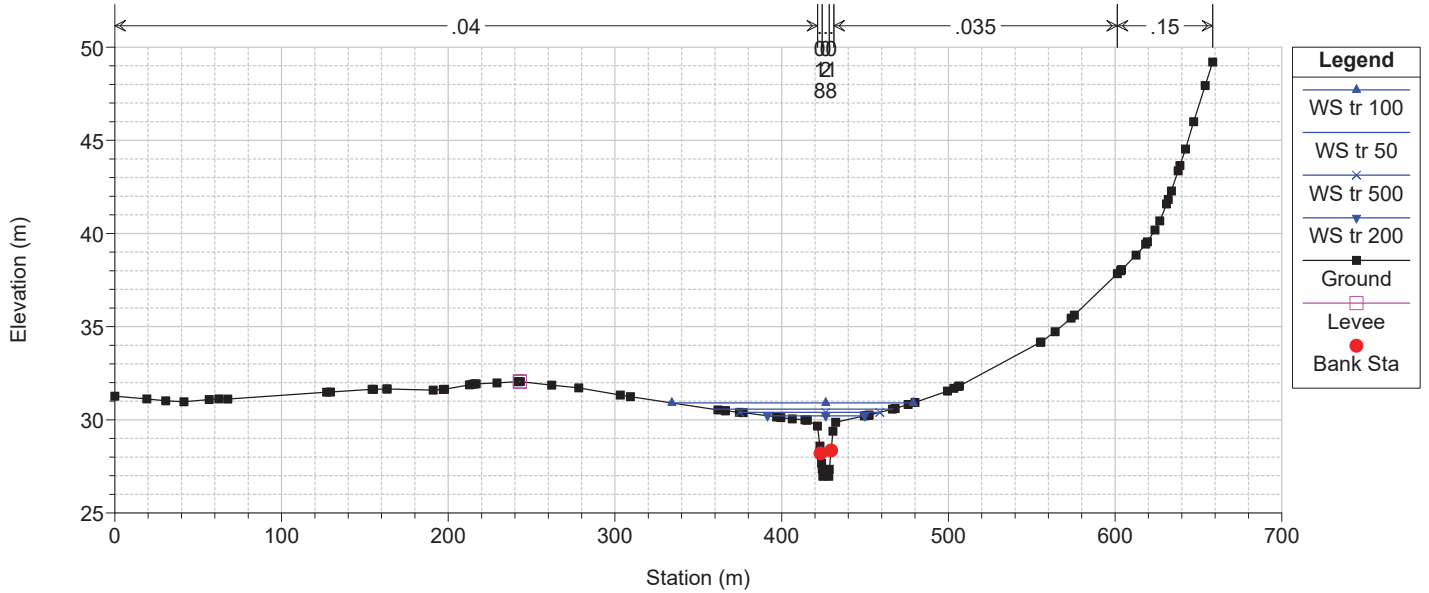
River = Canale urune Reach = Asta 1 RS = 7437.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

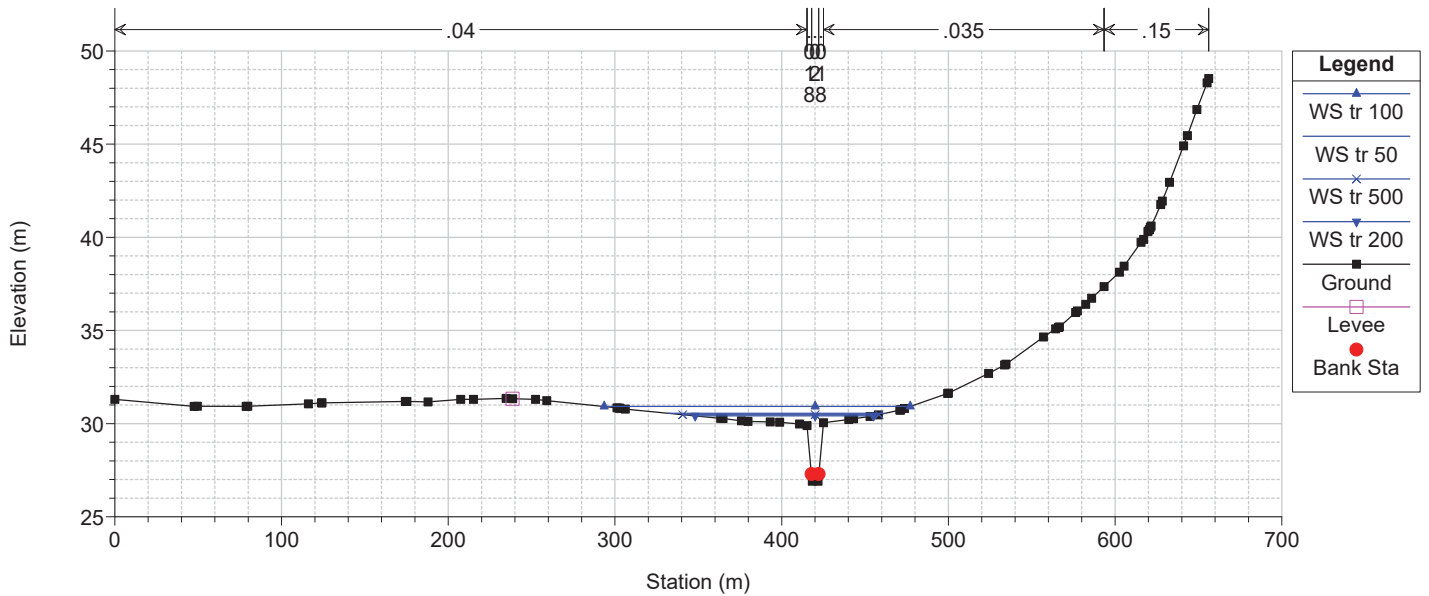
River = Canale urune Reach = Asta 1 RS = 7407.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

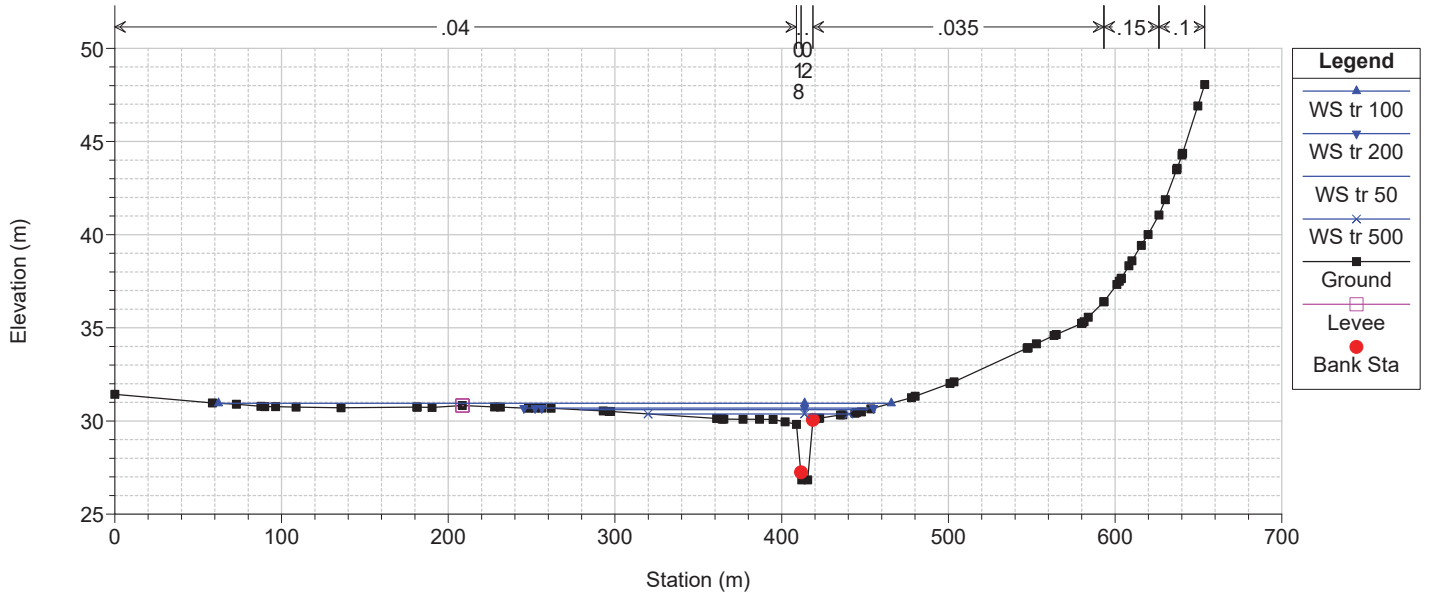
River = Canale urune Reach = Asta 1 RS = 7377.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

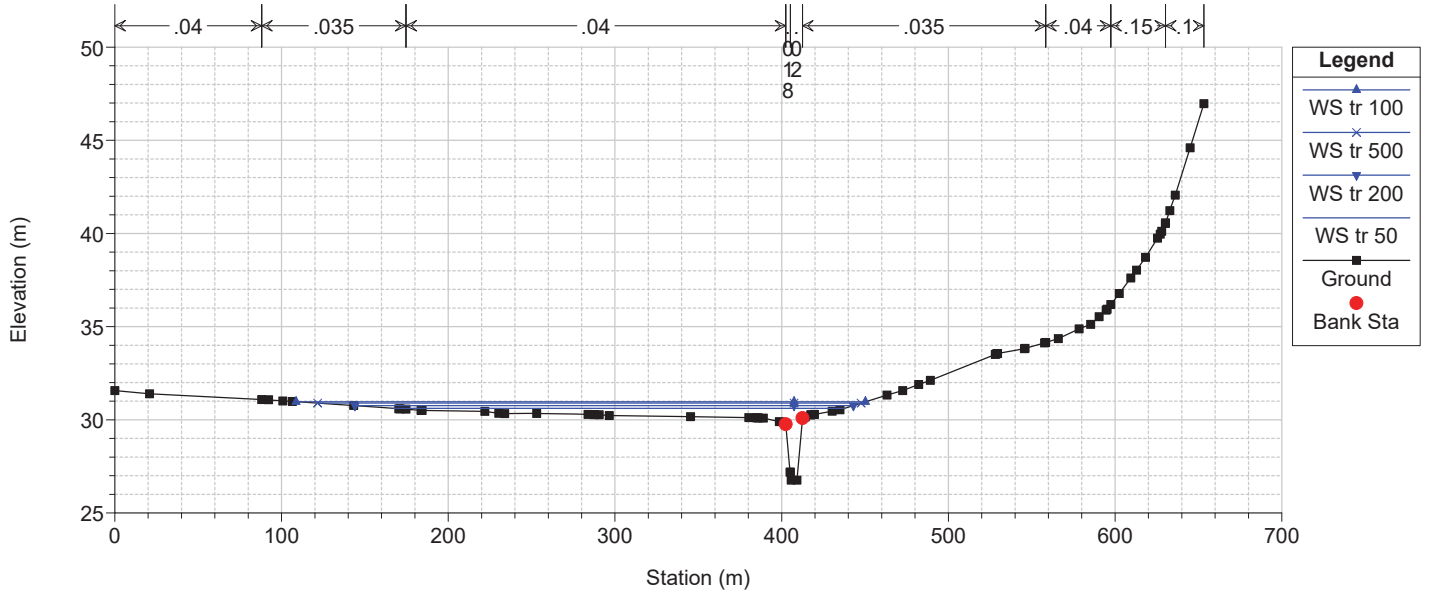
River = Canale urune Reach = Asta 1 RS = 7347.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

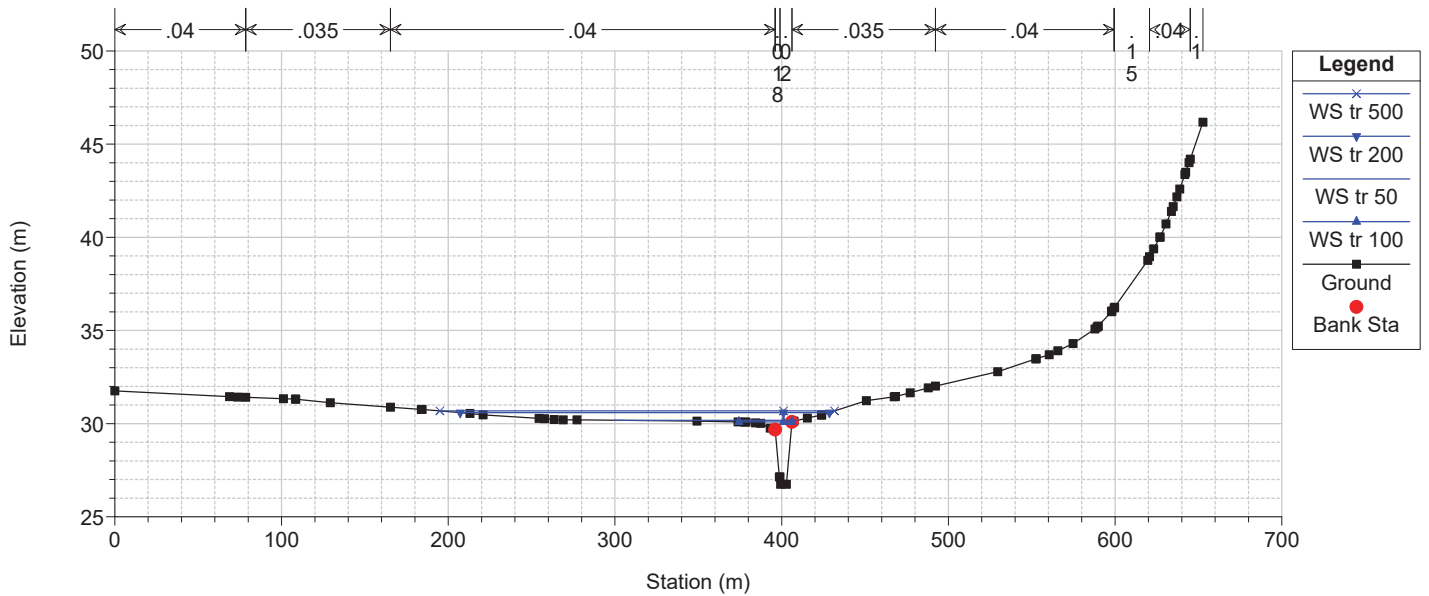
River = Canale urune Reach = Asta 1 RS = 7317.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

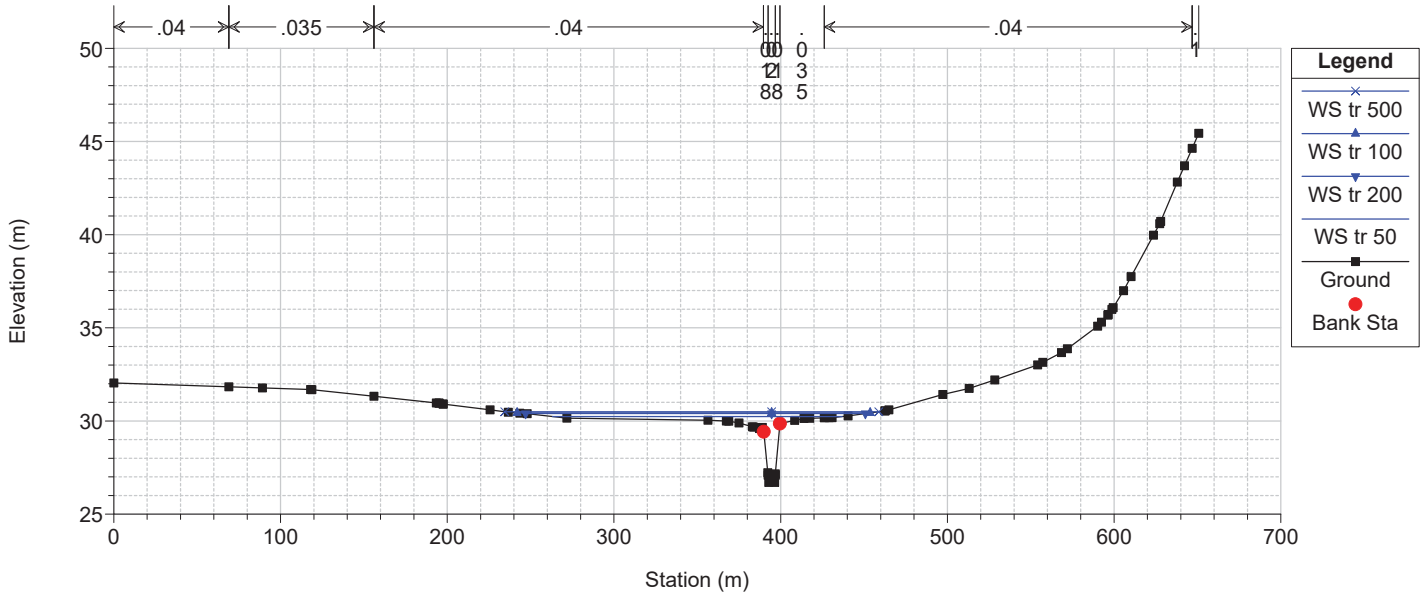
River = Canale urune Reach = Asta 1 RS = 7287.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

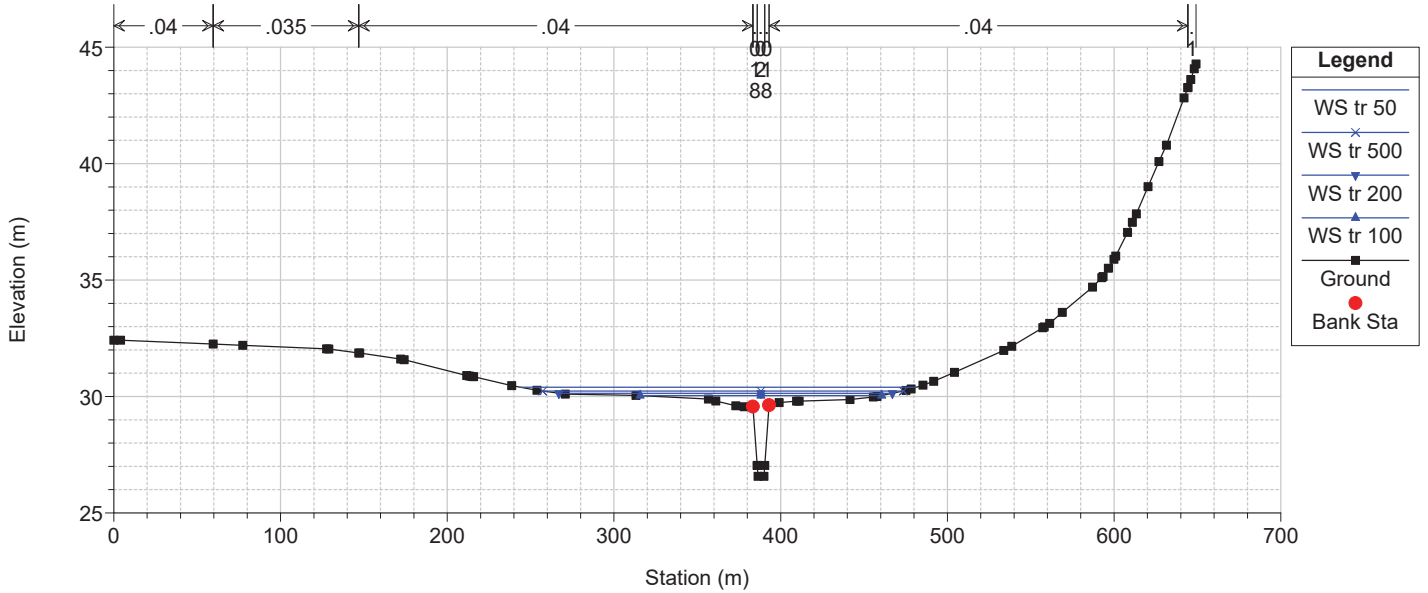
River = Canale urune Reach = Asta 1 RS = 7257.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

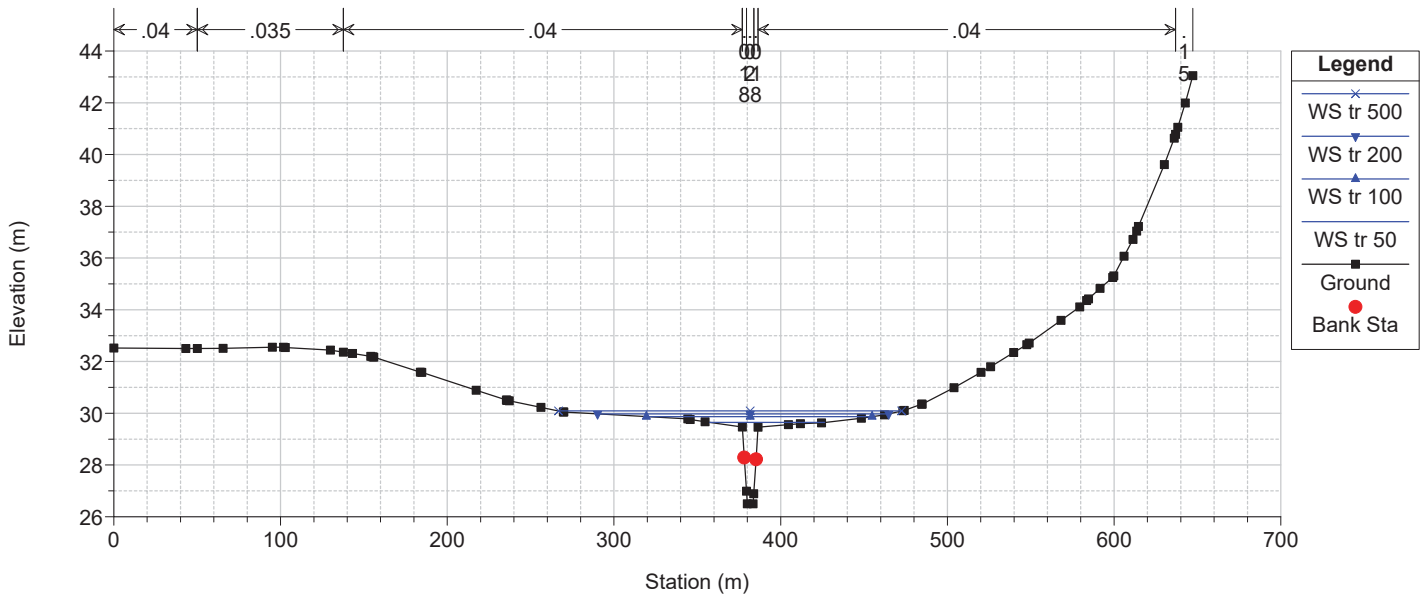
River = Canale urune Reach = Asta 1 RS = 7227.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

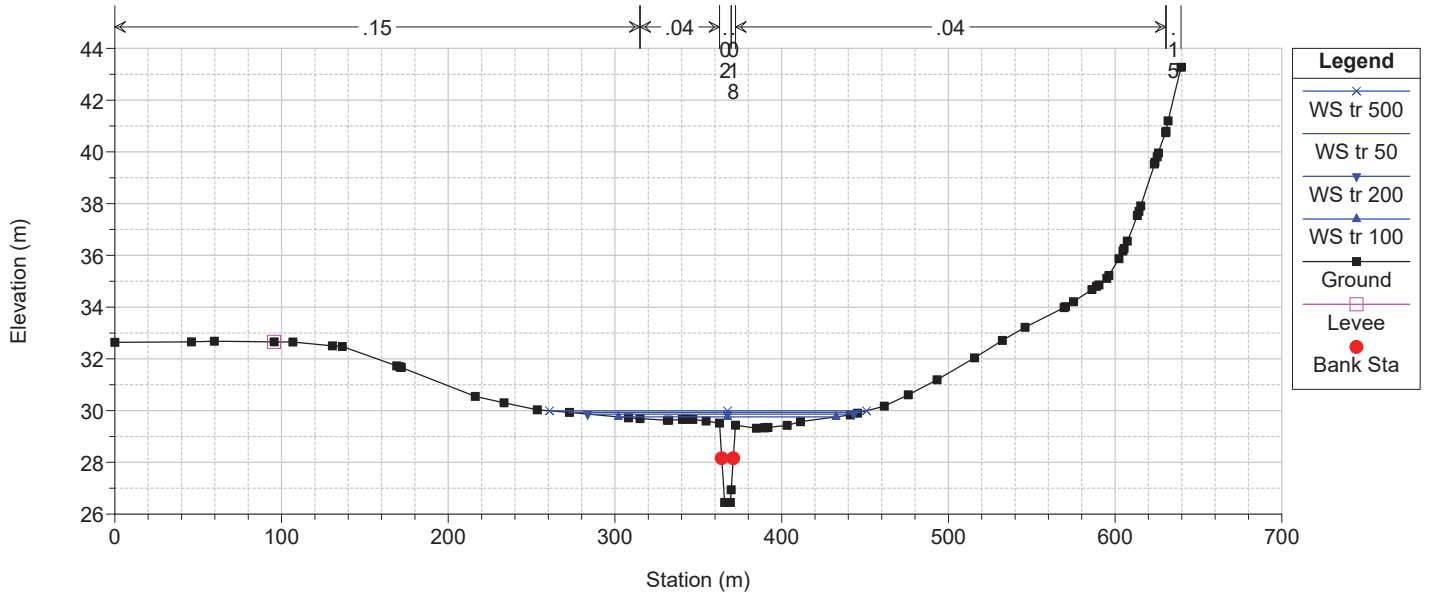
River = Canale urune Reach = Asta 1 RS = 7197.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

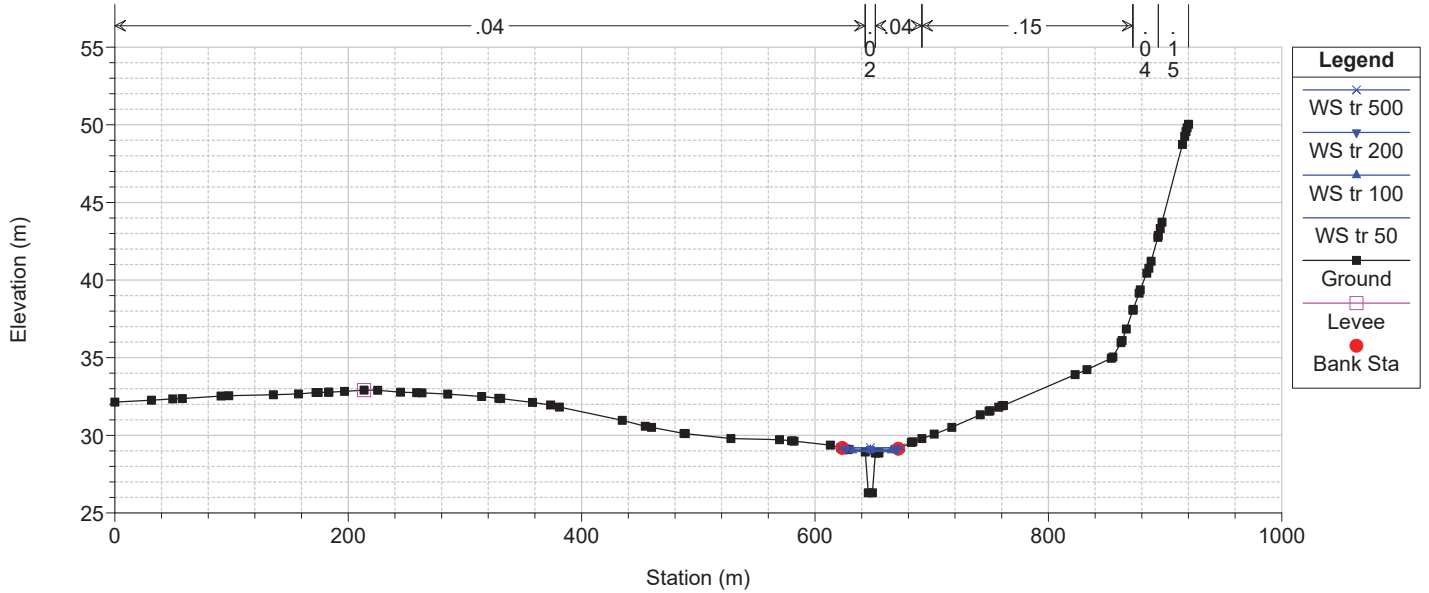
River = Canale urune Reach = Asta 1 RS = 7167.653 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

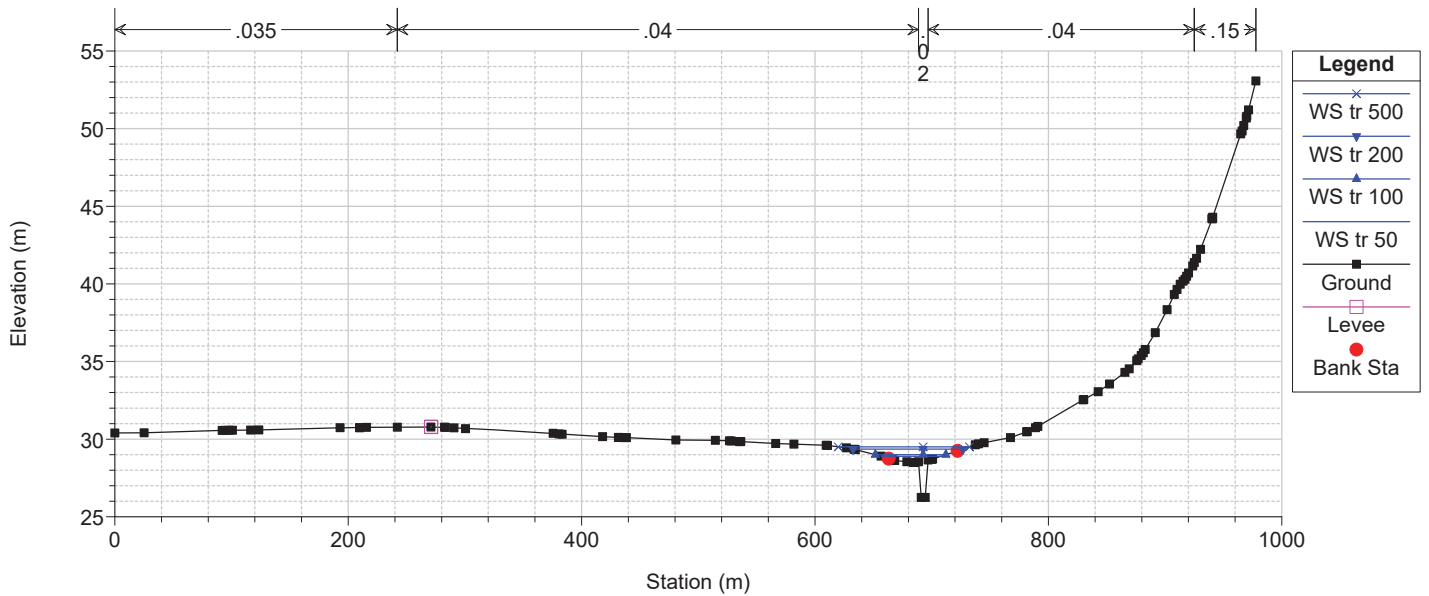
River = Canale urune Reach = Asta 1 RS = 7106.07 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

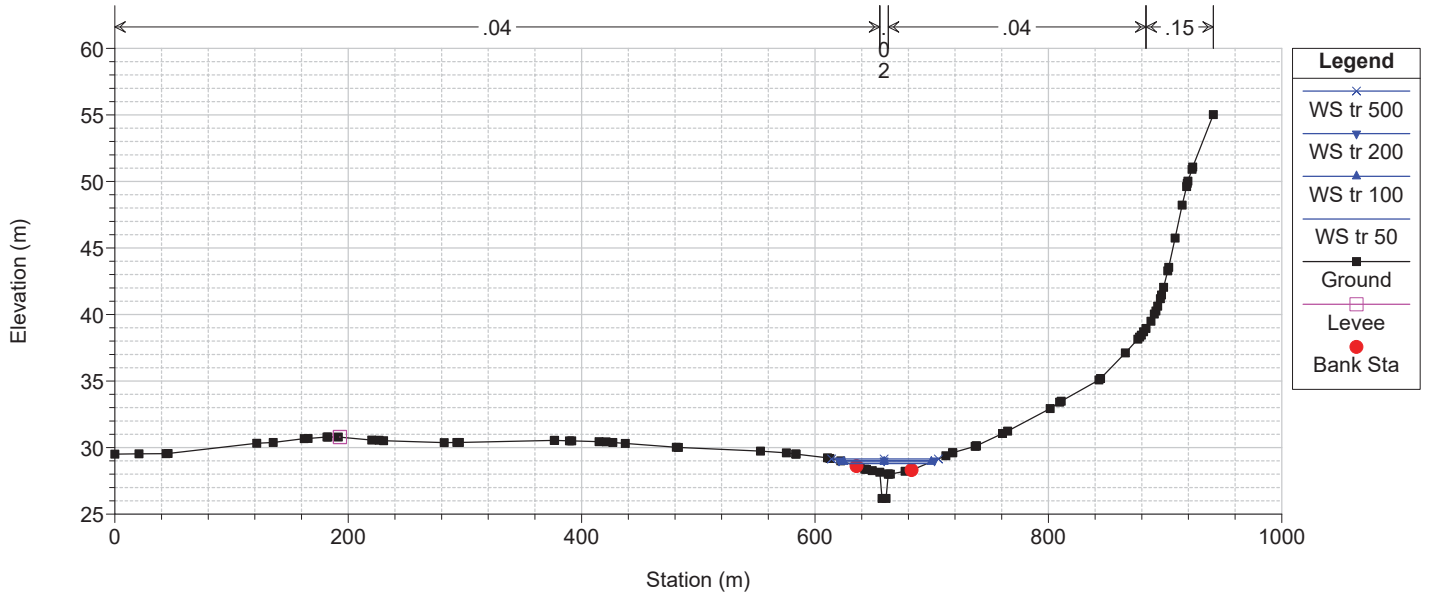
River = Canale urune Reach = Asta 1 RS = 7001.796 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

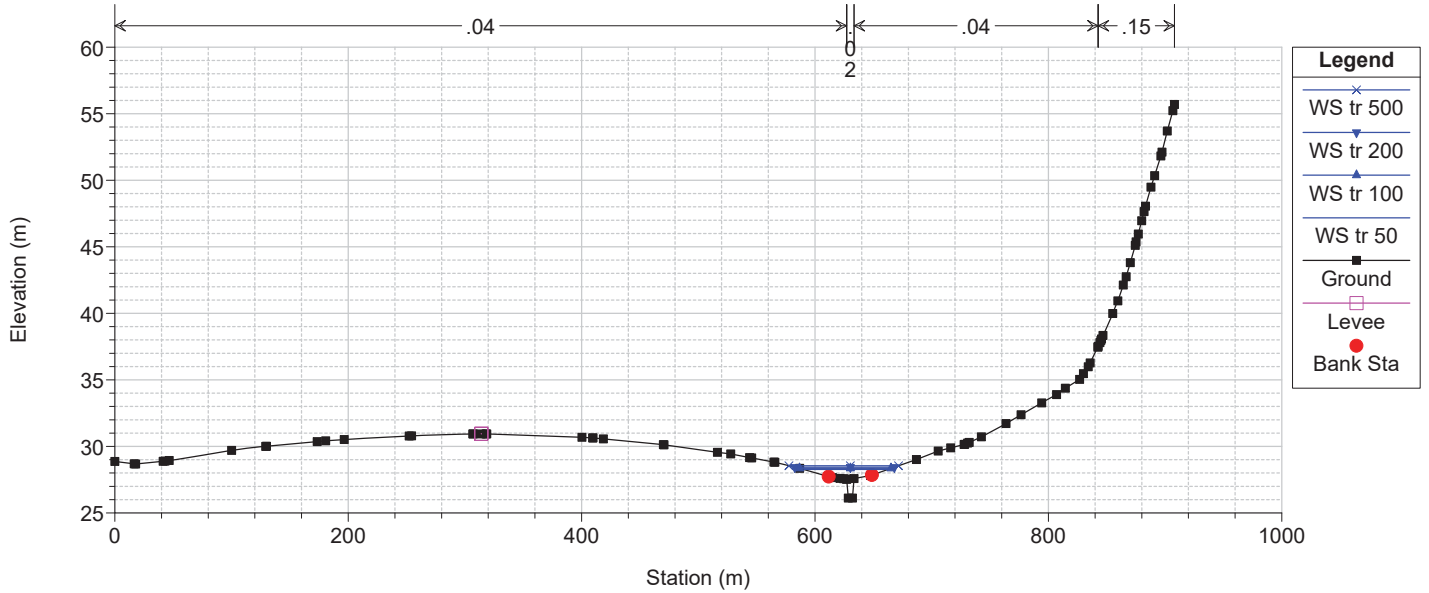
River = Canale urune Reach = Asta 1 RS = 6885.774 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

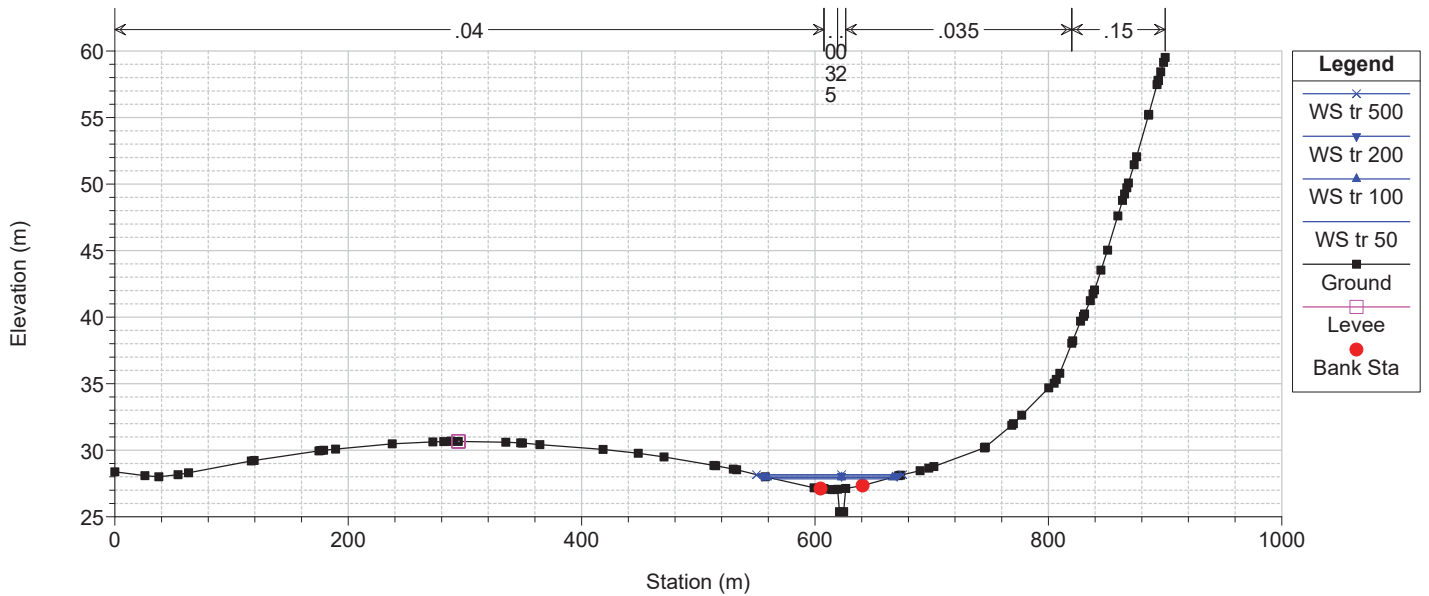
River = Canale urune Reach = Asta 1 RS = 6759.229 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

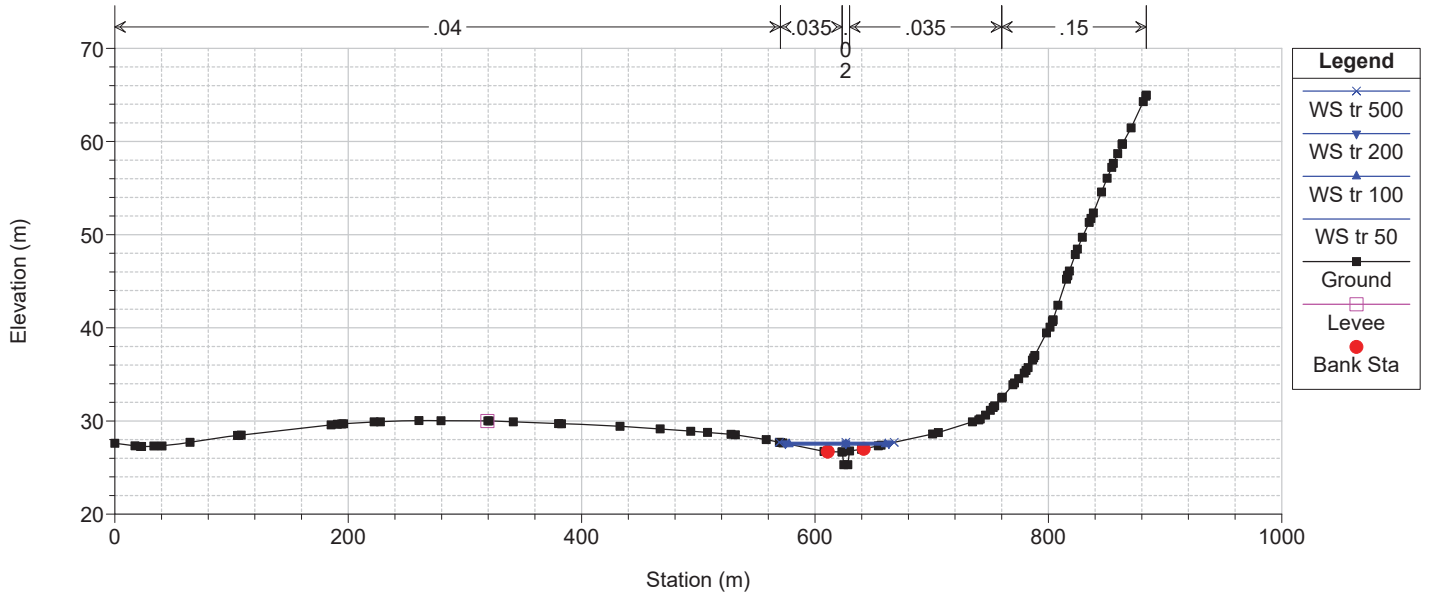
River = Canale urune Reach = Asta 1 RS = 6643.701 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

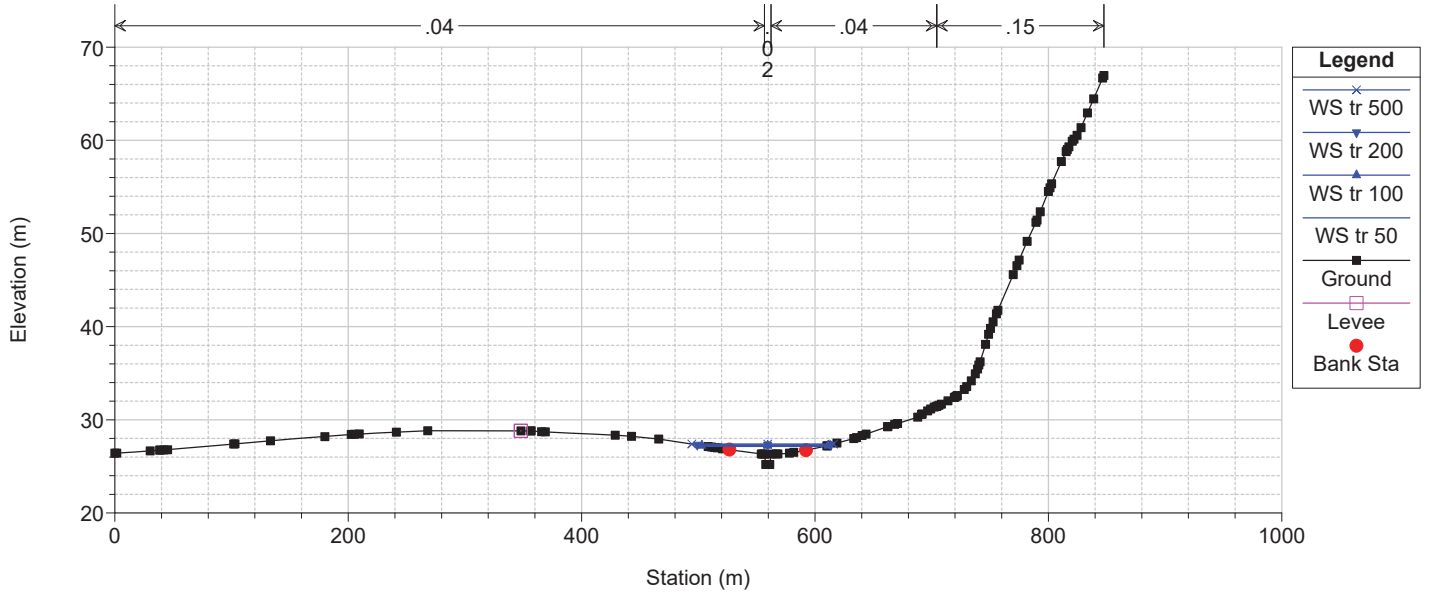
River = Canale urune Reach = Asta 1 RS = 6538.358 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

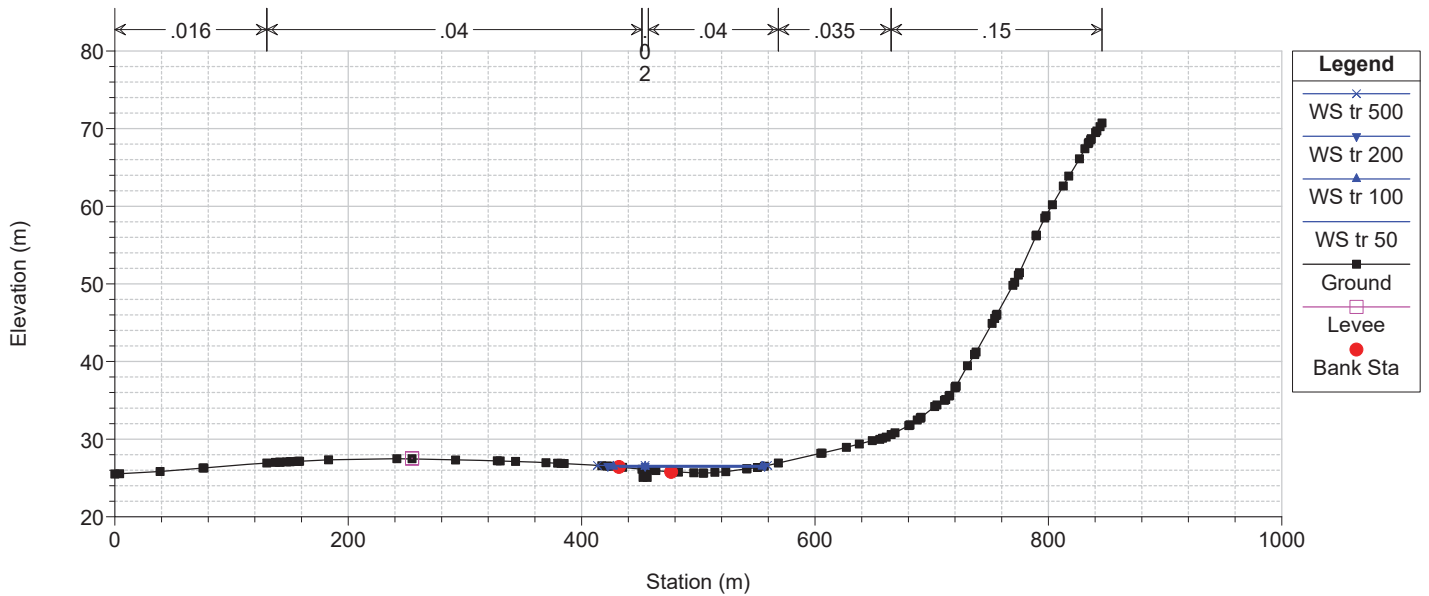
River = Canale urune Reach = Asta 1 RS = 6435.705 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

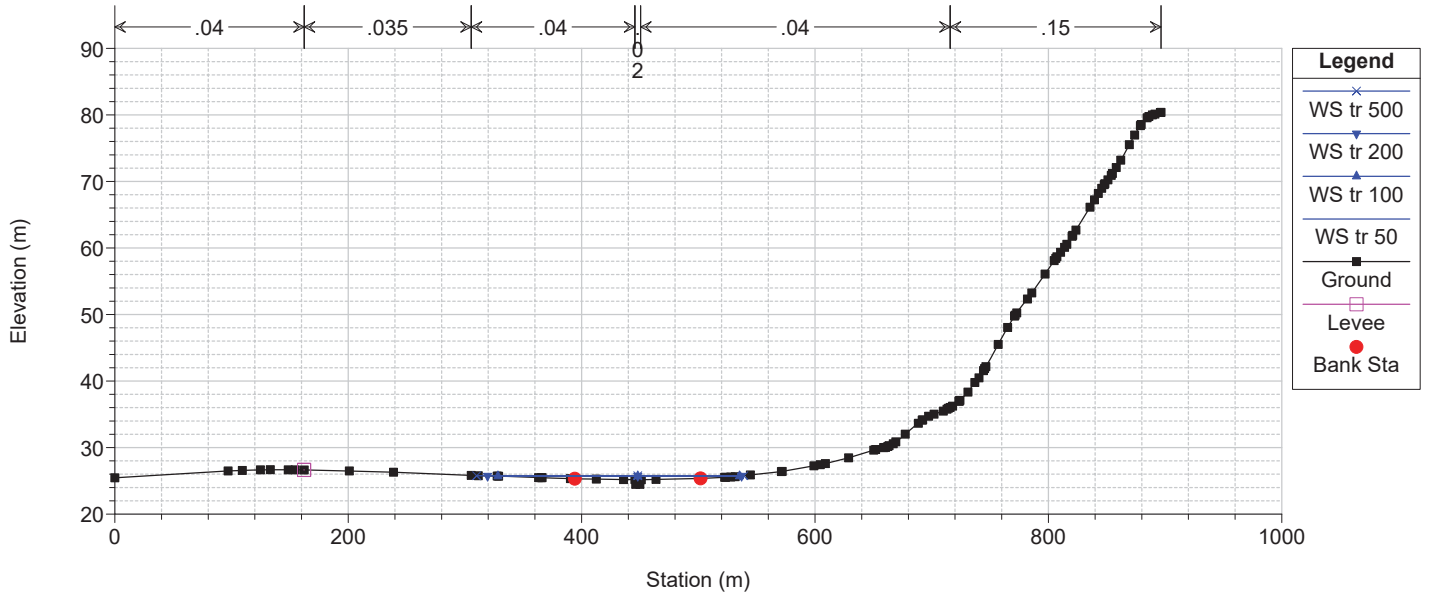
River = Canale urune Reach = Asta 1 RS = 6243.105 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

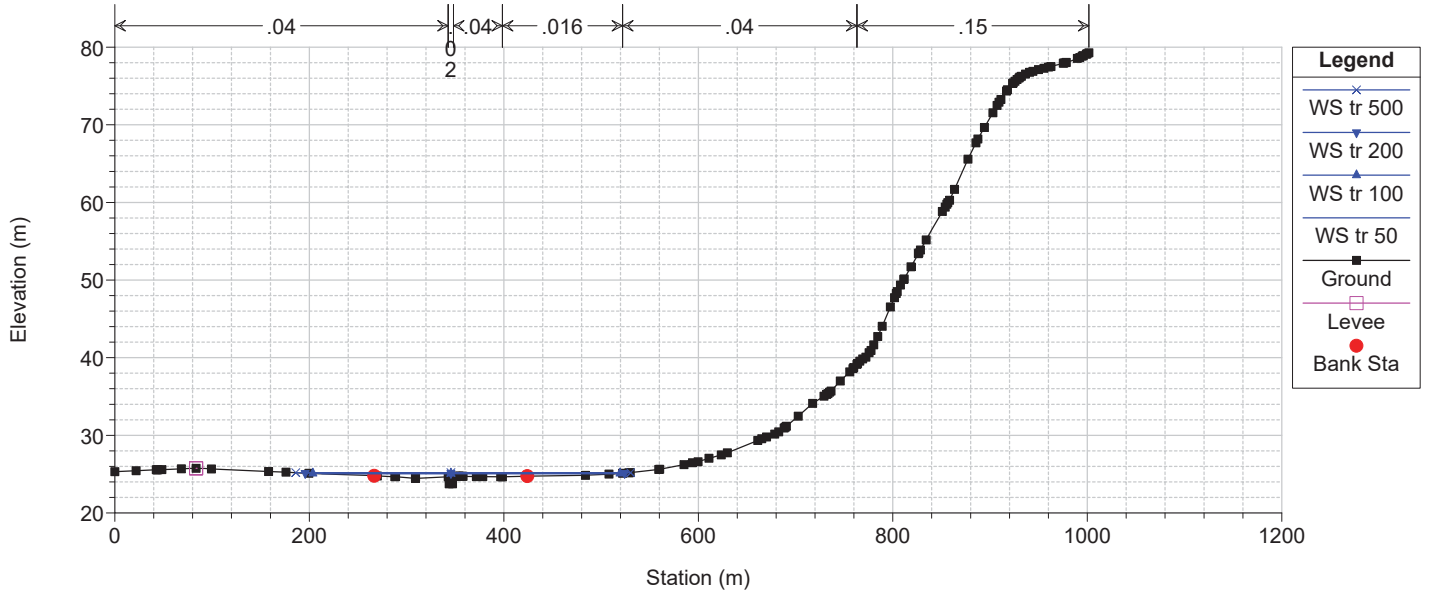
River = Canale urune Reach = Asta 1 RS = 6116.597 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

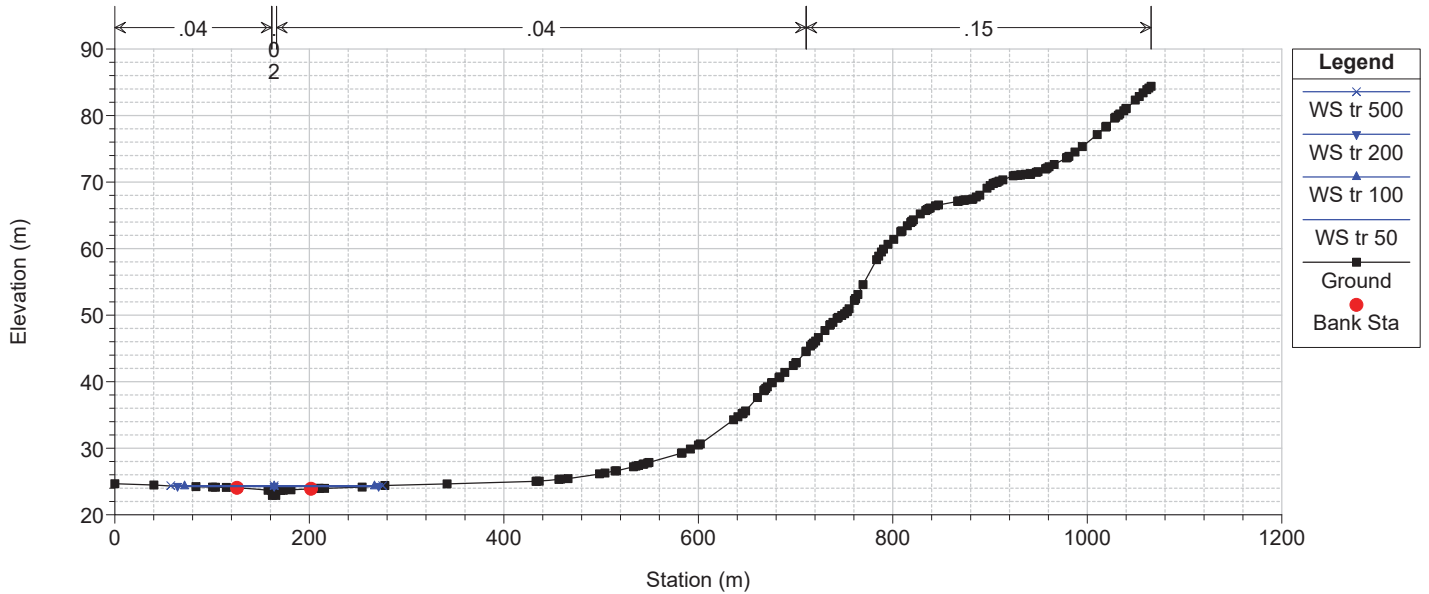
River = Canale urune Reach = Asta 1 RS = 5924.254 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

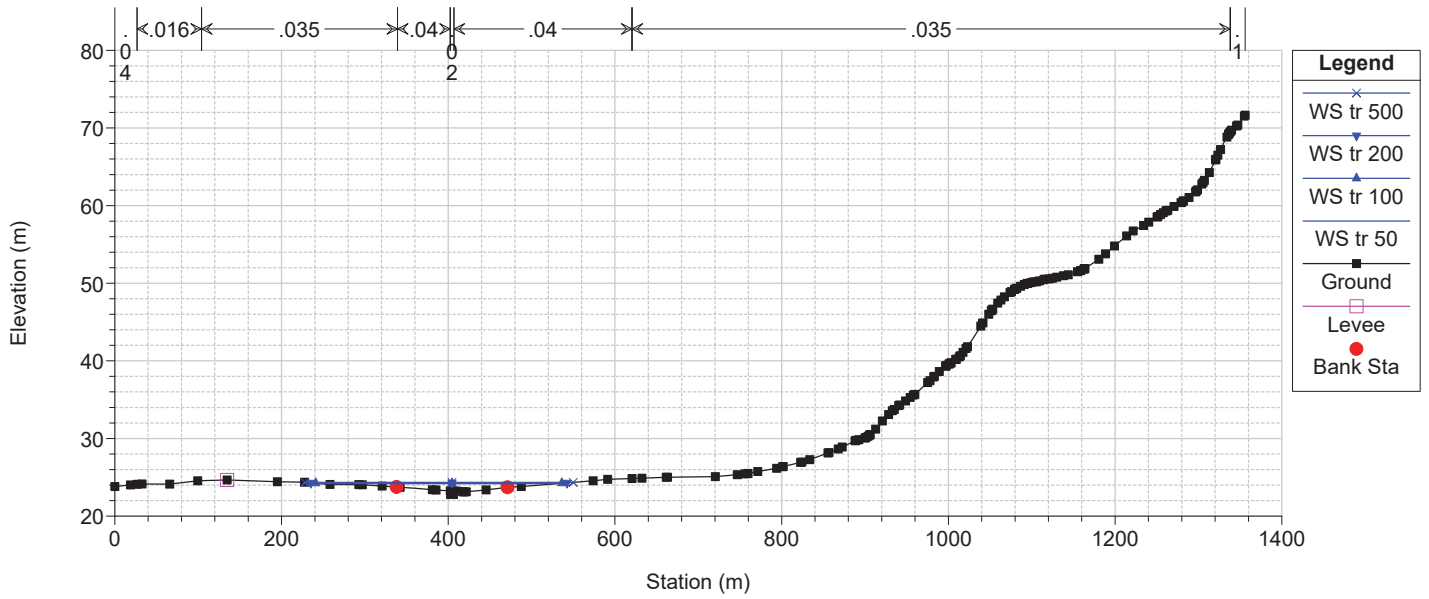
River = Canale urune Reach = Asta 1 RS = 5733.933 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

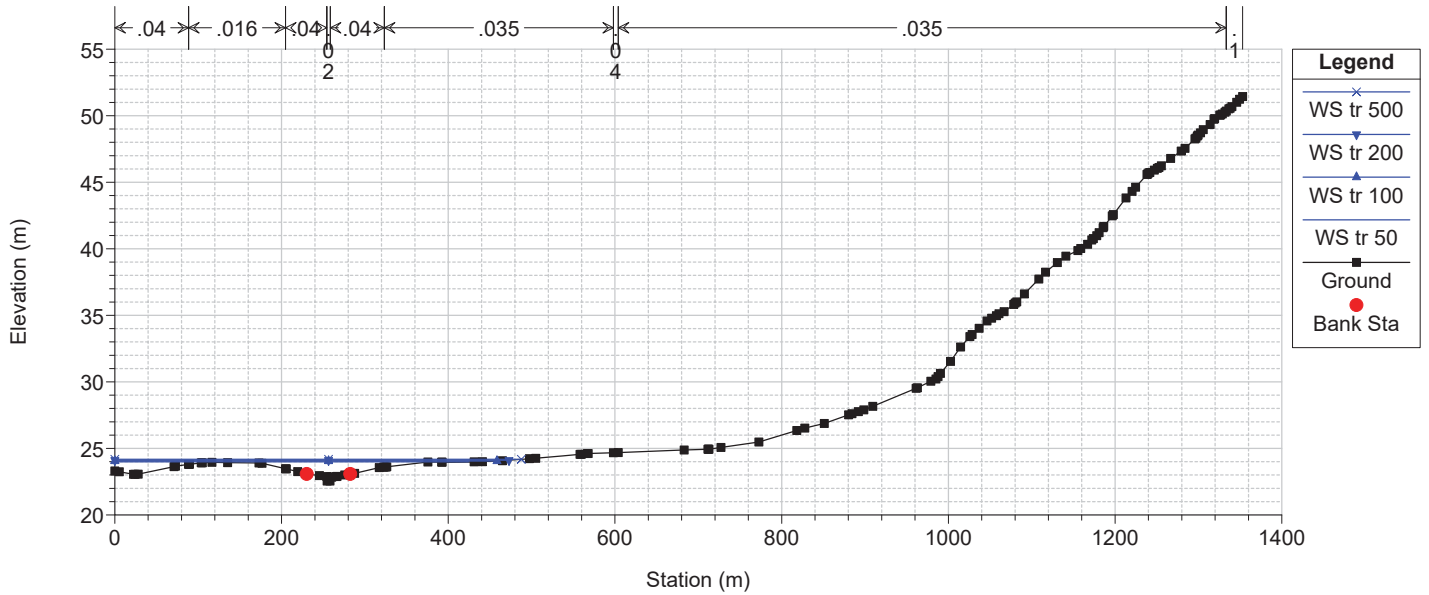
River = Canale urune Reach = Asta 2 RS = 5515.869 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

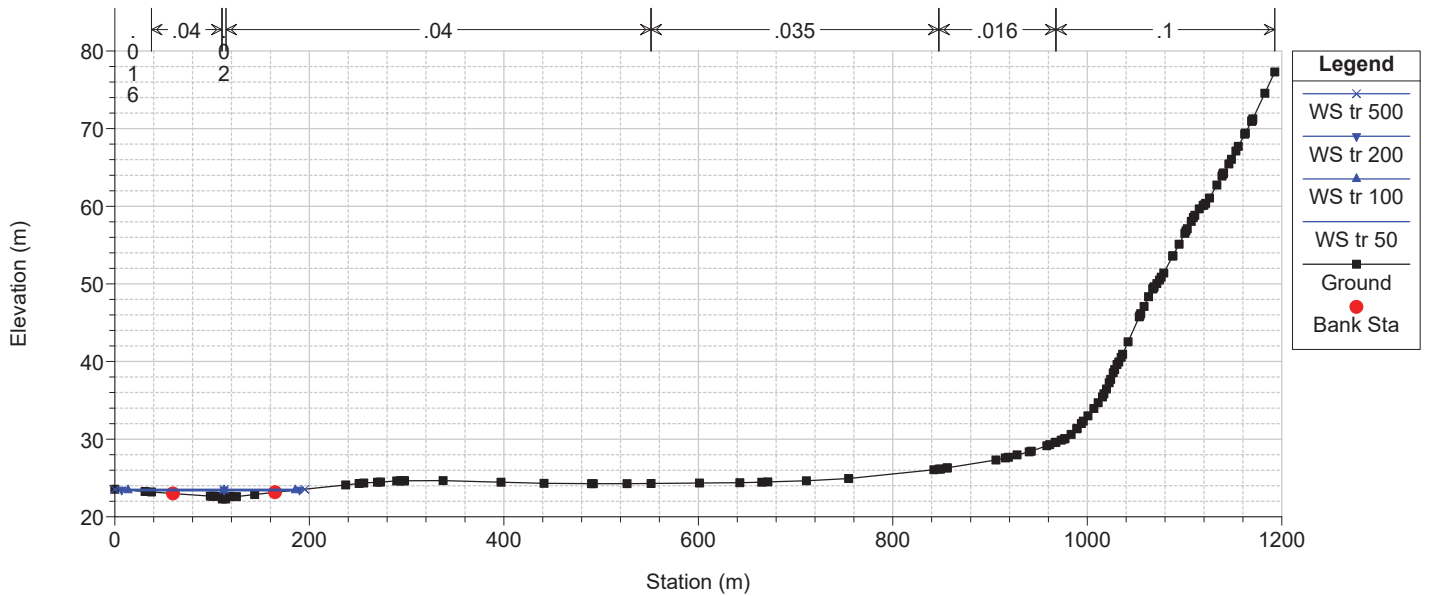
River = Canale urune Reach = Asta 2 RS = 5400.612 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

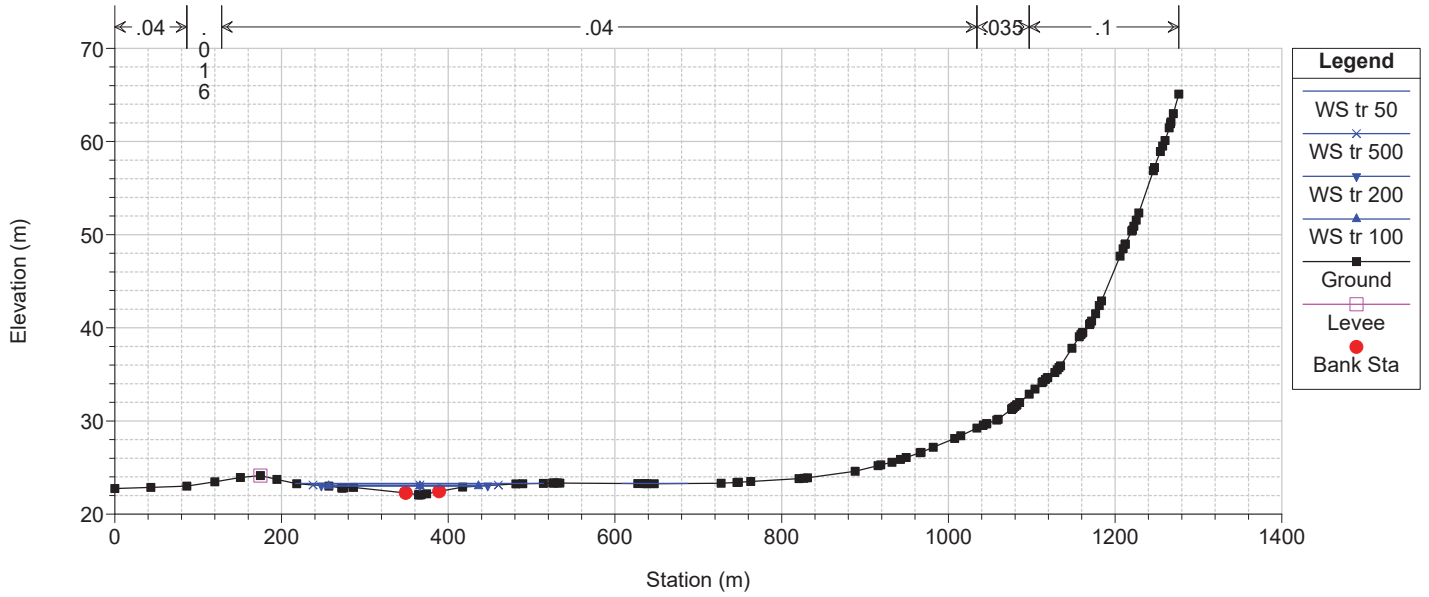
River = Canale urune Reach = Asta 2 RS = 5257.257 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

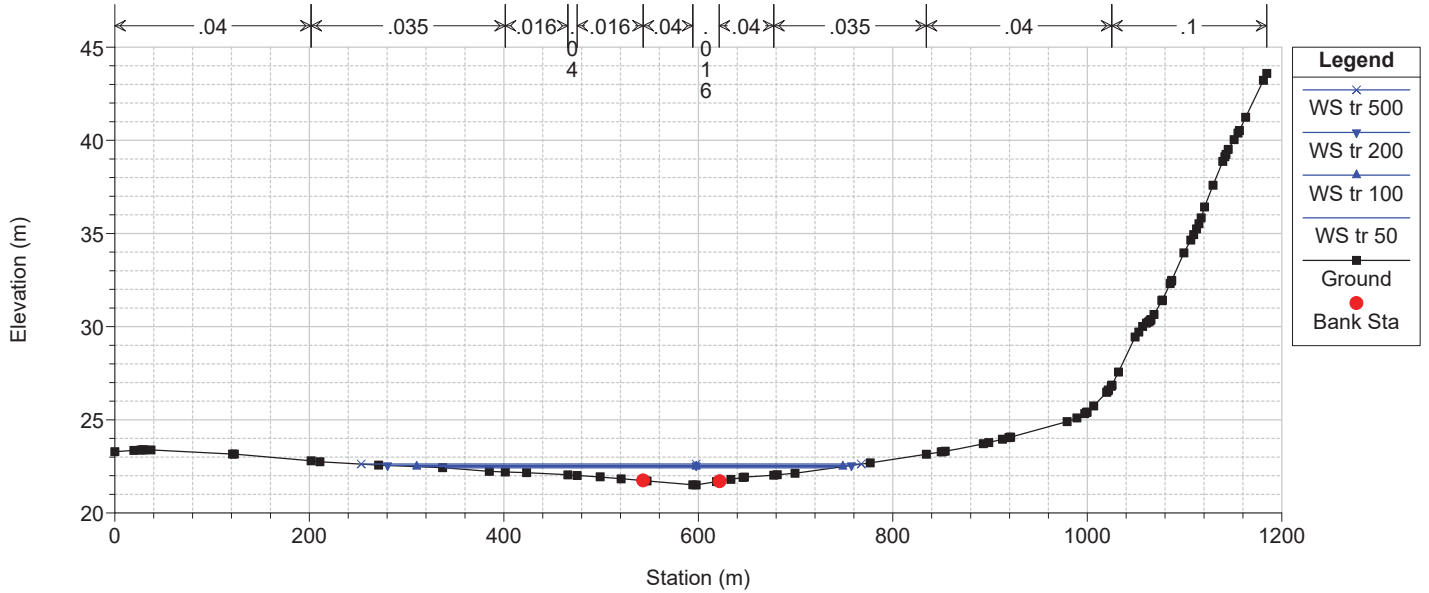
River = Canale urune Reach = Asta 3 RS = 5001.333 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

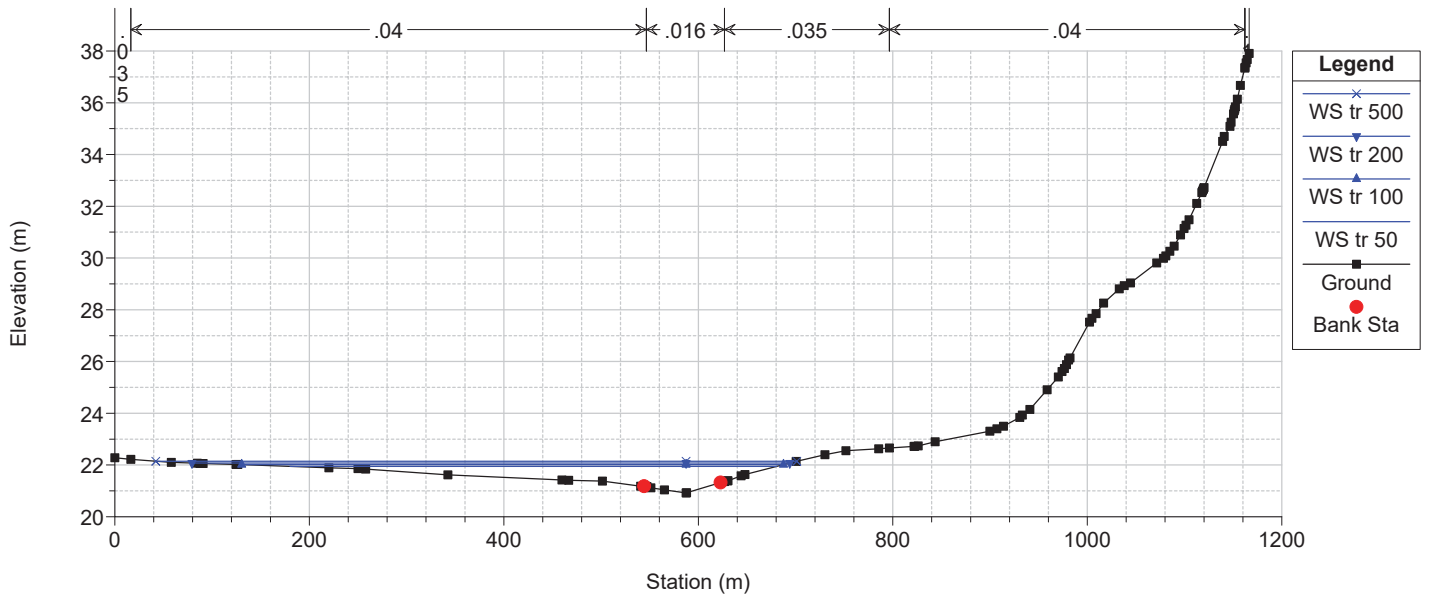
River = Canale urune Reach = Asta 3 RS = 4649.523 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

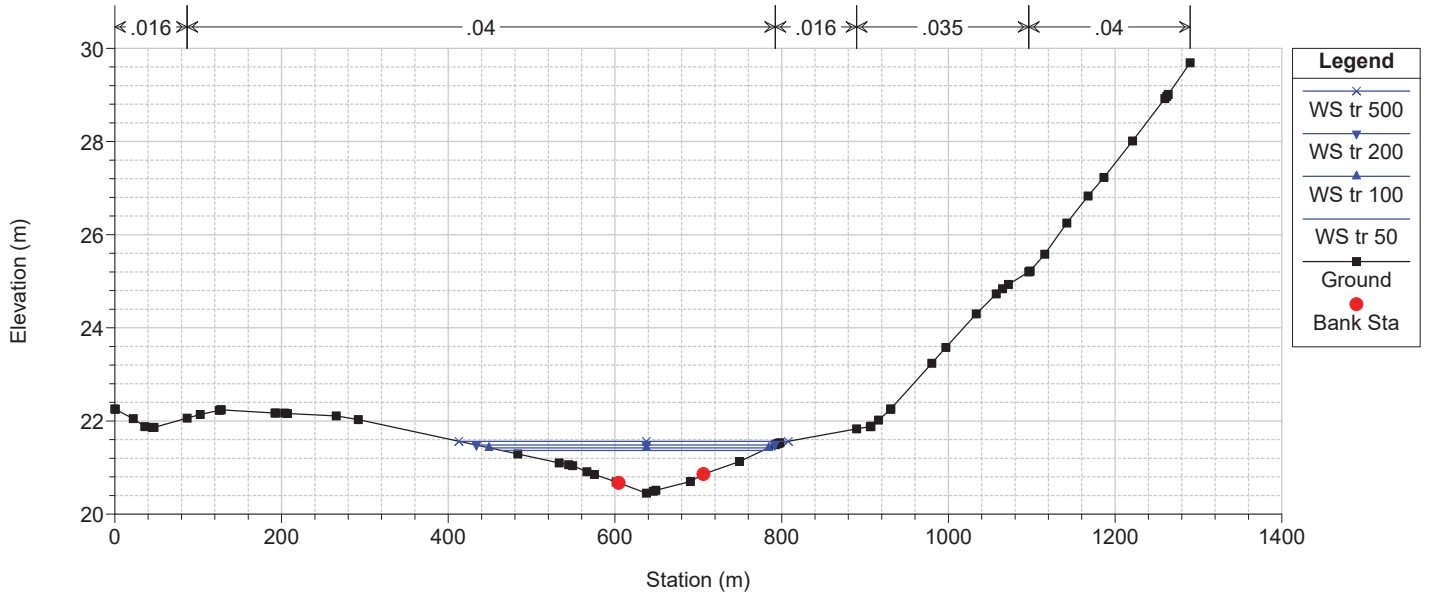
River = Canale urune Reach = Asta 3 RS = 4314.969 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

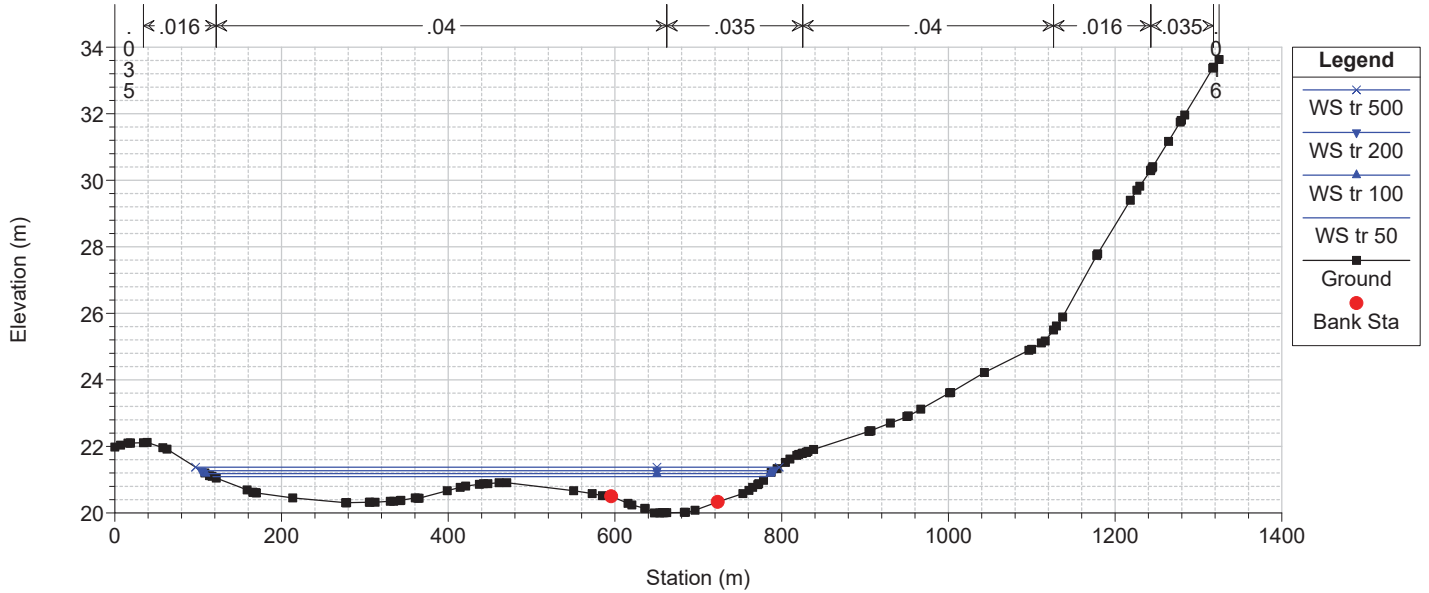
River = Canale urune Reach = Asta 3 RS = 4046.137 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

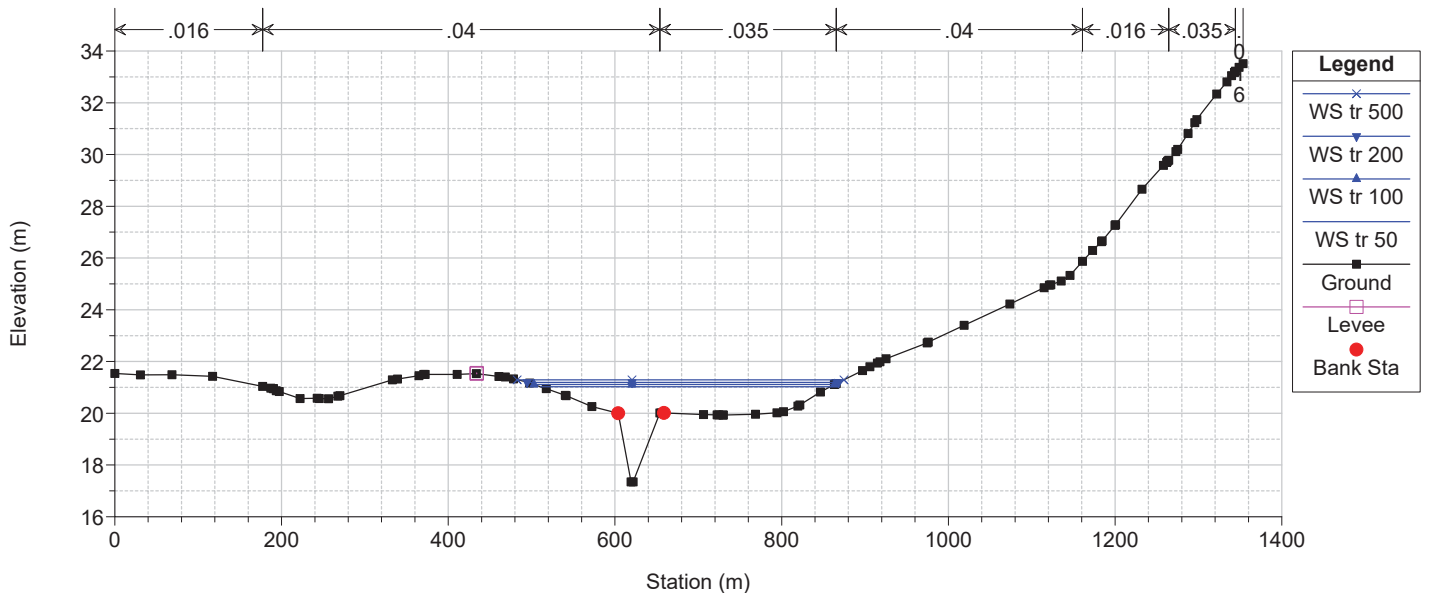
River = Canale urune Reach = Asta 3 RS = 3820.211 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

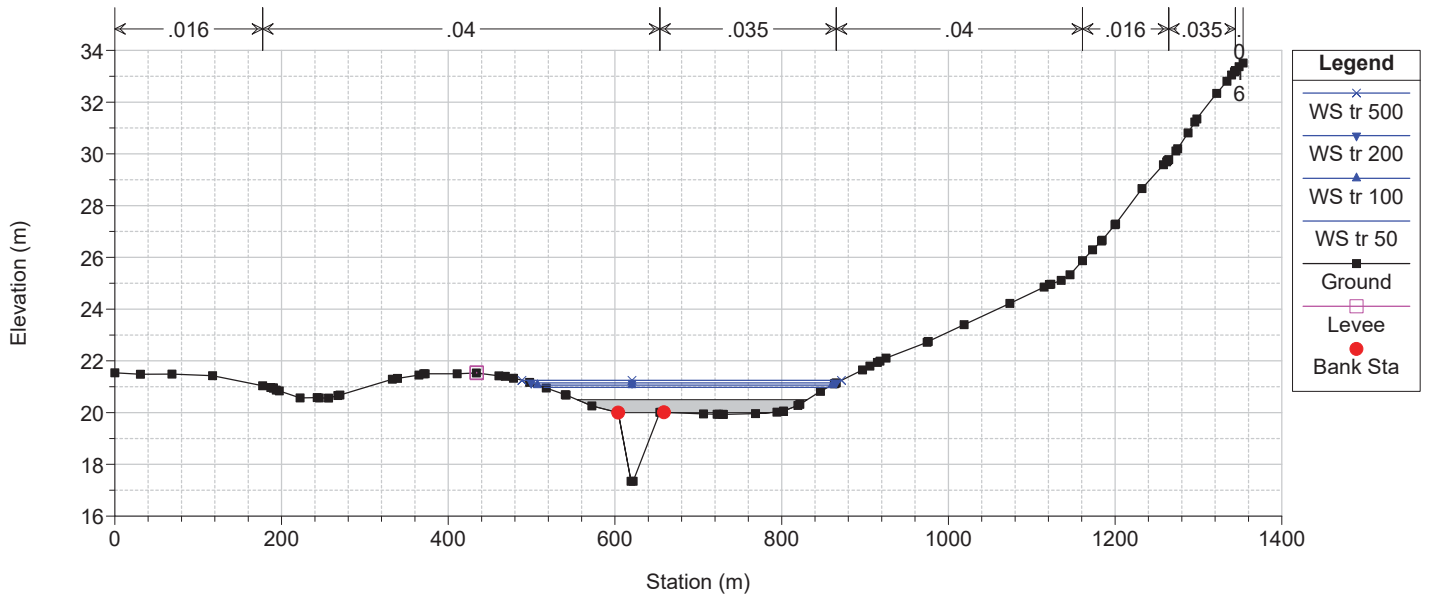
River = Canale urune Reach = Asta 3 RS = 3664.81 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

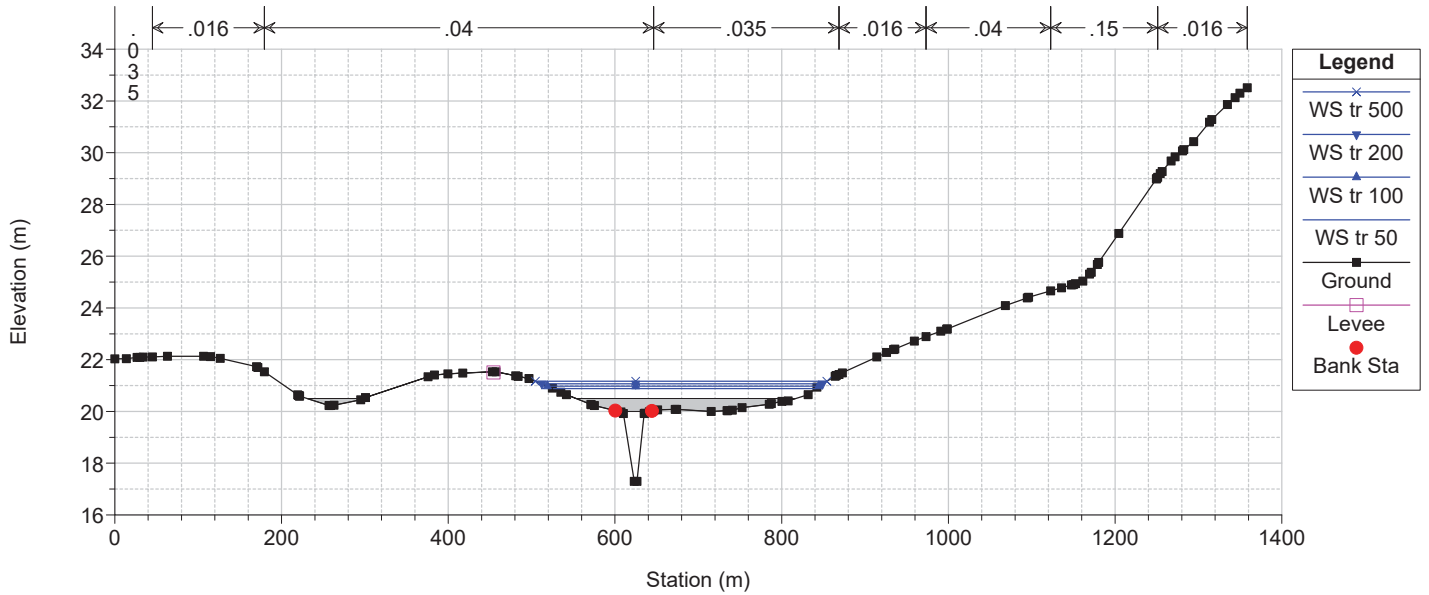
River = Canale urune Reach = Asta 3 RS = 3631.208 BR COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

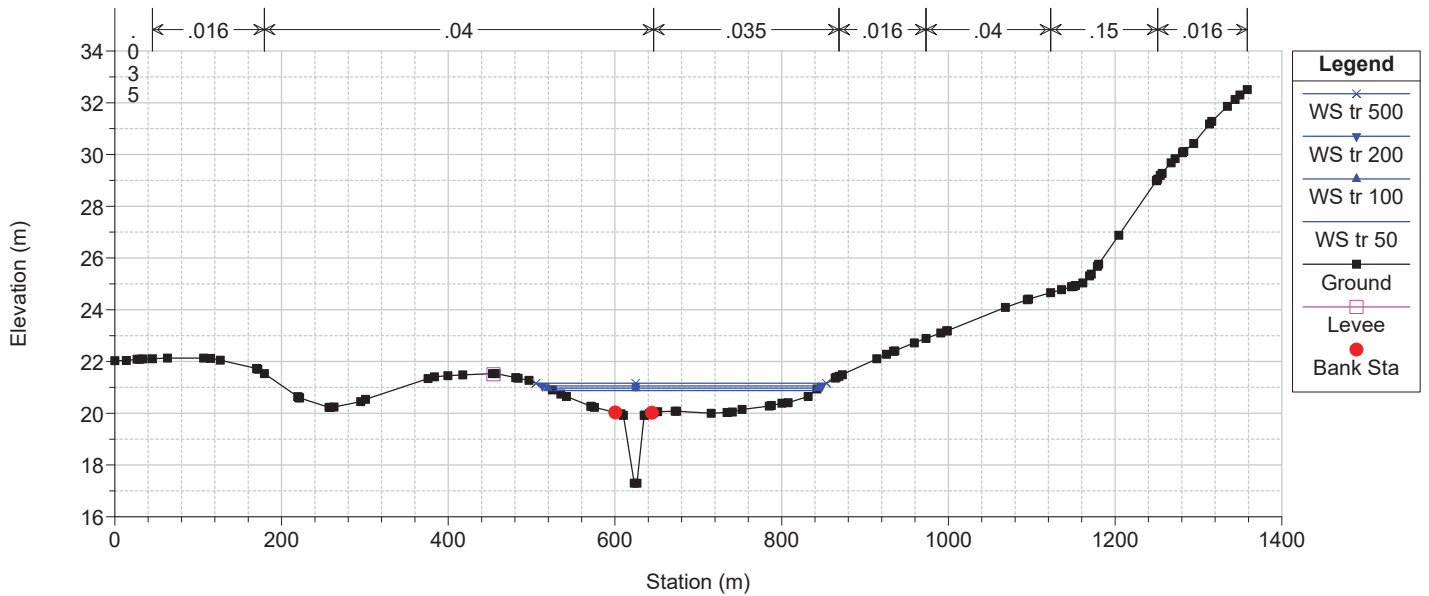
River = Canale urune Reach = Asta 3 RS = 3631.208 BR COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

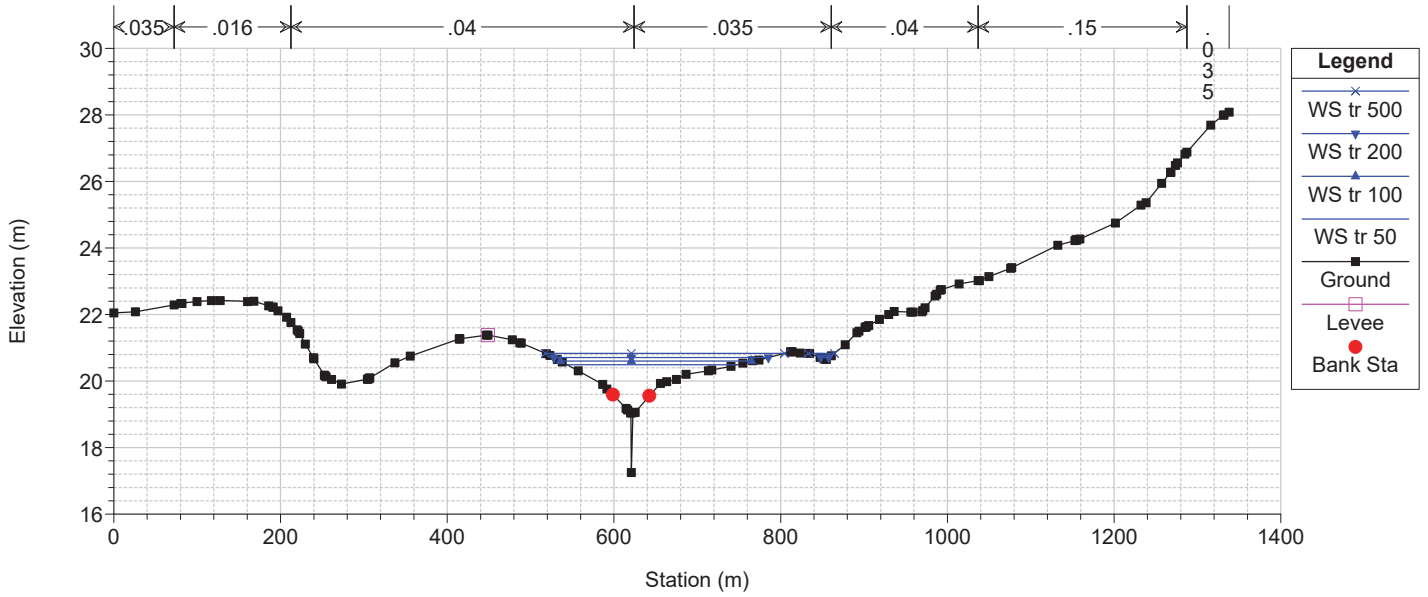
River = Canale urune Reach = Asta 3 RS = 3604.846 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

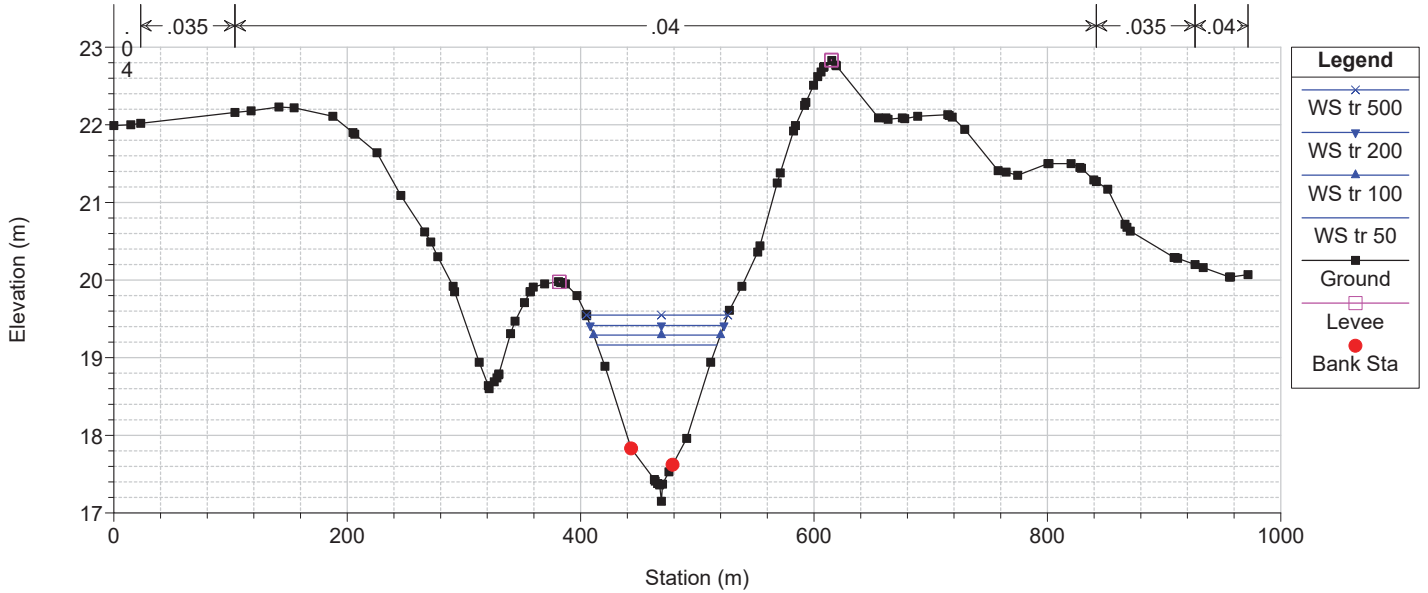
River = Canale urune Reach = Asta 3 RS = 3495.654 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

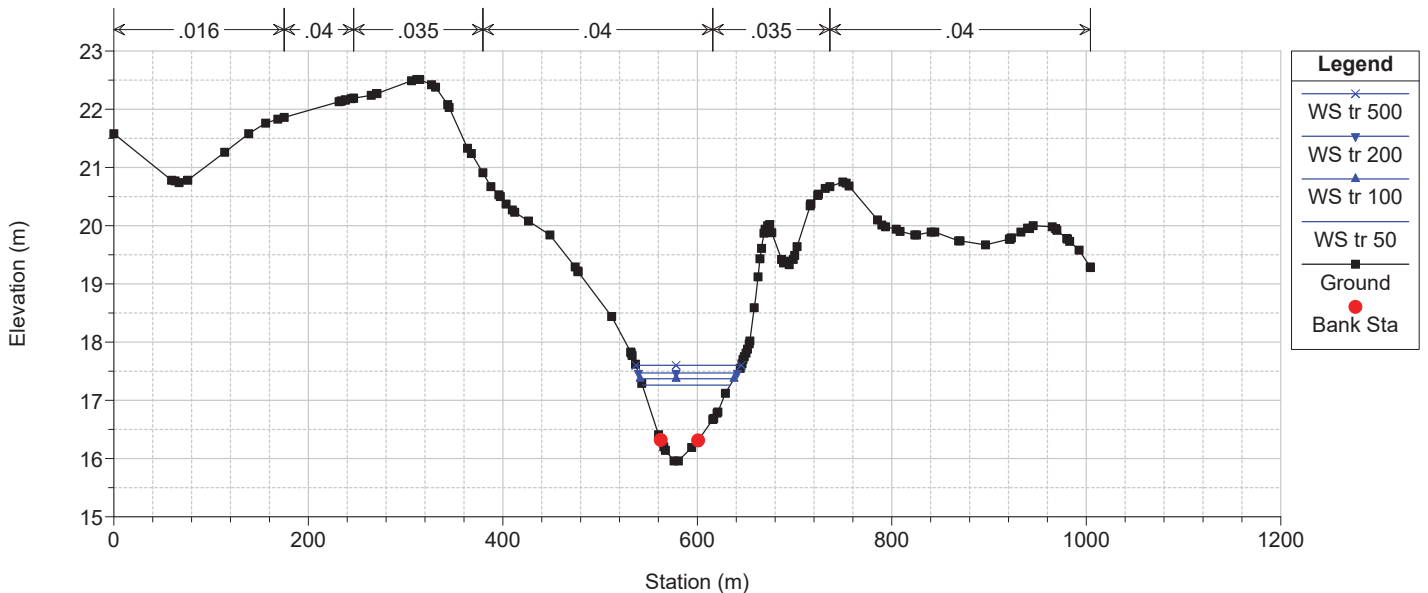
River = Canale urune Reach = Asta 3 RS = 3201.895 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

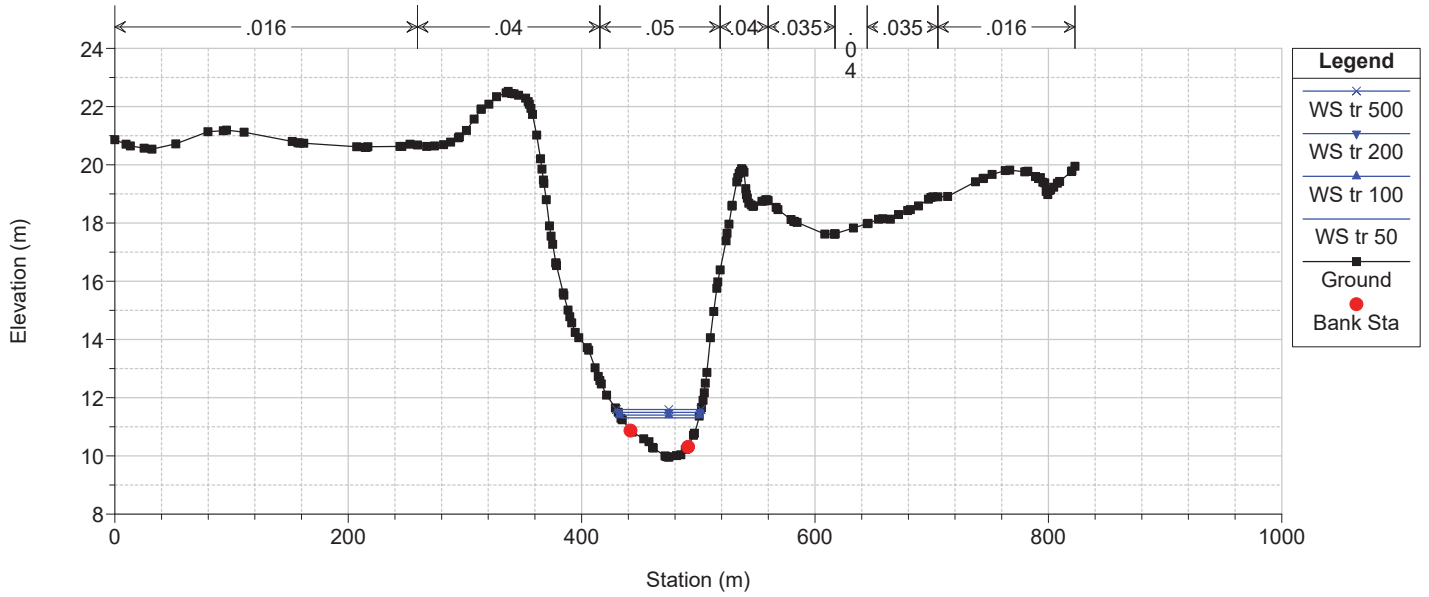
River = Canale urune Reach = Asta 3 RS = 2930.944 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

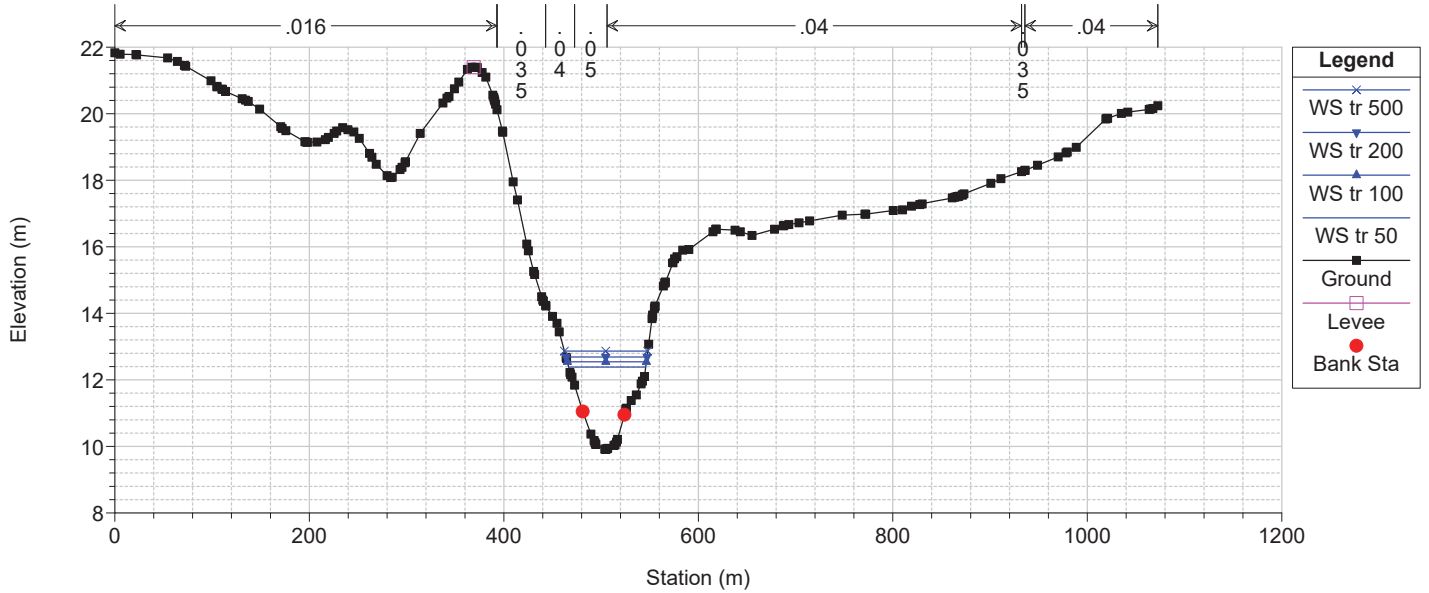
River = Canale urune Reach = Asta 3 RS = 2607.301 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

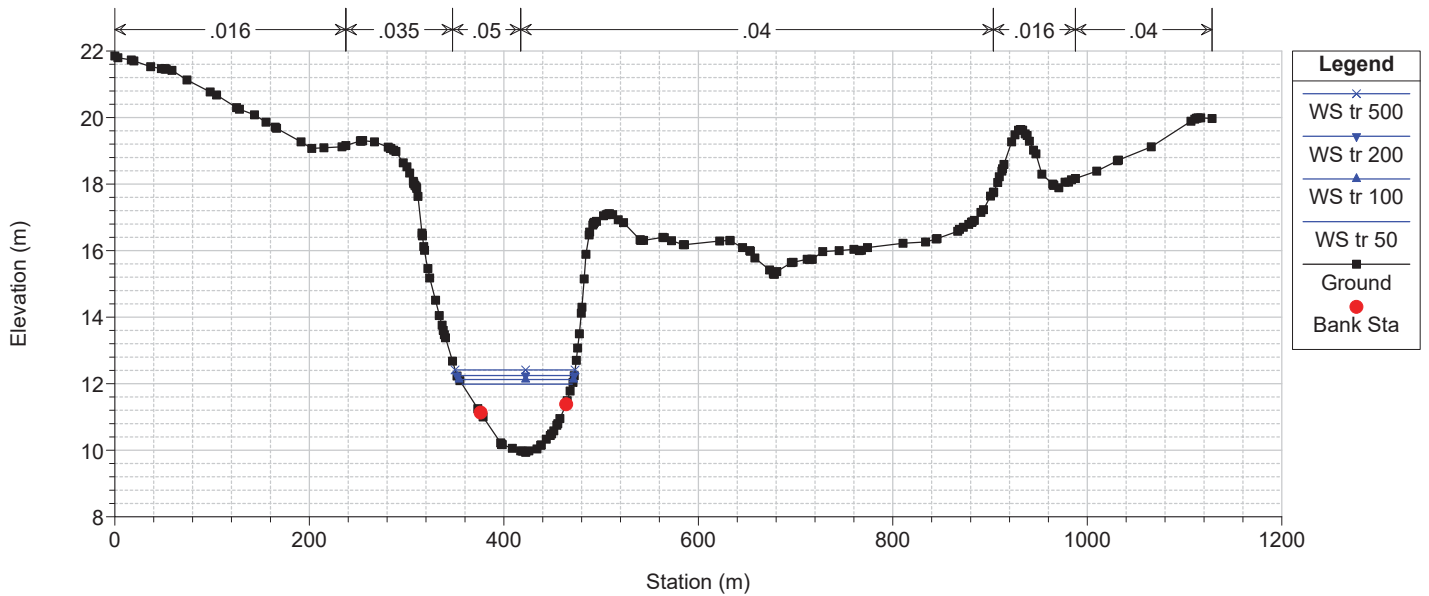
River = Canale urune Reach = Asta 4 RS = 2297.713 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

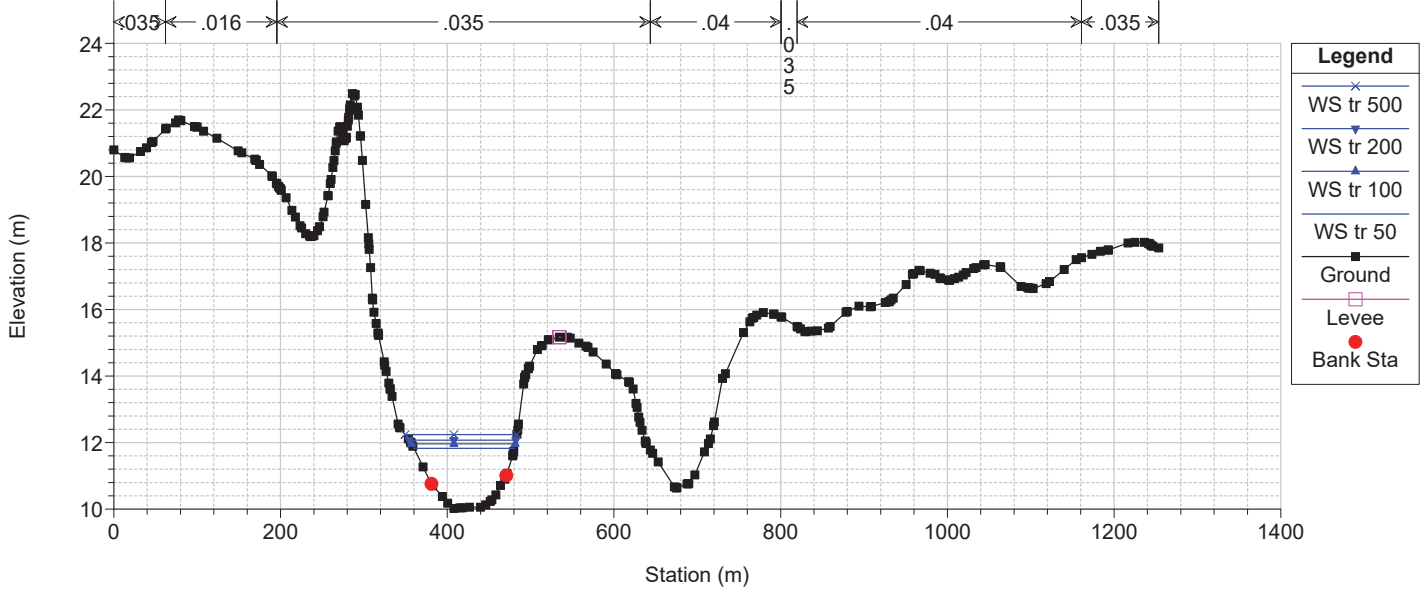
River = Canale urune Reach = Asta 4 RS = 2085.895 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

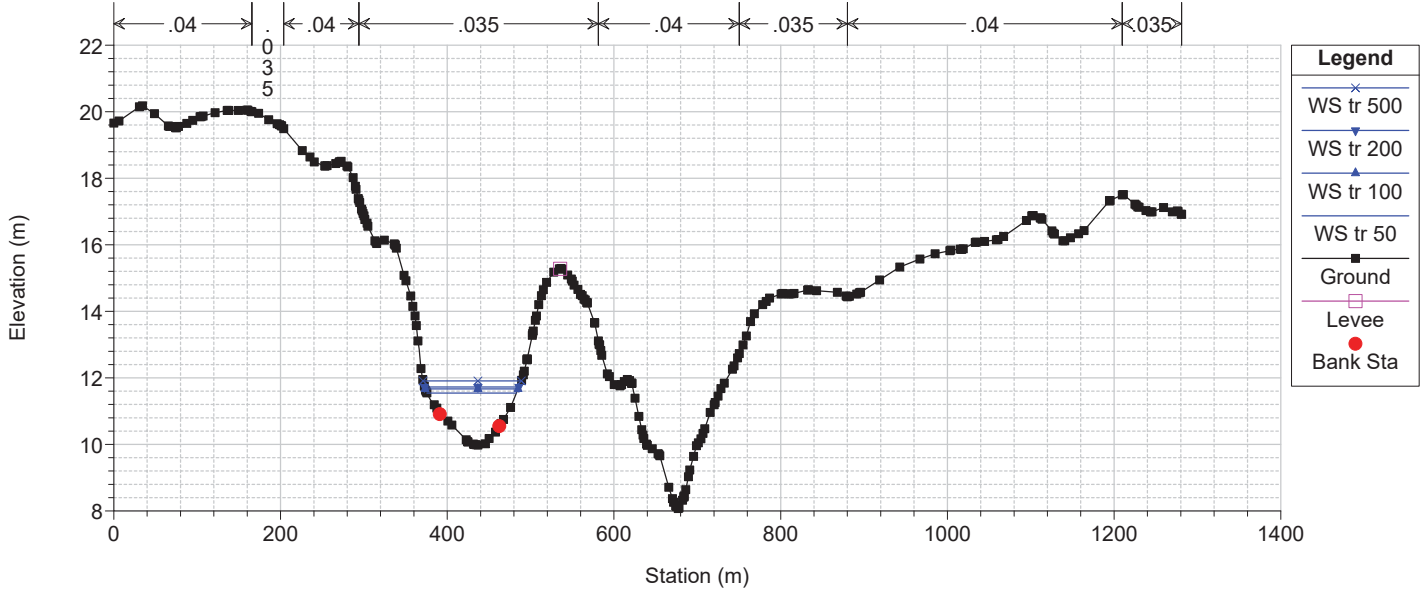
River = Canale urune Reach = Asta 4 RS = 1976.163 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

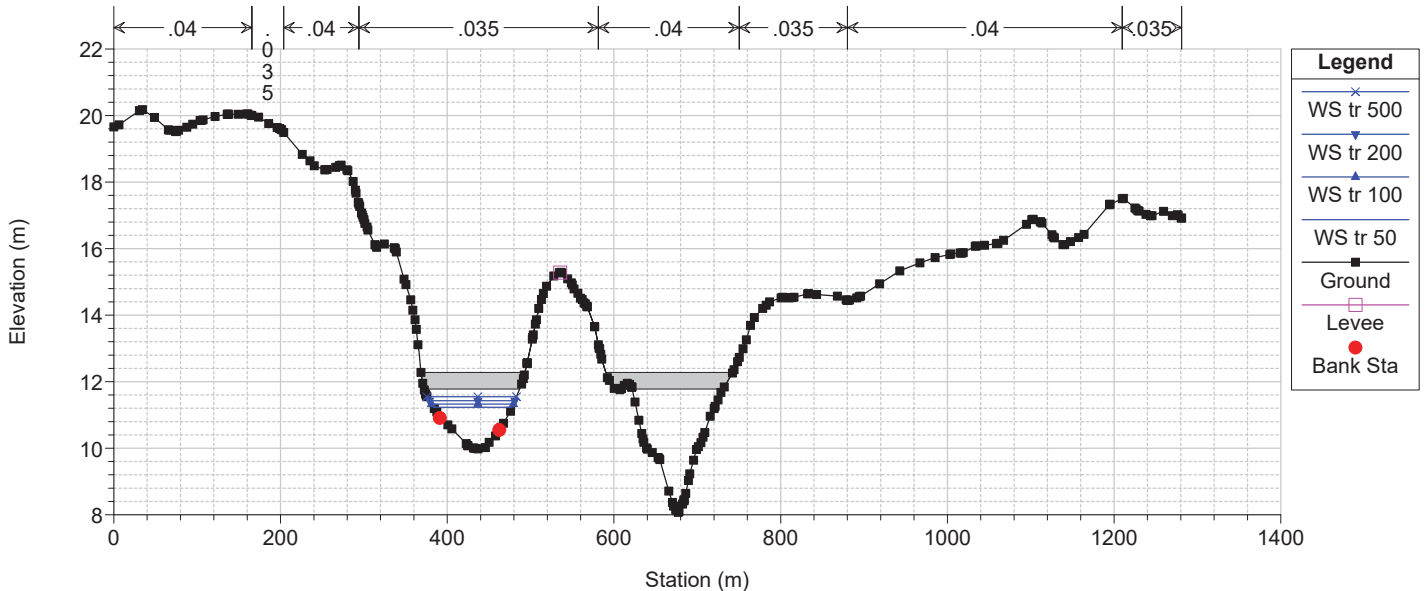
River = Canale urune Reach = Asta 4 RS = 1891.287 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

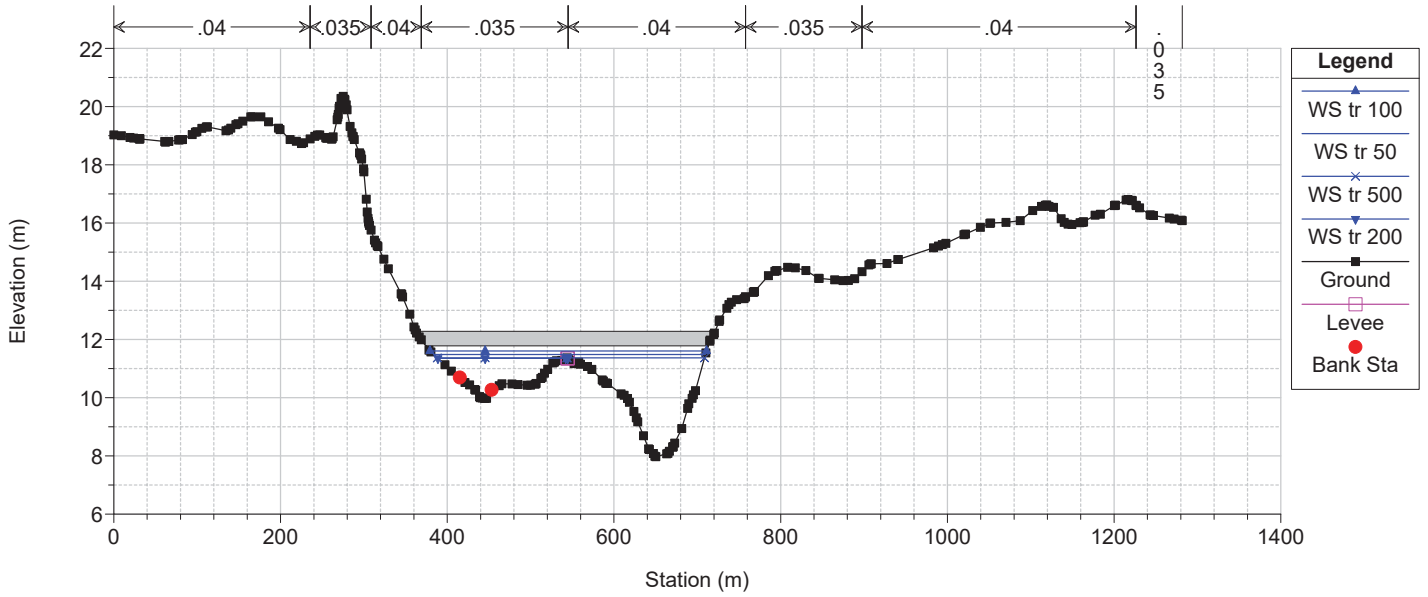
River = Canale urune Reach = Asta 4 RS = 1868.035 BR COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

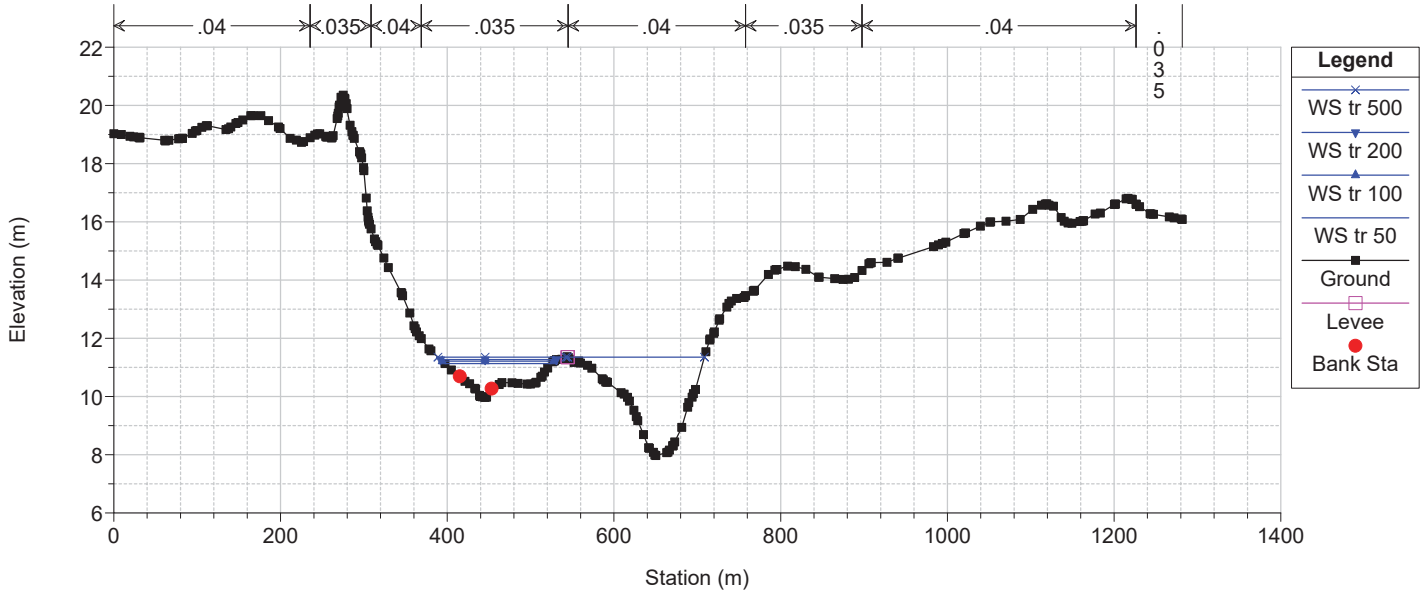
River = Canale urune Reach = Asta 4 RS = 1868.035 BR COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

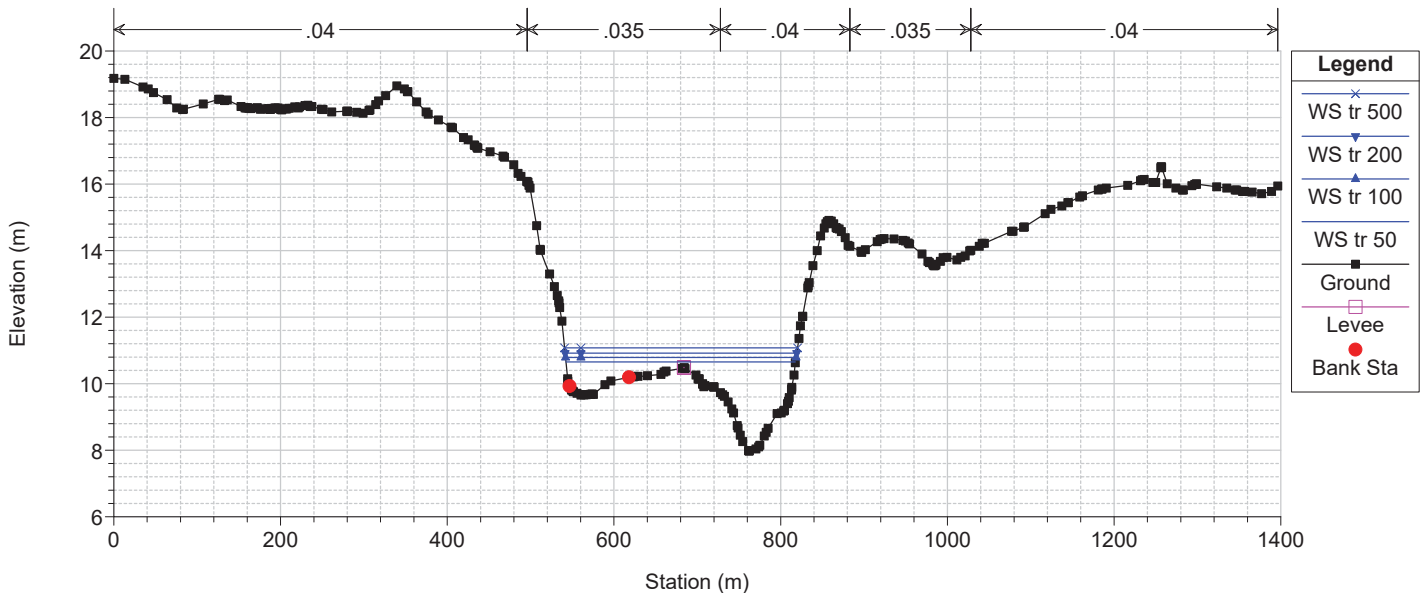
River = Canale urune Reach = Asta 4 RS = 1840.312 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

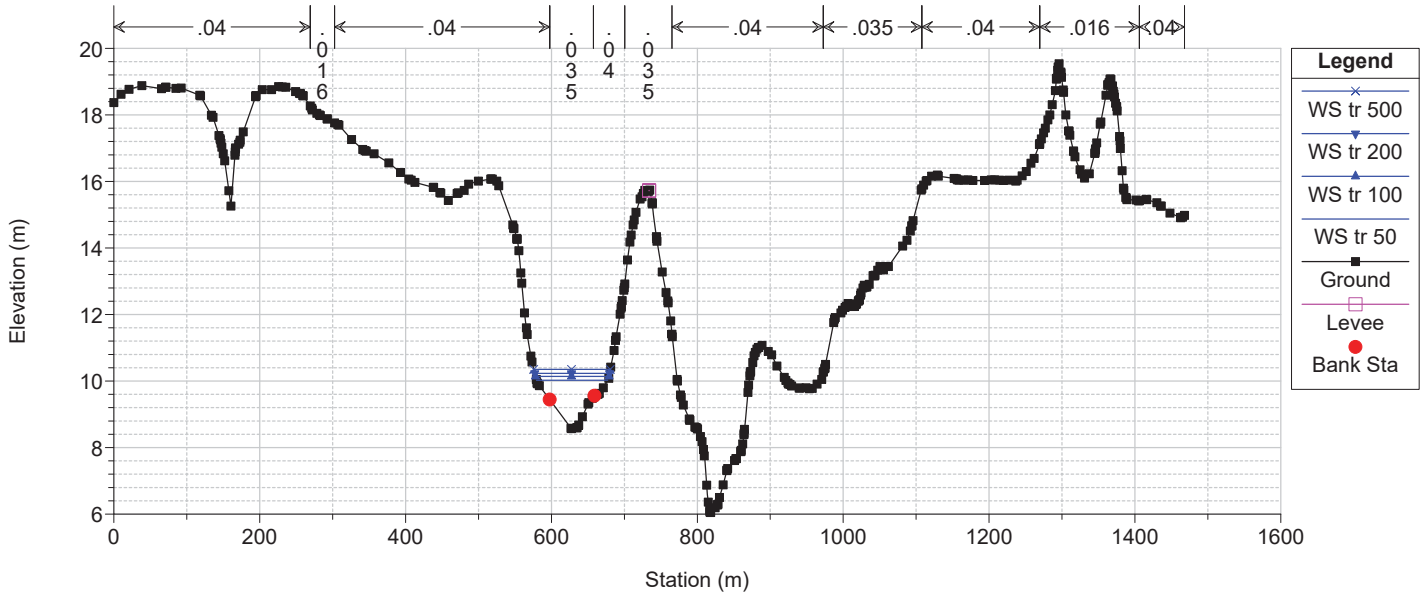
River = Canale urune Reach = Asta 4 RS = 1783.702 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

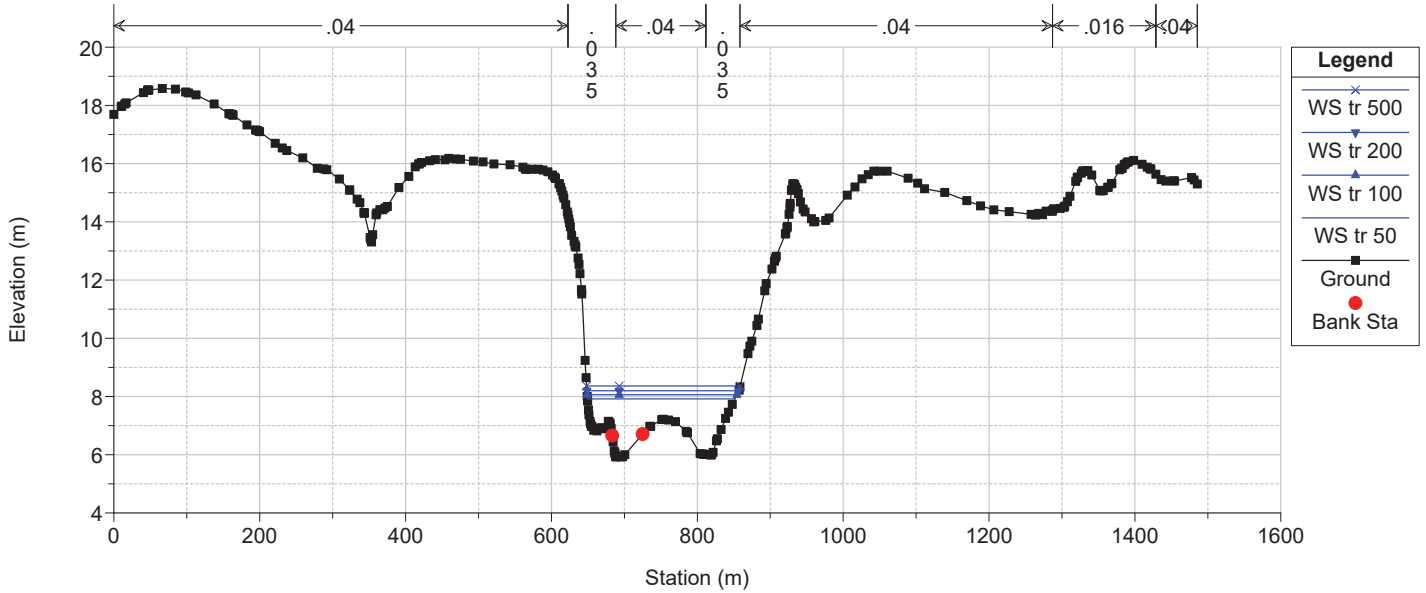
River = Canale urune Reach = Asta 4 RS = 1638.9 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

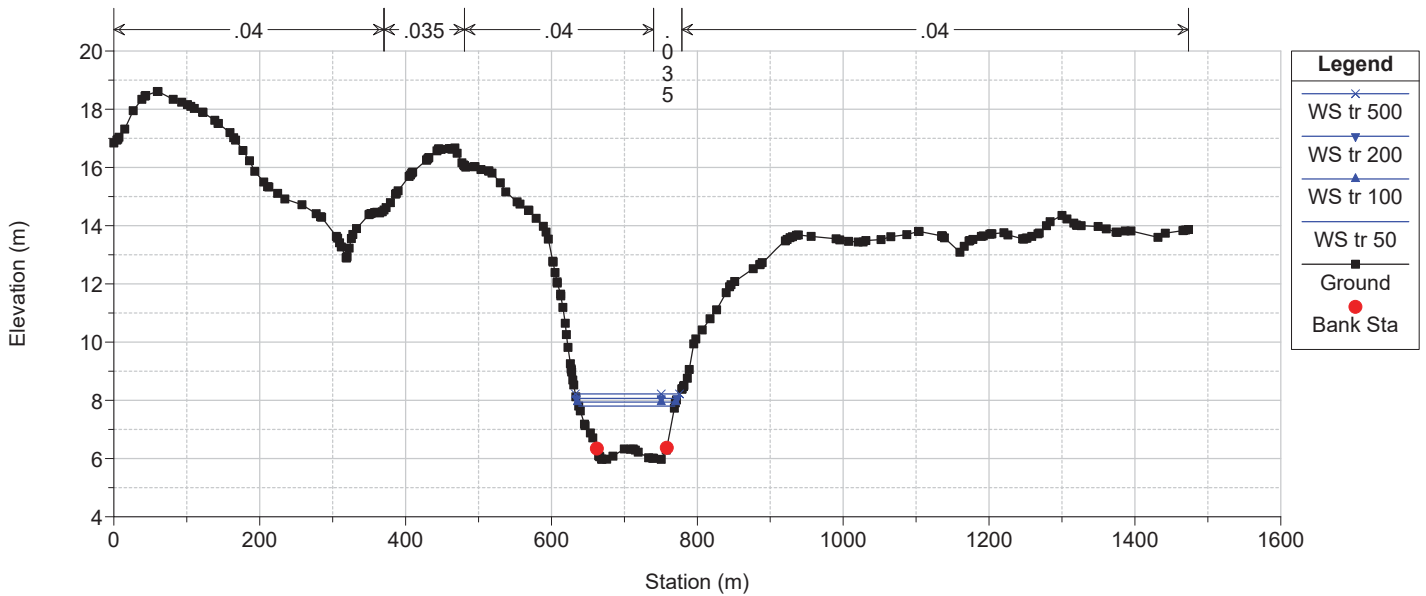
River = Canale urune Reach = Asta 4 RS = 1471.713 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

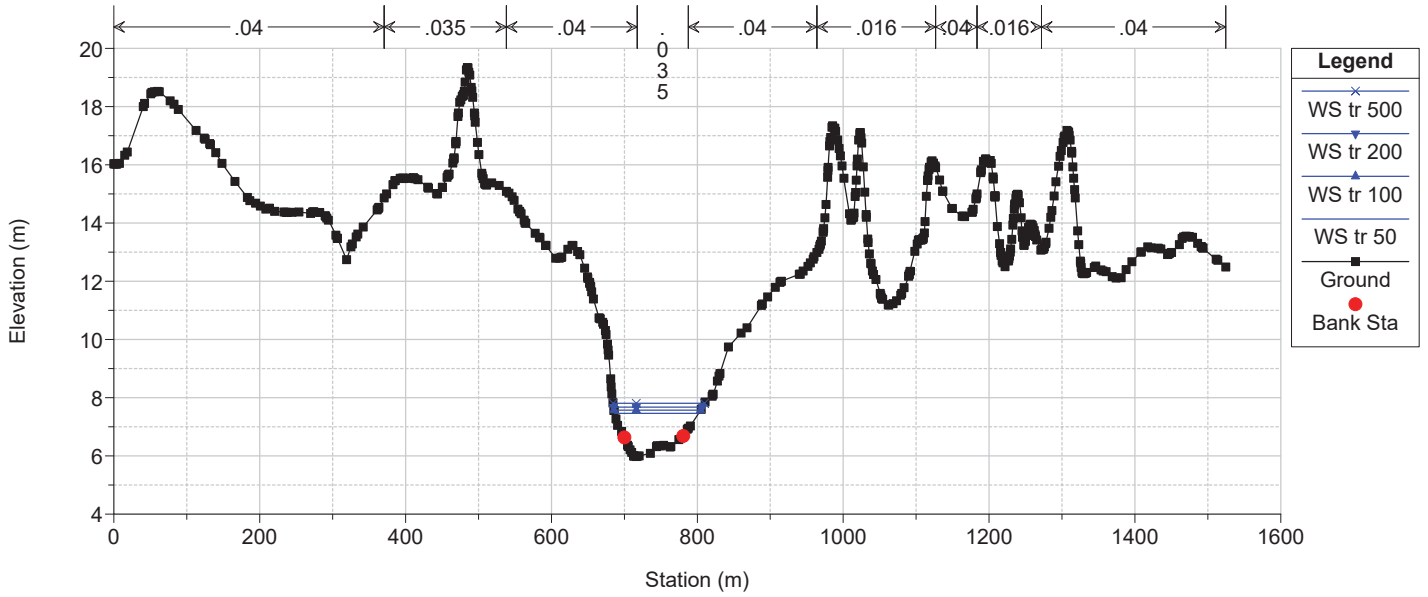
River = Canale urune Reach = Asta 4 RS = 1362.907 COMUNE DI ALGERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

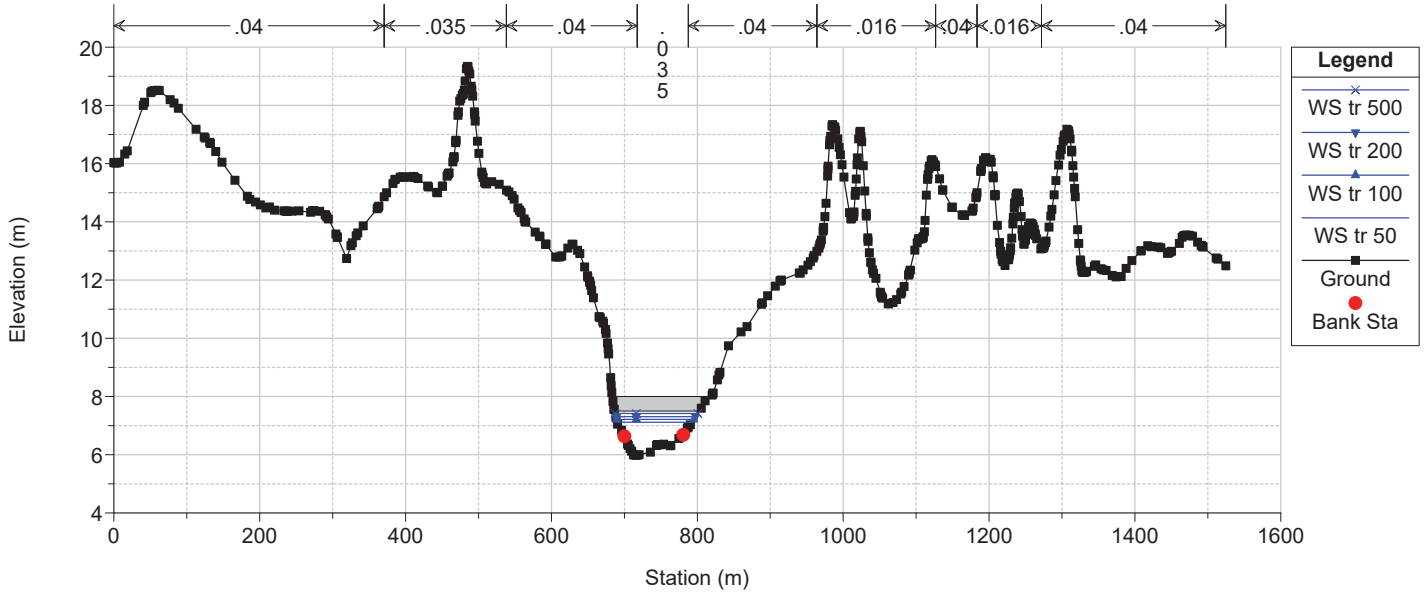
River = Canale urune Reach = Asta 4 RS = 1224.929 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

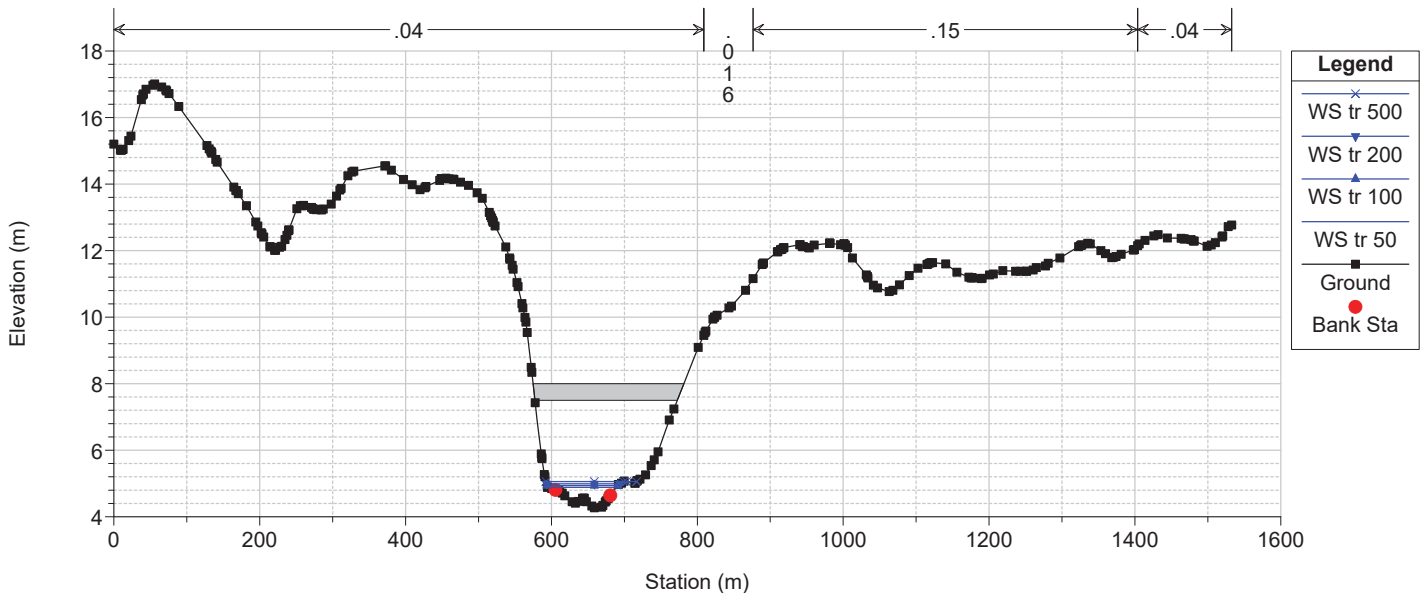
River = Canale urune Reach = Asta 4 RS = 1195.39 BR COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

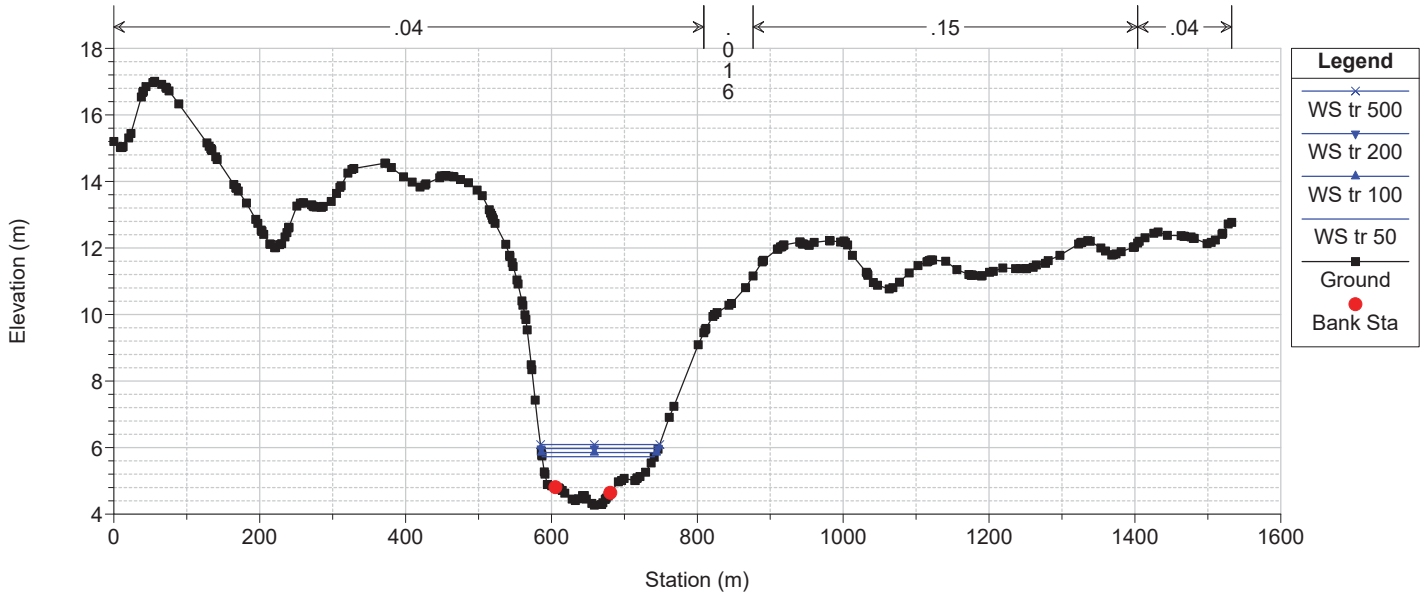
River = Canale urune Reach = Asta 4 RS = 1195.39 BR COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

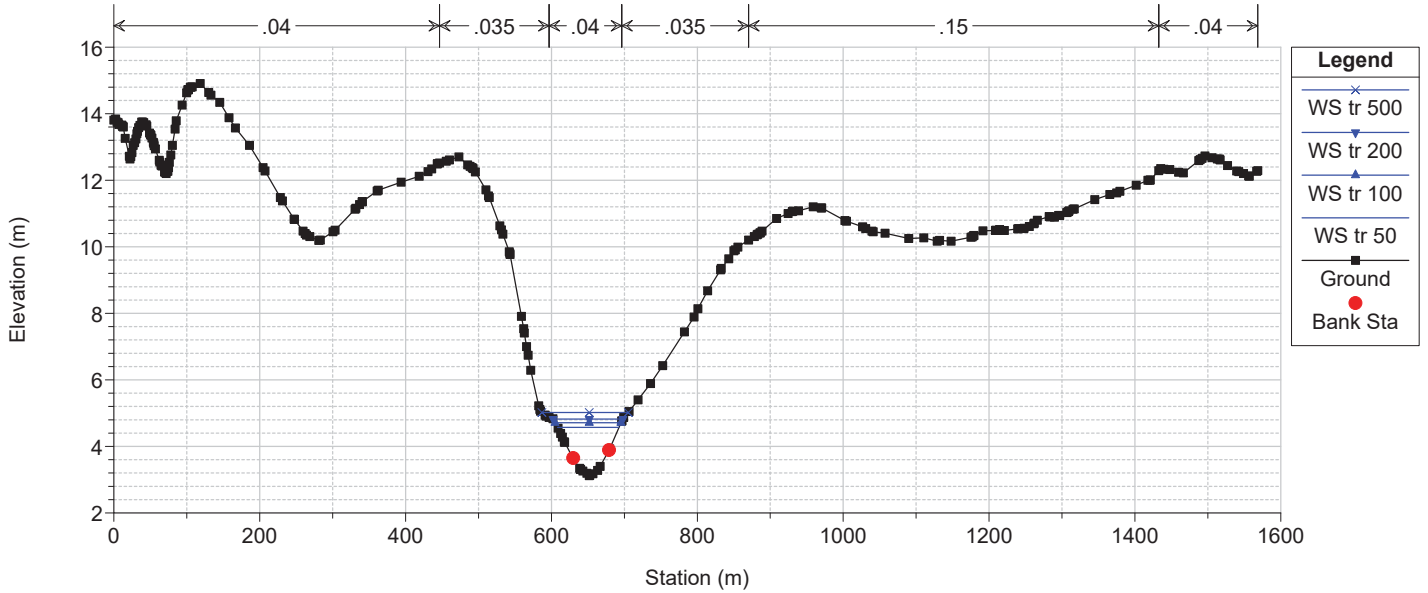
River = Canale urune Reach = Asta 4 RS = 1165.953 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

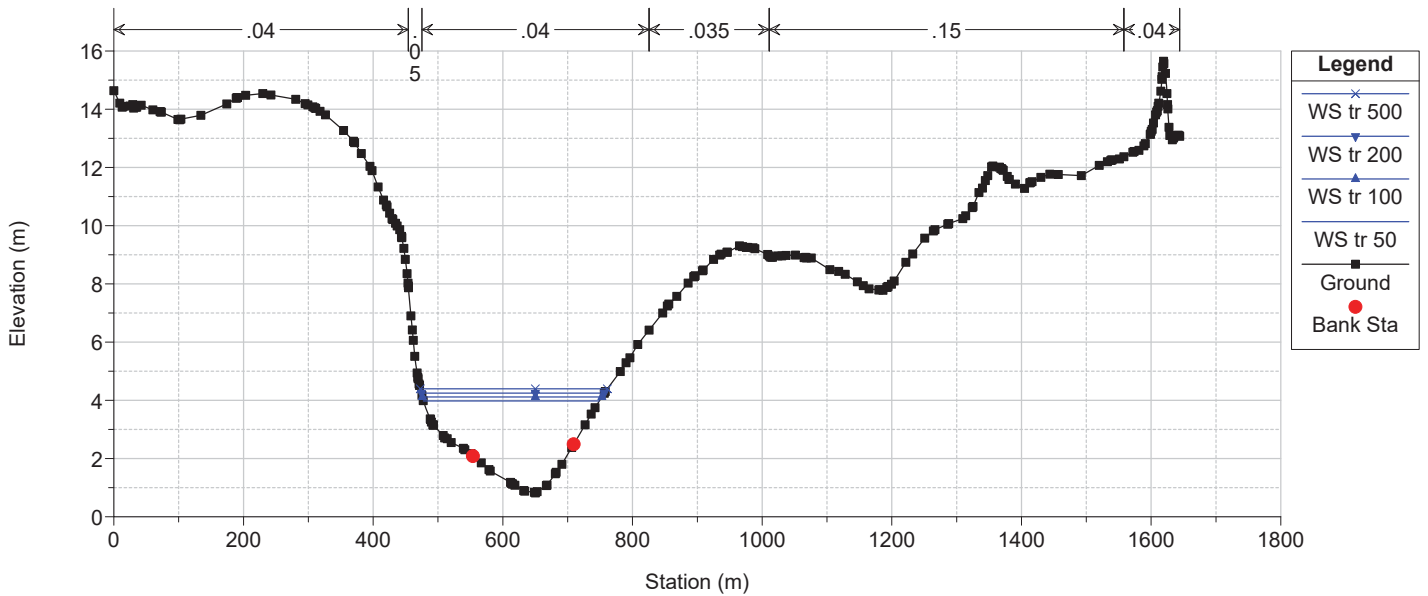
River = Canale urune Reach = Asta 4 RS = 1025.208 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

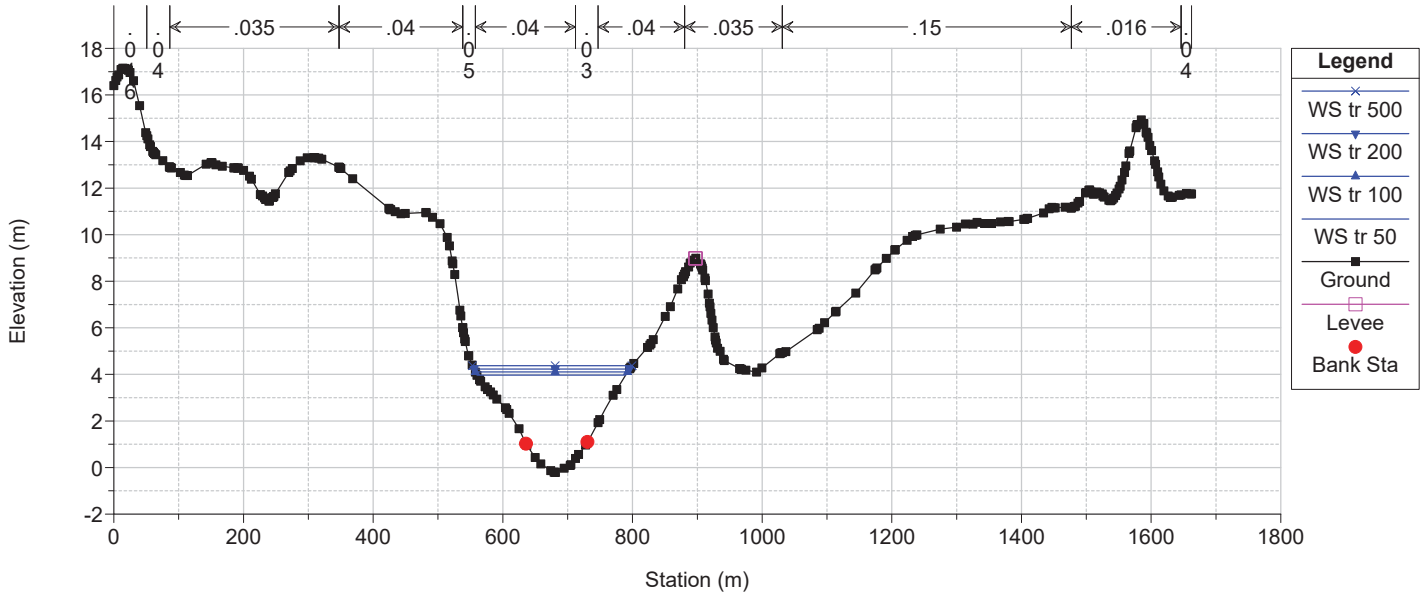
River = Canale urune Reach = Asta 4 RS = 777.8127 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

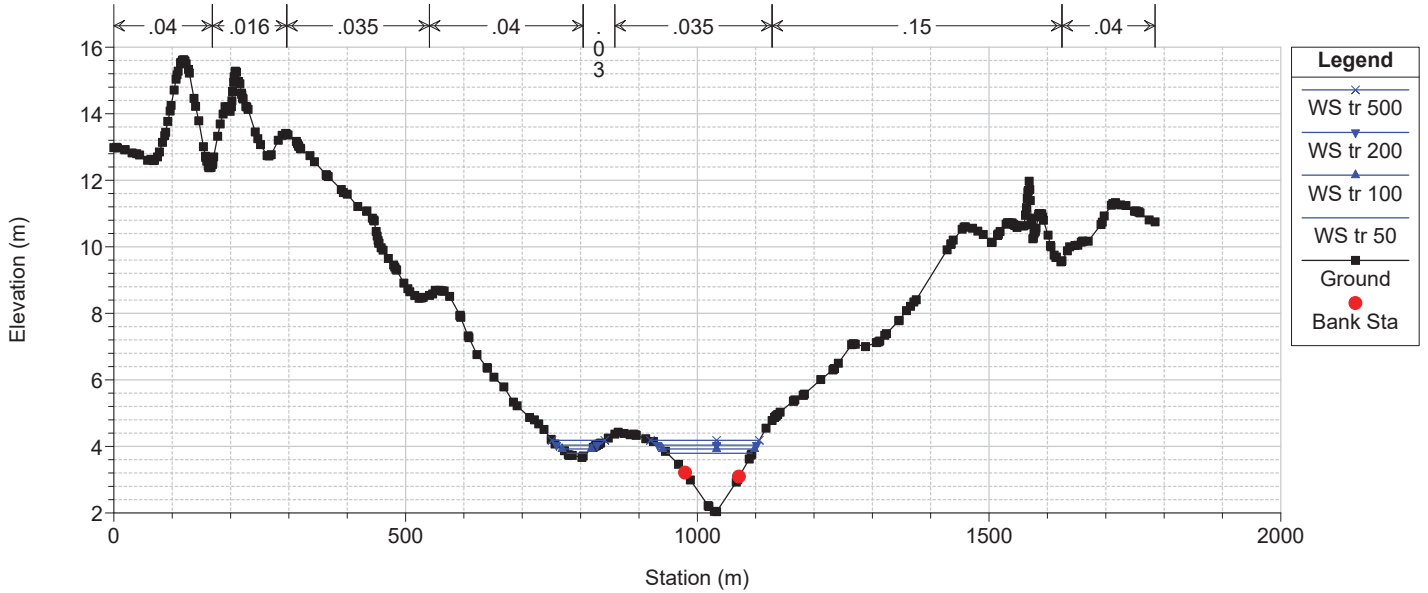
River = Canale urune Reach = Asta 4 RS = 615.8967 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

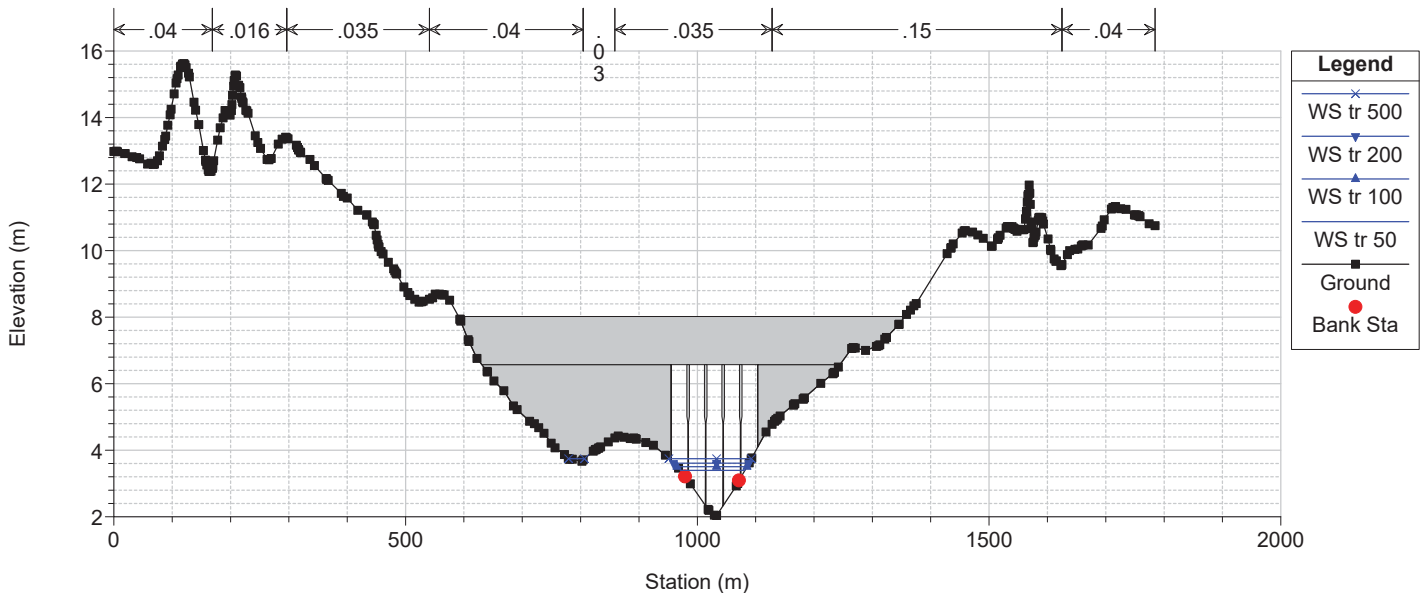
River = Canale urune Reach = Asta 4 RS = 469.6844 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

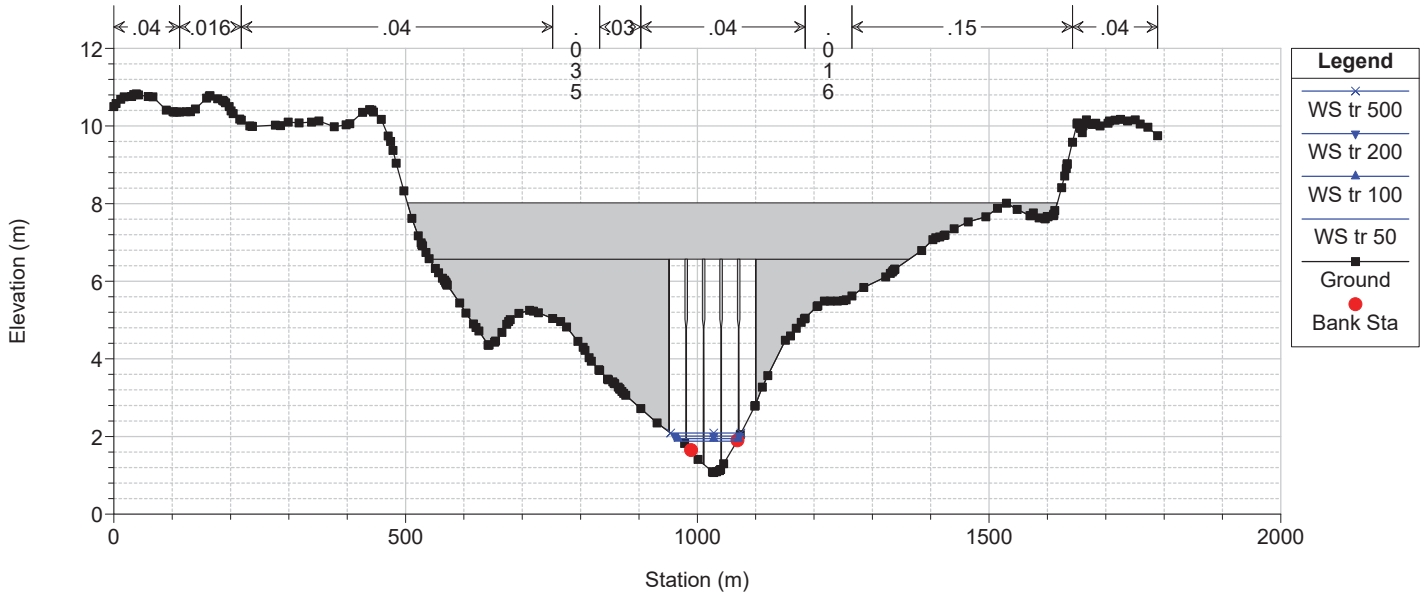
River = Canale urune Reach = Asta 4 RS = 430.4479 BR COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

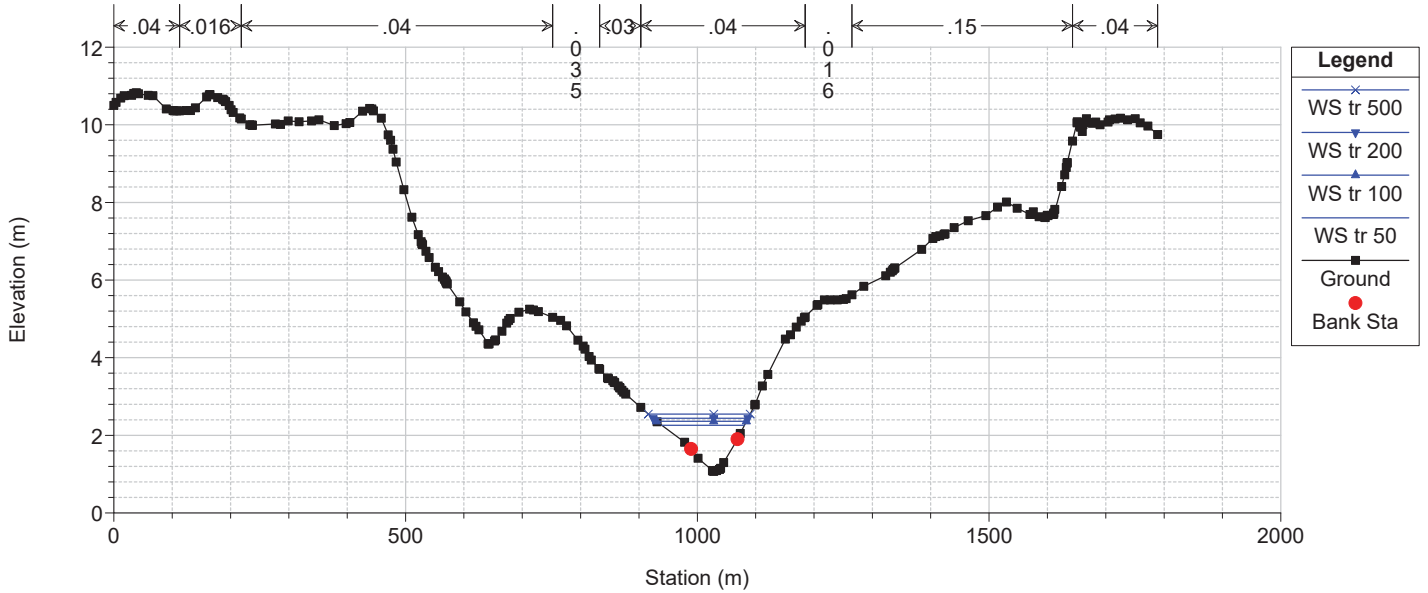
River = Canale urune Reach = Asta 4 RS = 430.4479 BR COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

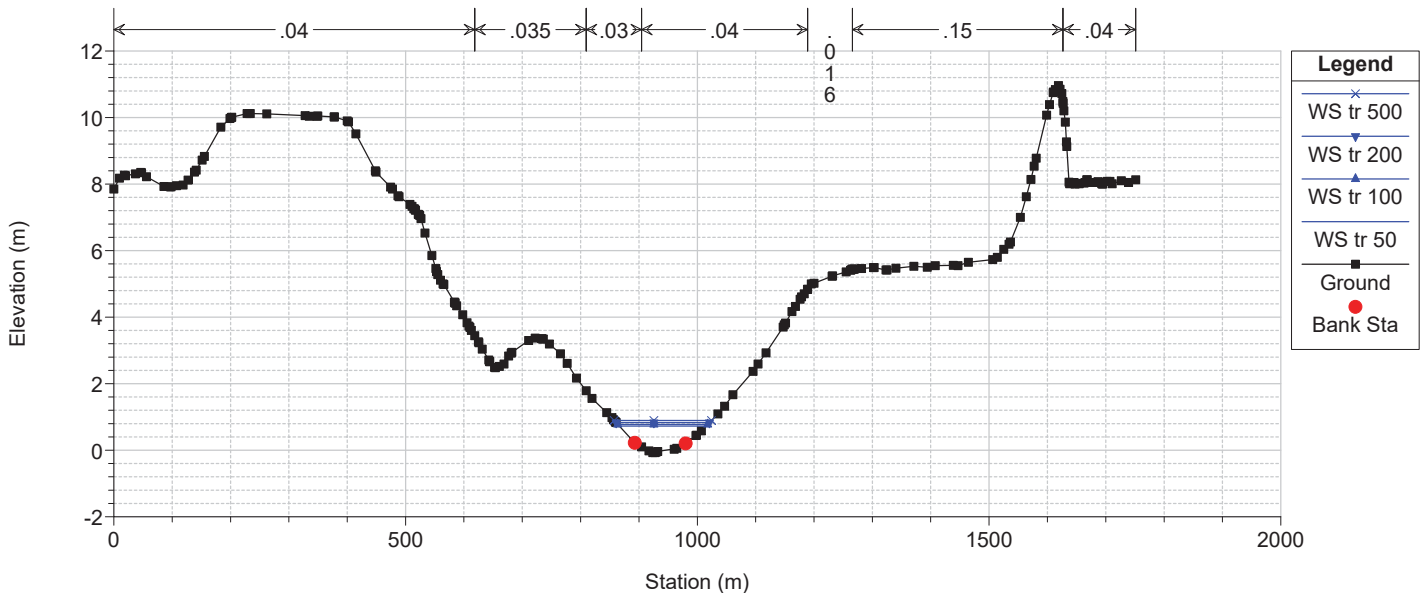
River = Canale urune Reach = Asta 4 RS = 389.4705 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

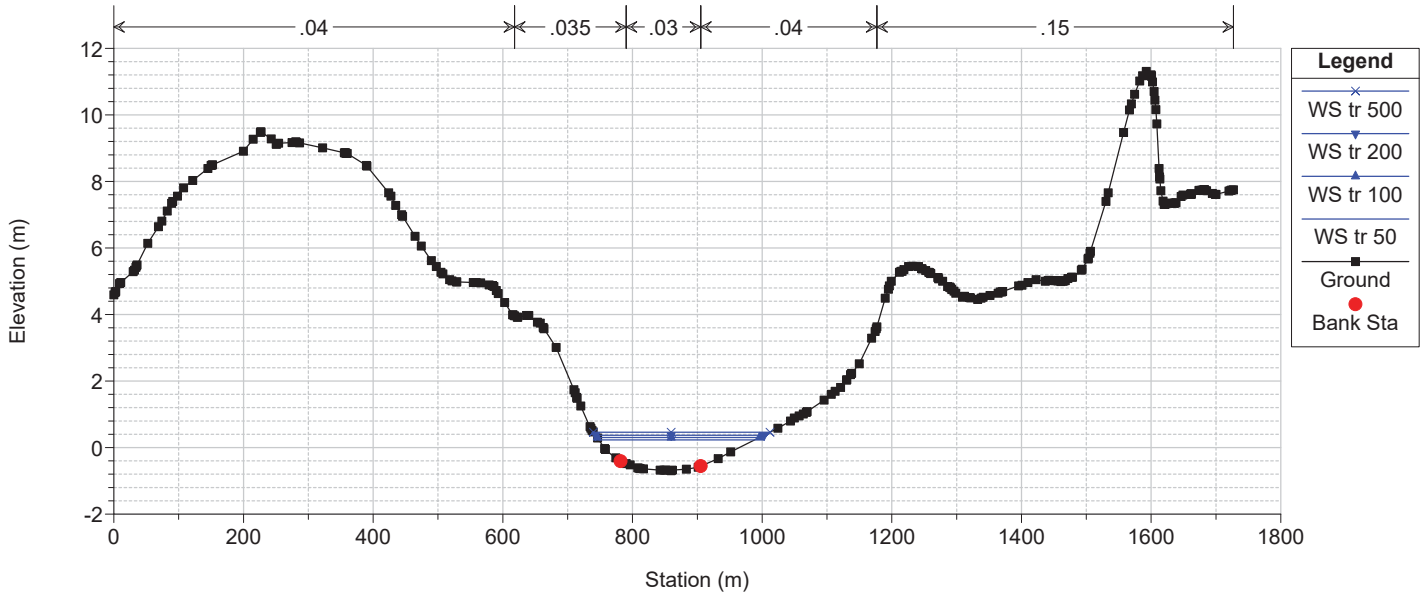
River = Canale urune Reach = Asta 4 RS = 304.3083 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

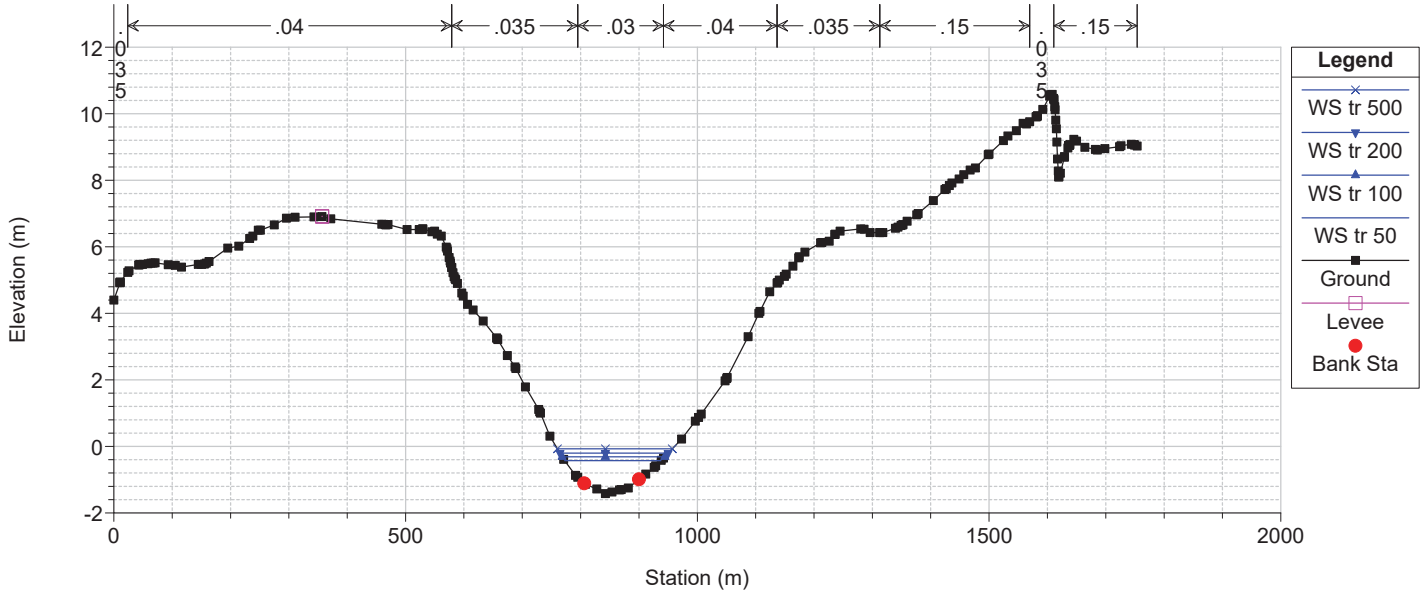
River = Canale urune Reach = Asta 4 RS = 210.728 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



urune26062017

Geom: urune26062017_2_rev07 Flow: urune26062017

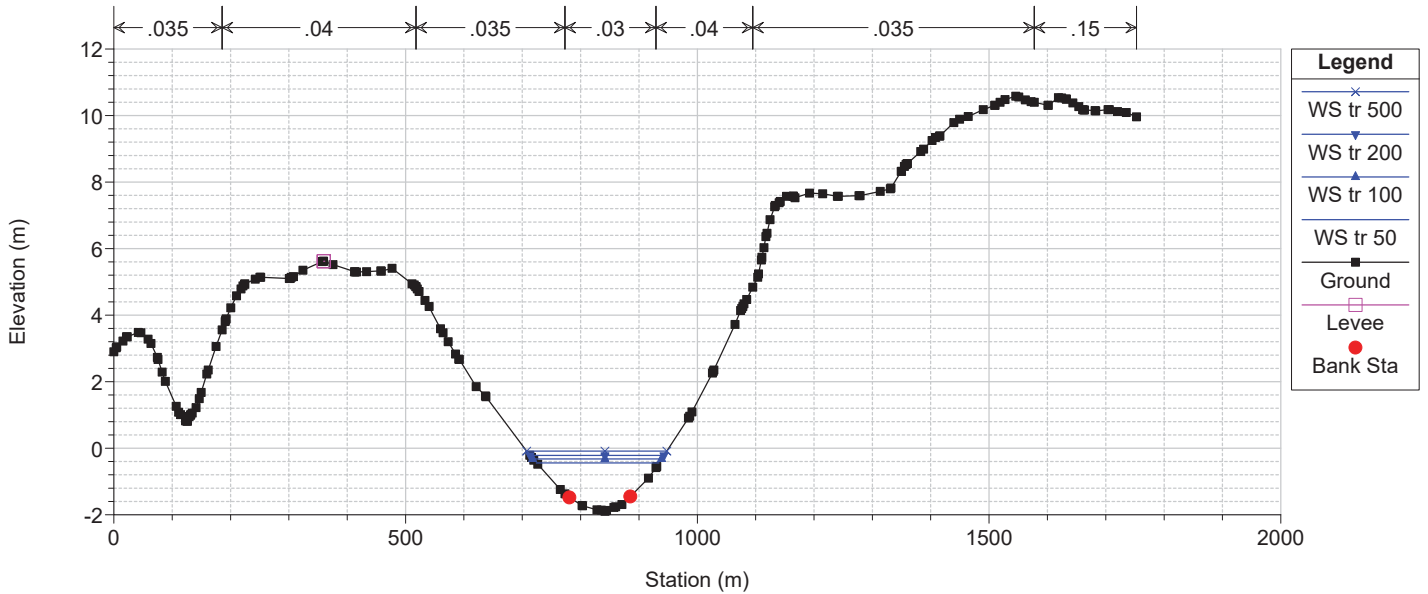
River = Canale urune Reach = Asta 4 RS = 82.51281 COMUNE DI ALGHERO (SS) - STUDIO ASS. IDRA. AREA VARIANTE PCVB - GRUPPO URUNE



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	0.000052	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		32.73	0.000020	0.24	163.50	258.14	0.05
71849	9237.654	tr 100	16.79	30.39	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	0.000002	0.09	427.55	302.41	0.02
71849	9237.654	tr 500	22.45	30.39	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		32.73	0.000011	0.19	193.24	248.70	0.04
71849	9207.654	tr 100	16.79	30.30	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	0.000002	0.09	454.28	298.56	0.02
71849	9207.654	tr 500	22.45	30.30	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		32.73	0.000005	0.14	252.50	260.73	0.03
71849	9177.654	tr 100	16.79	30.13	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	0.000001	0.08	553.78	421.87	0.01
71849	9177.654	tr 500	22.45	30.13	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		32.73	0.000004	0.12	292.68	287.69	0.02
71849	9147.654	tr 100	16.79	29.95	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	0.000001	0.07	676.11	489.53	0.01
71849	9147.654	tr 500	22.45	29.95	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		32.73	0.000003	0.12	332.51	407.42	0.02
71849	9117.654	tr 100	16.79	29.82	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	0.000001	0.06	771.11	530.27	0.01
71849	9117.654	tr 500	22.45	29.82	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		32.73	0.000003	0.12	294.03	325.92	0.02
71849	9087.654	tr 100	16.79	29.70	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	0.000001	0.07	664.94	461.87	0.01
71849	9087.654	tr 500	22.45	29.70	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		32.73	0.000003	0.12	278.59	222.78	0.02
71849	9057.654	tr 100	16.79	29.58	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	0.000001	0.07	498.43	236.76	0.01
71849	9057.654	tr 500	22.45	29.58	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		32.73	0.000002	0.11	272.40	187.14	0.02
71849	9027.654	tr 100	16.79	29.48	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	0.000001	0.08	456.71	197.03	0.01
71849	9027.654	tr 500	22.45	29.48	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		32.73	0.000002	0.10	309.40	193.33	0.02
71849	8997.654	tr 100	16.79	29.39	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	0.000001	0.07	495.37	197.37	0.01
71849	8997.654	tr 500	22.45	29.39	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		32.73	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	23.35	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

VARIANTE AL PAI, ex art. 37 comma 3 delle NTA del PAI a seguito di Studio di Assetto idraulico e geologico del territorio comunale ai sensi dell'art.8 comma 2 delle N.A. del PAI

Area di indagine: **TERRITORIO COMUNALE**

SIMULAZIONI IN MOTO PERMANENTE

Modello 3 – Gruppo rio Serra

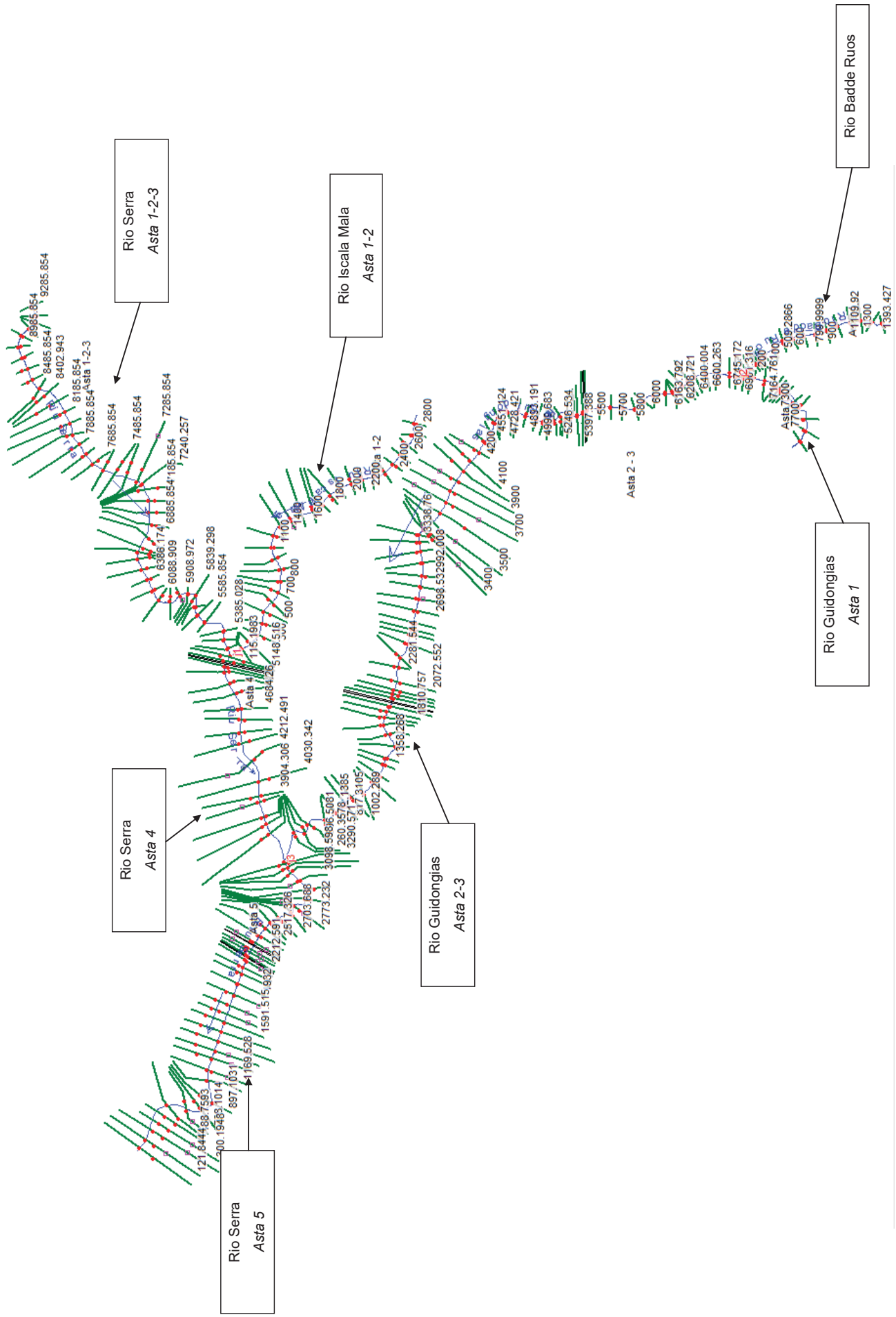
Aste torrentizie studiate:

rio Badde Ruos
Rio Guidongias
Riu Iscala Mala
Riu Serra

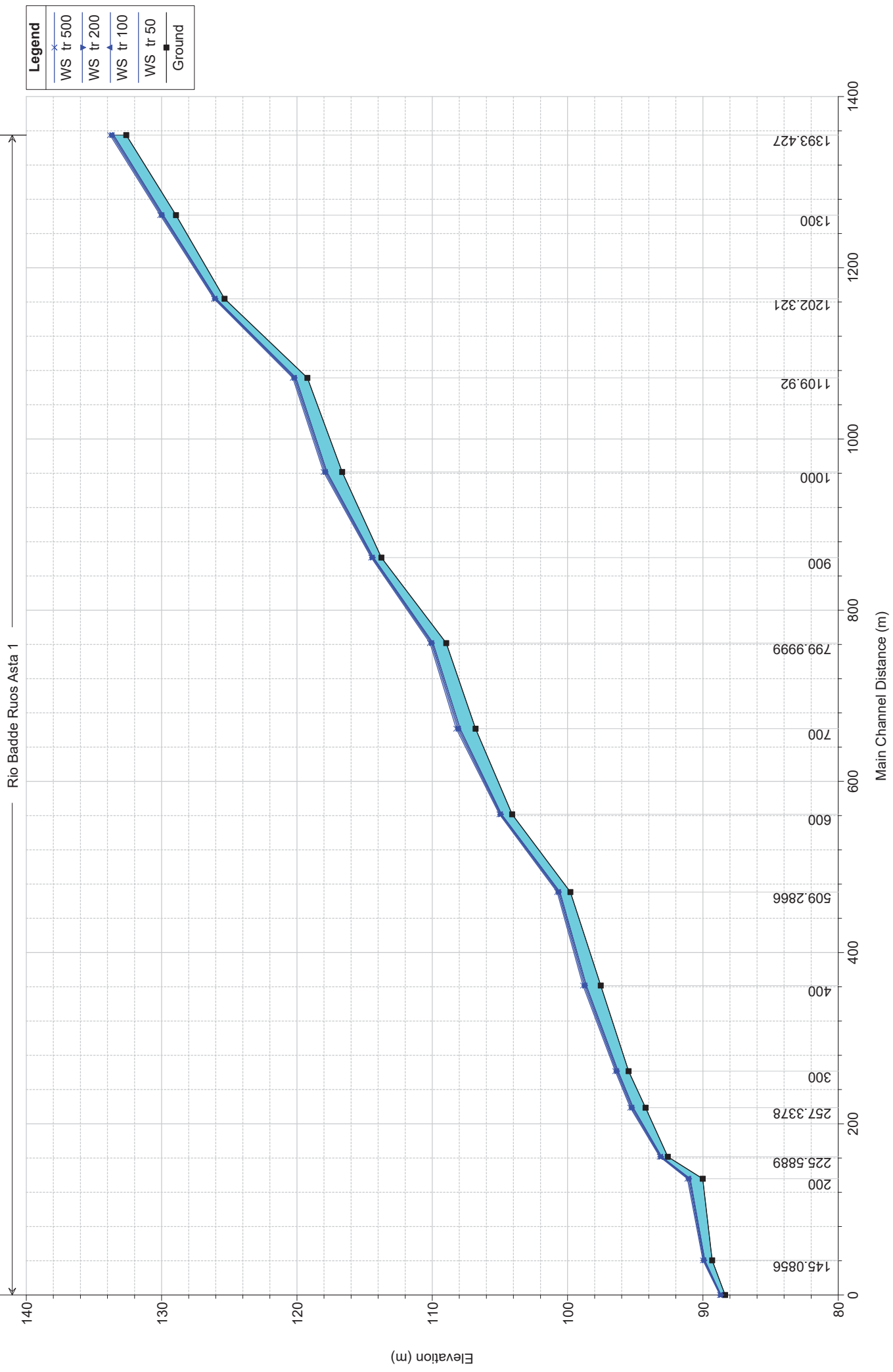
- Schema planimetrico del modello matematico;
- Profili longitudinali con livelli idrici per i tempi di ritorno 50, 100, 200 e 500 anni;
- Sezioni trasversali con livelli idrici per i tempi di ritorno 50, 100, 200 e 500 anni;
- Tabulati numerici di output per i tempi di ritorno 50, 100, 200 e 500 anni;

River	Reach	RS	PORTATE mc/s			
			tr 50	tr 100	tr 200	tr 500
Rio Badde Ruos	Asta 1	1,393,427	15,225	18.13	21,107	25,216
Rio Guidongias	Asta 1	7700	10,458	12,145	13,901	16,447
Rio Guidongias	Asta 2 - 3	6,745,172	33,418	40,453	47,628	57,292
Rio Guidongias	Asta 2 - 3	4200	49,405	594,511	69,648	83,295
Rio Guidongias	Asta 2 - 3	1,606,547	50,319	60,409	70,635	84,302
Riu Iscala Mala	Asta 1-2	2800	151,105	179,316	207.73	245.48
Riu Iscala Mala	Asta 1-2	1300	166,766	197,612	228,653	269,867
Riu Serra	Asta 1-2-3	9,285,854	352,557	417,904	483,673	570,998
Riu Serra	Asta 1-2-3	7,985,854	356,502	421,825	487,504	574,627
Riu Serra	Asta 4	5,148,516	476,811	564,356	652,379	769,134
Riu Serra	Asta 5	3,290,571	505,336	598,146	691,463	815,236
Riu Serra	Asta 5	1,834,316	508,139	600,211	692,699	815,274

River	Reach	PROFILI	condizioni al contorno	
			upstream	downstream
Rio Badde Ruos	Asta 1	all	Critical Depth	Junction=j2
Rio Guidongias	Asta 1	all	Critical Depth	Junction=j2
Rio Guidongias	Asta 2 - 3	all	Junction=j2	Junction=j3
Riu Iscala Mala	Asta 1-2	all	Critical Depth	Junction=j1
Riu Serra	Asta 1-2-3	all	Critical Depth	Junction=j1
Riu Serra	Asta 4	all	Junction=j1	Junction=j3
Riu Serra	Asta 5	all	Junction=j3	Normal Depth S = 0.013



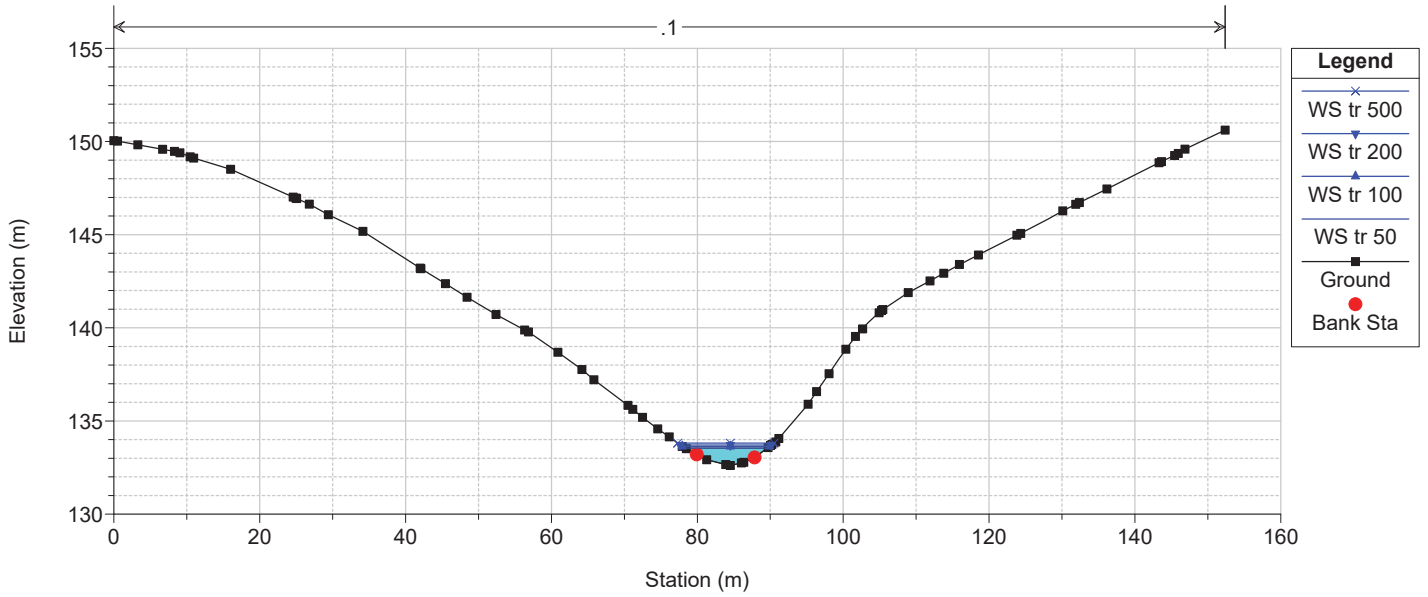
rioserra_28092017 Plan: Plan 02 10/14/2020
Geom: rioserra_28092017 Flow: rioserra_14102020VS COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

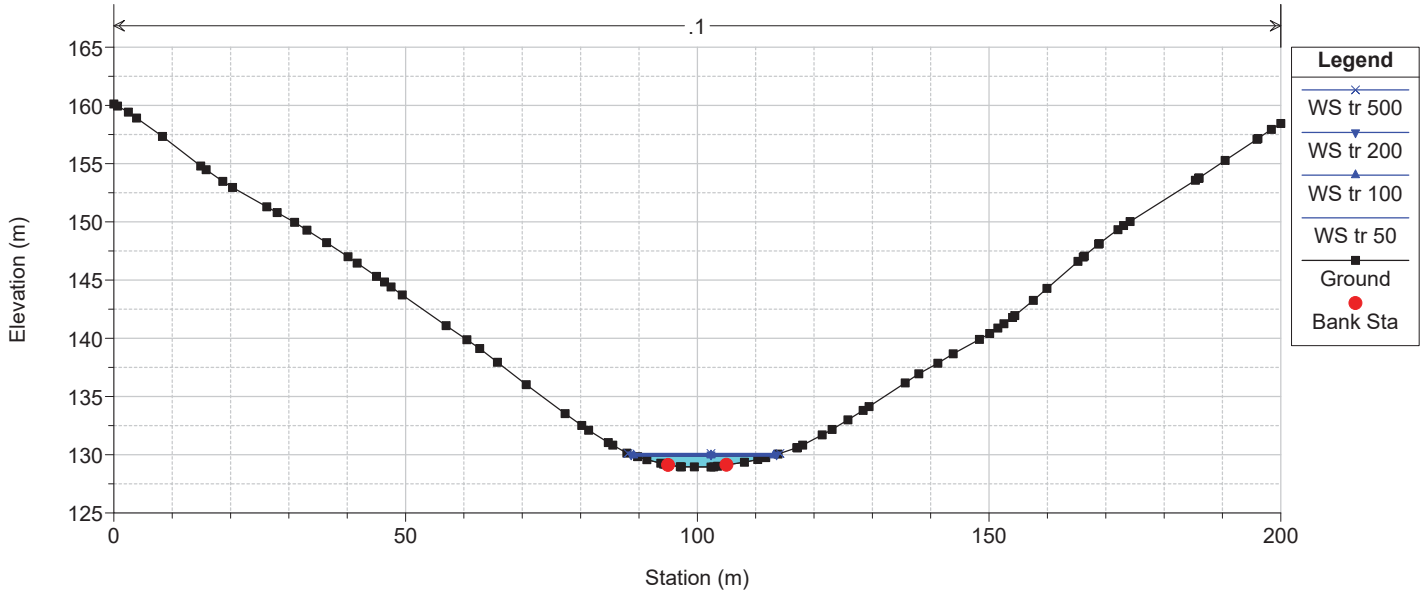
River = Rio Badde Ruos Reach = Asta 1 RS = 1393.427 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

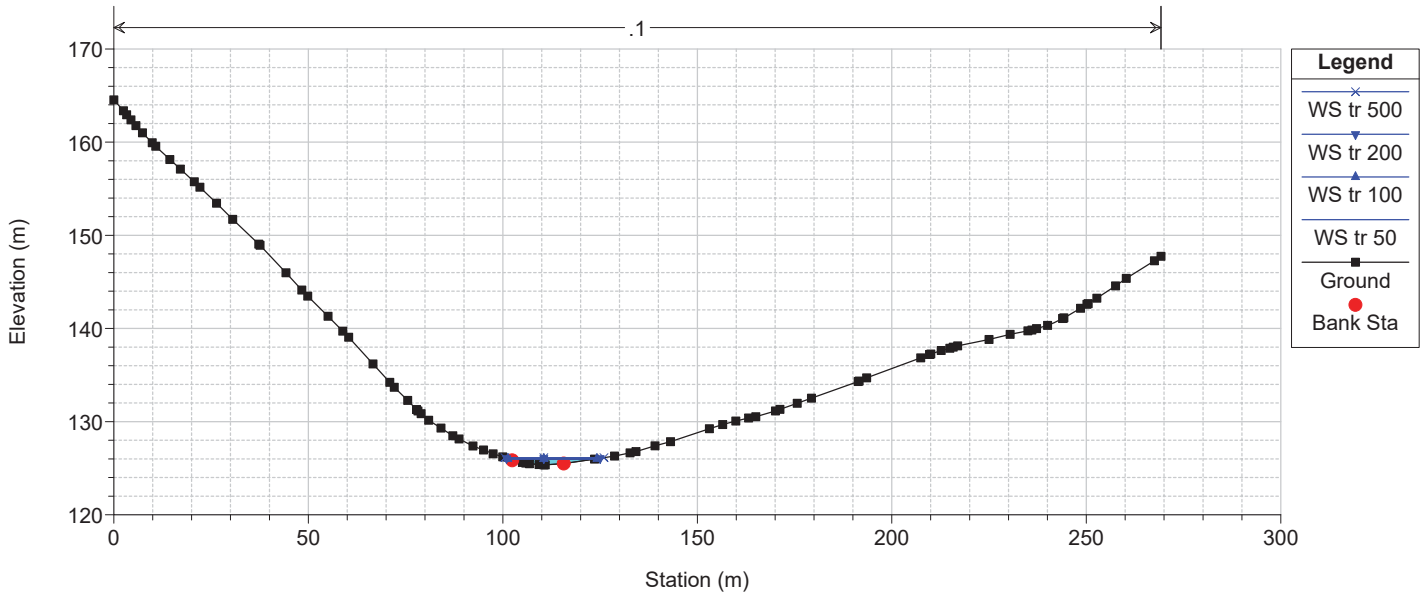
River = Rio Badde Ruos Reach = Asta 1 RS = 1300 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

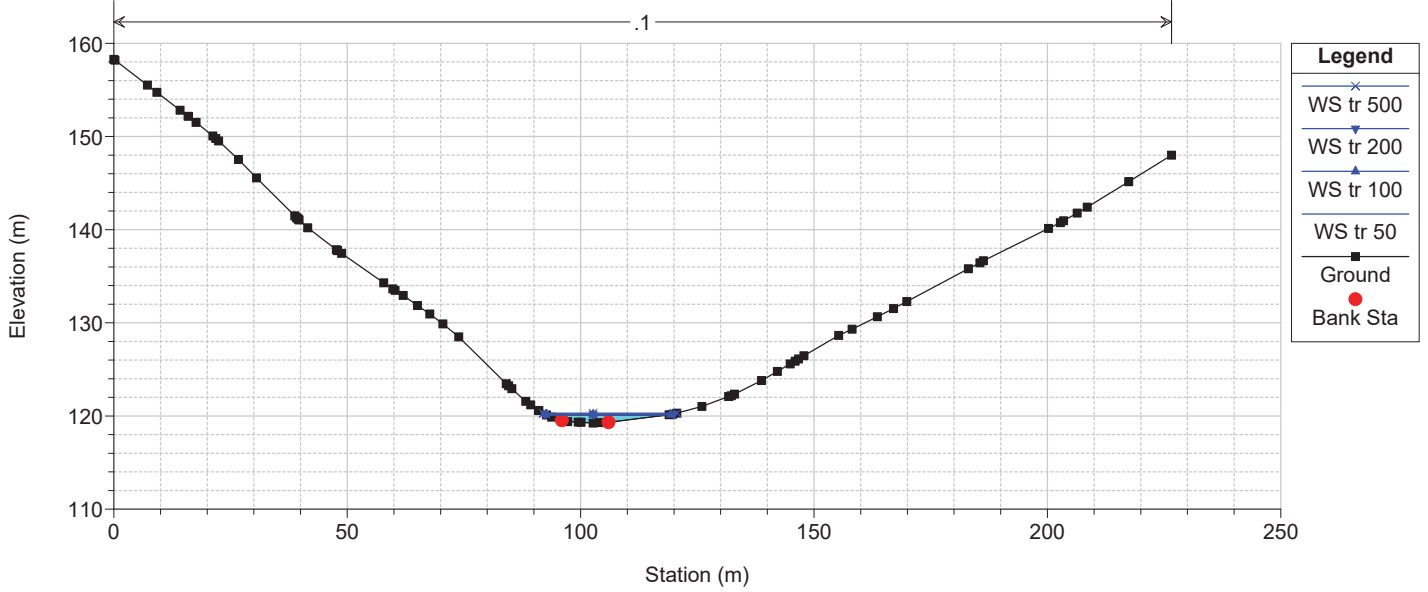
River = Rio Badde Ruos Reach = Asta 1 RS = 1202.321 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

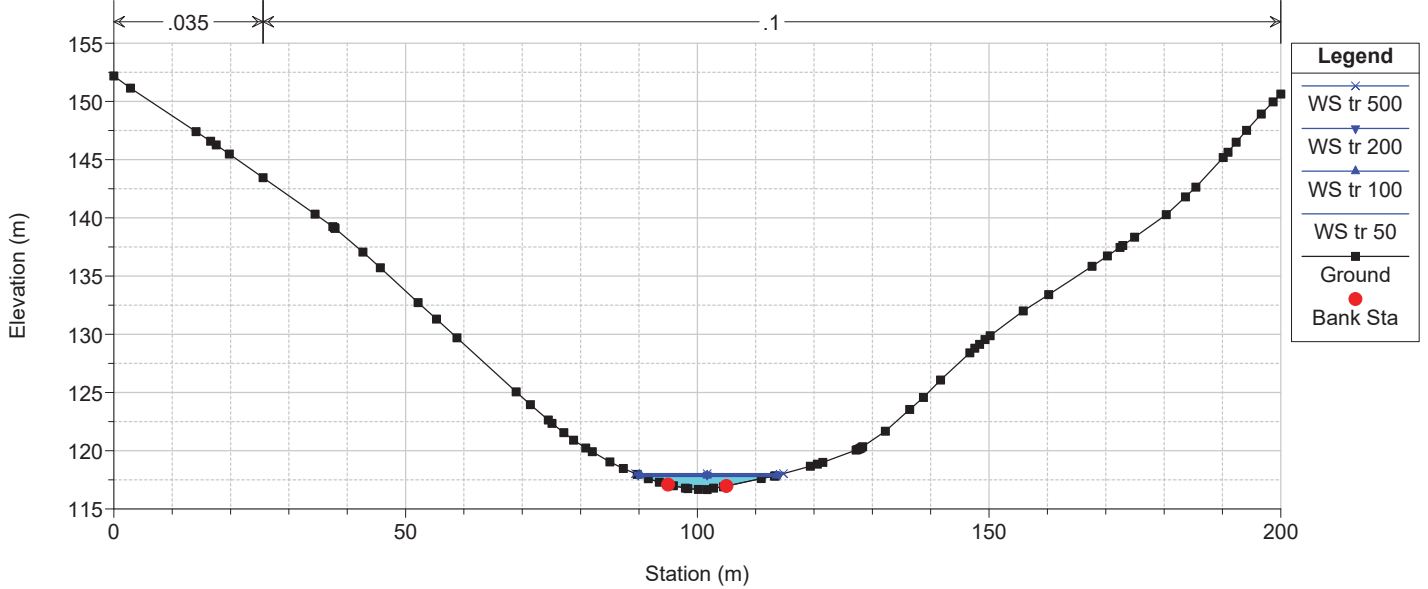
River = Rio Badde Ruos Reach = Asta 1 RS = 1109.92 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

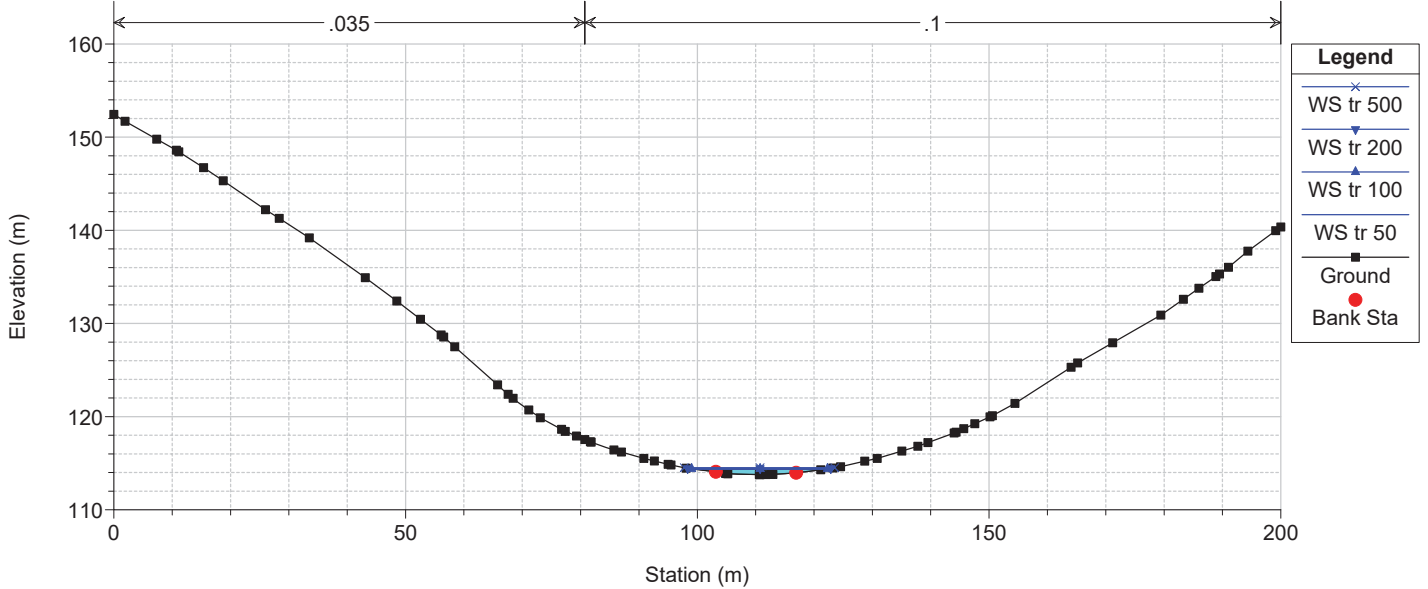
River = Rio Badde Ruos Reach = Asta 1 RS = 1000 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

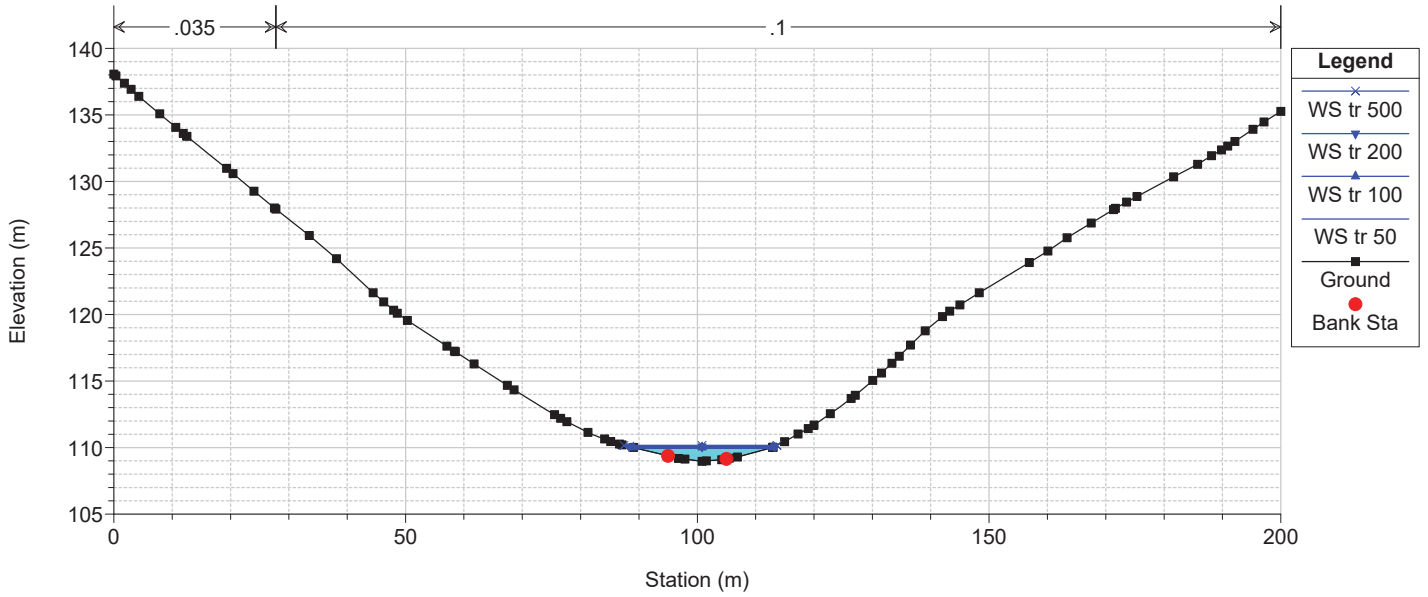
River = Rio Badde Ruos Reach = Asta 1 RS = 900 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

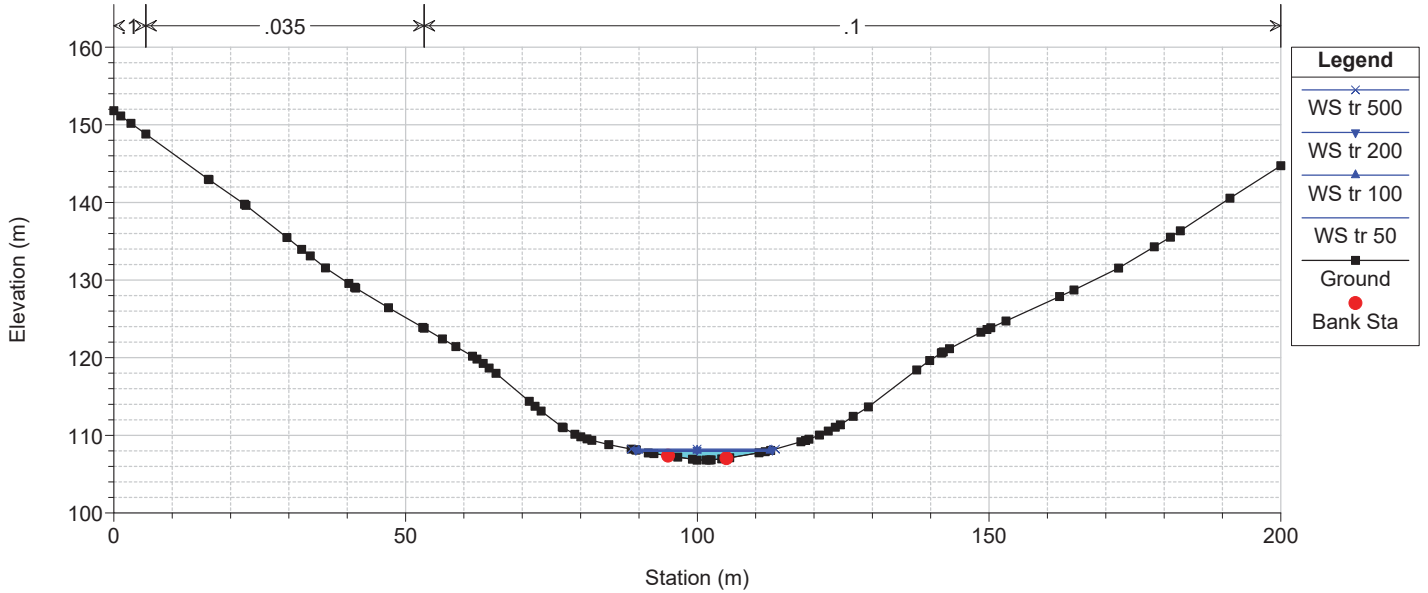
River = Rio Badde Ruos Reach = Asta 1 RS = 799.9999 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

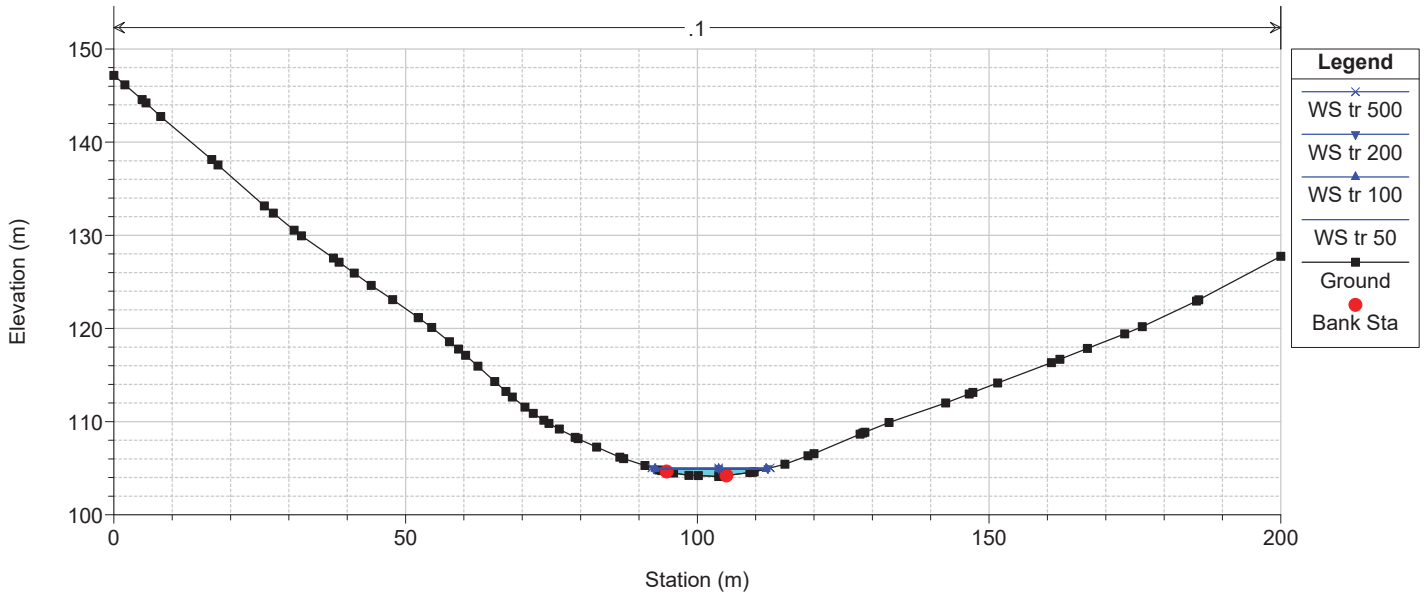
River = Rio Badde Ruos Reach = Asta 1 RS = 700 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

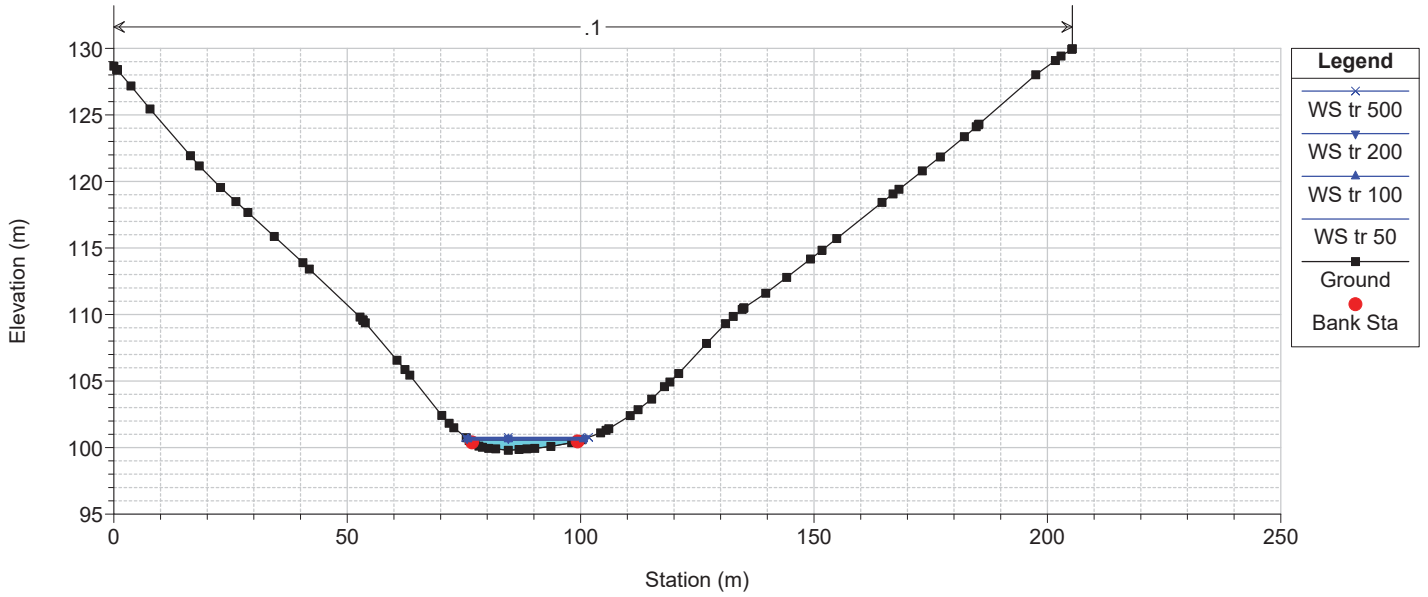
River = Rio Badde Ruos Reach = Asta 1 RS = 600 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

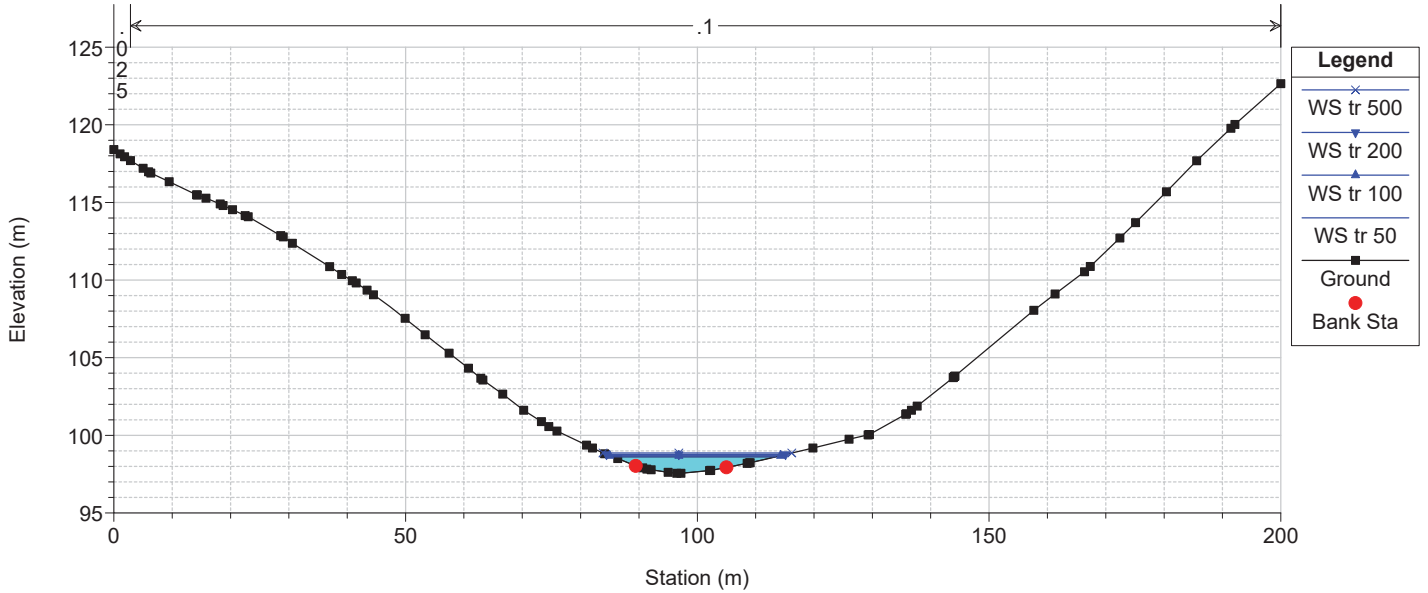
River = Rio Badde Ruos Reach = Asta 1 RS = 509.2866 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

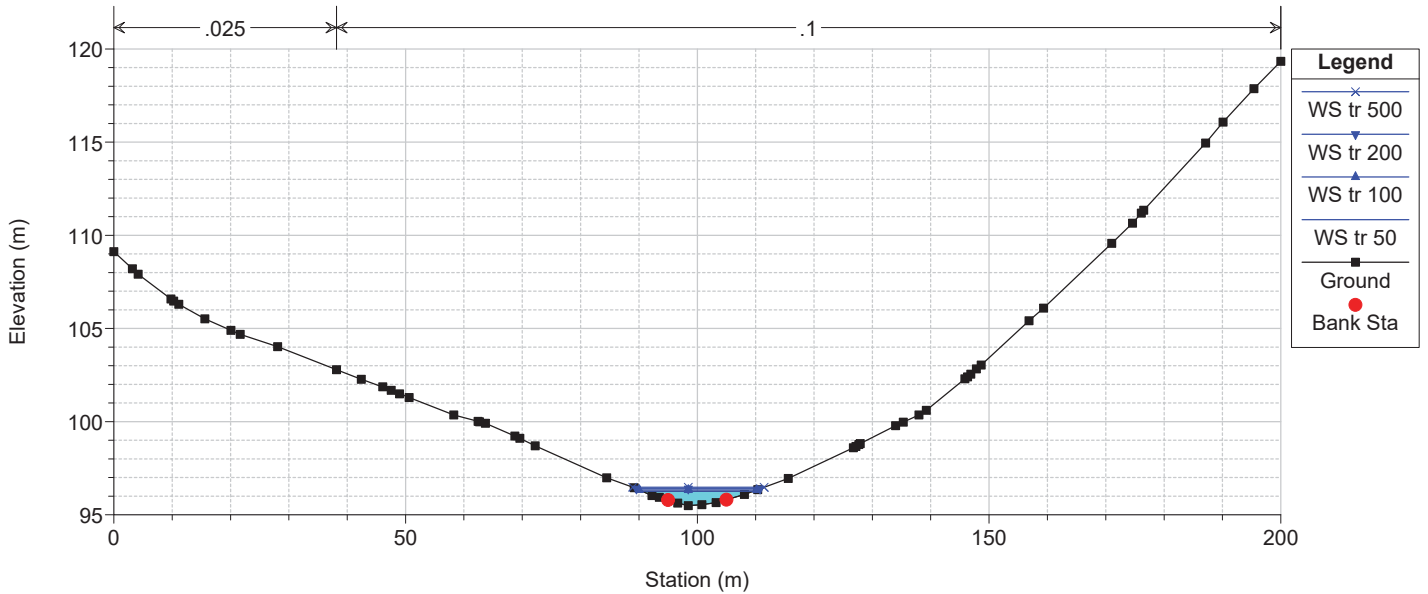
River = Rio Badde Ruos Reach = Asta 1 RS = 400 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

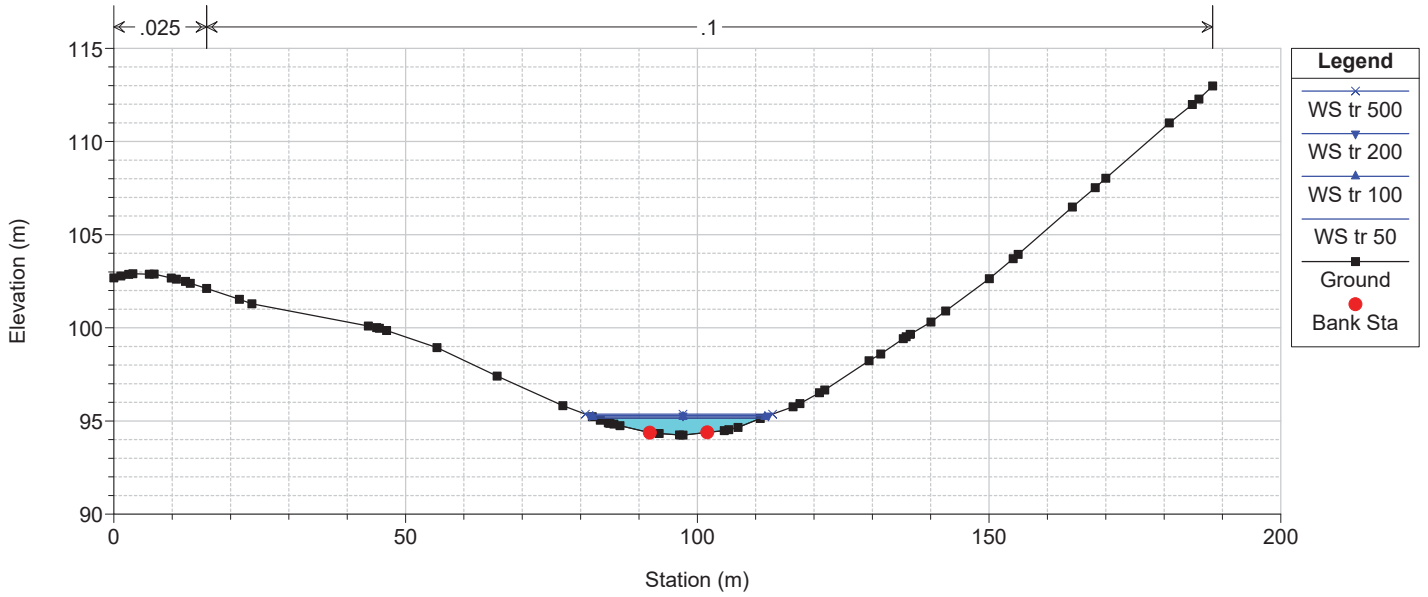
River = Rio Badde Ruos Reach = Asta 1 RS = 300 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

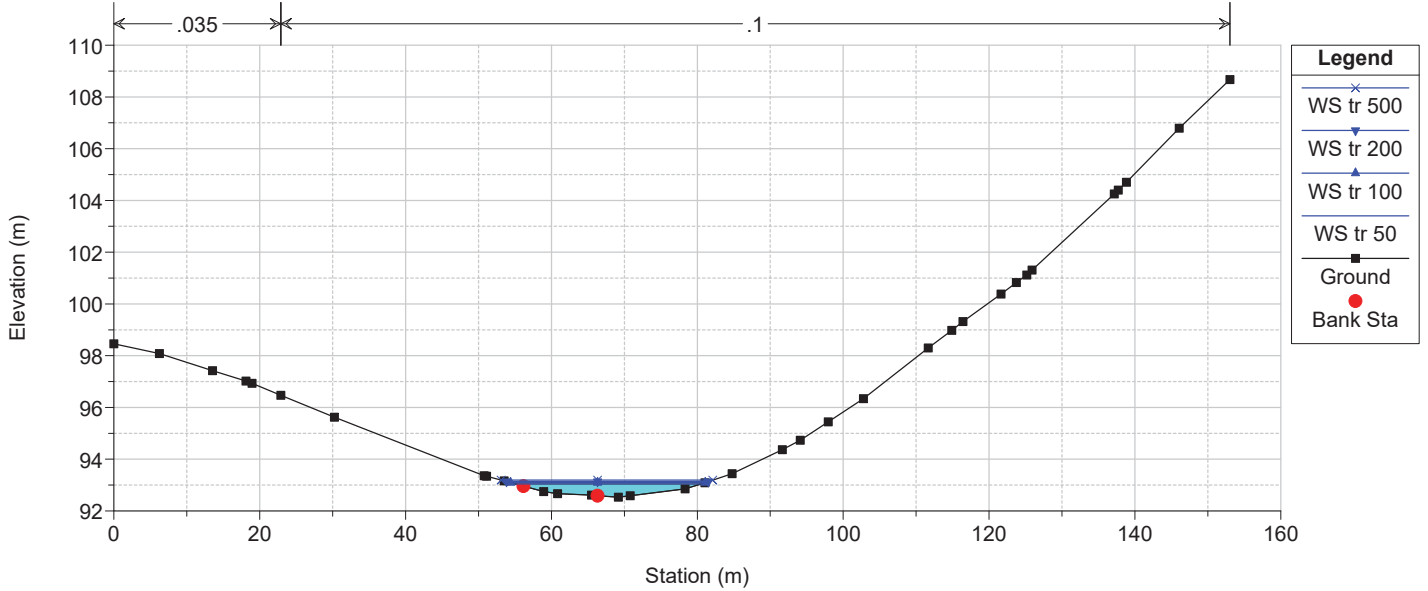
River = Rio Badde Ruos Reach = Asta 1 RS = 257.3378 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

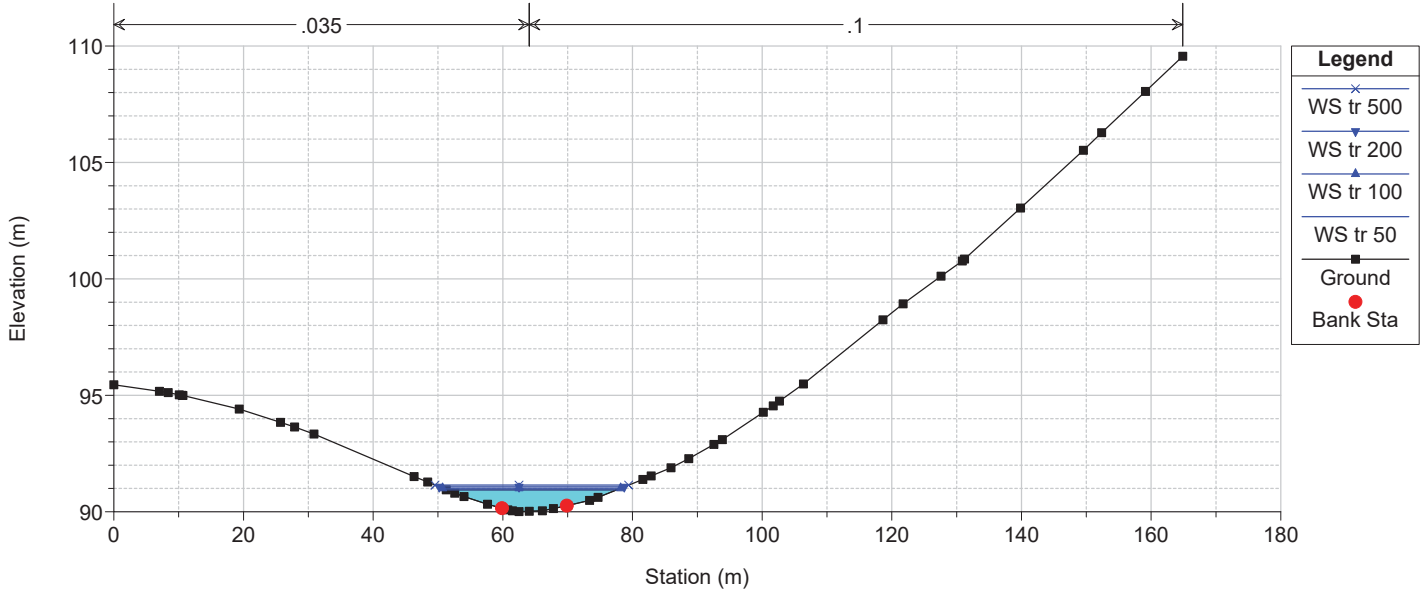
River = Rio Badde Ruos Reach = Asta 1 RS = 225.5889 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

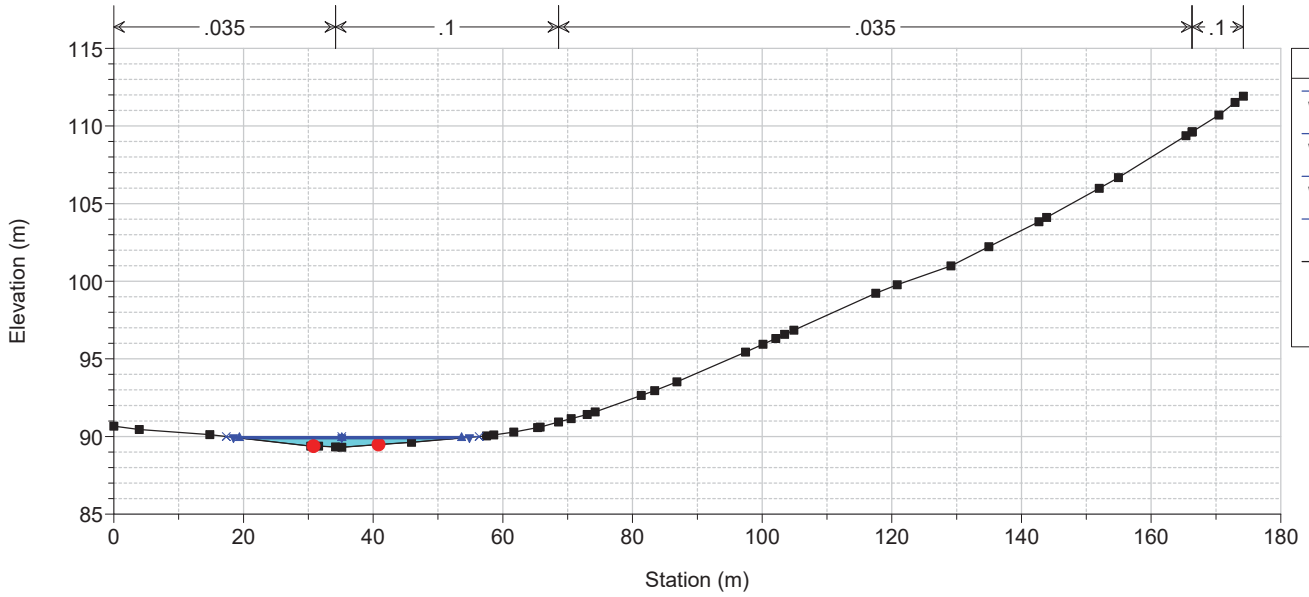
River = Rio Badde Ruos Reach = Asta 1 RS = 200 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

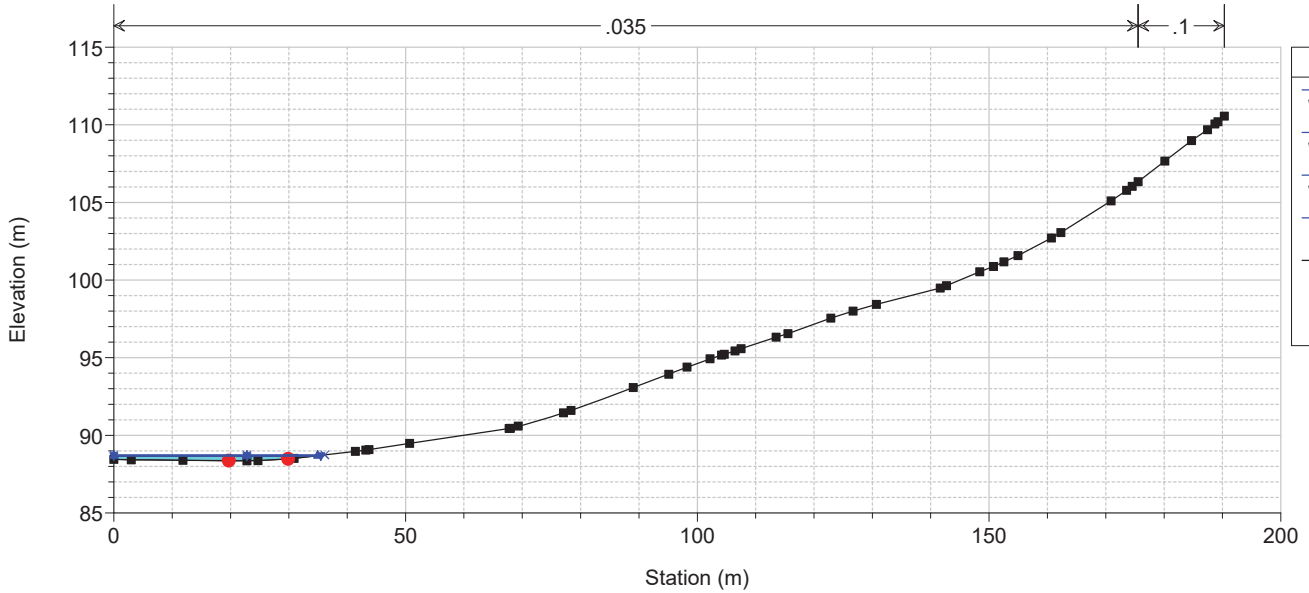
River = Rio Badde Ruos Reach = Asta 1 RS = 145.0856 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

River = Rio Badde Ruos Reach = Asta 1 RS = 104.5972 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



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	1393.427	tr 50	15.23	132.61	133.55	133.55	133.86	0.097938	2.51	6.47	11.31	0.94
Asta 1	1393.427	tr 100	18.13	132.61	133.63	133.63	133.97	0.092244	2.62	7.47	11.98	0.93
Asta 1	1393.427	tr 200	21.11	132.61	133.71	133.71	134.07	0.089313	2.74	8.41	12.48	0.93
Asta 1	1393.427	tr 500	25.22	132.61	133.81	133.81	134.20	0.086340	2.89	9.66	13.19	0.93
Asta 1	1300	tr 50	15.23	128.94	129.88	129.57	129.94	0.018783	1.26	14.24	23.06	0.43
Asta 1	1300	tr 100	18.13	128.94	129.95	129.63	130.02	0.019240	1.35	15.98	24.03	0.44
Asta 1	1300	tr 200	21.11	128.94	130.02	129.69	130.10	0.019735	1.43	17.65	24.93	0.45
Asta 1	1300	tr 500	25.22	128.94	130.11	129.76	130.20	0.020113	1.52	19.90	26.03	0.46
Asta 1	1202.321	tr 50	15.23	125.35	125.96	125.96	126.16	0.117350	2.07	8.07	21.67	0.96
Asta 1	1202.321	tr 100	18.13	125.35	126.02	126.02	126.23	0.111437	2.16	9.27	22.89	0.96
Asta 1	1202.321	tr 200	21.11	125.35	126.07	126.07	126.30	0.105764	2.25	10.50	24.07	0.95
Asta 1	1202.321	tr 500	25.22	125.35	126.13	126.13	126.38	0.102392	2.37	12.04	25.48	0.95
Asta 1	1109.92	tr 50	15.23	119.23	120.08	119.87	120.16	0.029082	1.41	12.94	25.25	0.52
Asta 1	1109.92	tr 100	18.13	119.23	120.15	119.93	120.24	0.027965	1.47	14.89	26.69	0.52
Asta 1	1109.92	tr 200	21.11	119.23	120.22	119.98	120.32	0.026894	1.52	16.80	27.68	0.51
Asta 1	1109.92	tr 500	25.22	119.23	120.31	120.04	120.41	0.025824	1.59	19.27	28.70	0.51
Asta 1	1000	tr 50	15.23	116.66	117.78		117.85	0.015805	1.23	14.51	22.19	0.40
Asta 1	1000	tr 100	18.13	116.66	117.86		117.94	0.016183	1.32	16.36	23.31	0.41
Asta 1	1000	tr 200	21.11	116.66	117.94		118.02	0.016596	1.40	18.11	24.21	0.42
Asta 1	1000	tr 500	25.22	116.66	118.03	117.62	118.12	0.017027	1.49	20.42	25.34	0.43
Asta 1	900	tr 50	15.23	113.76	114.34	114.34	114.54	0.106577	2.03	8.19	22.04	0.93
Asta 1	900	tr 100	18.13	113.76	114.40	114.40	114.61	0.102507	2.14	9.40	23.29	0.92
Asta 1	900	tr 200	21.11	113.76	114.45	114.45	114.68	0.097924	2.22	10.66	24.53	0.92
Asta 1	900	tr 500	25.22	113.76	114.52	114.52	114.76	0.093651	2.33	12.29	25.78	0.91
Asta 1	799.9999	tr 50	15.23	108.97	109.94	109.68	110.02	0.024055	1.38	12.97	22.57	0.48
Asta 1	799.9999	tr 100	18.13	108.97	110.01	109.74	110.10	0.024324	1.46	14.69	23.88	0.49
Asta 1	799.9999	tr 200	21.11	108.97	110.08	109.80	110.18	0.024437	1.54	16.36	24.90	0.50
Asta 1	799.9999	tr 500	25.22	108.97	110.17	109.87	110.28	0.024540	1.63	18.58	26.22	0.50
Asta 1	700	tr 50	15.23	106.80	107.94		108.01	0.016914	1.26	14.10	21.43	0.41
Asta 1	700	tr 100	18.13	106.80	108.03	107.65	108.11	0.016491	1.32	16.13	22.50	0.41
Asta 1	700	tr 200	21.11	106.80	108.12	107.72	108.20	0.016227	1.38	18.10	23.43	0.41
Asta 1	700	tr 500	25.22	106.80	108.23		108.32	0.015913	1.45	20.72	24.71	0.42
Asta 1	600	tr 50	15.23	104.10	104.88		105.03	0.064540	1.85	9.09	18.49	0.75
Asta 1	600	tr 100	18.13	104.10	104.93	104.85	105.11	0.069167	2.01	10.00	19.04	0.78
Asta 1	600	tr 200	21.11	104.10	104.98	104.91	105.18	0.072793	2.16	10.91	19.58	0.81
Asta 1	600	tr 500	25.22	104.10	105.03	104.98	105.28	0.077346	2.34	12.08	20.24	0.85
Asta 1	509.2866	tr 50	15.23	99.79	100.56		100.64	0.037461	1.27	12.10	24.08	0.56
Asta 1	509.2866	tr 100	18.13	99.79	100.63		100.72	0.035485	1.33	13.74	24.78	0.55
Asta 1	509.2866	tr 200	21.11	99.79	100.69		100.79	0.034190	1.40	15.32	25.44	0.55
Asta 1	509.2866	tr 500	25.22	99.79	100.77		100.88	0.032817	1.48	17.42	26.31	0.55
Asta 1	400	tr 50	15.23	97.55	98.61		98.65	0.010606	0.95	17.95	27.84	0.32
Asta 1	400	tr 100	18.13	97.55	98.69		98.74	0.010848	1.02	20.20	29.30	0.33
Asta 1	400	tr 200	21.11	97.55	98.77		98.82	0.011001	1.08	22.44	30.69	0.34
Asta 1	400	tr 500	25.22	97.55	98.86		98.92	0.011181	1.15	25.40	32.35	0.34
Asta 1	300	tr 50	15.23	95.49	96.26	96.21	96.44	0.069509	1.98	8.77	19.06	0.78
Asta 1	300	tr 100	18.13	95.49	96.33	96.27	96.52	0.066230	2.06	10.12	20.16	0.78
Asta 1	300	tr 200	21.11	95.49	96.40	96.33	96.60	0.064194	2.15	11.43	21.17	0.78
Asta 1	300	tr 500	25.22	95.49	96.48	96.41	96.70	0.061945	2.25	13.18	22.50	0.77
Asta 1	257.3378	tr 50	15.23	94.24	95.15	94.83	95.20	0.015248	1.10	16.68	28.39	0.38
Asta 1	257.3378	tr 100	18.13	94.24	95.22	94.88	95.27	0.015690	1.18	18.67	29.50	0.39
Asta 1	257.3378	tr 200	21.11	94.24	95.28	94.93	95.34	0.015939	1.24	20.69	30.65	0.40
Asta 1	257.3378	tr 500	25.22	94.24	95.37	94.99	95.43	0.016383	1.33	23.26	32.08	0.41
Asta 1	225.5889	tr 50	15.23	92.59	93.05	93.05	93.22	0.141003	1.82	8.36	25.55	1.00
Asta 1	225.5889	tr 100	18.13	92.59	93.09	93.09	93.28	0.132993	1.93	9.57	26.69	0.99
Asta 1	225.5889	tr 200	21.11	92.59	93.14	93.14	93.34	0.129620	2.04	10.69	27.68	1.00
Asta 1	225.5889	tr 500	25.22	92.59	93.19	93.19	93.41	0.123568	2.16	12.26	29.01	0.99
Asta 1	200	tr 50	15.23	90.01	90.94	90.64	91.00	0.005016	1.17	15.12	26.28	0.40
Asta 1	200	tr 100	18.13	90.01	91.01	90.70	91.08	0.005208	1.25	16.93	27.45	0.42
Asta 1	200	tr 200	21.11	90.01	91.07	90.75	91.15	0.005384	1.33	18.67	28.54	0.43
Asta 1	200	tr 500	25.22	90.01	91.14	90.82	91.24	0.005635	1.42	20.90	29.86	0.44
Asta 1	145.0856	tr 50	15.23	89.31	89.86	89.86	90.02	0.030994	1.80	9.71	32.02	0.83
Asta 1	145.0856	tr 100	18.13	89.31	89.90	89.90	90.08	0.029889	1.87	11.22	34.28	0.82
Asta 1	145.0856	tr 200	21.11	89.31	89.95	89.95	90.14	0.029013	1.94	12.73	36.38	0.82
Asta 1	145.0856	tr 500	25.22	89.31	90.00	90.00	90.20	0.028050	2.02	14.75	39.02	0.82
Asta 1	104.5972	tr 50	15.23	88.36	88.66	88.69	88.84	0.026206	1.91	8.27	34.35	1.18
Asta 1	104.5972	tr 100	18.13	88.36	88.69	88.73	88.89	0.027138	2.06	9.15	34.93	1.22
Asta 1	104.5972	tr 200	21.11	88.36	88.71	88.76	88.95	0.027939	2.21	9.99	35.47	1.26

HEC-RAS Plan: Plan 02 River: Rio Badde Ruos Reach: Asta 1 (Continued)

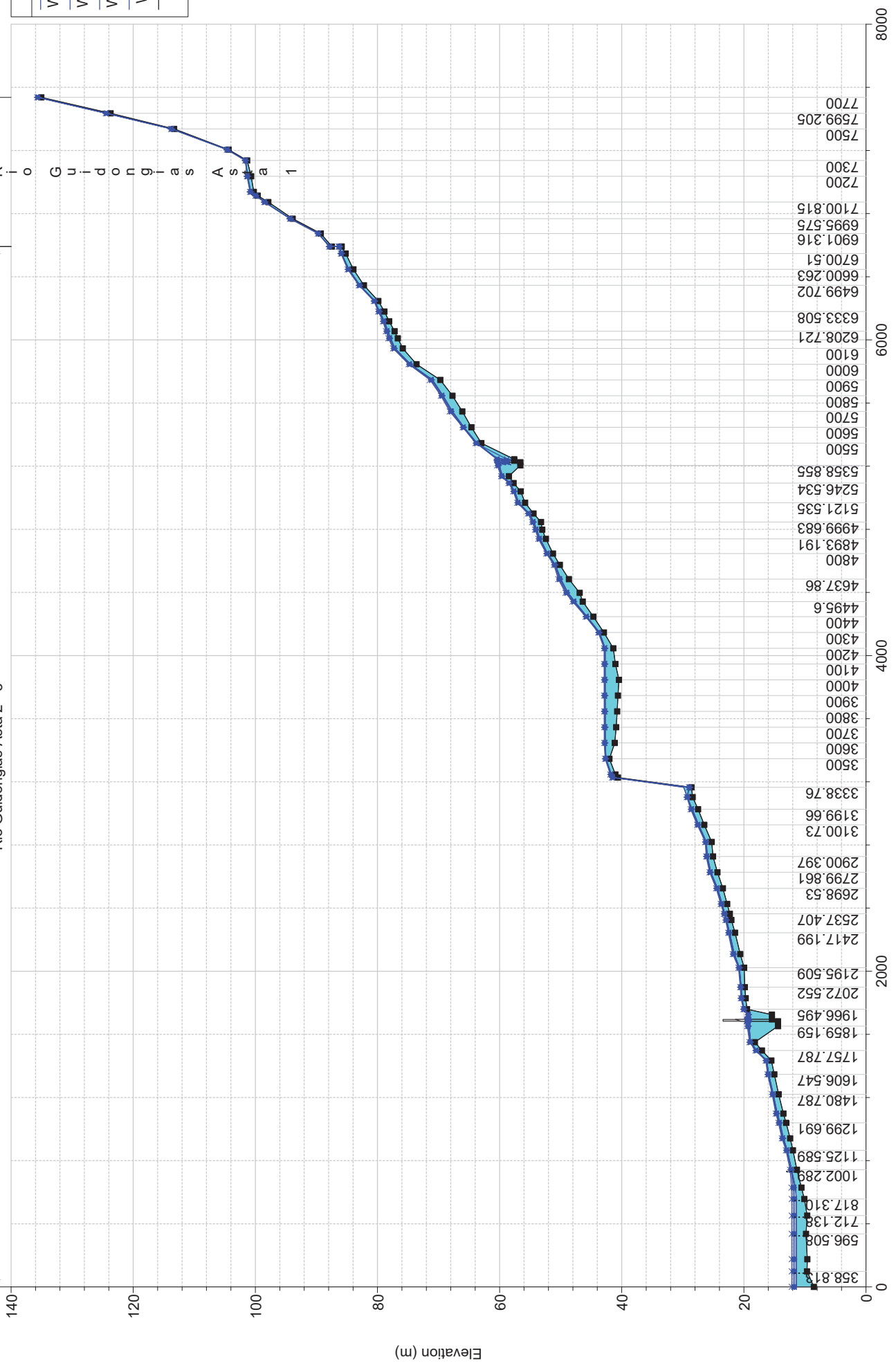
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Asta 1	104.5972	tr 500	25.22	88.36	88.74	88.81	89.02	0.028784	2.38	11.09	36.17	1.30

rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA

Rio Guidongias Asta 2 - 3

Legend	
WS tr 500	x
WS tr 200	▲
WS tr 100	▼
WS tr 50	■
Ground	■



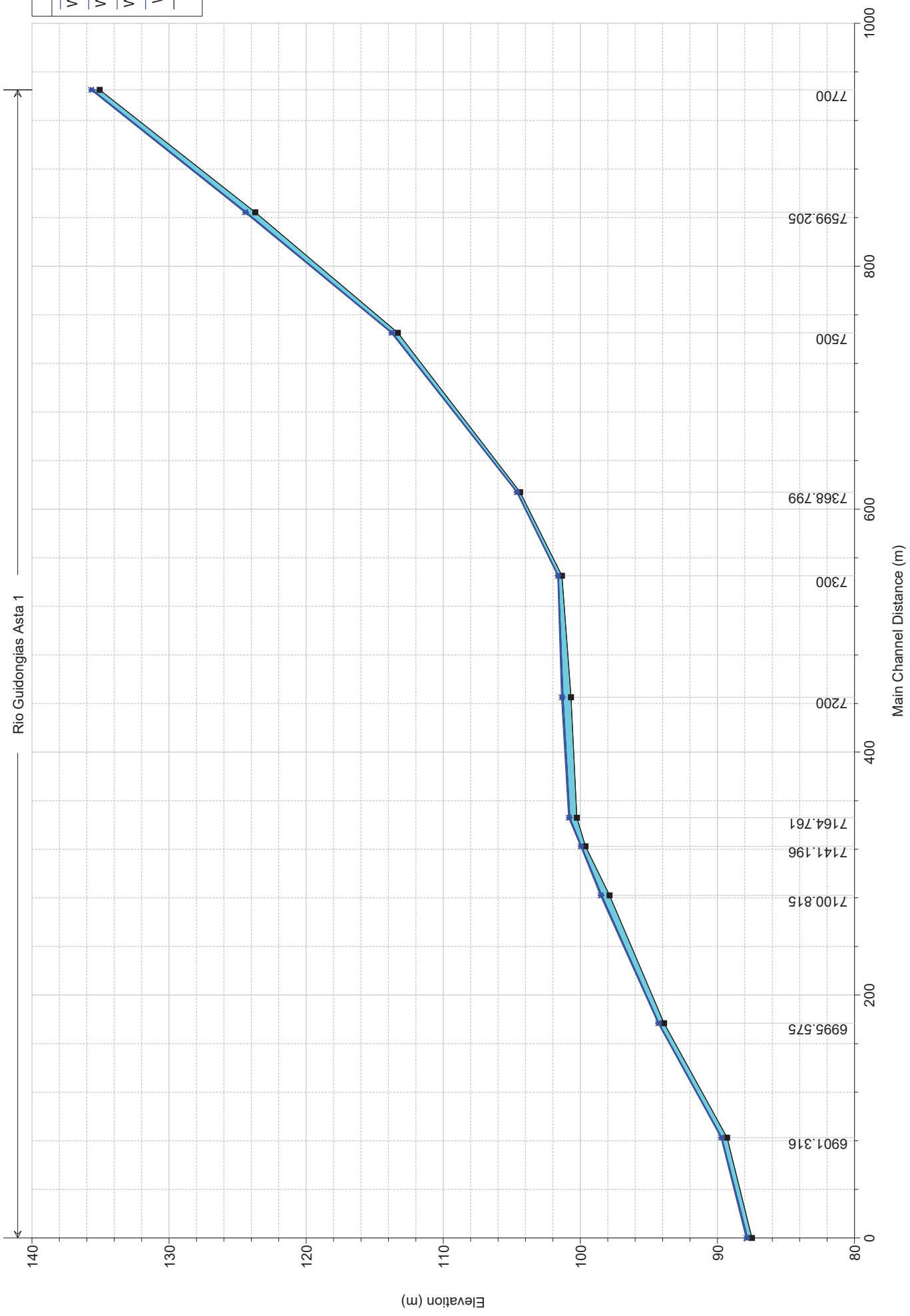
Main Channel Distance (m)

rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA

Rio Guidongias Asta 1

Legend	
WS tr 500	✕
WS tr 200	▶
WS tr 100	▲
WS tr 50	■
Ground	■

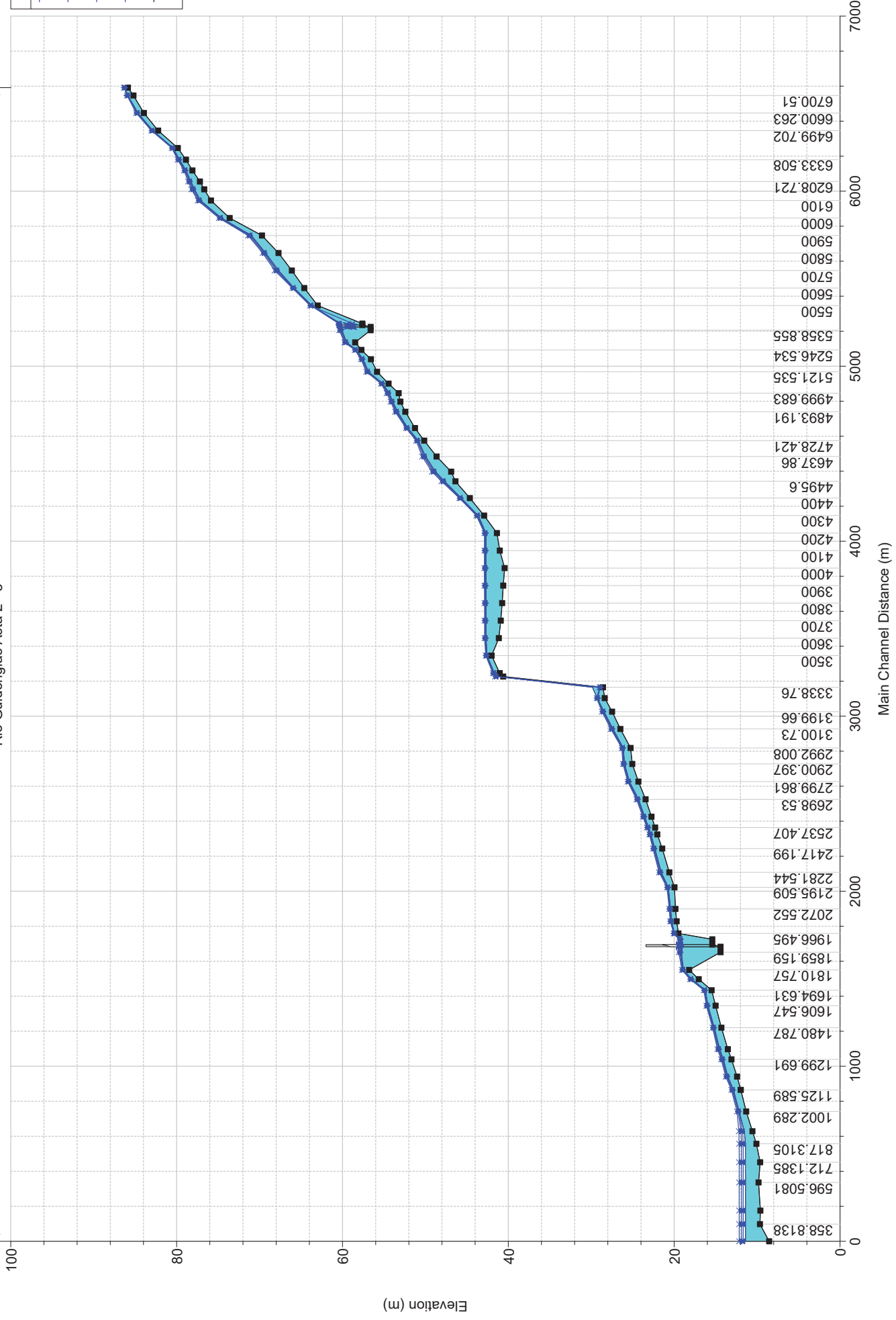


rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA

Rio Guidongias Asta 2 - 3

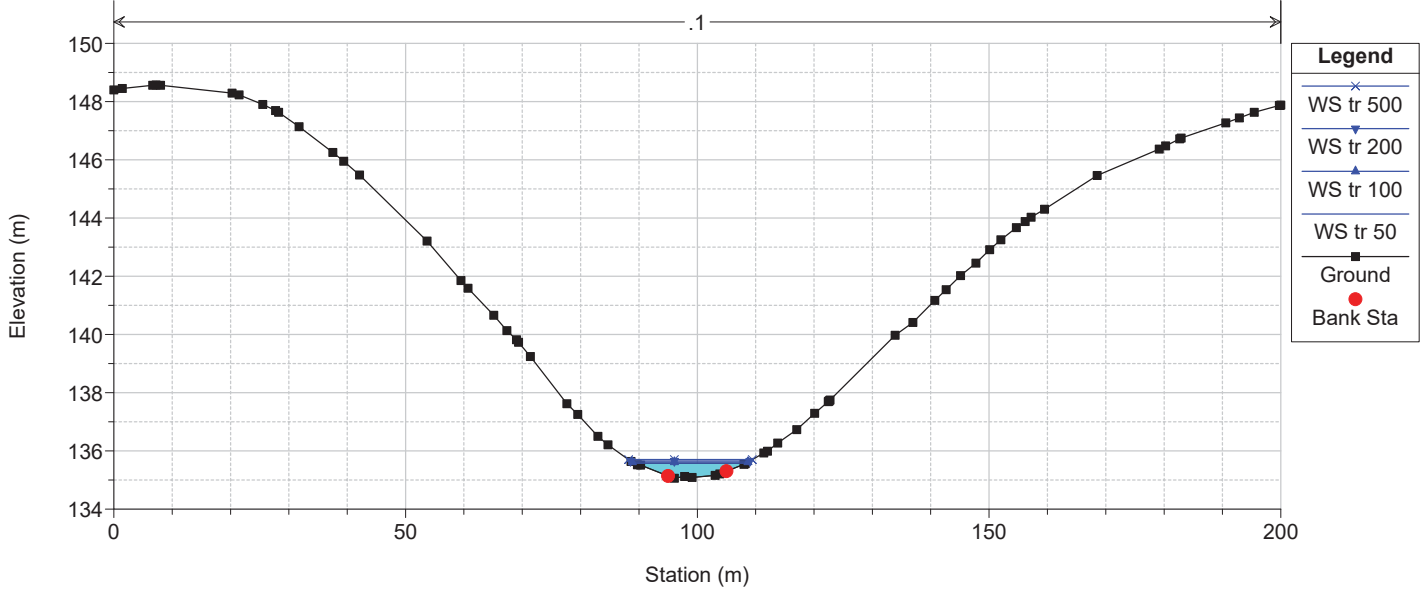
Legend	
WS tr 500	x
WS tr 200	▲
WS tr 100	▼
WS tr 50	■
Ground	■



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

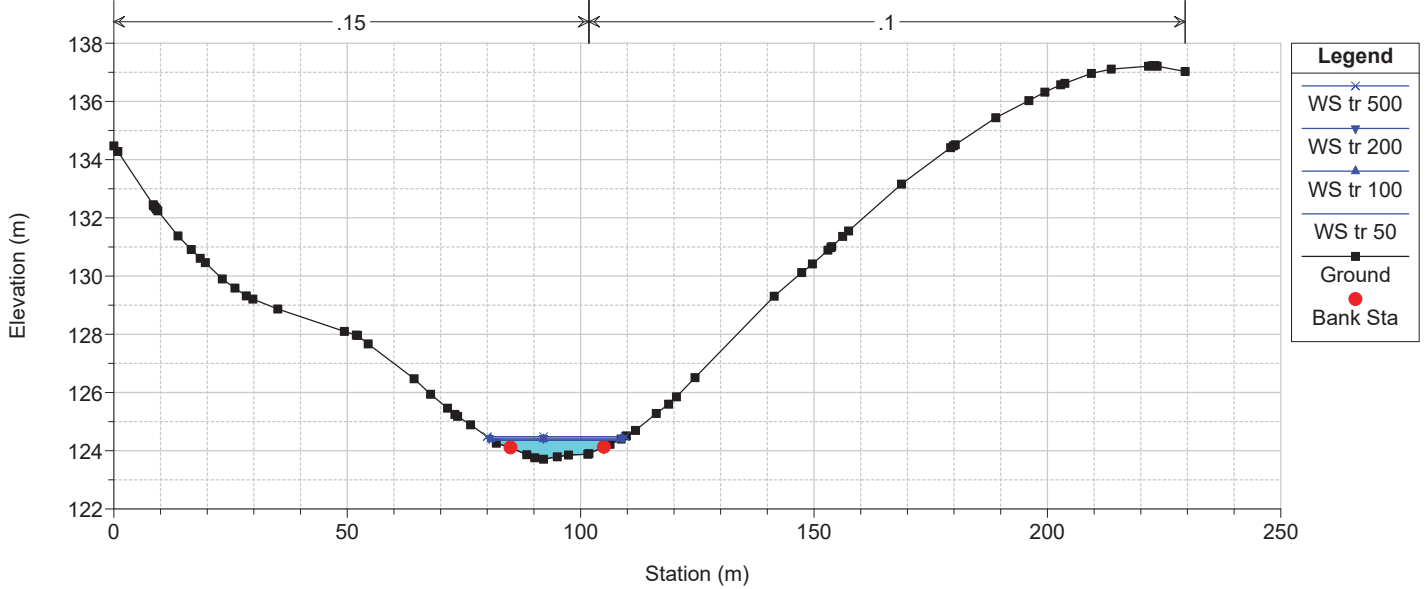
River = Rio Guidongias Reach = Asta 1 RS = 7700 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

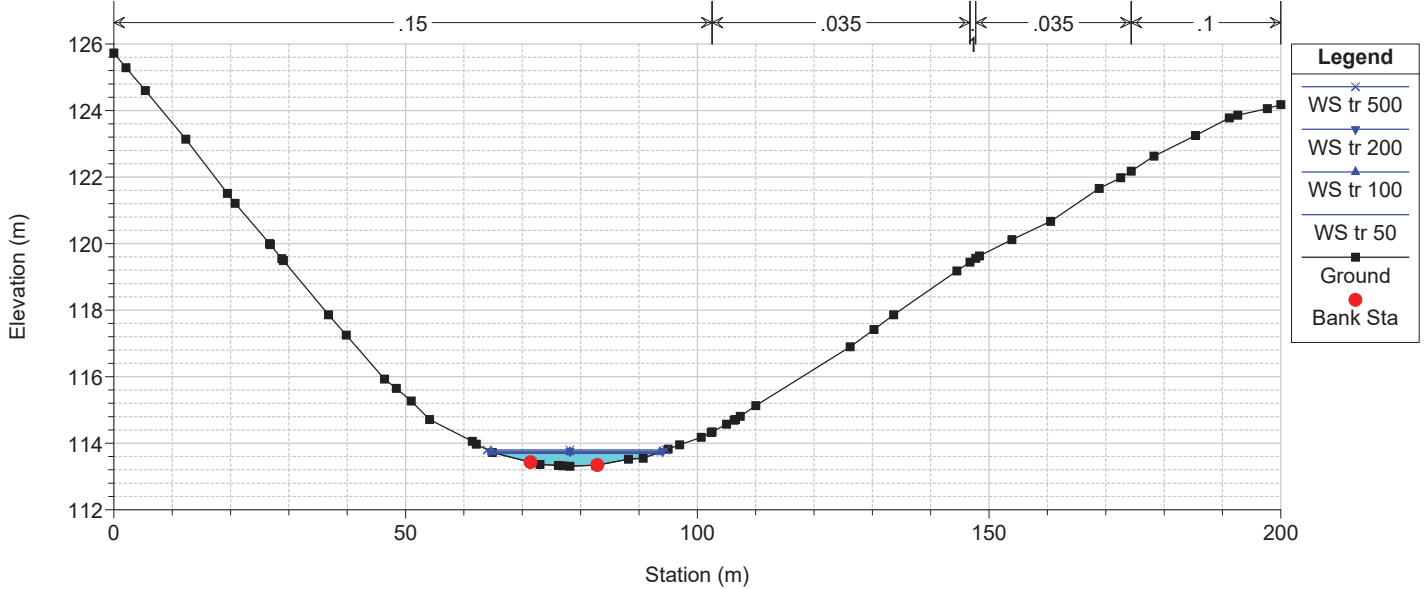
River = Rio Guidongias Reach = Asta 1 RS = 7599.205 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

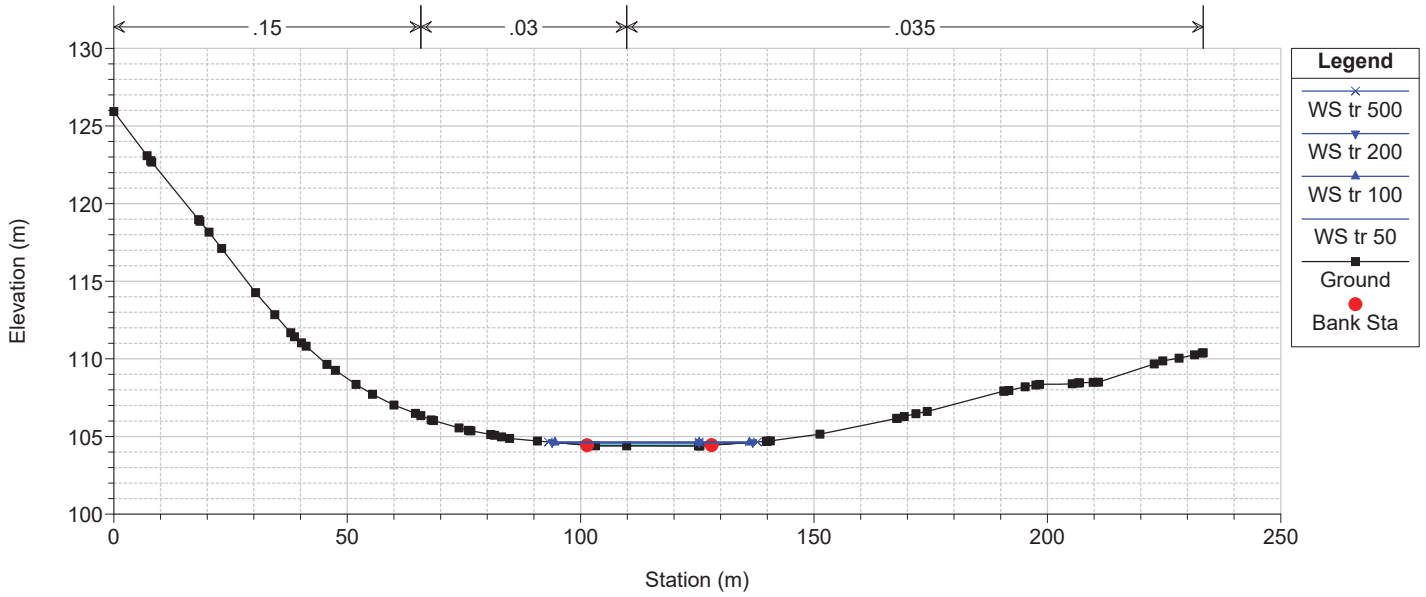
River = Rio Guidongias Reach = Asta 1 RS = 7500 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

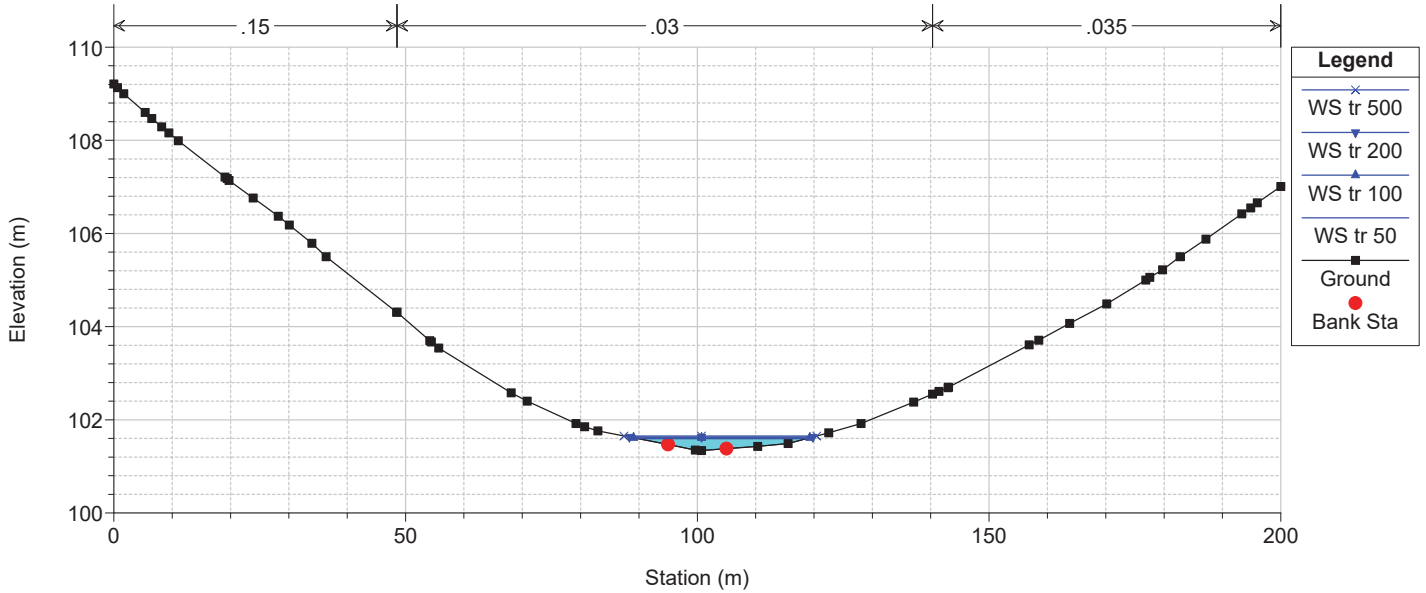
River = Rio Guidongias Reach = Asta 1 RS = 7368.799 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

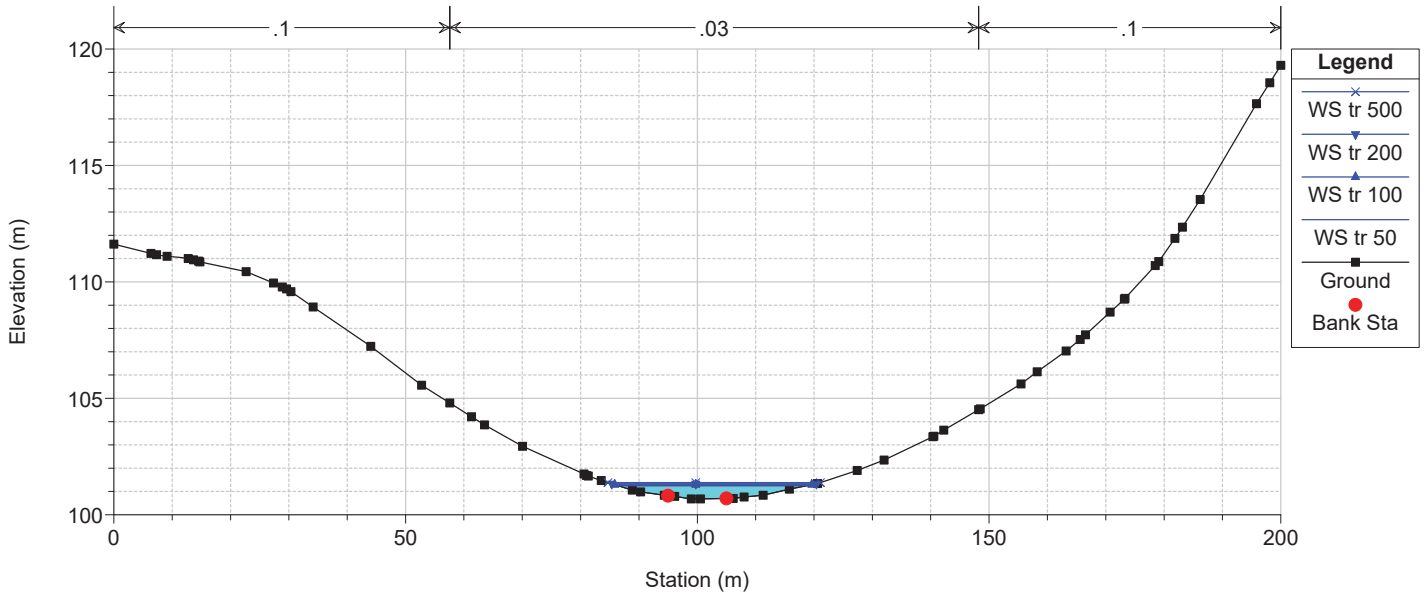
River = Rio Guidongias Reach = Asta 1 RS = 7300 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

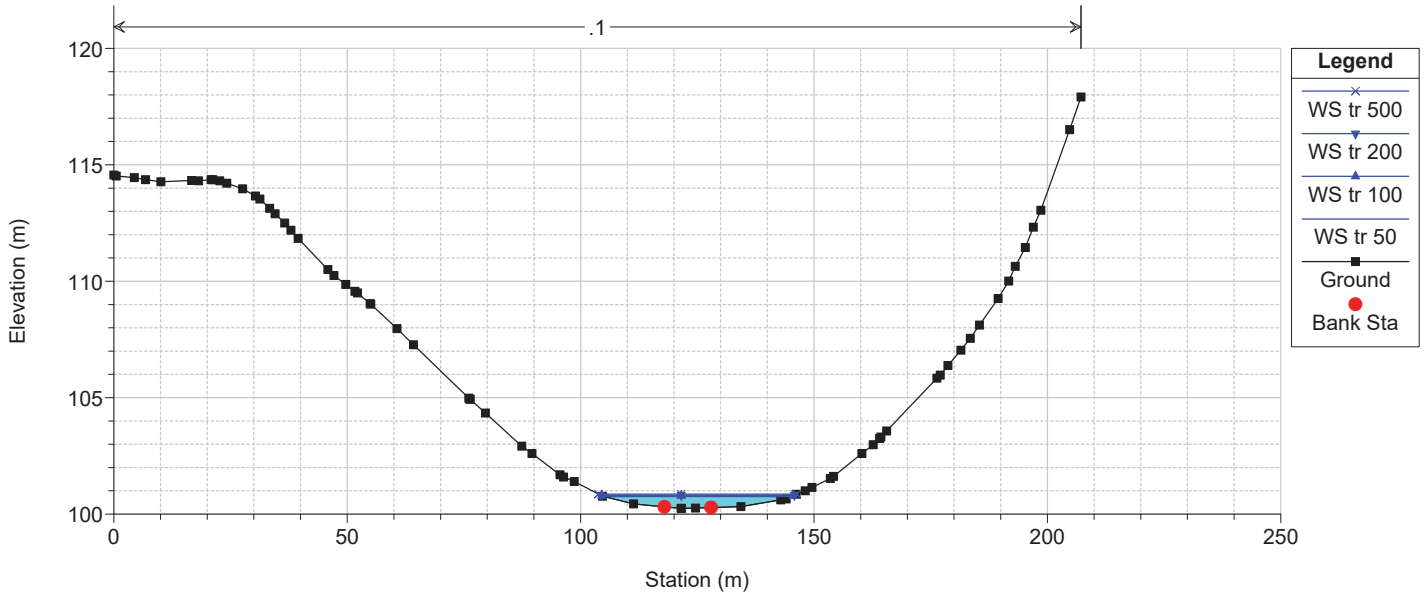
River = Rio Guidongias Reach = Asta 1 RS = 7200 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

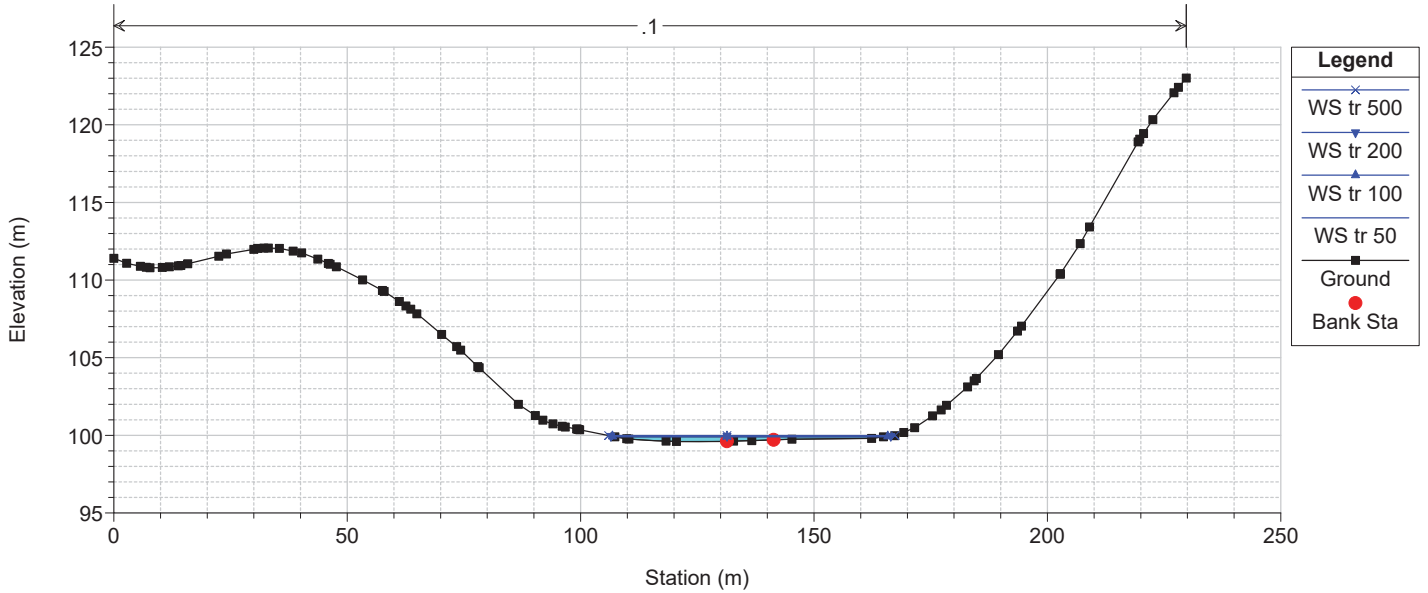
River = Rio Guidongias Reach = Asta 1 RS = 7164.761 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

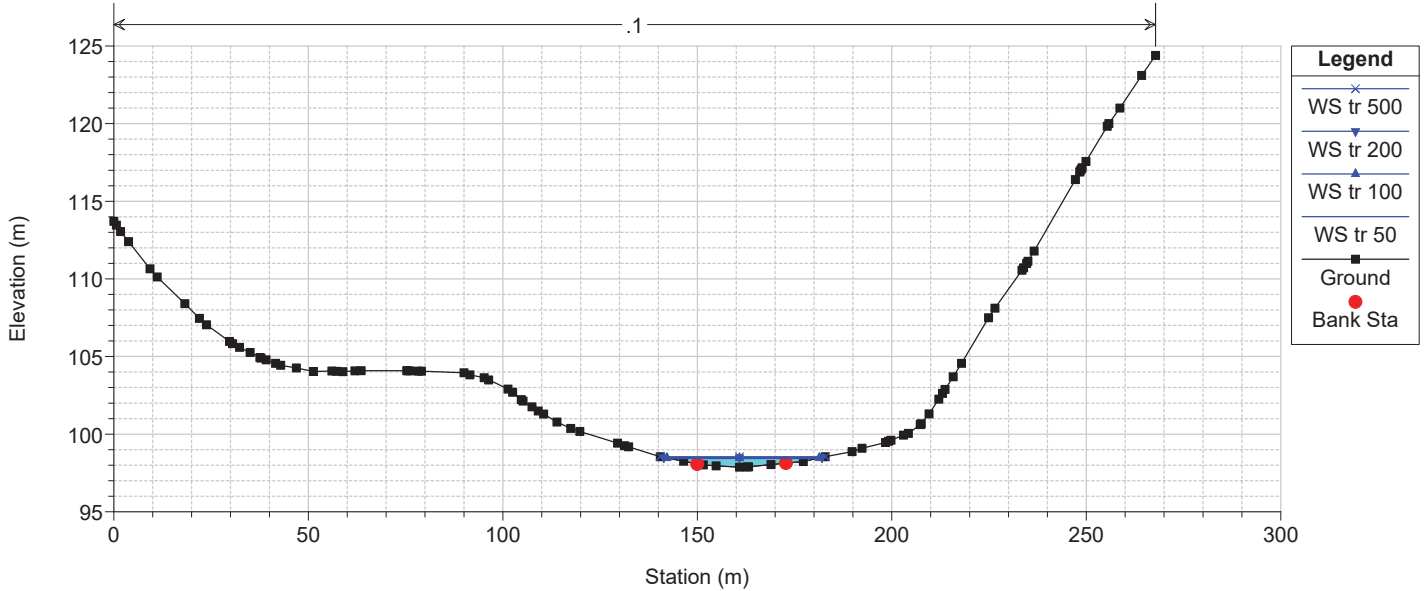
River = Rio Guidongias Reach = Asta 1 RS = 7141.196 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

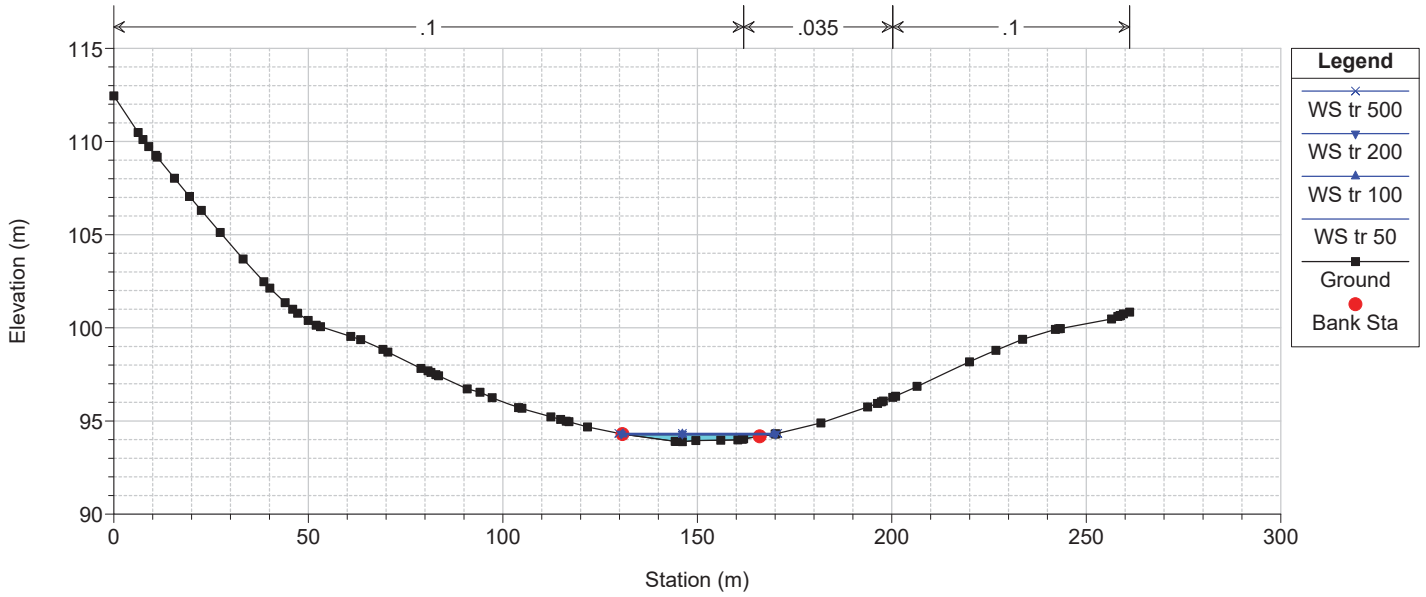
River = Rio Guidongias Reach = Asta 1 RS = 7100.815 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

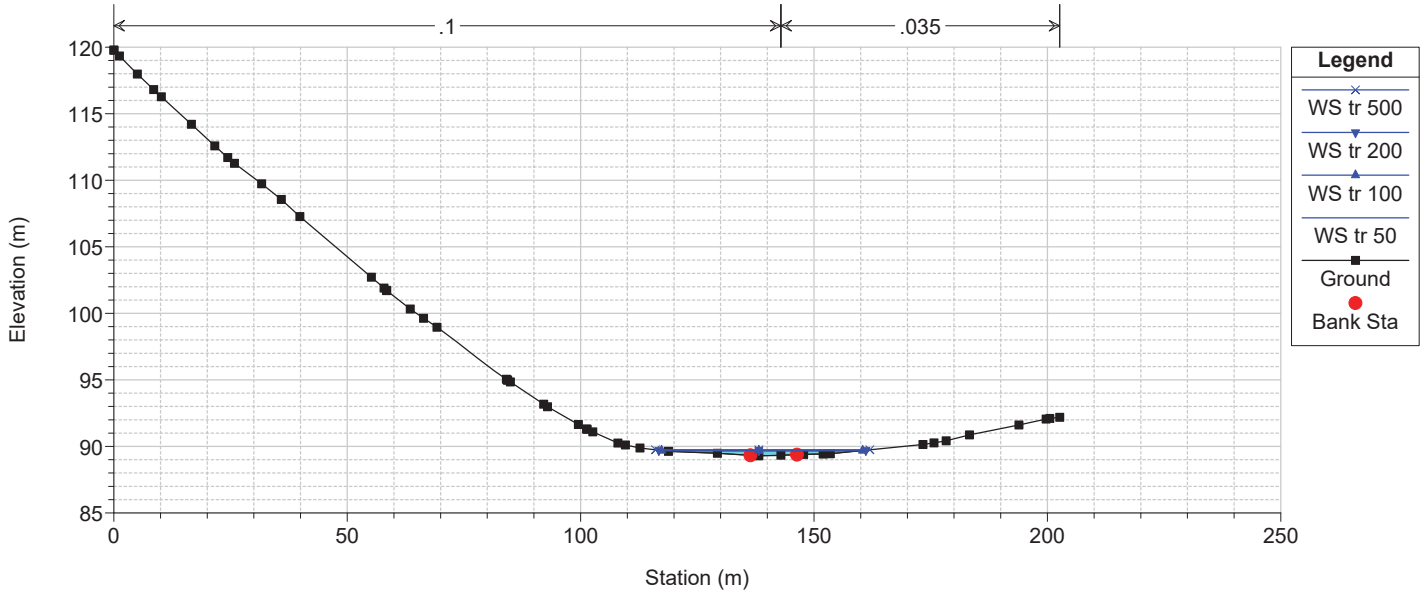
River = Rio Guidongias Reach = Asta 1 RS = 6995.575 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

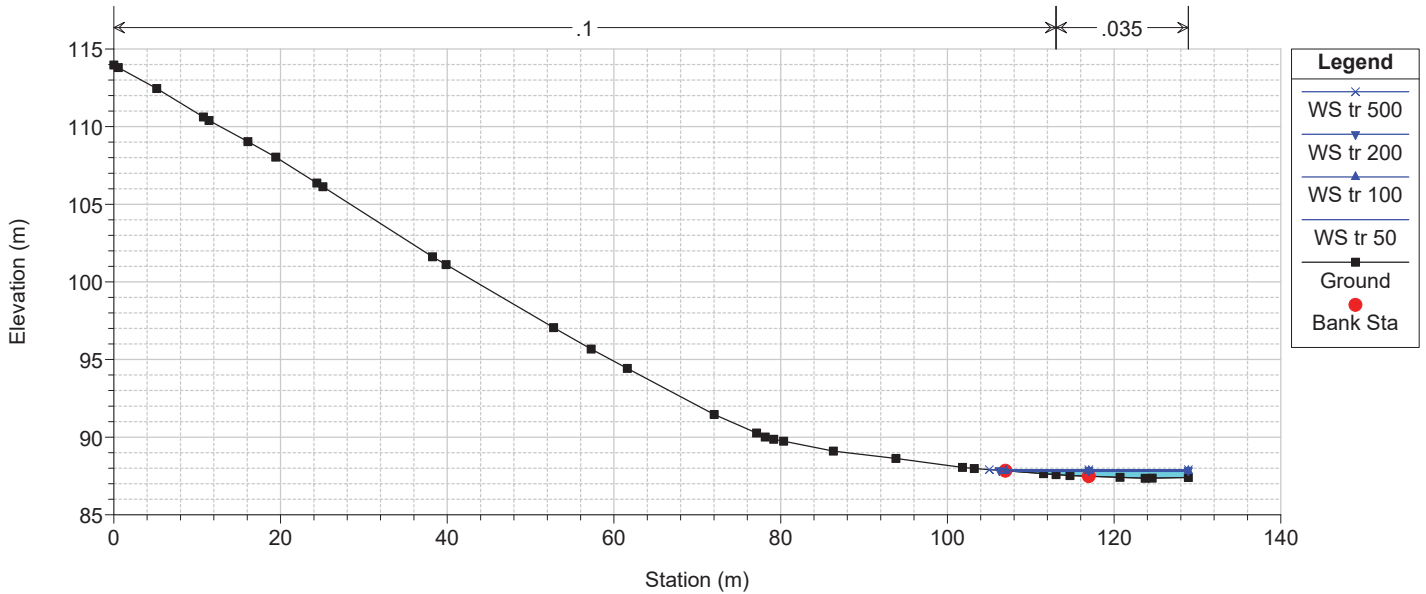
River = Rio Guidongias Reach = Asta 1 RS = 6901.316 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

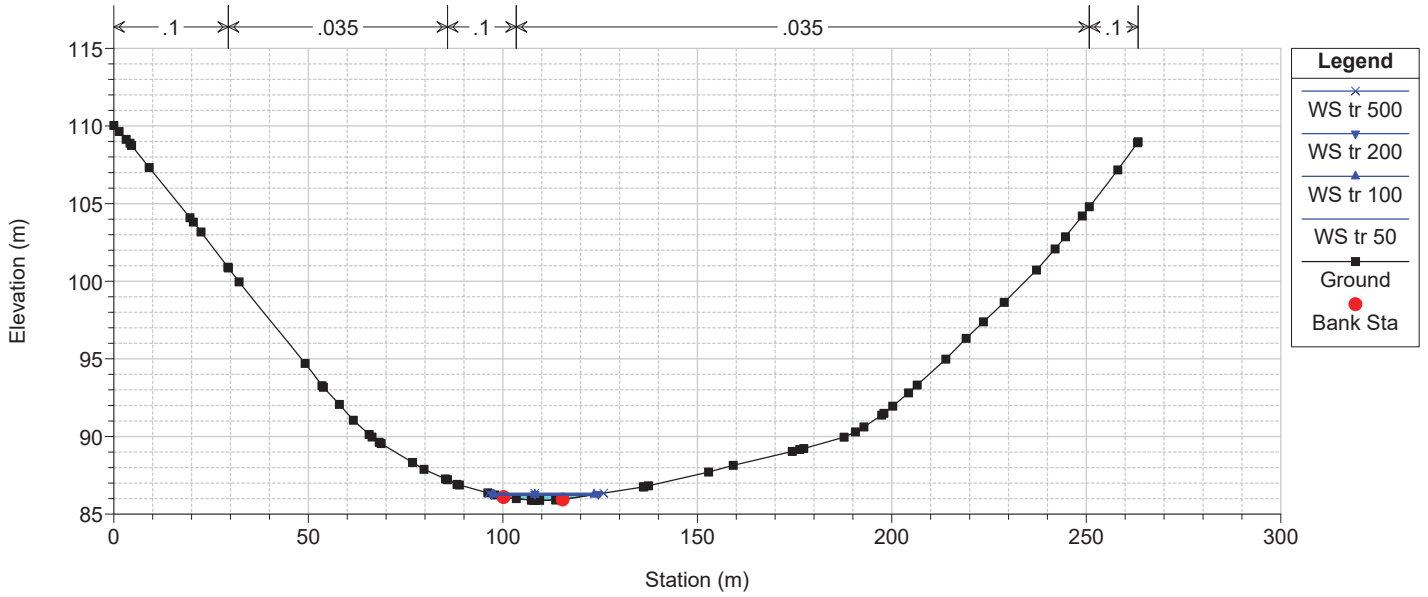
River = Rio Guidongias Reach = Asta 1 RS = 6818.769 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

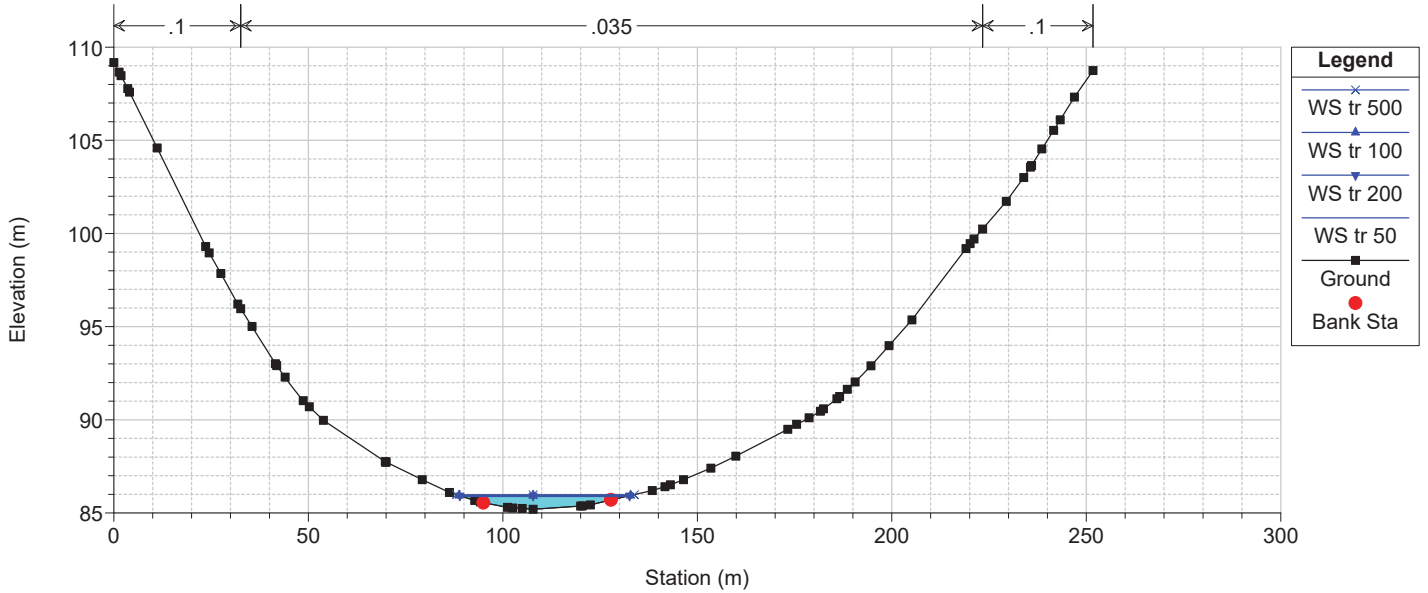
River = Rio Guidongias Reach = Asta 2 - 3 RS = 6745.172 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

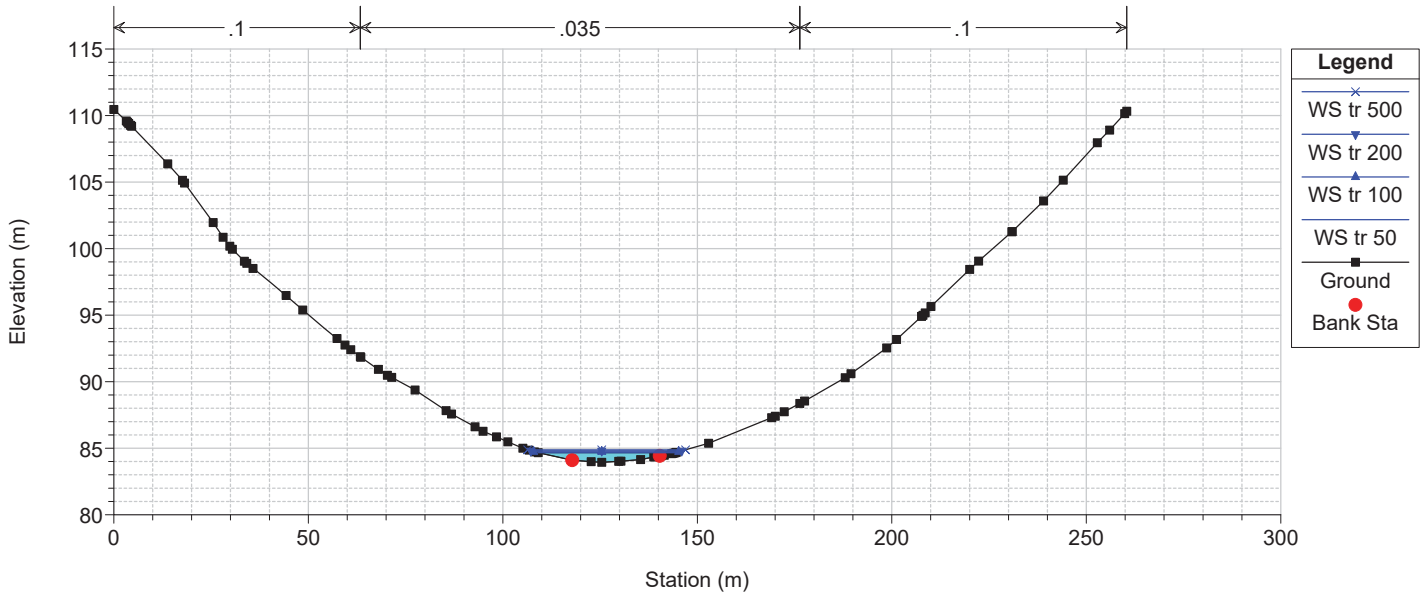
River = Rio Guidongias Reach = Asta 2 - 3 RS = 6700.51 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

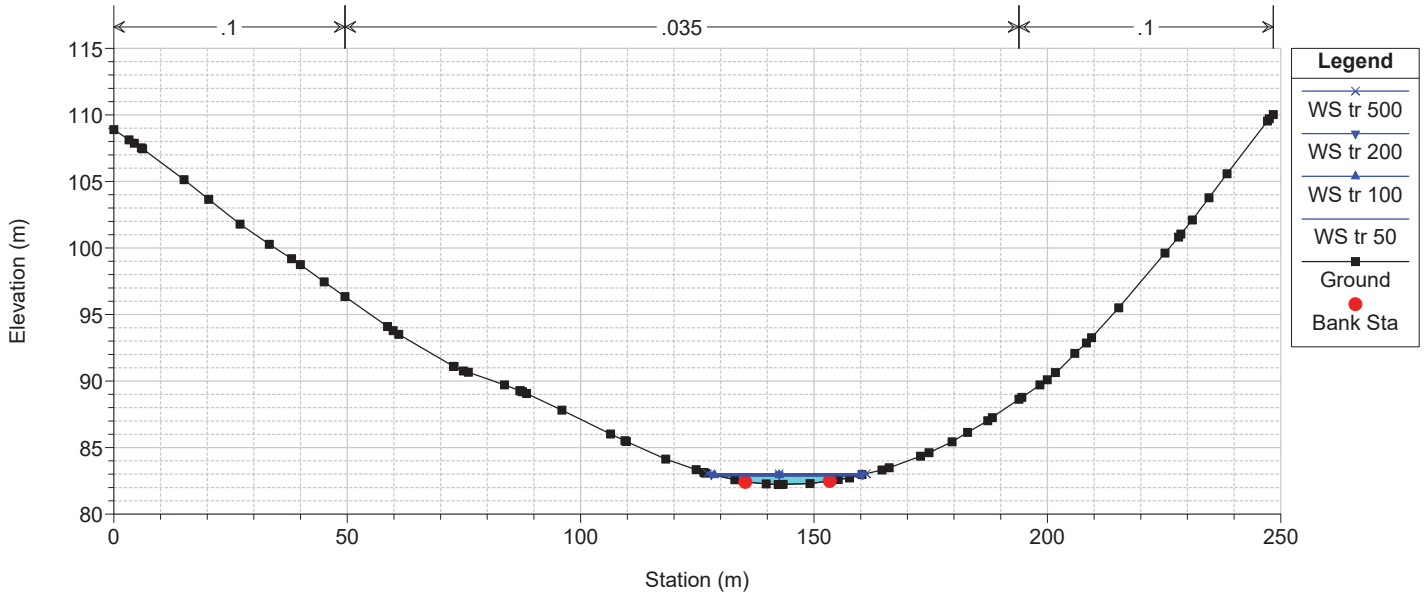
River = Rio Guidongias Reach = Asta 2 - 3 RS = 6600.263 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

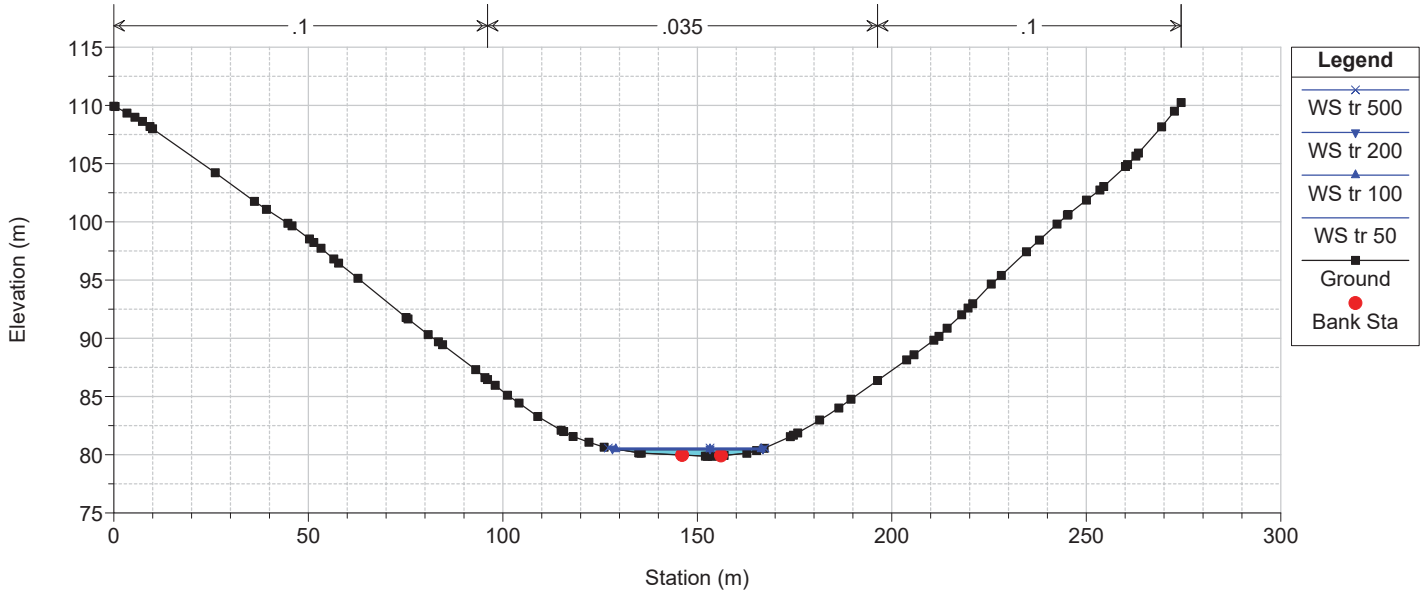
River = Rio Guidongias Reach = Asta 2 - 3 RS = 6499.702 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

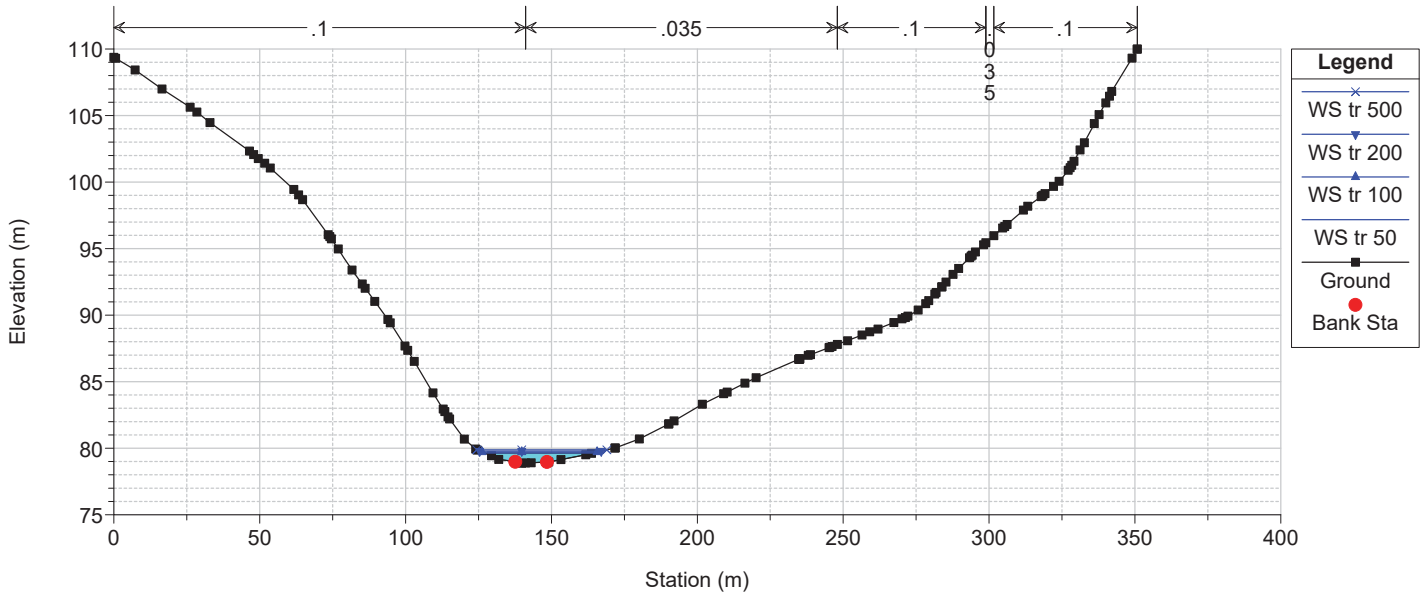
River = Rio Guidongias Reach = Asta 2 - 3 RS = 6400.004 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

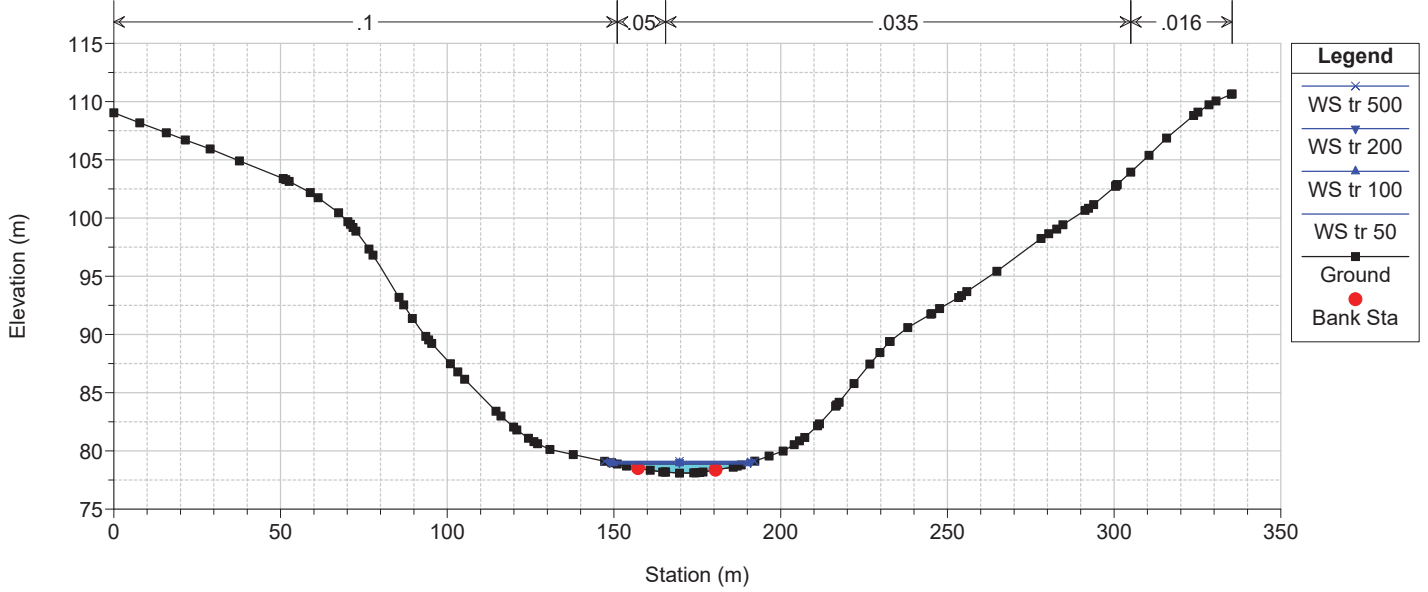
River = Rio Guidongias Reach = Asta 2 - 3 RS = 6333.508 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

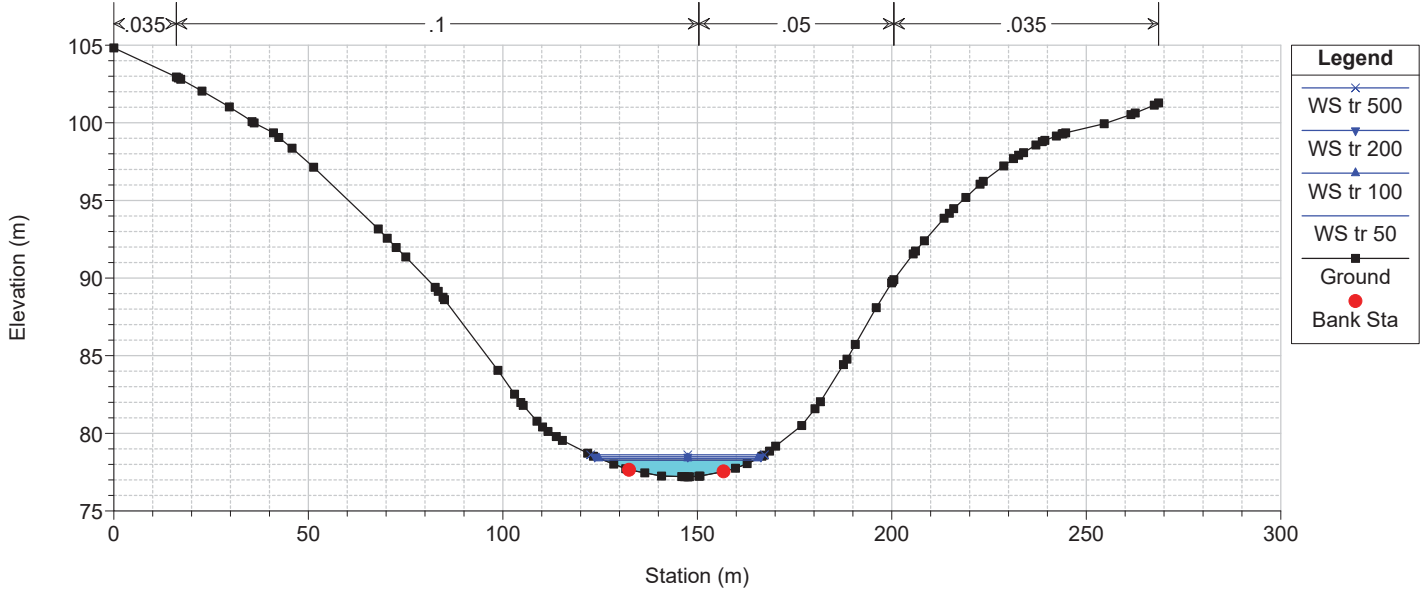
River = Rio Guidongias Reach = Asta 2 - 3 RS = 6271.83 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

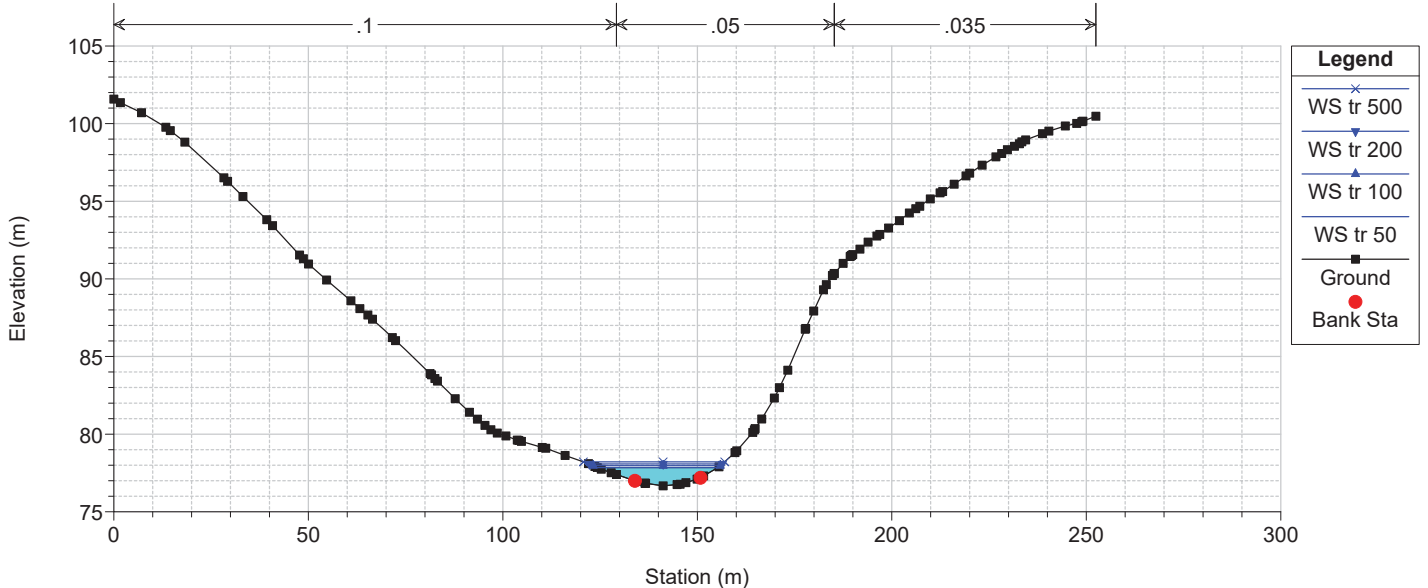
River = Rio Guidongias Reach = Asta 2 - 3 RS = 6208.721 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

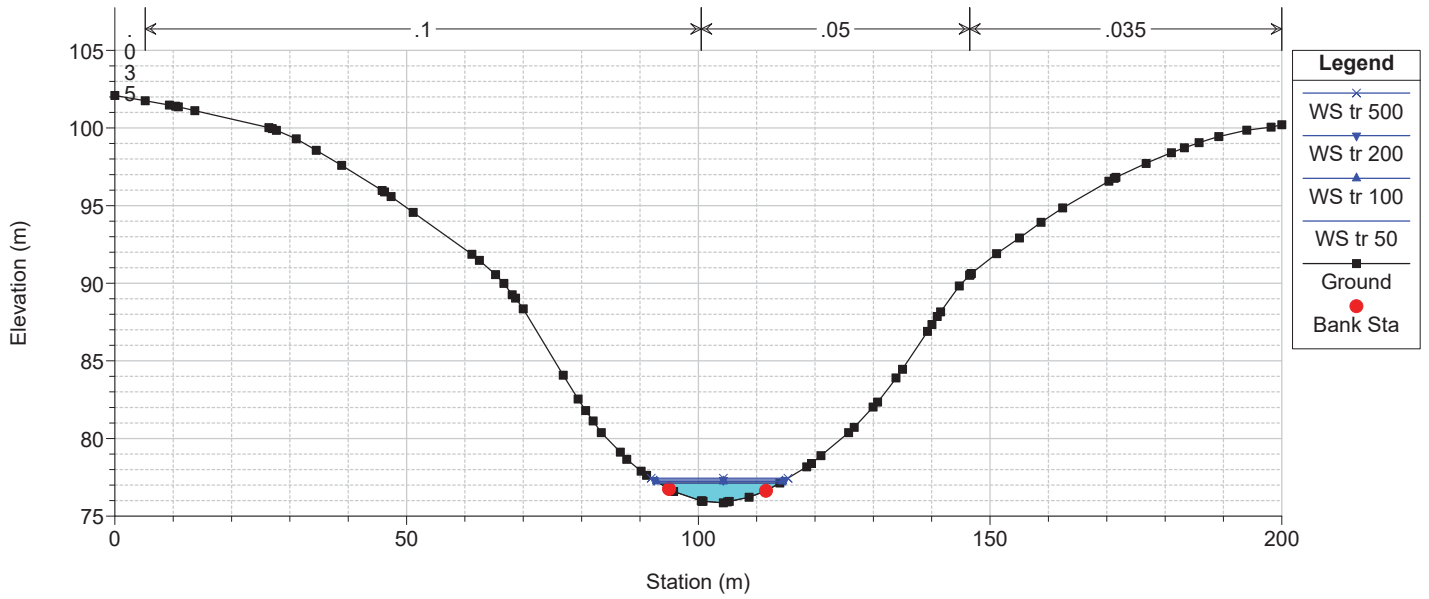
River = Rio Guidongias Reach = Asta 2 - 3 RS = 6163.792 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

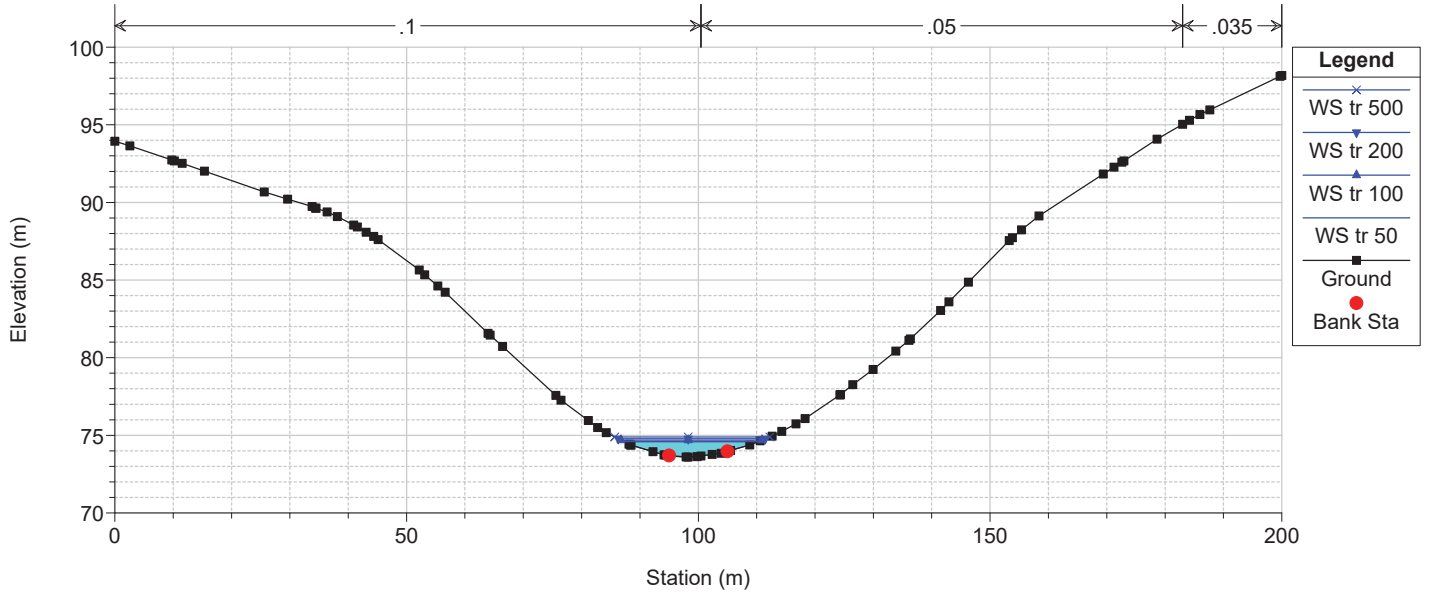
River = Rio Guidongias Reach = Asta 2 - 3 RS = 6100 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

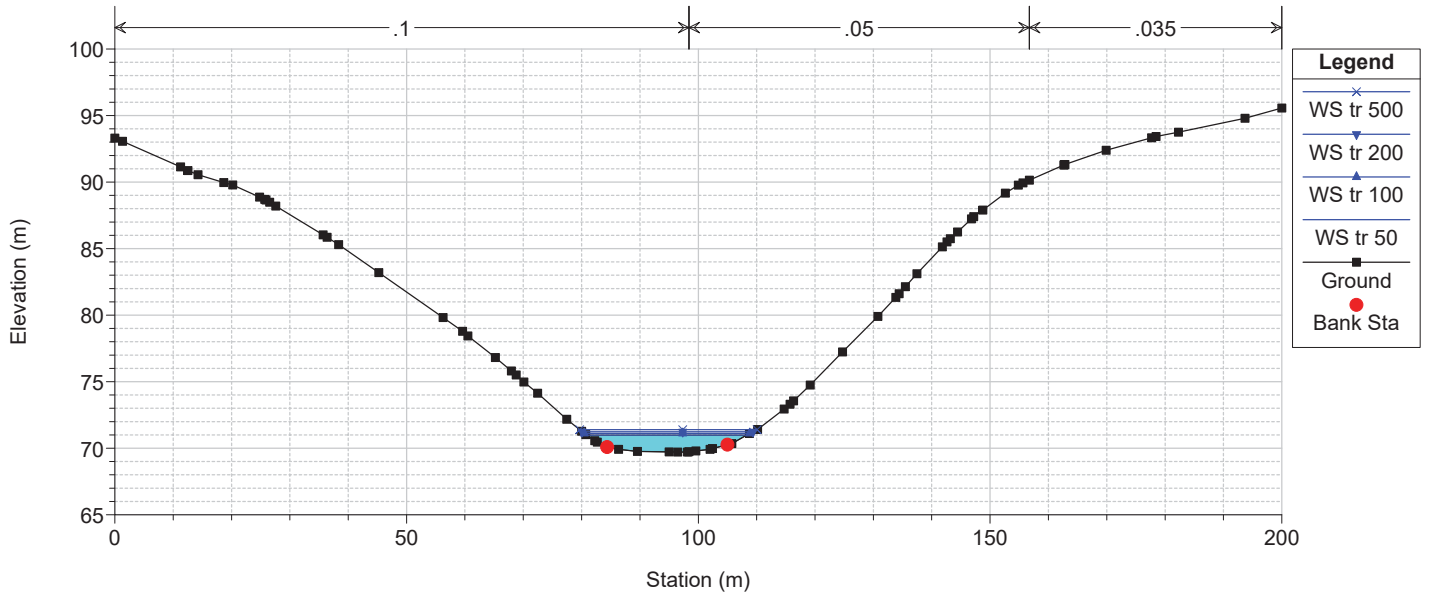
River = Rio Guidongias Reach = Asta 2 - 3 RS = 6000 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

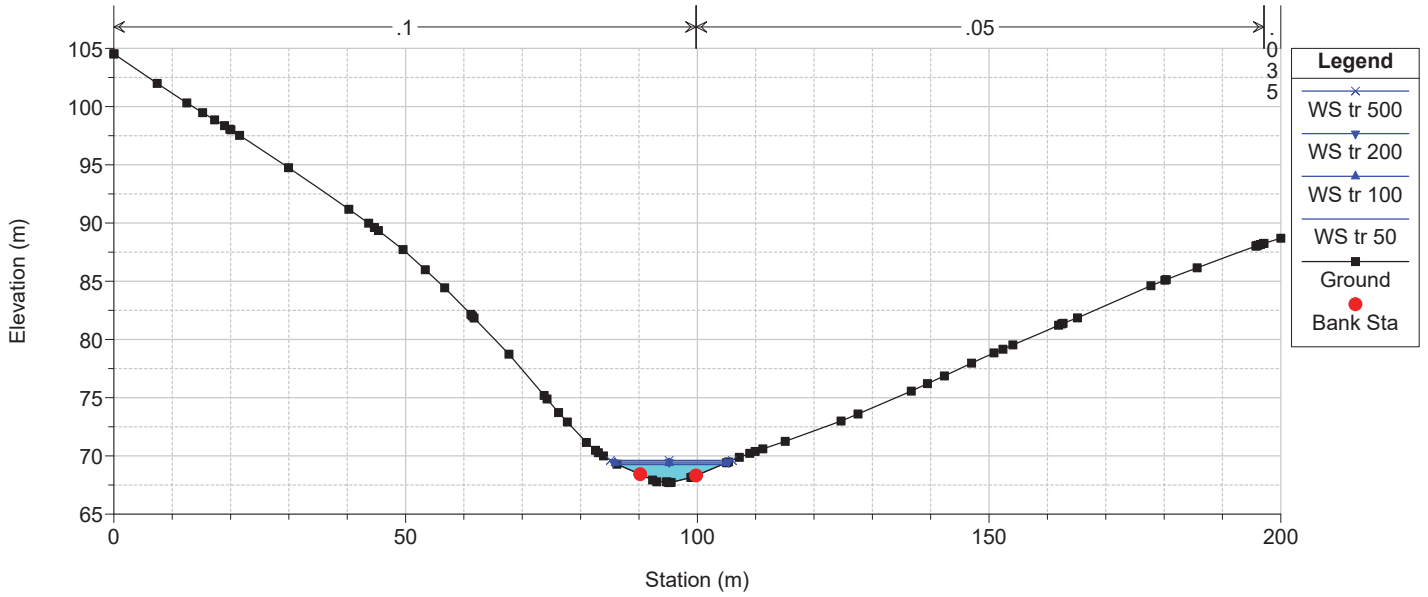
River = Rio Guidongias Reach = Asta 2 - 3 RS = 5900 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

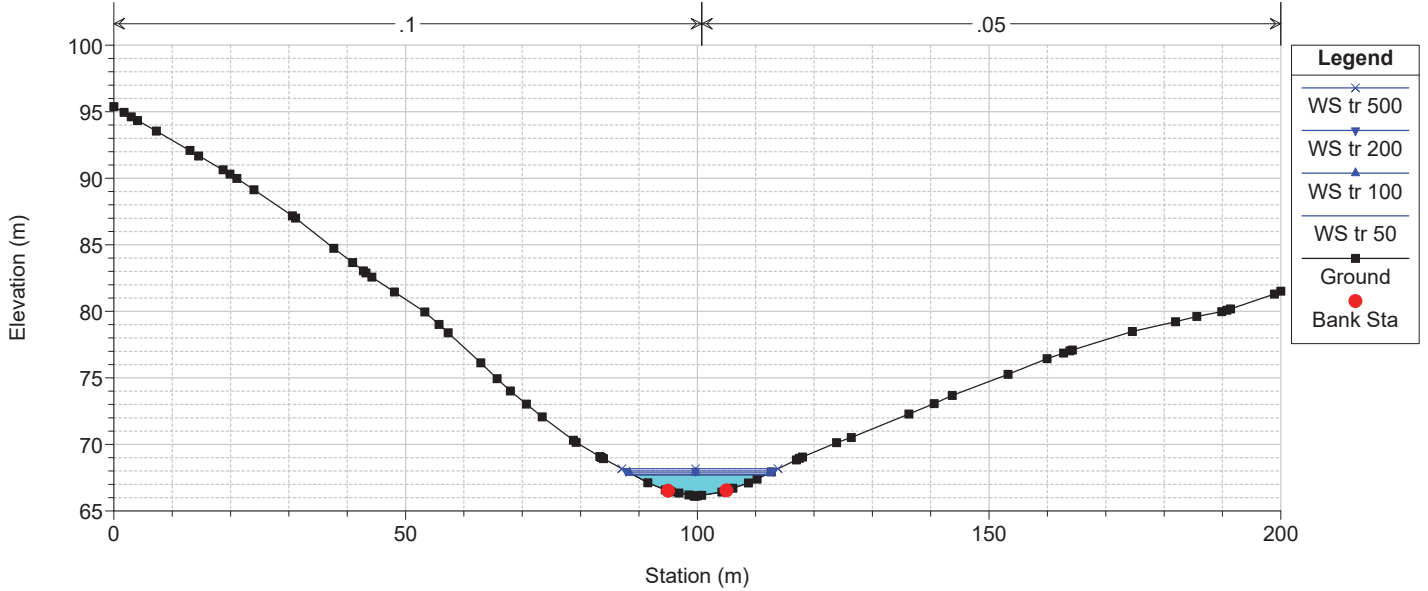
River = Rio Guidongias Reach = Asta 2 - 3 RS = 5800 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

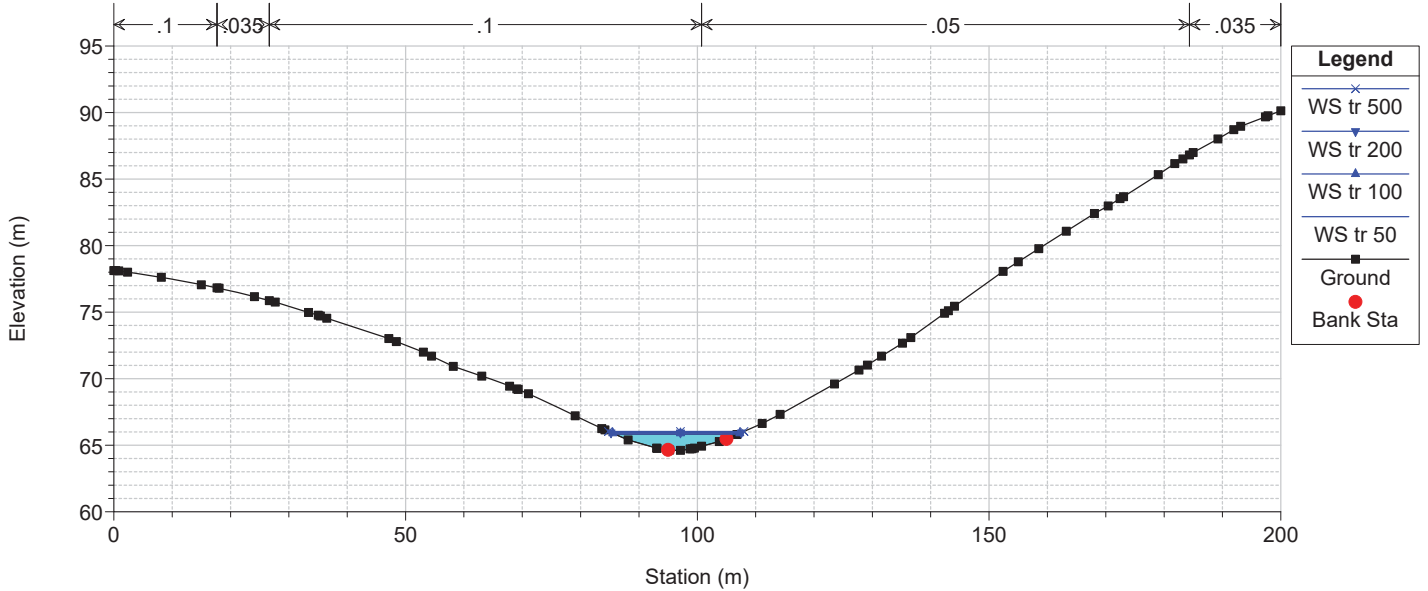
River = Rio Guidongias Reach = Asta 2 - 3 RS = 5700 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

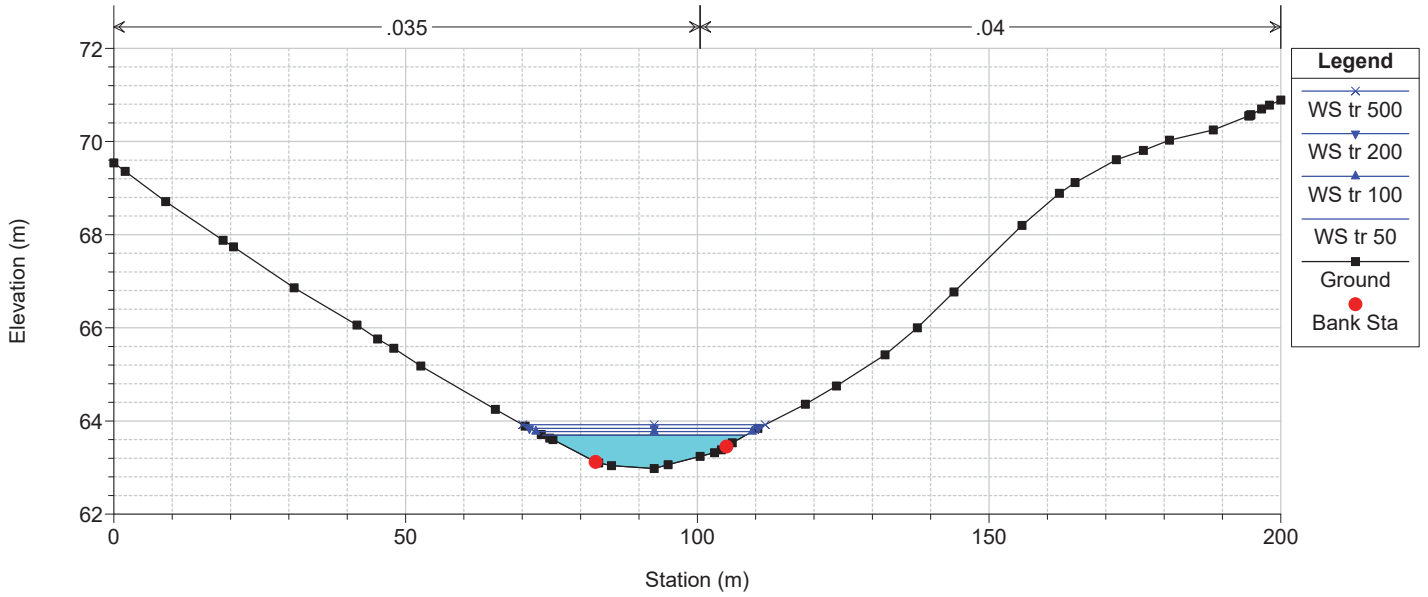
River = Rio Guidongias Reach = Asta 2 - 3 RS = 5600 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

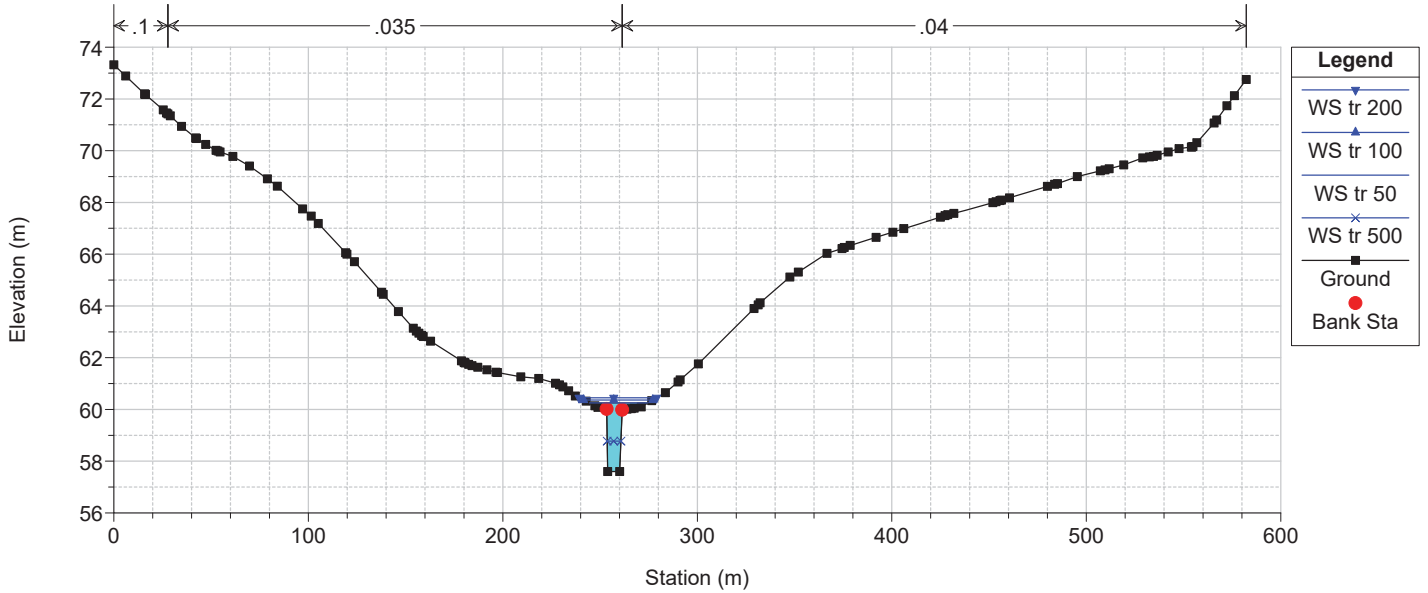
River = Rio Guidongias Reach = Asta 2 - 3 RS = 5500 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

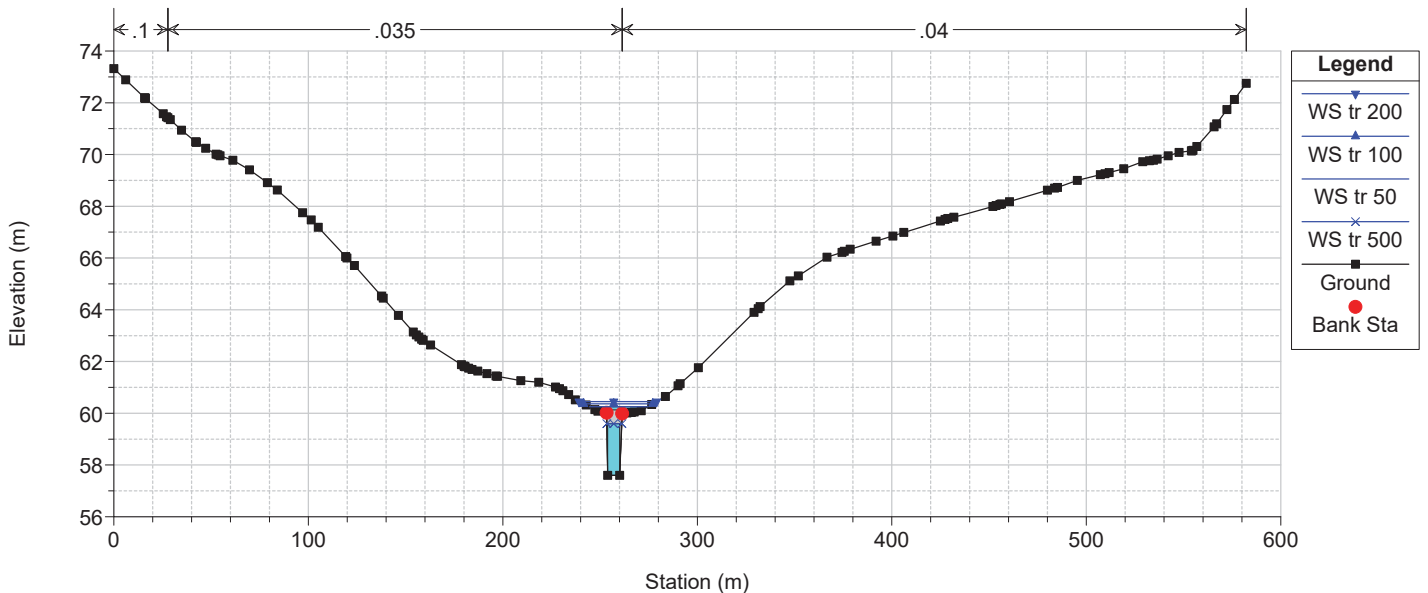
River = Rio Guidongias Reach = Asta 2 - 3 RS = 5397.388 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

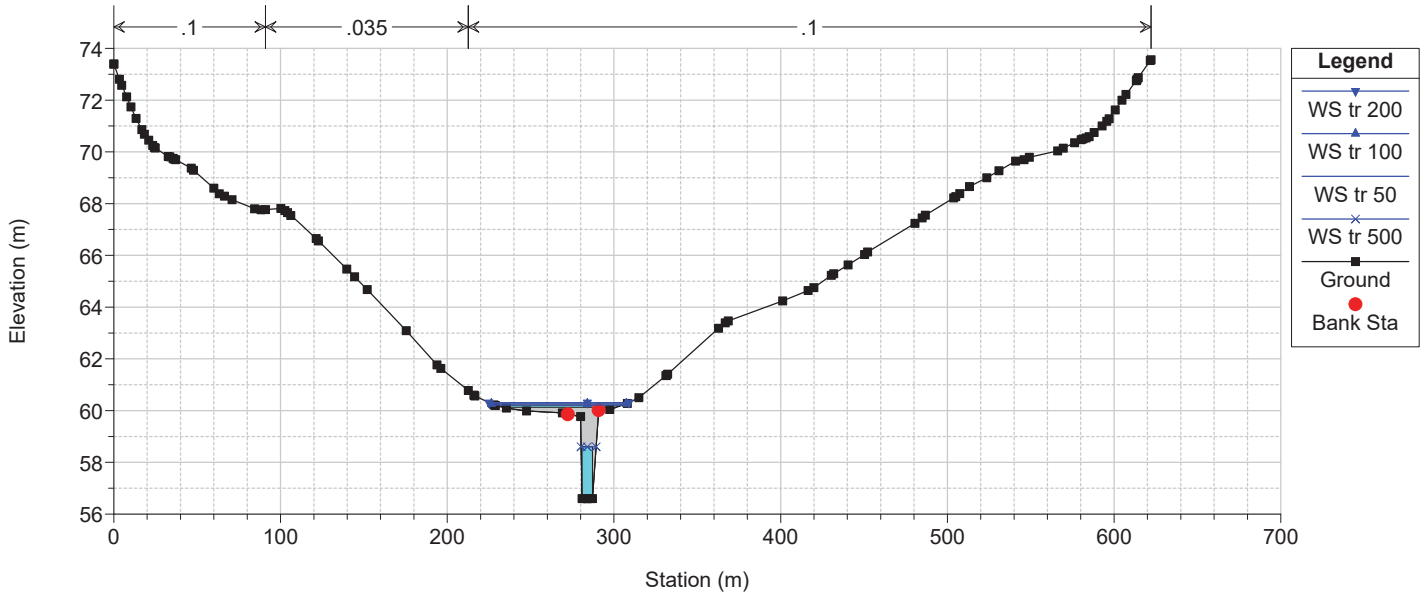
River = Rio Guidongias Reach = Asta 2 - 3 RS = 5378.653 Culv COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

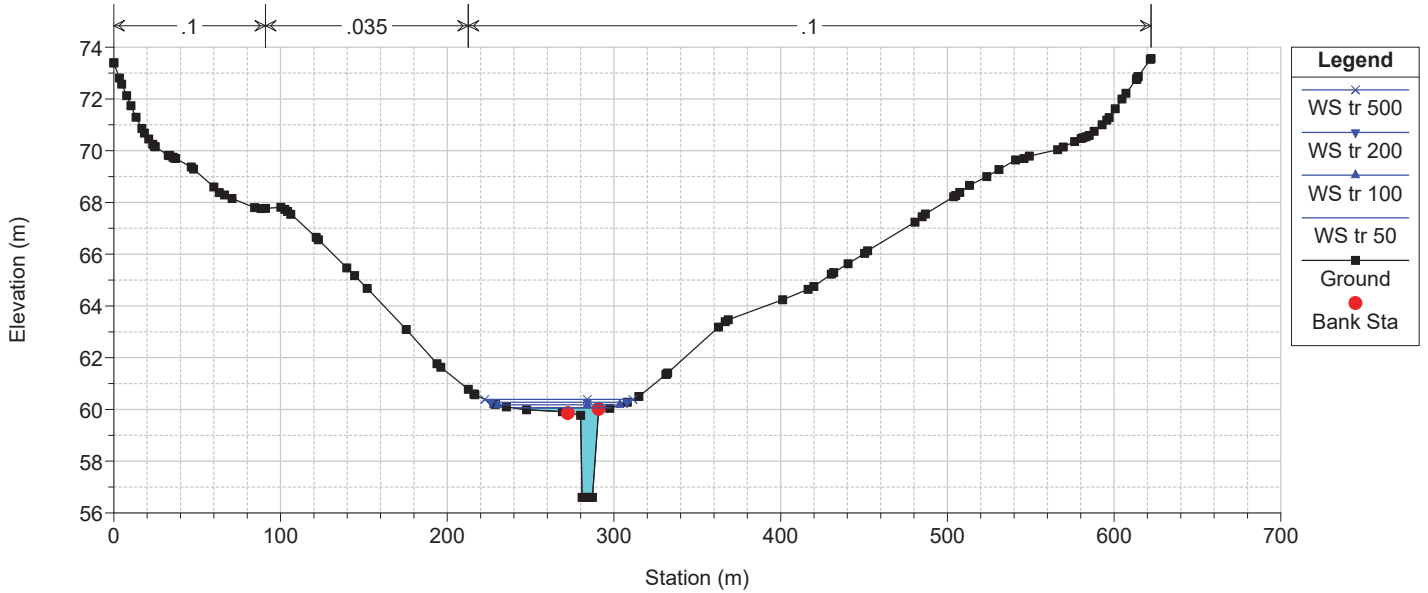
River = Rio Guidongias Reach = Asta 2 - 3 RS = 5378.653 Culv COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

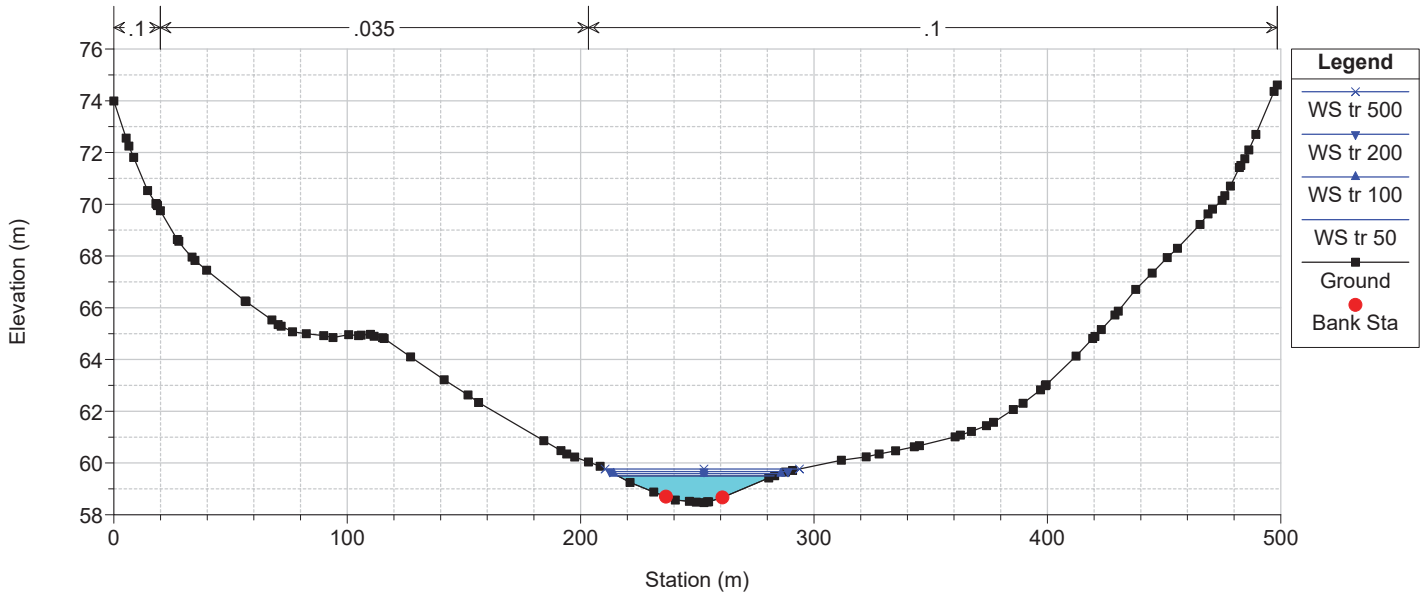
River = Rio Guidongias Reach = Asta 2 - 3 RS = 5358.855 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

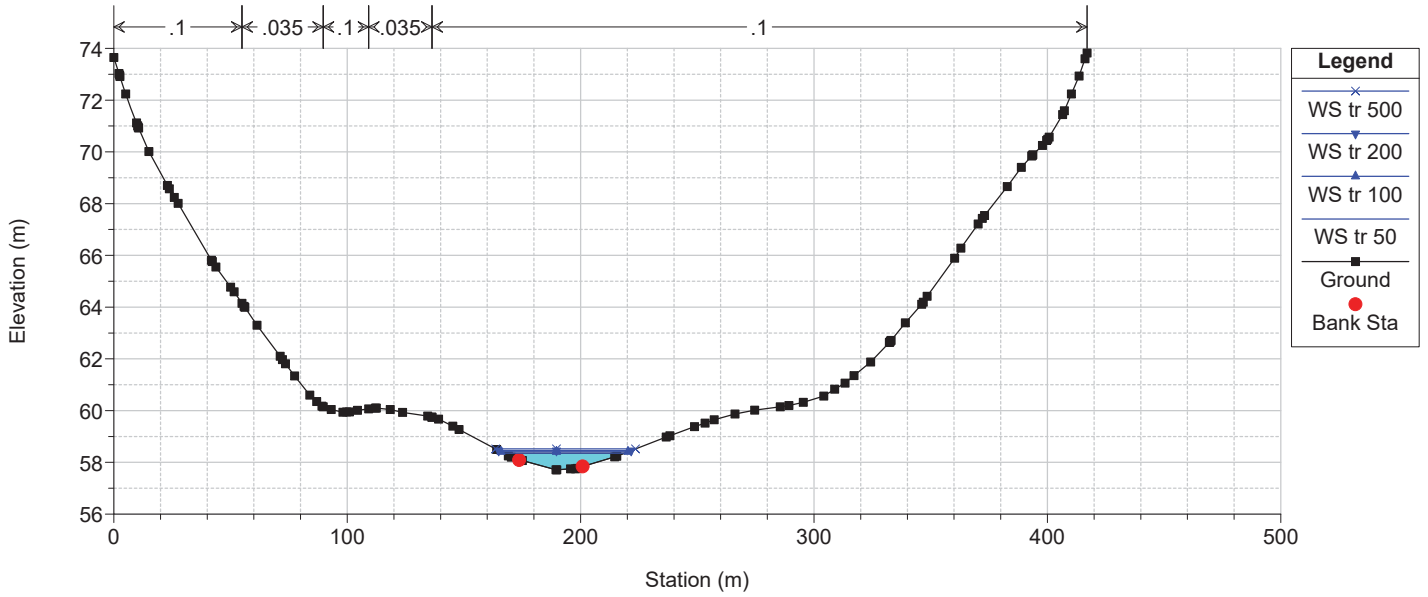
River = Rio Guidongias Reach = Asta 2 - 3 RS = 5290.063 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

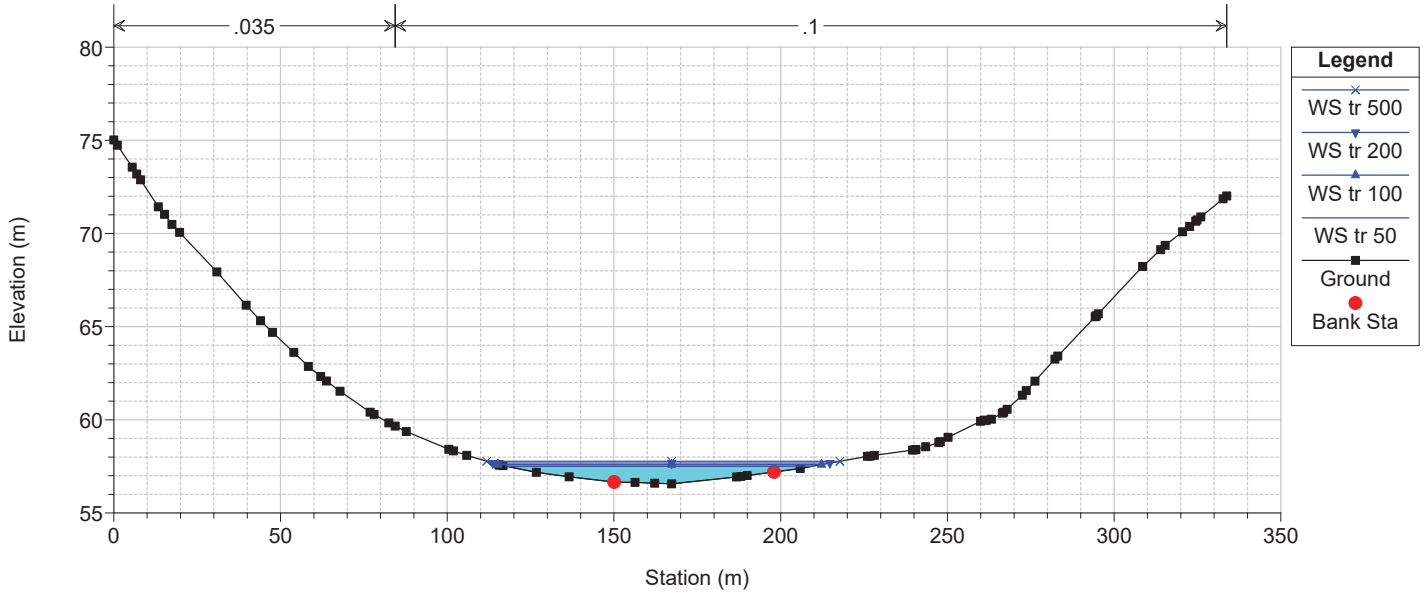
River = Rio Guidongias Reach = Asta 2 - 3 RS = 5246.534 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

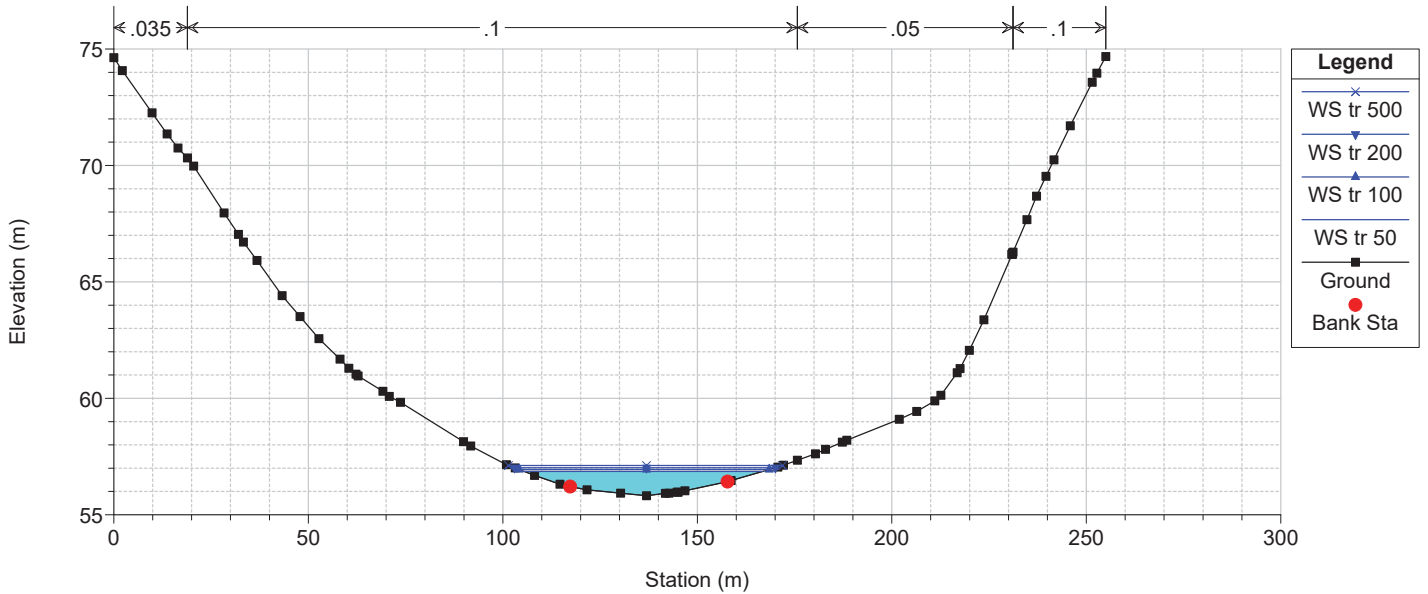
River = Rio Guidongias Reach = Asta 2 - 3 RS = 5193.645 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

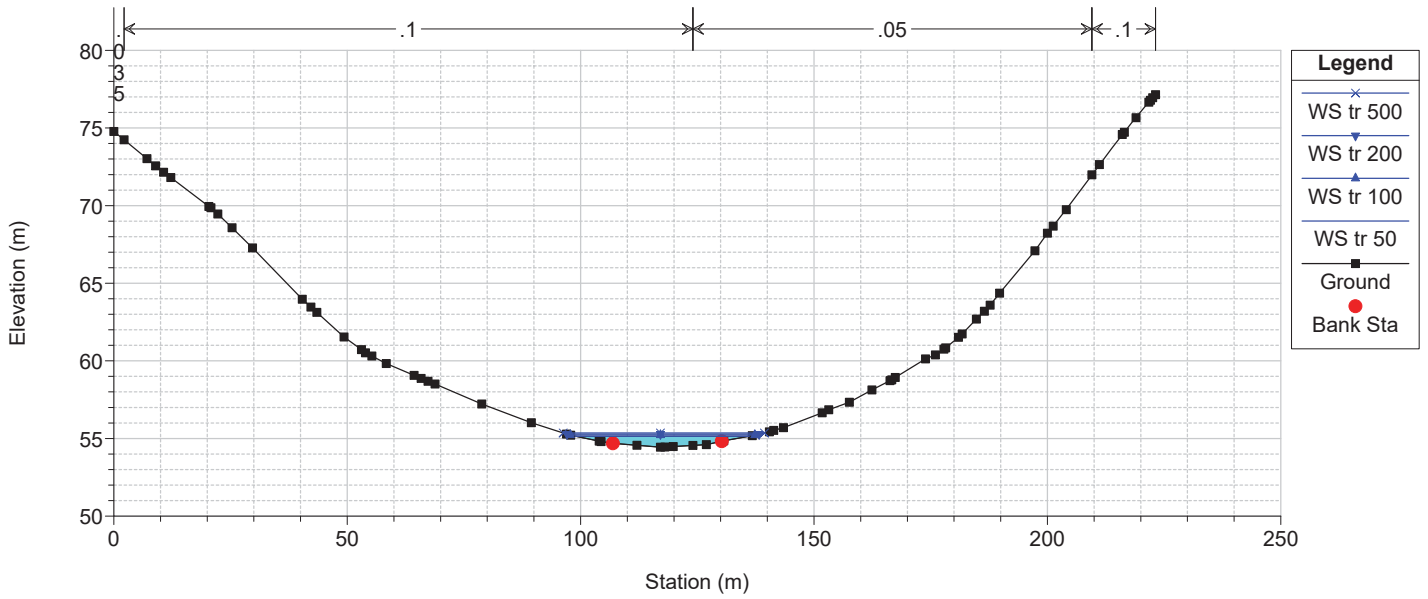
River = Rio Guidongias Reach = Asta 2 - 3 RS = 5121.535 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

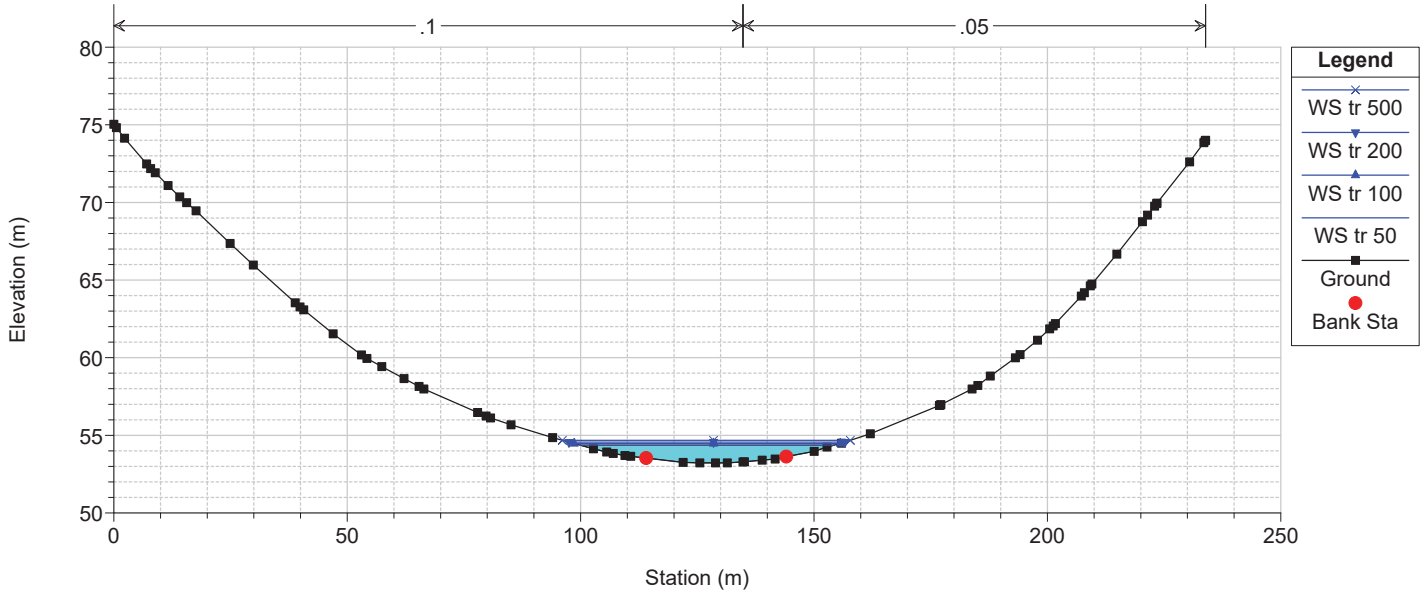
River = Rio Guidongias Reach = Asta 2 - 3 RS = 5054.055 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

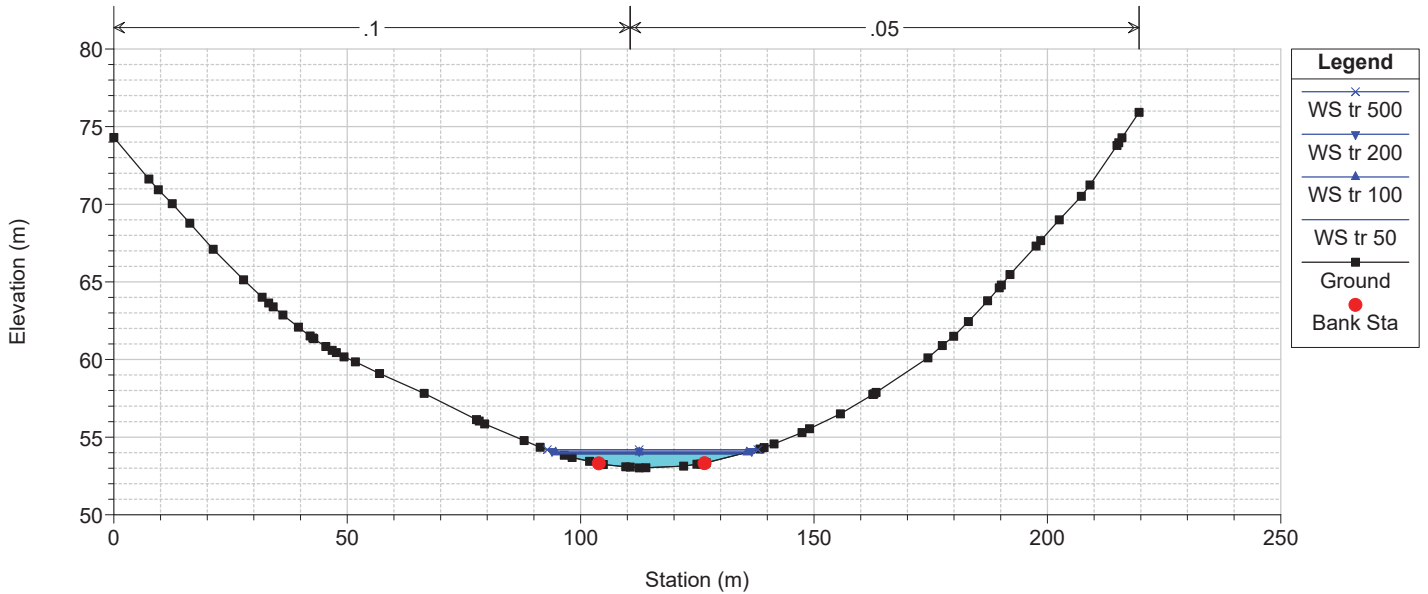
River = Rio Guidongias Reach = Asta 2 - 3 RS = 4999.683 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

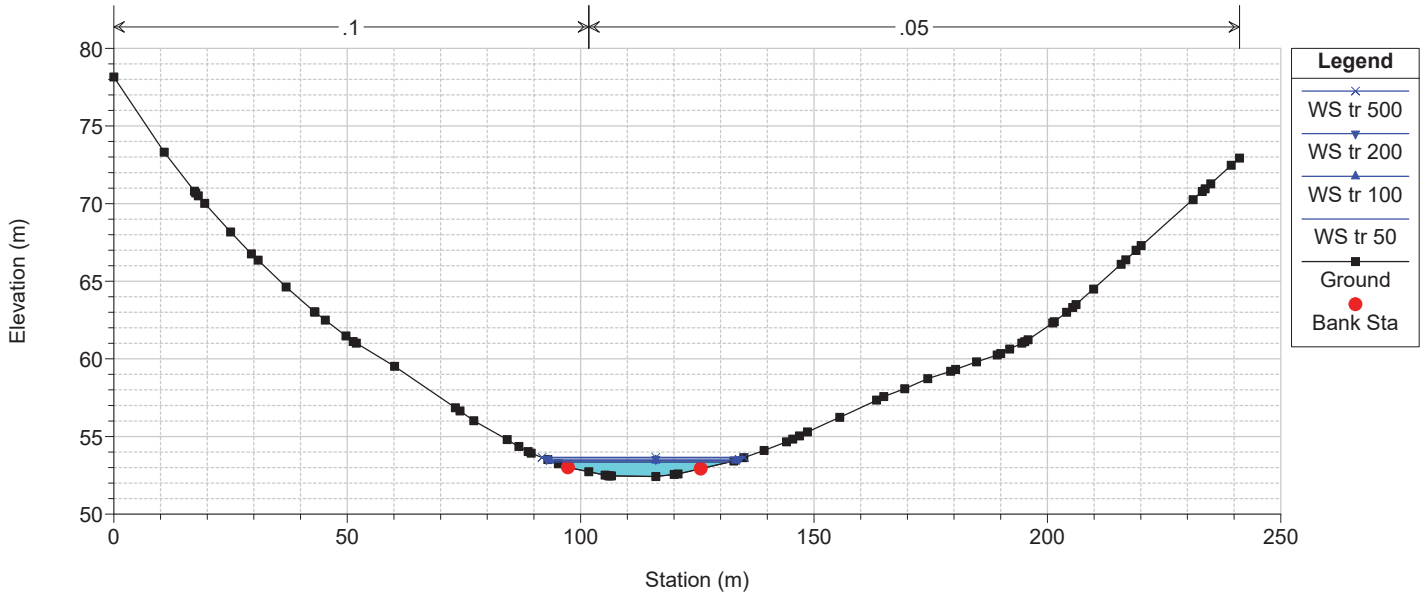
River = Rio Guidongias Reach = Asta 2 - 3 RS = 4951.347 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

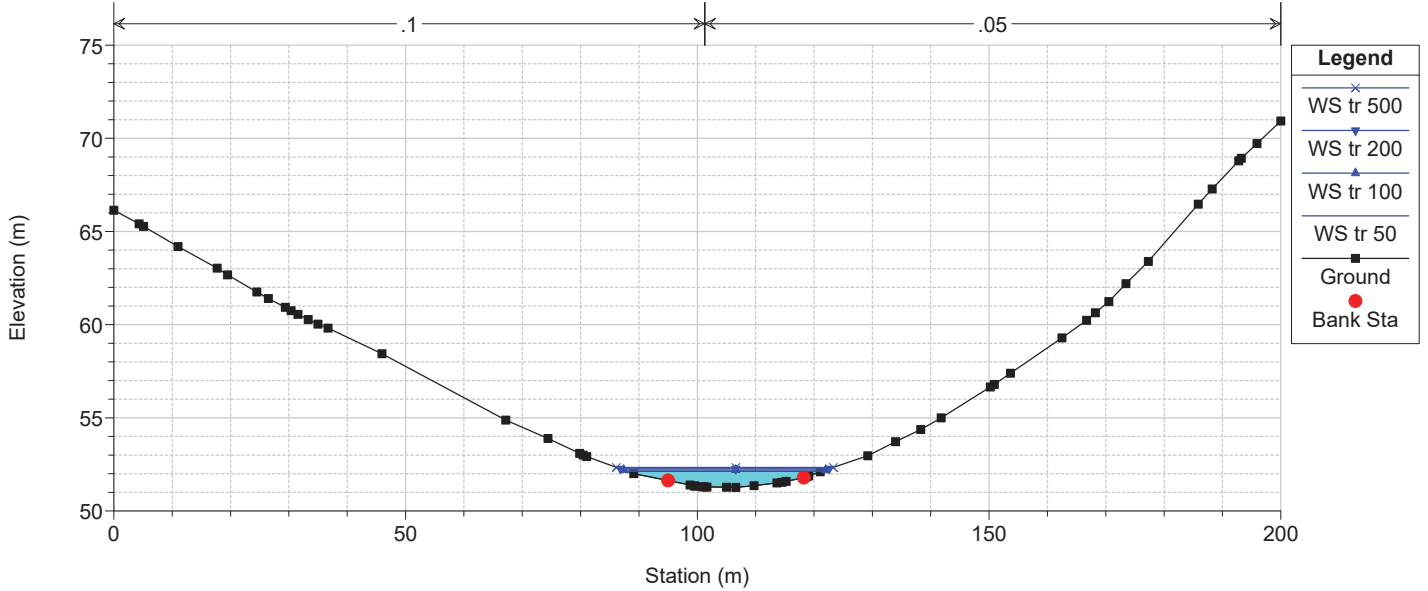
River = Rio Guidongias Reach = Asta 2 - 3 RS = 4893.191 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

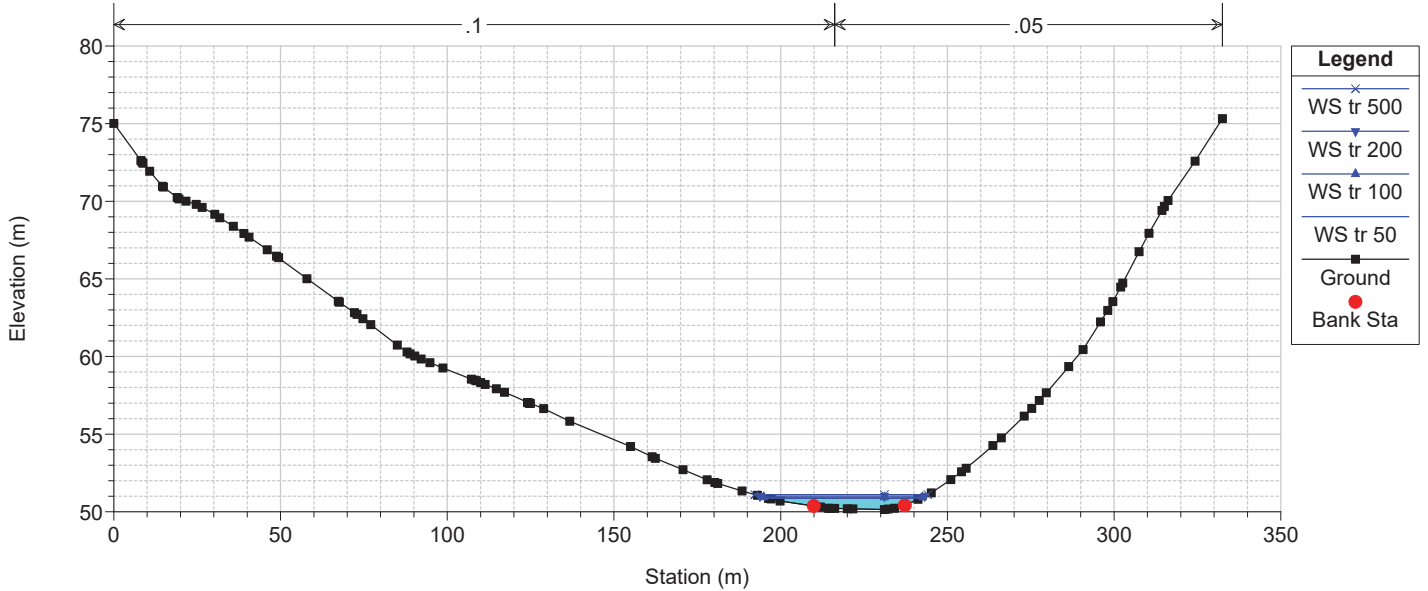
River = Rio Guidongias Reach = Asta 2 - 3 RS = 4800 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

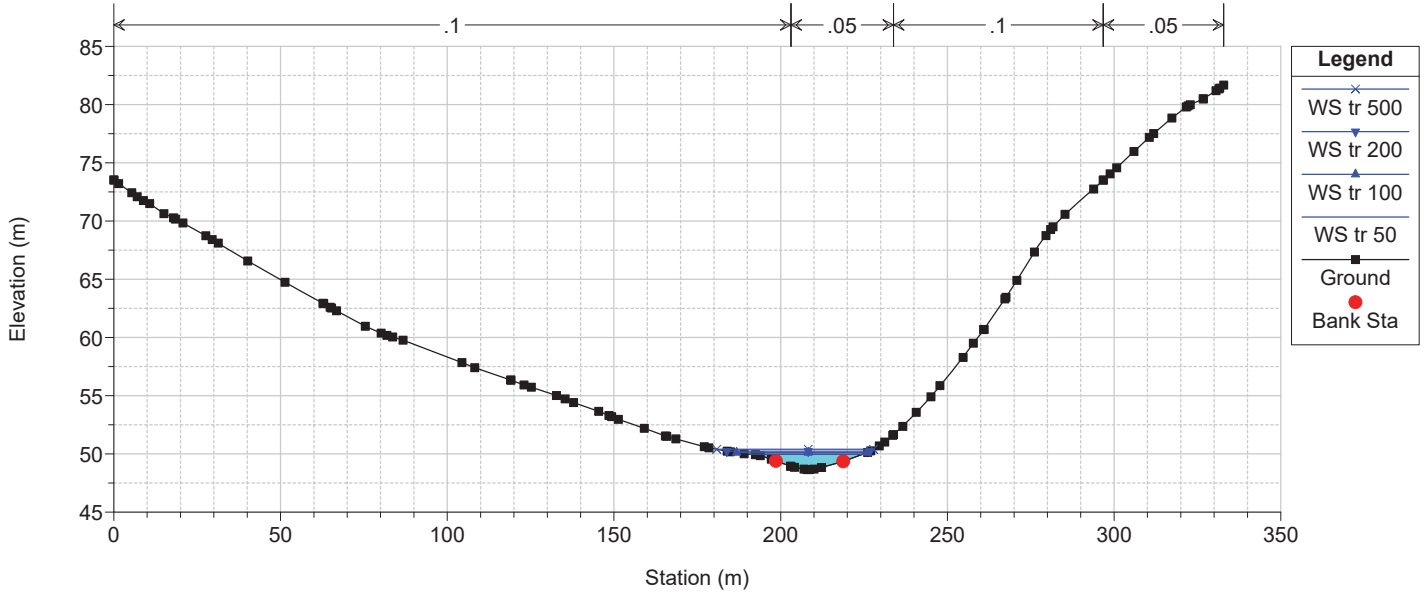
River = Rio Guidongias Reach = Asta 2 - 3 RS = 4728.421 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

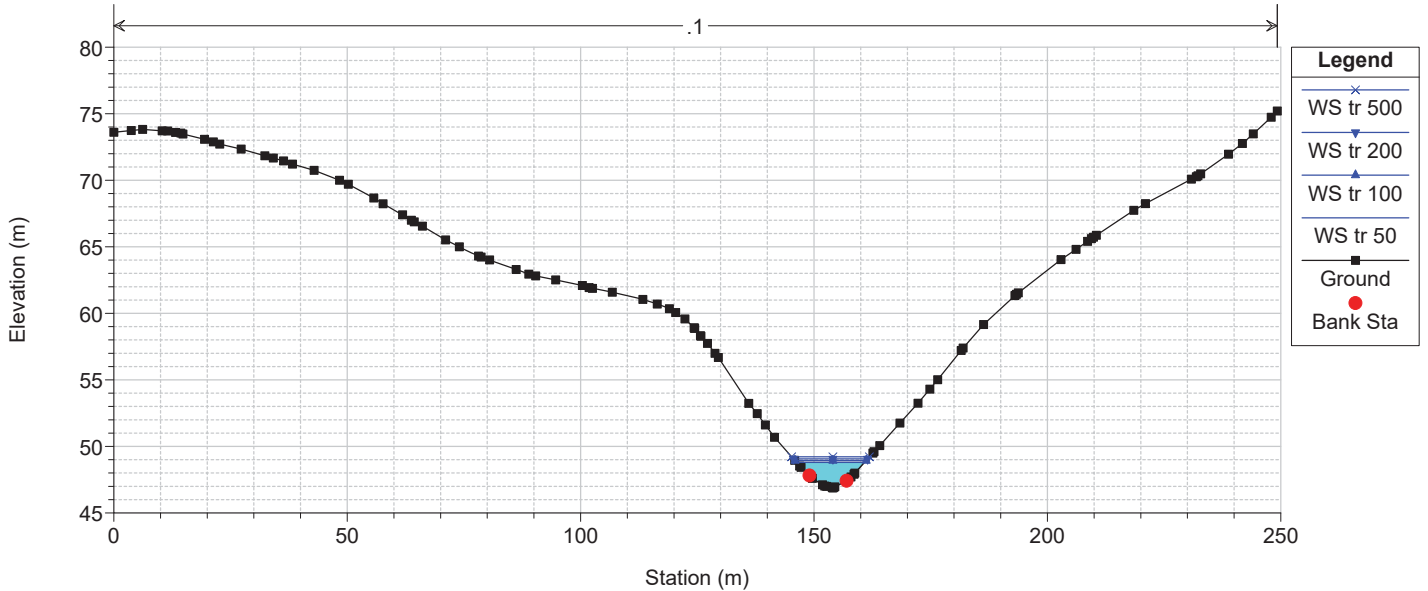
River = Rio Guidongias Reach = Asta 2 - 3 RS = 4637.86 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

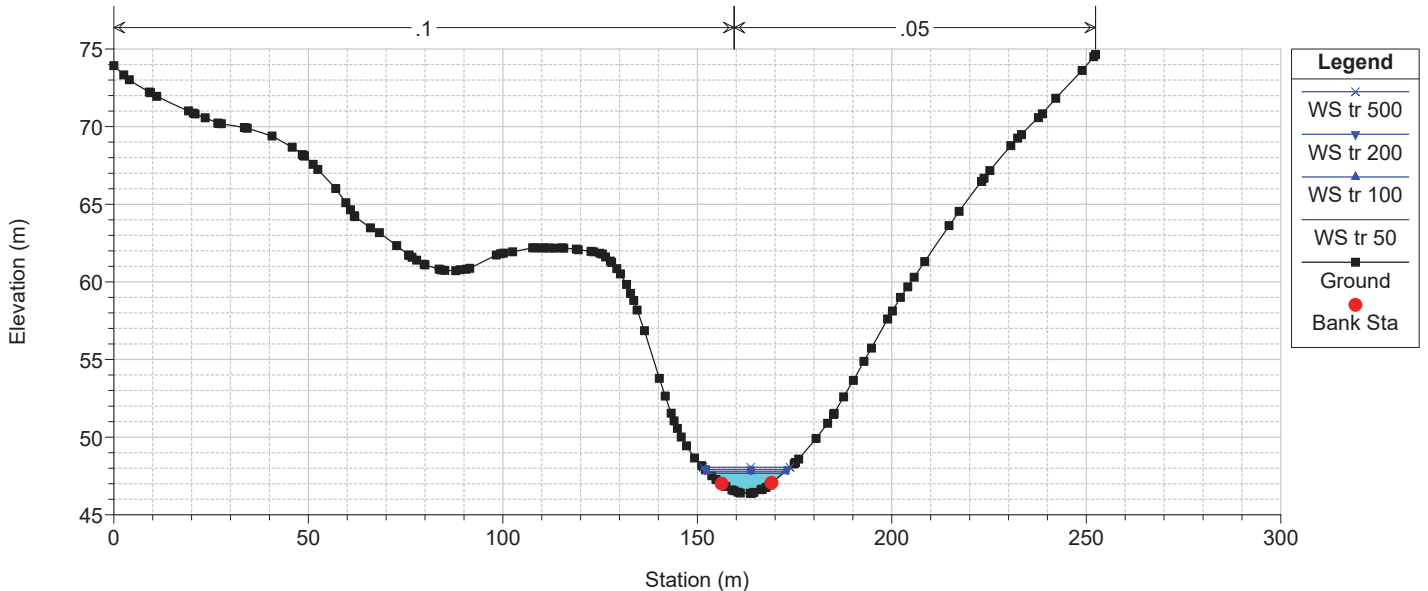
River = Rio Guidongias Reach = Asta 2 - 3 RS = 4551.124 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

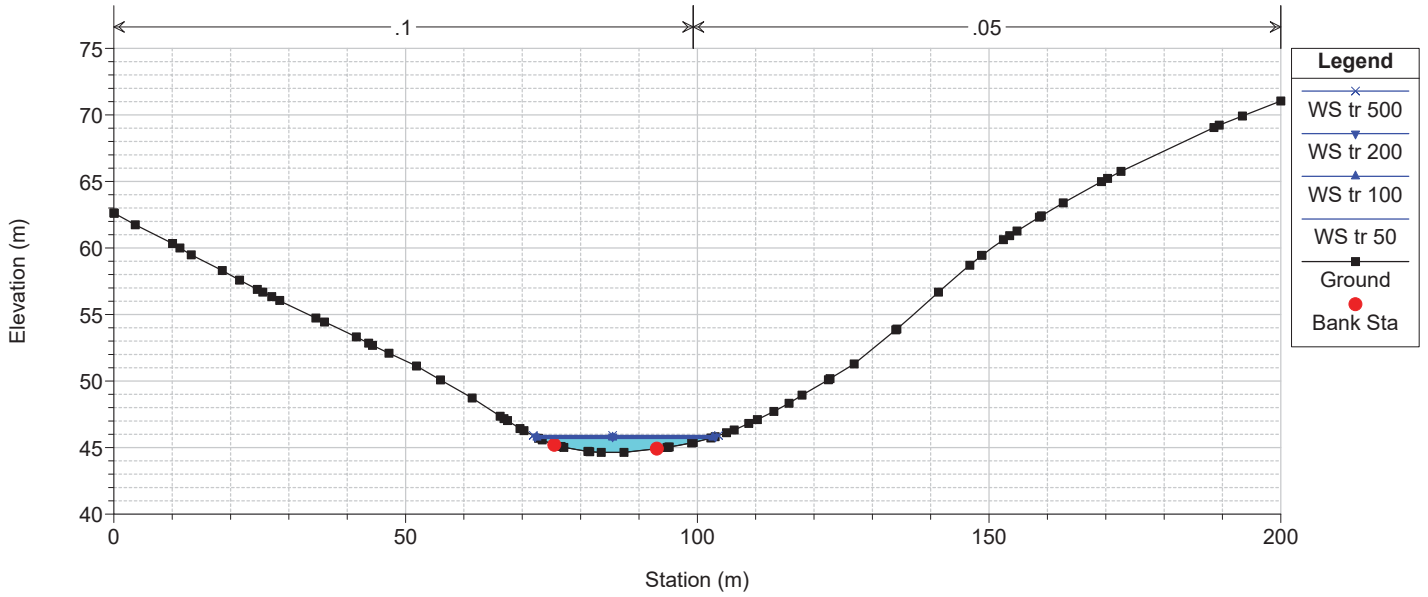
River = Rio Guidongias Reach = Asta 2 - 3 RS = 4495.6 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

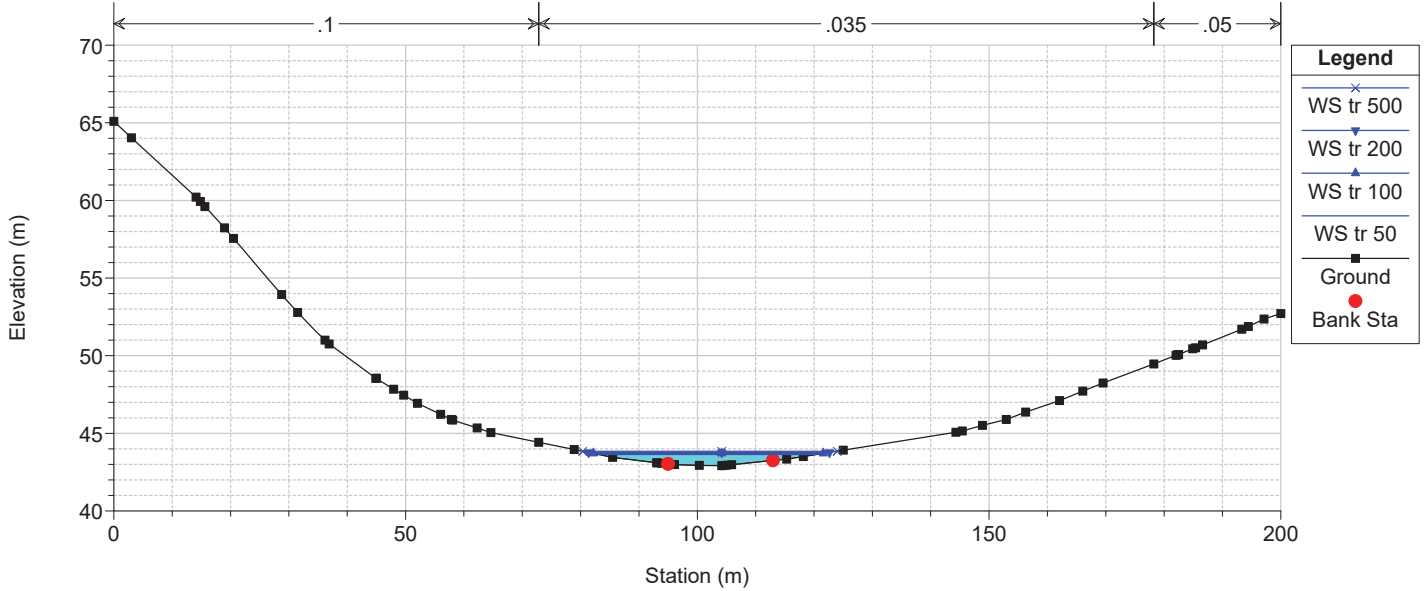
River = Rio Guidongias Reach = Asta 2 - 3 RS = 4400 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

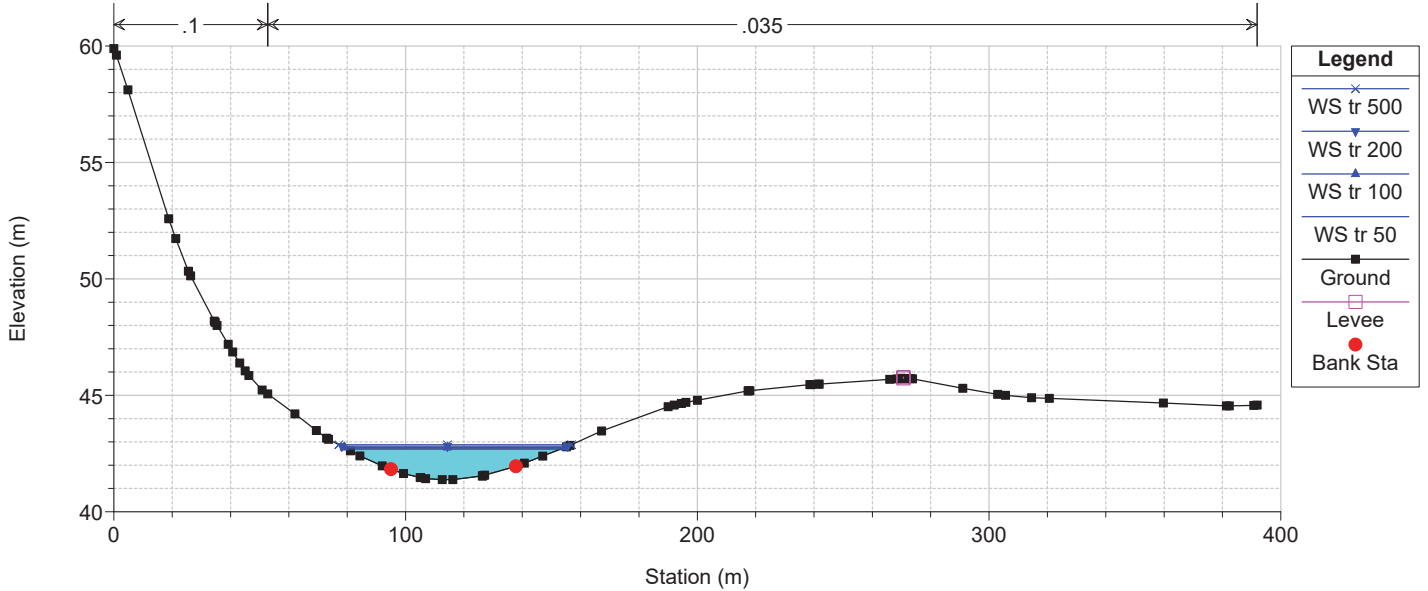
River = Rio Guidongias Reach = Asta 2 - 3 RS = 4300 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

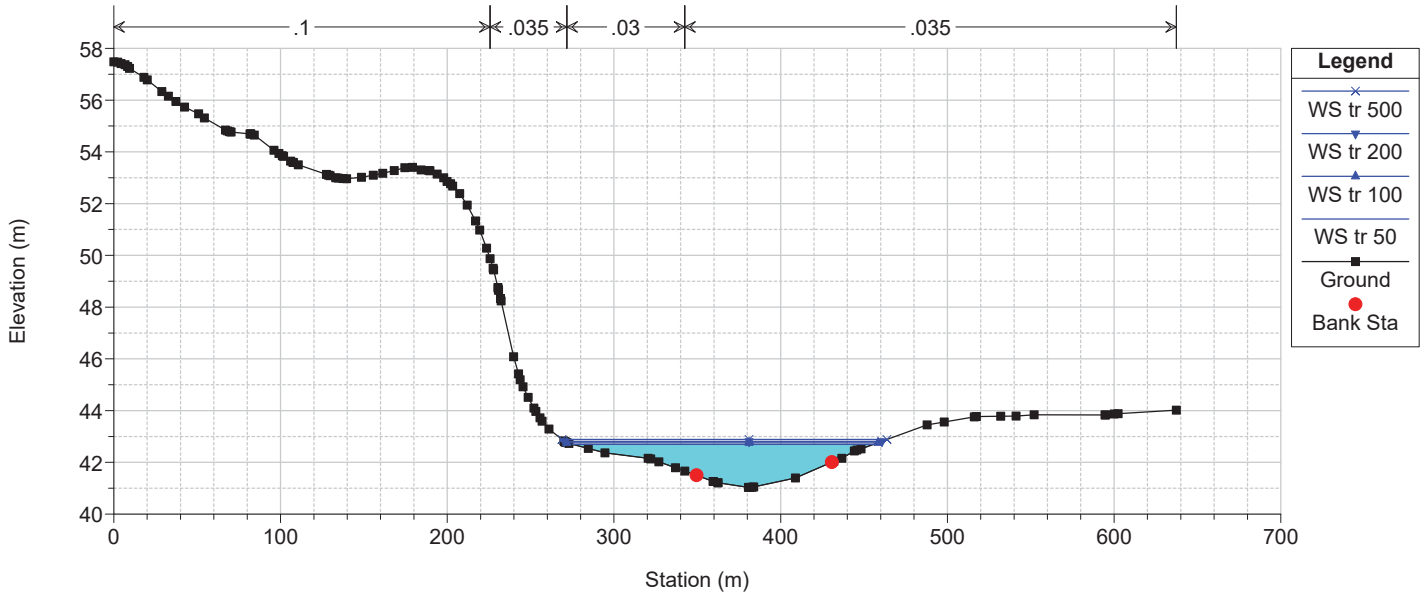
River = Rio Guidongias Reach = Asta 2 - 3 RS = 4200 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

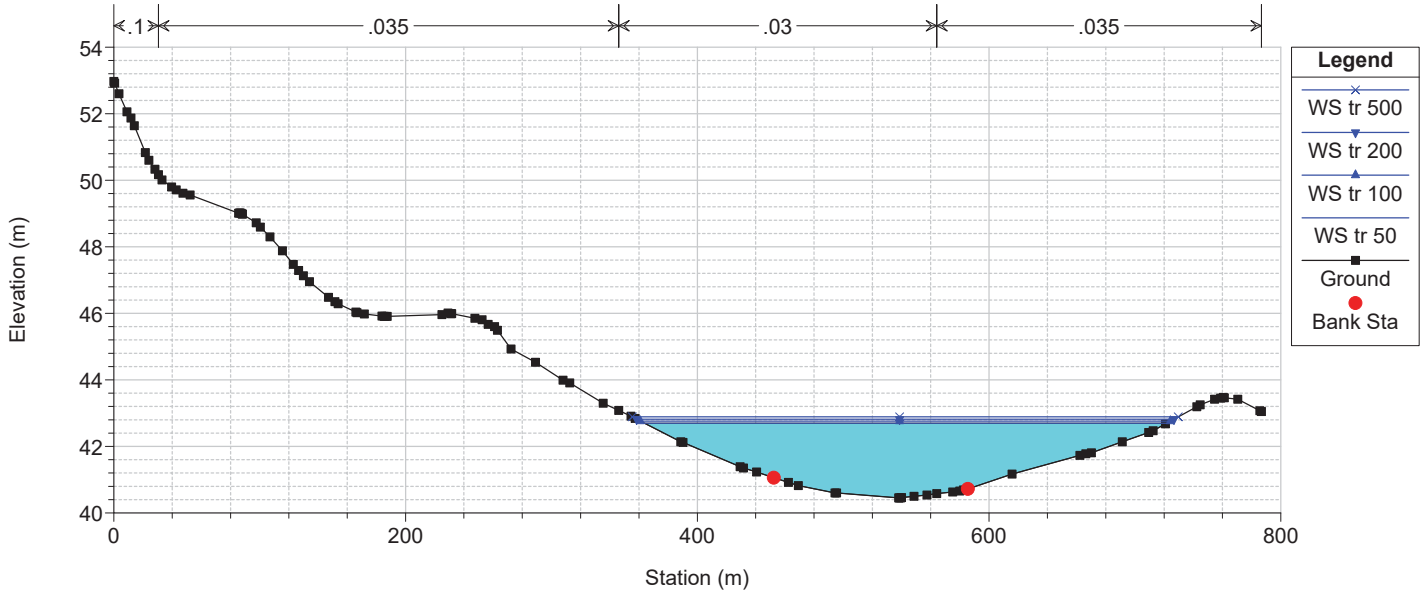
River = Rio Guidongias Reach = Asta 2 - 3 RS = 4100 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

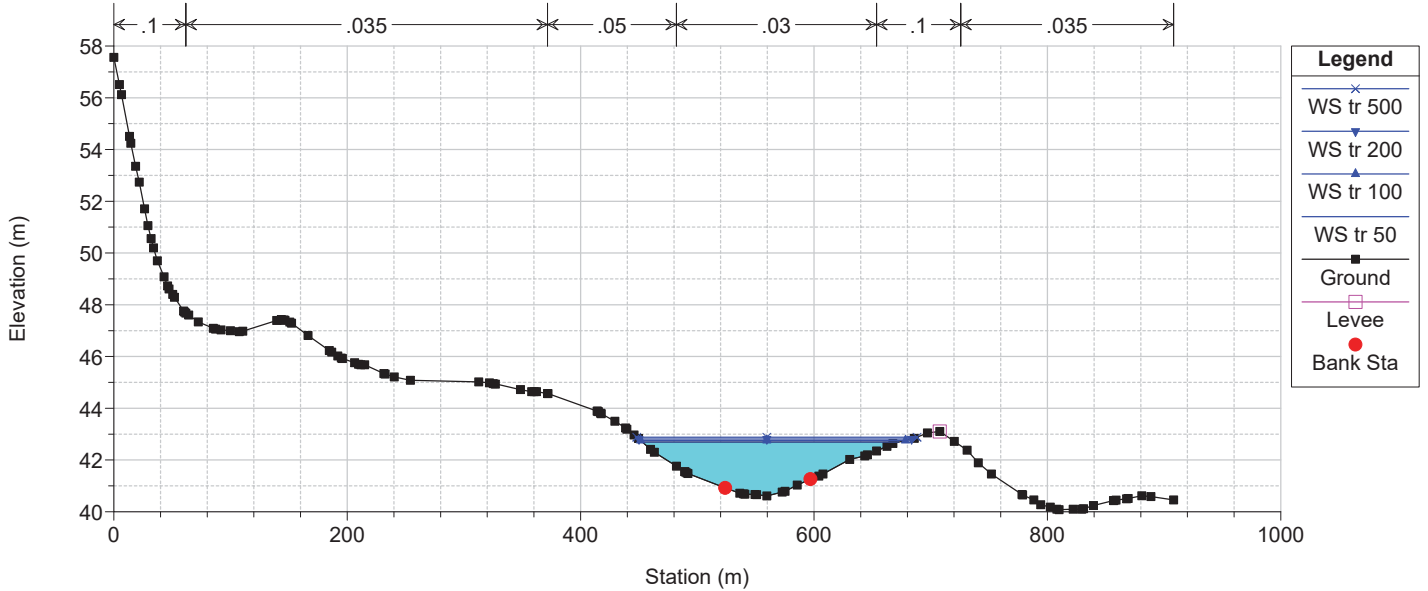
River = Rio Guidongias Reach = Asta 2 - 3 RS = 4000 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

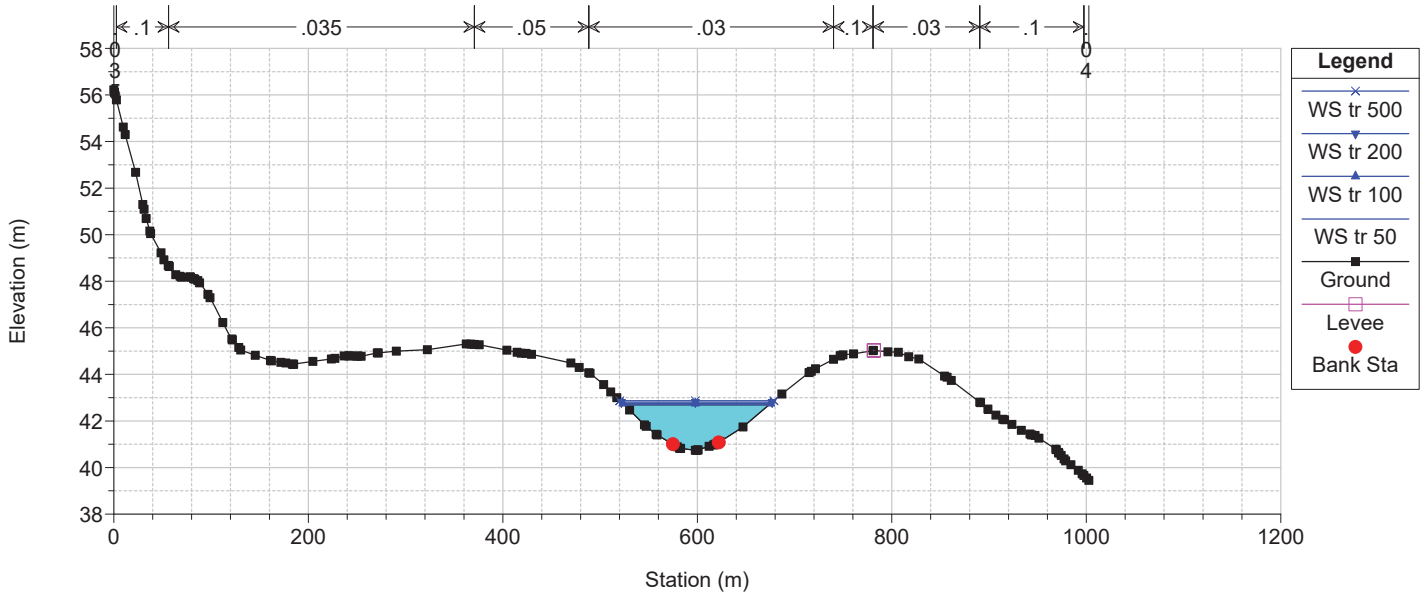
River = Rio Guidongias Reach = Asta 2 - 3 RS = 3900 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

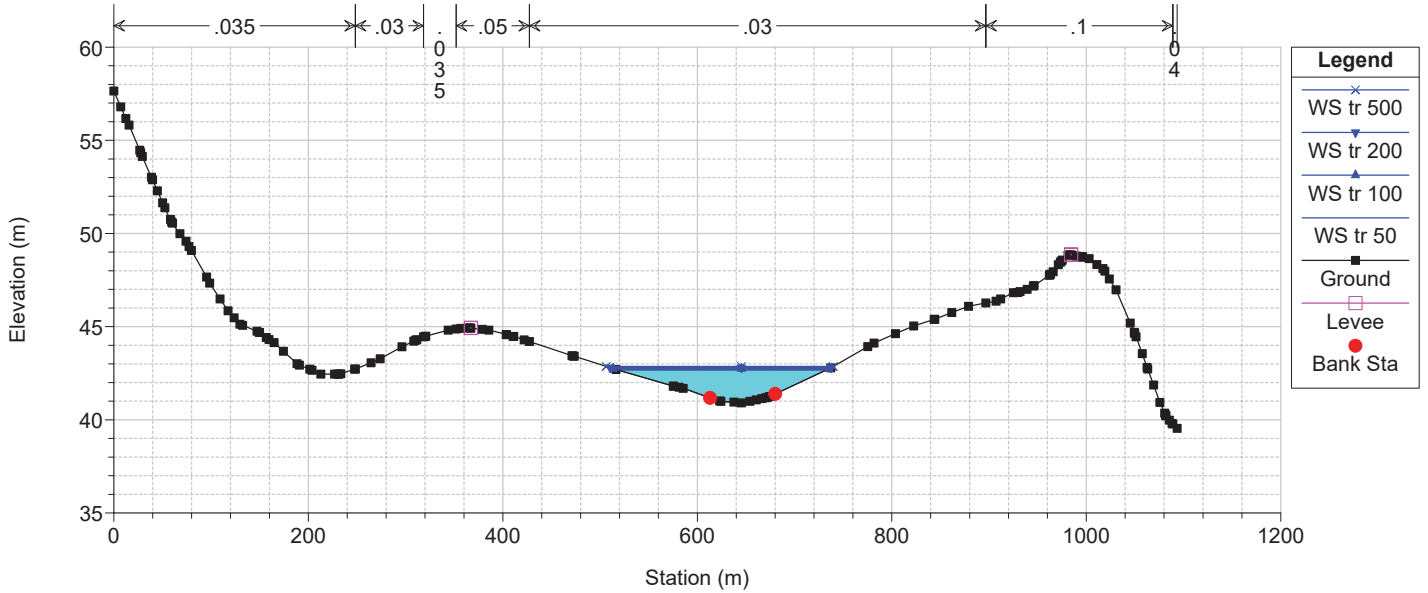
River = Rio Guidongias Reach = Asta 2 - 3 RS = 3800 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

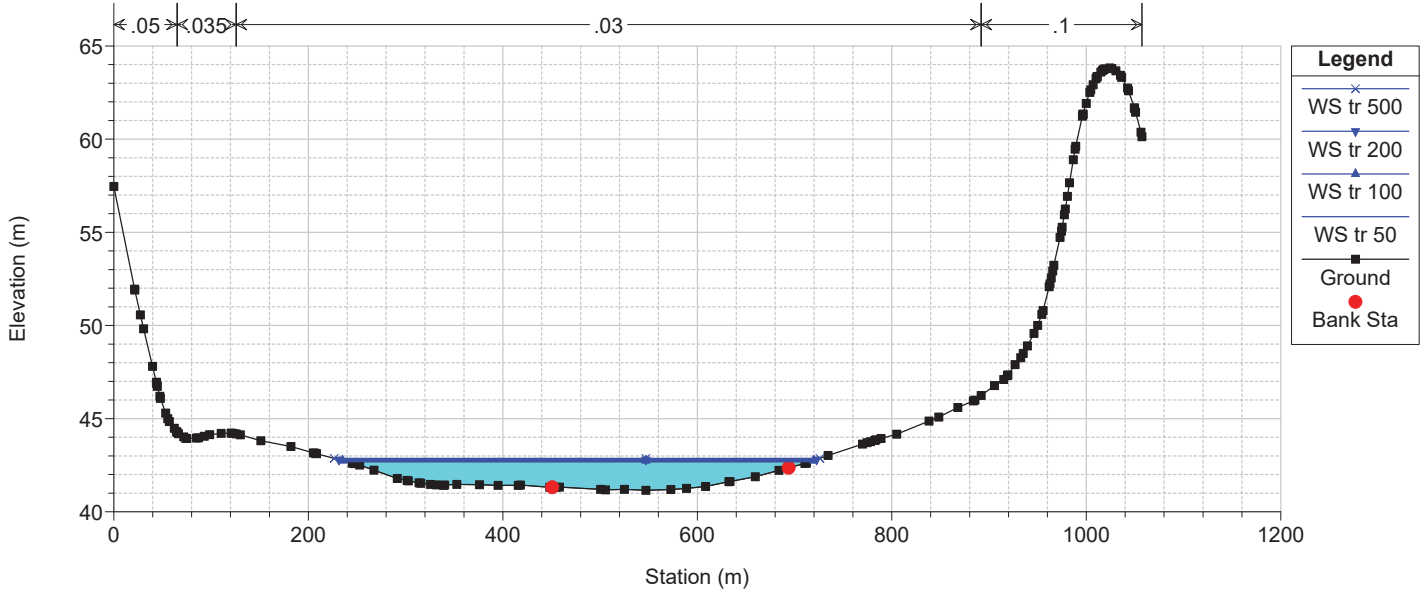
River = Rio Guidongias Reach = Asta 2 - 3 RS = 3700 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

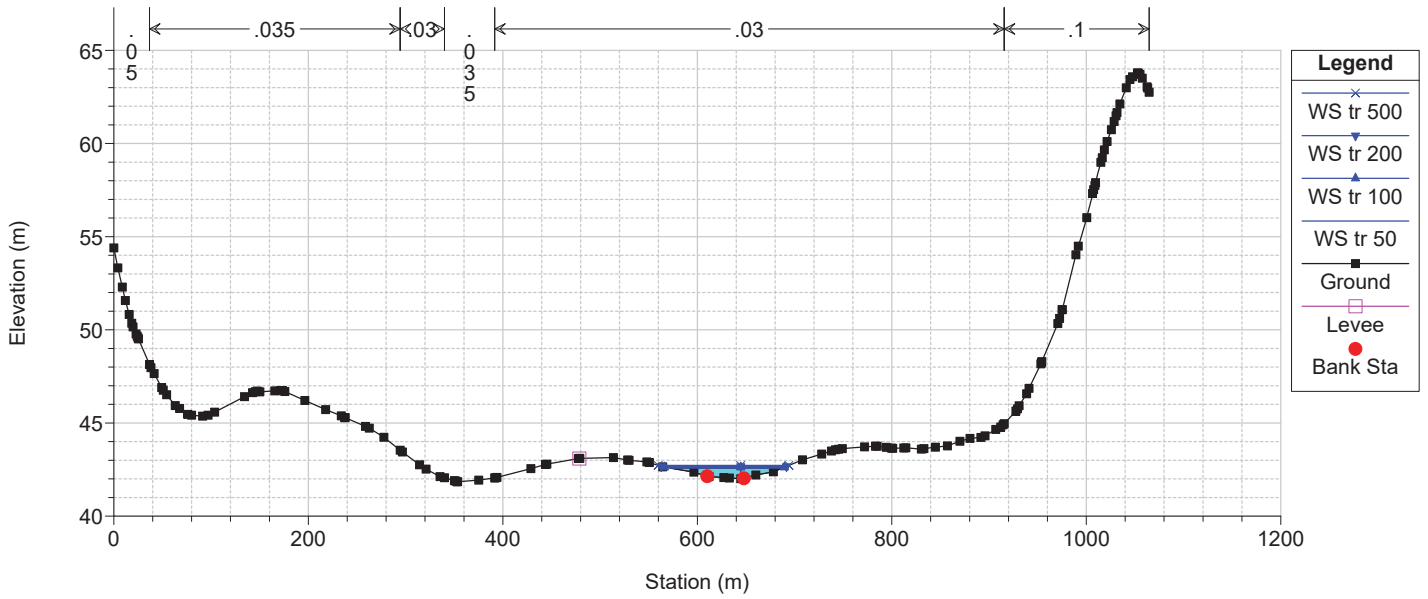
River = Rio Guidongias Reach = Asta 2 - 3 RS = 3600 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

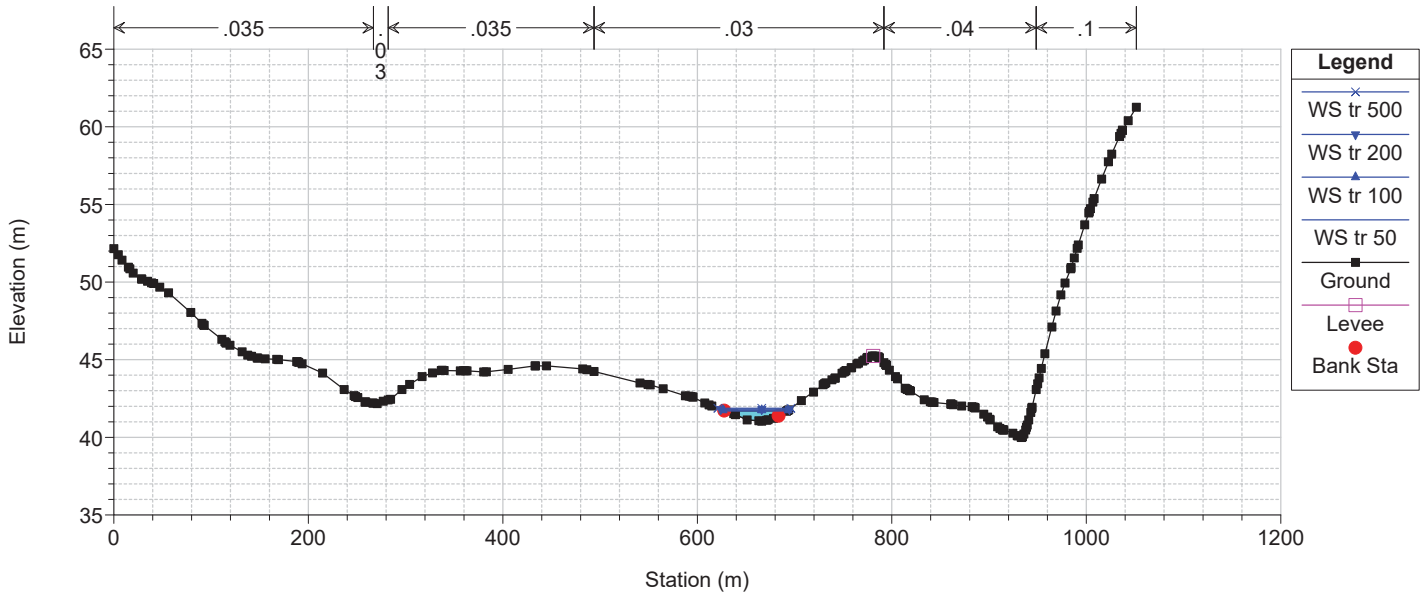
River = Rio Guidongias Reach = Asta 2 - 3 RS = 3500 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

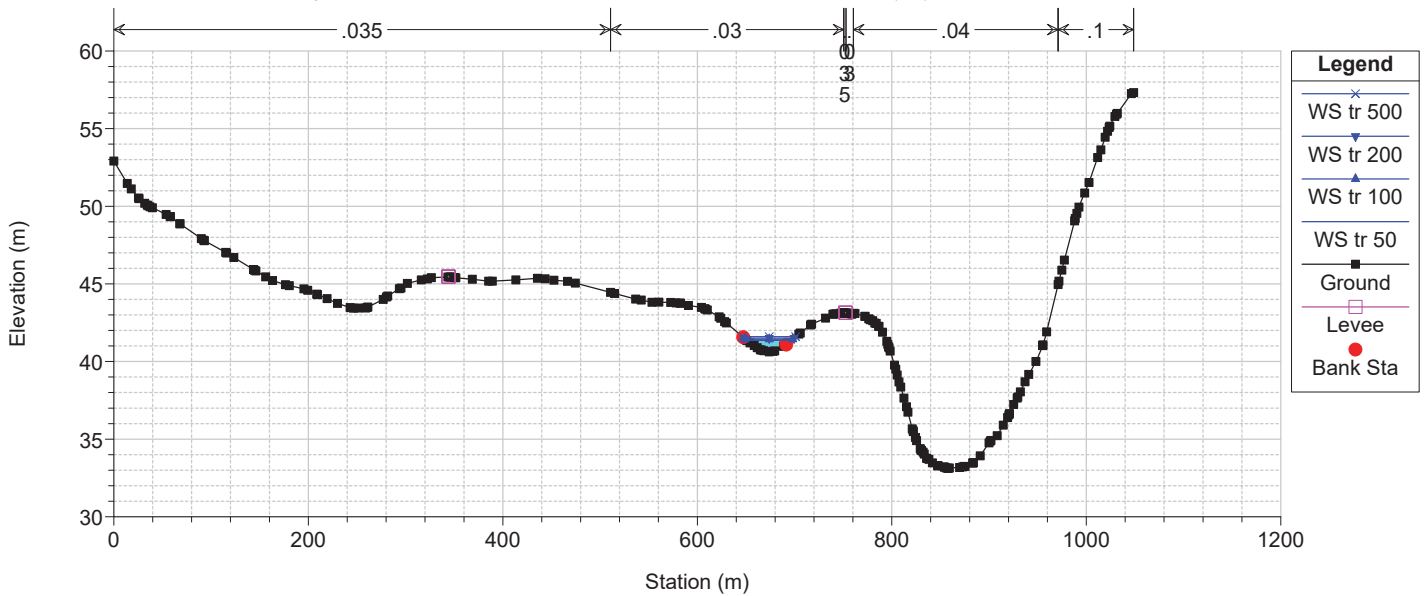
River = Rio Guidongias Reach = Asta 2 - 3 RS = 3419.624 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

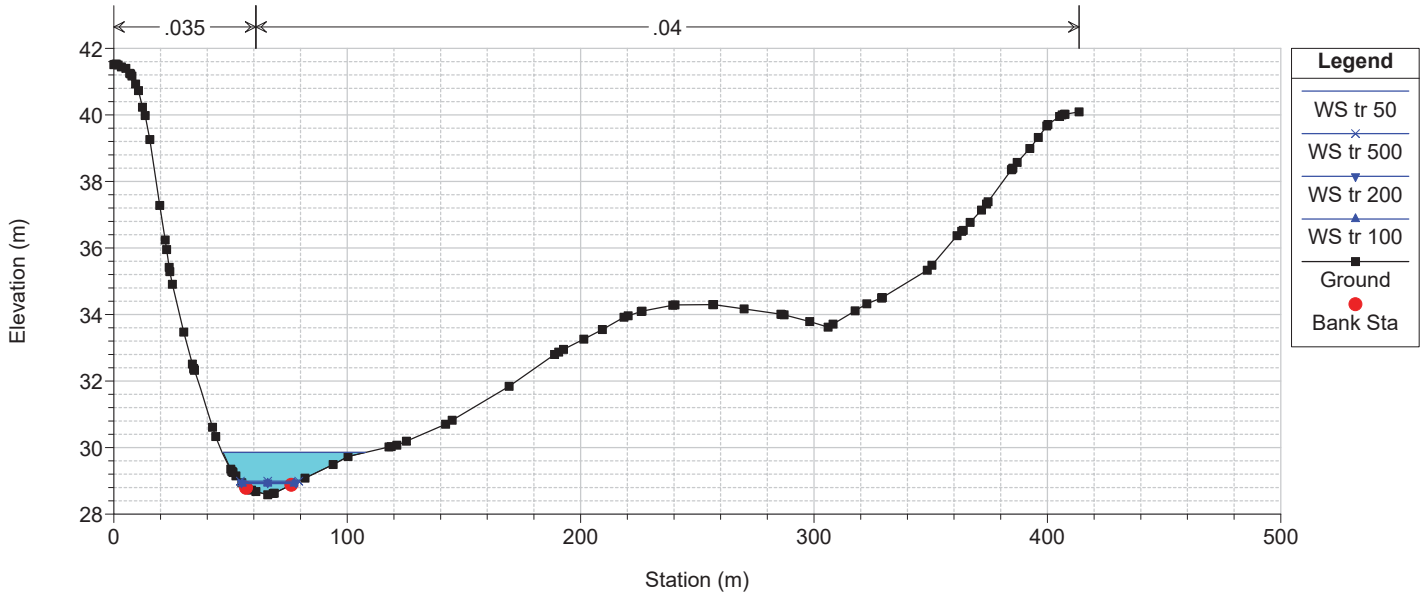
River = Rio Guidongias Reach = Asta 2 - 3 RS = 3400 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

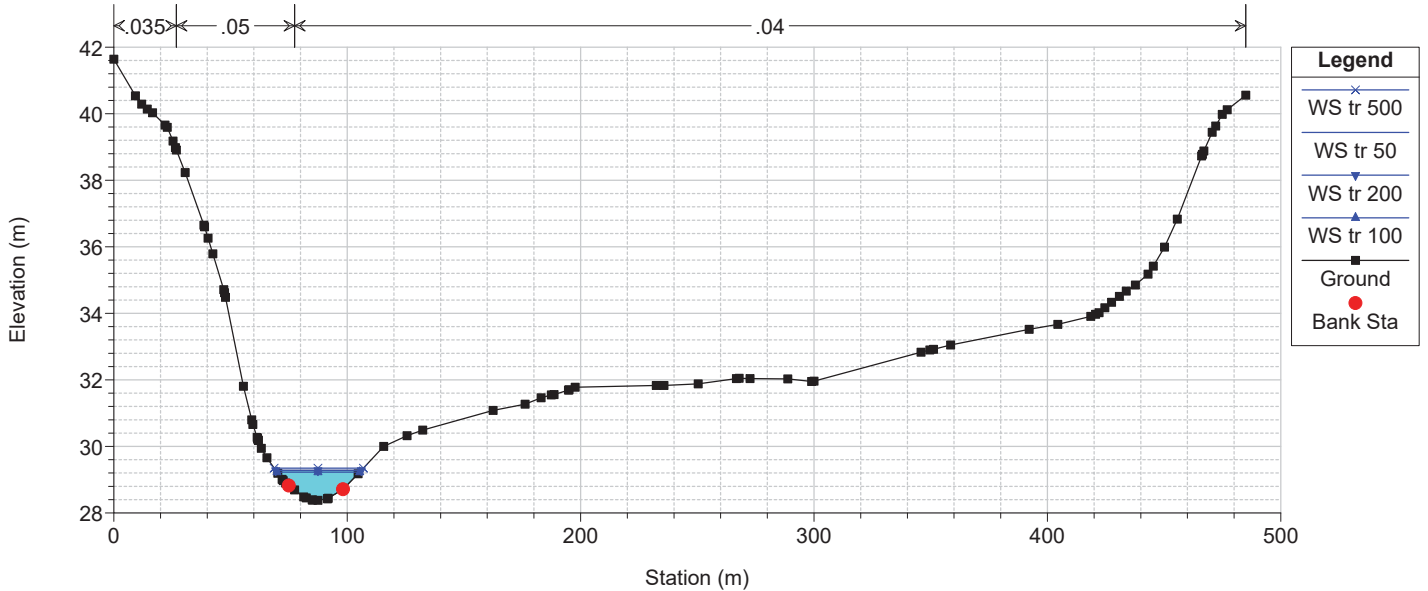
River = Rio Guidongias Reach = Asta 2 - 3 RS = 3338.76 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

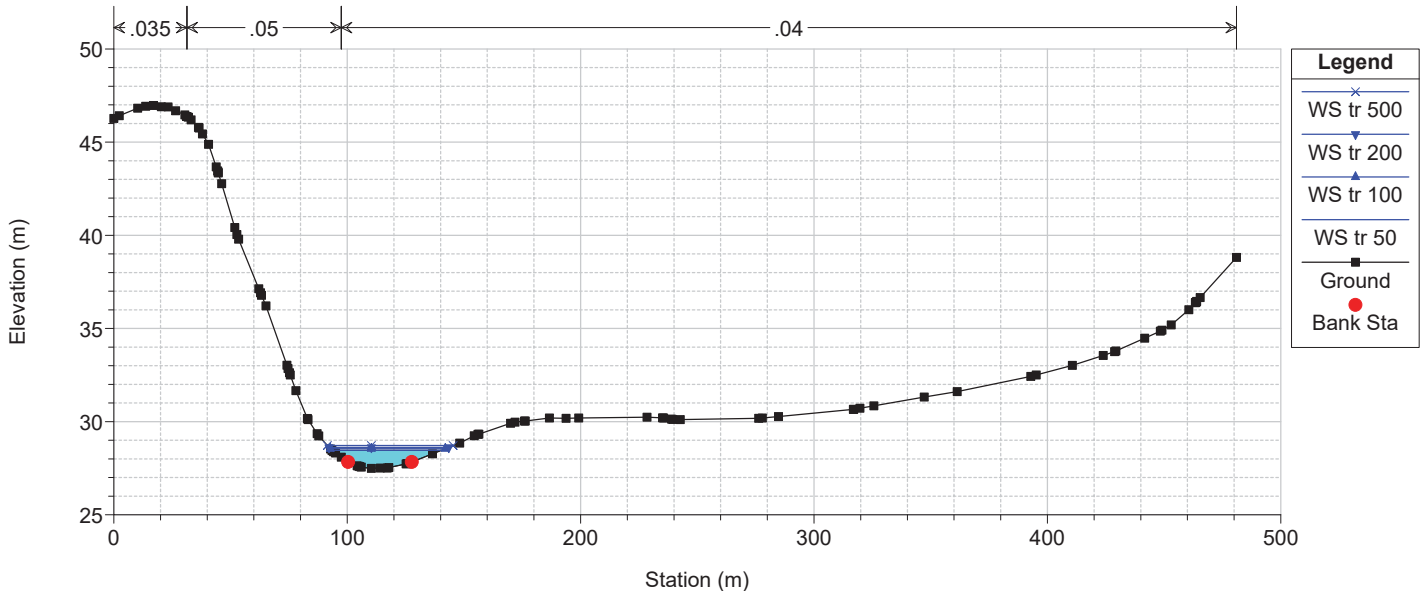
River = Rio Guidongias Reach = Asta 2 - 3 RS = 3276.439 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

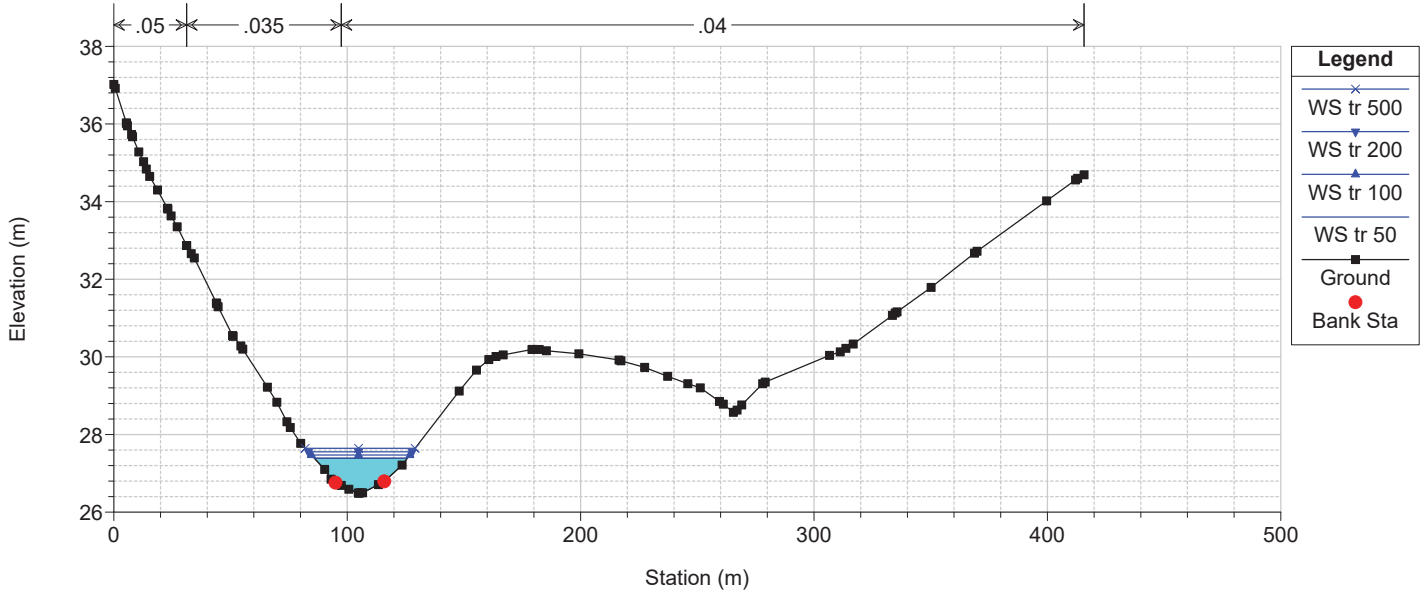
River = Rio Guidongias Reach = Asta 2 - 3 RS = 3199.66 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

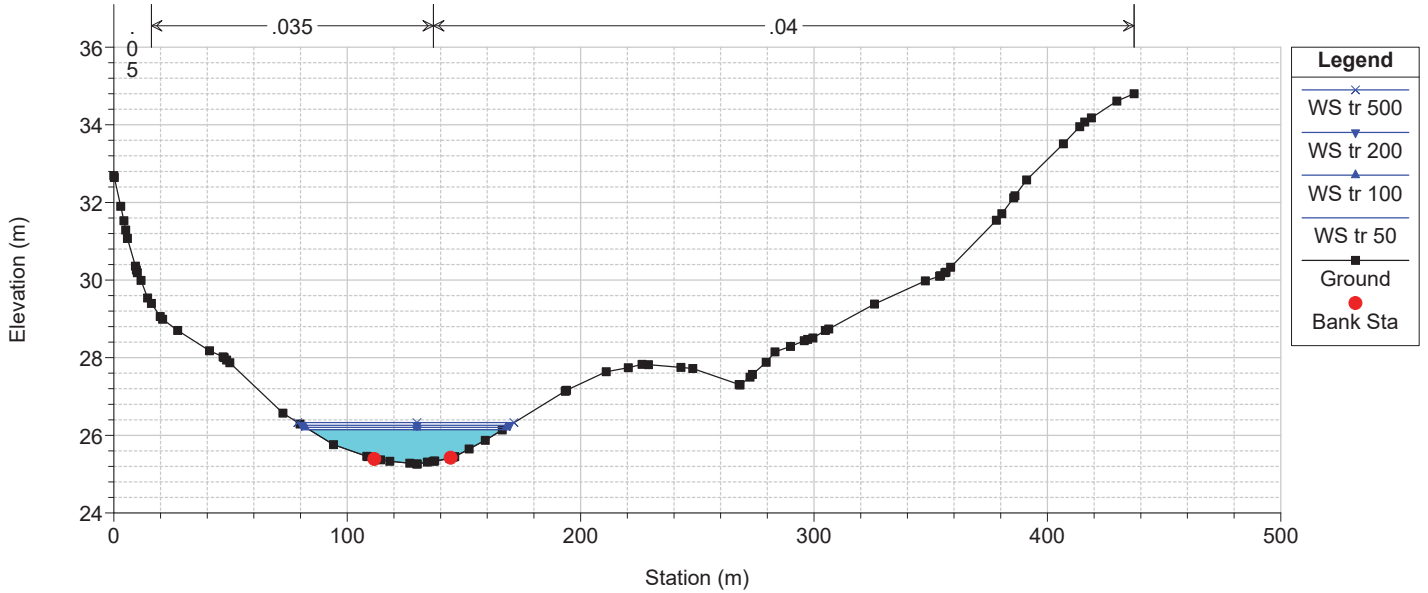
River = Rio Guidongias Reach = Asta 2 - 3 RS = 3100.73 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

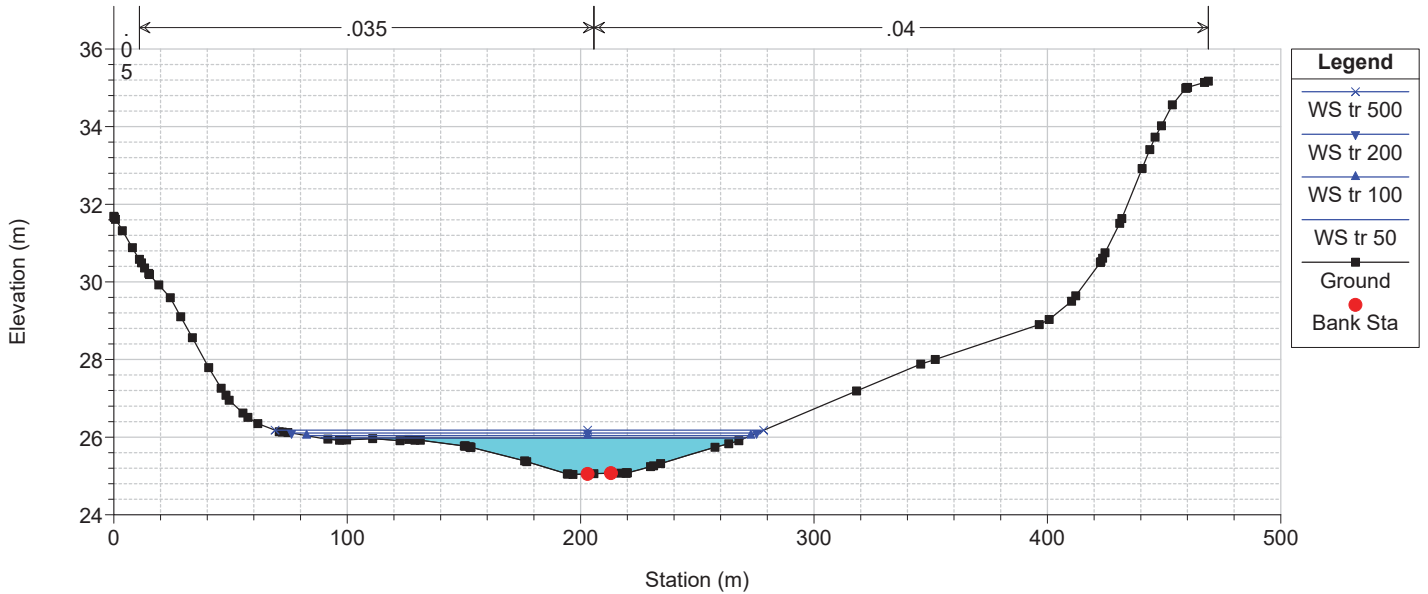
River = Rio Guidongias Reach = Asta 2 - 3 RS = 2992.008 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

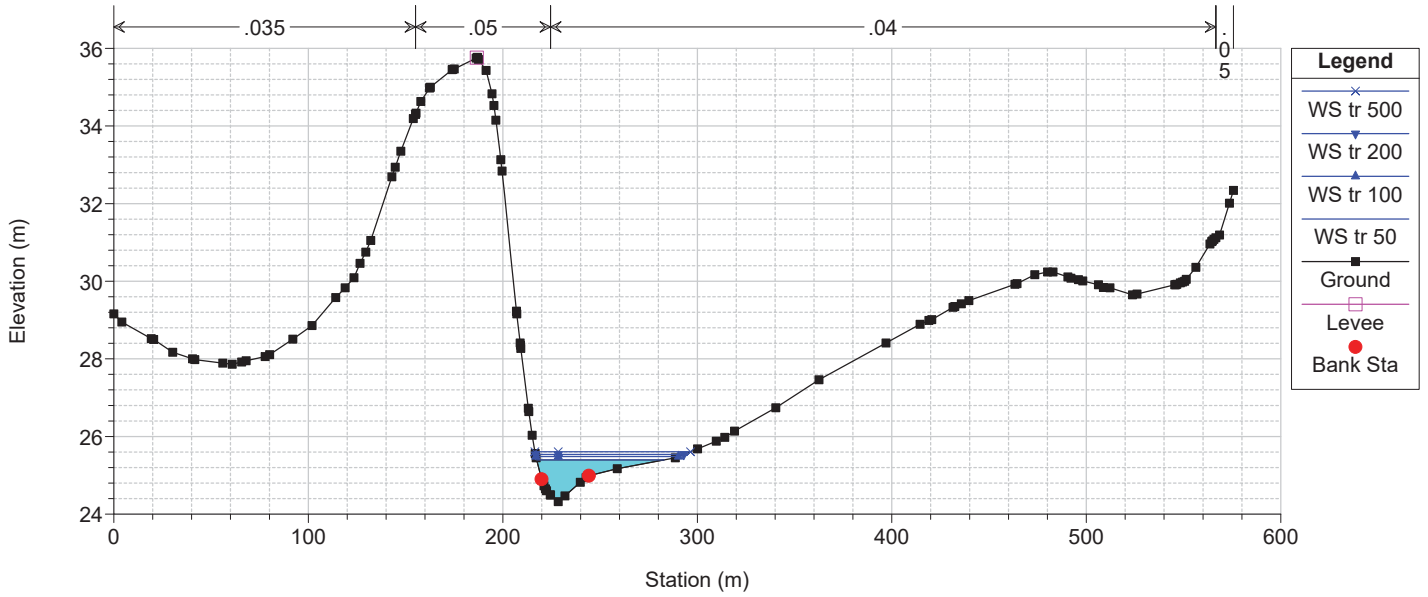
River = Rio Guidongias Reach = Asta 2 - 3 RS = 2900.397 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

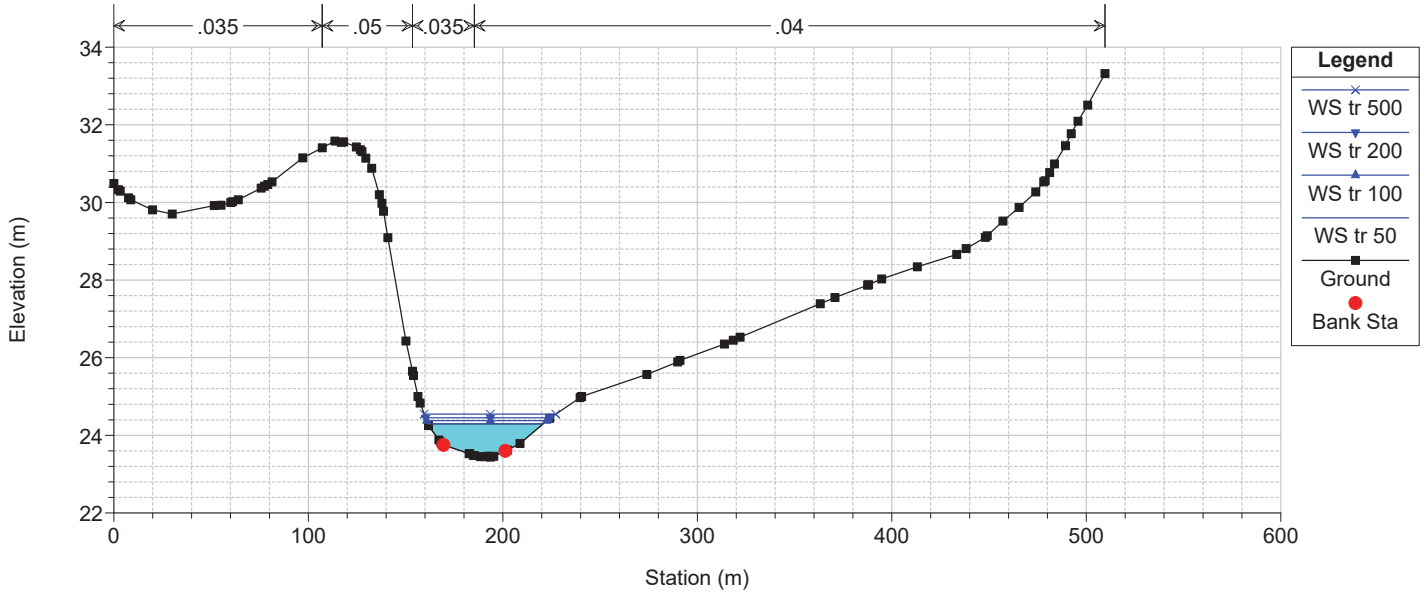
River = Rio Guidongias Reach = Asta 2 - 3 RS = 2799.861 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

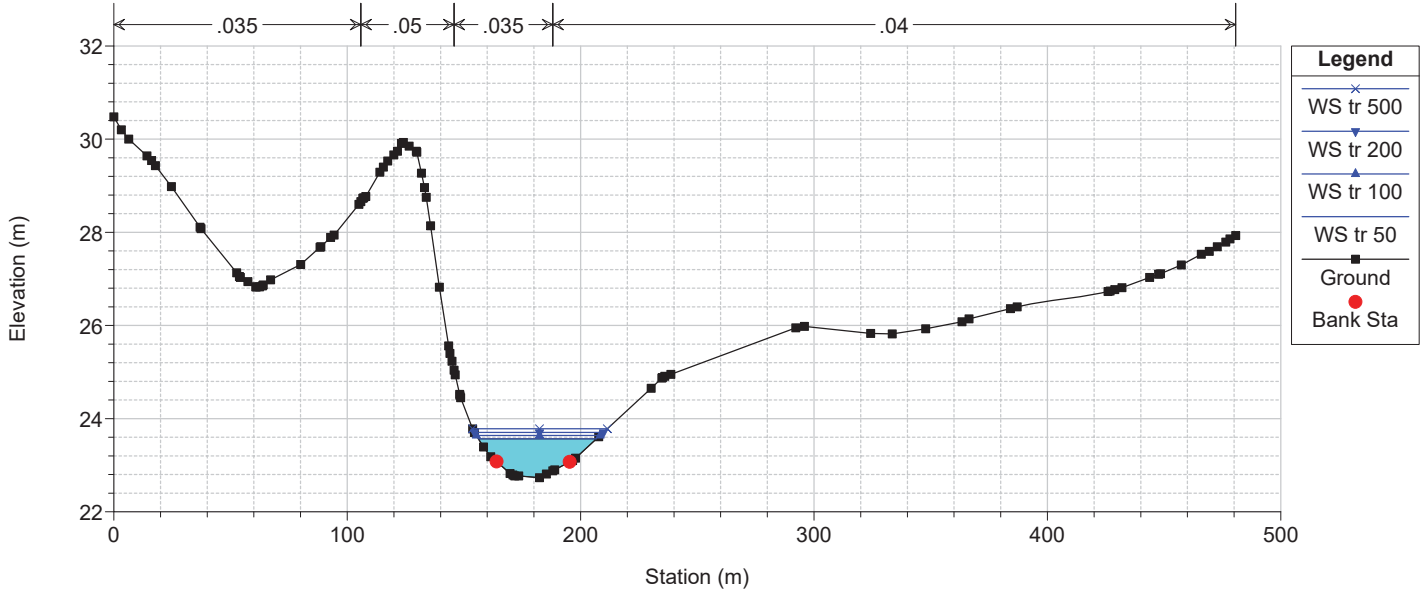
River = Rio Guidongias Reach = Asta 2 - 3 RS = 2698.53 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

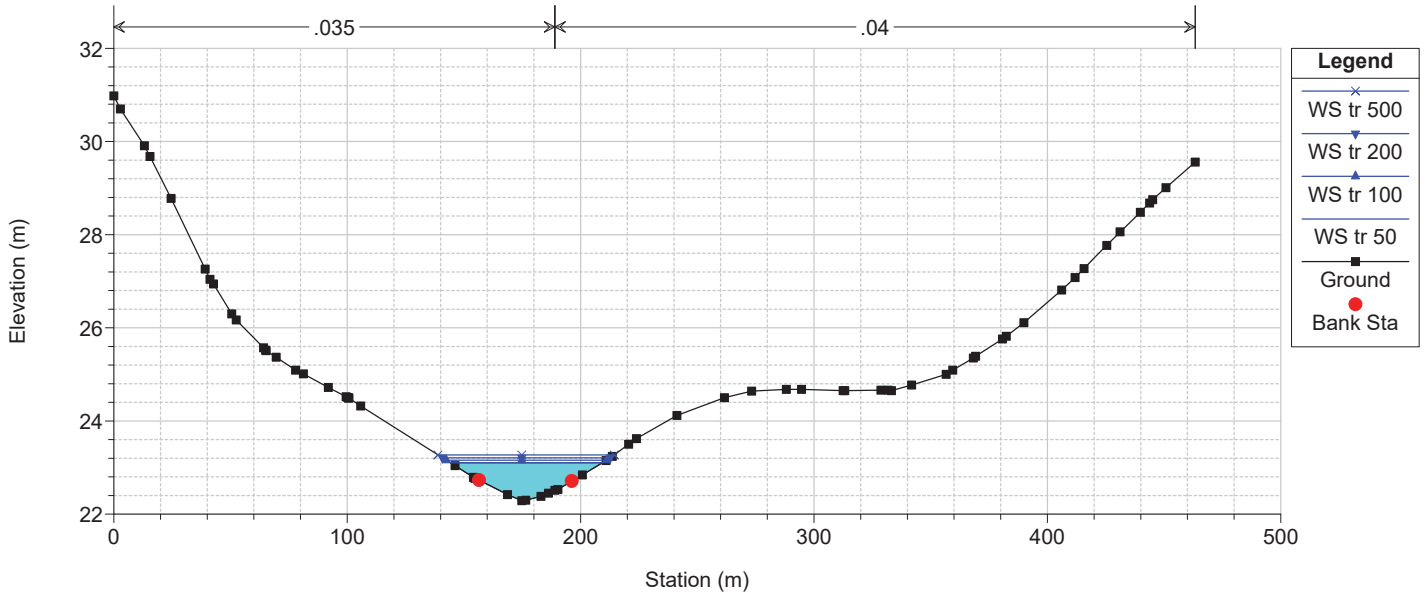
River = Rio Guidongias Reach = Asta 2 - 3 RS = 2599.269 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

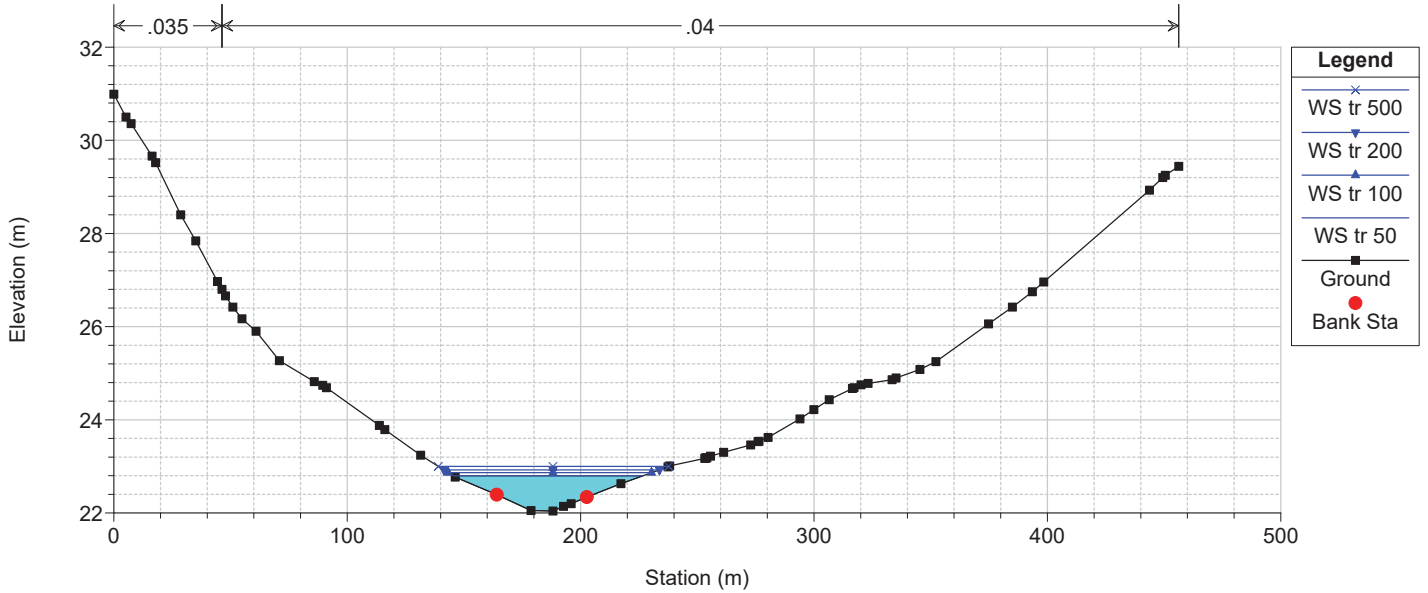
River = Rio Guidongias Reach = Asta 2 - 3 RS = 2537.407 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

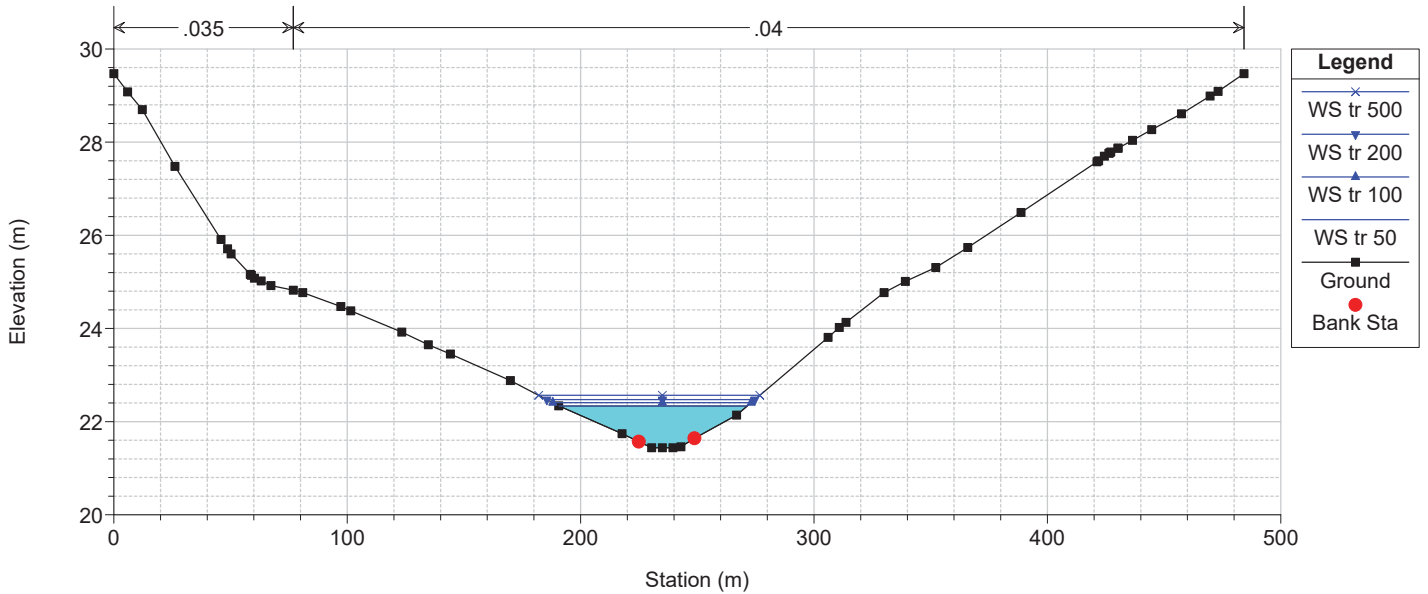
River = Rio Guidongias Reach = Asta 2 - 3 RS = 2498.135 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

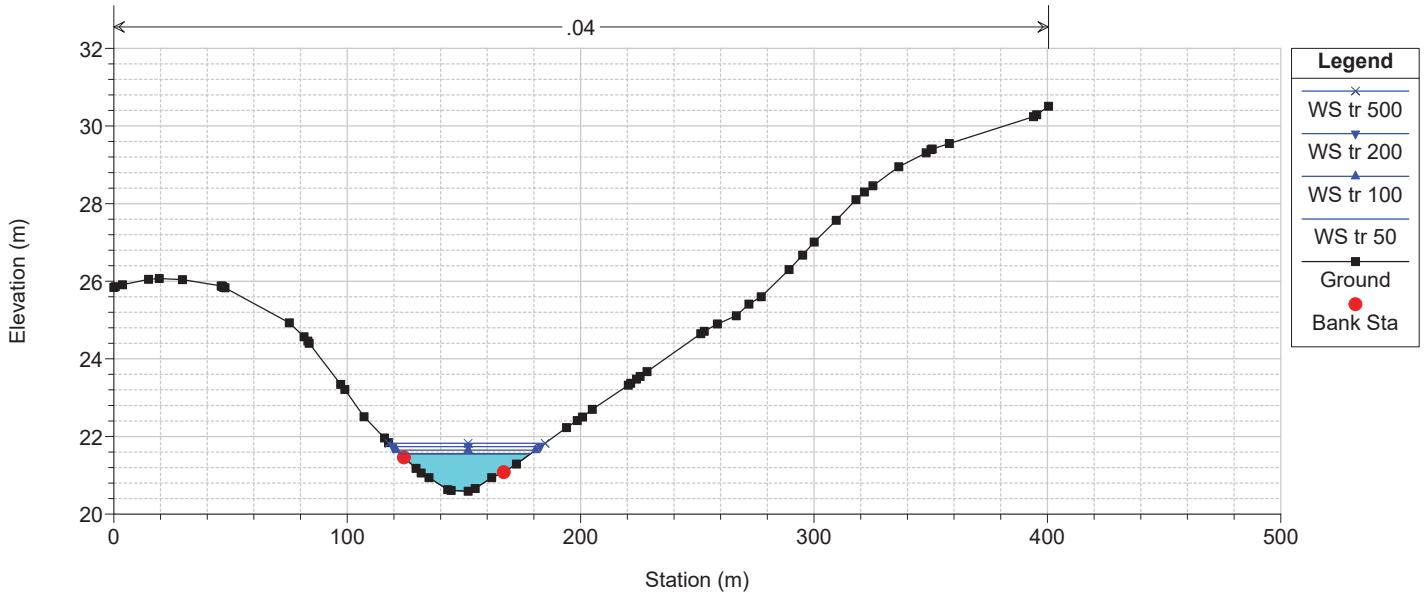
River = Rio Guidongias Reach = Asta 2 - 3 RS = 2417.199 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

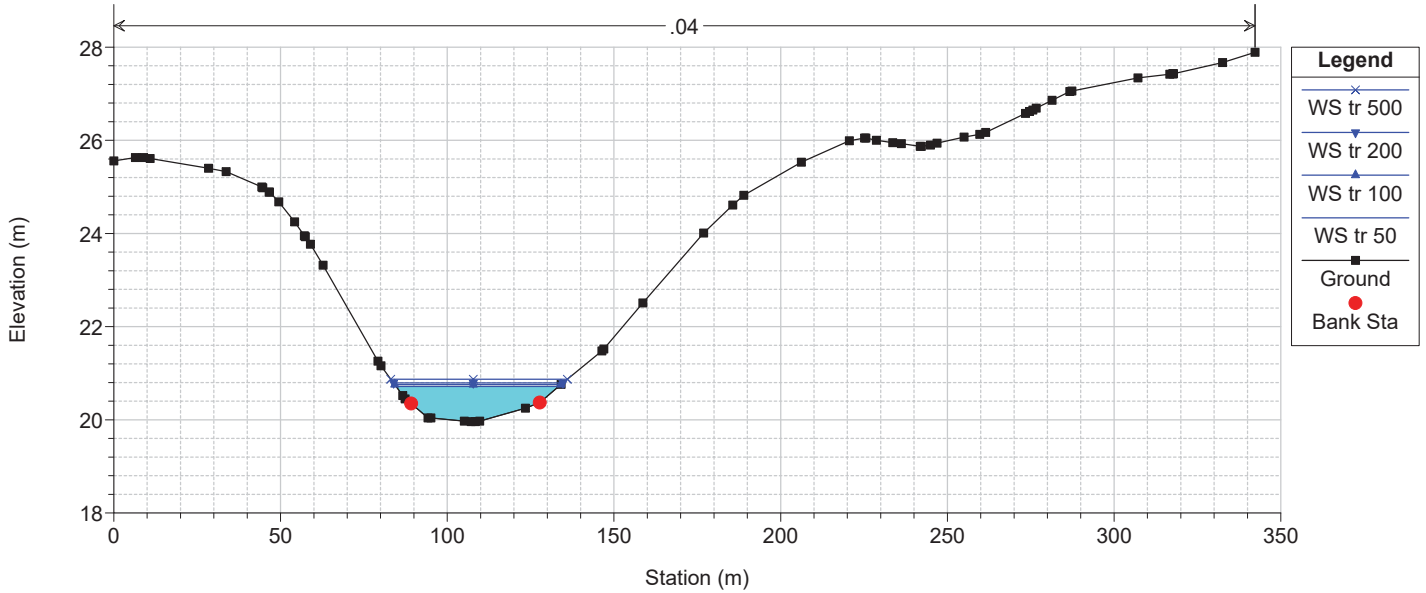
River = Rio Guidongias Reach = Asta 2 - 3 RS = 2281.544 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

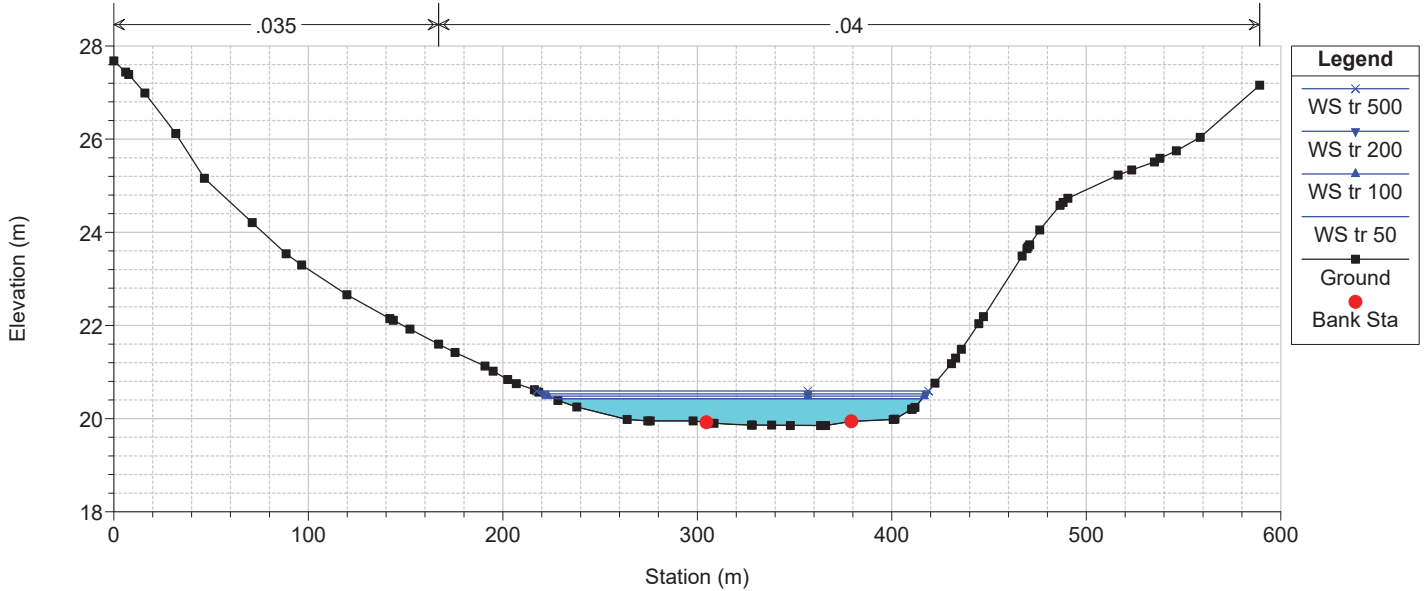
River = Rio Guidongias Reach = Asta 2 - 3 RS = 2195.509 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

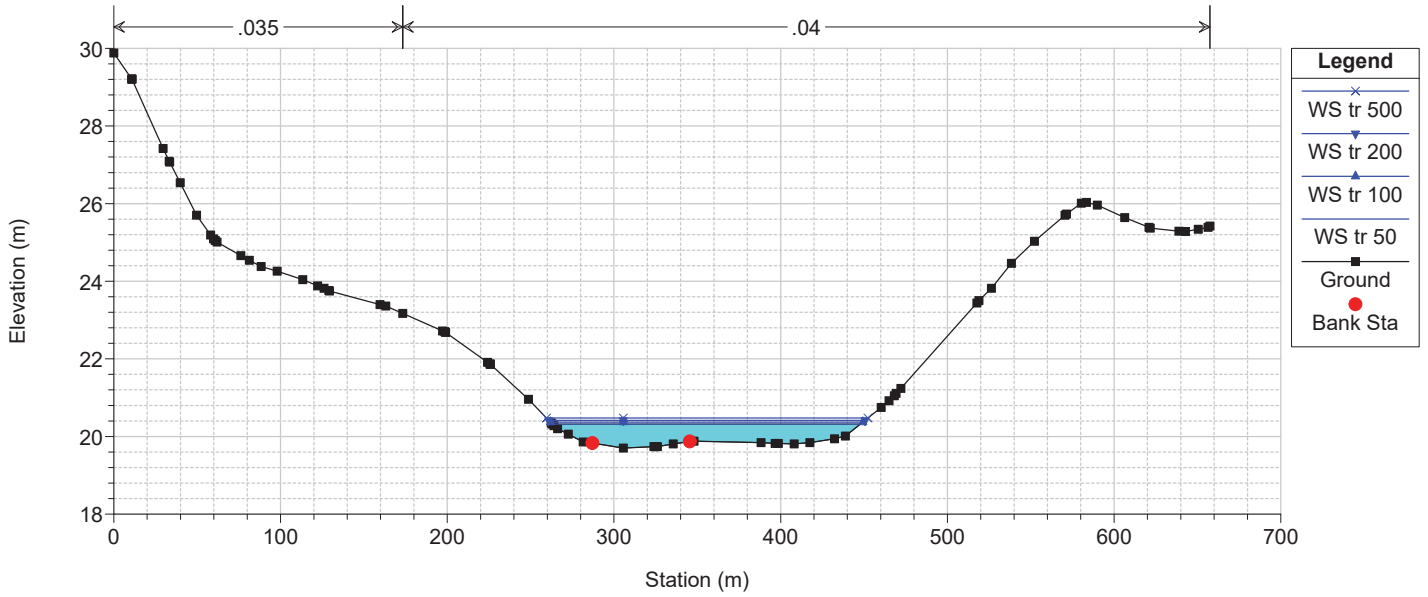
River = Rio Guidongias Reach = Asta 2 - 3 RS = 2072.552 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

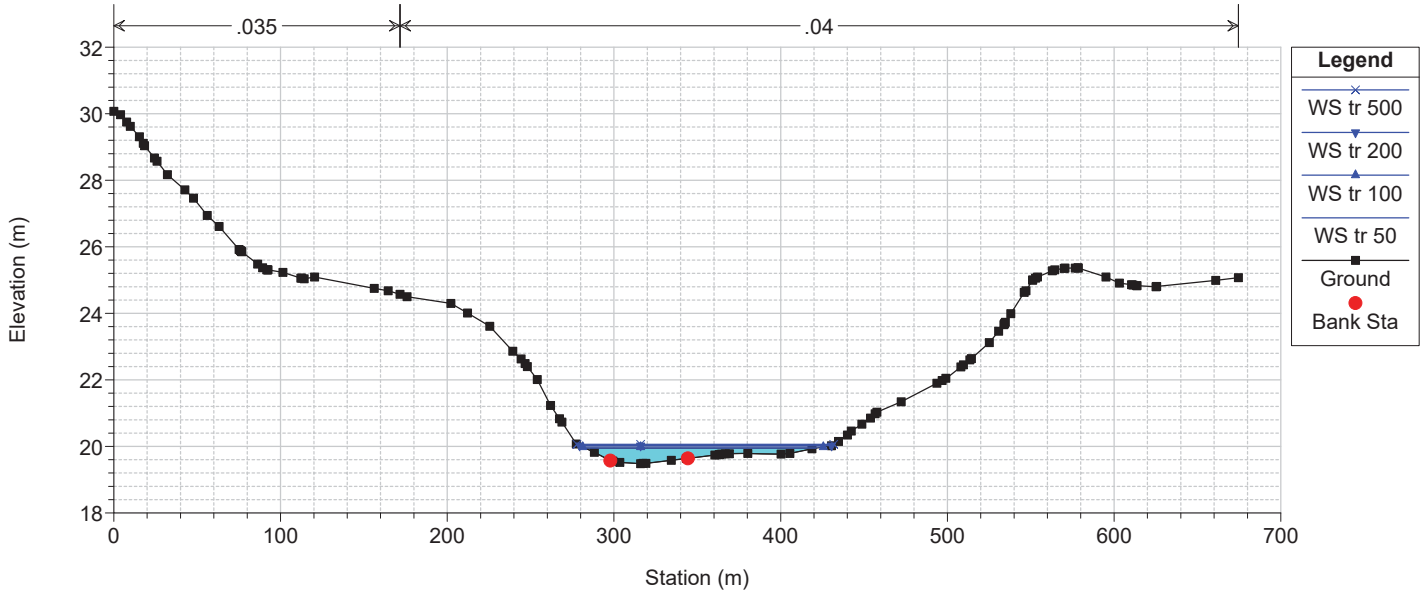
River = Rio Guidongias Reach = Asta 2 - 3 RS = 2002.034 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

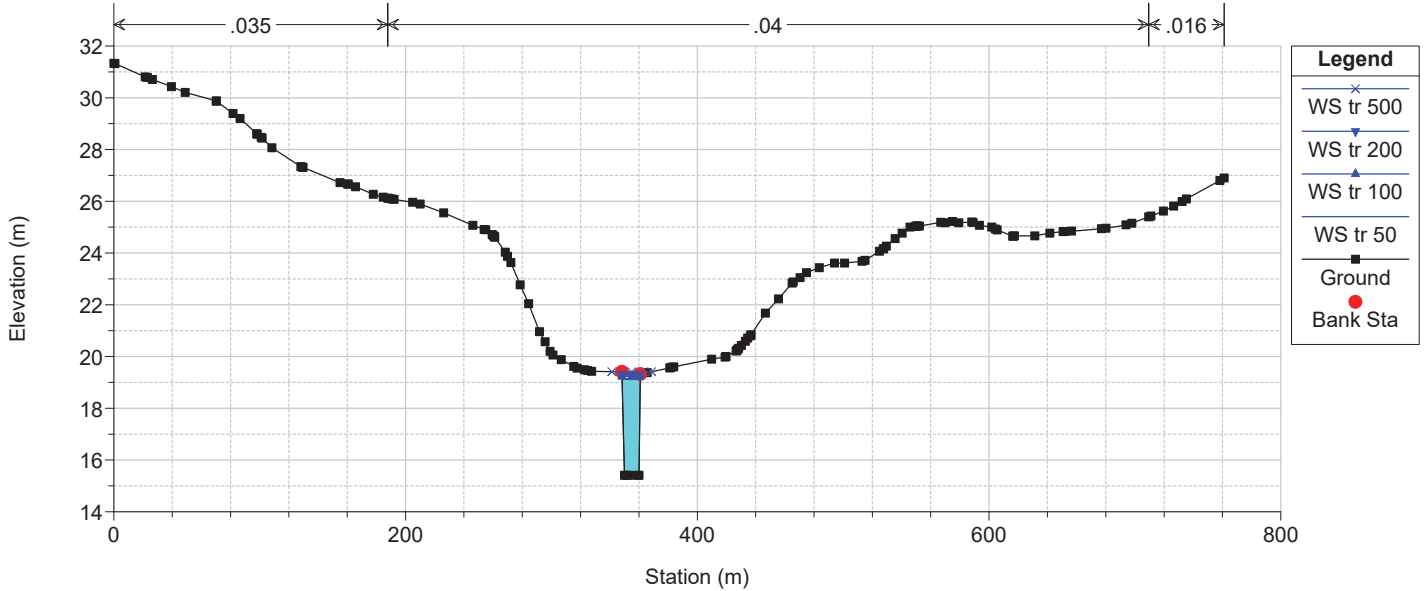
River = Rio Guidongias Reach = Asta 2 - 3 RS = 1966.495 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

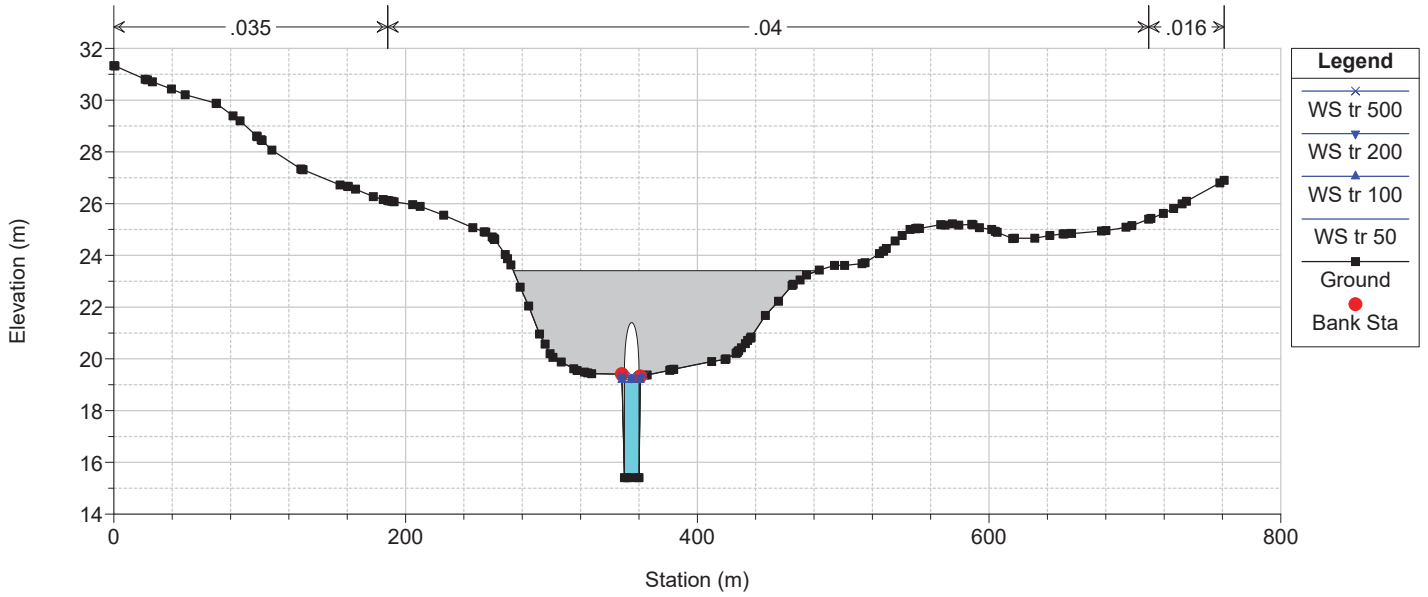
River = Rio Guidongias Reach = Asta 2 - 3 RS = 1932.486 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

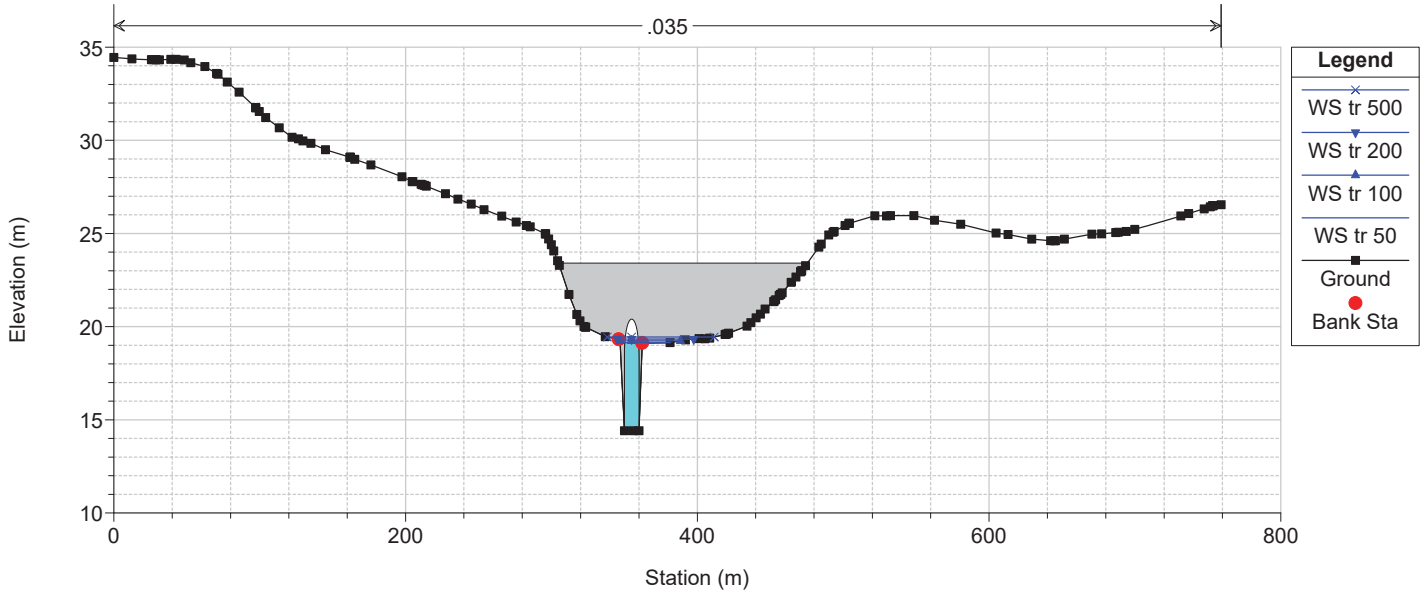
River = Rio Guidongias Reach = Asta 2 - 3 RS = 1896.104 Culv COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

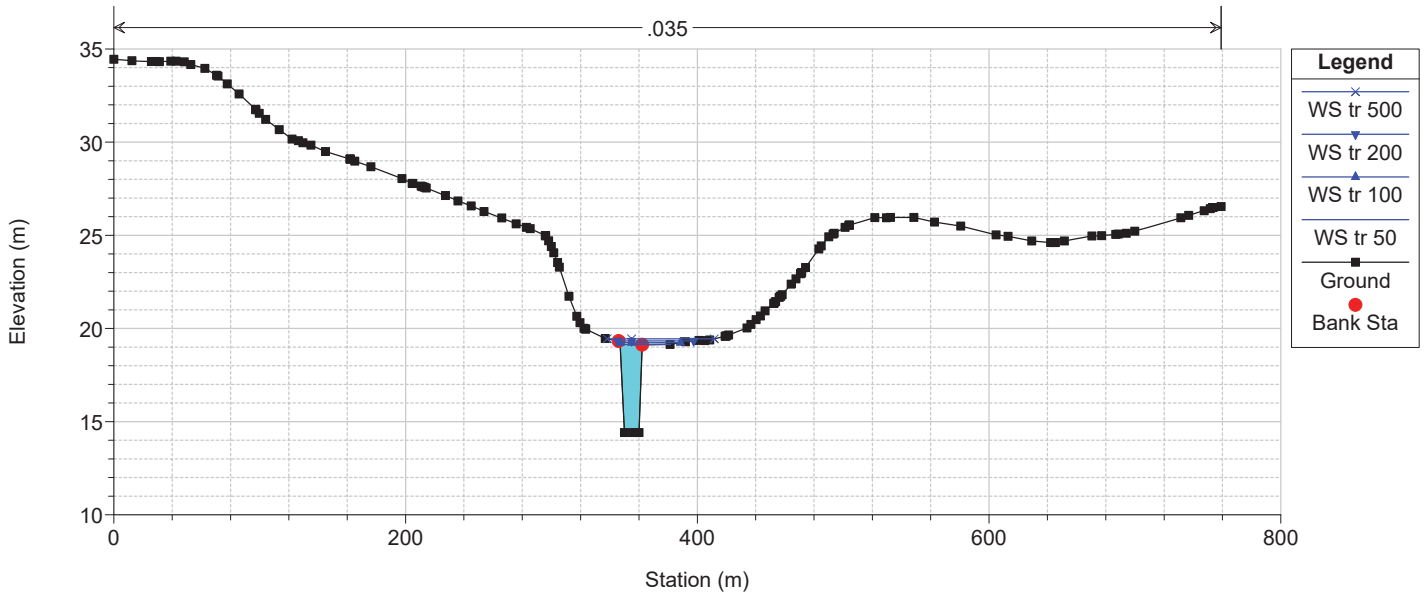
River = Rio Guidongias Reach = Asta 2 - 3 RS = 1896.104 Culv COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

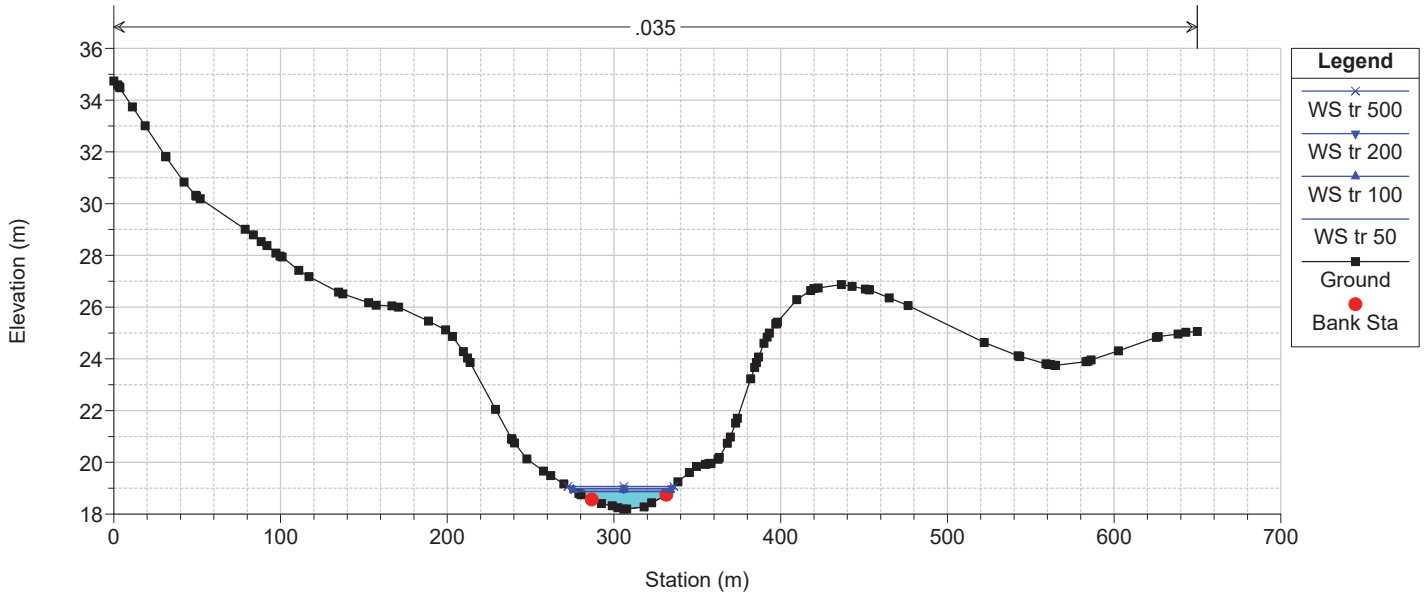
River = Rio Guidongias Reach = Asta 2 - 3 RS = 1859.159 Culv COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

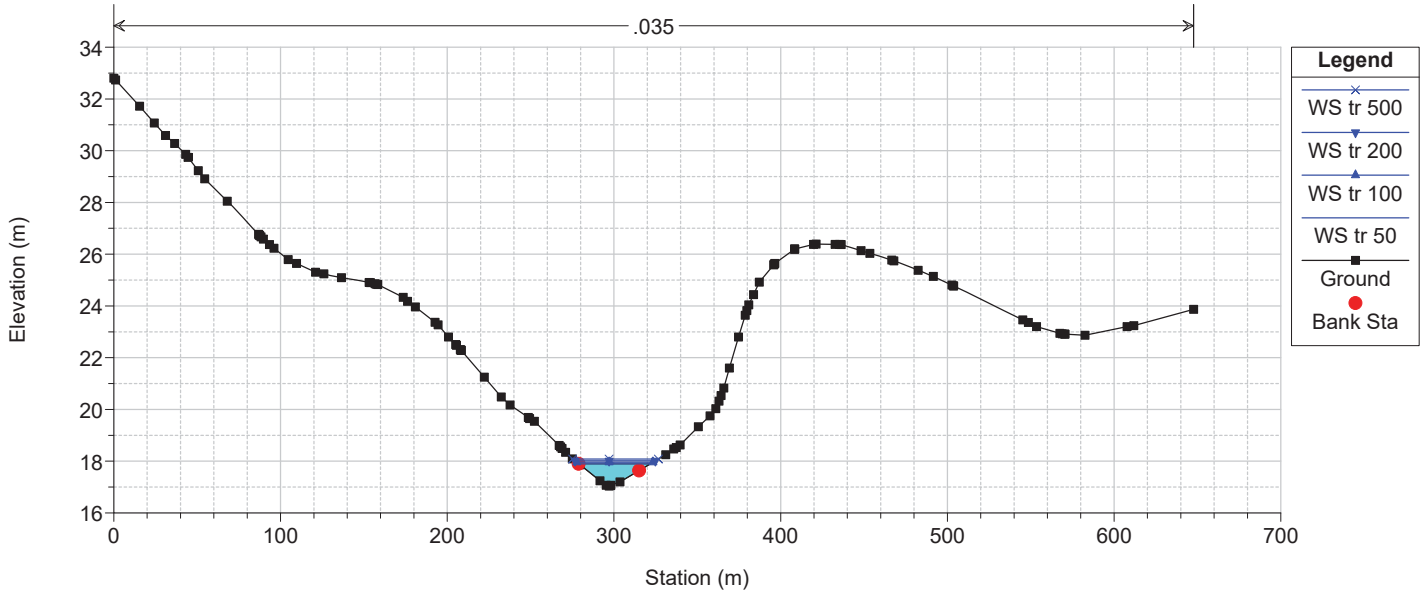
River = Rio Guidongias Reach = Asta 2 - 3 RS = 1810.757 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

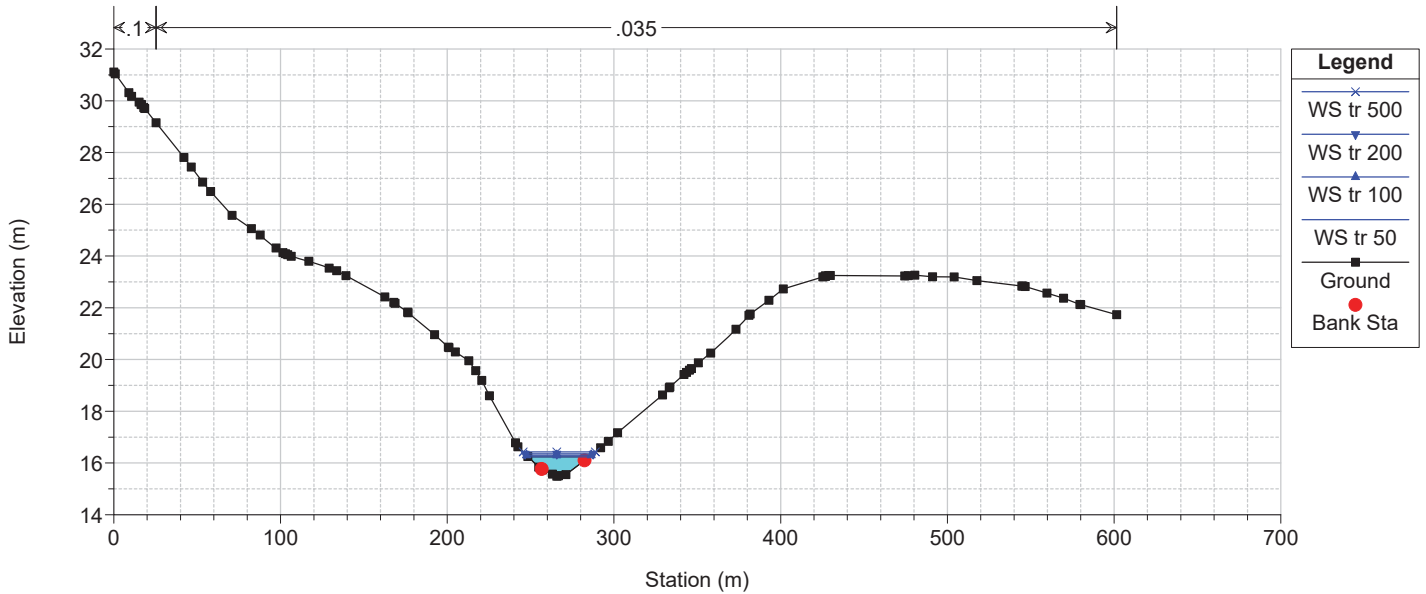
River = Rio Guidongias Reach = Asta 2 - 3 RS = 1757.787 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

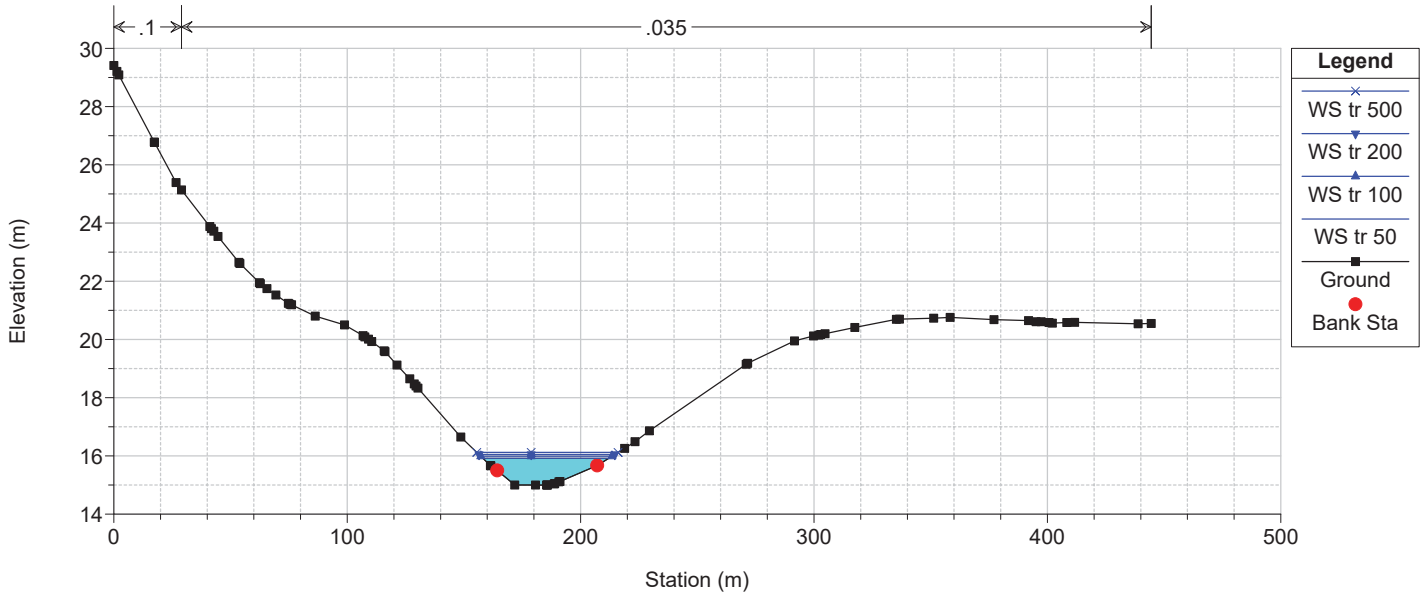
River = Rio Guidongias Reach = Asta 2 - 3 RS = 1694.631 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

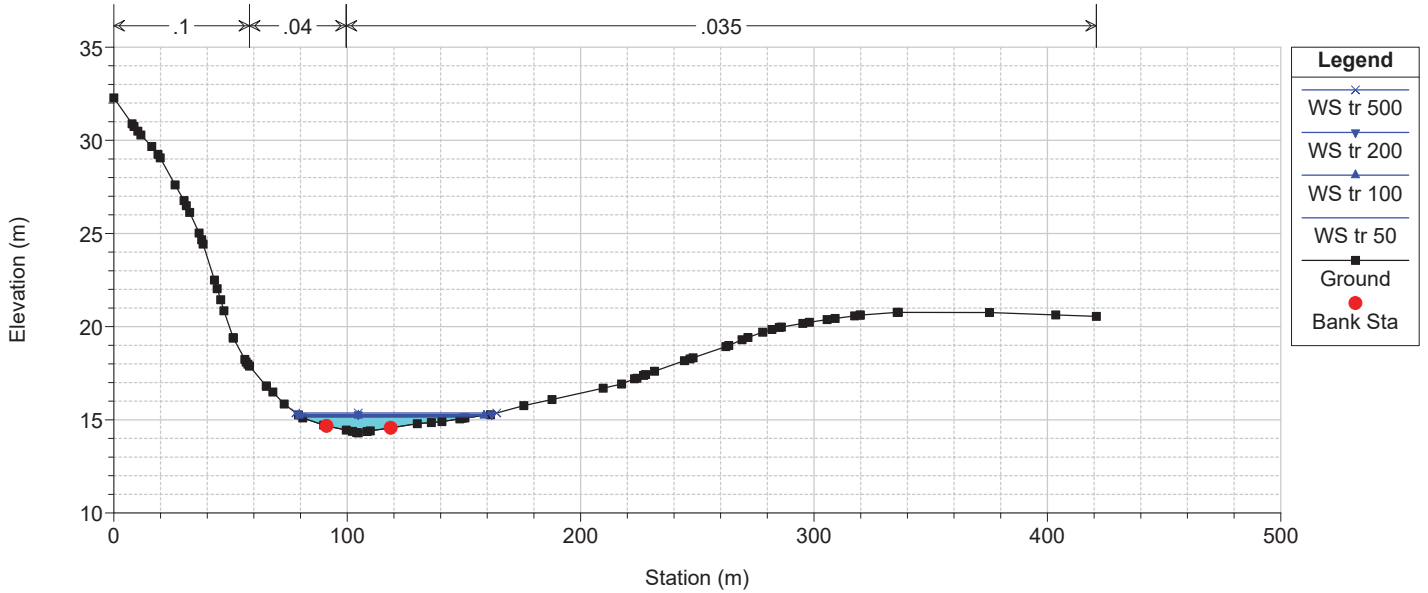
River = Rio Guidongias Reach = Asta 2 - 3 RS = 1606.547 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

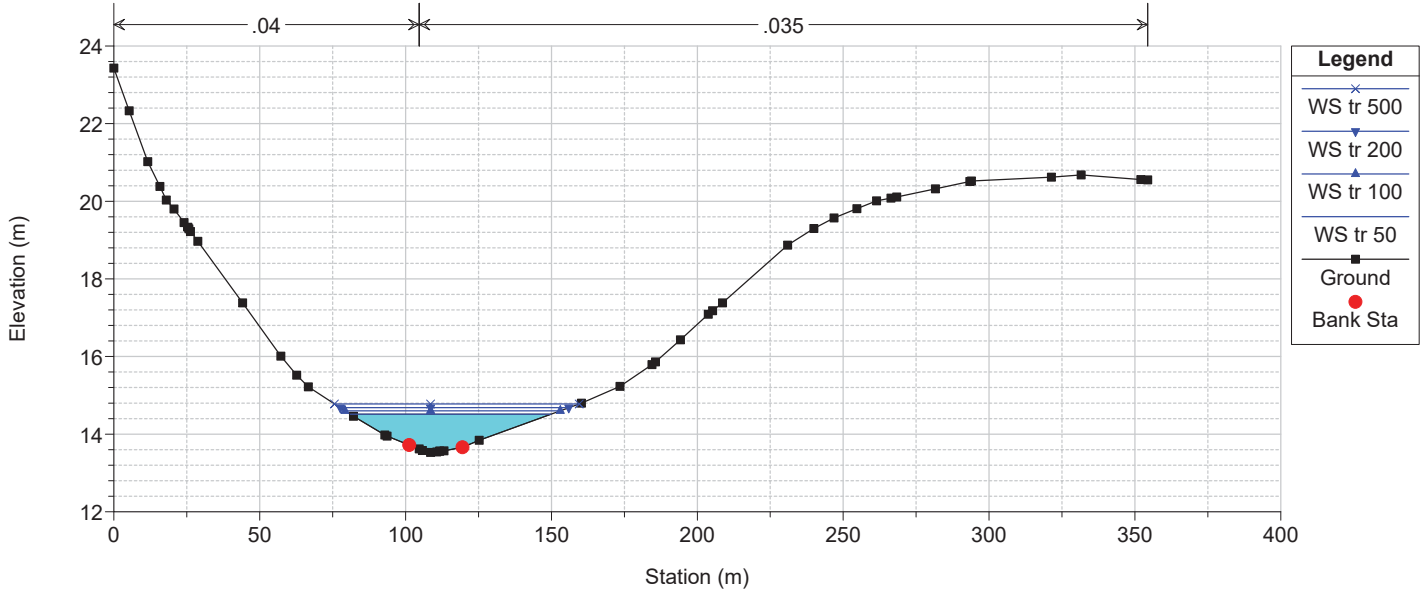
River = Rio Guidongias Reach = Asta 2 - 3 RS = 1480.787 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

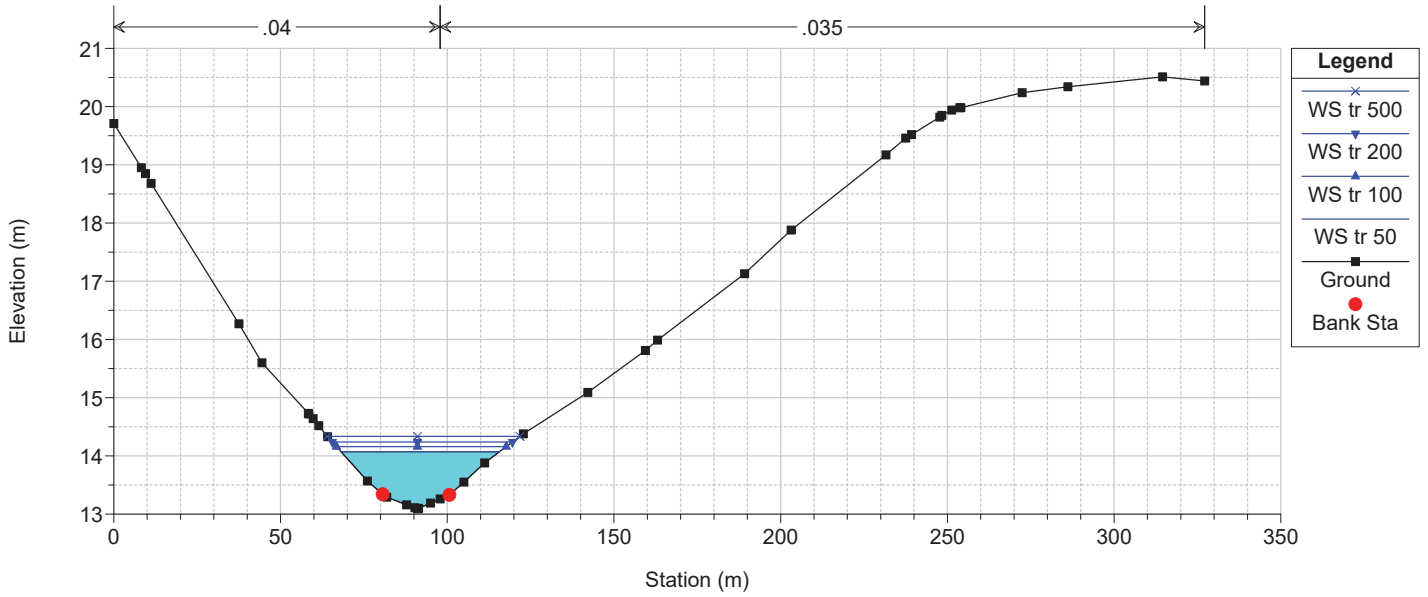
River = Rio Guidongias Reach = Asta 2 - 3 RS = 1358.268 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

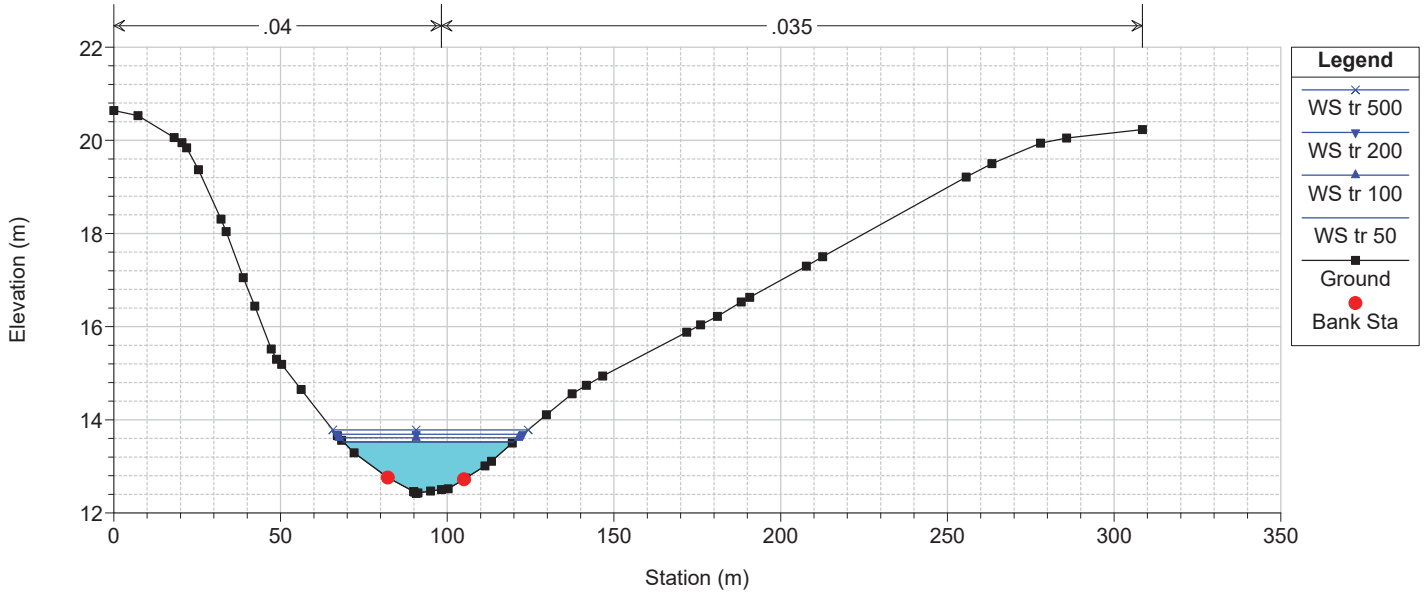
River = Rio Guidongias Reach = Asta 2 - 3 RS = 1299.691 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

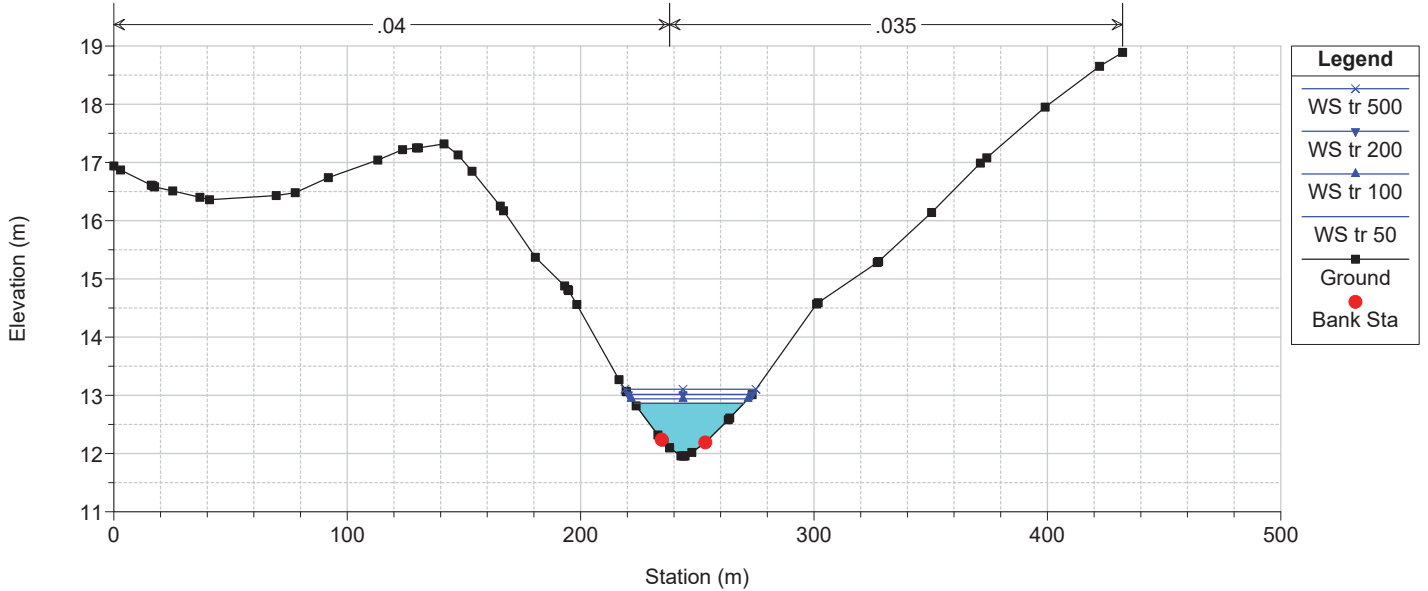
River = Rio Guidongias Reach = Asta 2 - 3 RS = 1201.662 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

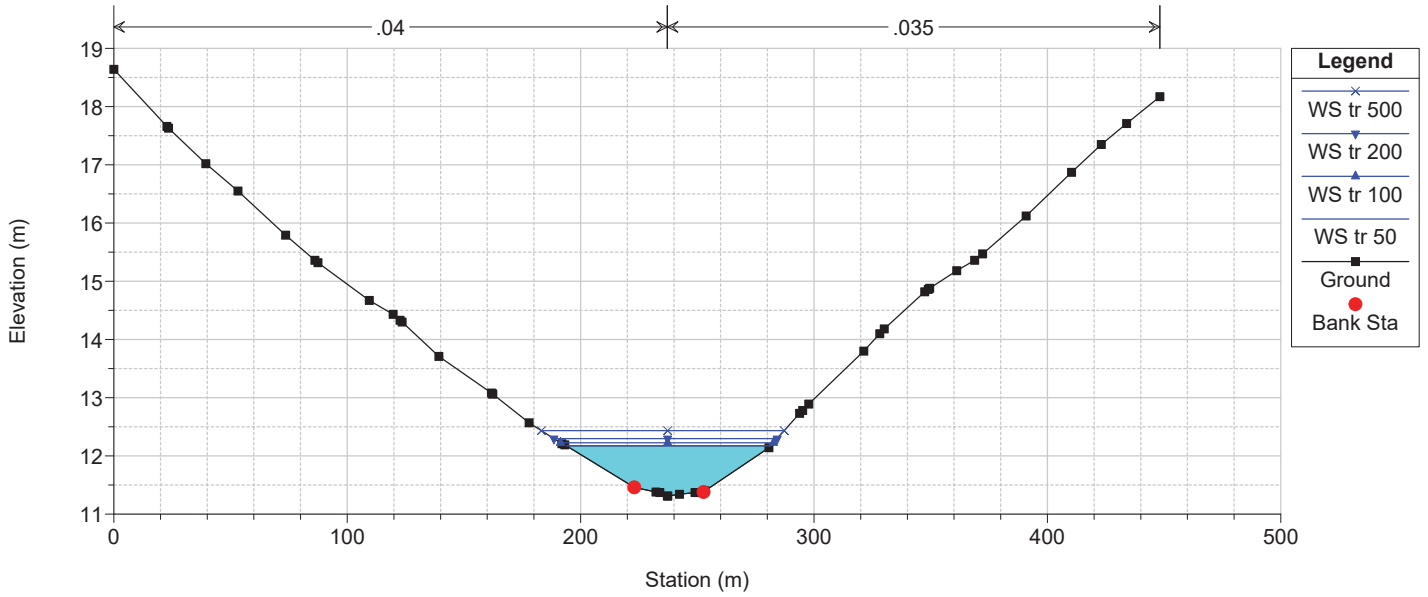
River = Rio Guidongias Reach = Asta 2 - 3 RS = 1125.589 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

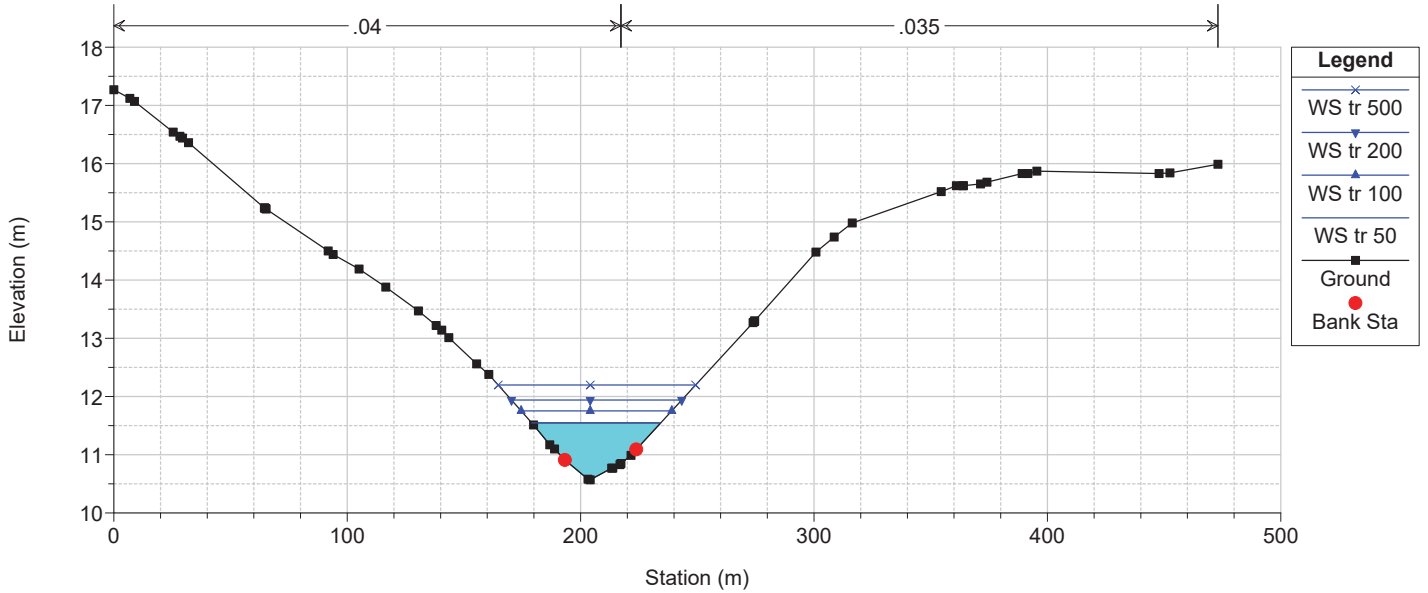
River = Rio Guidongias Reach = Asta 2 - 3 RS = 1002.289 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

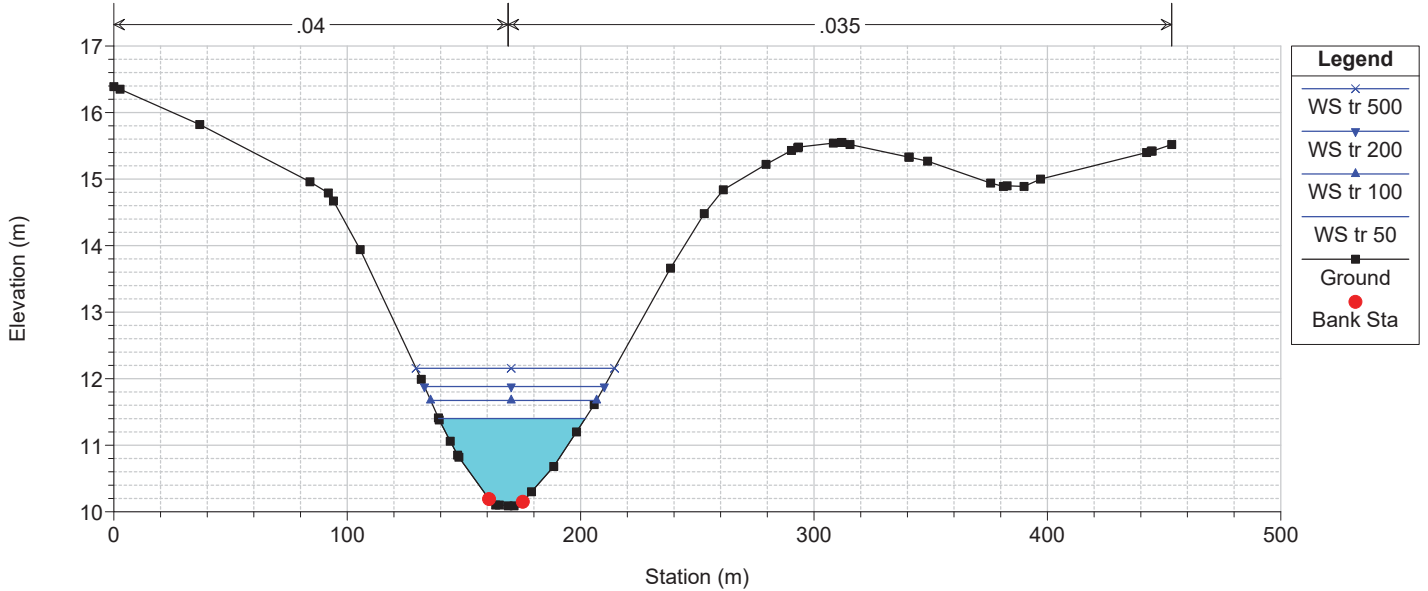
River = Rio Guidongias Reach = Asta 2 - 3 RS = 889.1185 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

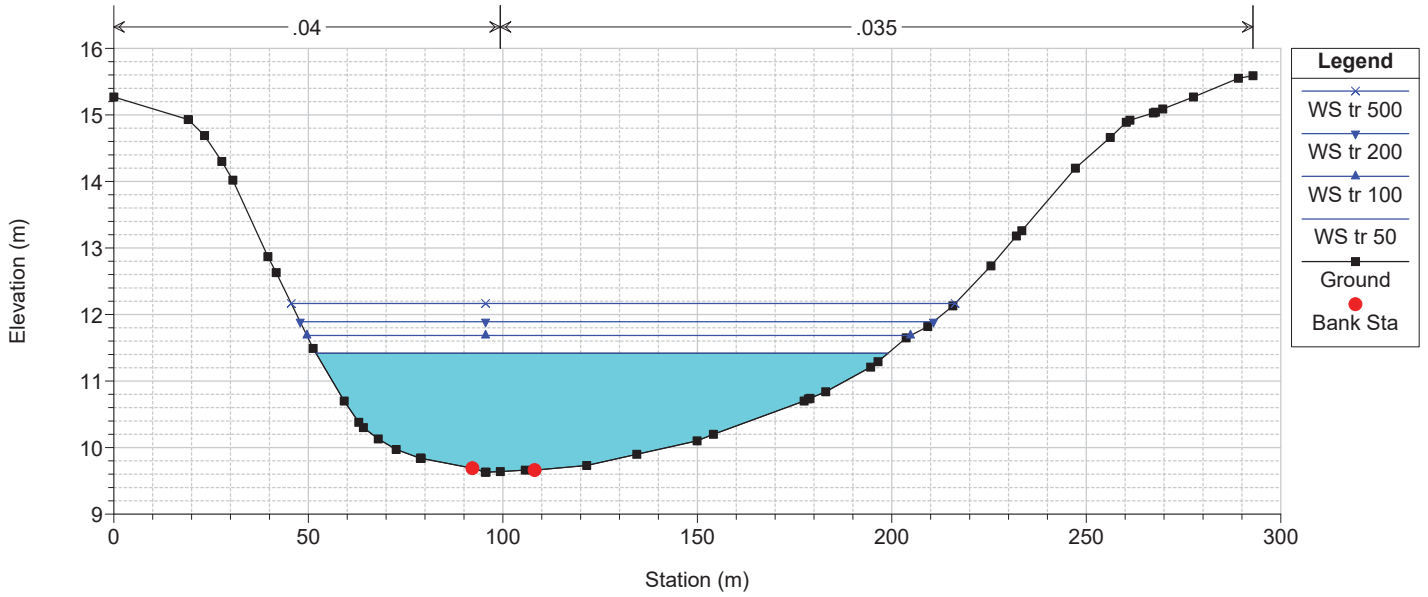
River = Rio Guidongias Reach = Asta 2 - 3 RS = 817.3105 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

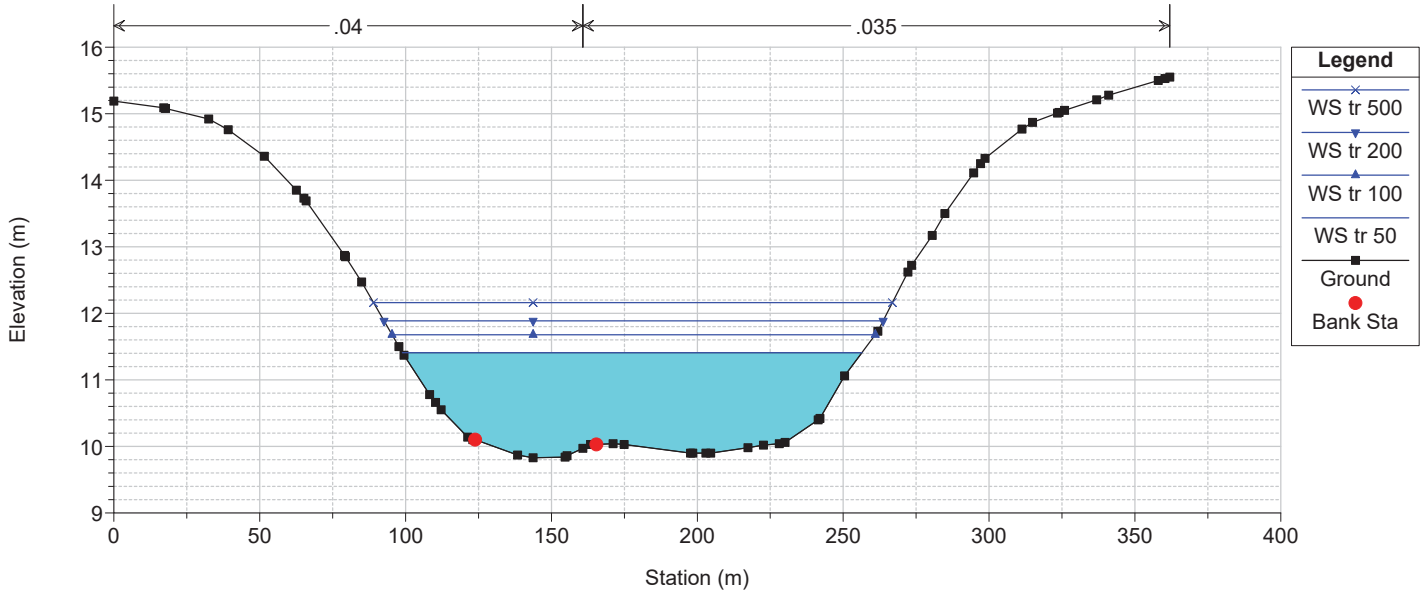
River = Rio Guidongias Reach = Asta 2 - 3 RS = 712.1385 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

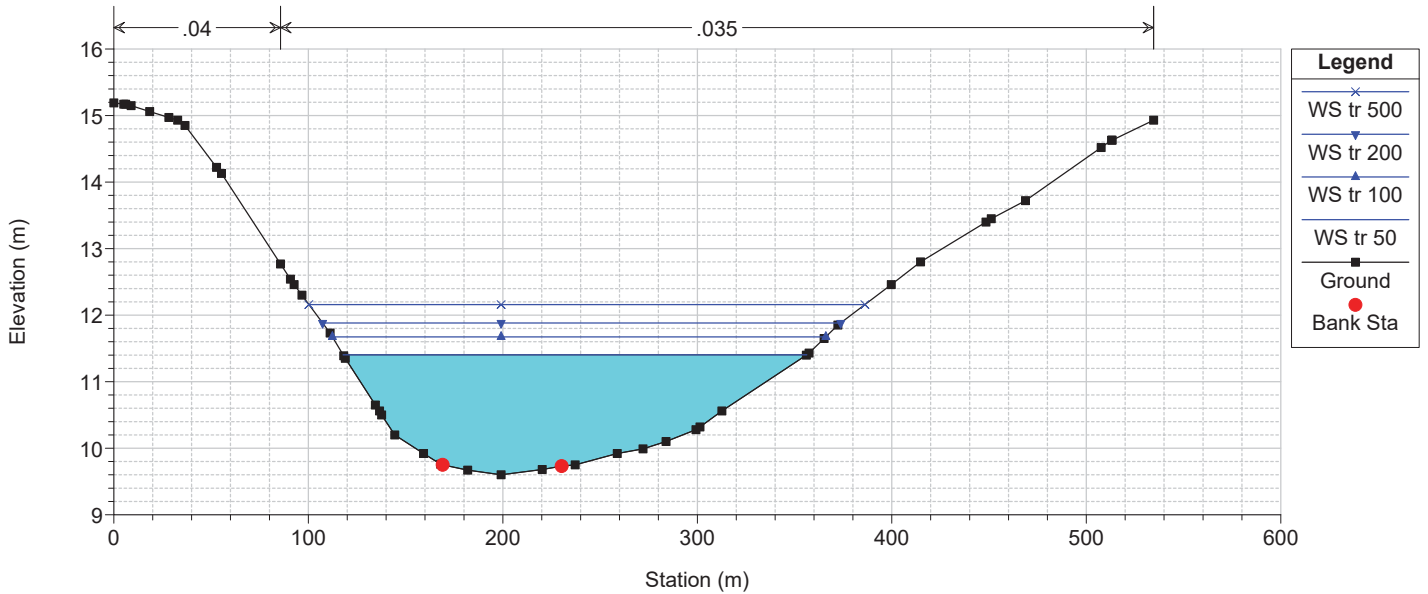
River = Rio Guidongias Reach = Asta 2 - 3 RS = 596.5081 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

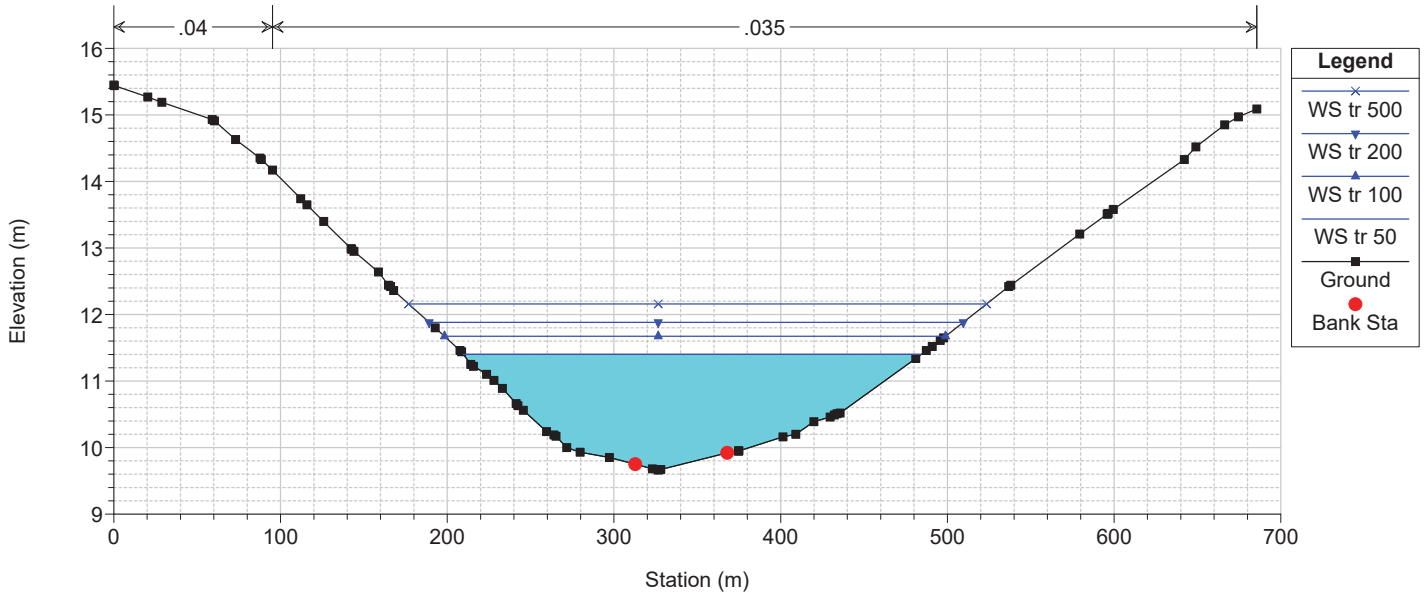
River = Rio Guidongias Reach = Asta 2 - 3 RS = 435.7049 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

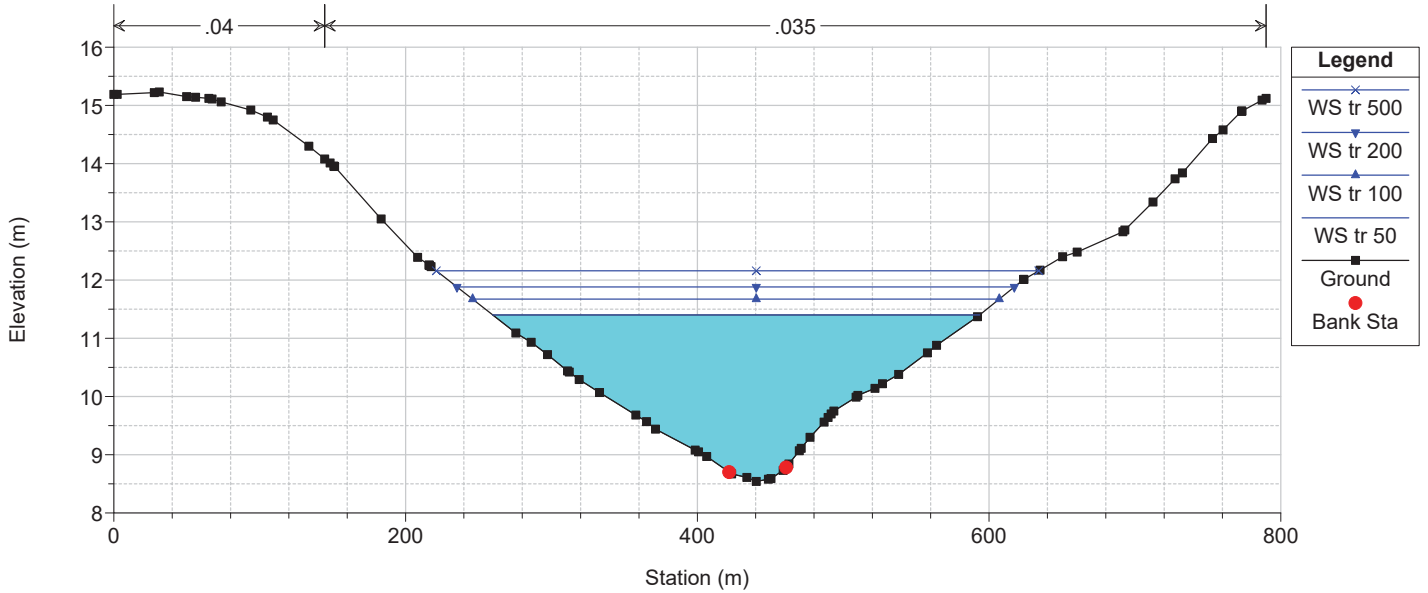
River = Rio Guidongias Reach = Asta 2 - 3 RS = 358.8138 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

River = Rio Guidongias Reach = Asta 2 - 3 RS = 260.3578 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



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	7700	tr 50	10.46	135.06	135.58	135.58	135.74	0.108359	1.92	6.19	19.17	0.92
Asta 1	7700	tr 100	12.15	135.06	135.62	135.62	135.79	0.106295	2.01	6.92	19.83	0.92
Asta 1	7700	tr 200	13.90	135.06	135.65	135.65	135.84	0.103906	2.08	7.67	20.46	0.92
Asta 1	7700	tr 500	16.45	135.06	135.70	135.70	135.91	0.101969	2.19	8.68	21.22	0.93
Asta 1	7599.205	tr 50	10.46	123.71	124.36	124.18	124.41	0.056552	1.03	10.63	26.99	0.47
Asta 1	7599.205	tr 100	12.15	123.71	124.39	124.21	124.45	0.057531	1.10	11.69	27.84	0.48
Asta 1	7599.205	tr 200	13.90	123.71	124.43	124.24	124.50	0.058158	1.15	12.75	28.58	0.49
Asta 1	7599.205	tr 500	16.45	123.71	124.49	124.29	124.56	0.058117	1.23	14.29	29.58	0.50
Asta 1	7500	tr 50	10.46	113.31	113.70	113.70	113.83	0.267898	1.75	7.04	27.86	0.93
Asta 1	7500	tr 100	12.15	113.31	113.73	113.73	113.87	0.258613	1.82	7.91	28.90	0.93
Asta 1	7500	tr 200	13.90	113.31	113.76	113.76	113.91	0.253223	1.89	8.76	29.67	0.93
Asta 1	7500	tr 500	16.45	113.31	113.80	113.80	113.96	0.254101	1.99	9.83	30.62	0.94
Asta 1	7368.799	tr 50	10.46	104.39	104.60	104.64	104.75	0.030889	1.79	6.33	40.26	1.29
Asta 1	7368.799	tr 100	12.15	104.39	104.61	104.66	104.78	0.031322	1.89	6.98	41.62	1.31
Asta 1	7368.799	tr 200	13.90	104.39	104.63	104.68	104.81	0.031467	1.99	7.64	42.96	1.33
Asta 1	7368.799	tr 500	16.45	104.39	104.65	104.71	104.86	0.031585	2.12	8.58	44.78	1.35
Asta 1	7300	tr 50	10.46	101.34	101.60	101.70	101.92	0.056740	2.84	4.35	28.94	1.96
Asta 1	7300	tr 100	12.15	101.34	101.61	101.72	101.97	0.055244	2.95	4.88	30.23	1.96
Asta 1	7300	tr 200	13.90	101.34	101.63	101.75	102.01	0.054405	3.07	5.40	31.44	1.97
Asta 1	7300	tr 500	16.45	101.34	101.65	101.78	102.06	0.053482	3.23	6.13	33.06	1.98
Asta 1	7200	tr 50	10.46	100.68	101.25	101.07	101.29	0.002225	1.04	12.19	32.45	0.45
Asta 1	7200	tr 100	12.15	100.68	101.29	101.10	101.34	0.002248	1.10	13.51	33.77	0.46
Asta 1	7200	tr 200	13.90	100.68	101.33	101.13	101.38	0.002261	1.15	14.85	35.05	0.47
Asta 1	7200	tr 500	16.45	100.68	101.38	101.17	101.44	0.002279	1.21	16.66	36.40	0.47
Asta 1	7164.761	tr 50	10.46	100.25	100.76		100.79	0.021196	0.90	14.05	40.23	0.41
Asta 1	7164.761	tr 100	12.15	100.25	100.79		100.82	0.022389	0.96	15.24	40.96	0.43
Asta 1	7164.761	tr 200	13.90	100.25	100.82		100.86	0.022851	1.01	16.55	41.60	0.44
Asta 1	7164.761	tr 500	16.45	100.25	100.86		100.90	0.023866	1.09	18.24	42.44	0.45
Asta 1	7141.196	tr 50	10.46	99.62	99.90	99.86	99.95	0.070914	1.04	11.21	57.78	0.67
Asta 1	7141.196	tr 100	12.15	99.62	99.93	99.88	99.98	0.065893	1.07	12.70	58.97	0.66
Asta 1	7141.196	tr 200	13.90	99.62	99.95	99.90	100.01	0.064998	1.12	13.95	59.96	0.66
Asta 1	7141.196	tr 500	16.45	99.62	99.98	99.92	100.04	0.062788	1.17	15.78	61.34	0.66
Asta 1	7100.815	tr 50	10.46	97.87	98.43		98.46	0.022474	0.89	13.02	37.85	0.42
Asta 1	7100.815	tr 100	12.15	97.87	98.46		98.50	0.023204	0.94	14.31	39.18	0.43
Asta 1	7100.815	tr 200	13.90	97.87	98.50		98.54	0.023010	0.99	15.79	40.66	0.44
Asta 1	7100.815	tr 500	16.45	97.87	98.55	98.34	98.60	0.023024	1.05	17.78	42.54	0.44
Asta 1	6995.575	tr 50	10.46	93.89	94.26	94.23	94.34	0.084314	1.26	8.35	36.96	0.82
Asta 1	6995.575	tr 100	12.15	93.89	94.29	94.26	94.37	0.079764	1.30	9.37	38.74	0.81
Asta 1	6995.575	tr 200	13.90	93.89	94.31	94.28	94.40	0.081633	1.38	10.09	39.71	0.83
Asta 1	6995.575	tr 500	16.45	93.89	94.33	94.31	94.44	0.082069	1.48	11.14	40.84	0.85
Asta 1	6901.316	tr 50	10.46	89.29	89.67	89.66	89.77	0.031563	1.34	9.02	41.96	0.74
Asta 1	6901.316	tr 100	12.15	89.29	89.69	89.69	89.80	0.032655	1.43	9.90	43.06	0.76
Asta 1	6901.316	tr 200	13.90	89.29	89.71	89.71	89.83	0.032172	1.48	10.93	44.31	0.76
Asta 1	6901.316	tr 500	16.45	89.29	89.74	89.74	89.88	0.032045	1.56	12.31	45.93	0.77
Asta 1	6818.769	tr 50	10.46	87.48	87.79	87.79	87.95	0.015894	1.10	6.20	20.89	0.84
Asta 1	6818.769	tr 100	12.15	87.48	87.83	87.83	88.00	0.015314	1.11	7.01	21.85	0.81
Asta 1	6818.769	tr 200	13.90	87.48	87.86	87.86	88.05	0.015254	1.16	7.75	22.69	0.78
Asta 1	6818.769	tr 500	16.45	87.48	87.91	87.91	88.11	0.014959	1.21	8.85	23.86	0.75
Asta 2 - 3	6745.172	tr 50	33.42	85.88	86.21	86.60	88.62	0.399087	7.16	5.09	23.99	4.43
Asta 2 - 3	6745.172	tr 100	40.45	85.88	86.26	86.67	88.67	0.340372	7.22	6.21	25.79	4.13
Asta 2 - 3	6745.172	tr 200	47.63	85.88	86.30	86.74	88.73	0.297947	7.28	7.35	27.46	3.91
Asta 2 - 3	6745.172	tr 500	57.29	85.88	86.35	86.82	88.80	0.257322	7.36	8.90	29.57	3.68
Asta 2 - 3	6700.51	tr 50	33.42	85.20	85.88	85.83	86.06	0.010128	1.87	18.58	42.17	0.82
Asta 2 - 3	6700.51	tr 100	40.45	85.20	85.94	85.90	86.14	0.010606	2.04	20.83	44.07	0.86
Asta 2 - 3	6700.51	tr 200	47.63	85.20	85.92	85.96	86.22	0.015798	2.46	20.33	43.65	1.04
Asta 2 - 3	6700.51	tr 500	57.29	85.20	85.98	86.04	86.33	0.016144	2.65	22.91	45.75	1.07
Asta 2 - 3	6600.263	tr 50	33.42	83.94	84.66	84.66	84.91	0.013062	2.27	16.02	35.31	0.95
Asta 2 - 3	6600.263	tr 100	40.45	83.94	84.74	84.74	85.00	0.012150	2.37	18.76	37.28	0.94
Asta 2 - 3	6600.263	tr 200	47.63	83.94	84.80	84.80	85.09	0.011793	2.49	21.22	38.75	0.94
Asta 2 - 3	6600.263	tr 500	57.29	83.94	84.88	84.88	85.20	0.011340	2.62	24.45	40.60	0.94
Asta 2 - 3	6499.702	tr 50	33.42	82.22	82.88	82.97	83.25	0.021061	2.85	12.96	29.94	1.21
Asta 2 - 3	6499.702	tr 100	40.45	82.22	82.93	83.04	83.37	0.022168	3.10	14.55	31.15	1.25
Asta 2 - 3	6499.702	tr 200	47.63	82.22	82.98	83.12	83.47	0.022445	3.29	16.25	32.40	1.28
Asta 2 - 3	6499.702	tr 500	57.29	82.22	83.05	83.20	83.61	0.022770	3.53	18.42	34.02	1.31
Asta 2 - 3	6400.004	tr 50	33.42	79.86	80.42	80.53	80.80	0.029211	3.15	12.96	35.78	1.40
Asta 2 - 3	6400.004	tr 100	40.45	79.86	80.48	80.59	80.88	0.028013	3.30	15.00	37.37	1.39
Asta 2 - 3	6400.004	tr 200	47.63	79.86	80.53	80.65	80.97	0.027942	3.48	16.81	38.73	1.41

HEC-RAS Plan: Plan 02 (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 2 - 3	6400.004	tr 500	57.29	79.86	80.58	80.72	81.08	0.027891	3.69	19.11	40.27	1.43
Asta 2 - 3	6333.508	tr 50	33.42	78.87	79.64	79.64	79.89	0.018264	2.44	17.87	37.23	0.92
Asta 2 - 3	6333.508	tr 100	40.45	78.87	79.71	79.71	79.98	0.018455	2.60	20.43	39.40	0.93
Asta 2 - 3	6333.508	tr 200	47.63	78.87	79.78	79.78	80.07	0.017860	2.71	23.27	41.68	0.93
Asta 2 - 3	6333.508	tr 500	57.29	78.87	79.88	79.88	80.18	0.016604	2.80	27.32	44.57	0.92
Asta 2 - 3	6271.83	tr 50	33.42	78.09	78.87	78.81	79.05	0.010034	1.98	18.56	38.08	0.79
Asta 2 - 3	6271.83	tr 100	40.45	78.09	78.94	78.88	79.15	0.009620	2.08	21.60	40.20	0.78
Asta 2 - 3	6271.83	tr 200	47.63	78.09	79.02	78.94	79.23	0.009239	2.17	24.65	42.28	0.78
Asta 2 - 3	6271.83	tr 500	57.29	78.09	79.11	79.03	79.34	0.008785	2.27	28.71	44.97	0.77
Asta 2 - 3	6208.721	tr 50	33.42	77.19	78.28		78.36	0.011012	1.25	28.25	38.88	0.41
Asta 2 - 3	6208.721	tr 100	40.45	77.19	78.39		78.47	0.010687	1.32	32.48	40.84	0.41
Asta 2 - 3	6208.721	tr 200	47.63	77.19	78.49		78.58	0.010336	1.39	36.73	42.71	0.41
Asta 2 - 3	6208.721	tr 500	57.29	77.19	78.62		78.72	0.009838	1.45	42.35	44.66	0.41
Asta 2 - 3	6163.792	tr 50	33.42	76.67	77.84		77.97	0.006792	1.65	22.67	30.95	0.53
Asta 2 - 3	6163.792	tr 100	40.45	76.67	77.96		78.10	0.006466	1.74	26.50	32.66	0.52
Asta 2 - 3	6163.792	tr 200	47.63	76.67	78.08		78.22	0.006229	1.82	30.24	34.17	0.52
Asta 2 - 3	6163.792	tr 500	57.29	76.67	78.22		78.38	0.005919	1.91	35.30	36.38	0.52
Asta 2 - 3	6100	tr 50	33.42	75.85	77.13	76.93	77.34	0.014692	2.07	16.73	20.69	0.68
Asta 2 - 3	6100	tr 100	40.45	75.85	77.23	77.03	77.48	0.015256	2.24	18.89	21.58	0.70
Asta 2 - 3	6100	tr 200	47.63	75.85	77.33	77.13	77.61	0.015571	2.39	21.05	22.43	0.71
Asta 2 - 3	6100	tr 500	57.29	75.85	77.44	77.26	77.77	0.016190	2.59	23.68	23.43	0.73
Asta 2 - 3	6000	tr 50	33.42	73.60	74.59	74.59	74.92	0.046822	2.76	14.51	22.96	0.94
Asta 2 - 3	6000	tr 100	40.45	73.60	74.69	74.69	75.04	0.044316	2.90	16.85	24.15	0.93
Asta 2 - 3	6000	tr 200	47.63	73.60	74.78	74.78	75.16	0.043408	3.05	18.99	25.20	0.94
Asta 2 - 3	6000	tr 500	57.29	73.60	74.89	74.89	75.31	0.041381	3.19	21.94	26.58	0.94
Asta 2 - 3	5900	tr 50	33.42	69.71	70.98	70.49	71.07	0.008988	1.32	26.58	27.45	0.39
Asta 2 - 3	5900	tr 100	40.45	69.71	71.12	70.58	71.21	0.008834	1.41	30.25	28.38	0.40
Asta 2 - 3	5900	tr 200	47.63	69.71	71.24	70.66	71.35	0.008671	1.49	33.86	29.31	0.40
Asta 2 - 3	5900	tr 500	57.29	69.71	71.39	70.76	71.51	0.008586	1.60	38.35	30.42	0.41
Asta 2 - 3	5800	tr 50	33.42	67.71	69.26		69.49	0.033837	2.17	16.23	18.00	0.61
Asta 2 - 3	5800	tr 100	40.45	67.71	69.38		69.65	0.034429	2.32	18.41	18.96	0.62
Asta 2 - 3	5800	tr 200	47.63	67.71	69.48		69.78	0.035330	2.47	20.43	19.78	0.64
Asta 2 - 3	5800	tr 500	57.29	67.71	69.62		69.96	0.035289	2.61	23.22	20.88	0.65
Asta 2 - 3	5700	tr 50	33.42	66.11	67.71		67.85	0.009503	1.73	22.37	22.70	0.46
Asta 2 - 3	5700	tr 100	40.45	66.11	67.86		68.01	0.009243	1.82	25.85	23.99	0.47
Asta 2 - 3	5700	tr 200	47.63	66.11	68.01		68.17	0.008934	1.90	29.39	25.26	0.46
Asta 2 - 3	5700	tr 500	57.29	66.11	68.17		68.35	0.008789	2.01	33.75	26.75	0.47
Asta 2 - 3	5600	tr 50	33.42	64.61	65.83	65.70	66.08	0.042419	2.48	15.89	21.07	0.82
Asta 2 - 3	5600	tr 100	40.45	64.61	65.90	65.81	66.21	0.047551	2.77	17.37	21.79	0.89
Asta 2 - 3	5600	tr 200	47.63	64.61	65.95	65.91	66.34	0.054280	3.07	18.53	22.35	0.96
Asta 2 - 3	5600	tr 500	57.29	64.61	66.04	66.04	66.50	0.058400	3.38	20.47	23.24	1.01
Asta 2 - 3	5500	tr 50	33.42	62.98	63.70	63.70	63.94	0.012890	2.27	15.98	34.88	0.95
Asta 2 - 3	5500	tr 100	40.45	62.98	63.77	63.77	64.04	0.012336	2.39	18.61	37.08	0.94
Asta 2 - 3	5500	tr 200	47.63	62.98	63.84	63.84	64.13	0.011704	2.49	21.33	39.19	0.93
Asta 2 - 3	5500	tr 500	57.29	62.98	63.92	63.93	64.24	0.011597	2.64	24.47	41.56	0.94
Asta 2 - 3	5397.388	tr 50	33.42	57.60	60.25	58.99	60.39	0.001769	1.69	22.64	29.93	0.35
Asta 2 - 3	5397.388	tr 100	40.45	57.60	60.37	59.17	60.53	0.002050	1.88	26.40	35.50	0.38
Asta 2 - 3	5397.388	tr 200	47.63	57.60	60.45	59.35	60.65	0.002365	2.07	29.64	39.86	0.41
Asta 2 - 3	5397.388	tr 500	57.29	57.60	58.77	59.57	61.53	0.076907	7.35	7.80	7.08	2.24
Asta 2 - 3	5378.653		Culvert									
Asta 2 - 3	5358.855	tr 50	33.42	56.60	60.06		60.12	0.006738	1.04	35.11	58.78	0.25
Asta 2 - 3	5358.855	tr 100	40.45	56.60	60.18		60.24	0.007308	1.13	42.74	73.07	0.27
Asta 2 - 3	5358.855	tr 200	47.63	56.60	60.27		60.34	0.007686	1.20	50.32	81.61	0.28
Asta 2 - 3	5358.855	tr 500	57.29	56.60	60.39		60.46	0.007993	1.27	60.04	88.92	0.28
Asta 2 - 3	5290.063	tr 50	33.42	58.47	59.50	59.10	59.54	0.010613	1.00	41.08	67.00	0.33
Asta 2 - 3	5290.063	tr 100	40.45	58.47	59.59	59.16	59.63	0.010823	1.07	47.06	71.62	0.33
Asta 2 - 3	5290.063	tr 200	47.63	58.47	59.67	59.22	59.72	0.010968	1.13	53.01	76.31	0.34
Asta 2 - 3	5290.063	tr 500	57.29	58.47	59.77	59.29	59.82	0.011272	1.21	60.63	83.21	0.35
Asta 2 - 3	5246.534	tr 50	33.42	57.71	58.36	58.33	58.52	0.087550	1.90	19.83	51.87	0.85
Asta 2 - 3	5246.534	tr 100	40.45	57.71	58.41	58.38	58.59	0.087760	2.03	22.67	54.46	0.86
Asta 2 - 3	5246.534	tr 200	47.63	57.71	58.46	58.43	58.66	0.089166	2.16	25.31	56.77	0.88
Asta 2 - 3	5246.534	tr 500	57.29	57.71	58.52	58.50	58.75	0.087268	2.29	29.09	59.94	0.88
Asta 2 - 3	5193.645	tr 50	33.42	56.56	57.51		57.53	0.007420	0.70	52.71	92.04	0.26
Asta 2 - 3	5193.645	tr 100	40.45	56.56	57.60		57.62	0.007224	0.74	60.79	97.06	0.26
Asta 2 - 3	5193.645	tr 200	47.63	56.56	57.68		57.70	0.007022	0.78	68.71	101.05	0.26
Asta 2 - 3	5193.645	tr 500	57.29	56.56	57.77		57.80	0.006851	0.83	78.78	105.92	0.26

HEC-RAS Plan: Plan 02 (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 2 - 3	5121.535	tr 50	33.42	55.82	56.86		56.90	0.010845	0.92	39.45	61.23	0.32
Asta 2 - 3	5121.535	tr 100	40.45	55.82	56.94		56.99	0.011166	0.99	44.63	64.22	0.33
Asta 2 - 3	5121.535	tr 200	47.63	55.82	57.02		57.07	0.011339	1.05	49.80	67.08	0.34
Asta 2 - 3	5121.535	tr 500	57.29	55.82	57.12		57.18	0.011552	1.13	56.40	70.46	0.35
Asta 2 - 3	5054.055	tr 50	33.42	54.44	55.15	55.15	55.38	0.068871	2.21	16.45	37.21	0.93
Asta 2 - 3	5054.055	tr 100	40.45	54.44	55.22	55.22	55.47	0.063572	2.31	19.25	39.54	0.91
Asta 2 - 3	5054.055	tr 200	47.63	54.44	55.28	55.28	55.55	0.061308	2.42	21.77	41.17	0.91
Asta 2 - 3	5054.055	tr 500	57.29	54.44	55.36	55.36	55.66	0.058576	2.54	25.05	43.13	0.91
Asta 2 - 3	4999.683	tr 50	33.42	53.22	54.37	53.84	54.40	0.004650	0.88	42.14	54.52	0.28
Asta 2 - 3	4999.683	tr 100	40.45	53.22	54.47	53.91	54.51	0.004717	0.95	47.77	57.00	0.28
Asta 2 - 3	4999.683	tr 200	47.63	53.22	54.56	53.97	54.61	0.004764	1.01	53.21	59.13	0.29
Asta 2 - 3	4999.683	tr 500	57.29	53.22	54.68	54.04	54.73	0.004836	1.08	60.05	61.66	0.30
Asta 2 - 3	4951.347	tr 50	33.42	53.02	53.93		54.05	0.011964	1.63	23.34	38.96	0.58
Asta 2 - 3	4951.347	tr 100	40.45	53.02	54.02		54.16	0.011923	1.74	26.81	40.96	0.59
Asta 2 - 3	4951.347	tr 200	47.63	53.02	54.10		54.25	0.011934	1.84	30.17	42.81	0.60
Asta 2 - 3	4951.347	tr 500	57.29	53.02	54.20		54.37	0.011897	1.96	34.53	45.09	0.61
Asta 2 - 3	4893.191	tr 50	33.42	52.42	53.36		53.47	0.008456	1.50	23.51	37.66	0.55
Asta 2 - 3	4893.191	tr 100	40.45	52.42	53.45		53.58	0.008262	1.59	27.19	39.70	0.55
Asta 2 - 3	4893.191	tr 200	47.63	52.42	53.54		53.68	0.008104	1.67	30.78	41.31	0.55
Asta 2 - 3	4893.191	tr 500	57.29	52.42	53.65		53.80	0.007895	1.77	35.48	43.31	0.55
Asta 2 - 3	4800	tr 50	33.42	51.26	52.13	52.02	52.31	0.019642	1.94	18.89	33.37	0.73
Asta 2 - 3	4800	tr 100	40.45	51.26	52.20	52.10	52.41	0.020582	2.11	21.26	34.64	0.76
Asta 2 - 3	4800	tr 200	47.63	51.26	52.26	52.17	52.51	0.021402	2.27	23.53	35.81	0.79
Asta 2 - 3	4800	tr 500	57.29	51.26	52.34	52.26	52.63	0.022727	2.47	26.25	37.18	0.82
Asta 2 - 3	4728.421	tr 50	33.42	50.14	50.86		51.00	0.016707	1.74	22.21	45.59	0.69
Asta 2 - 3	4728.421	tr 100	40.45	50.14	50.94		51.10	0.016138	1.84	25.83	47.57	0.69
Asta 2 - 3	4728.421	tr 200	47.63	50.14	51.01		51.18	0.015623	1.93	29.41	49.44	0.69
Asta 2 - 3	4728.421	tr 500	57.29	50.14	51.11		51.29	0.014884	2.03	34.22	51.88	0.69
Asta 2 - 3	4637.86	tr 50	33.42	48.65	49.97		50.08	0.006723	1.54	24.02	33.67	0.49
Asta 2 - 3	4637.86	tr 100	40.45	48.65	50.11		50.23	0.006207	1.60	29.06	39.14	0.48
Asta 2 - 3	4637.86	tr 200	47.63	48.65	50.24		50.36	0.005758	1.65	34.36	42.98	0.46
Asta 2 - 3	4637.86	tr 500	57.29	48.65	50.40		50.53	0.005261	1.70	41.57	46.99	0.45
Asta 2 - 3	4551.124	tr 50	33.42	46.89	48.79		49.02	0.027837	2.25	16.83	14.55	0.57
Asta 2 - 3	4551.124	tr 100	40.45	46.89	48.93		49.20	0.029449	2.44	18.92	15.25	0.59
Asta 2 - 3	4551.124	tr 200	47.63	46.89	49.06		49.37	0.030973	2.63	20.91	15.89	0.62
Asta 2 - 3	4551.124	tr 500	57.29	46.89	49.21		49.57	0.032933	2.86	23.39	16.66	0.64
Asta 2 - 3	4495.6	tr 50	33.42	46.38	47.68	47.49	47.93	0.014490	2.29	15.94	19.06	0.70
Asta 2 - 3	4495.6	tr 100	40.45	46.38	47.80	47.61	48.09	0.014445	2.45	18.36	20.16	0.71
Asta 2 - 3	4495.6	tr 200	47.63	46.38	47.91	47.73	48.23	0.014408	2.59	20.72	21.17	0.72
Asta 2 - 3	4495.6	tr 500	57.29	46.38	48.06	47.86	48.41	0.014346	2.76	23.79	22.34	0.73
Asta 2 - 3	4400	tr 50	33.42	44.64	45.69	45.48	45.83	0.035775	1.77	20.42	29.19	0.59
Asta 2 - 3	4400	tr 100	40.45	44.64	45.76	45.56	45.94	0.038497	1.93	22.63	30.12	0.62
Asta 2 - 3	4400	tr 200	47.63	44.64	45.83	45.64	46.03	0.041015	2.08	24.69	30.89	0.65
Asta 2 - 3	4400	tr 500	57.29	44.64	45.91	45.75	46.15	0.044610	2.28	27.14	31.74	0.69
Asta 2 - 3	4300	tr 50	33.42	42.92	43.64	43.64	43.87	0.012321	2.30	16.69	37.35	0.93
Asta 2 - 3	4300	tr 100	40.45	42.92	43.70	43.70	43.96	0.011937	2.42	19.31	39.38	0.94
Asta 2 - 3	4300	tr 200	47.63	42.92	43.77	43.77	44.04	0.011648	2.54	21.88	41.27	0.94
Asta 2 - 3	4300	tr 500	57.29	42.92	43.85	43.85	44.15	0.011276	2.67	25.25	43.63	0.94
Asta 2 - 3	4200	tr 50	49.40	41.38	42.70	42.08	42.73	0.000828	0.89	61.39	73.34	0.27
Asta 2 - 3	4200	tr 100	59.45	41.38	42.76	42.15	42.81	0.000982	1.01	65.94	75.53	0.29
Asta 2 - 3	4200	tr 200	69.65	41.38	42.81	42.22	42.87	0.001137	1.12	70.08	77.47	0.32
Asta 2 - 3	4200	tr 500	83.29	41.38	42.88	42.30	42.95	0.001333	1.25	75.26	79.75	0.35
Asta 2 - 3	4100	tr 50	49.40	41.03	42.70		42.70	0.000105	0.36	157.50	180.77	0.10
Asta 2 - 3	4100	tr 100	59.45	41.03	42.76		42.77	0.000125	0.40	168.98	186.69	0.11
Asta 2 - 3	4100	tr 200	69.65	41.03	42.82		42.82	0.000145	0.45	179.57	190.70	0.12
Asta 2 - 3	4100	tr 500	83.29	41.03	42.88		42.89	0.000169	0.50	192.88	194.93	0.13
Asta 2 - 3	4000	tr 50	49.40	40.45	42.70		42.70	0.000005	0.12	497.48	358.01	0.03
Asta 2 - 3	4000	tr 100	59.45	40.45	42.76		42.76	0.000007	0.14	520.20	363.47	0.03
Asta 2 - 3	4000	tr 200	69.65	40.45	42.82		42.82	0.000009	0.16	540.89	368.38	0.03
Asta 2 - 3	4000	tr 500	83.29	40.45	42.89		42.89	0.000011	0.18	566.80	374.29	0.04
Asta 2 - 3	3900	tr 50	49.40	40.61	42.70	41.16	42.70	0.000020	0.23	262.71	219.82	0.05
Asta 2 - 3	3900	tr 100	59.45	40.61	42.76	41.21	42.76	0.000025	0.26	276.62	227.08	0.06
Asta 2 - 3	3900	tr 200	69.65	40.61	42.81	41.26	42.82	0.000030	0.29	289.46	233.59	0.07
Asta 2 - 3	3900	tr 500	83.29	40.61	42.88	41.31	42.89	0.000038	0.33	305.74	240.09	0.07
Asta 2 - 3	3800	tr 50	49.40	40.74	42.69	41.34	42.70	0.000047	0.34	178.30	148.81	0.08
Asta 2 - 3	3800	tr 100	59.45	40.74	42.75	41.40	42.76	0.000060	0.39	187.42	152.03	0.09

HEC-RAS Plan: Plan 02 (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 2 - 3	3800	tr 200	69.65	40.74	42.81	41.45	42.81	0.000073	0.44	195.71	154.90	0.10
Asta 2 - 3	3800	tr 500	83.29	40.74	42.87	41.51	42.88	0.000090	0.51	206.09	158.42	0.11
Asta 2 - 3	3700	tr 50	49.40	40.91	42.69	41.44	42.69	0.000040	0.29	213.49	215.74	0.07
Asta 2 - 3	3700	tr 100	59.45	40.91	42.75	41.49	42.75	0.000050	0.33	226.58	221.87	0.08
Asta 2 - 3	3700	tr 200	69.65	40.91	42.80	41.53	42.81	0.000060	0.37	238.54	227.20	0.09
Asta 2 - 3	3700	tr 500	83.29	40.91	42.87	41.59	42.87	0.000072	0.42	253.58	233.34	0.10
Asta 2 - 3	3600	tr 50	49.40	41.15	42.69		42.69	0.000007	0.10	525.71	476.87	0.03
Asta 2 - 3	3600	tr 100	59.45	41.15	42.75		42.75	0.000008	0.11	554.59	484.45	0.03
Asta 2 - 3	3600	tr 200	69.65	41.15	42.80		42.80	0.000010	0.13	580.71	491.20	0.03
Asta 2 - 3	3600	tr 500	83.29	41.15	42.87		42.87	0.000012	0.15	613.26	499.48	0.04
Asta 2 - 3	3500	tr 50	49.40	42.01	42.57	42.51	42.68	0.005768	1.62	37.62	115.00	0.72
Asta 2 - 3	3500	tr 100	59.45	42.01	42.62	42.56	42.73	0.005587	1.69	43.67	123.19	0.72
Asta 2 - 3	3500	tr 200	69.65	42.01	42.67	42.60	42.79	0.005554	1.77	49.11	128.67	0.73
Asta 2 - 3	3500	tr 500	83.29	42.01	42.72	42.66	42.85	0.005436	1.86	56.28	134.33	0.73
Asta 2 - 3	3419.624	tr 50	49.40	41.04	41.69	41.69	41.89	0.010852	2.00	25.29	63.09	0.97
Asta 2 - 3	3419.624	tr 100	59.45	41.04	41.75	41.75	41.97	0.010596	2.12	28.95	67.06	0.97
Asta 2 - 3	3419.624	tr 200	69.65	41.04	41.81	41.81	42.05	0.009982	2.21	32.76	70.71	0.96
Asta 2 - 3	3419.624	tr 500	83.29	41.04	41.87	41.87	42.14	0.009364	2.32	37.75	75.11	0.95
Asta 2 - 3	3400	tr 50	49.40	40.62	41.36	41.40	41.65	0.013179	2.40	21.02	46.13	1.09
Asta 2 - 3	3400	tr 100	59.45	40.62	41.44	41.47	41.74	0.012082	2.47	24.65	48.92	1.06
Asta 2 - 3	3400	tr 200	69.65	40.62	41.51	41.54	41.83	0.011310	2.55	28.14	51.26	1.04
Asta 2 - 3	3400	tr 500	83.29	40.62	41.60	41.62	41.94	0.010246	2.63	32.88	54.52	1.01
Asta 2 - 3	3338.76	tr 50	49.40	28.58	29.85	29.48	29.94	0.002617	1.45	42.53	61.03	0.43
Asta 2 - 3	3338.76	tr 100	59.45	28.58	28.92	29.56	38.02	1.993933	13.42	4.50	22.15	9.03
Asta 2 - 3	3338.76	tr 200	69.65	28.58	28.95	29.63	38.53	1.790801	13.81	5.17	23.36	8.74
Asta 2 - 3	3338.76	tr 500	83.29	28.58	28.99	29.72	38.84	1.526755	14.07	6.15	25.03	8.27
Asta 2 - 3	3276.439	tr 50	49.40	28.38	29.28	29.28	29.59	0.015202	2.55	21.32	36.67	0.93
Asta 2 - 3	3276.439	tr 100	59.45	28.38	29.23	29.37	29.76	0.028594	3.34	19.42	35.44	1.27
Asta 2 - 3	3276.439	tr 200	69.65	28.38	29.28	29.46	29.90	0.030455	3.60	21.26	36.63	1.32
Asta 2 - 3	3276.439	tr 500	83.29	28.38	29.35	29.56	30.06	0.031702	3.89	23.82	38.22	1.37
Asta 2 - 3	3199.66	tr 50	49.40	27.49	28.46	28.29	28.62	0.006743	1.85	29.62	47.00	0.64
Asta 2 - 3	3199.66	tr 100	59.45	27.49	28.54	28.37	28.73	0.006857	1.99	33.62	49.27	0.65
Asta 2 - 3	3199.66	tr 200	69.65	27.49	28.62	28.45	28.82	0.007038	2.12	37.31	51.27	0.67
Asta 2 - 3	3199.66	tr 500	83.29	27.49	28.71	28.55	28.94	0.007095	2.26	42.33	53.87	0.68
Asta 2 - 3	3100.73	tr 50	49.40	26.49	27.39	27.39	27.67	0.014134	2.53	22.06	39.85	0.92
Asta 2 - 3	3100.73	tr 100	59.45	26.49	27.47	27.47	27.78	0.013609	2.66	25.51	42.21	0.92
Asta 2 - 3	3100.73	tr 200	69.65	26.49	27.55	27.55	27.88	0.012962	2.76	29.07	44.52	0.91
Asta 2 - 3	3100.73	tr 500	83.29	26.49	27.64	27.64	28.01	0.012749	2.91	33.25	47.09	0.92
Asta 2 - 3	2992.008	tr 50	49.40	25.26	26.15	25.87	26.21	0.002644	1.25	47.34	82.88	0.44
Asta 2 - 3	2992.008	tr 100	59.45	25.26	26.20	25.93	26.28	0.002891	1.37	52.35	86.08	0.47
Asta 2 - 3	2992.008	tr 200	69.65	25.26	26.26	25.98	26.35	0.003098	1.48	57.21	89.09	0.49
Asta 2 - 3	2992.008	tr 500	83.29	25.26	26.33	26.05	26.43	0.003349	1.61	63.27	92.65	0.51
Asta 2 - 3	2900.397	tr 50	49.40	25.05	25.98		26.00	0.001722	1.02	75.39	181.70	0.34
Asta 2 - 3	2900.397	tr 100	59.45	25.05	26.04		26.07	0.001684	1.05	86.81	190.32	0.34
Asta 2 - 3	2900.397	tr 200	69.65	25.05	26.10		26.13	0.001595	1.07	99.13	199.21	0.33
Asta 2 - 3	2900.397	tr 500	83.29	25.05	26.18		26.21	0.001510	1.09	114.80	209.29	0.33
Asta 2 - 3	2799.861	tr 50	49.40	24.32	25.40	25.40	25.62	0.012044	2.24	26.85	65.56	0.81
Asta 2 - 3	2799.861	tr 100	59.45	24.32	25.48	25.48	25.70	0.010749	2.27	32.93	73.34	0.78
Asta 2 - 3	2799.861	tr 200	69.65	24.32	25.54	25.54	25.78	0.010984	2.39	37.04	76.28	0.80
Asta 2 - 3	2799.861	tr 500	83.29	24.32	25.61	25.61	25.86	0.011023	2.51	42.54	80.03	0.81
Asta 2 - 3	2698.53	tr 50	49.40	23.44	24.29	24.13	24.42	0.005789	1.67	33.62	59.23	0.62
Asta 2 - 3	2698.53	tr 100	59.45	23.44	24.38	24.19	24.51	0.005646	1.76	38.53	61.75	0.62
Asta 2 - 3	2698.53	tr 200	69.65	23.44	24.45	24.26	24.60	0.005525	1.85	43.32	64.18	0.62
Asta 2 - 3	2698.53	tr 500	83.29	23.44	24.55	24.33	24.71	0.005402	1.95	49.55	67.67	0.63
Asta 2 - 3	2599.269	tr 50	49.40	22.73	23.57		23.75	0.007789	1.98	27.57	50.64	0.75
Asta 2 - 3	2599.269	tr 100	59.45	22.73	23.64		23.85	0.007923	2.13	31.27	53.07	0.77
Asta 2 - 3	2599.269	tr 200	69.65	22.73	23.70	23.62	23.94	0.008052	2.26	34.82	55.29	0.78
Asta 2 - 3	2599.269	tr 500	83.29	22.73	23.78	23.71	24.05	0.008209	2.42	39.29	57.78	0.80
Asta 2 - 3	2537.407	tr 50	49.40	22.29	23.10	23.02	23.26	0.007849	1.83	29.79	65.06	0.74
Asta 2 - 3	2537.407	tr 100	59.45	22.29	23.16	23.09	23.34	0.008181	1.98	33.62	68.71	0.76
Asta 2 - 3	2537.407	tr 200	69.65	22.29	23.21	23.15	23.42	0.008519	2.12	37.23	71.85	0.79
Asta 2 - 3	2537.407	tr 500	83.29	22.29	23.27	23.23	23.51	0.008911	2.28	41.81	75.56	0.82
Asta 2 - 3	2498.135	tr 50	49.40	22.04	22.80		22.93	0.008659	1.71	33.59	81.27	0.69
Asta 2 - 3	2498.135	tr 100	59.45	22.04	22.86		23.01	0.008329	1.79	39.17	87.07	0.69
Asta 2 - 3	2498.135	tr 200	69.65	22.04	22.92		23.07	0.008081	1.87	44.63	92.39	0.69
Asta 2 - 3	2498.135	tr 500	83.29	22.04	23.00		23.16	0.007861	1.96	51.60	98.59	0.69

HEC-RAS Plan: Plan 02 (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 2 - 3	2417.199	tr 50	49.40	21.44	22.34		22.42	0.004492	1.51	41.77	80.61	0.52
Asta 2 - 3	2417.199	tr 100	59.45	21.44	22.41		22.50	0.004575	1.60	47.58	84.97	0.53
Asta 2 - 3	2417.199	tr 200	69.65	21.44	22.47		22.58	0.004593	1.68	53.40	89.11	0.54
Asta 2 - 3	2417.199	tr 500	83.29	21.44	22.56		22.67	0.004435	1.75	61.75	94.73	0.54
Asta 2 - 3	2281.544	tr 50	49.40	20.59	21.55	21.37	21.68	0.006722	1.60	32.36	55.86	0.61
Asta 2 - 3	2281.544	tr 100	59.45	20.59	21.65	21.44	21.78	0.006175	1.67	37.78	59.65	0.60
Asta 2 - 3	2281.544	tr 200	69.65	20.59	21.74	21.51	21.88	0.005704	1.73	43.34	63.29	0.59
Asta 2 - 3	2281.544	tr 500	83.29	20.59	21.83	21.59	21.99	0.005733	1.84	49.07	66.85	0.60
Asta 2 - 3	2195.509	tr 50	49.40	19.96	20.72	20.65	20.91	0.012058	1.99	25.82	48.77	0.81
Asta 2 - 3	2195.509	tr 100	59.45	19.96	20.76	20.72	21.00	0.013974	2.24	27.80	49.84	0.88
Asta 2 - 3	2195.509	tr 200	69.65	19.96	20.79	20.79	21.09	0.016025	2.48	29.53	50.77	0.95
Asta 2 - 3	2195.509	tr 500	83.29	19.96	20.87	20.87	21.21	0.015488	2.62	33.70	52.96	0.95
Asta 2 - 3	2072.552	tr 50	49.40	19.85	20.43		20.45	0.001552	0.67	84.18	189.39	0.29
Asta 2 - 3	2072.552	tr 100	59.45	19.85	20.48		20.50	0.001564	0.71	94.73	193.50	0.29
Asta 2 - 3	2072.552	tr 200	69.65	19.85	20.53		20.56	0.001599	0.76	104.32	197.16	0.30
Asta 2 - 3	2072.552	tr 500	83.29	19.85	20.59	20.25	20.62	0.001623	0.81	116.69	201.52	0.30
Asta 2 - 3	2002.034	tr 50	49.40	19.70	20.32		20.34	0.001546	0.66	83.72	184.80	0.28
Asta 2 - 3	2002.034	tr 100	59.45	19.70	20.37		20.39	0.001586	0.71	93.42	187.38	0.29
Asta 2 - 3	2002.034	tr 200	69.65	19.70	20.42		20.44	0.001659	0.77	101.91	189.69	0.30
Asta 2 - 3	2002.034	tr 500	83.29	19.70	20.48		20.50	0.001709	0.82	113.20	192.72	0.31
Asta 2 - 3	1966.495	tr 50	49.40	19.48	19.95	19.95	20.07	0.016535	1.77	34.86	138.61	0.88
Asta 2 - 3	1966.495	tr 100	59.45	19.48	19.98	19.98	20.12	0.016908	1.88	39.55	144.36	0.91
Asta 2 - 3	1966.495	tr 200	69.65	19.48	20.02	20.02	20.17	0.015754	1.93	45.48	151.08	0.89
Asta 2 - 3	1966.495	tr 500	83.29	19.48	20.06	20.06	20.22	0.015858	2.03	51.29	153.97	0.90
Asta 2 - 3	1932.486	tr 50	49.40	15.41	19.13	16.74	19.20	0.000717	1.18	41.86	12.50	0.21
Asta 2 - 3	1932.486	tr 100	59.45	15.41	19.22	16.91	19.32	0.000963	1.38	43.00	12.56	0.24
Asta 2 - 3	1932.486	tr 200	69.65	15.41	19.31	17.08	19.44	0.001231	1.58	44.11	12.62	0.27
Asta 2 - 3	1932.486	tr 500	83.29	15.41	19.42	17.29	19.59	0.001604	1.83	45.86	27.33	0.31
Asta 2 - 3	1896.104		Culvert									
Asta 2 - 3	1859.159	tr 50	49.40	14.41	19.15		19.18	0.000207	0.83	59.75	34.70	0.13
Asta 2 - 3	1859.159	tr 100	59.45	14.41	19.24		19.29	0.000277	0.97	63.35	41.39	0.15
Asta 2 - 3	1859.159	tr 200	69.65	14.41	19.33		19.39	0.000368	1.10	67.54	52.31	0.18
Asta 2 - 3	1859.159	tr 500	83.29	14.41	19.44		19.52	0.000467	1.27	74.49	73.40	0.20
Asta 2 - 3	1810.757	tr 50	49.40	18.19	18.87	18.87	19.10	0.013987	2.13	24.10	55.99	0.96
Asta 2 - 3	1810.757	tr 100	59.45	18.19	18.93	18.93	19.18	0.013390	2.25	27.66	58.34	0.96
Asta 2 - 3	1810.757	tr 200	69.65	18.19	18.99	18.99	19.26	0.012835	2.36	31.20	60.60	0.95
Asta 2 - 3	1810.757	tr 500	83.29	18.19	19.07	19.07	19.36	0.012226	2.48	35.81	63.41	0.95
Asta 2 - 3	1757.787	tr 50	49.40	17.04	17.90	17.95	18.23	0.019109	2.56	19.80	42.92	1.13
Asta 2 - 3	1757.787	tr 100	59.45	17.04	17.96	18.03	18.33	0.019014	2.74	22.45	45.67	1.15
Asta 2 - 3	1757.787	tr 200	69.65	17.04	18.01	18.11	18.43	0.018962	2.91	25.03	48.23	1.16
Asta 2 - 3	1757.787	tr 500	83.29	17.04	18.08	18.19	18.55	0.018834	3.11	28.43	51.40	1.18
Asta 2 - 3	1694.631	tr 50	49.40	15.49	16.24	16.38	16.74	0.028950	3.24	16.20	36.47	1.40
Asta 2 - 3	1694.631	tr 100	59.45	15.49	16.30	16.47	16.86	0.028317	3.44	18.55	38.68	1.41
Asta 2 - 3	1694.631	tr 200	69.65	15.49	16.36	16.55	16.98	0.027766	3.63	20.87	40.74	1.42
Asta 2 - 3	1694.631	tr 500	83.29	15.49	16.43	16.65	17.12	0.027239	3.84	23.86	43.25	1.43
Asta 2 - 3	1606.547	tr 50	50.32	15.00	15.92	15.72	16.04	0.004762	1.59	32.91	53.95	0.60
Asta 2 - 3	1606.547	tr 100	60.41	15.00	15.99	15.79	16.13	0.004967	1.72	36.72	56.21	0.62
Asta 2 - 3	1606.547	tr 200	70.64	15.00	16.05	15.85	16.22	0.005214	1.85	40.20	58.20	0.64
Asta 2 - 3	1606.547	tr 500	84.30	15.00	16.12	15.94	16.32	0.005560	2.02	44.43	60.53	0.67
Asta 2 - 3	1480.787	tr 50	50.32	14.30	15.16		15.31	0.007342	1.88	32.76	74.23	0.72
Asta 2 - 3	1480.787	tr 100	60.41	14.30	15.23		15.39	0.007265	1.98	37.76	79.16	0.72
Asta 2 - 3	1480.787	tr 200	70.64	14.30	15.29		15.46	0.007111	2.06	42.75	83.09	0.72
Asta 2 - 3	1480.787	tr 500	84.30	14.30	15.36		15.54	0.006849	2.14	49.13	86.07	0.72
Asta 2 - 3	1358.268	tr 50	50.32	13.53	14.51		14.62	0.004282	1.73	38.15	68.81	0.58
Asta 2 - 3	1358.268	tr 100	60.41	13.53	14.60		14.72	0.004134	1.80	44.35	73.77	0.58
Asta 2 - 3	1358.268	tr 200	70.64	13.53	14.68		14.80	0.004018	1.87	50.44	78.32	0.57
Asta 2 - 3	1358.268	tr 500	84.30	13.53	14.78		14.91	0.003882	1.95	58.39	83.90	0.57
Asta 2 - 3	1299.691	tr 50	50.32	13.09	14.07		14.27	0.008659	2.15	27.51	47.54	0.74
Asta 2 - 3	1299.691	tr 100	60.41	13.09	14.16		14.37	0.008452	2.26	31.75	50.89	0.74
Asta 2 - 3	1299.691	tr 200	70.64	13.09	14.24		14.47	0.008233	2.36	35.99	54.04	0.74
Asta 2 - 3	1299.691	tr 500	84.30	13.09	14.34		14.58	0.008023	2.47	41.43	57.82	0.74
Asta 2 - 3	1201.662	tr 50	50.32	12.42	13.53	13.30	13.65	0.004490	1.71	34.21	51.13	0.55
Asta 2 - 3	1201.662	tr 100	60.41	12.42	13.61	13.37	13.76	0.004567	1.83	38.79	53.75	0.57
Asta 2 - 3	1201.662	tr 200	70.64	12.42	13.69	13.45	13.85	0.004704	1.95	42.96	55.95	0.58
Asta 2 - 3	1201.662	tr 500	84.30	12.42	13.78	13.53	13.96	0.004822	2.08	48.37	58.57	0.60
Asta 2 - 3	1125.589	tr 50	50.32	11.96	12.86	12.86	13.13	0.010976	2.53	24.19	46.87	0.91

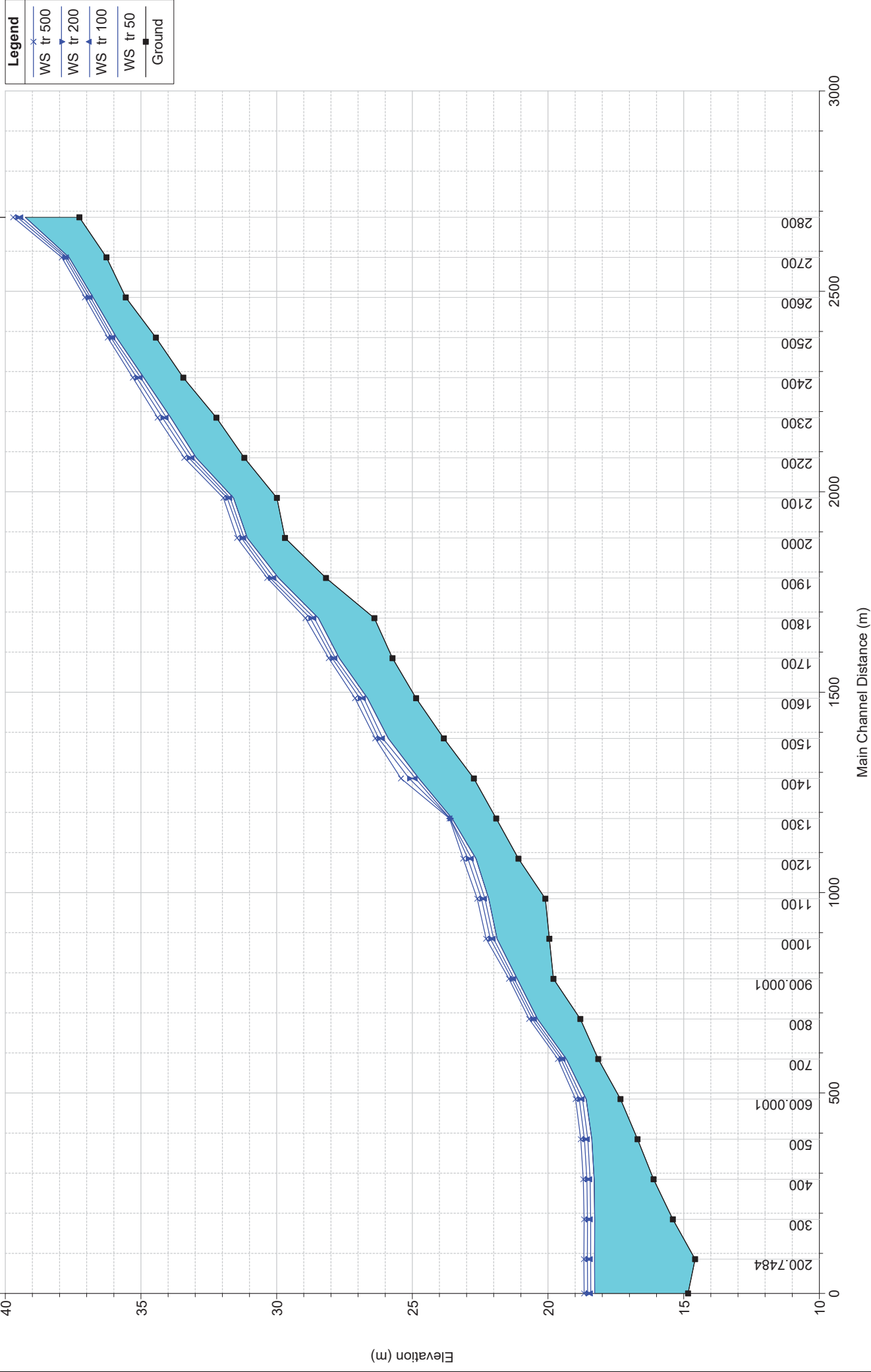
HEC-RAS Plan: Plan 02 (Continued)

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 2 - 3	1125.589	tr 100	60.41	11.96	12.94	12.94	13.23	0.010790	2.67	27.94	50.03	0.91
Asta 2 - 3	1125.589	tr 200	70.64	11.96	13.02	13.02	13.32	0.010347	2.76	31.92	53.16	0.90
Asta 2 - 3	1125.589	tr 500	84.30	11.96	13.10	13.10	13.43	0.010096	2.89	36.72	56.16	0.91
Asta 2 - 3	1002.289	tr 50	50.32	11.31	12.17	11.94	12.25	0.003402	1.36	45.69	87.51	0.48
Asta 2 - 3	1002.289	tr 100	60.41	11.31	12.23	12.00	12.31	0.003741	1.48	50.43	91.24	0.51
Asta 2 - 3	1002.289	tr 200	70.64	11.31	12.30	12.05	12.39	0.003617	1.54	57.16	95.66	0.51
Asta 2 - 3	1002.289	tr 500	84.30	11.31	12.44	12.12	12.52	0.002851	1.50	70.86	104.08	0.46
Asta 2 - 3	889.1185	tr 50	50.32	10.57	11.55		11.70	0.007072	1.83	30.88	55.34	0.66
Asta 2 - 3	889.1185	tr 100	60.41	10.57	11.75		11.87	0.004090	1.62	43.11	64.52	0.52
Asta 2 - 3	889.1185	tr 200	70.64	10.57	11.94		12.03	0.002756	1.49	55.99	72.94	0.44
Asta 2 - 3	889.1185	tr 500	84.30	10.57	12.20		12.27	0.001704	1.34	76.39	84.59	0.36
Asta 2 - 3	817.3105	tr 50	50.32	10.09	11.40		11.46	0.001620	1.27	50.84	62.83	0.36
Asta 2 - 3	817.3105	tr 100	60.41	10.09	11.67		11.72	0.001008	1.14	68.95	71.09	0.29
Asta 2 - 3	817.3105	tr 200	70.64	10.09	11.88		11.92	0.000787	1.09	84.44	77.08	0.26
Asta 2 - 3	817.3105	tr 500	84.30	10.09	12.16		12.19	0.000588	1.04	106.81	85.10	0.23
Asta 2 - 3	712.1385	tr 50	50.32	9.63	11.42		11.42	0.000078	0.35	179.91	147.01	0.08
Asta 2 - 3	712.1385	tr 100	60.41	9.63	11.68		11.69	0.000062	0.34	220.19	155.16	0.08
Asta 2 - 3	712.1385	tr 200	70.64	9.63	11.89		11.90	0.000057	0.35	253.30	162.83	0.07
Asta 2 - 3	712.1385	tr 500	84.30	9.63	12.17		12.17	0.000049	0.35	299.19	170.67	0.07
Asta 2 - 3	596.5081	tr 50	50.32	9.83	11.41		11.41	0.000066	0.27	194.28	157.51	0.07
Asta 2 - 3	596.5081	tr 100	60.41	9.83	11.68		11.68	0.000052	0.27	237.66	165.64	0.06
Asta 2 - 3	596.5081	tr 200	70.64	9.83	11.89		11.89	0.000047	0.27	272.78	171.08	0.06
Asta 2 - 3	596.5081	tr 500	84.30	9.83	12.16		12.17	0.000041	0.28	320.91	177.91	0.06
Asta 2 - 3	435.7049	tr 50	50.32	9.60	11.40		11.41	0.000027	0.21	288.88	238.40	0.05
Asta 2 - 3	435.7049	tr 100	60.41	9.60	11.67		11.68	0.000021	0.21	355.31	253.70	0.05
Asta 2 - 3	435.7049	tr 200	70.64	9.60	11.88		11.88	0.000019	0.21	409.62	266.46	0.05
Asta 2 - 3	435.7049	tr 500	84.30	9.60	12.16		12.16	0.000017	0.22	485.97	285.91	0.04
Asta 2 - 3	358.8138	tr 50	50.32	9.66	11.40		11.40	0.000028	0.21	301.03	274.65	0.05
Asta 2 - 3	358.8138	tr 100	60.41	9.66	11.67		11.67	0.000021	0.20	378.75	300.54	0.05
Asta 2 - 3	358.8138	tr 200	70.64	9.66	11.88		11.88	0.000019	0.20	443.70	320.35	0.04
Asta 2 - 3	358.8138	tr 500	84.30	9.66	12.16		12.16	0.000016	0.20	535.98	346.69	0.04
Asta 2 - 3	260.3578	tr 50	50.32	8.54	11.40		11.40	0.000007	0.15	493.78	333.90	0.03
Asta 2 - 3	260.3578	tr 100	60.41	8.54	11.67		11.67	0.000006	0.15	587.75	361.03	0.03
Asta 2 - 3	260.3578	tr 200	70.64	8.54	11.88		11.88	0.000006	0.15	665.50	382.02	0.03
Asta 2 - 3	260.3578	tr 500	84.30	8.54	12.16		12.16	0.000006	0.16	775.32	413.00	0.03

rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA

Riu Iscala Mala Asta 1-2

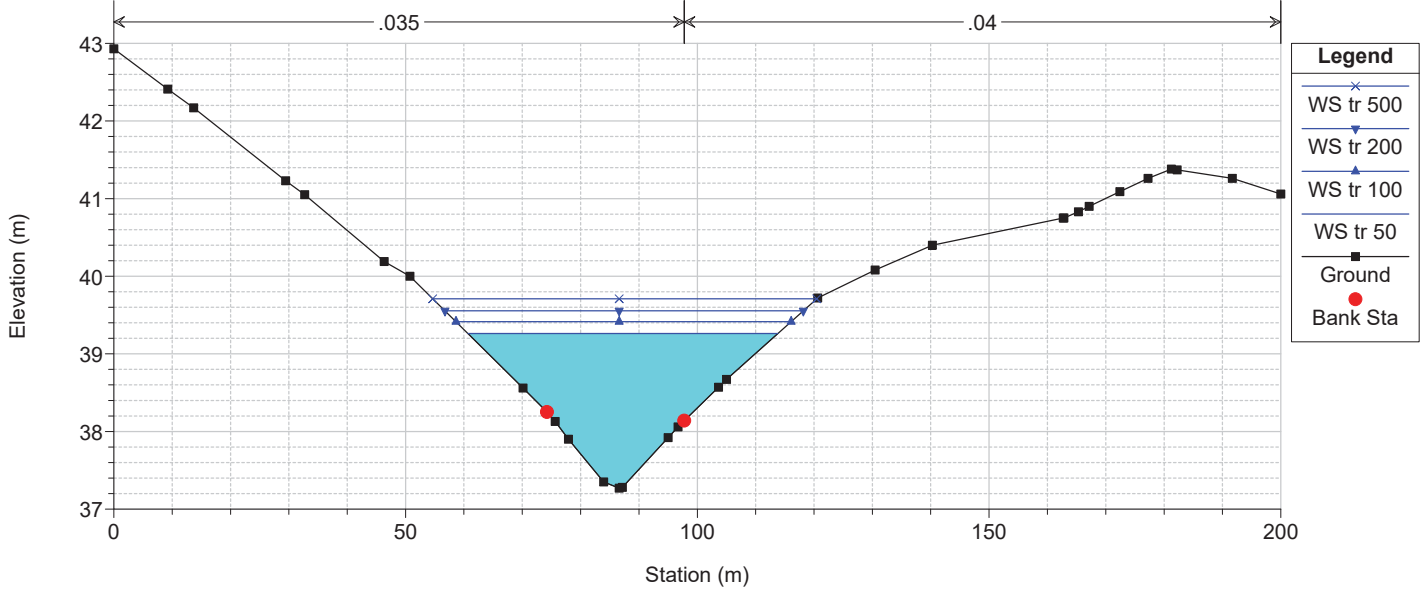


Legend	
WS tr 500	x
WS tr 200	▲
WS tr 100	▲
WS tr 50	▲
Ground	■

rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

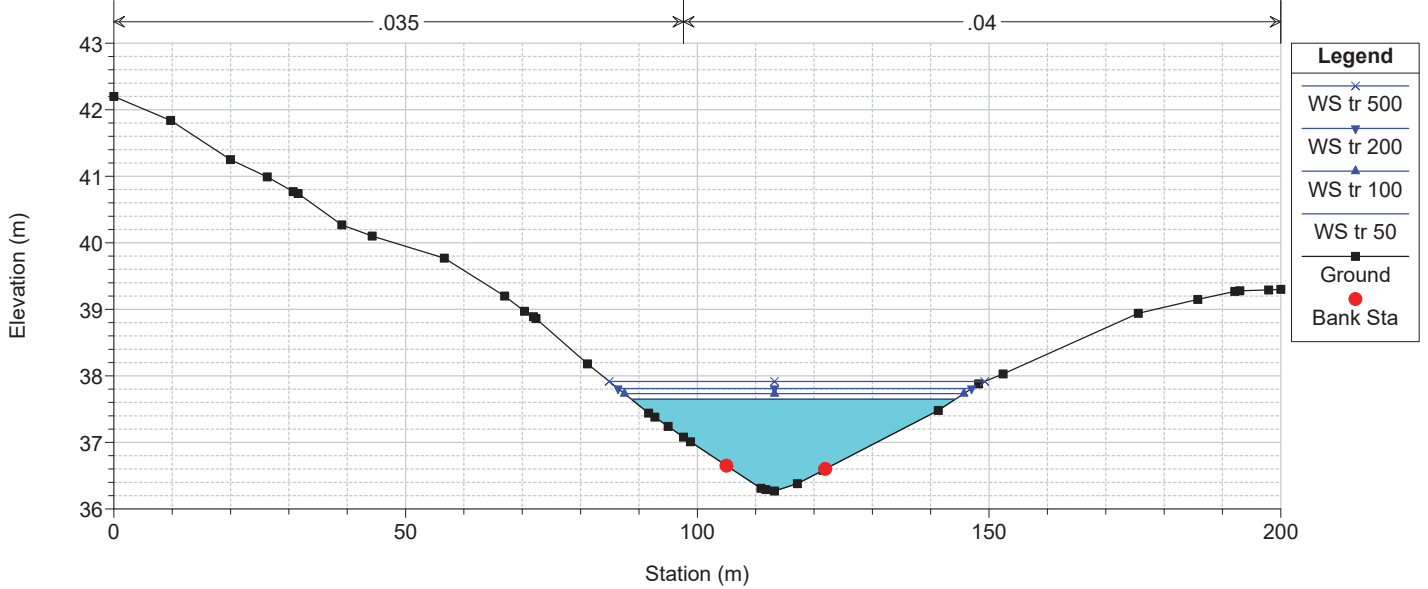
River = Riu Iscala Mala Reach = Asta 1-2 RS = 2800 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

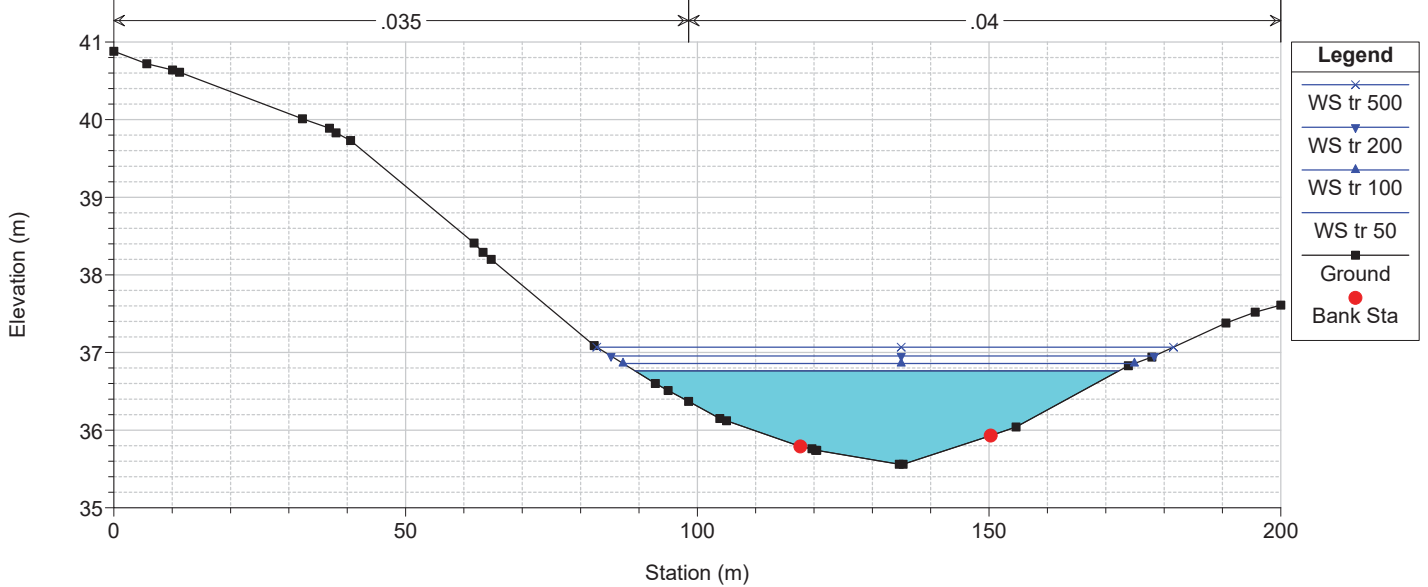
River = Riu Iscala Mala Reach = Asta 1-2 RS = 2700 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

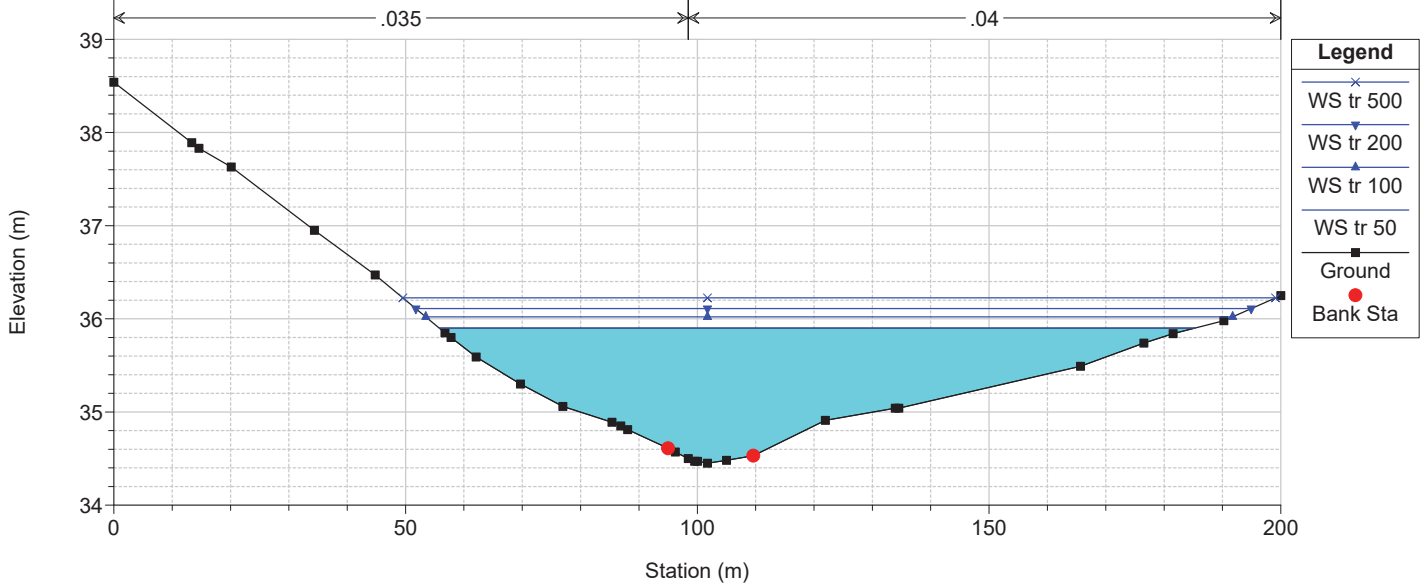
River = Riu Iscala Mala Reach = Asta 1-2 RS = 2600 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

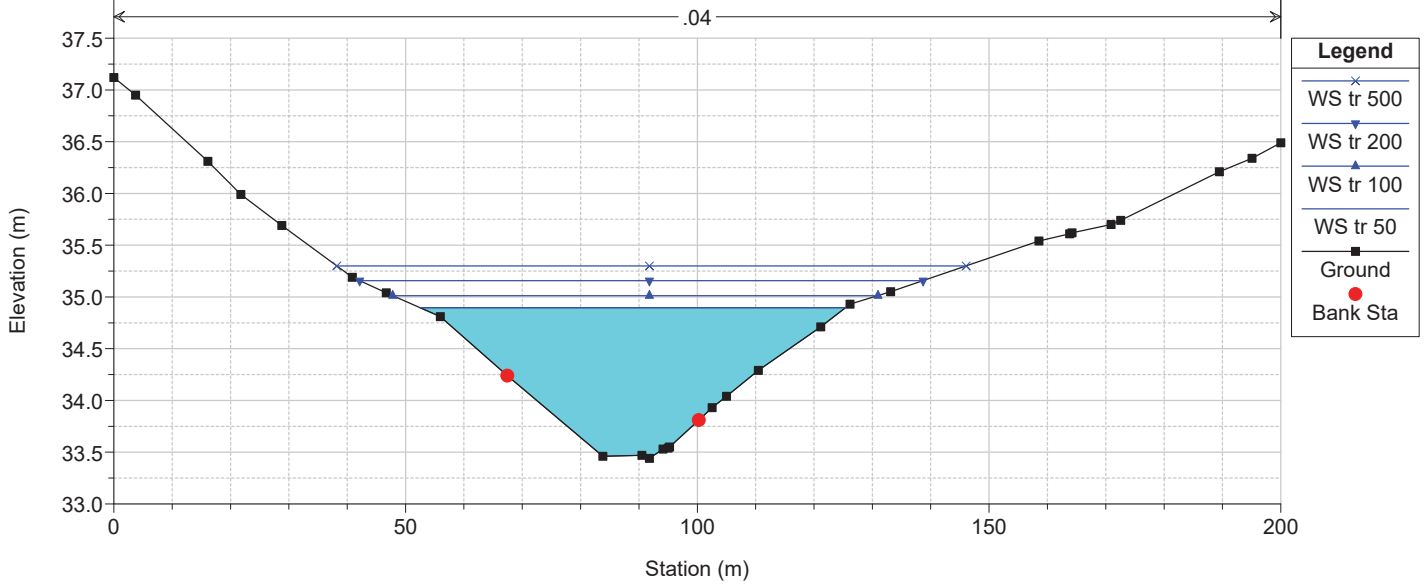
River = Riu Iscala Mala Reach = Asta 1-2 RS = 2500 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

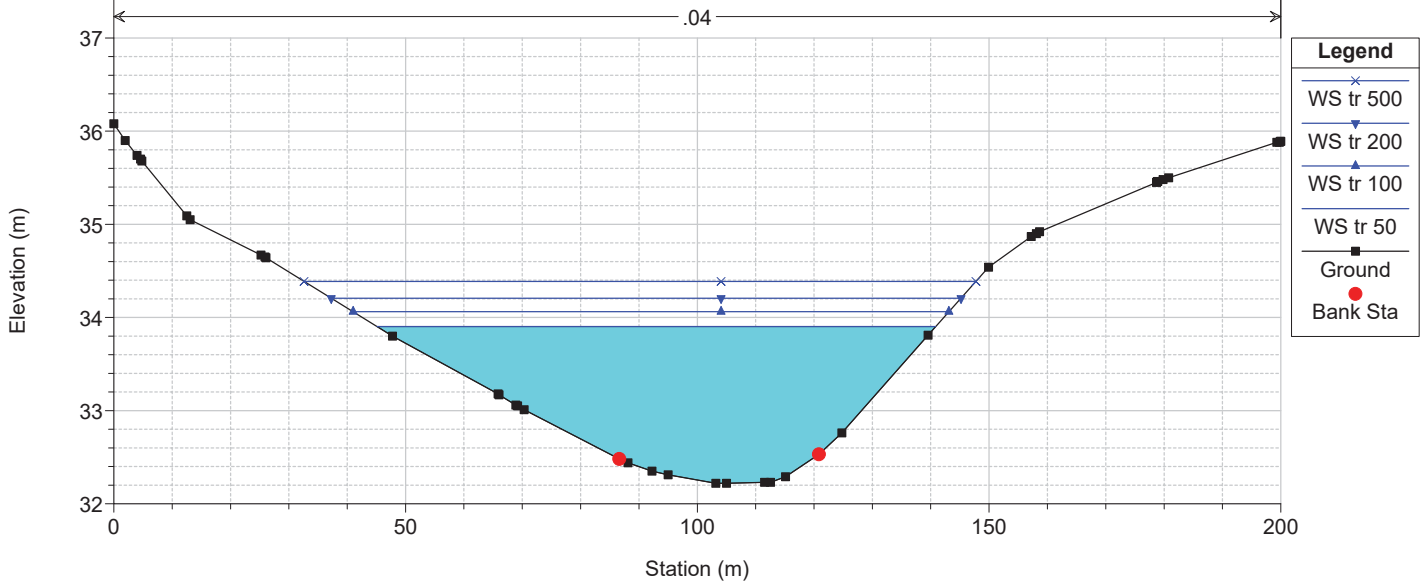
River = Riu Iscala Mala Reach = Asta 1-2 RS = 2400 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

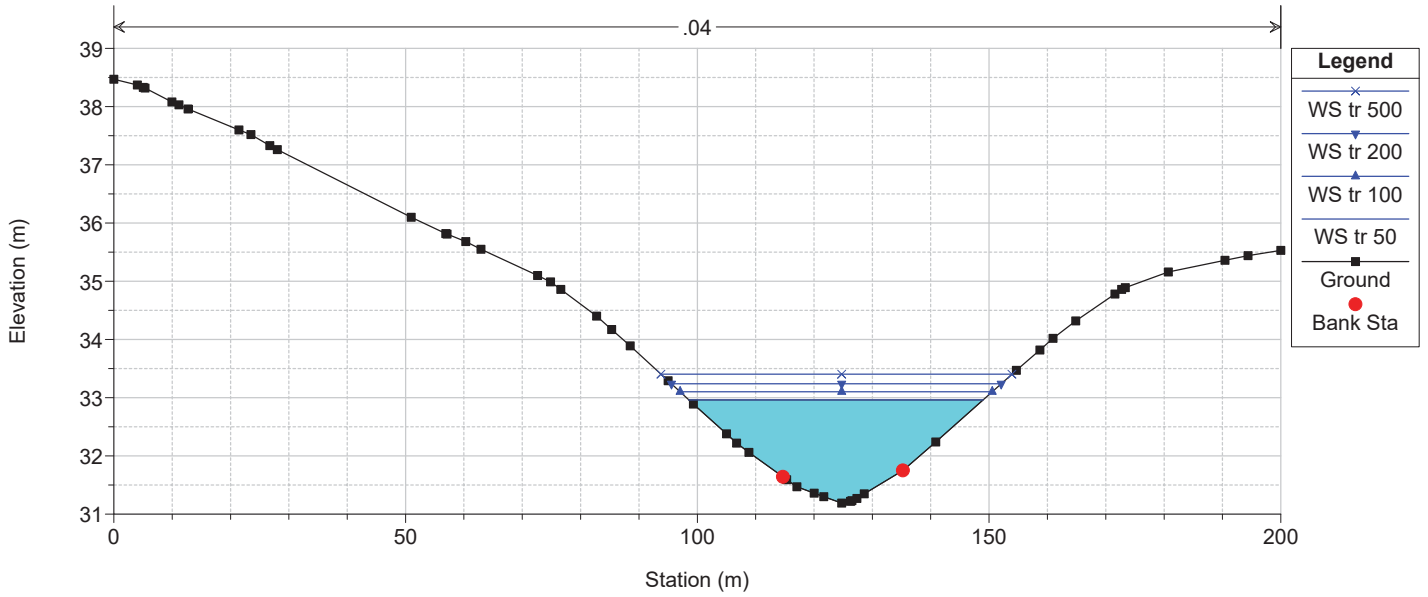
River = Riu Iscala Mala Reach = Asta 1-2 RS = 2300 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

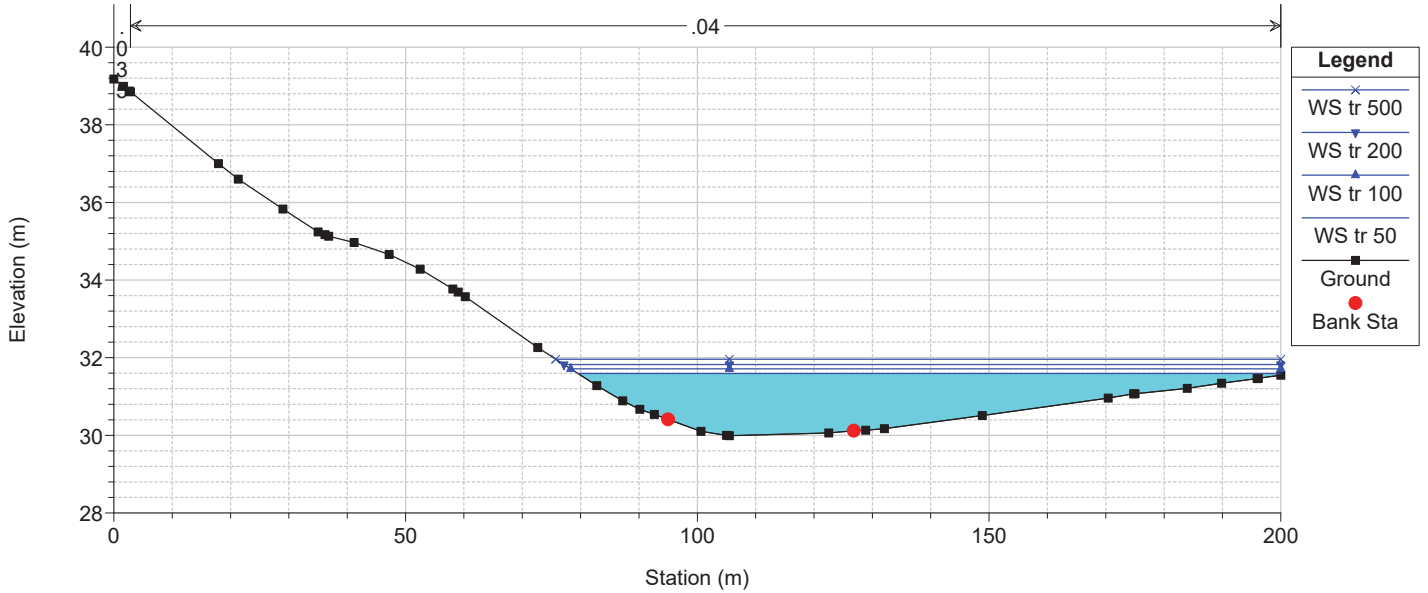
River = Riu Iscala Mala Reach = Asta 1-2 RS = 2200 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

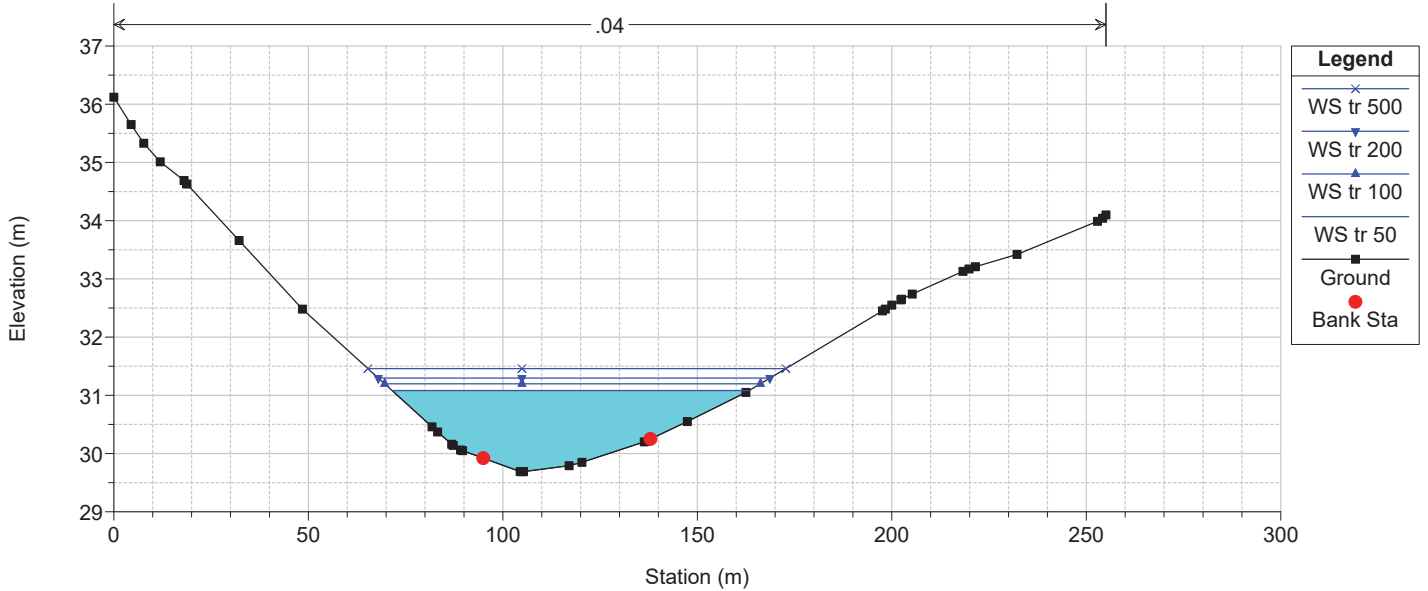
River = Riu Iscala Mala Reach = Asta 1-2 RS = 2100 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

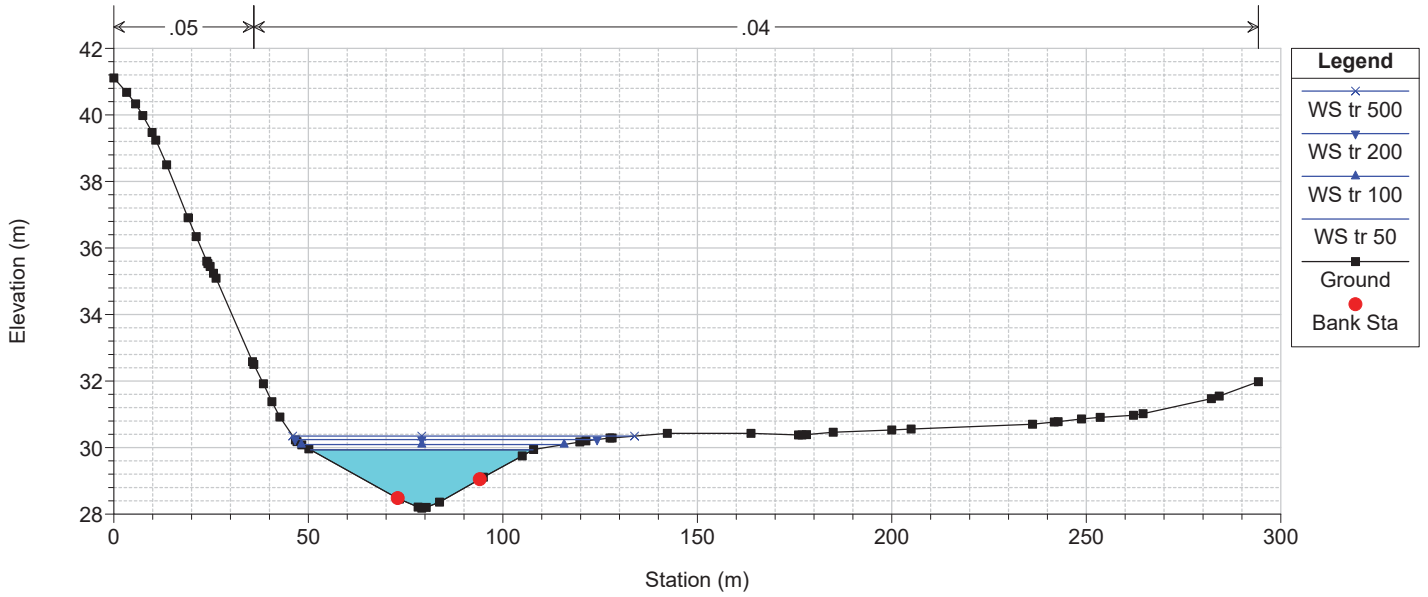
River = Riu Iscala Mala Reach = Asta 1-2 RS = 2000 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

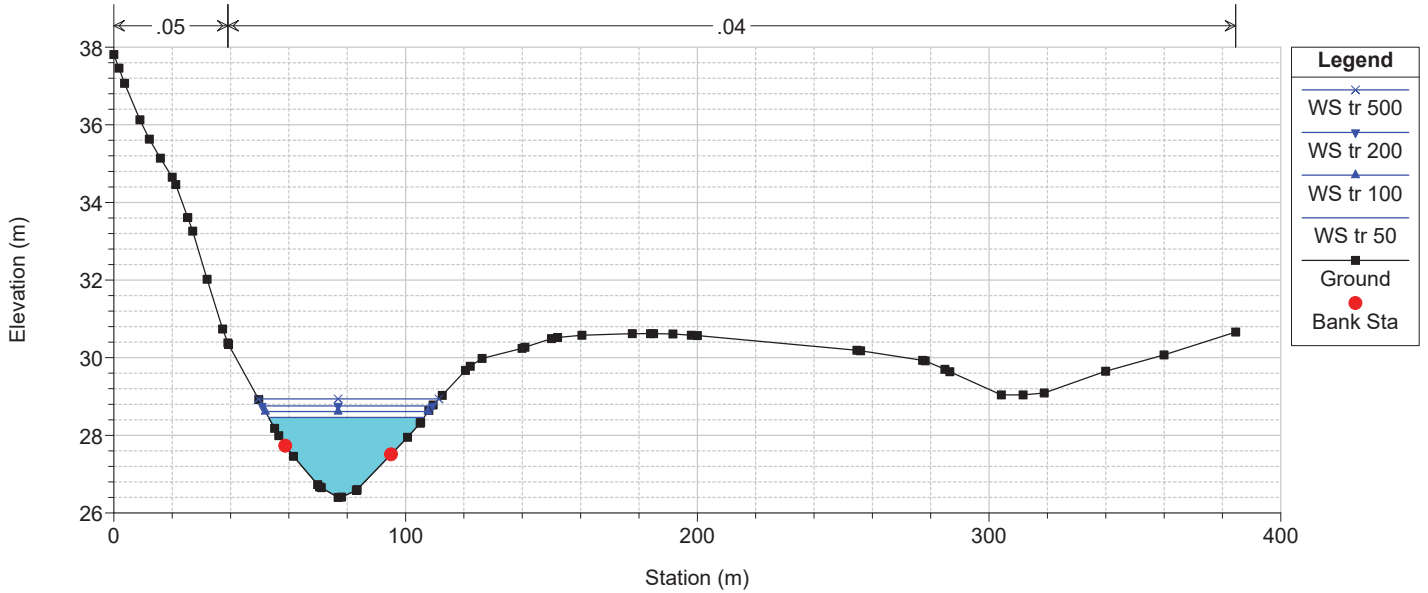
River = Riu Iscala Mala Reach = Asta 1-2 RS = 1900 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

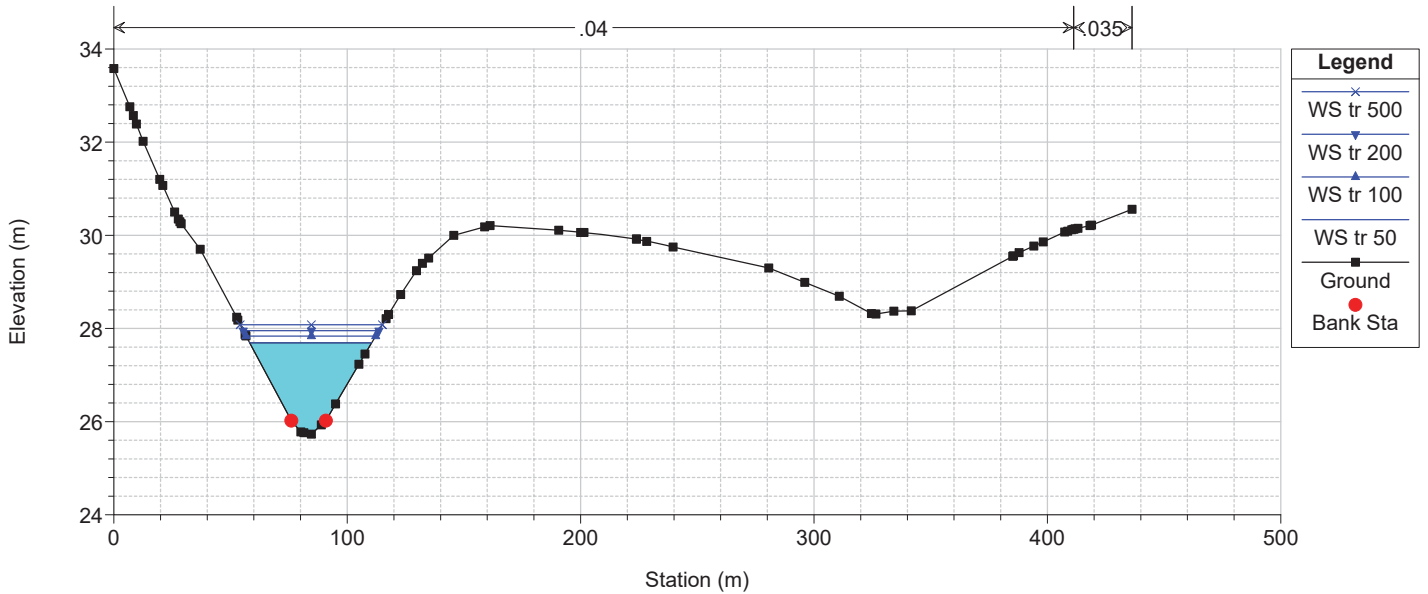
River = Riu Iscala Mala Reach = Asta 1-2 RS = 1800 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

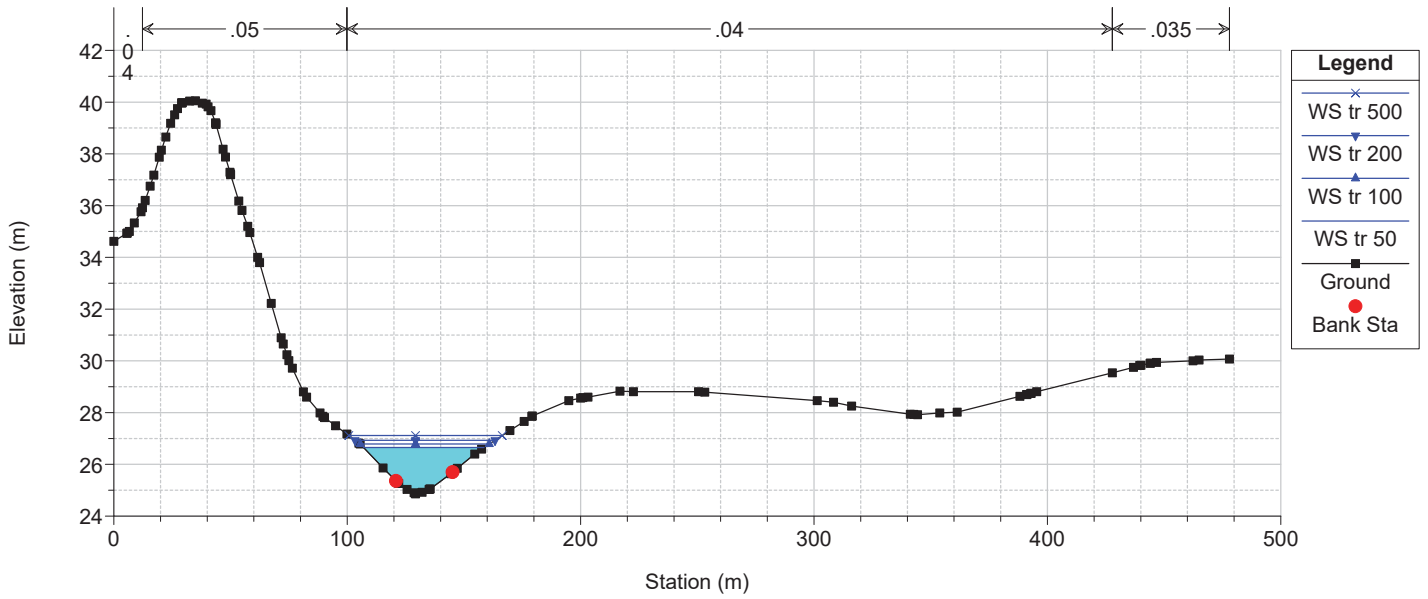
River = Riu Iscala Mala Reach = Asta 1-2 RS = 1700 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

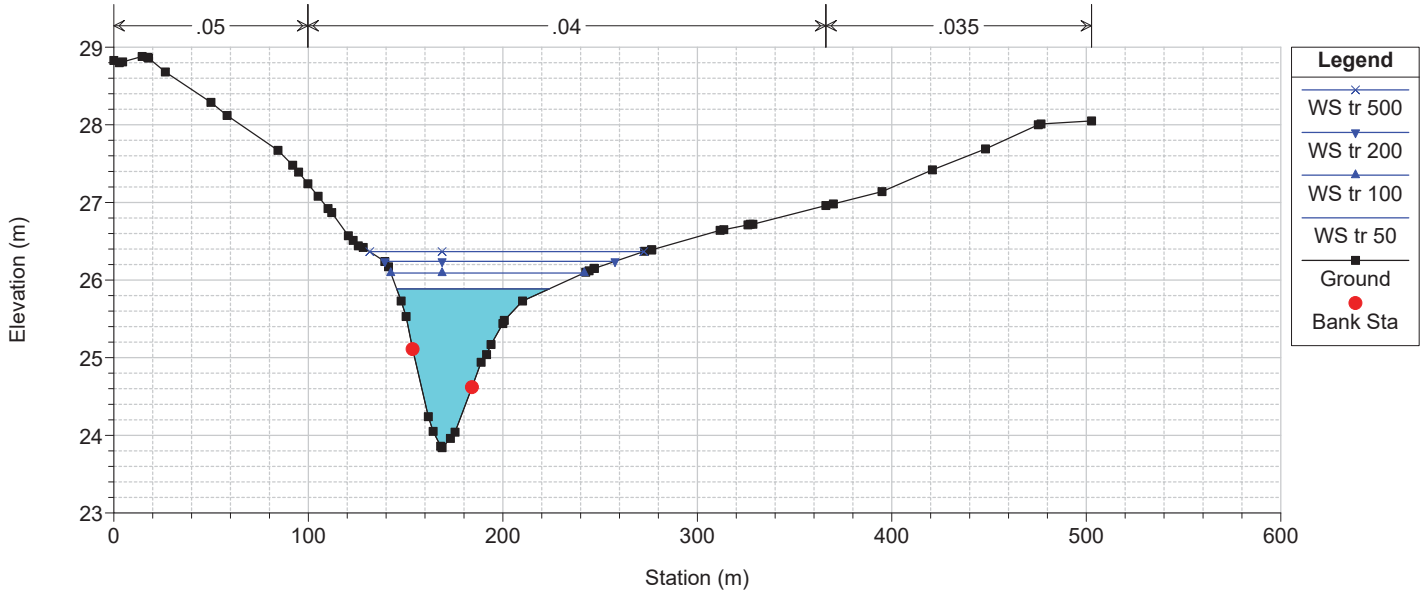
River = Riu Iscala Mala Reach = Asta 1-2 RS = 1600 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

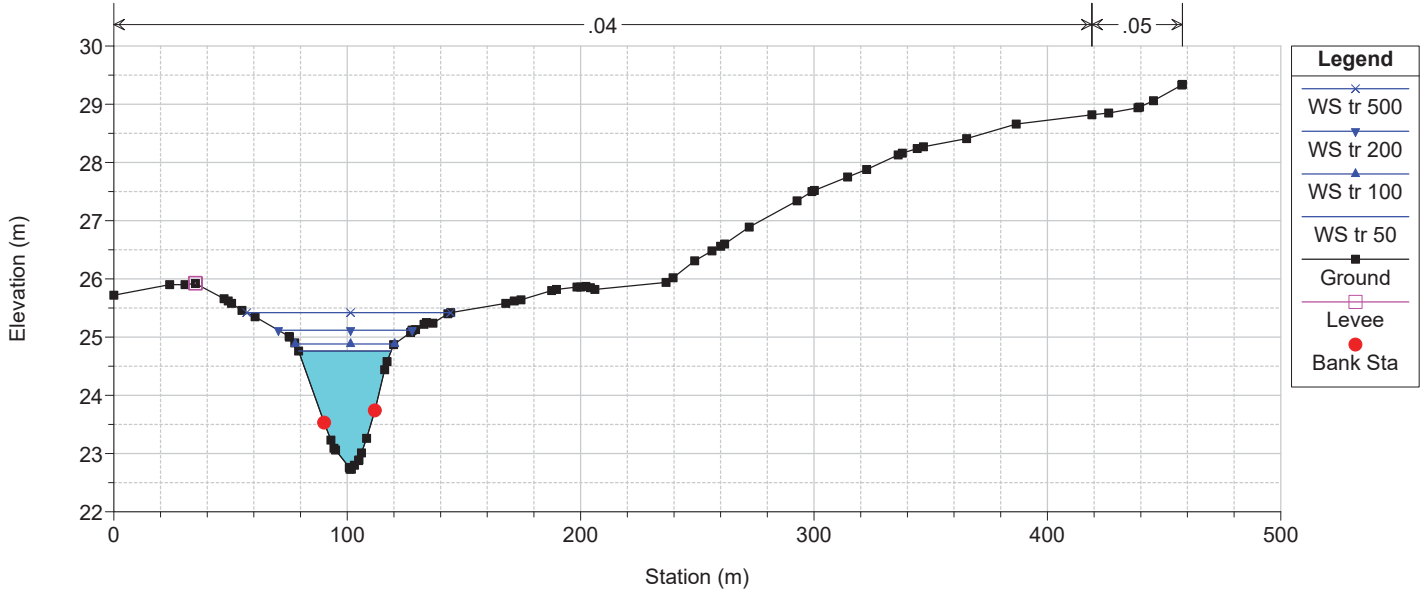
River = Riu Iscala Mala Reach = Asta 1-2 RS = 1500 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

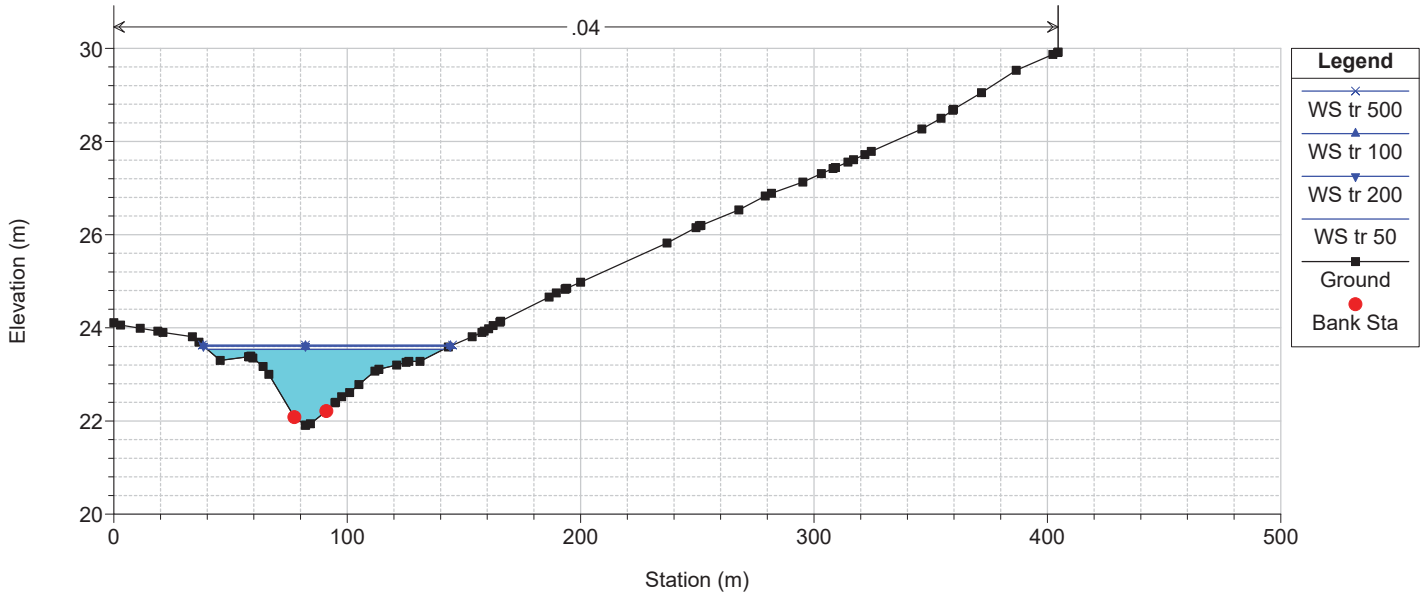
River = Riu Iscala Mala Reach = Asta 1-2 RS = 1400 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

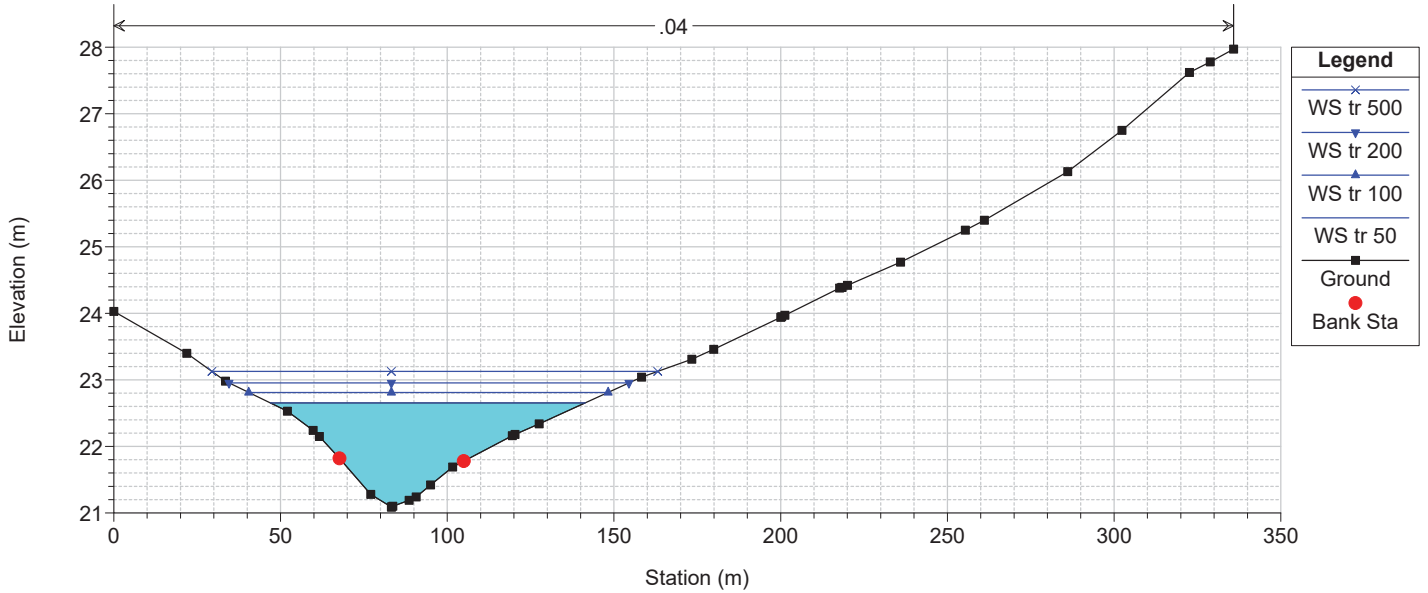
River = Riu Iscala Mala Reach = Asta 1-2 RS = 1300 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

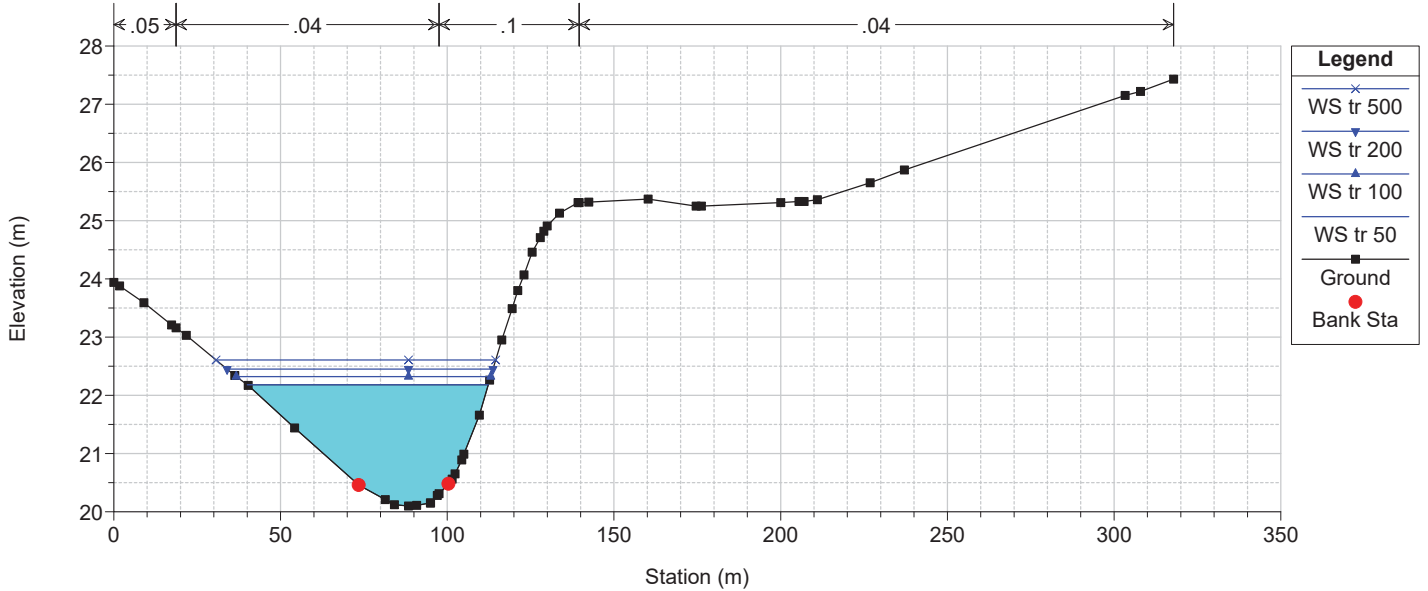
River = Riu Iscala Mala Reach = Asta 1-2 RS = 1200 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

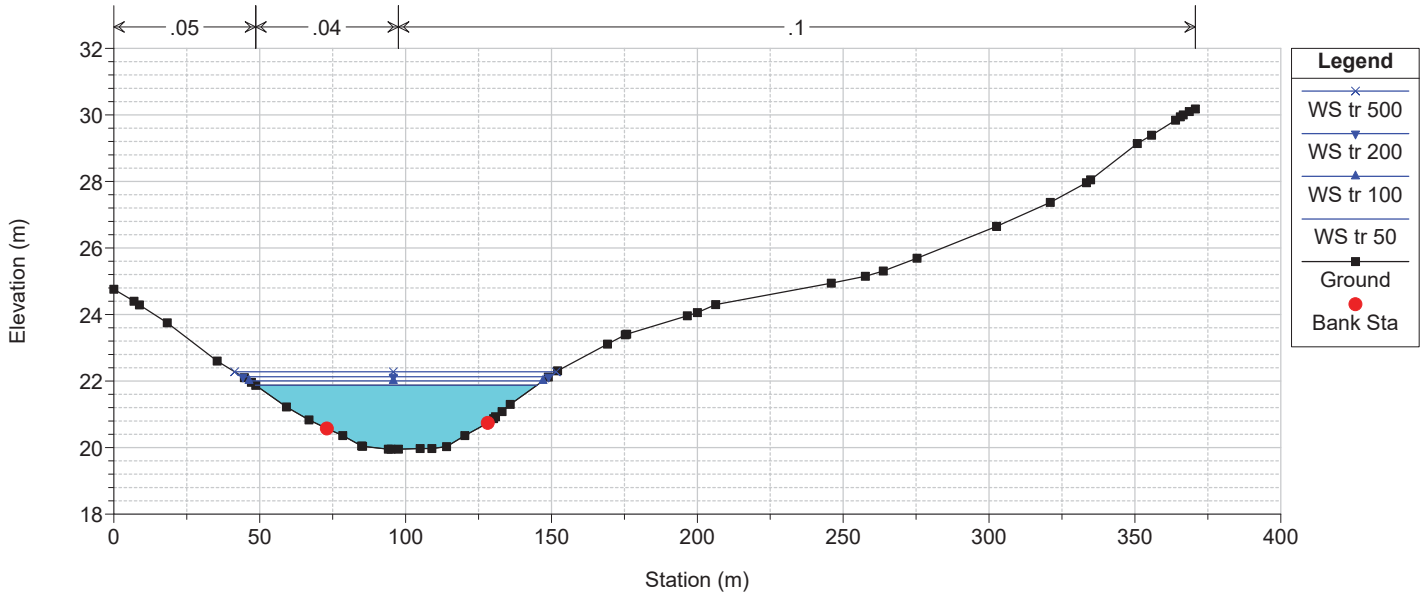
River = Riu Iscala Mala Reach = Asta 1-2 RS = 1100 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

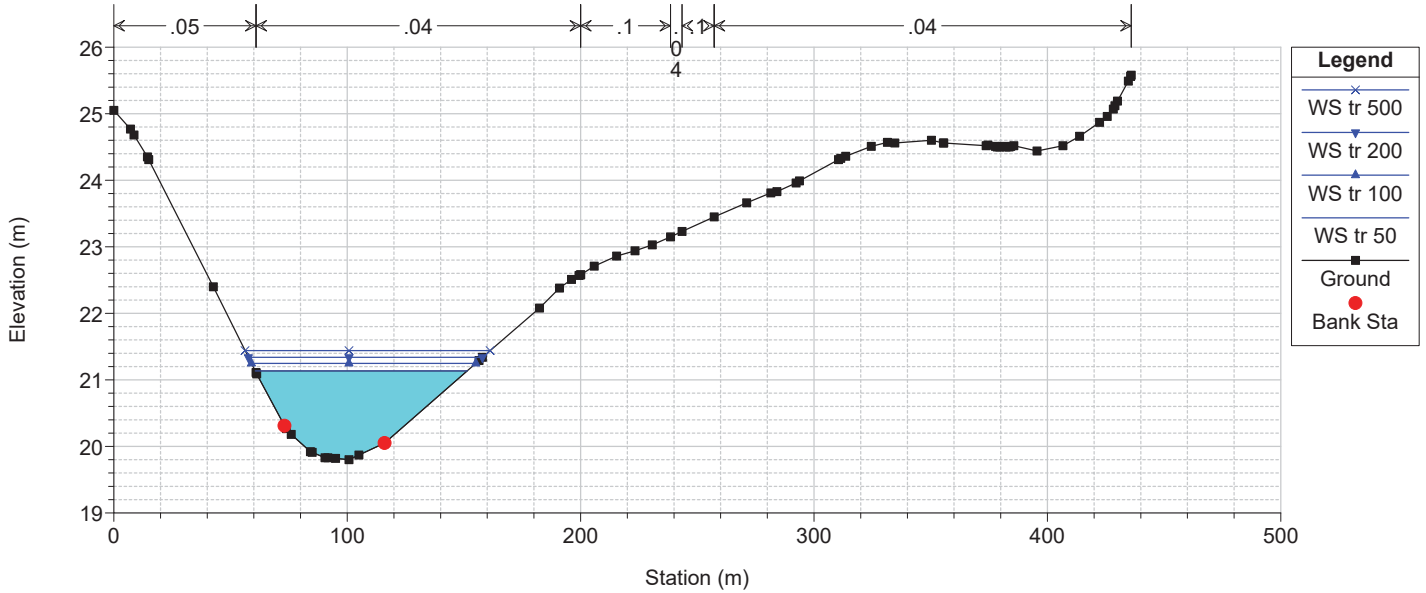
River = Riu Iscala Mala Reach = Asta 1-2 RS = 1000 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

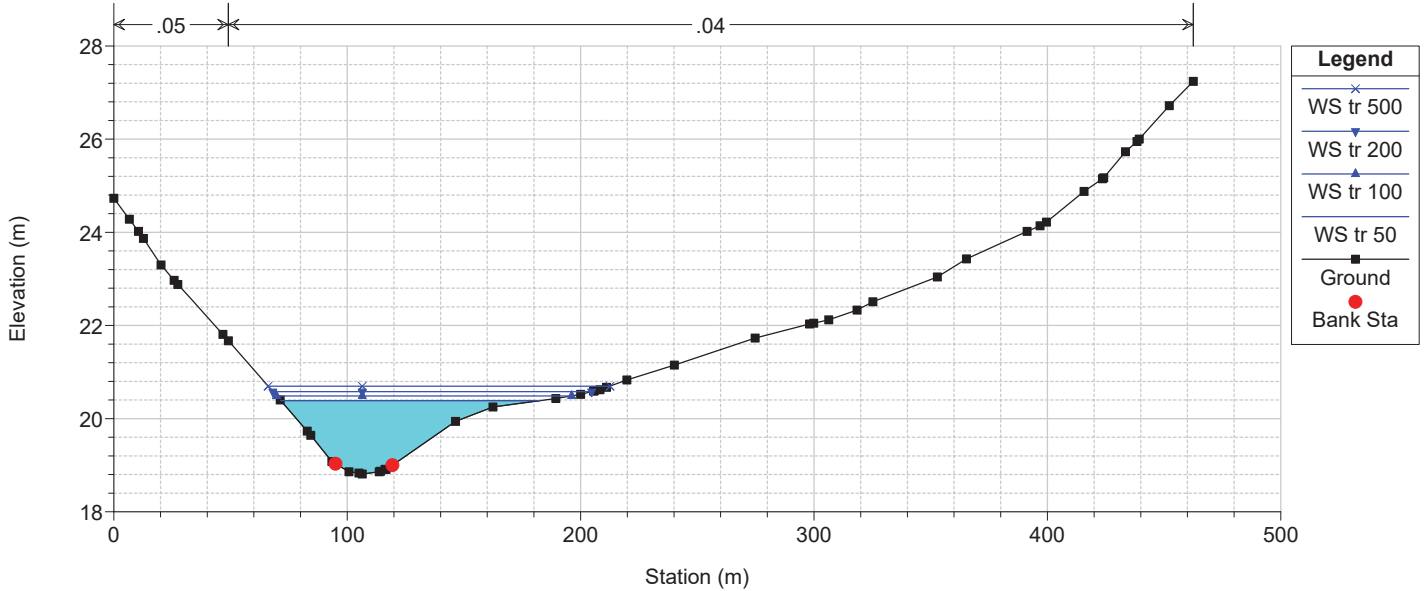
River = Riu Iscala Mala Reach = Asta 1-2 RS = 900.0001 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

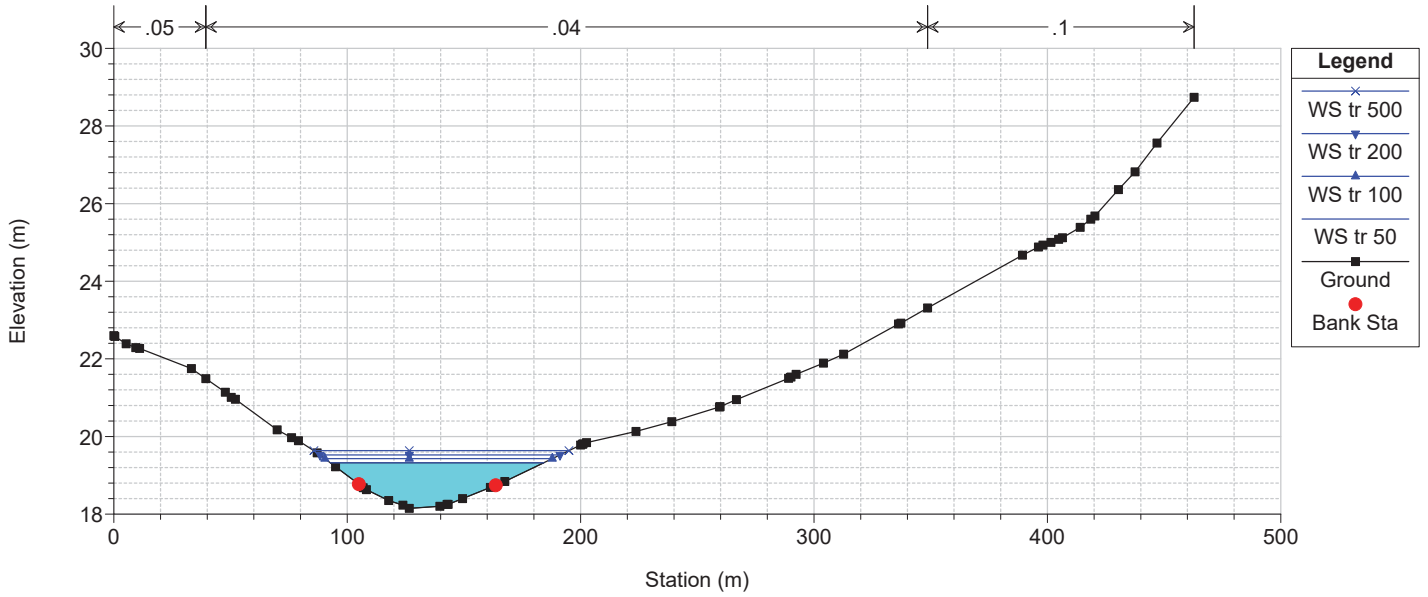
River = Riu Iscala Mala Reach = Asta 1-2 RS = 800 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

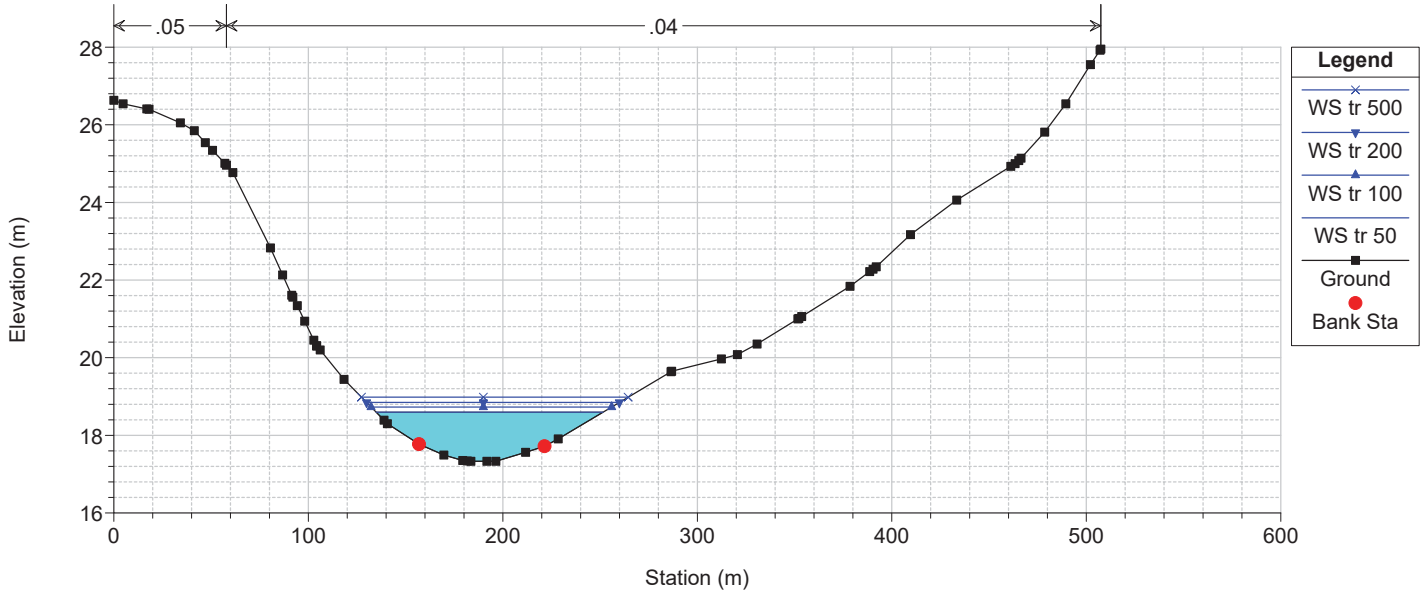
River = Riu Iscala Mala Reach = Asta 1-2 RS = 700 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

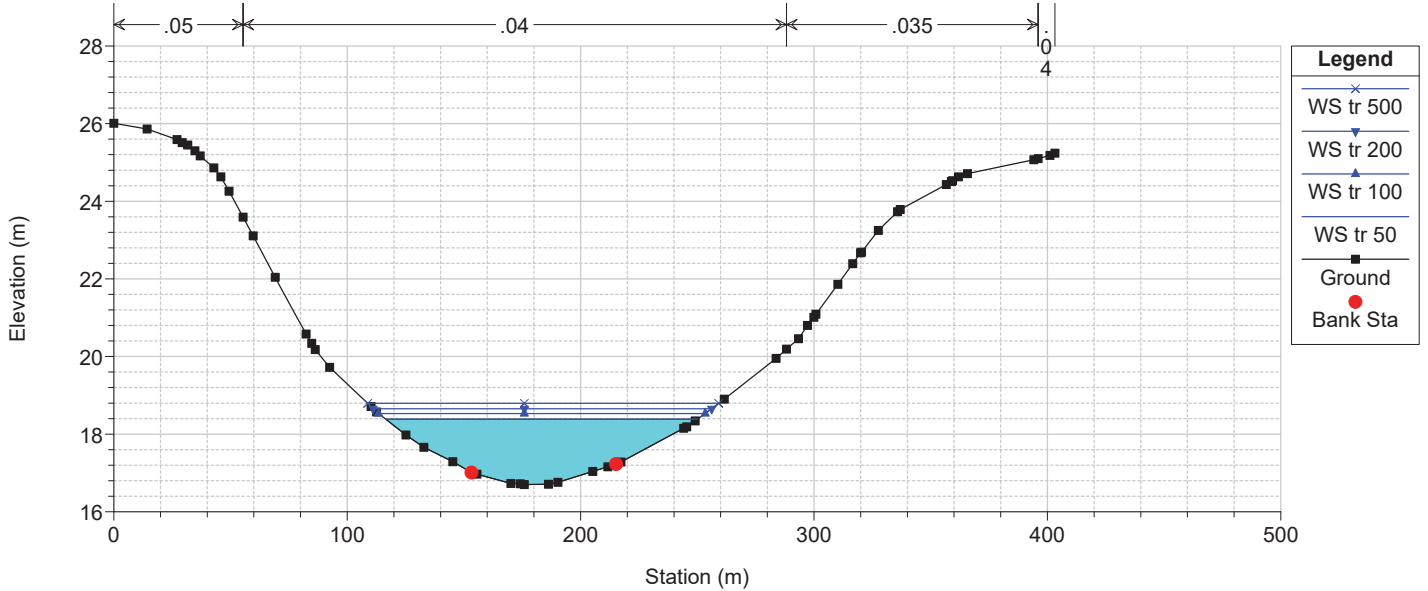
River = Riu Iscala Mala Reach = Asta 1-2 RS = 600.0001 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

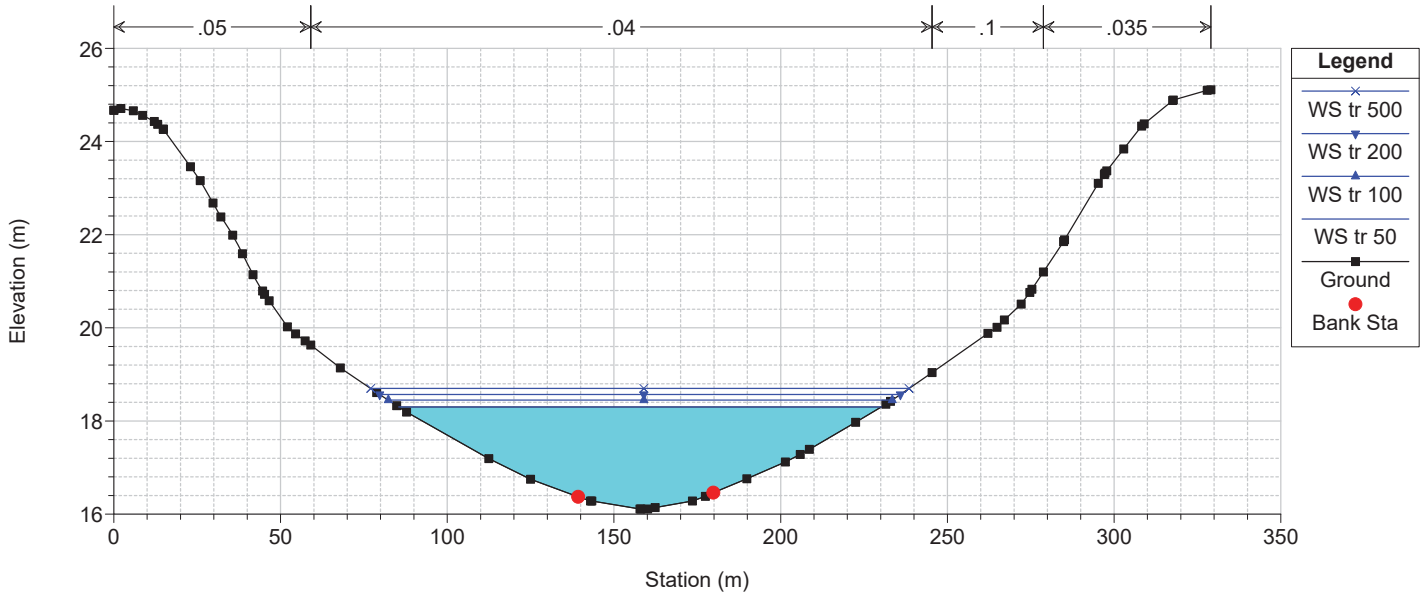
River = Riu Iscala Mala Reach = Asta 1-2 RS = 500 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

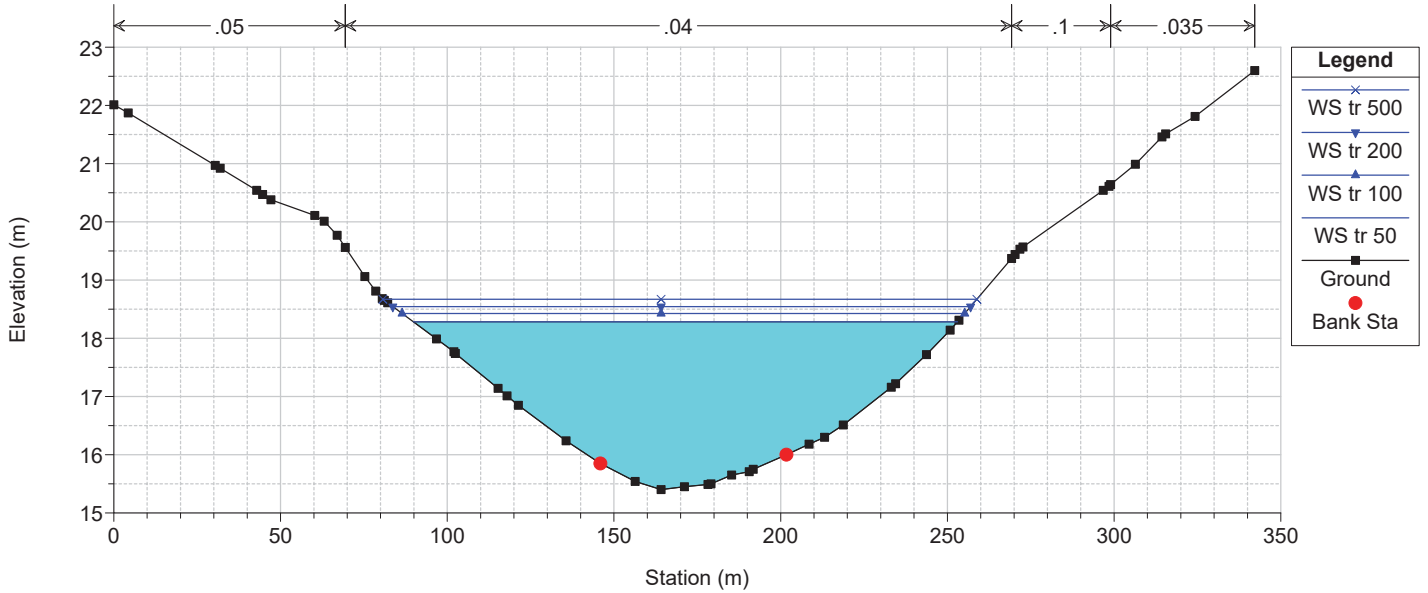
River = Riu Iscala Mala Reach = Asta 1-2 RS = 400 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

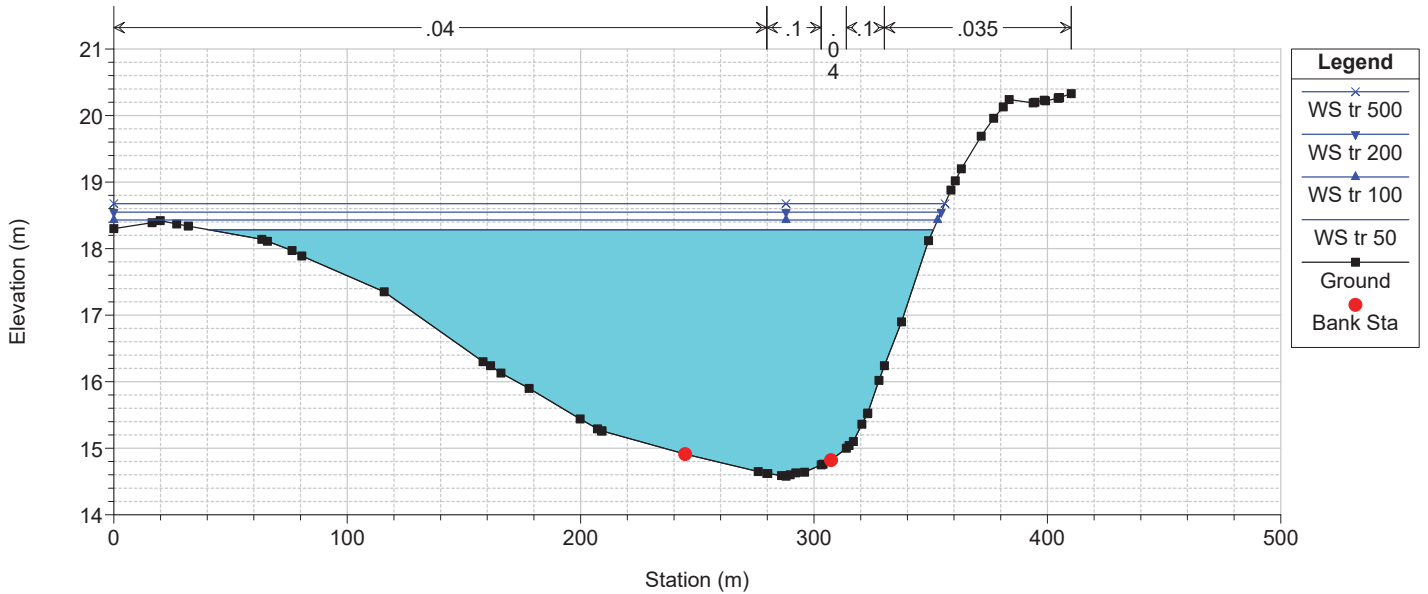
River = Riu Iscala Mala Reach = Asta 1-2 RS = 300 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

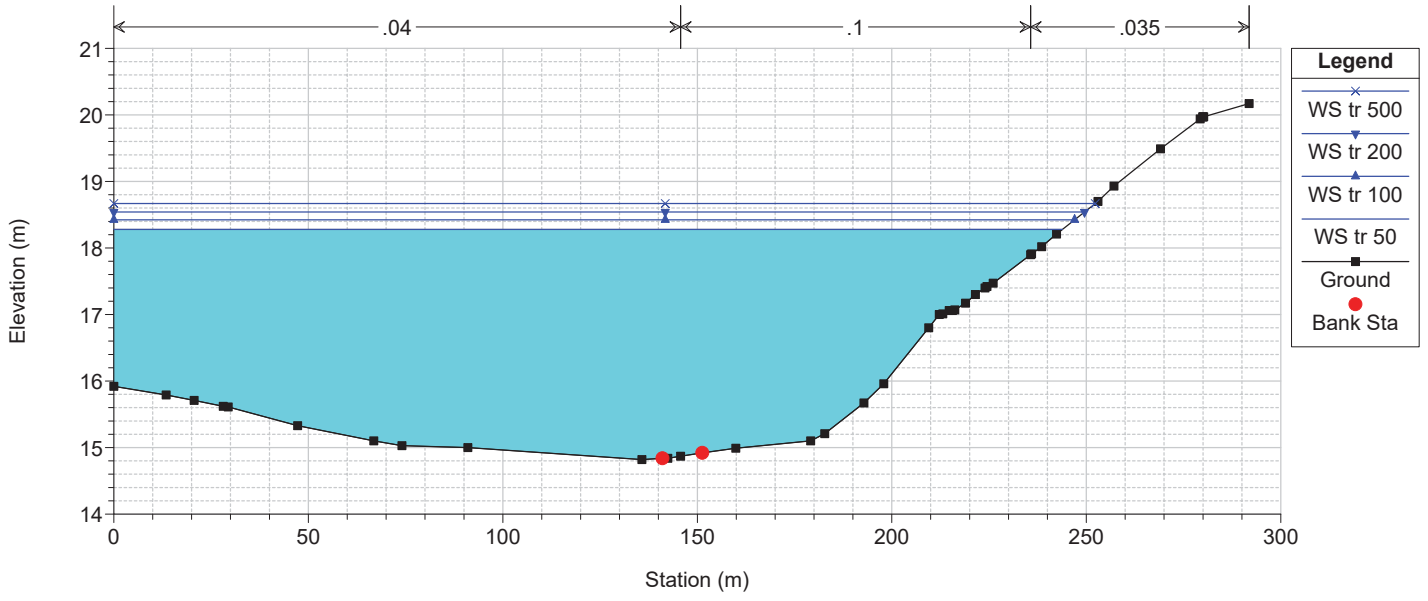
River = Riu Iscala Mala Reach = Asta 1-2 RS = 200.7484 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

River = Riu Iscala Mala Reach = Asta 1-2 RS = 115.1983 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA

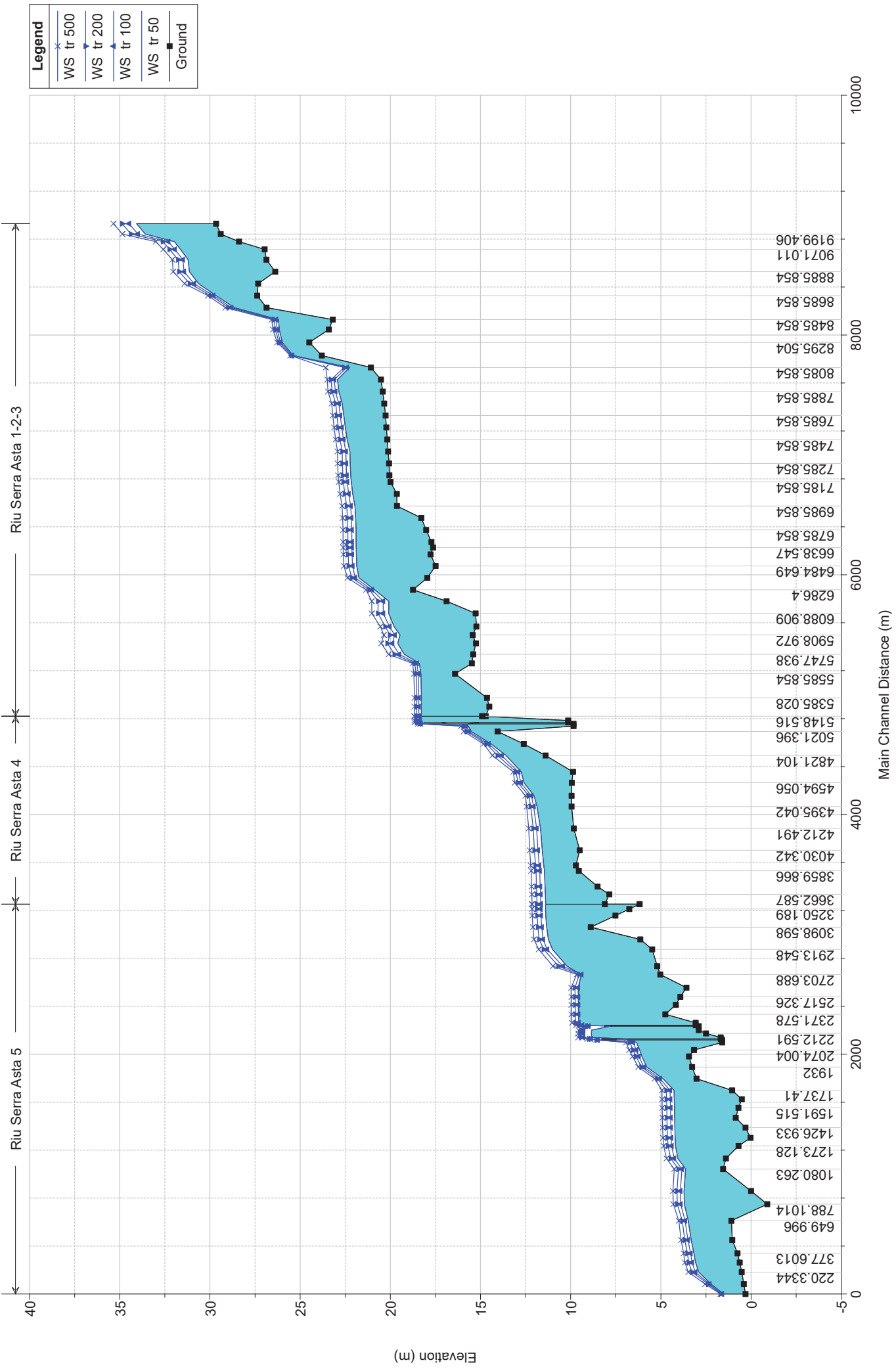


Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Asta 1-2	2800	tr 50	151.11	37.27	39.26	39.26	39.79	0.007966	3.44	52.57	53.12	0.88
Asta 1-2	2800	tr 100	179.32	37.27	39.41	39.41	39.97	0.007678	3.59	60.97	57.43	0.87
Asta 1-2	2800	tr 200	207.73	37.27	39.55	39.55	40.14	0.007431	3.72	69.31	61.40	0.87
Asta 1-2	2800	tr 500	245.48	37.27	39.71	39.71	40.34	0.007381	3.91	79.23	65.82	0.88
Asta 1-2	2700	tr 50	151.11	36.27	37.65	37.88	38.46	0.025092	4.54	41.32	55.56	1.31
Asta 1-2	2700	tr 100	179.32	36.27	37.73	38.02	38.64	0.026356	4.86	46.04	58.17	1.36
Asta 1-2	2700	tr 200	207.73	36.27	37.81	38.13	38.82	0.027356	5.15	50.62	60.60	1.39
Asta 1-2	2700	tr 500	245.48	36.27	37.92	38.27	39.02	0.027506	5.42	57.26	64.34	1.42
Asta 1-2	2600	tr 50	151.11	35.56	36.76	36.76	37.13	0.012860	2.95	59.88	82.92	0.91
Asta 1-2	2600	tr 100	179.32	35.56	36.86	36.86	37.26	0.012681	3.10	68.03	87.65	0.92
Asta 1-2	2600	tr 200	207.73	35.56	36.95	36.95	37.38	0.012242	3.21	76.72	93.11	0.92
Asta 1-2	2600	tr 500	245.48	35.56	37.07	37.07	37.52	0.011832	3.35	87.69	98.84	0.91
Asta 1-2	2500	tr 50	151.11	34.45	35.90	35.65	36.04	0.004476	2.16	98.69	129.49	0.58
Asta 1-2	2500	tr 100	179.32	34.45	36.02	35.73	36.16	0.004164	2.20	115.00	138.28	0.57
Asta 1-2	2500	tr 200	207.73	34.45	36.11	35.80	36.26	0.004194	2.29	127.37	143.17	0.58
Asta 1-2	2500	tr 500	245.48	34.45	36.22	35.89	36.39	0.004134	2.39	144.24	149.56	0.58
Asta 1-2	2400	tr 50	151.11	33.44	34.90	34.90	35.32	0.012032	3.10	57.04	72.89	0.90
Asta 1-2	2400	tr 100	179.32	33.44	35.01	35.01	35.47	0.011846	3.27	66.13	83.19	0.91
Asta 1-2	2400	tr 200	207.73	33.44	35.16	35.16	35.61	0.010386	3.28	79.17	96.58	0.87
Asta 1-2	2400	tr 500	245.48	33.44	35.30	35.30	35.76	0.009667	3.37	93.72	107.86	0.85
Asta 1-2	2300	tr 50	151.11	32.22	33.90	33.43	34.04	0.003026	1.88	98.74	95.71	0.47
Asta 1-2	2300	tr 100	179.32	32.22	34.06	33.54	34.21	0.002850	1.94	114.53	102.11	0.47
Asta 1-2	2300	tr 200	207.73	32.22	34.21	33.65	34.36	0.002725	2.00	129.83	107.94	0.46
Asta 1-2	2300	tr 500	245.48	32.22	34.39	33.77	34.55	0.002582	2.07	149.92	115.15	0.46
Asta 1-2	2200	tr 50	151.11	31.19	32.96	32.96	33.48	0.011053	3.52	51.50	50.42	0.90
Asta 1-2	2200	tr 100	179.32	31.19	33.10	33.10	33.67	0.010915	3.70	58.73	53.49	0.91
Asta 1-2	2200	tr 200	207.73	31.19	33.24	33.24	33.84	0.010585	3.84	66.26	56.51	0.91
Asta 1-2	2200	tr 500	245.48	31.19	33.40	33.40	34.04	0.010257	4.01	75.93	60.16	0.91
Asta 1-2	2100	tr 50	151.11	29.99	31.59	31.09	31.69	0.002548	1.66	115.57	120.45	0.43
Asta 1-2	2100	tr 100	179.32	29.99	31.71	31.20	31.82	0.002501	1.73	130.13	121.70	0.43
Asta 1-2	2100	tr 200	207.73	29.99	31.82	31.29	31.94	0.002469	1.80	143.82	122.85	0.44
Asta 1-2	2100	tr 500	245.48	29.99	31.96	31.39	32.09	0.002439	1.88	160.91	124.28	0.44
Asta 1-2	2000	tr 50	151.11	29.69	31.08		31.30	0.006316	2.24	77.86	91.75	0.65
Asta 1-2	2000	tr 100	179.32	29.69	31.20		31.44	0.006163	2.35	88.85	96.60	0.66
Asta 1-2	2000	tr 200	207.73	29.69	31.30		31.56	0.006212	2.48	98.52	100.67	0.67
Asta 1-2	2000	tr 500	245.48	29.69	31.46		31.73	0.005600	2.53	115.44	107.43	0.64
Asta 1-2	1900	tr 50	151.11	28.18	29.93	29.93	30.43	0.011970	3.48	52.69	57.21	0.93
Asta 1-2	1900	tr 100	179.32	28.18	30.09	30.09	30.61	0.010969	3.57	62.77	67.59	0.90
Asta 1-2	1900	tr 200	207.73	28.18	30.24	30.24	30.76	0.009994	3.62	73.61	77.66	0.87
Asta 1-2	1900	tr 500	245.48	28.18	30.35	30.35	30.94	0.010780	3.91	82.24	87.86	0.92
Asta 1-2	1800	tr 50	151.11	26.40	28.46	28.13	28.77	0.005658	2.52	64.27	53.33	0.65
Asta 1-2	1800	tr 100	179.32	26.40	28.61	28.29	28.96	0.005655	2.68	72.52	55.81	0.66
Asta 1-2	1800	tr 200	207.73	26.40	28.76	28.42	29.14	0.005593	2.82	80.82	58.35	0.66
Asta 1-2	1800	tr 500	245.48	26.40	28.94	28.58	29.35	0.005502	2.97	91.72	61.91	0.67
Asta 1-2	1700	tr 50	151.11	25.73	27.69	27.55	28.10	0.007762	3.31	58.50	52.25	0.78
Asta 1-2	1700	tr 100	179.32	25.73	27.84	27.70	28.29	0.007813	3.50	66.42	55.57	0.79
Asta 1-2	1700	tr 200	207.73	25.73	27.95	27.84	28.45	0.008166	3.71	73.00	58.14	0.82
Asta 1-2	1700	tr 500	245.48	25.73	28.08	28.01	28.65	0.008749	4.00	80.67	60.97	0.85
Asta 1-2	1600	tr 50	151.11	24.86	26.65	26.65	27.17	0.011086	3.43	51.28	51.57	0.90
Asta 1-2	1600	tr 100	179.32	24.86	26.79	26.79	27.36	0.010985	3.62	58.55	55.30	0.91
Asta 1-2	1600	tr 200	207.73	24.86	26.93	26.93	27.53	0.010390	3.73	67.07	60.02	0.89
Asta 1-2	1600	tr 500	245.48	24.86	27.11	27.11	27.73	0.009705	3.84	78.44	65.72	0.88
Asta 1-2	1500	tr 50	151.11	23.84	25.89	25.62	26.20	0.005773	2.62	69.46	78.55	0.66
Asta 1-2	1500	tr 100	179.32	23.84	26.09	25.72	26.39	0.004904	2.62	87.66	99.49	0.62
Asta 1-2	1500	tr 200	207.73	23.84	26.24	25.94	26.54	0.004633	2.68	103.72	118.34	0.61
Asta 1-2	1500	tr 500	245.48	23.84	26.37	26.13	26.69	0.004855	2.86	120.03	140.88	0.63
Asta 1-2	1400	tr 50	151.11	22.73	24.76	24.76	25.39	0.010994	3.68	46.22	39.65	0.91
Asta 1-2	1400	tr 100	179.32	22.73	24.88	24.88	25.62	0.011832	4.00	51.23	42.62	0.95
Asta 1-2	1400	tr 200	207.73	22.73	25.12	25.12	25.84	0.010088	4.01	62.87	57.33	0.90
Asta 1-2	1400	tr 500	245.48	22.73	25.42	25.42	26.05	0.007843	3.88	84.75	87.34	0.81
Asta 1-2	1300	tr 50	166.77	21.91	23.54	23.68	24.06	0.015302	4.07	63.50	101.16	1.06
Asta 1-2	1300	tr 100	197.61	21.91	23.61	23.76	24.18	0.016204	4.32	71.06	105.88	1.10
Asta 1-2	1300	tr 200	228.65	21.91	23.61	23.80	24.38	0.021774	5.01	70.95	105.81	1.27
Asta 1-2	1300	tr 500	269.87	21.91	23.63	23.95	24.63	0.028176	5.75	73.08	107.20	1.45
Asta 1-2	1200	tr 50	166.77	21.09	22.65	22.63	23.03	0.010151	2.92	69.17	94.35	0.83
Asta 1-2	1200	tr 100	197.61	21.09	22.81	22.75	23.16	0.008549	2.90	85.13	107.80	0.78
Asta 1-2	1200	tr 200	228.65	21.09	22.95	22.86	23.29	0.007454	2.89	101.38	119.95	0.74

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 1-2	1200	tr 500	269.87	21.09	23.13	22.98	23.45	0.006405	2.87	123.26	133.68	0.70
Asta 1-2	1100	tr 50	166.77	20.10	22.18		22.40	0.003773	2.27	93.12	72.29	0.52
Asta 1-2	1100	tr 100	197.61	20.10	22.32		22.57	0.004017	2.45	103.50	76.32	0.54
Asta 1-2	1100	tr 200	228.65	20.10	22.45		22.72	0.004212	2.61	113.52	79.76	0.56
Asta 1-2	1100	tr 500	269.87	20.10	22.61		22.92	0.004423	2.80	126.34	83.90	0.58
Asta 1-2	1000	tr 50	166.77	19.95	21.88		21.98	0.003874	1.49	121.36	96.56	0.36
Asta 1-2	1000	tr 100	197.61	19.95	22.01		22.13	0.004057	1.60	134.09	100.76	0.38
Asta 1-2	1000	tr 200	228.65	19.95	22.13		22.27	0.004195	1.70	146.58	104.81	0.39
Asta 1-2	1000	tr 500	269.87	19.95	22.28		22.44	0.004321	1.81	162.91	110.21	0.40
Asta 1-2	900.0001	tr 50	166.77	19.80	21.13		21.42	0.008228	2.56	75.71	90.84	0.75
Asta 1-2	900.0001	tr 100	197.61	19.80	21.25		21.56	0.008037	2.68	86.24	96.11	0.75
Asta 1-2	900.0001	tr 200	228.65	19.80	21.34		21.68	0.008149	2.83	95.32	100.26	0.76
Asta 1-2	900.0001	tr 500	269.87	19.80	21.44	21.33	21.83	0.008554	3.03	105.66	105.00	0.79
Asta 1-2	800	tr 50	166.77	18.81	20.39	20.19	20.66	0.007008	2.75	83.56	111.15	0.72
Asta 1-2	800	tr 100	197.61	18.81	20.49	20.25	20.79	0.007289	2.93	95.72	126.39	0.74
Asta 1-2	800	tr 200	228.65	18.81	20.58	20.50	20.90	0.007365	3.05	107.85	136.61	0.75
Asta 1-2	800	tr 500	269.87	18.81	20.70	20.63	21.03	0.007184	3.15	124.58	146.52	0.75
Asta 1-2	700	tr 50	166.77	18.15	19.32	19.32	19.70	0.013605	2.80	64.73	91.51	0.92
Asta 1-2	700	tr 100	197.61	18.15	19.43	19.43	19.83	0.012852	2.92	74.64	97.43	0.91
Asta 1-2	700	tr 200	228.65	18.15	19.52	19.52	19.95	0.012318	3.03	84.25	102.85	0.91
Asta 1-2	700	tr 500	269.87	18.15	19.63	19.63	20.10	0.012049	3.19	95.88	109.26	0.91
Asta 1-2	600.0001	tr 50	166.77	17.33	18.60	18.34	18.77	0.005315	1.96	95.58	116.63	0.59
Asta 1-2	600.0001	tr 100	197.61	17.33	18.73	18.44	18.91	0.004840	2.02	111.48	123.66	0.58
Asta 1-2	600.0001	tr 200	228.65	17.33	18.85	18.52	19.04	0.004563	2.08	126.38	129.90	0.57
Asta 1-2	600.0001	tr 500	269.87	17.33	18.98	18.62	19.19	0.004369	2.17	144.60	137.15	0.56
Asta 1-2	500	tr 50	166.77	16.70	18.38		18.46	0.001713	1.36	142.18	133.55	0.35
Asta 1-2	500	tr 100	197.61	16.70	18.53		18.62	0.001655	1.43	162.42	139.99	0.35
Asta 1-2	500	tr 200	228.65	16.70	18.66		18.75	0.001658	1.50	180.03	144.98	0.36
Asta 1-2	500	tr 500	269.87	16.70	18.79		18.90	0.001711	1.60	200.21	150.38	0.37
Asta 1-2	400	tr 50	166.77	16.11	18.30		18.35	0.000740	1.10	190.91	144.73	0.25
Asta 1-2	400	tr 100	197.61	16.11	18.45		18.50	0.000772	1.18	212.66	151.17	0.25
Asta 1-2	400	tr 200	228.65	16.11	18.57		18.63	0.000821	1.26	231.13	156.16	0.26
Asta 1-2	400	tr 500	269.87	16.11	18.70		18.77	0.000903	1.37	251.78	161.49	0.28
Asta 1-2	300	tr 50	166.77	15.40	18.28		18.30	0.000222	0.72	285.86	163.15	0.14
Asta 1-2	300	tr 100	197.61	15.40	18.43		18.45	0.000250	0.79	309.88	168.74	0.15
Asta 1-2	300	tr 200	228.65	15.40	18.54		18.57	0.000282	0.86	330.00	173.27	0.16
Asta 1-2	300	tr 500	269.87	15.40	18.67		18.71	0.000329	0.95	352.16	178.11	0.17
Asta 1-2	200.7484	tr 50	166.77	14.58	18.28		18.29	0.000047	0.31	645.15	310.54	0.05
Asta 1-2	200.7484	tr 100	197.61	14.58	18.43		18.43	0.000059	0.35	693.43	353.00	0.06
Asta 1-2	200.7484	tr 200	228.65	14.58	18.55		18.55	0.000066	0.38	735.48	354.50	0.06
Asta 1-2	200.7484	tr 500	269.87	14.58	18.68		18.68	0.000076	0.42	780.92	356.11	0.07
Asta 1-2	115.1983	tr 50	166.77	14.84	18.28		18.28	0.000038	0.24	657.66	243.85	0.04
Asta 1-2	115.1983	tr 100	197.61	14.84	18.42		18.43	0.000045	0.27	692.97	246.99	0.04
Asta 1-2	115.1983	tr 200	228.65	14.84	18.54		18.55	0.000054	0.29	722.16	249.55	0.05
Asta 1-2	115.1983	tr 500	269.87	14.84	18.67		18.68	0.000066	0.33	753.78	252.29	0.05

rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



Riu Serra Asta 1-2-3

Riu Serra Asta 4

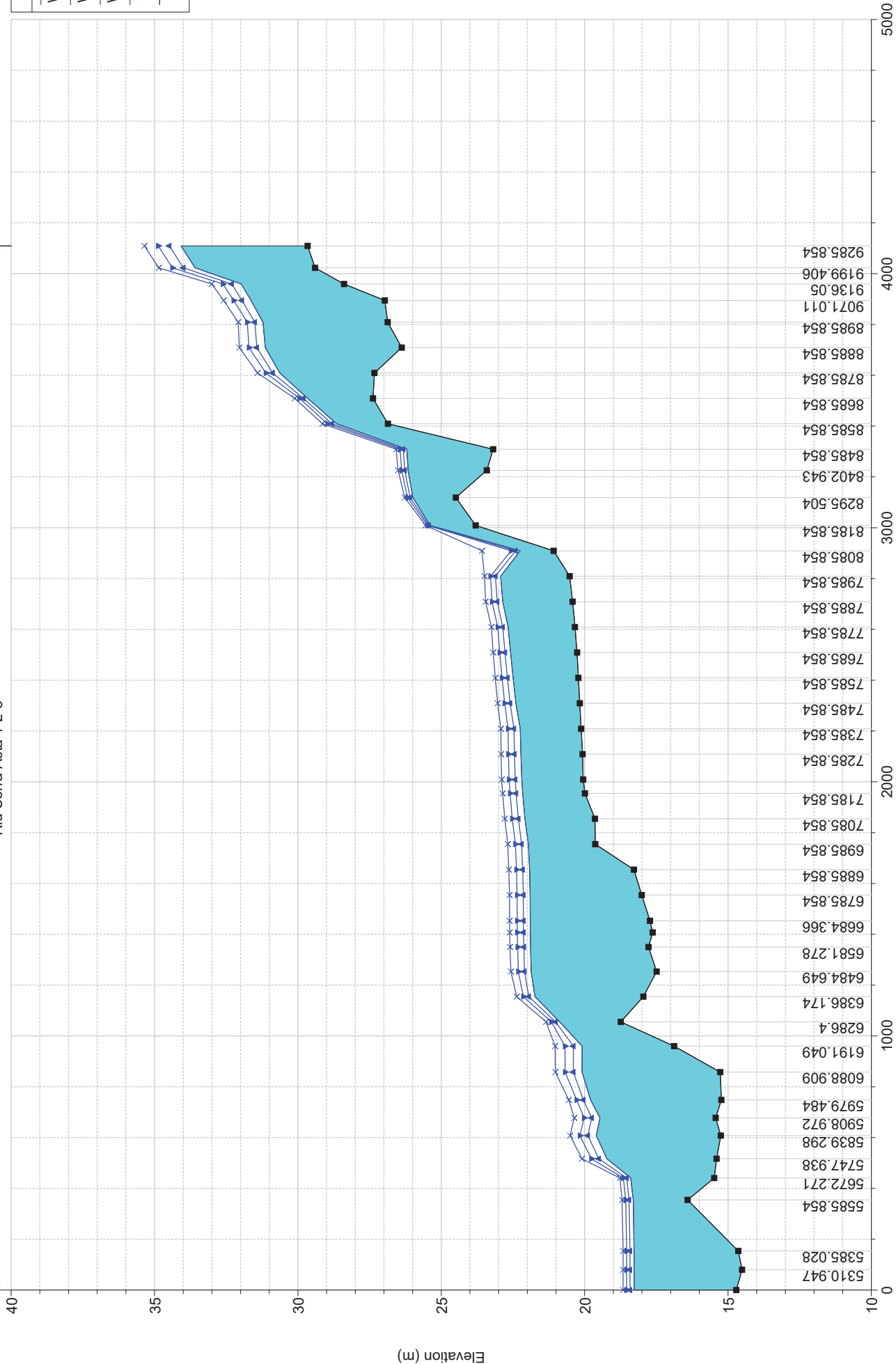
Riu Serra Asta 5

rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA

Riu Serra Asta 1-2-3

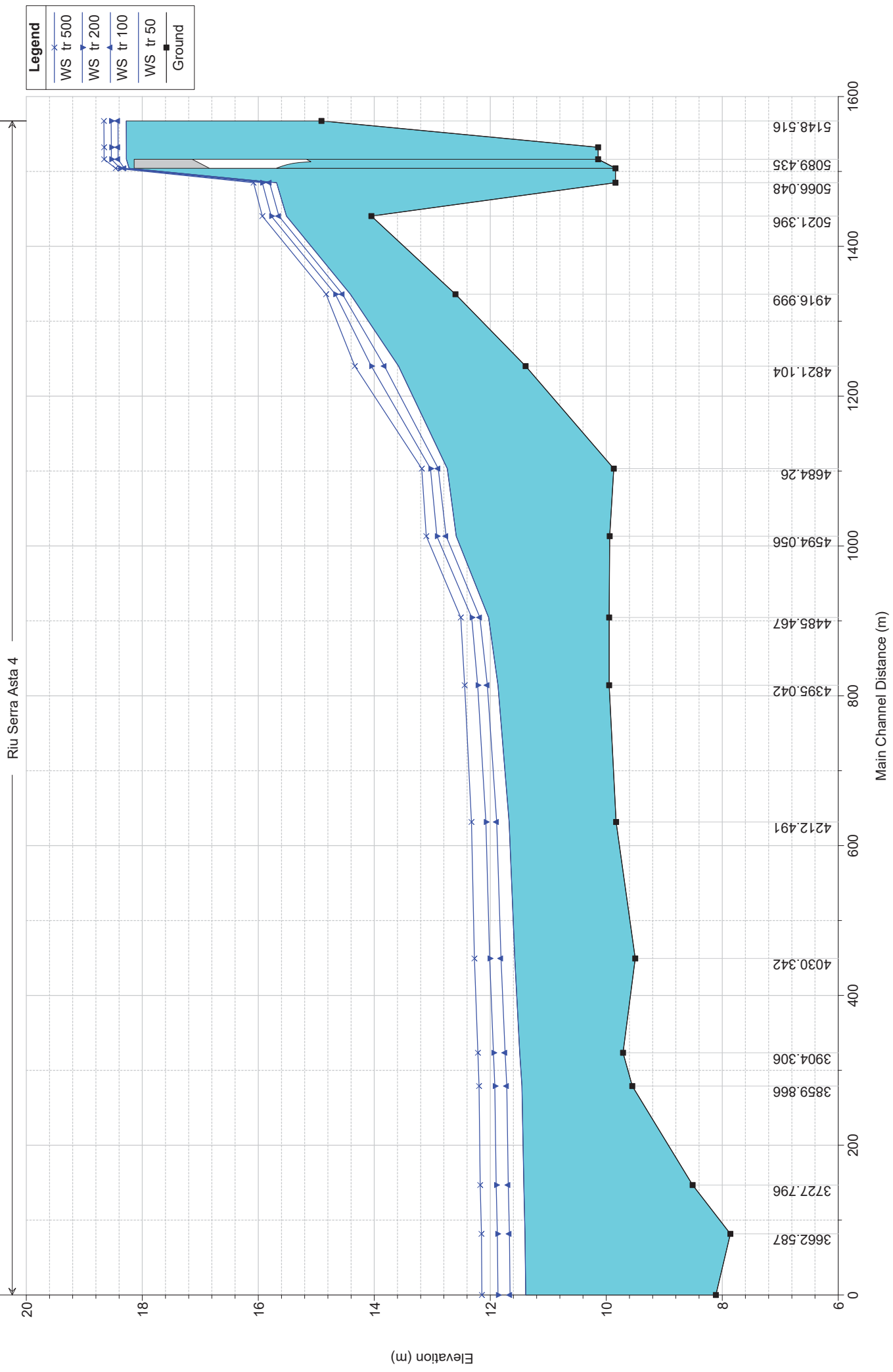
Legend	
WS tr 500	x
WS tr 200	▲
WS tr 100	▼
WS tr 50	■
Ground	■



Main Channel Distance (m)

Elevation (m)

rioserra_28092017 Plan: Plan 02 10/14/2020
Geom: rioserra_28092017 Flow: rioserra_14102020VS COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



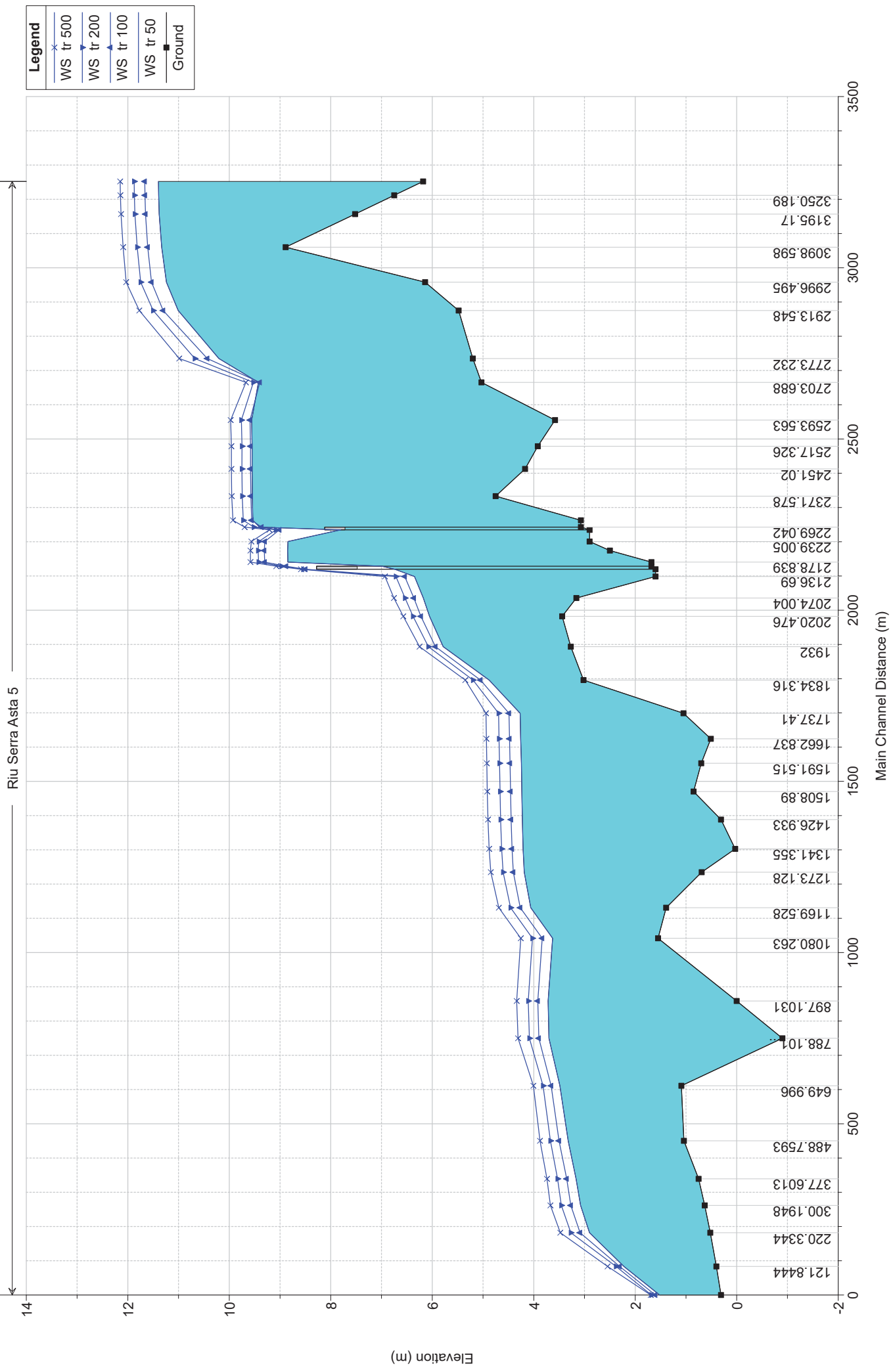
Riu Serra Asta 4

Main Channel Distance (m)

Elevation (m)

rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA

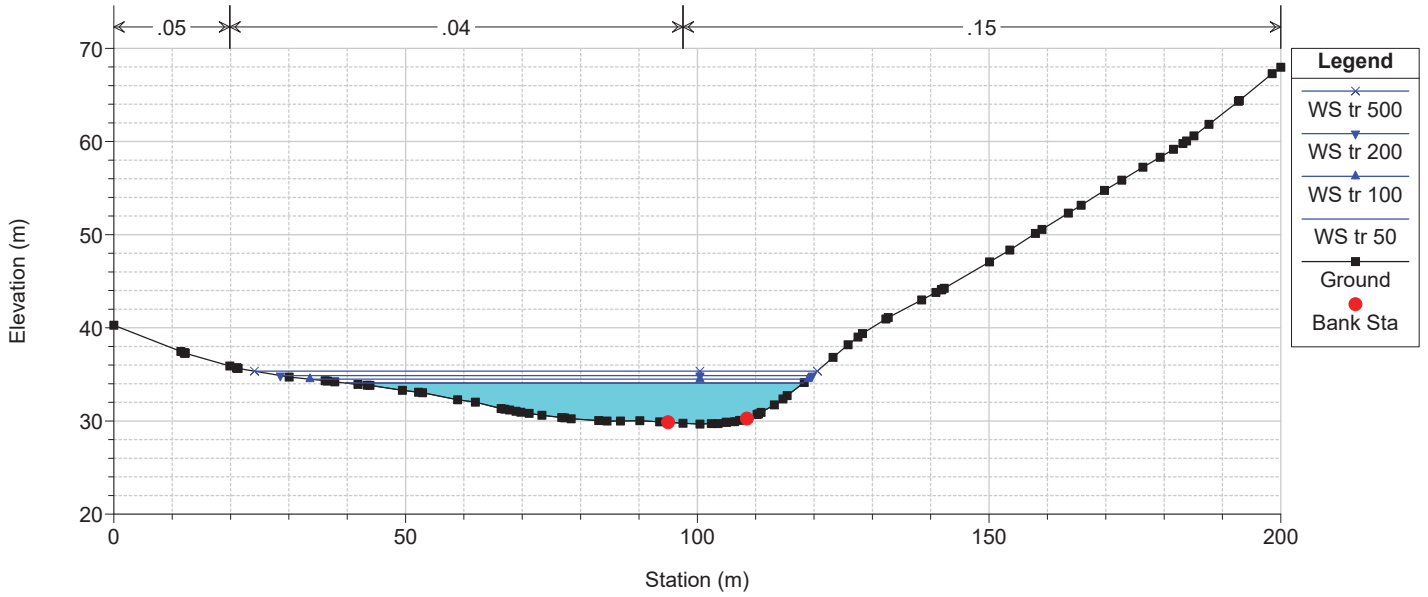


Riu Serra Asta 5

rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

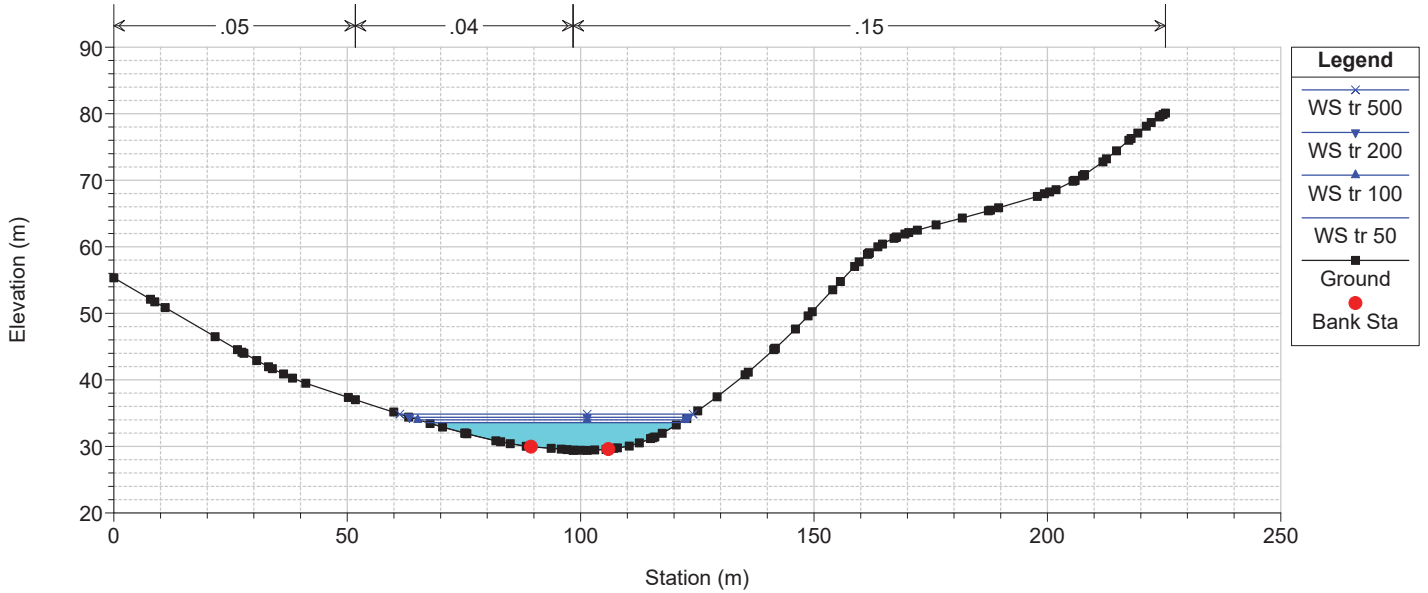
River = Riu Serra Reach = Asta 1-2-3 RS = 9285.854 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

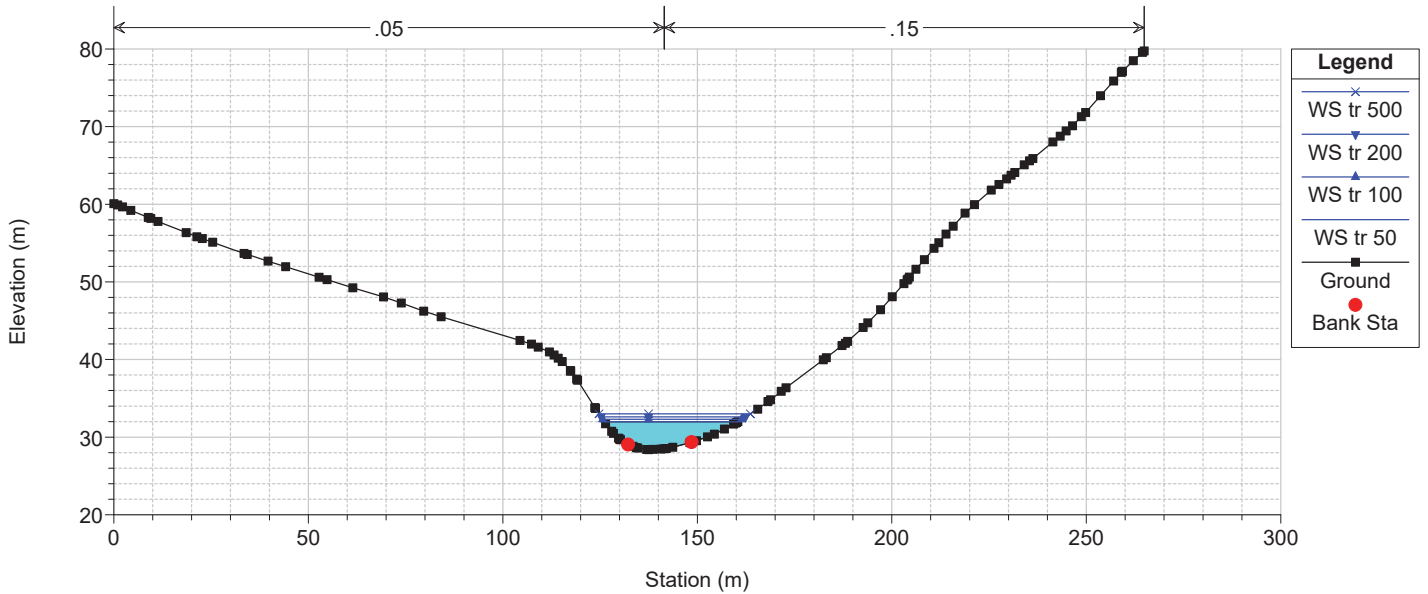
River = Riu Serra Reach = Asta 1-2-3 RS = 9199.406 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

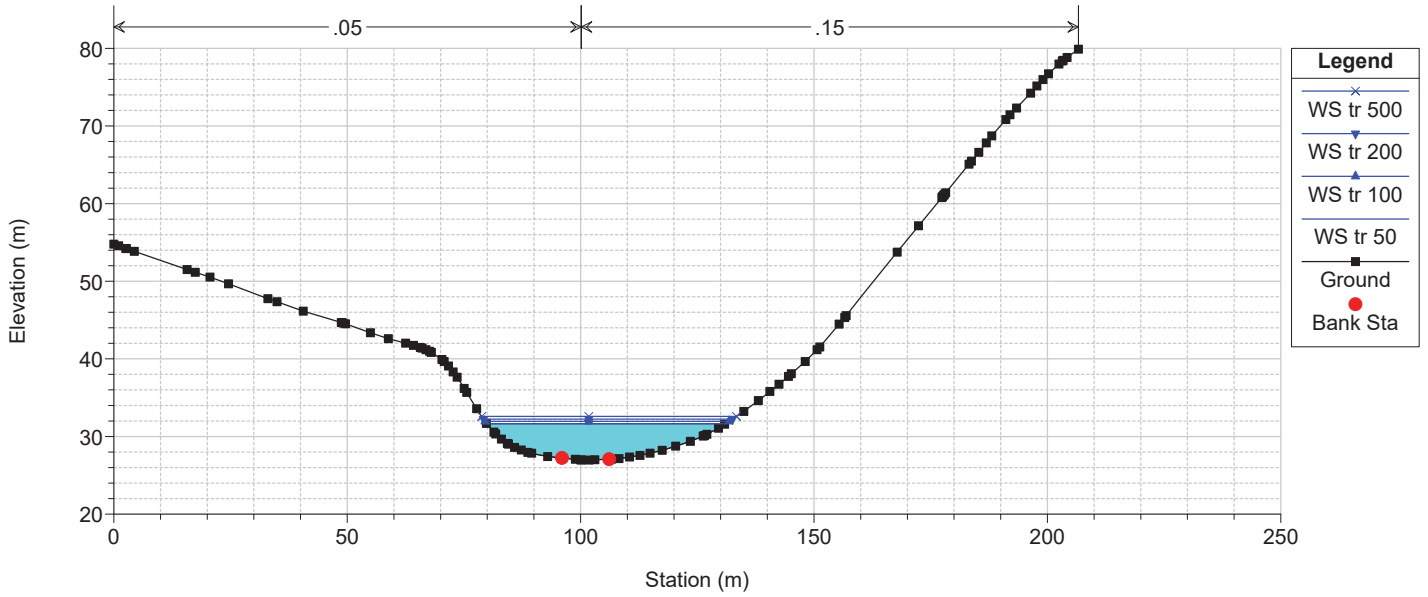
River = Riu Serra Reach = Asta 1-2-3 RS = 9136.05 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

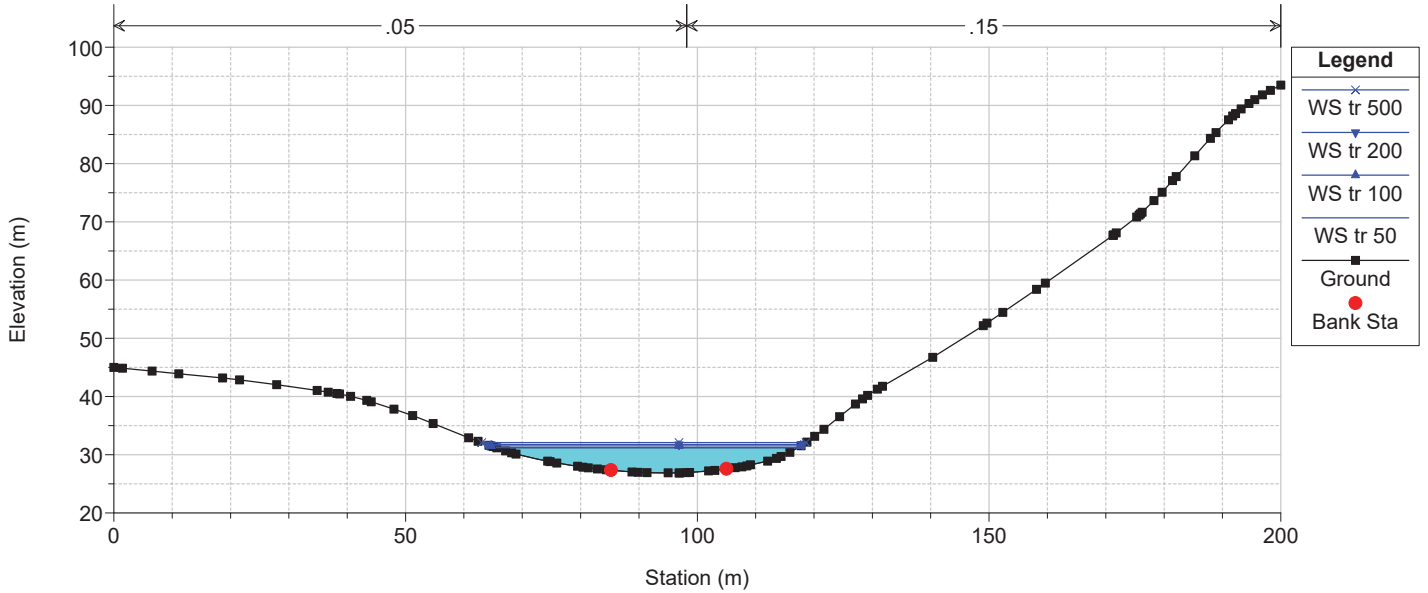
River = Riu Serra Reach = Asta 1-2-3 RS = 9071.011 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

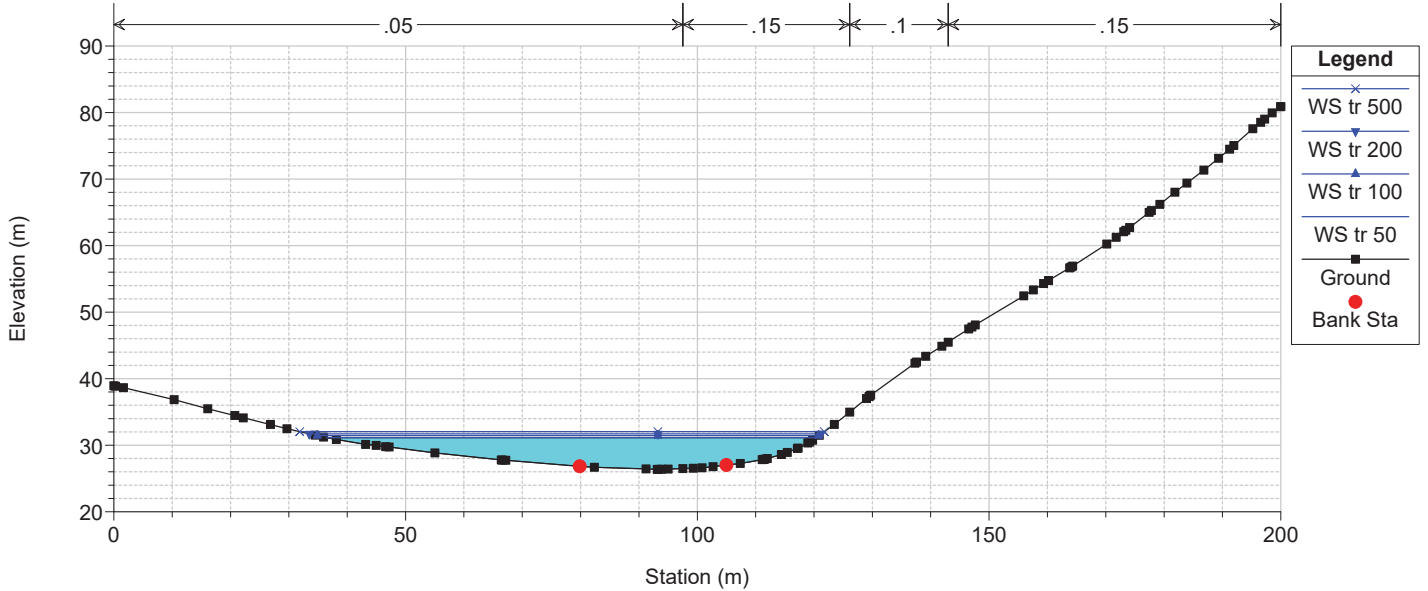
River = Riu Serra Reach = Asta 1-2-3 RS = 8985.854 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

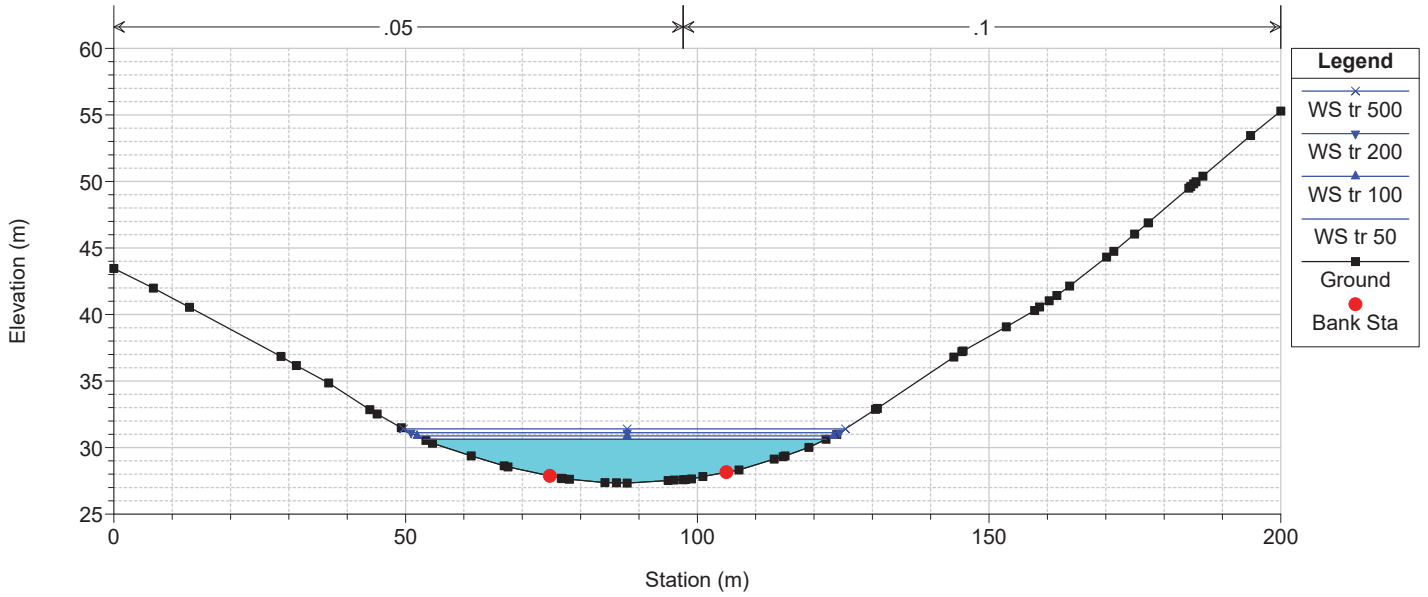
River = Riu Serra Reach = Asta 1-2-3 RS = 8885.854 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

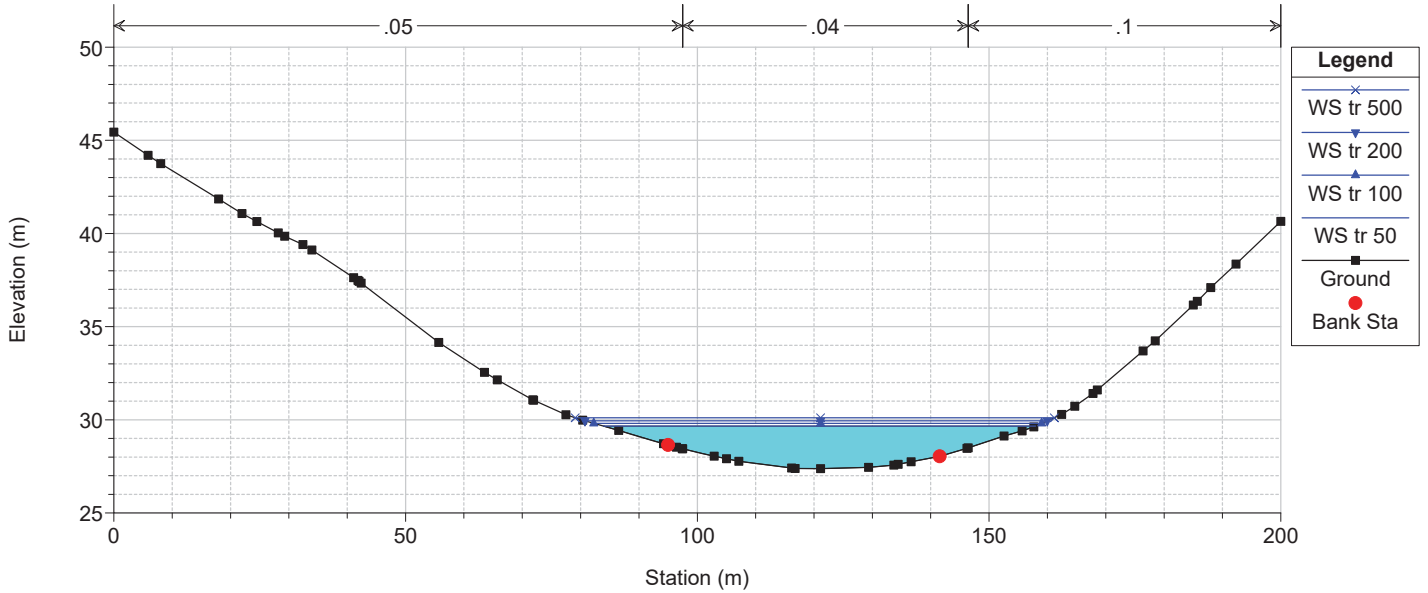
River = Riu Serra Reach = Asta 1-2-3 RS = 8785.854 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

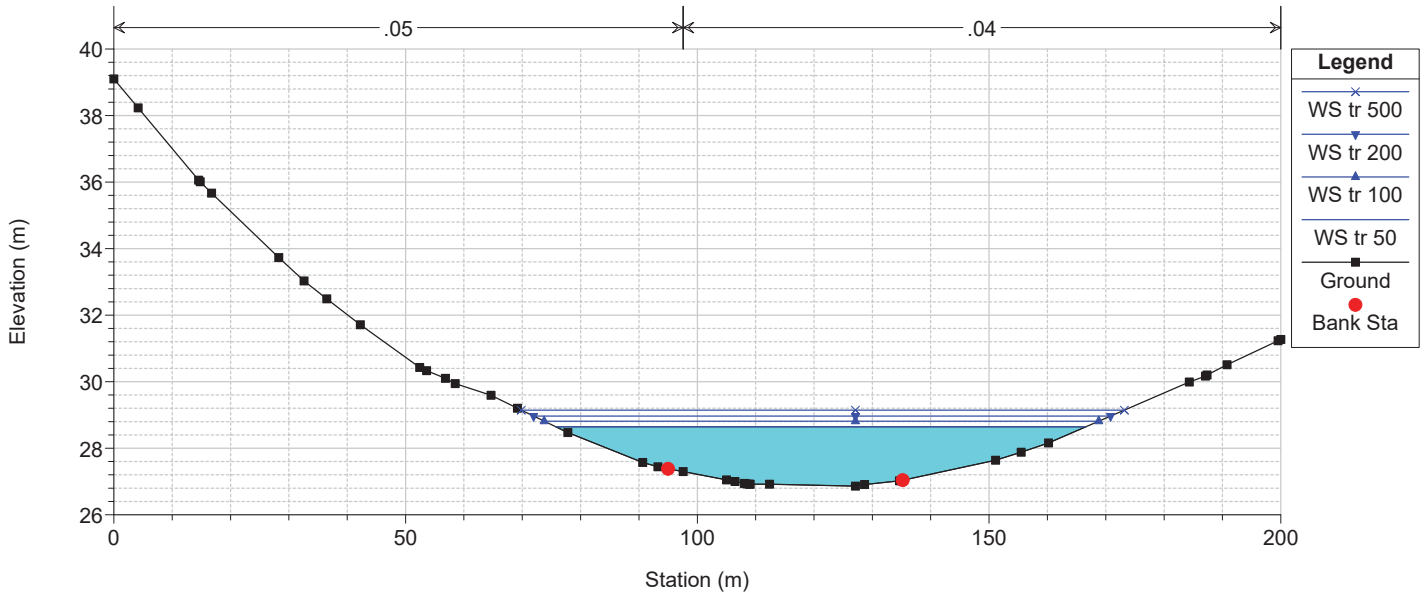
River = Riu Serra Reach = Asta 1-2-3 RS = 8685.854 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

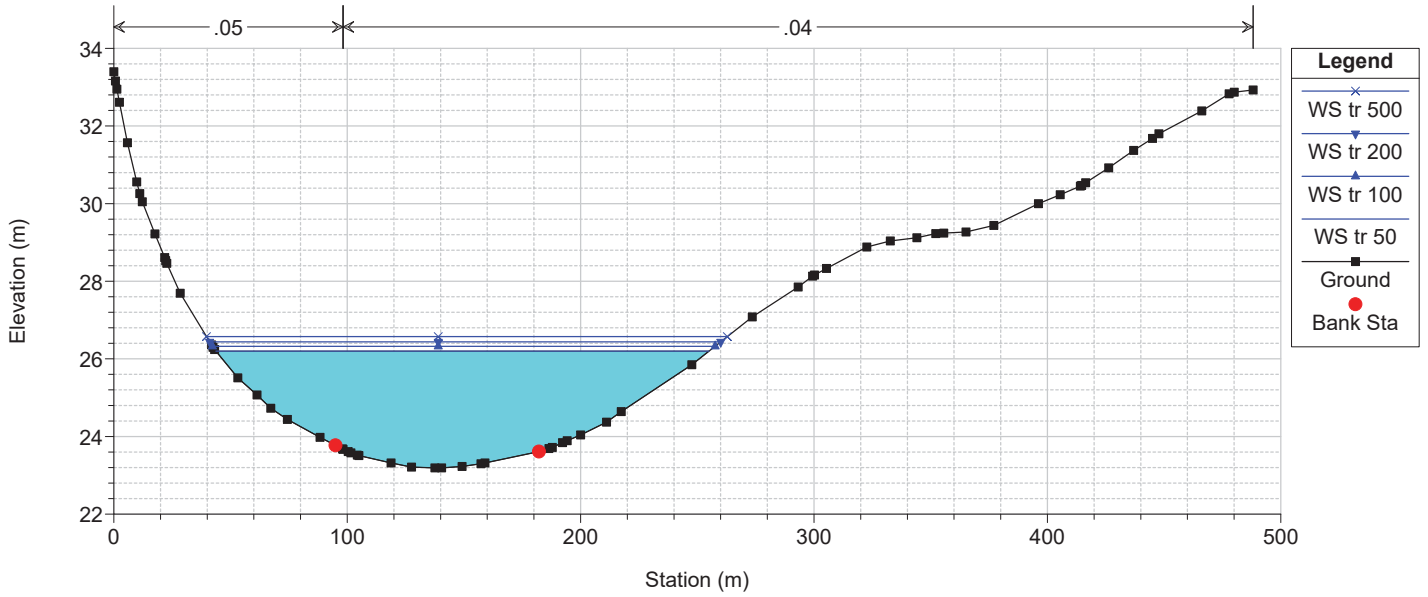
River = Riu Serra Reach = Asta 1-2-3 RS = 8585.854 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

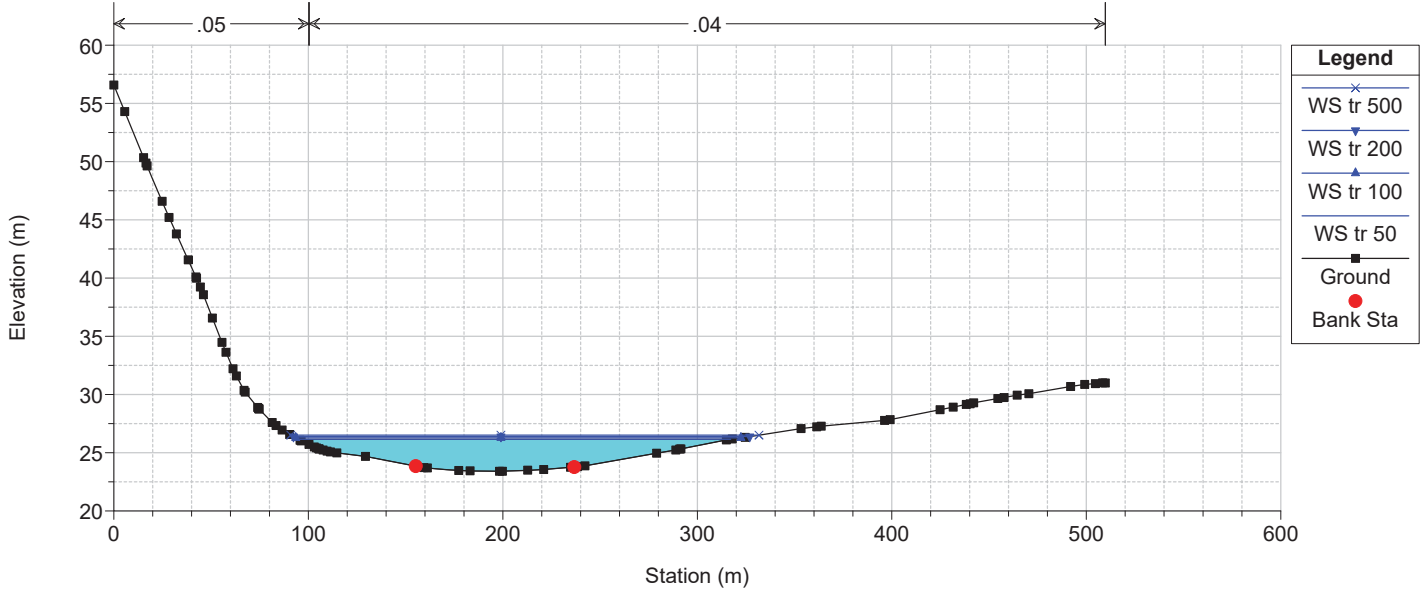
River = Riu Serra Reach = Asta 1-2-3 RS = 8485.854 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

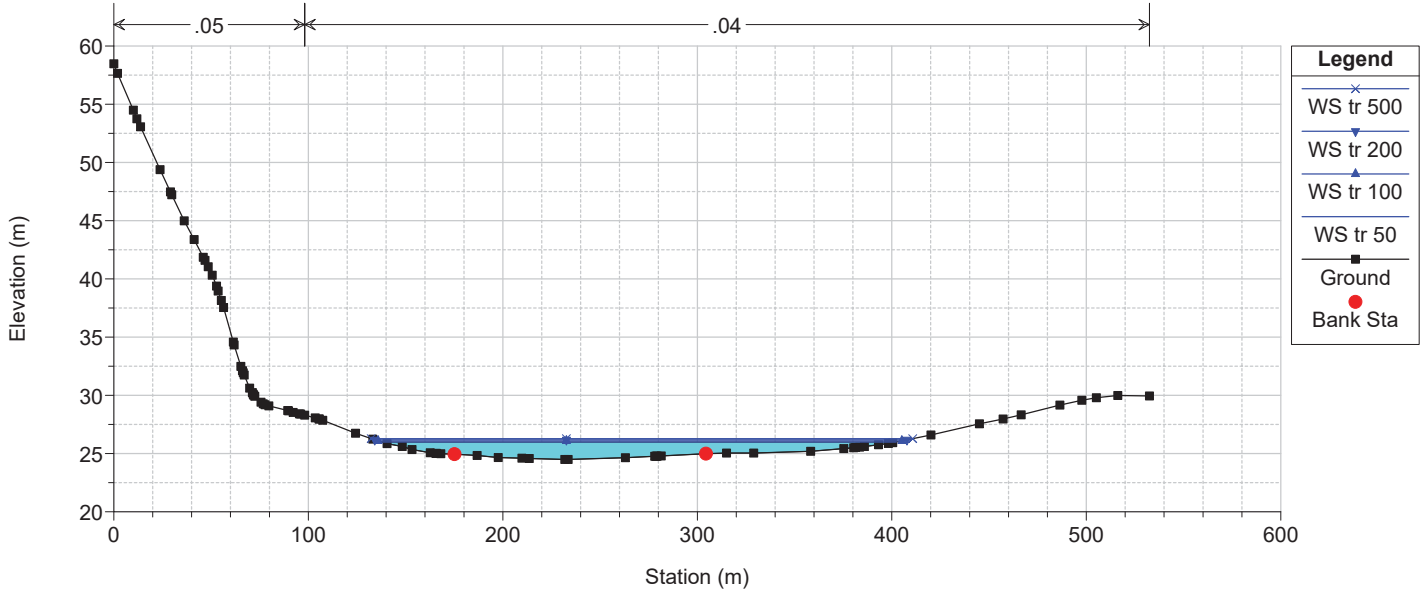
River = Riu Serra Reach = Asta 1-2-3 RS = 8402.943 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

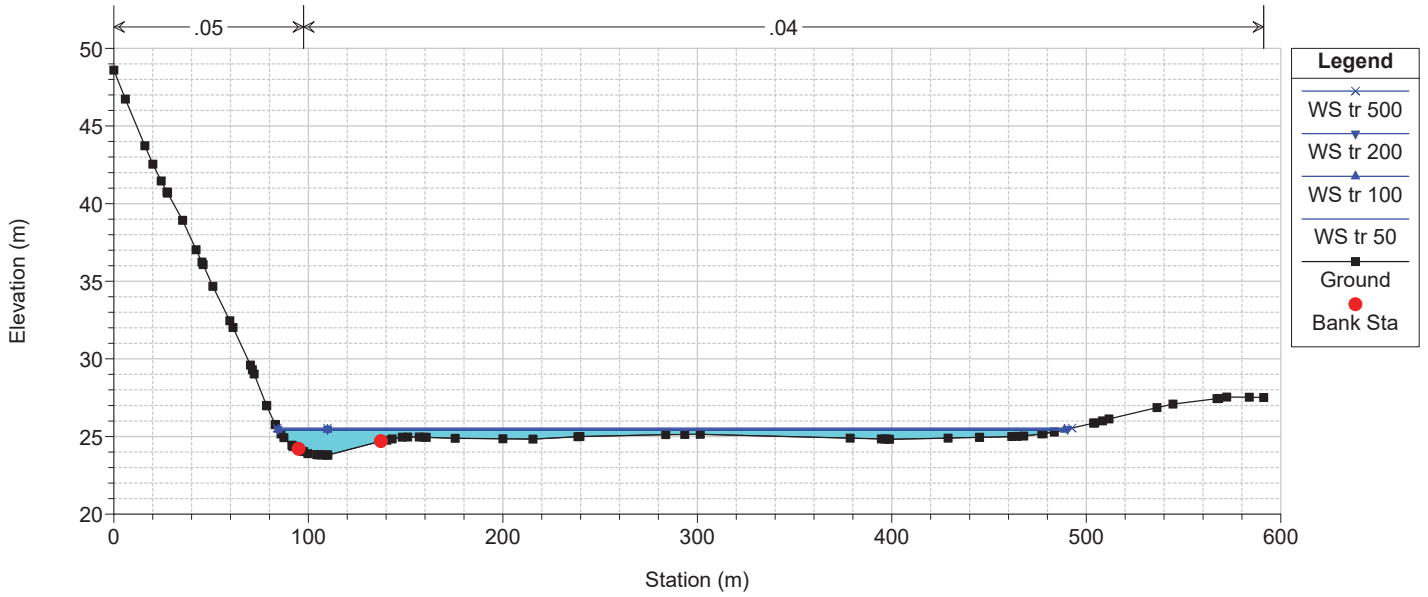
River = Riu Serra Reach = Asta 1-2-3 RS = 8295.504 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

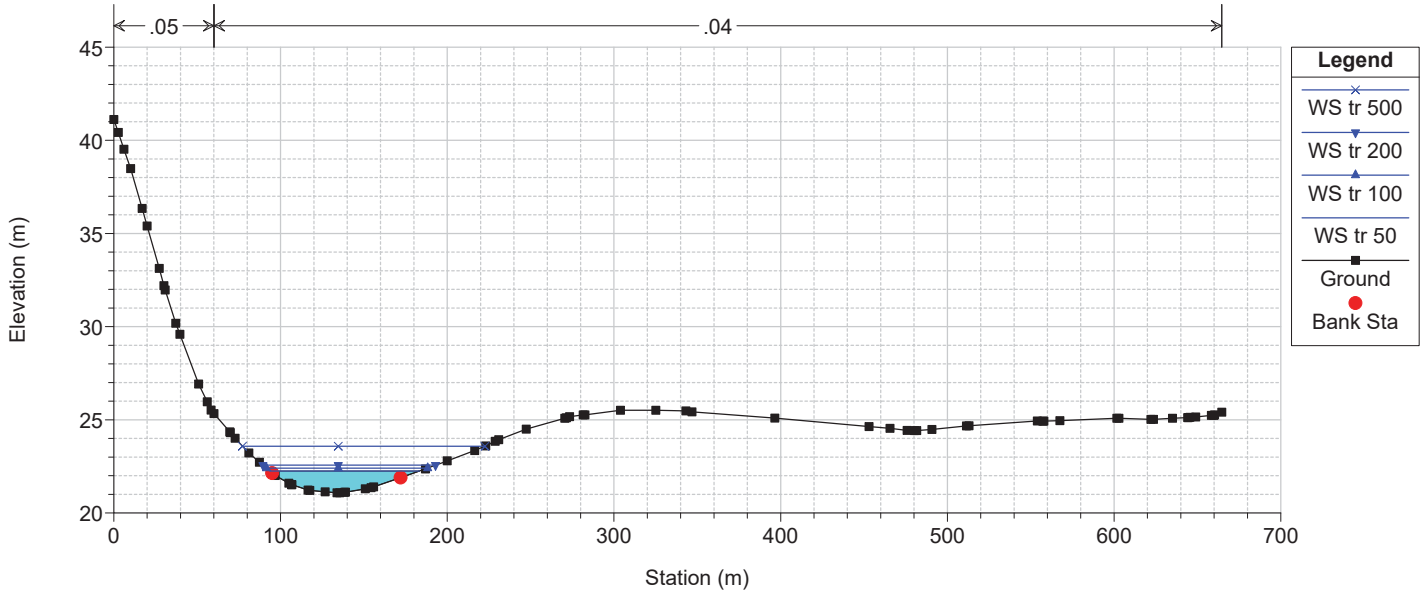
River = Riu Serra Reach = Asta 1-2-3 RS = 8185.854 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

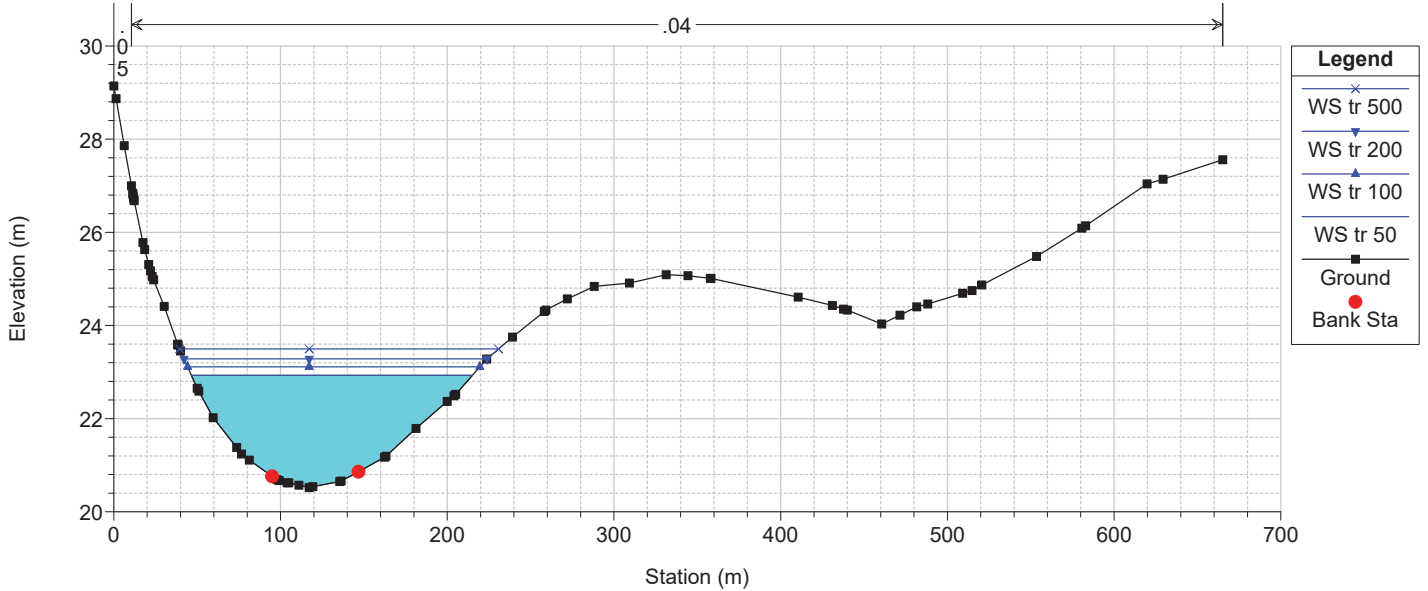
River = Riu Serra Reach = Asta 1-2-3 RS = 8085.854 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

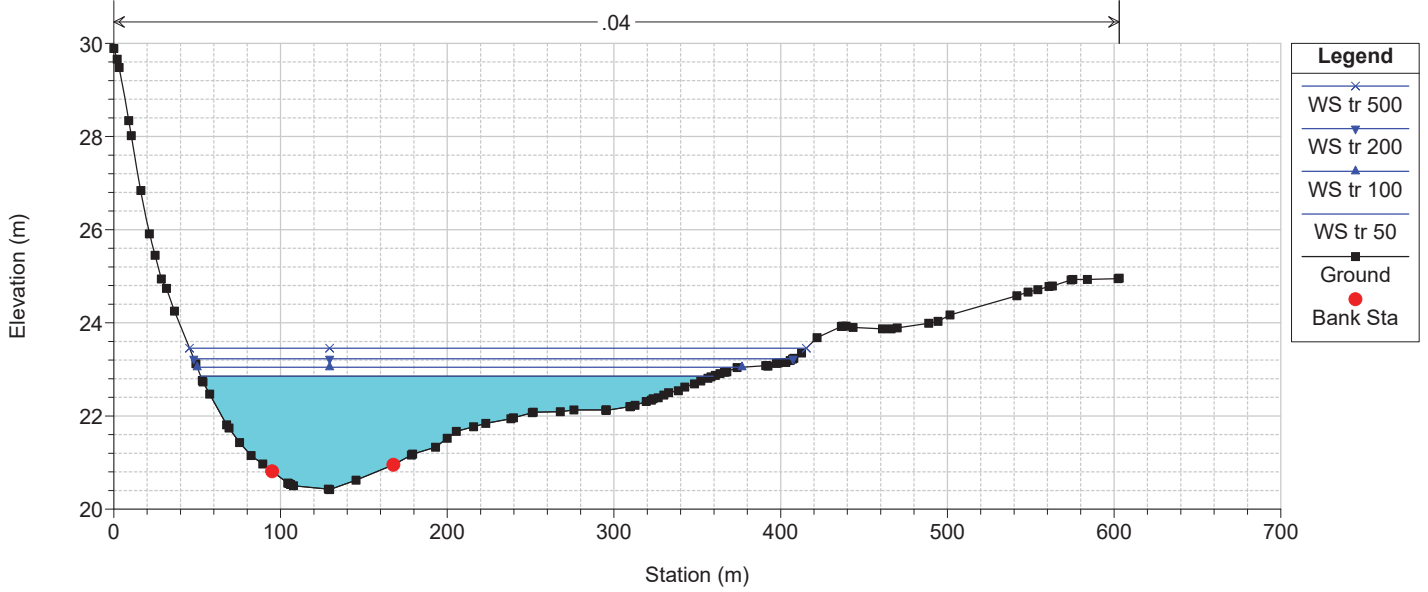
River = Riu Serra Reach = Asta 1-2-3 RS = 7985.854 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

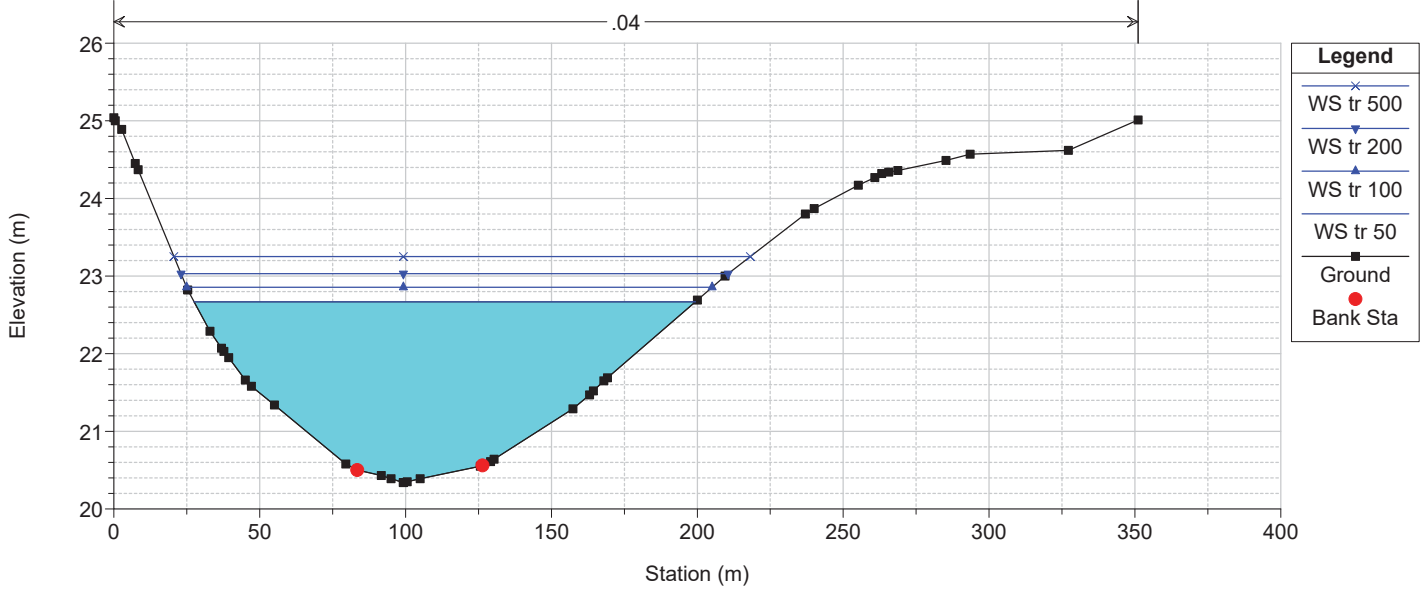
River = Riu Serra Reach = Asta 1-2-3 RS = 7885.854 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

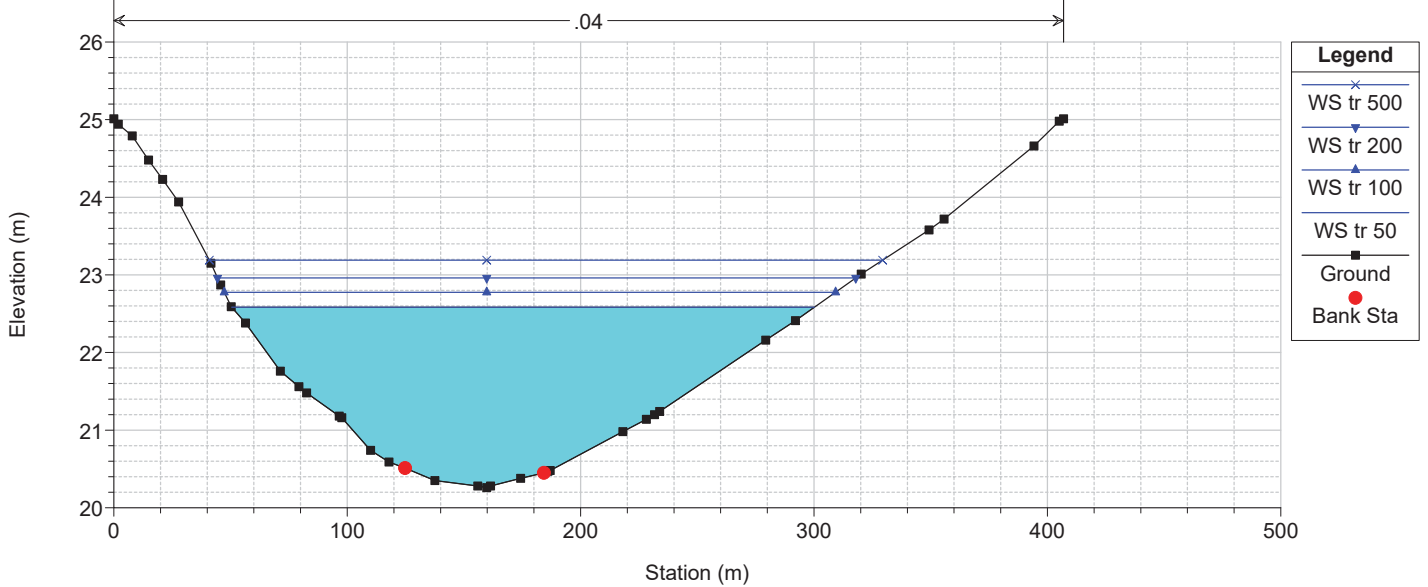
River = Riu Serra Reach = Asta 1-2-3 RS = 7785.854 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

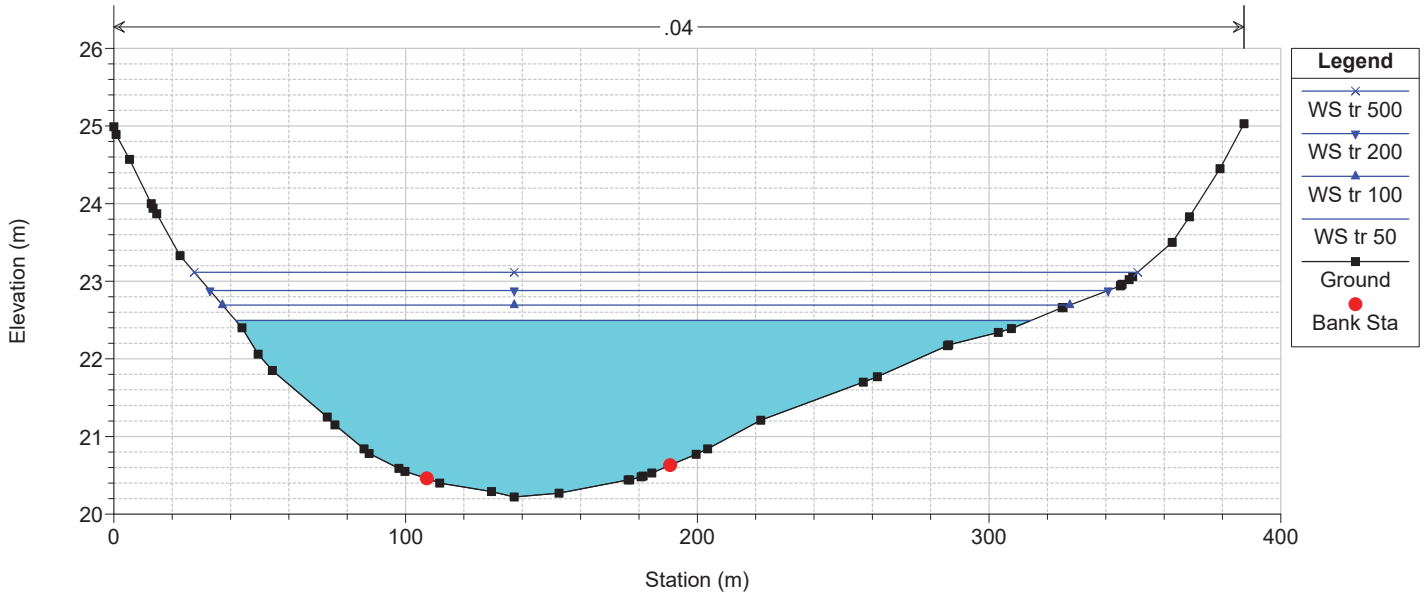
River = Riu Serra Reach = Asta 1-2-3 RS = 7685.854 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

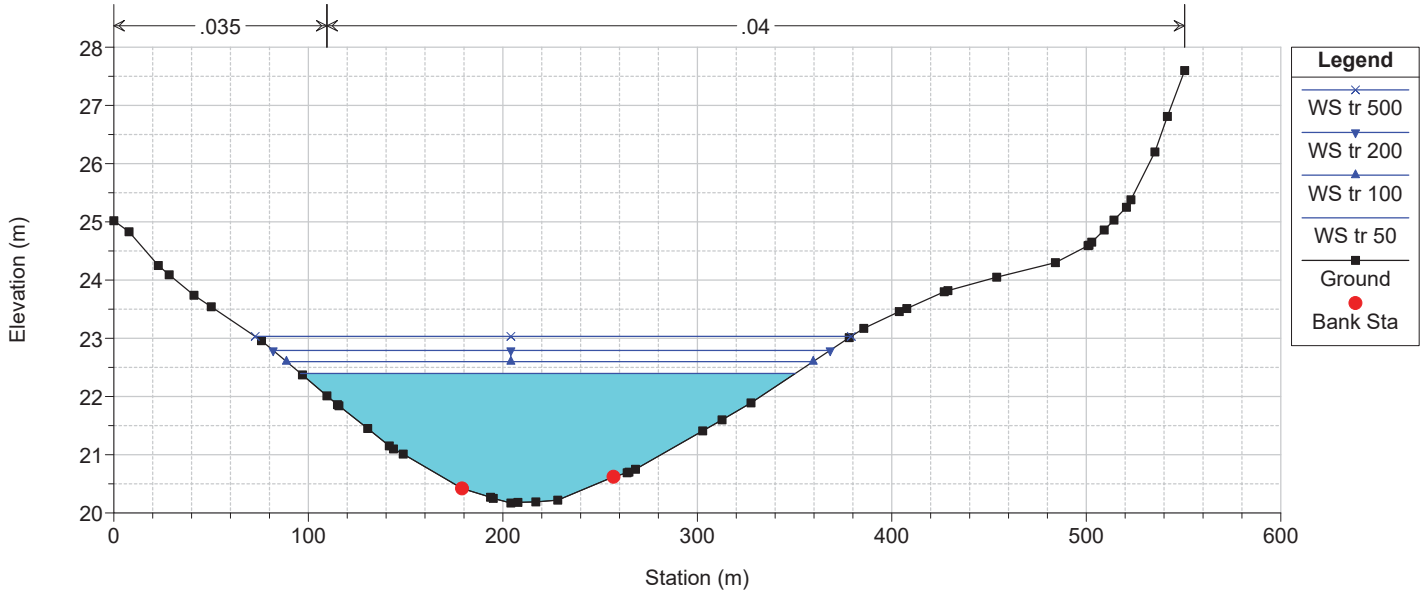
River = Riu Serra Reach = Asta 1-2-3 RS = 7585.854 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

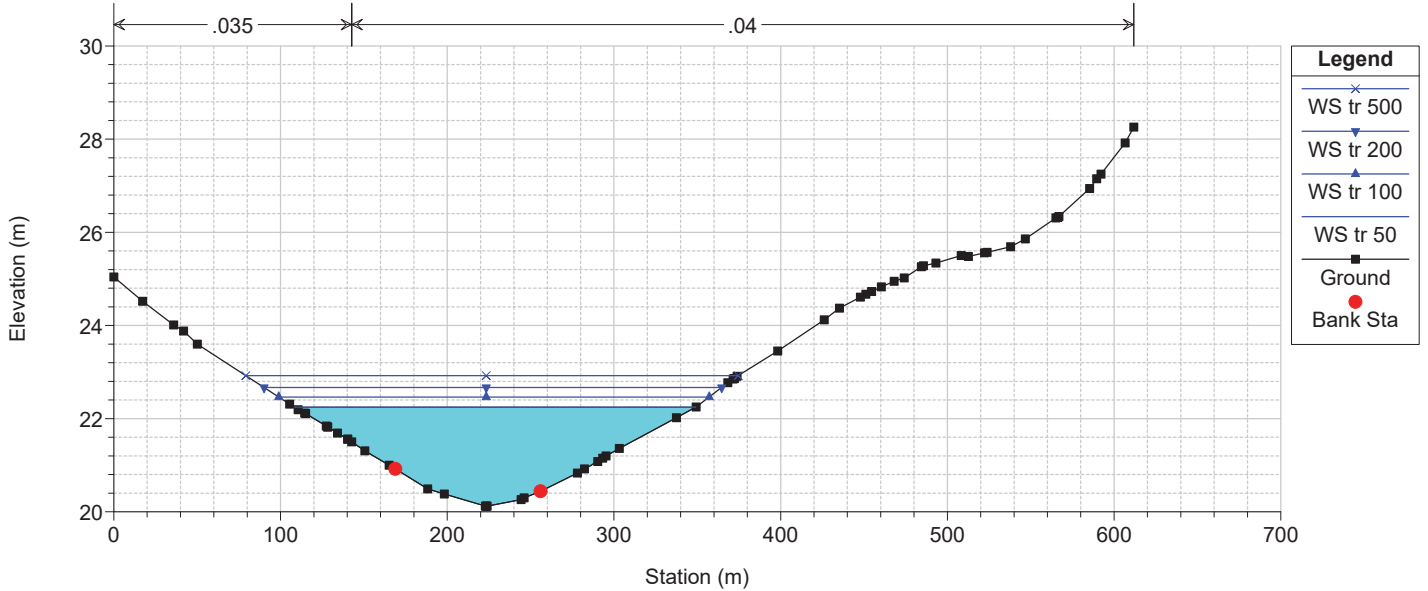
River = Riu Serra Reach = Asta 1-2-3 RS = 7485.854 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

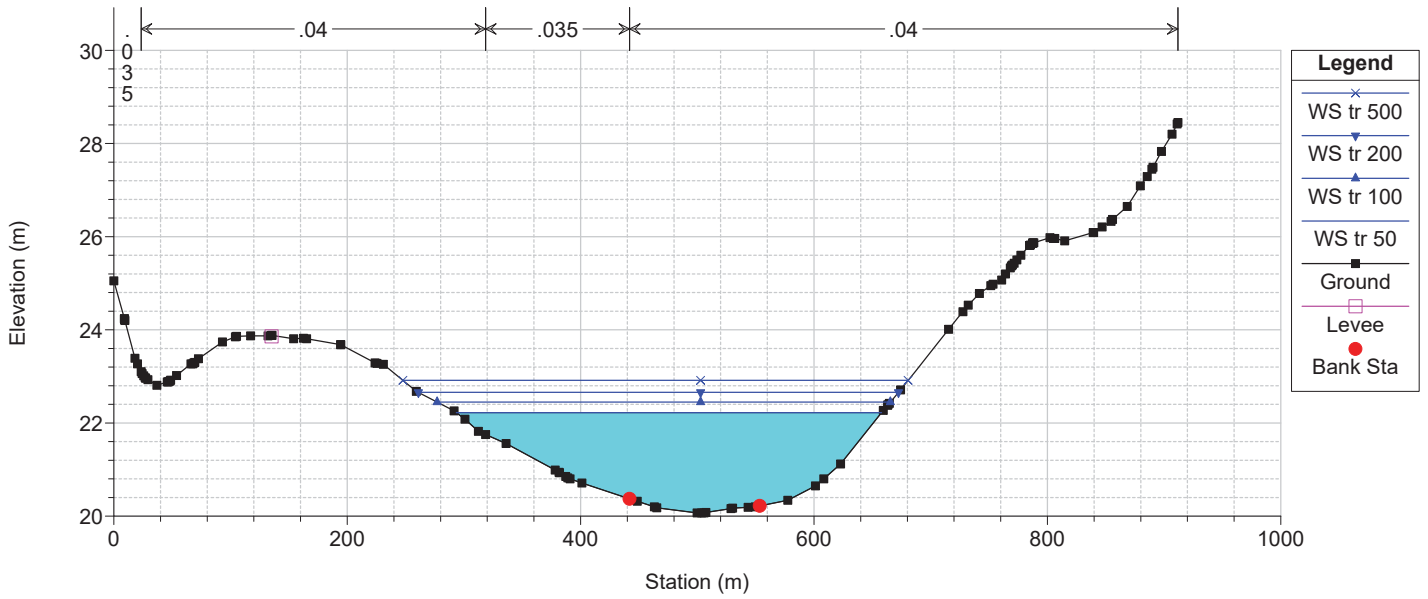
River = Riu Serra Reach = Asta 1-2-3 RS = 7385.854 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

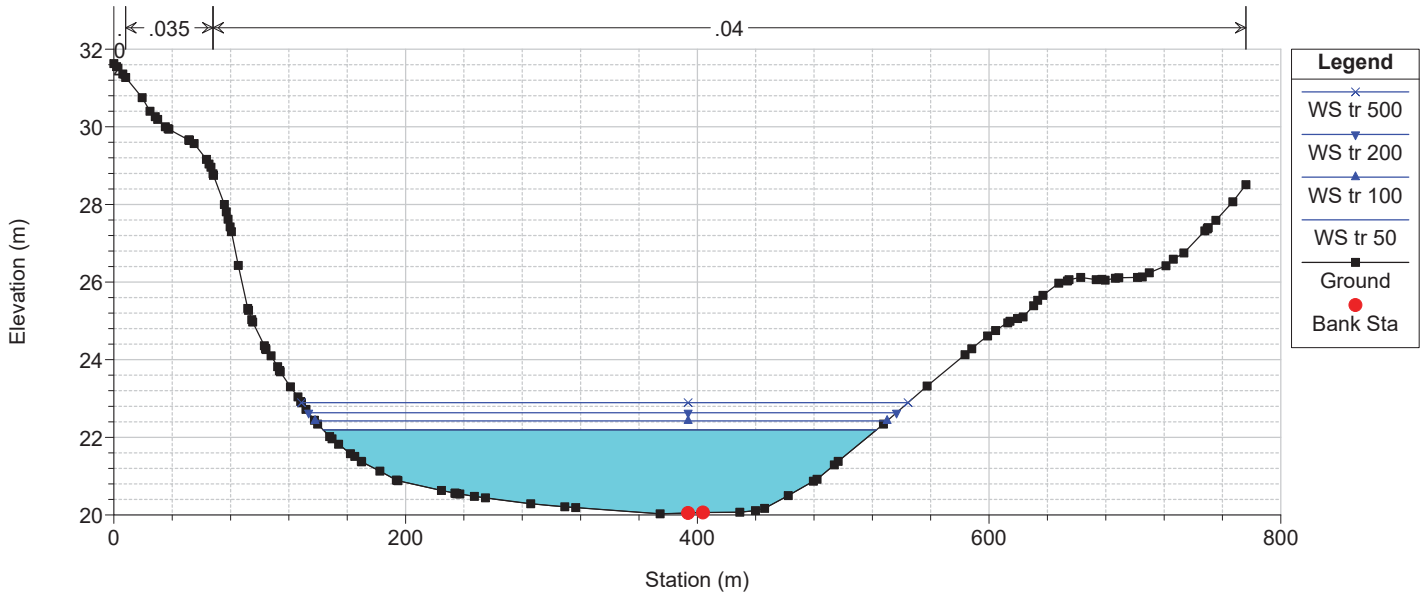
River = Riu Serra Reach = Asta 1-2-3 RS = 7285.854 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

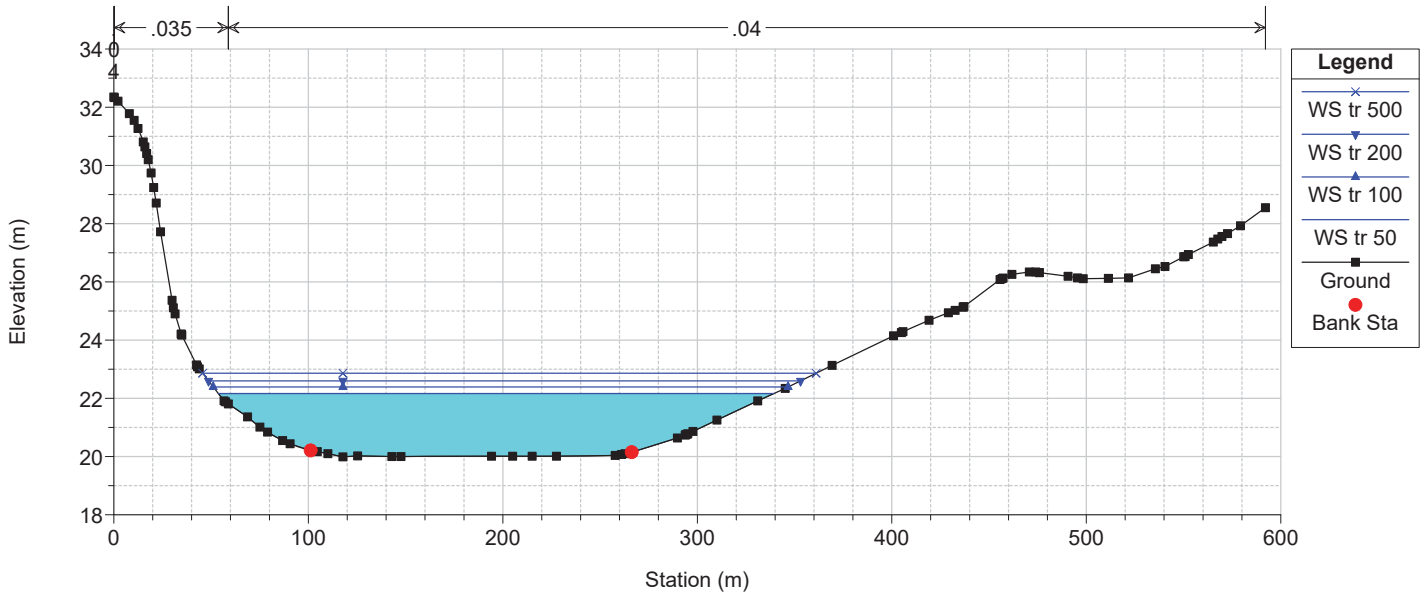
River = Riu Serra Reach = Asta 1-2-3 RS = 7240.257 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

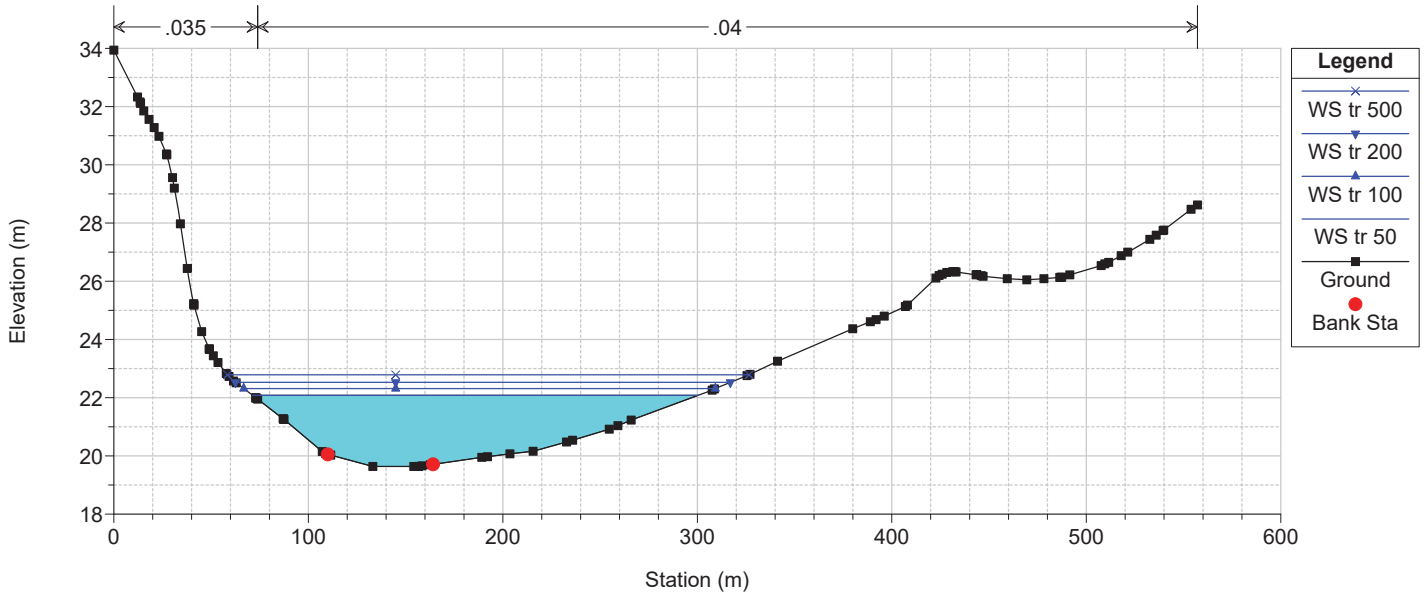
River = Riu Serra Reach = Asta 1-2-3 RS = 7185.854 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

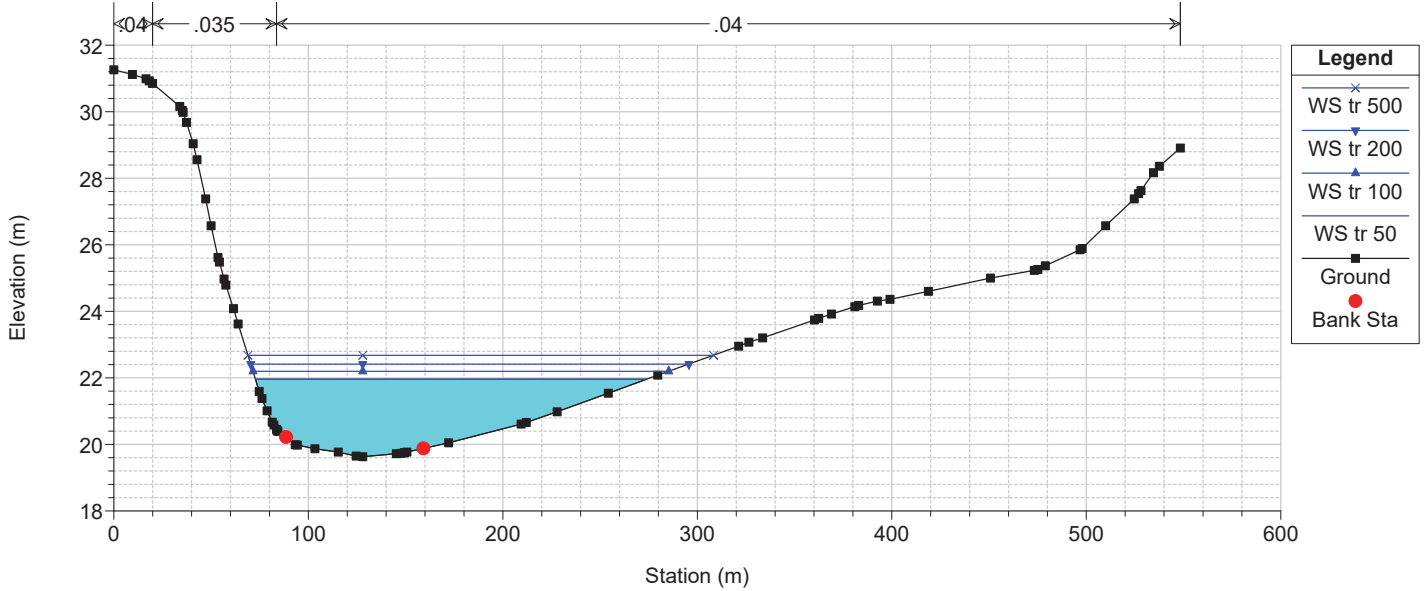
River = Riu Serra Reach = Asta 1-2-3 RS = 7085.854 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

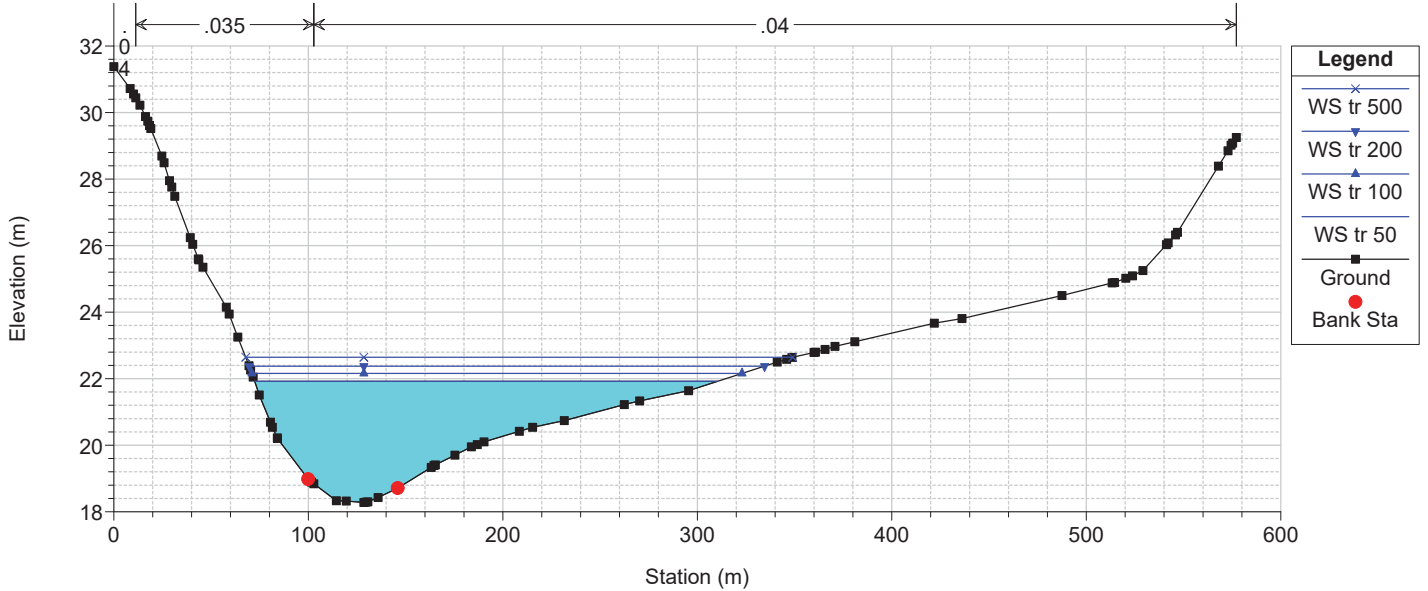
River = Riu Serra Reach = Asta 1-2-3 RS = 6985.854 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

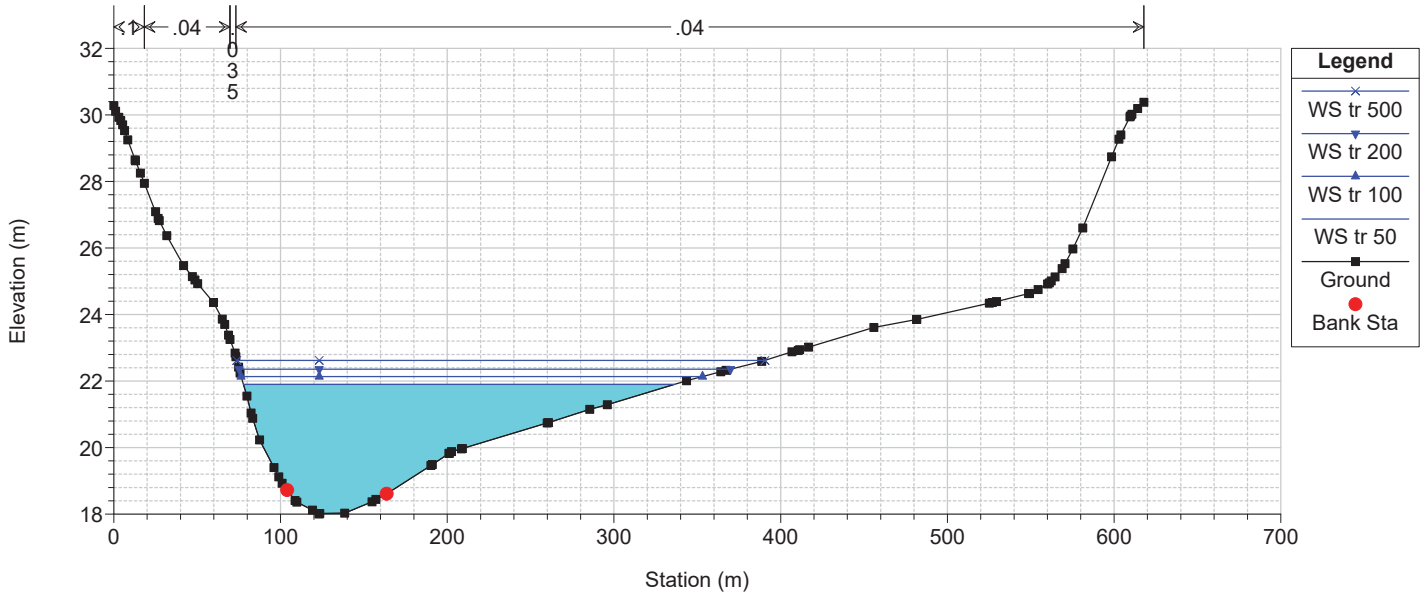
River = Riu Serra Reach = Asta 1-2-3 RS = 6885.854 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

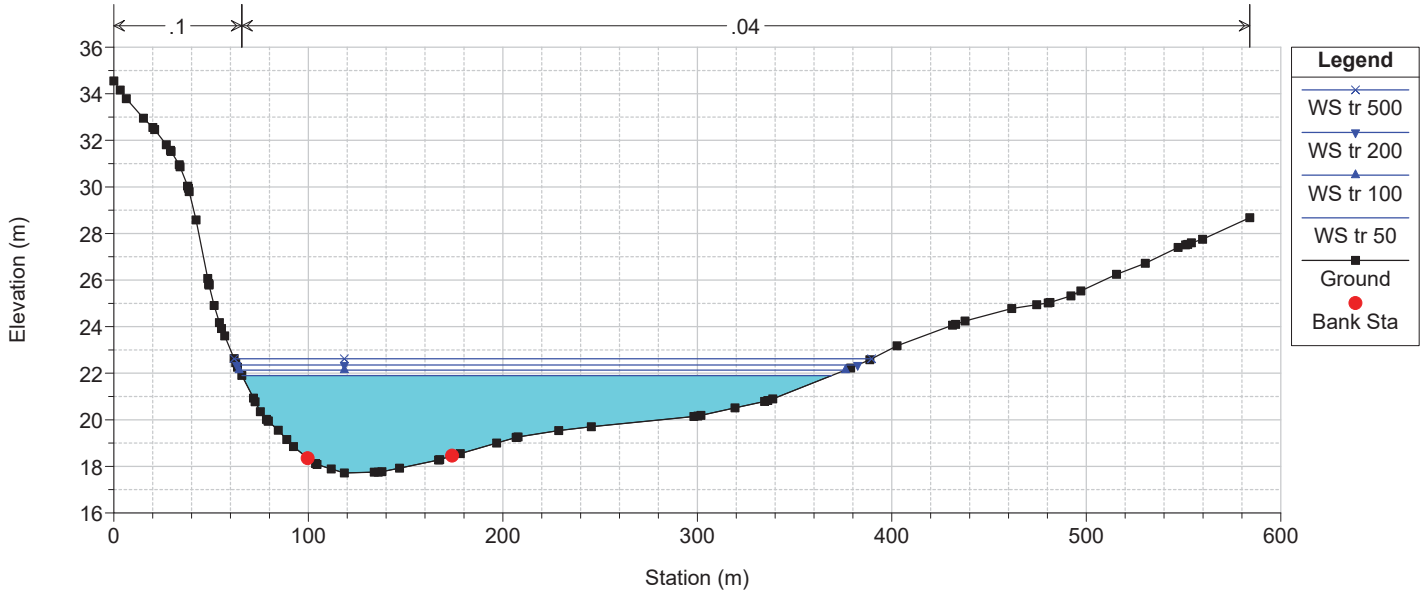
River = Riu Serra Reach = Asta 1-2-3 RS = 6785.854 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

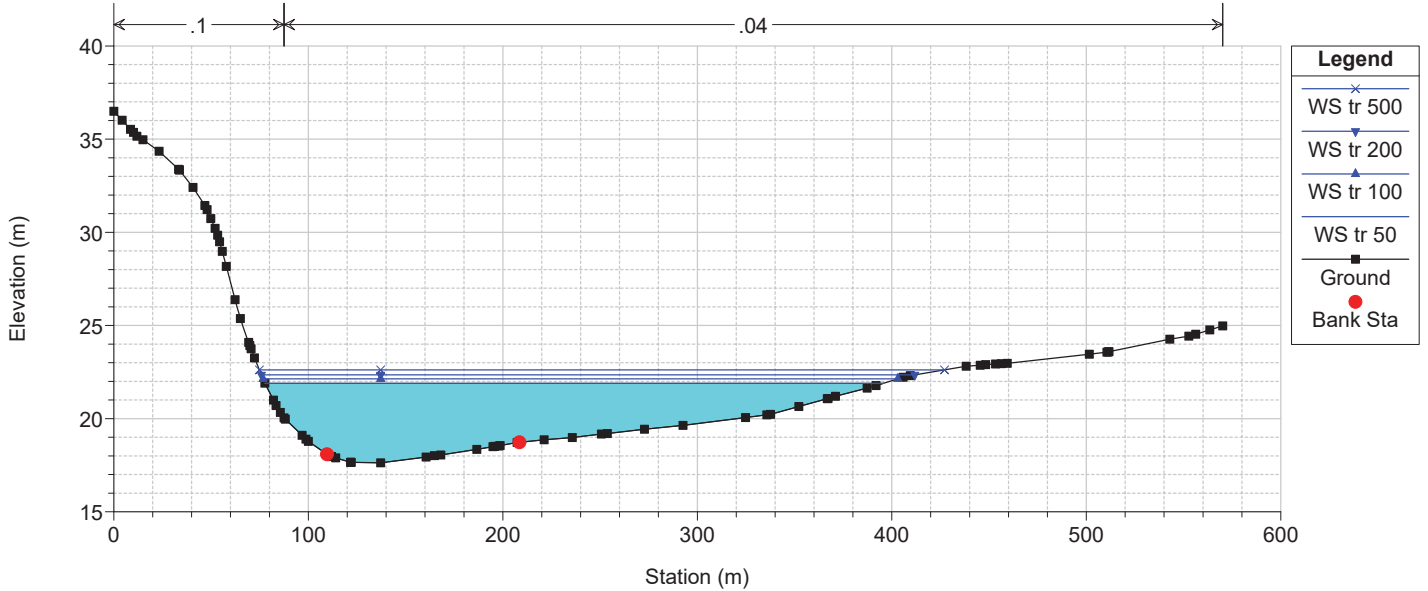
River = Riu Serra Reach = Asta 1-2-3 RS = 6684.366 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

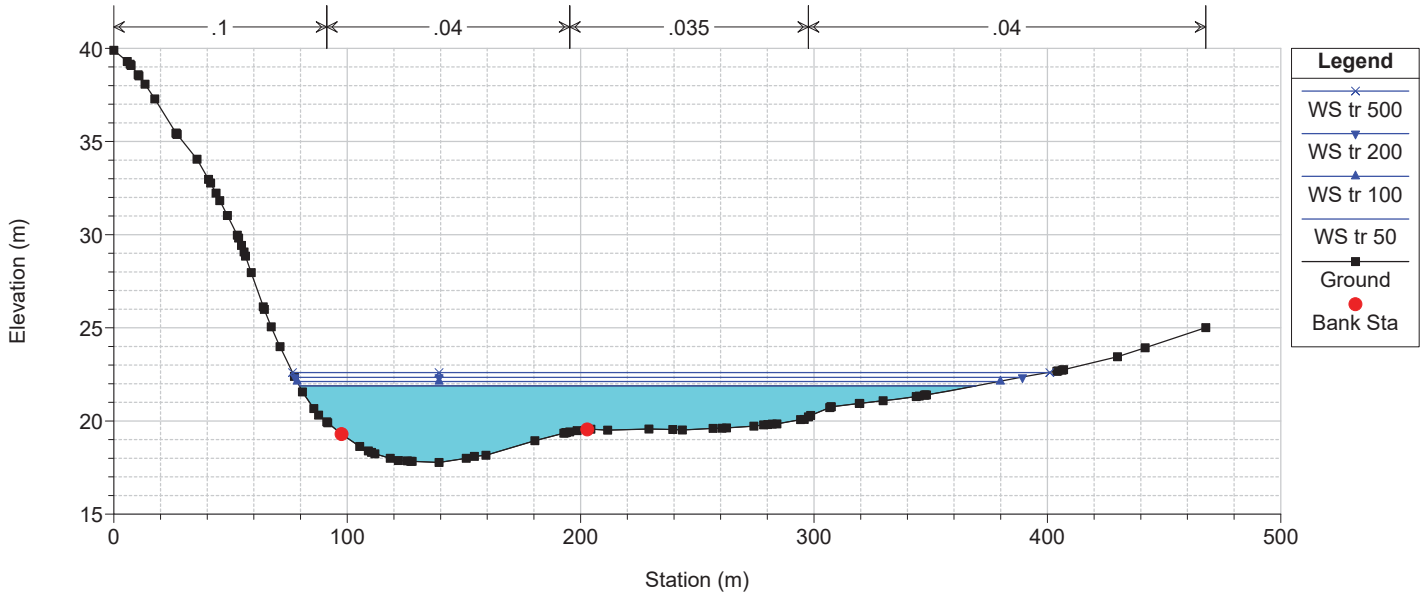
River = Riu Serra Reach = Asta 1-2-3 RS = 6638.547 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

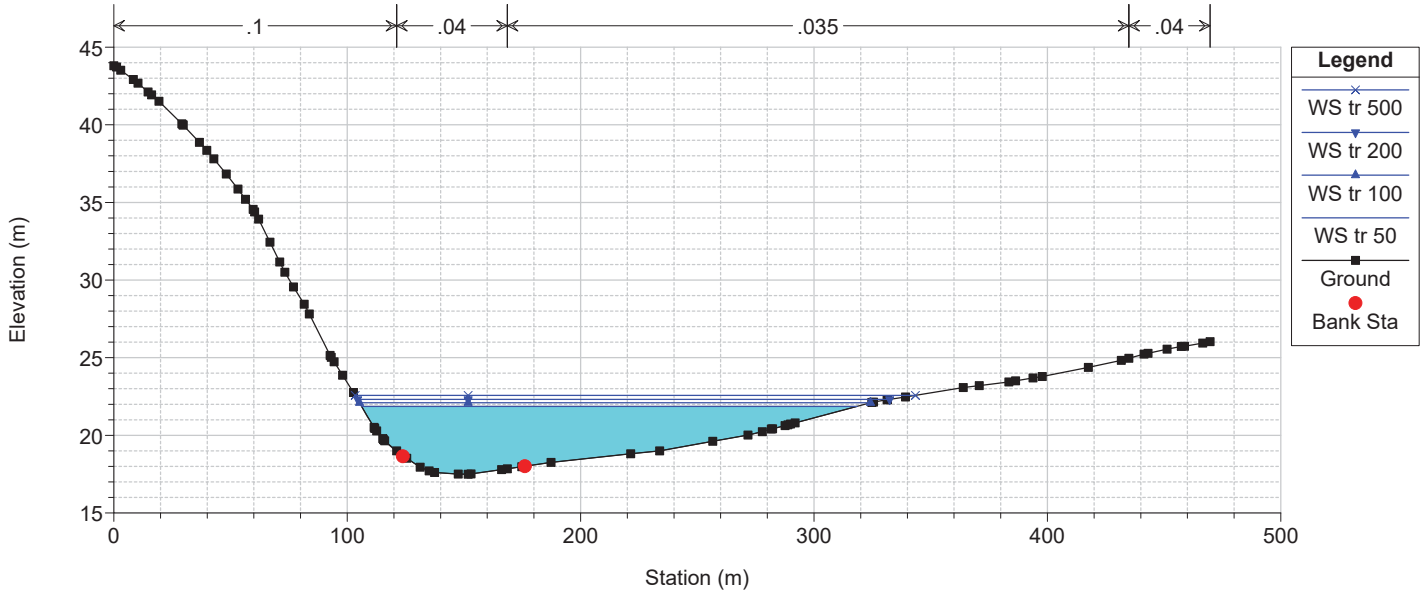
River = Riu Serra Reach = Asta 1-2-3 RS = 6581.278 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

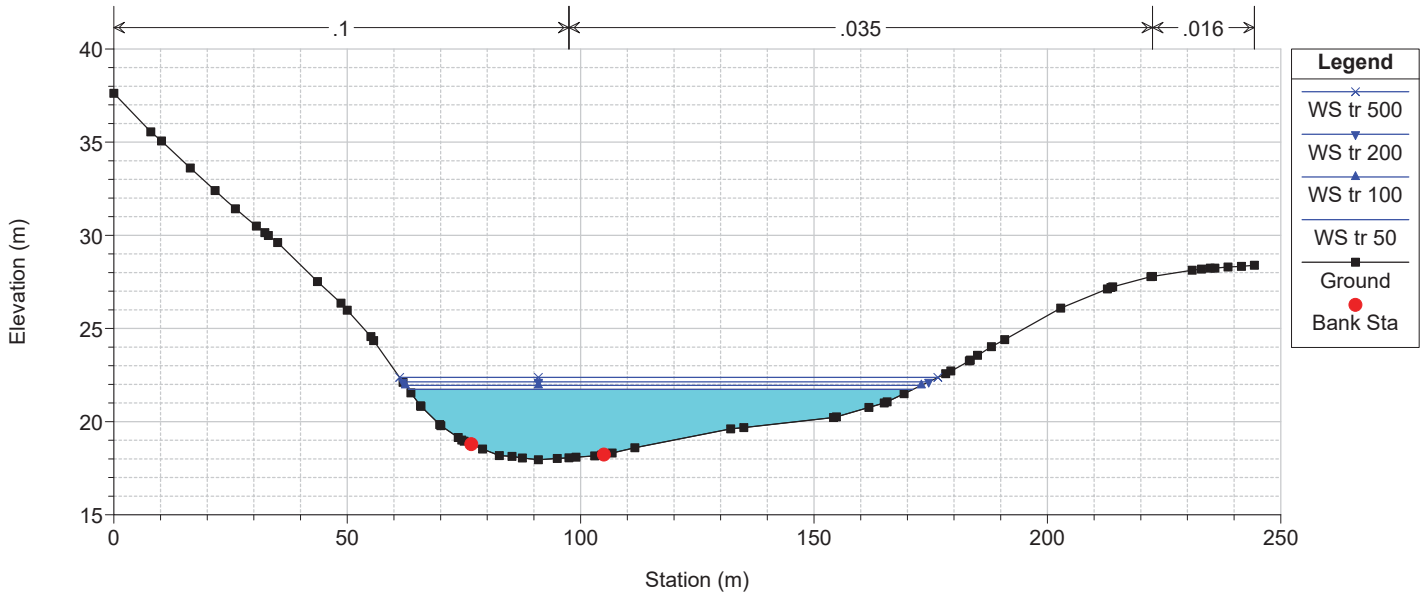
River = Riu Serra Reach = Asta 1-2-3 RS = 6484.649 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

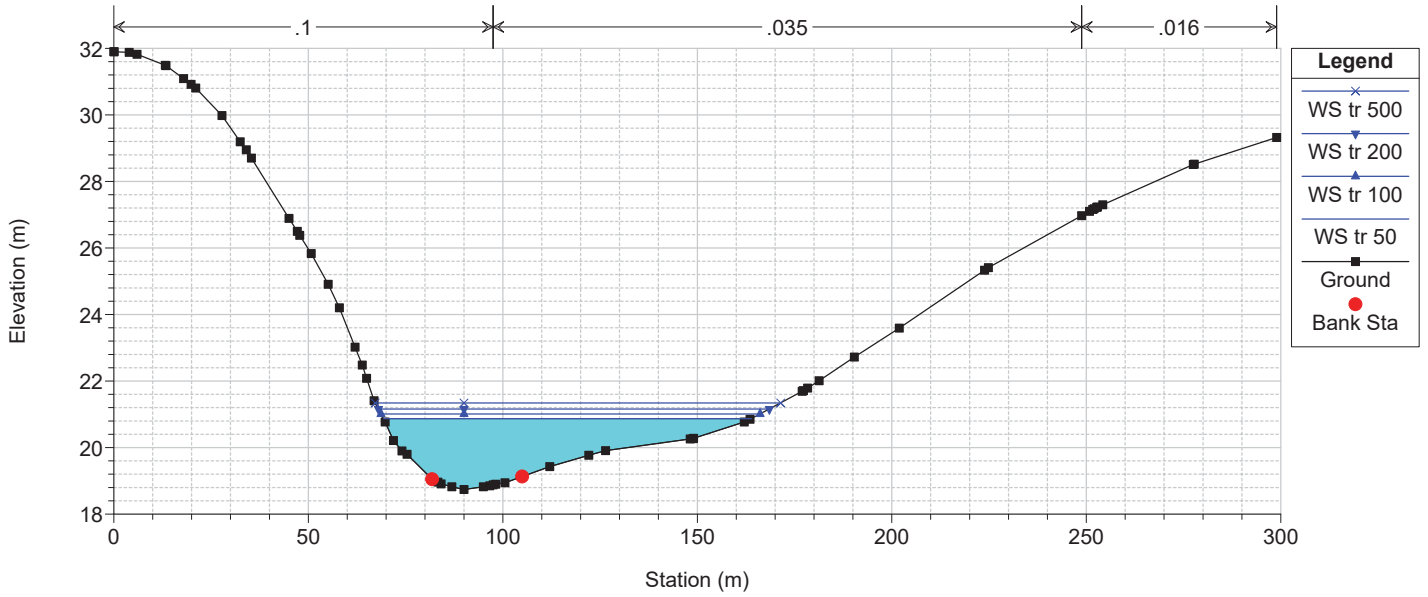
River = Riu Serra Reach = Asta 1-2-3 RS = 6386.174 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

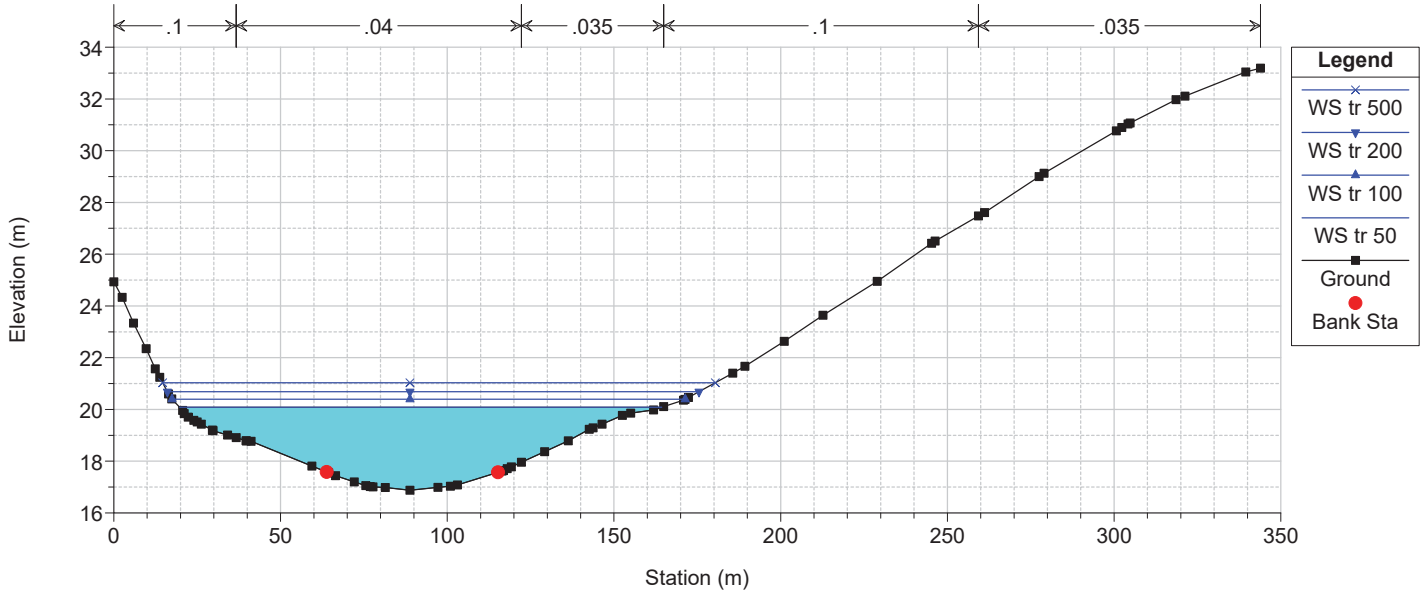
River = Riu Serra Reach = Asta 1-2-3 RS = 6286.4 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

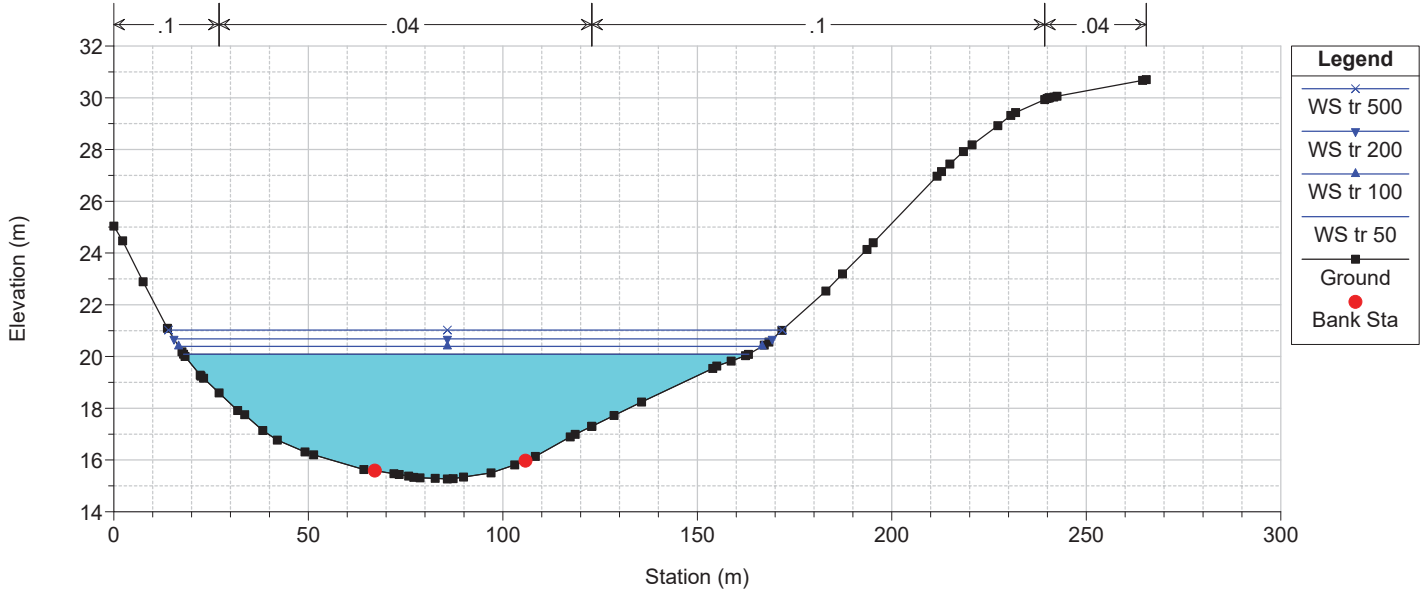
River = Riu Serra Reach = Asta 1-2-3 RS = 6191.049 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

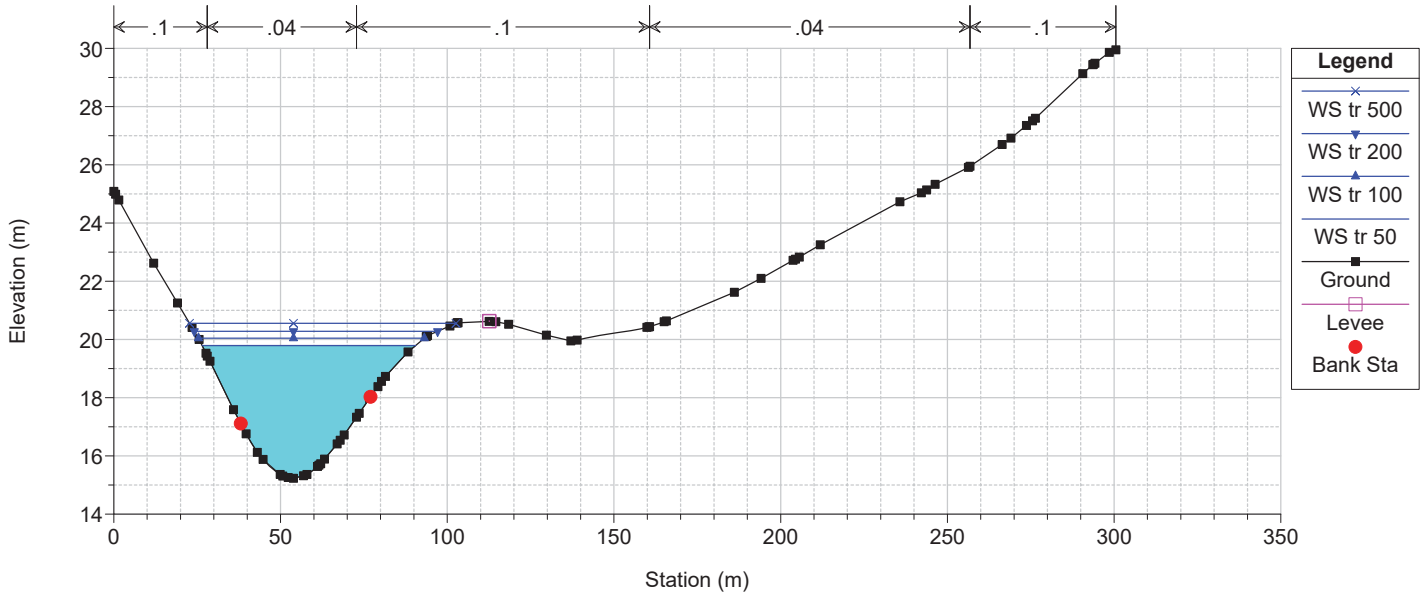
River = Riu Serra Reach = Asta 1-2-3 RS = 6088.909 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

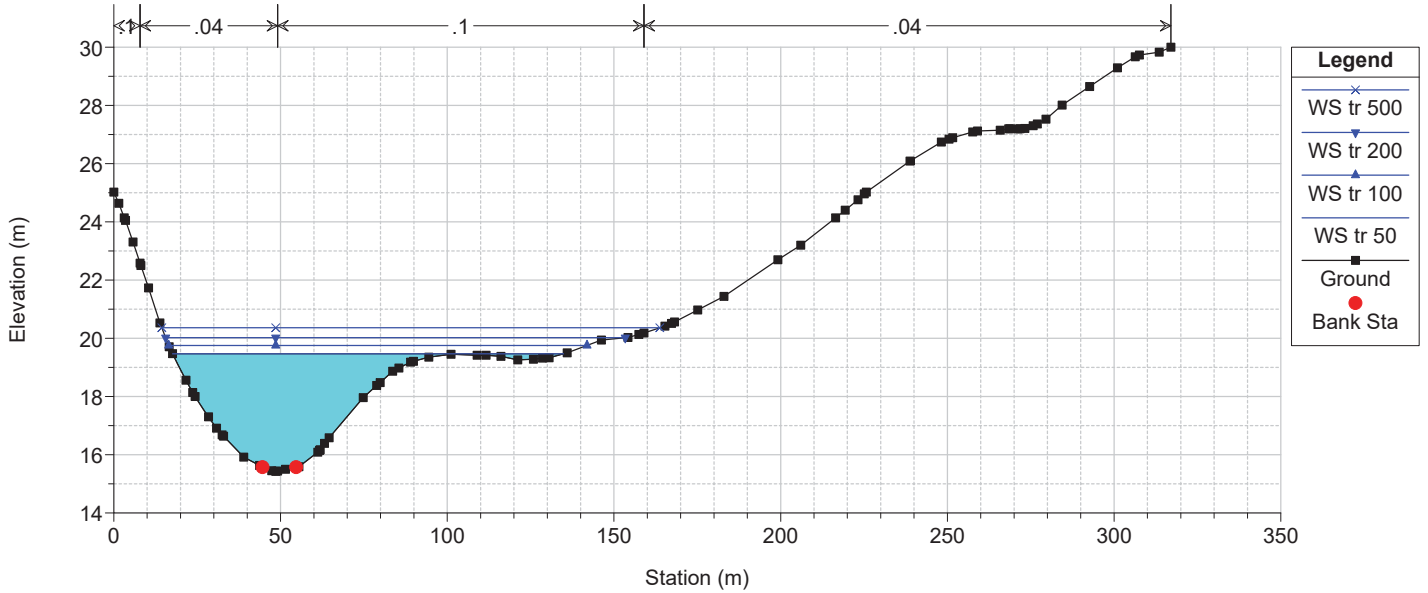
River = Riu Serra Reach = Asta 1-2-3 RS = 5979.484 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

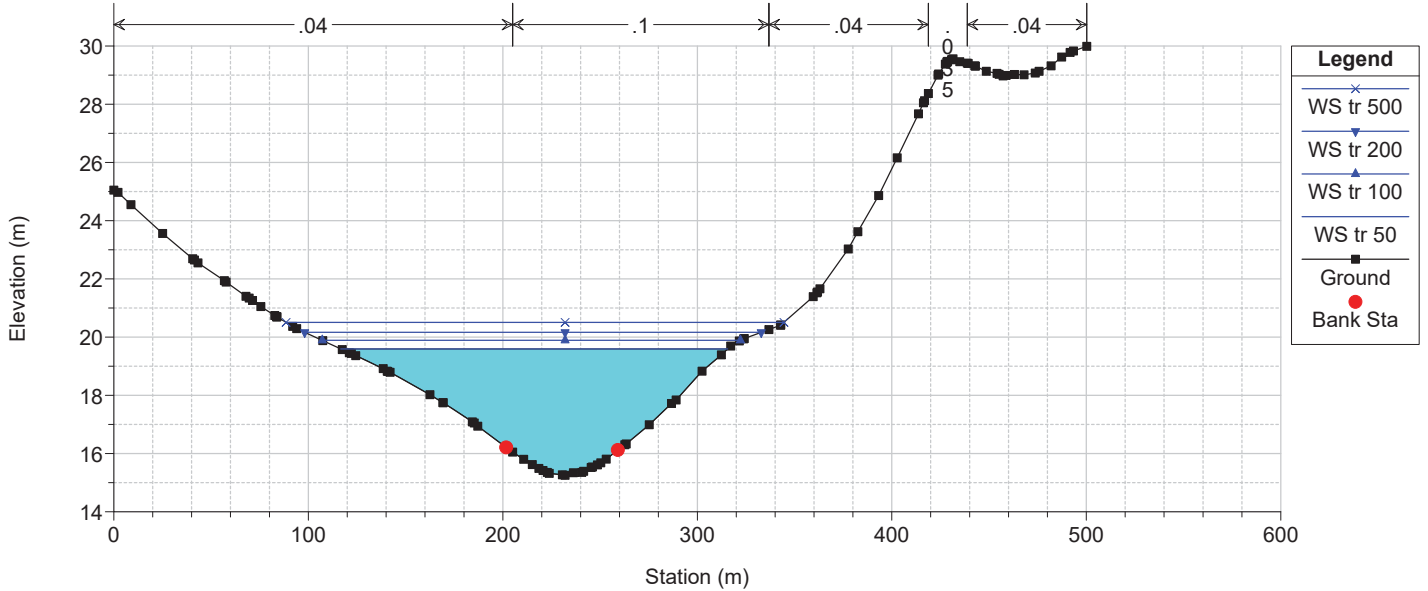
River = Riu Serra Reach = Asta 1-2-3 RS = 5908.972 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

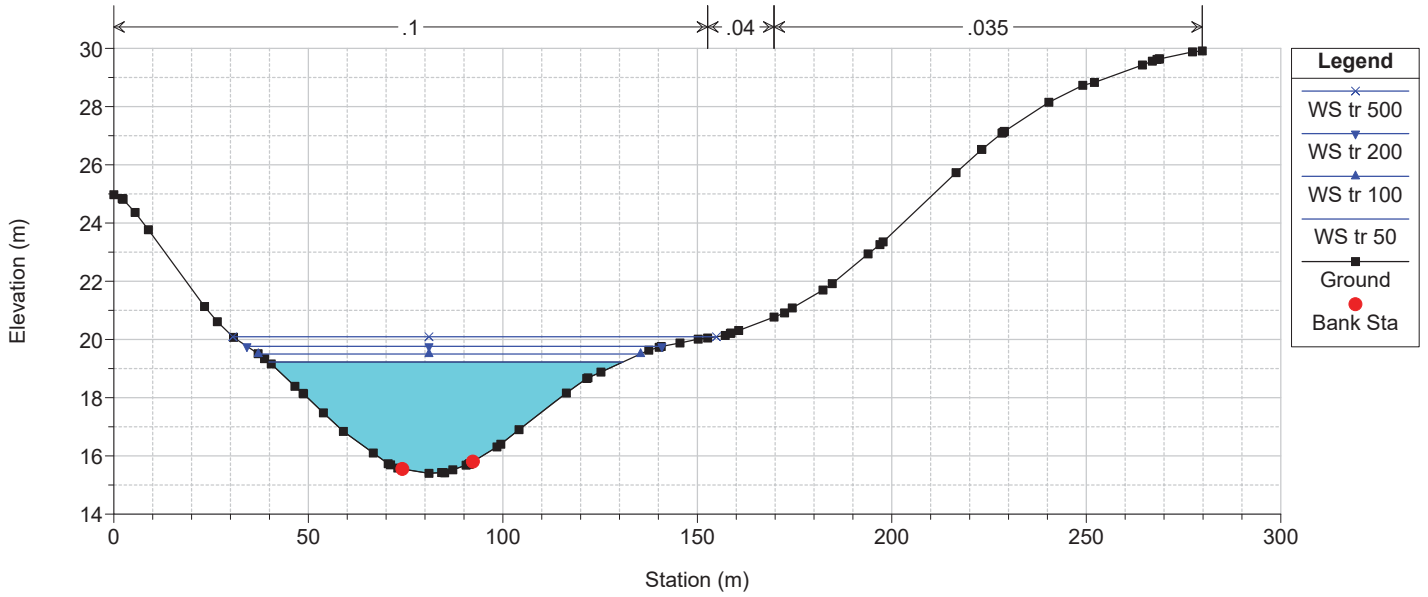
River = Riu Serra Reach = Asta 1-2-3 RS = 5839.298 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

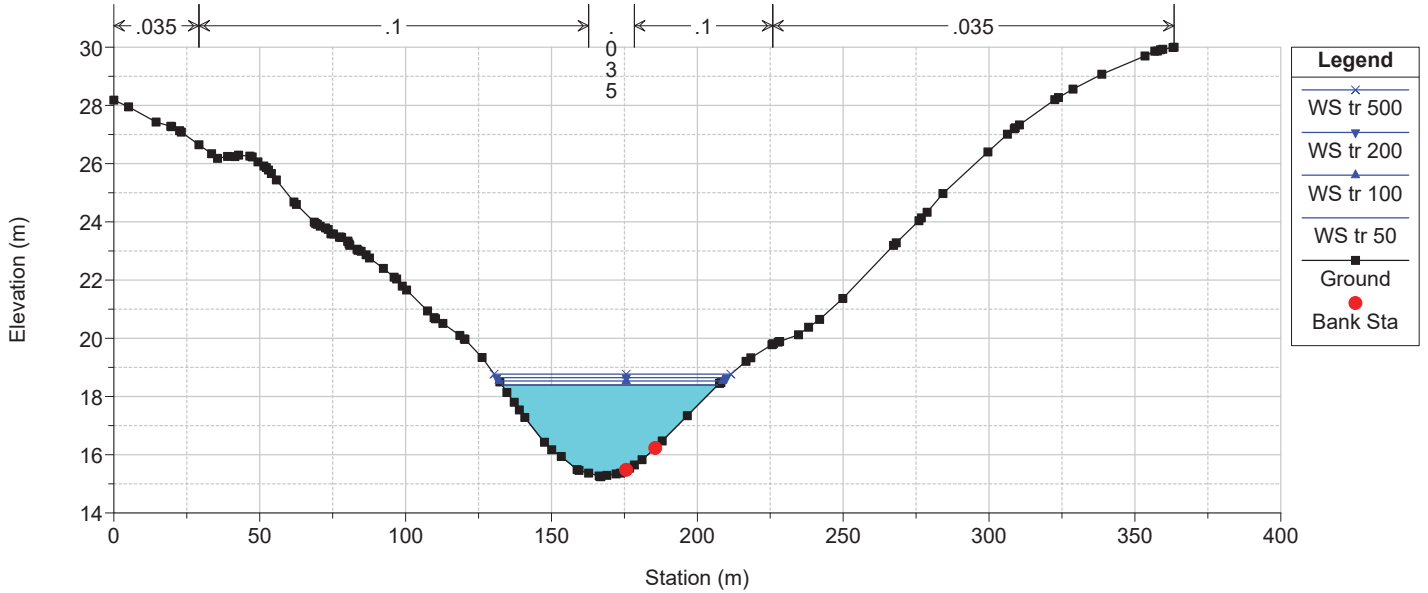
River = Riu Serra Reach = Asta 1-2-3 RS = 5747.938 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

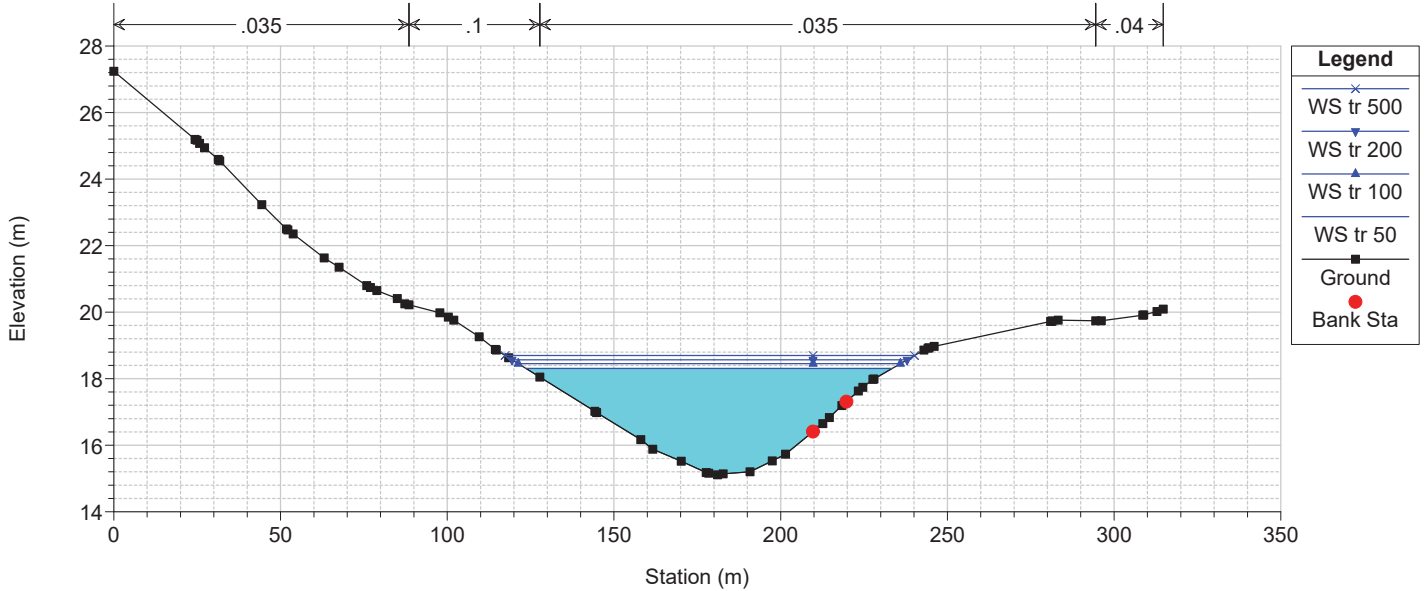
River = Riu Serra Reach = Asta 1-2-3 RS = 5672.271 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

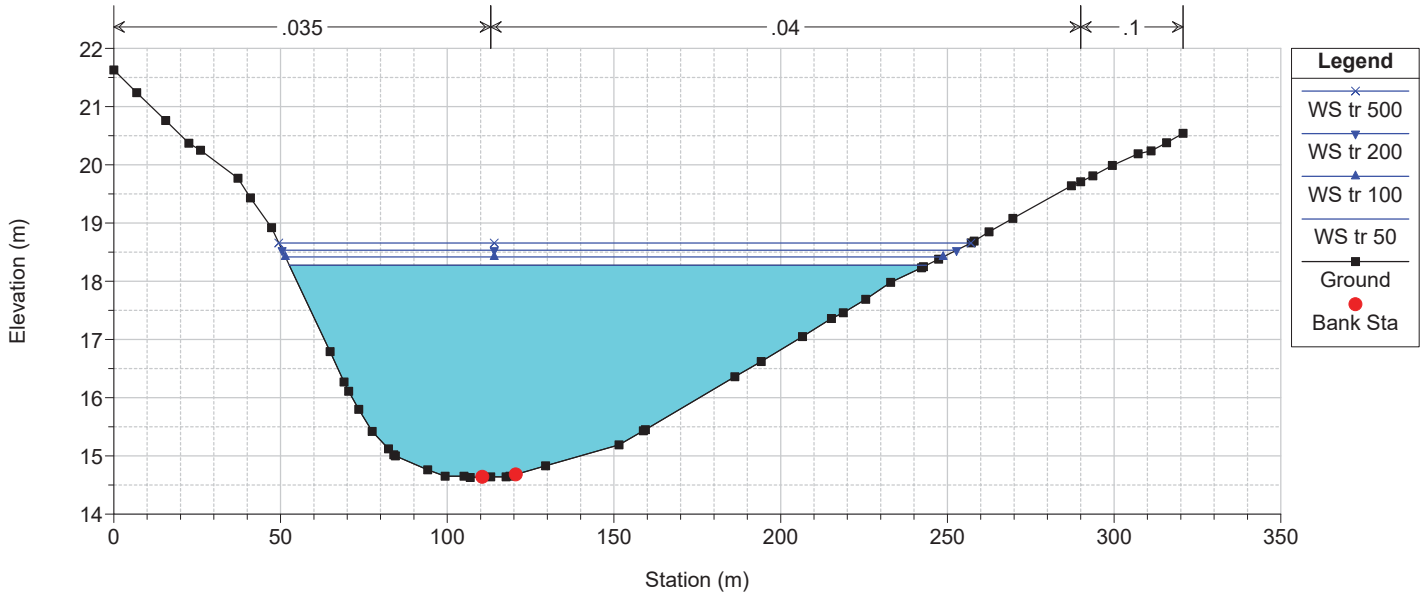
River = Riu Serra Reach = Asta 1-2-3 RS = 5585.854 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

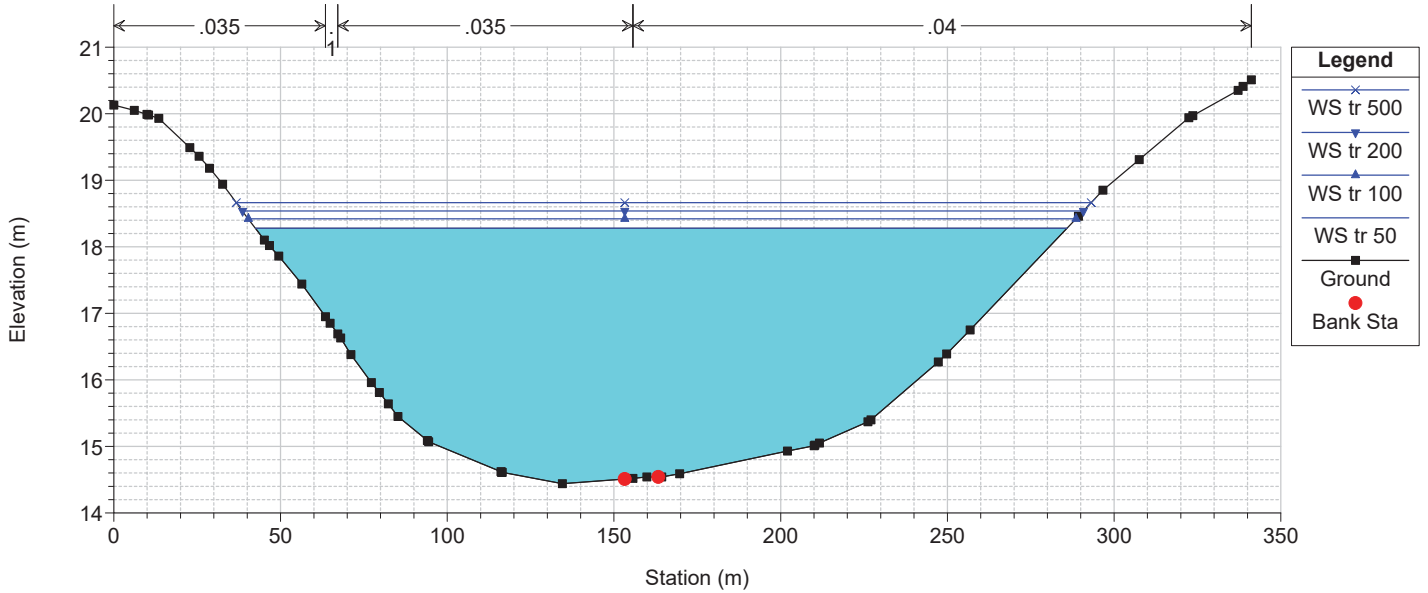
River = Riu Serra Reach = Asta 1-2-3 RS = 5385.028 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

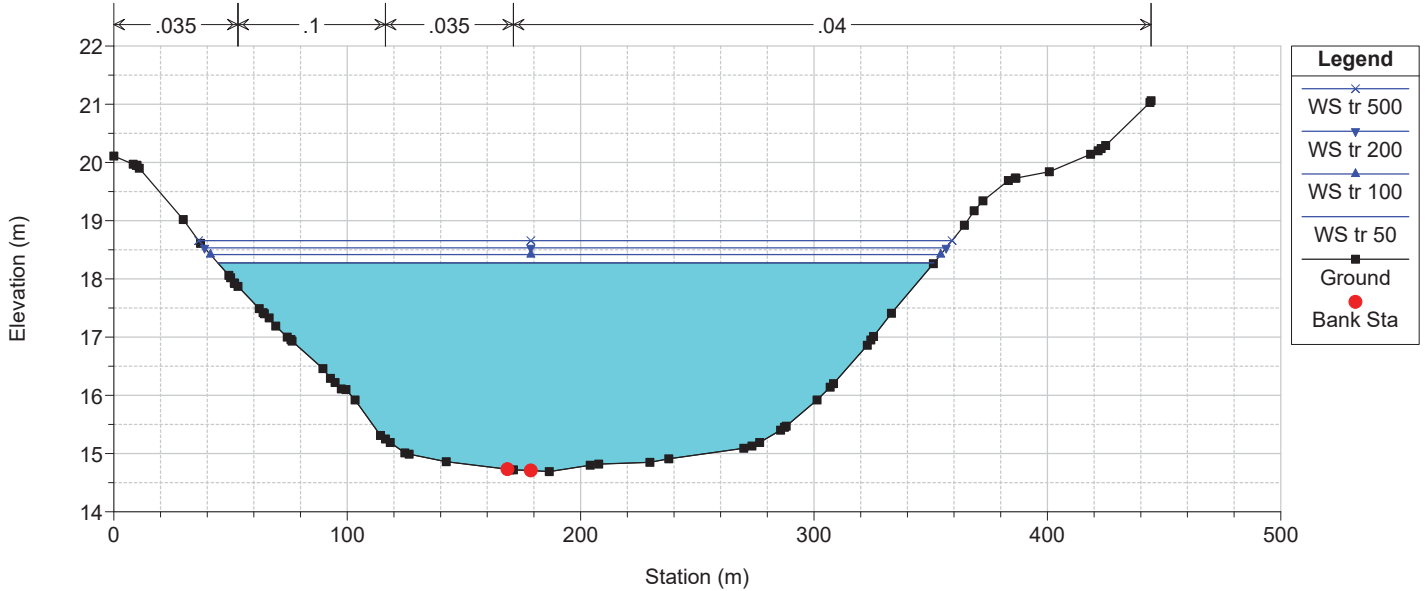
River = Riu Serra Reach = Asta 1-2-3 RS = 5310.947 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

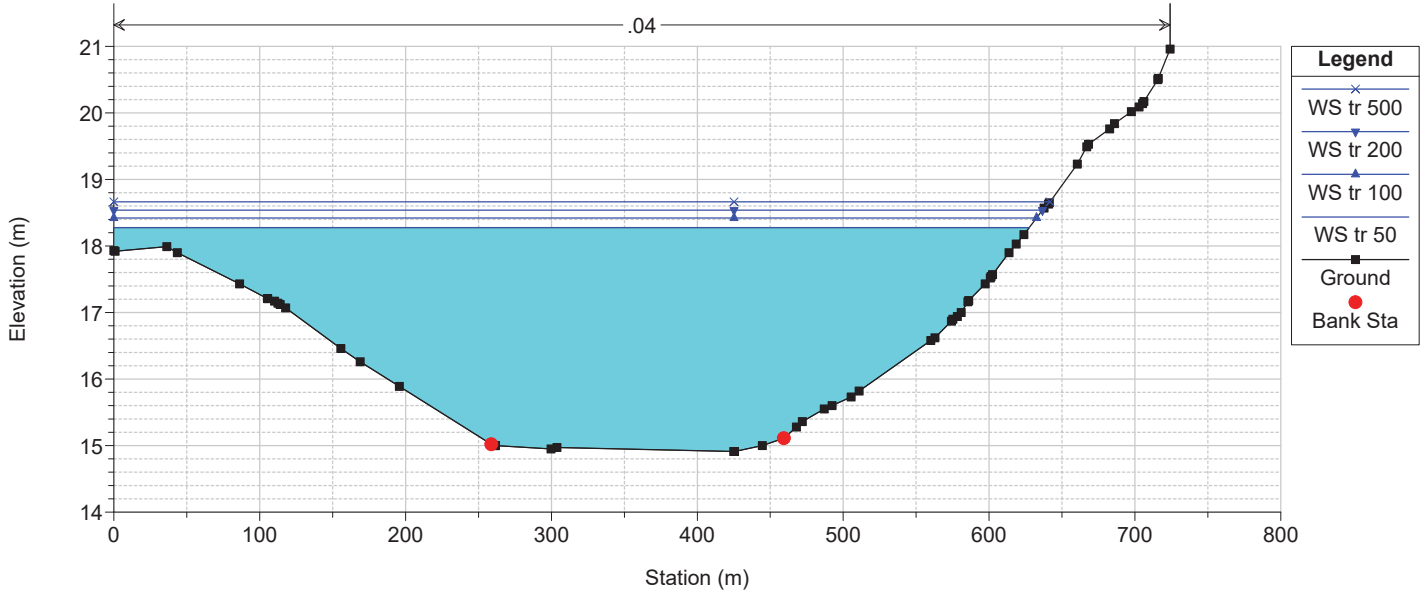
River = Riu Serra Reach = Asta 1-2-3 RS = 5231.284 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

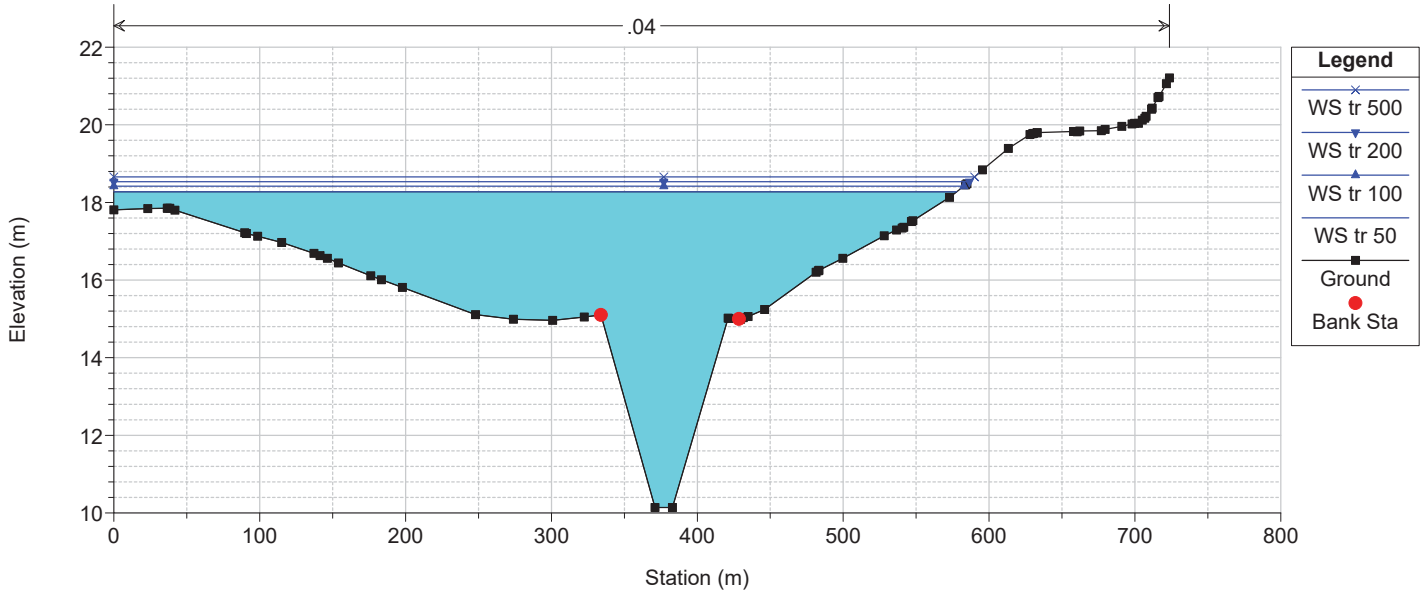
River = Riu Serra Reach = Asta 4 RS = 5148.516 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

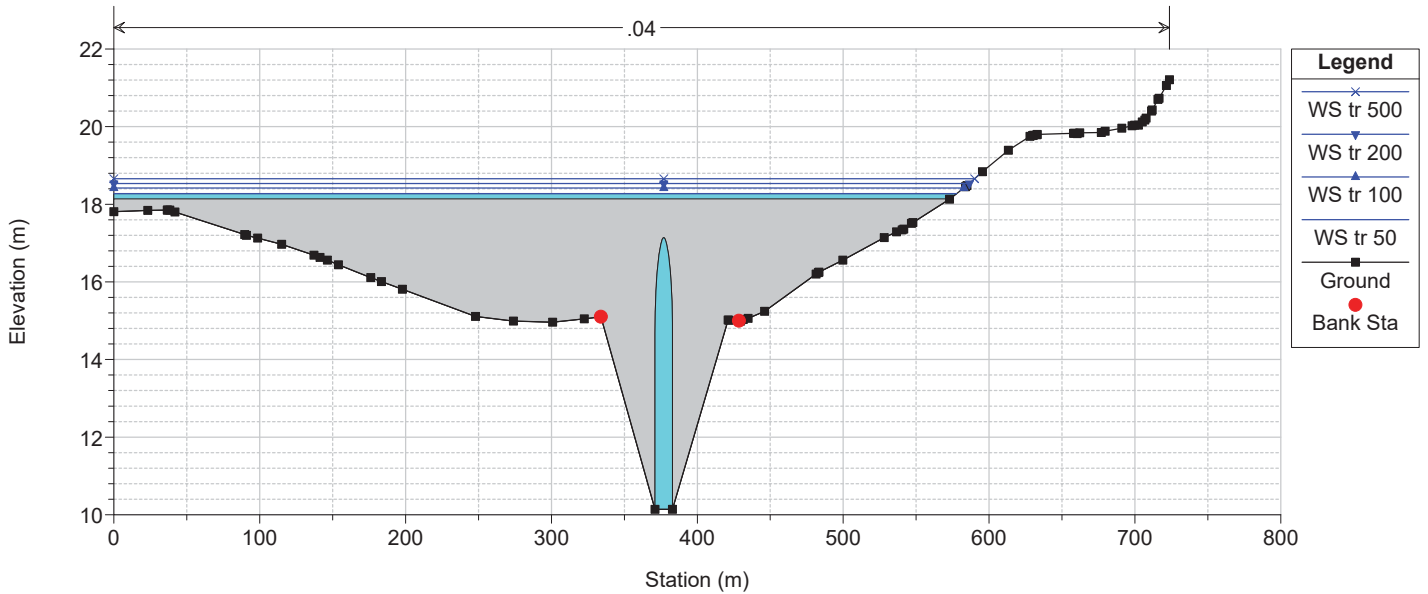
River = Riu Serra Reach = Asta 4 RS = 5113.233 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

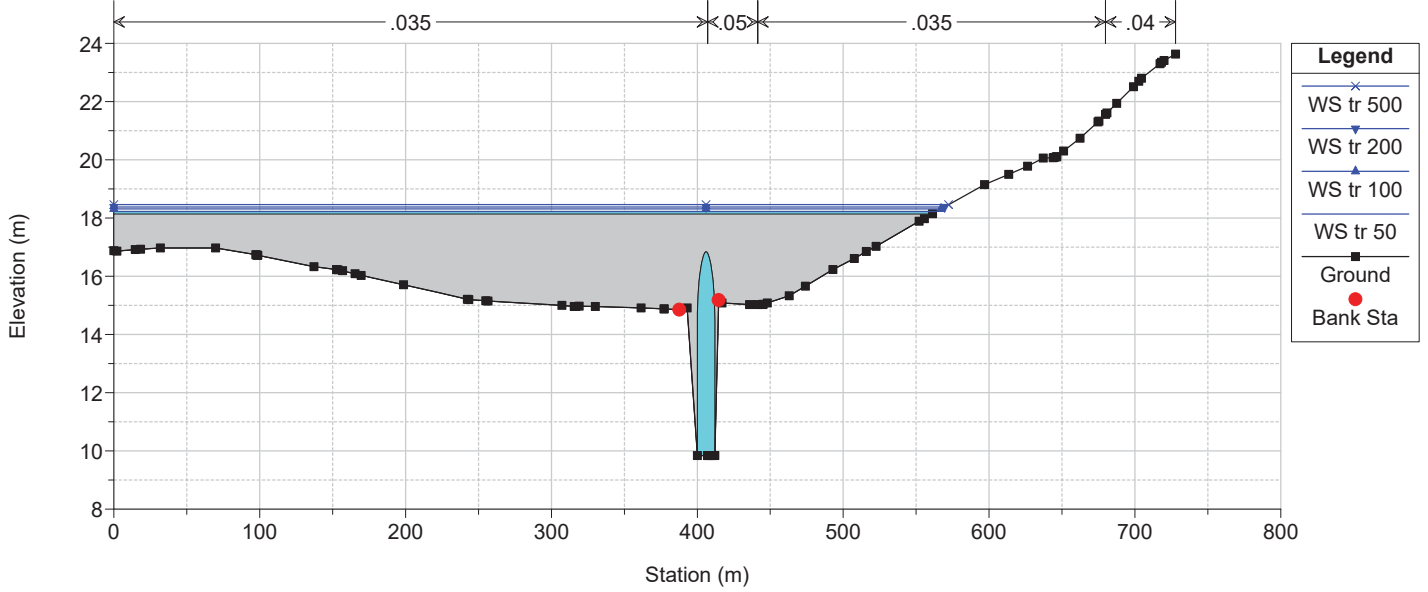
River = Riu Serra Reach = Asta 4 RS = 5089.435 Culv COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

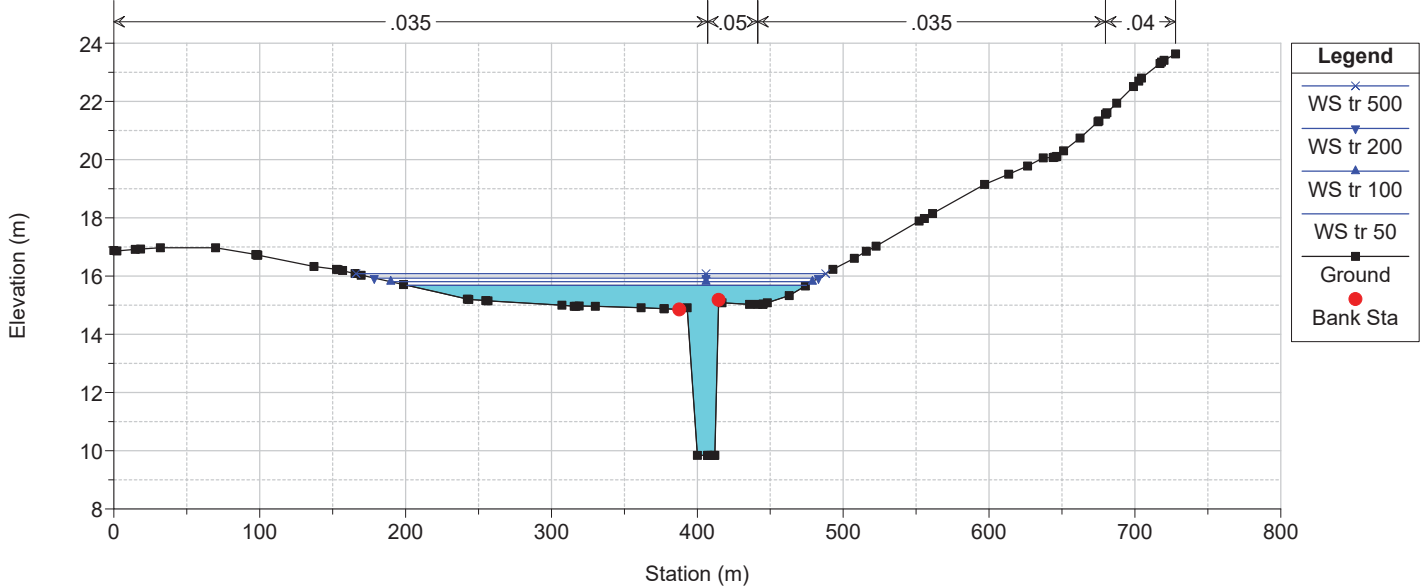
River = Riu Serra Reach = Asta 4 RS = 5089.435 Culv COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

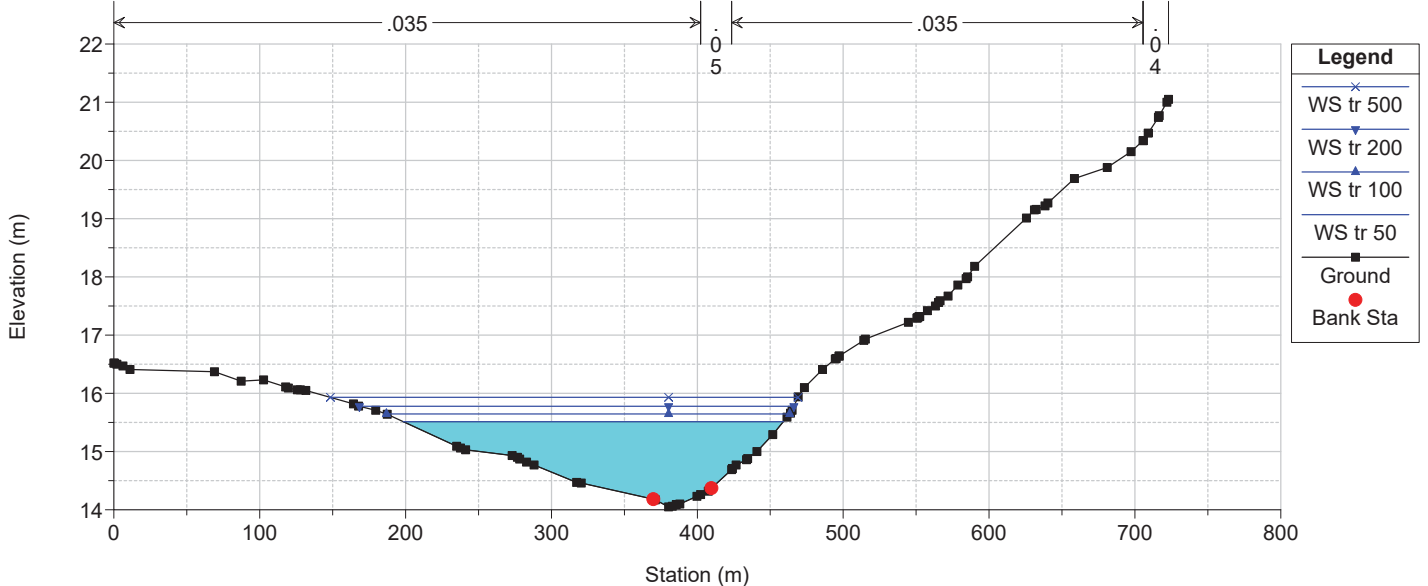
River = Riu Serra Reach = Asta 4 RS = 5066.048 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

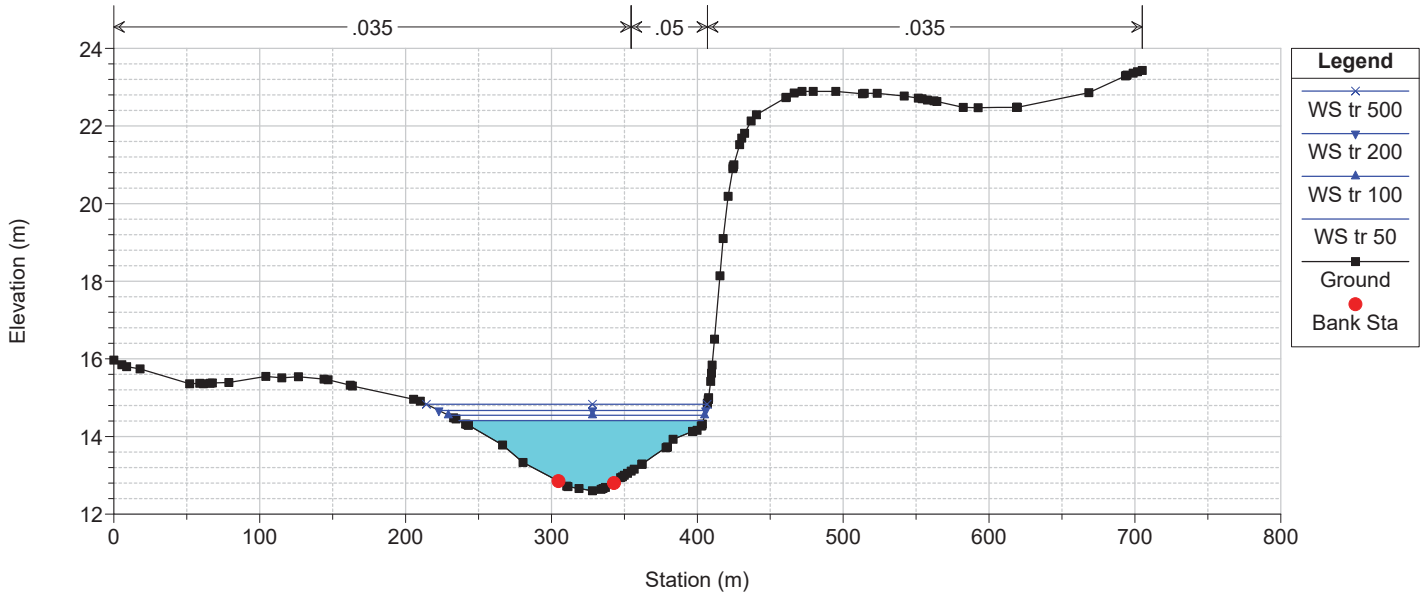
River = Riu Serra Reach = Asta 4 RS = 5021.396 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

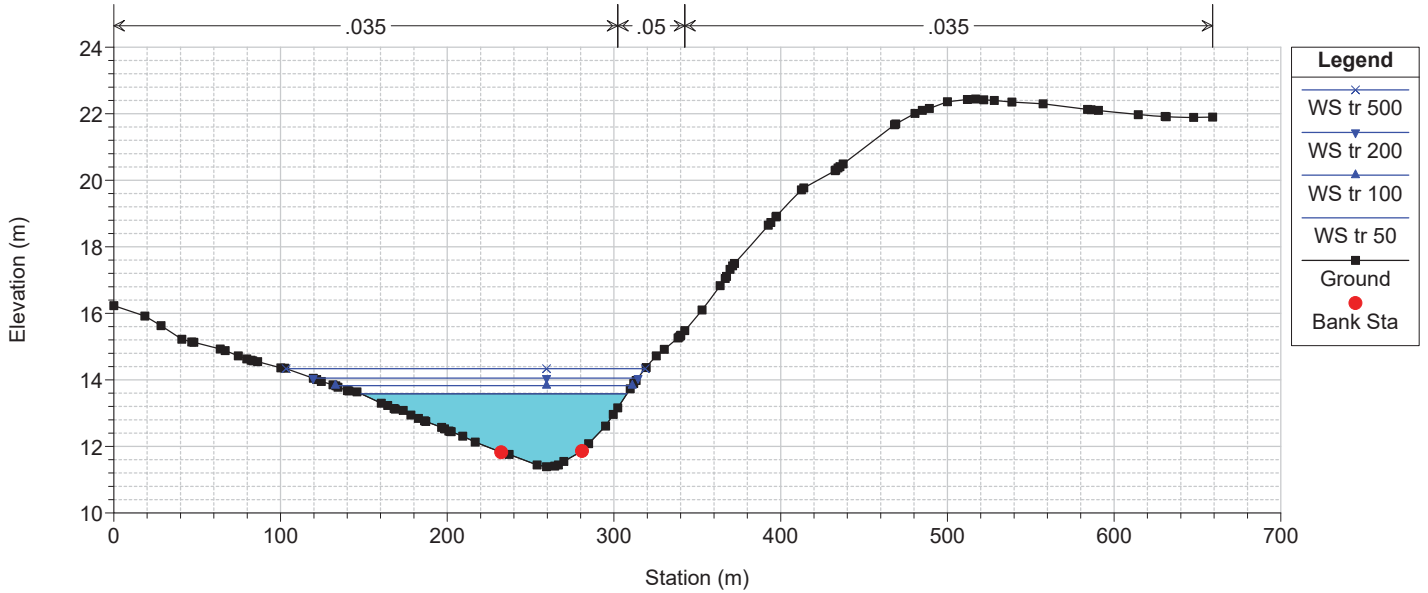
River = Riu Serra Reach = Asta 4 RS = 4916.999 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

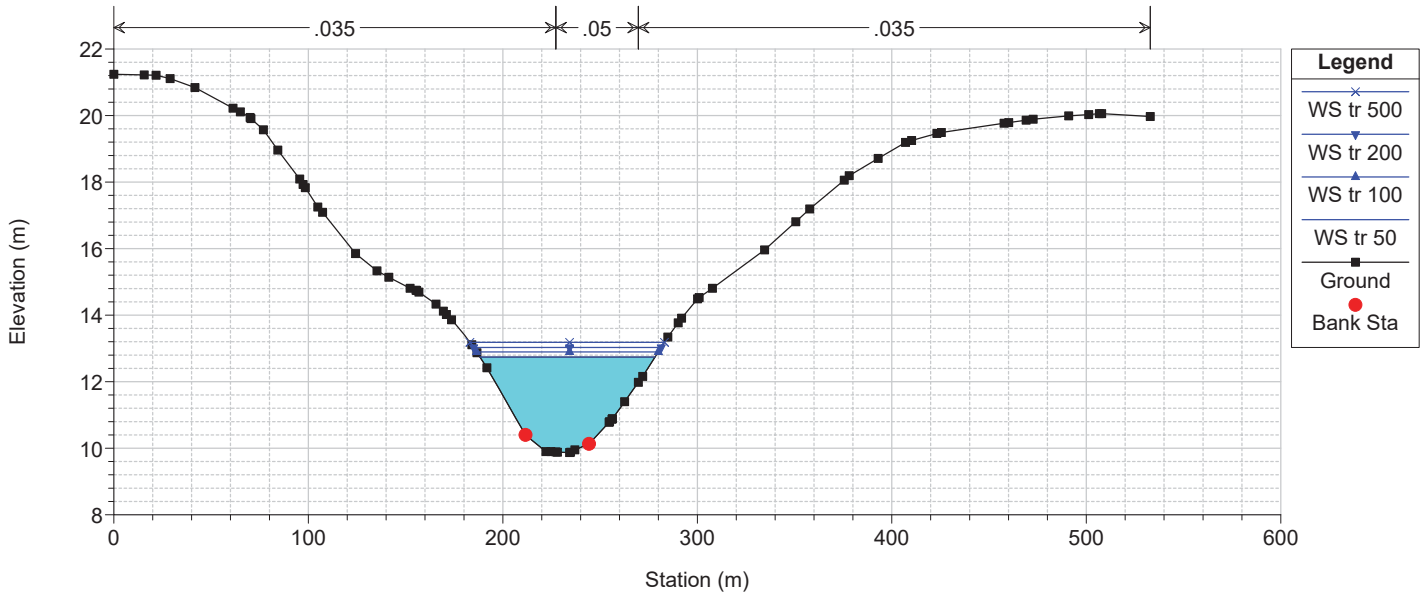
River = Riu Serra Reach = Asta 4 RS = 4821.104 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

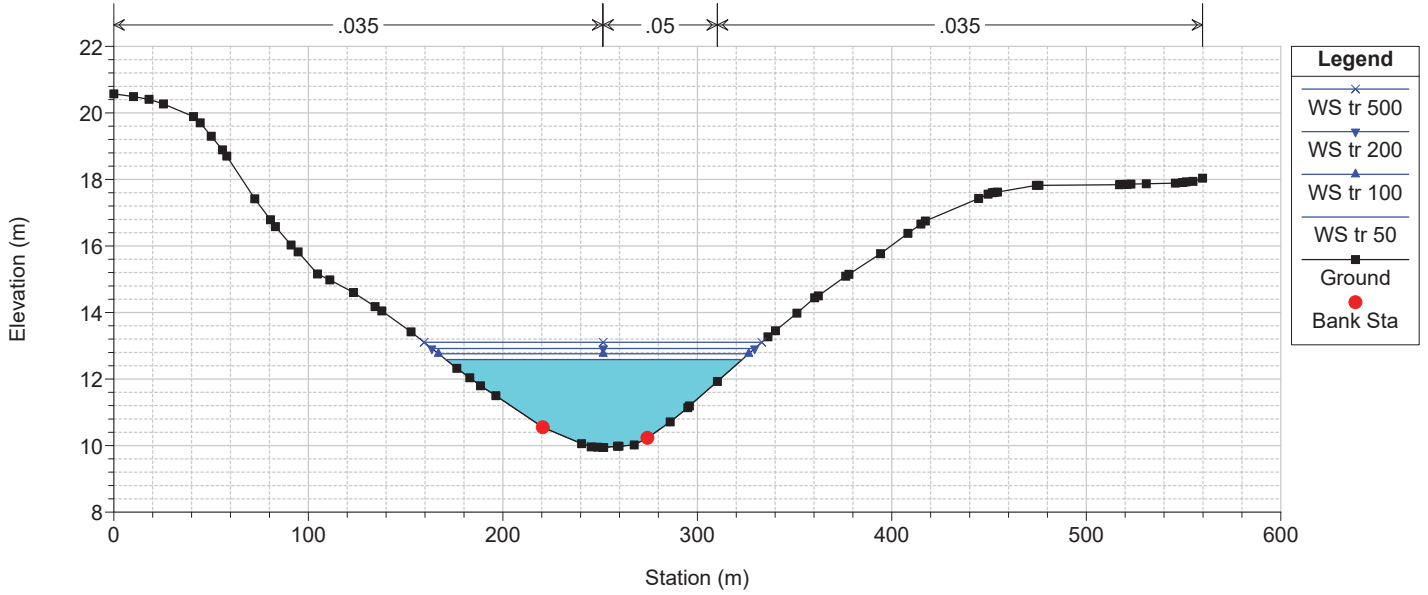
River = Riu Serra Reach = Asta 4 RS = 4684.26 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

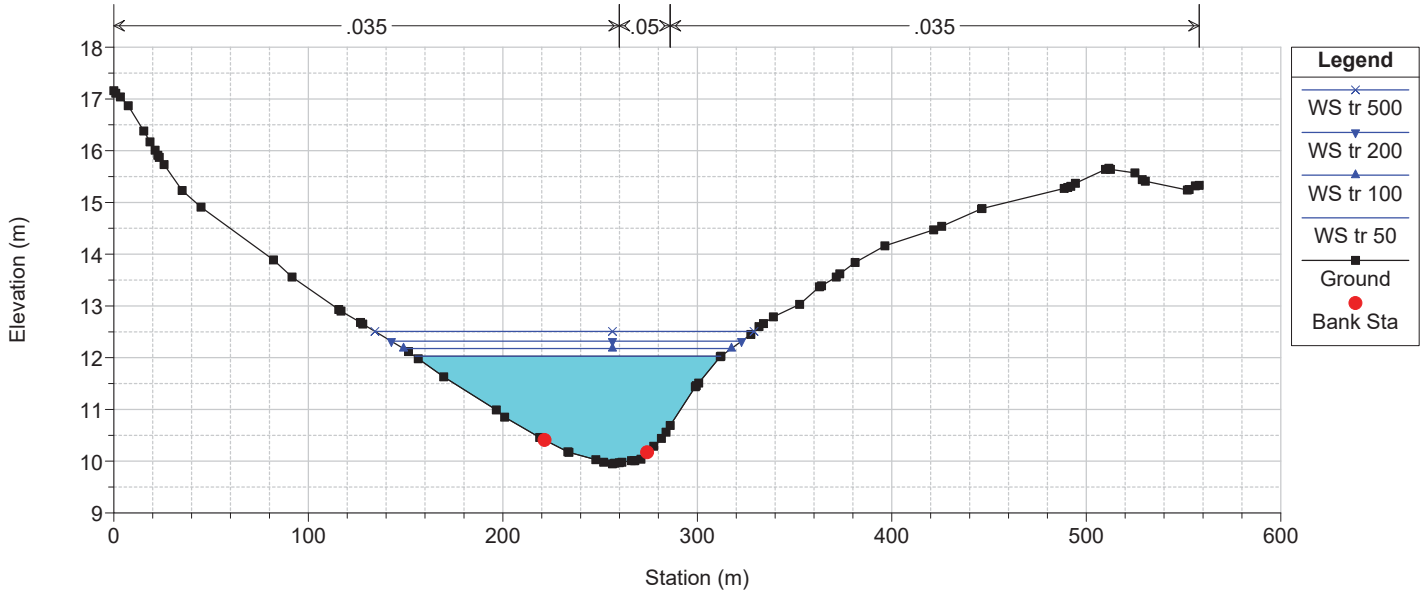
River = Riu Serra Reach = Asta 4 RS = 4594.056 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

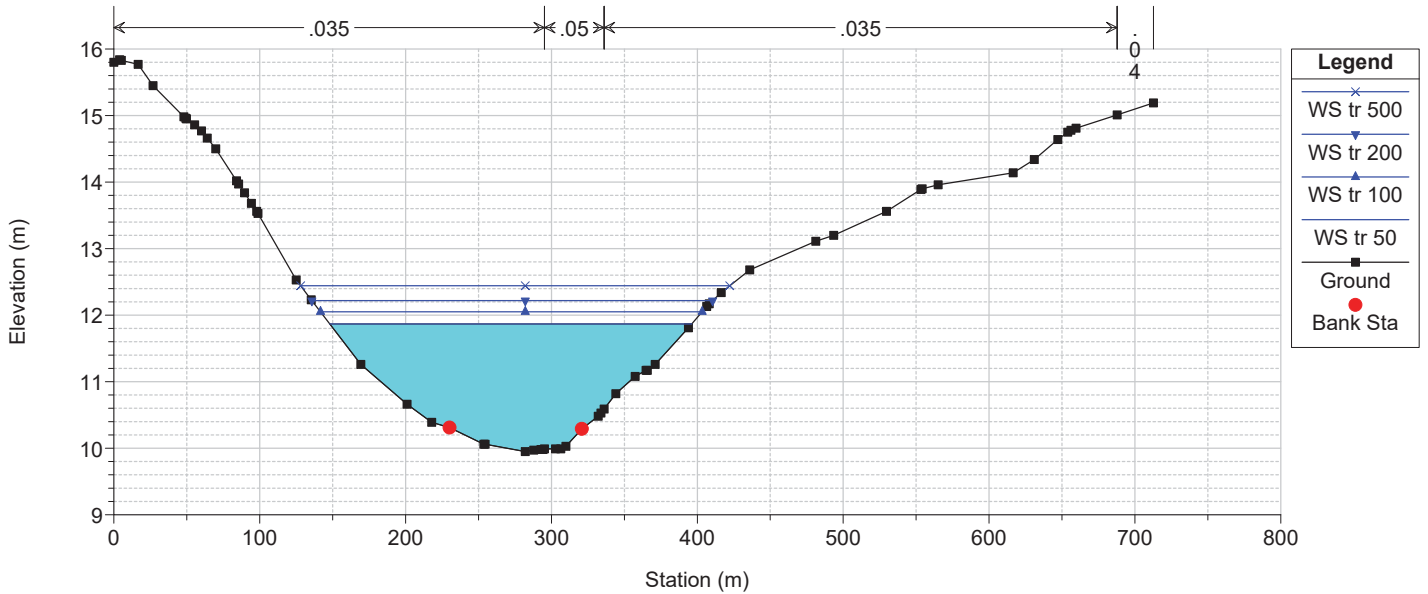
River = Riu Serra Reach = Asta 4 RS = 4485.467 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

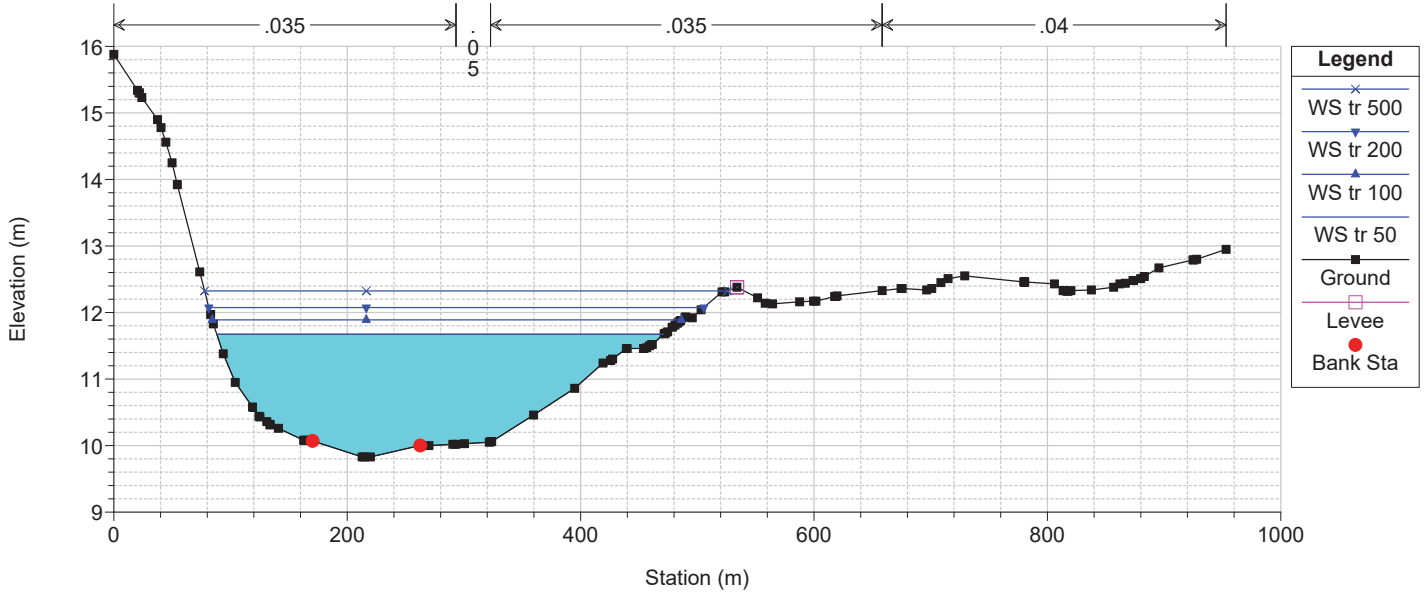
River = Riu Serra Reach = Asta 4 RS = 4395.042 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

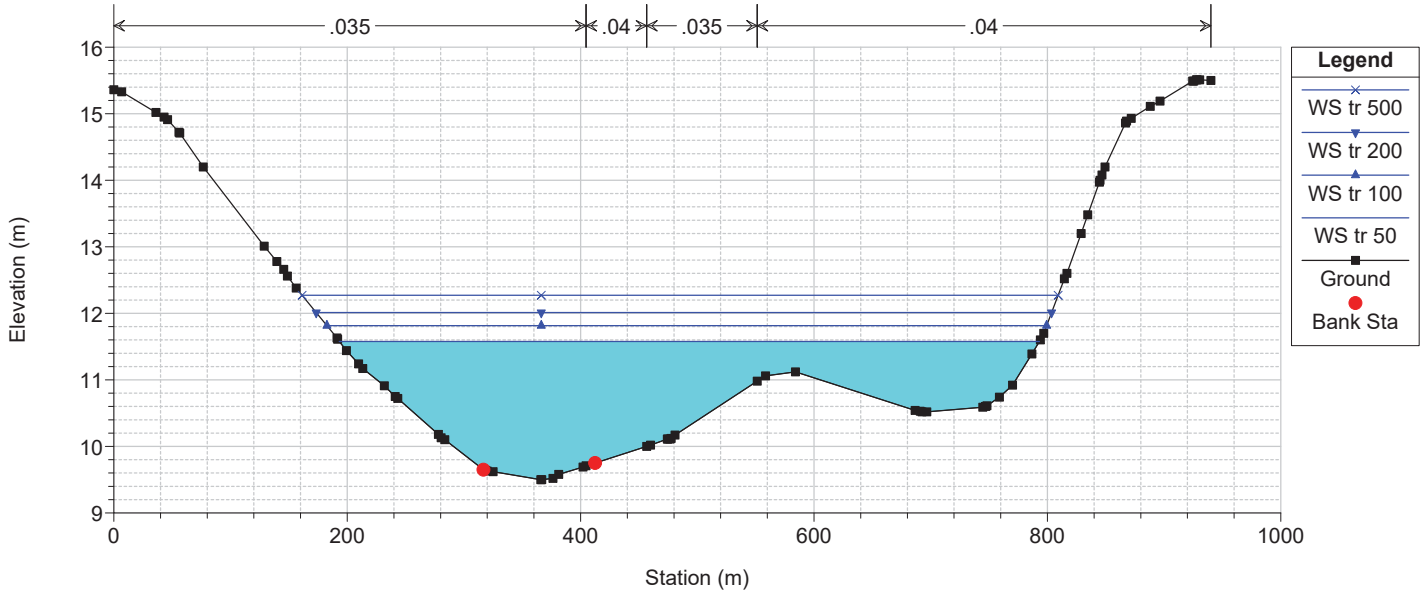
River = Riu Serra Reach = Asta 4 RS = 4212.491 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

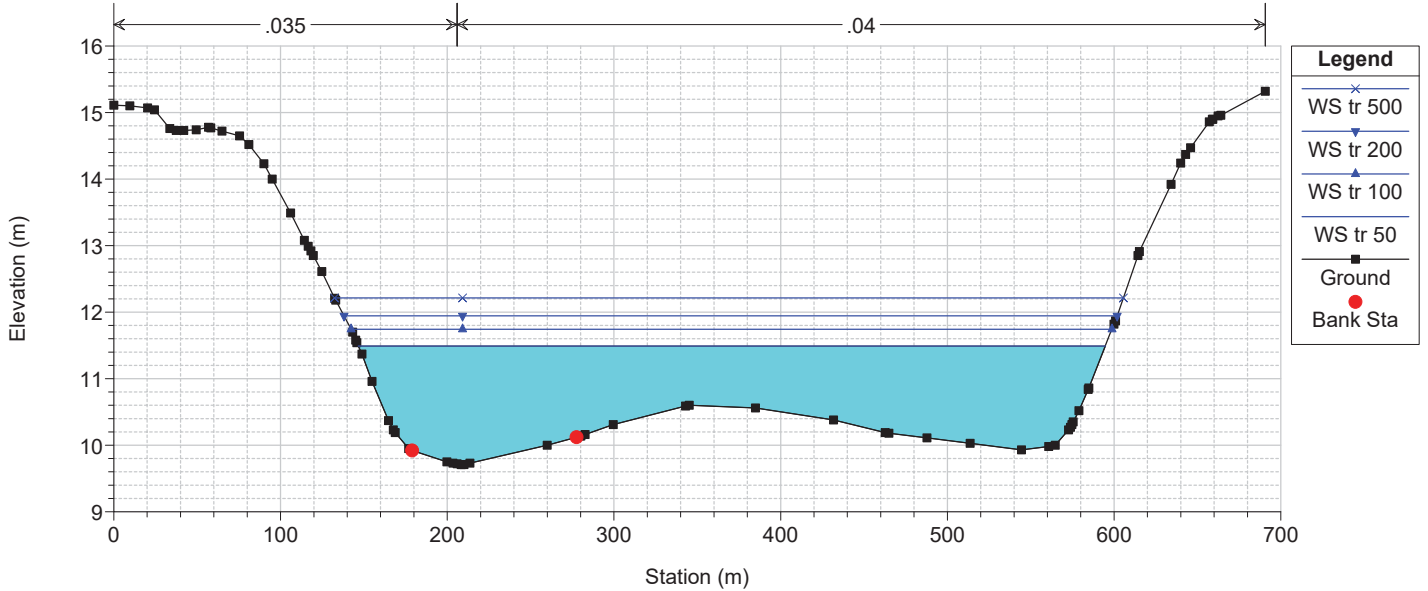
River = Riu Serra Reach = Asta 4 RS = 4030.342 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

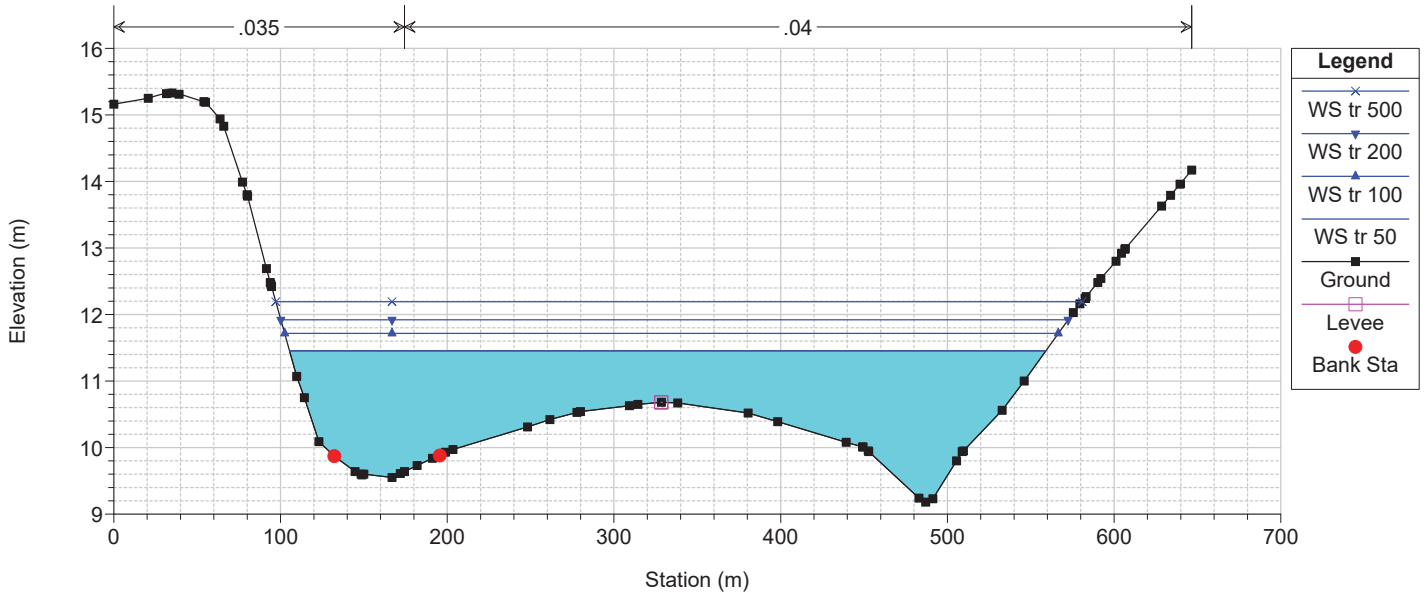
River = Riu Serra Reach = Asta 4 RS = 3904.306 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

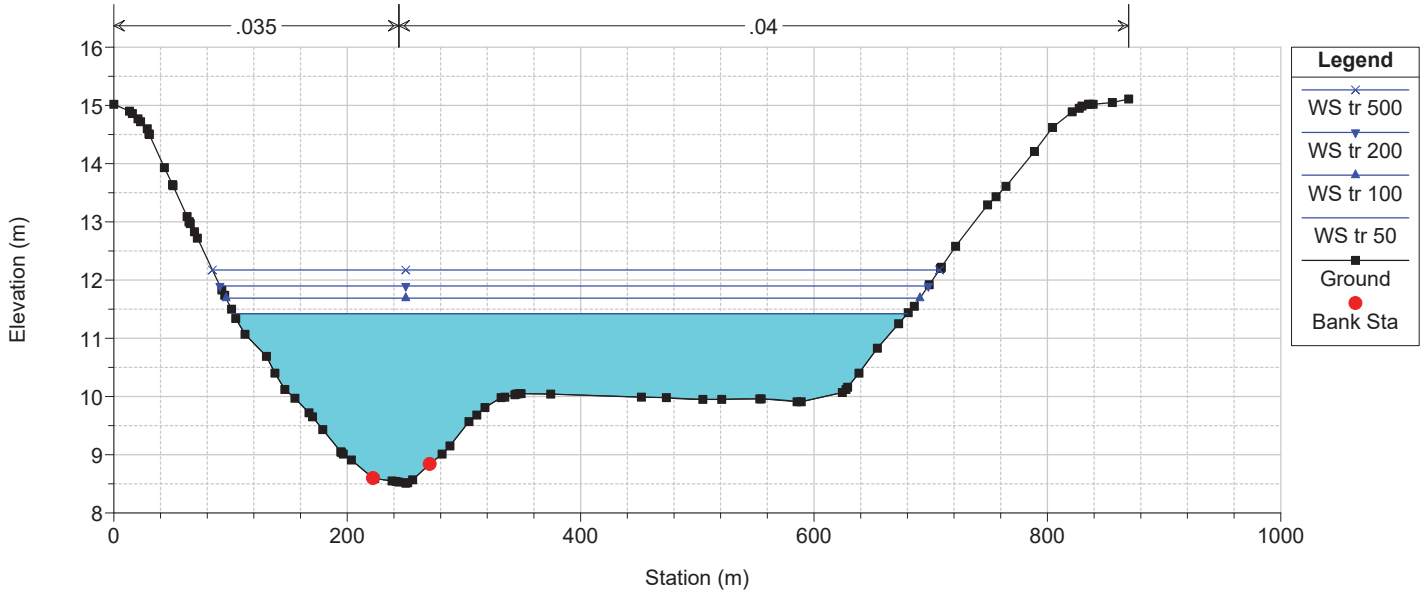
River = Riu Serra Reach = Asta 4 RS = 3859.866 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

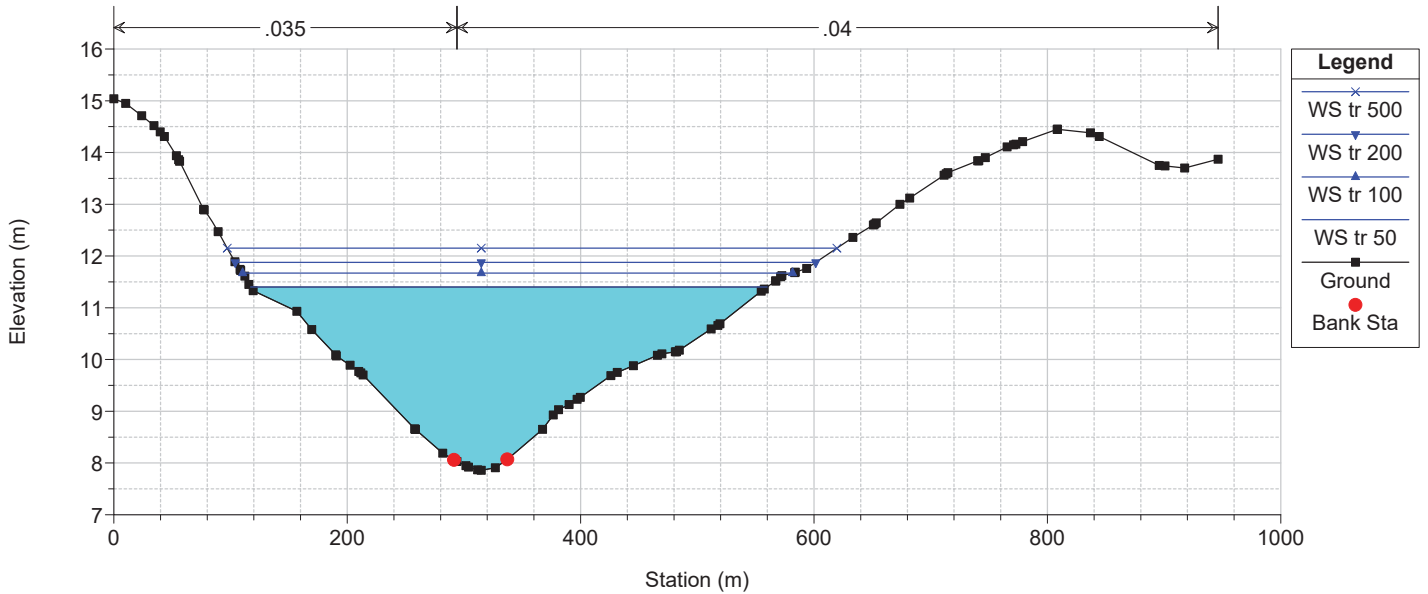
River = Riu Serra Reach = Asta 4 RS = 3727.796 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

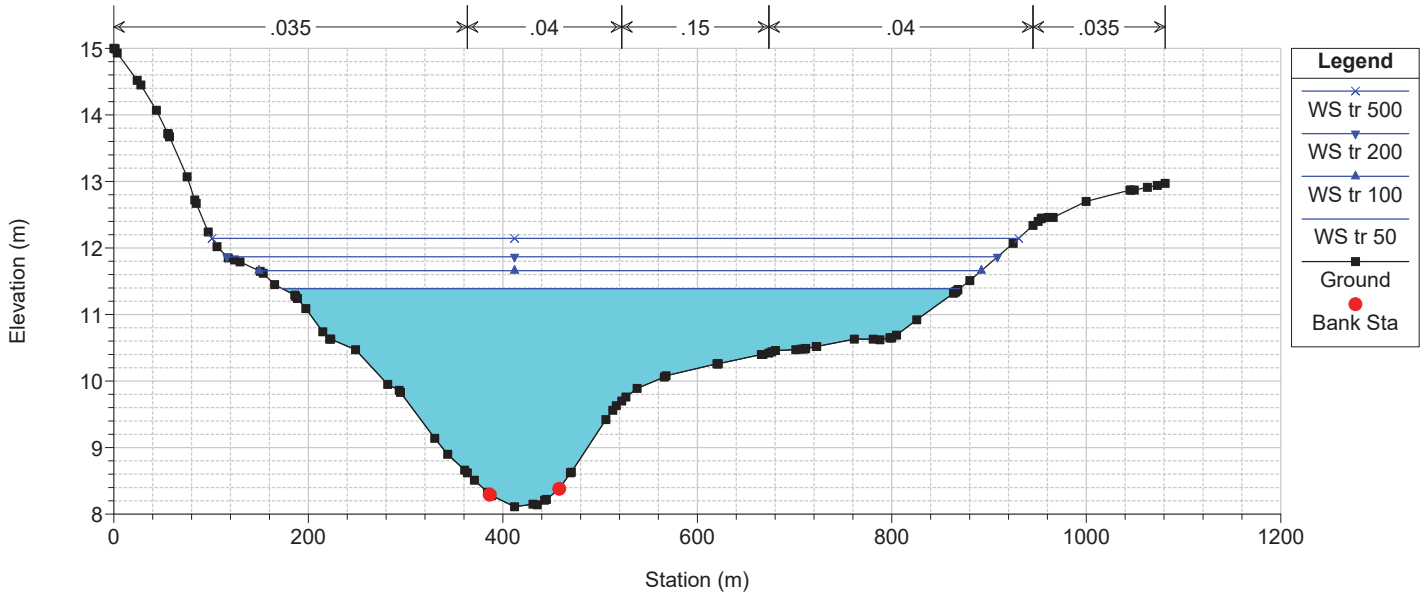
River = Riu Serra Reach = Asta 4 RS = 3662.587 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

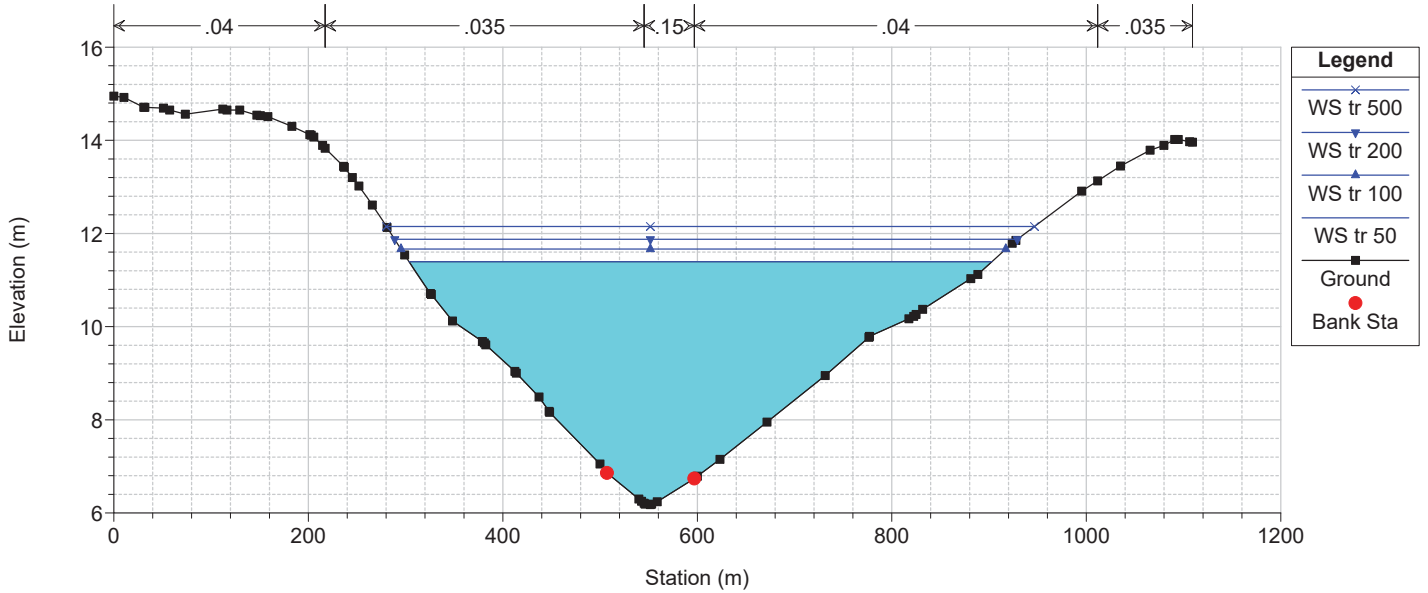
River = Riu Serra Reach = Asta 4 RS = 3580.977 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

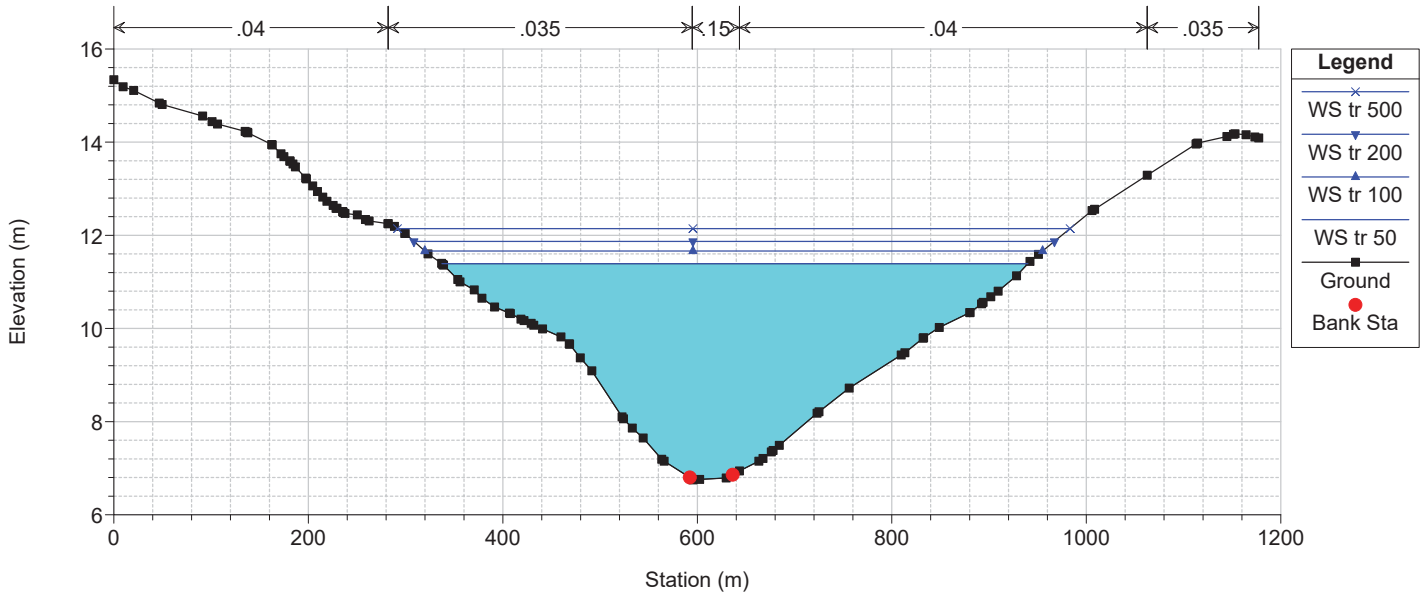
River = Riu Serra Reach = Asta 5 RS = 3290.571 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

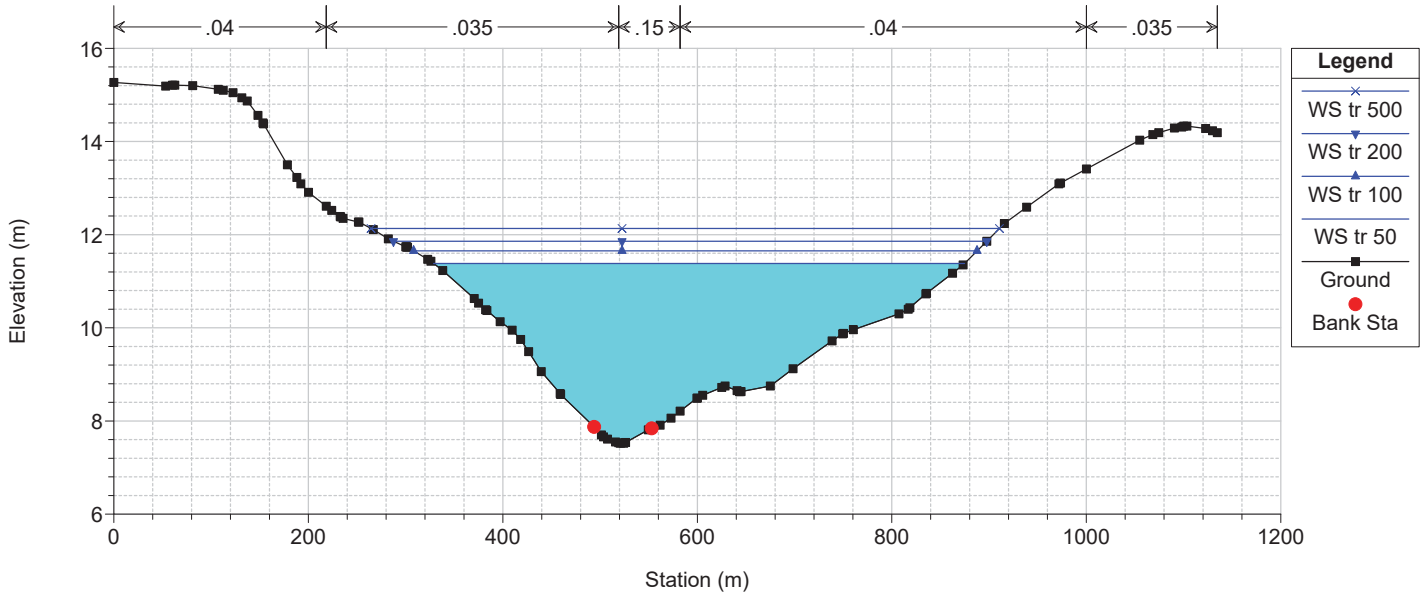
River = Riu Serra Reach = Asta 5 RS = 3250.189 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

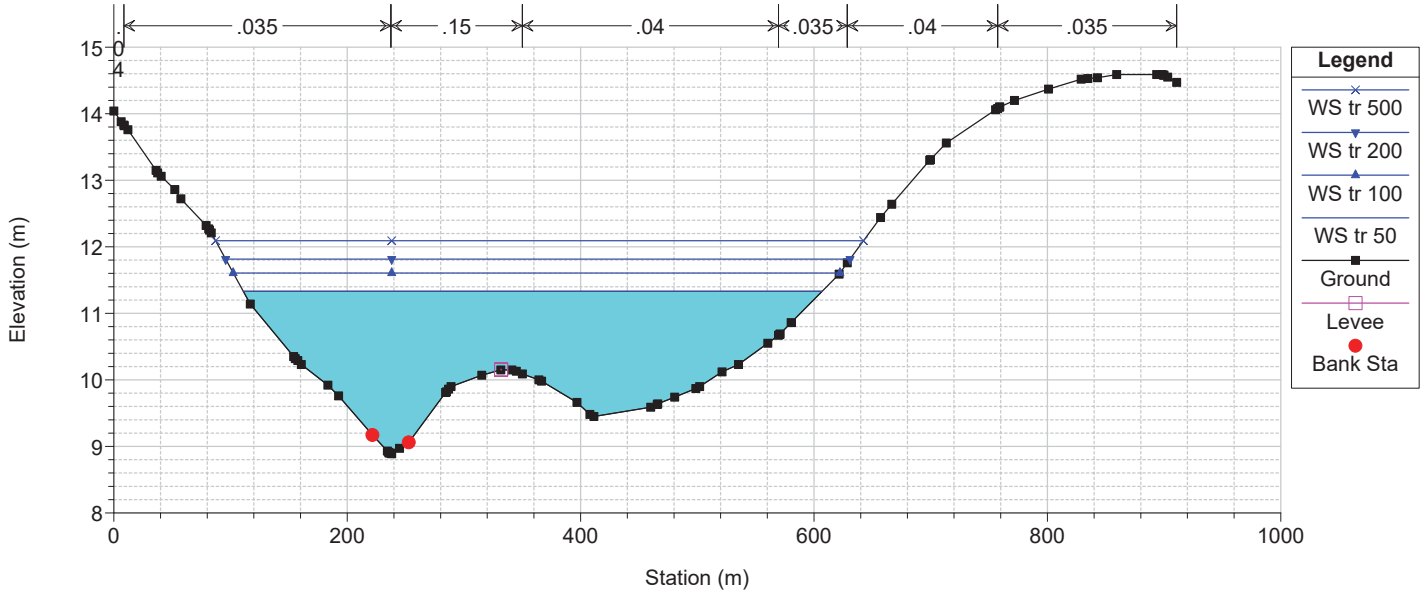
River = Riu Serra Reach = Asta 5 RS = 3195.17 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

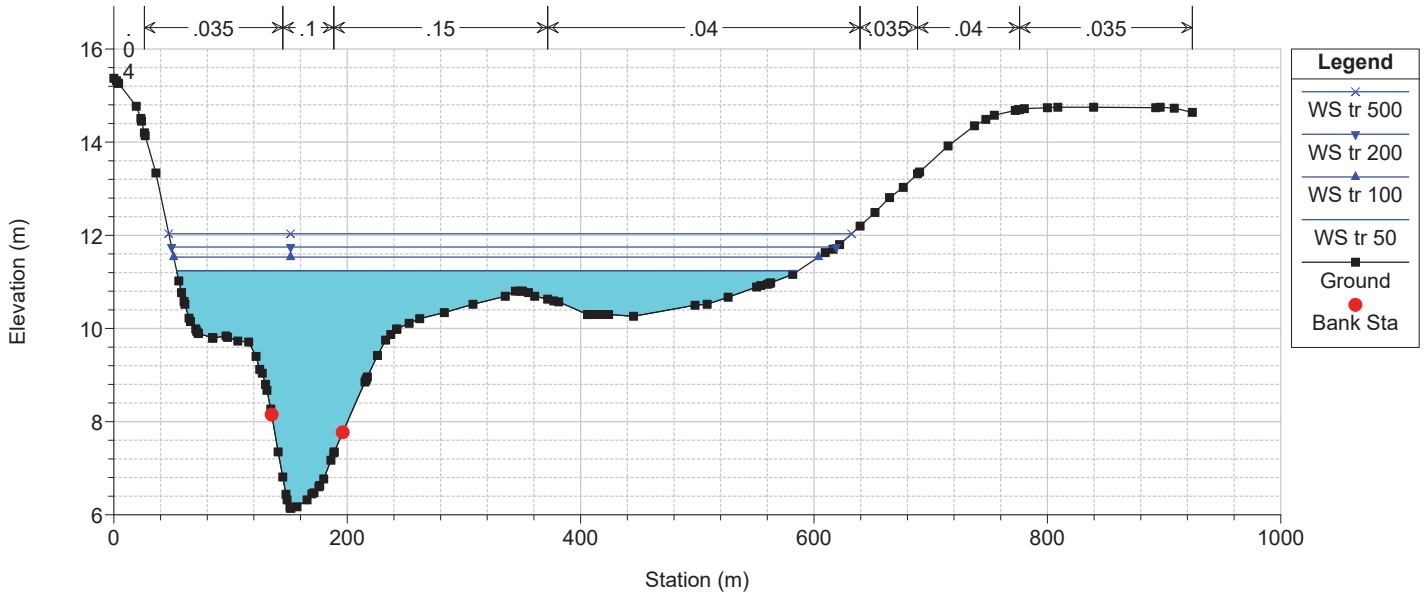
River = Riu Serra Reach = Asta 5 RS = 3098.598 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

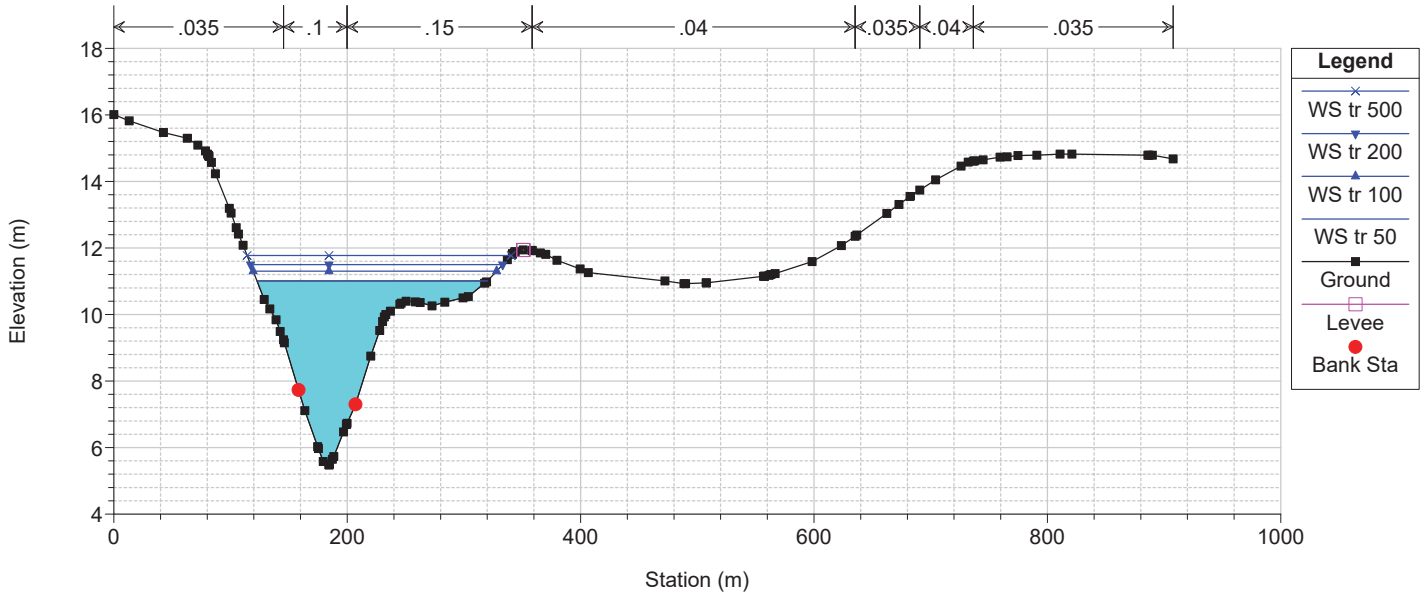
River = Riu Serra Reach = Asta 5 RS = 2996.495 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

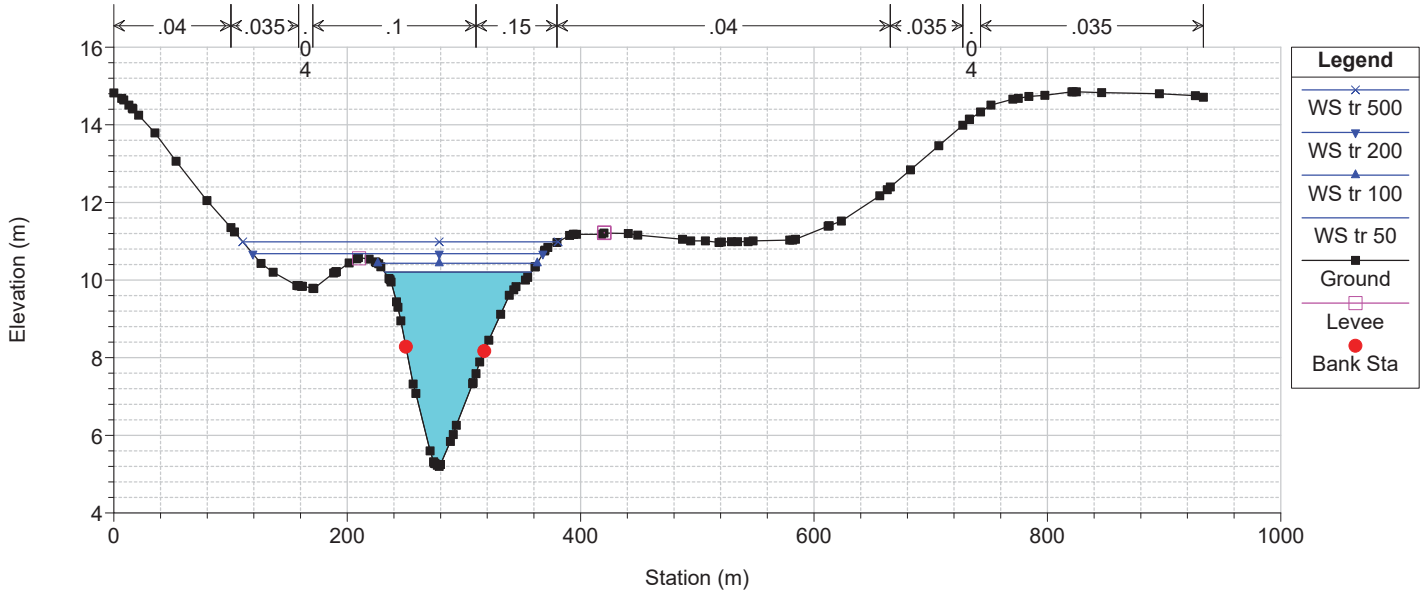
River = Riu Serra Reach = Asta 5 RS = 2913.548 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

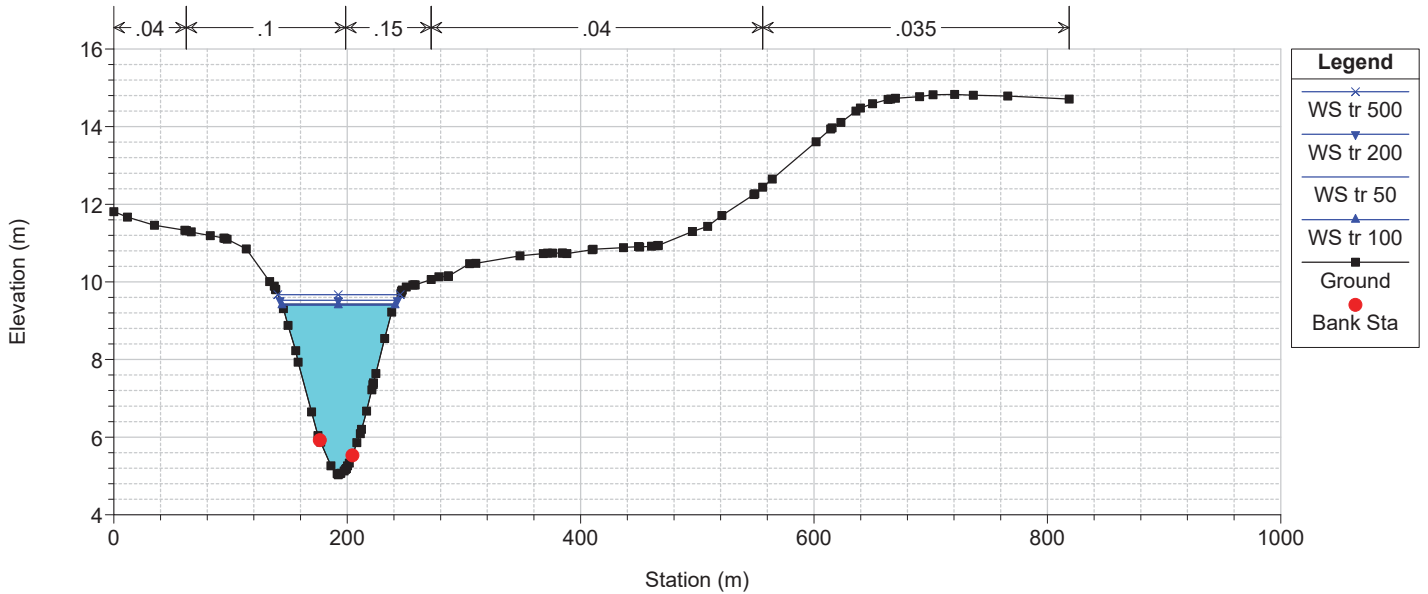
River = Riu Serra Reach = Asta 5 RS = 2773.232 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

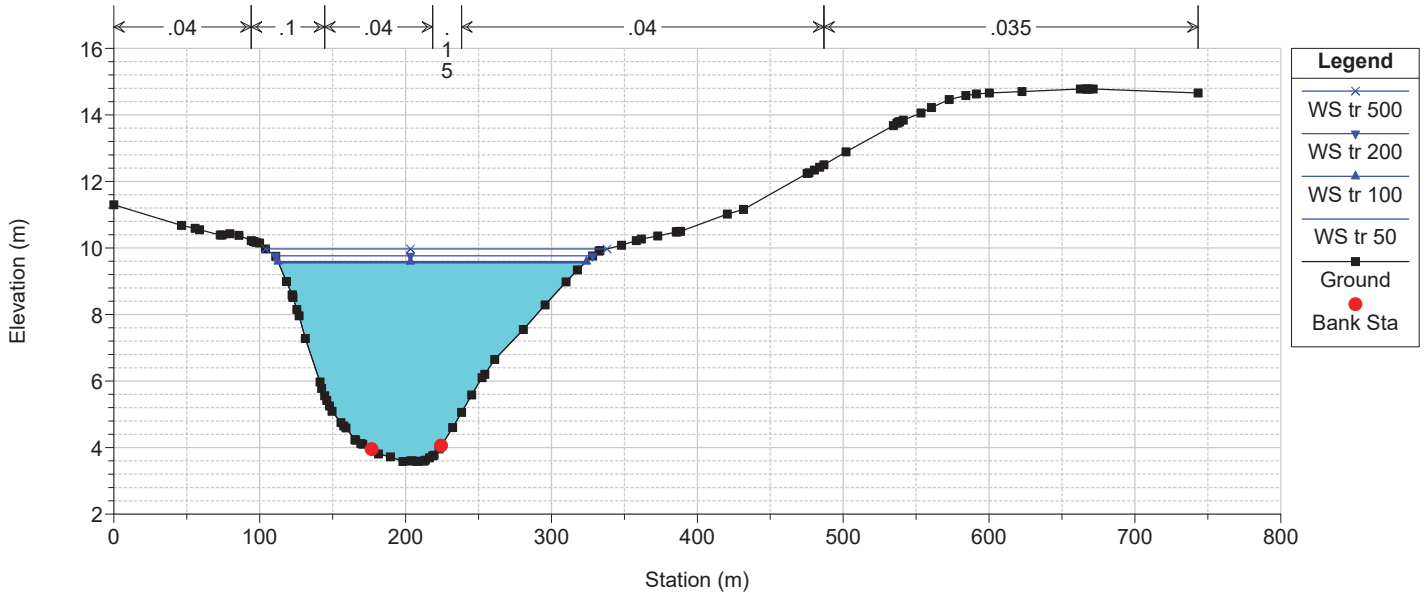
River = Riu Serra Reach = Asta 5 RS = 2703.688 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

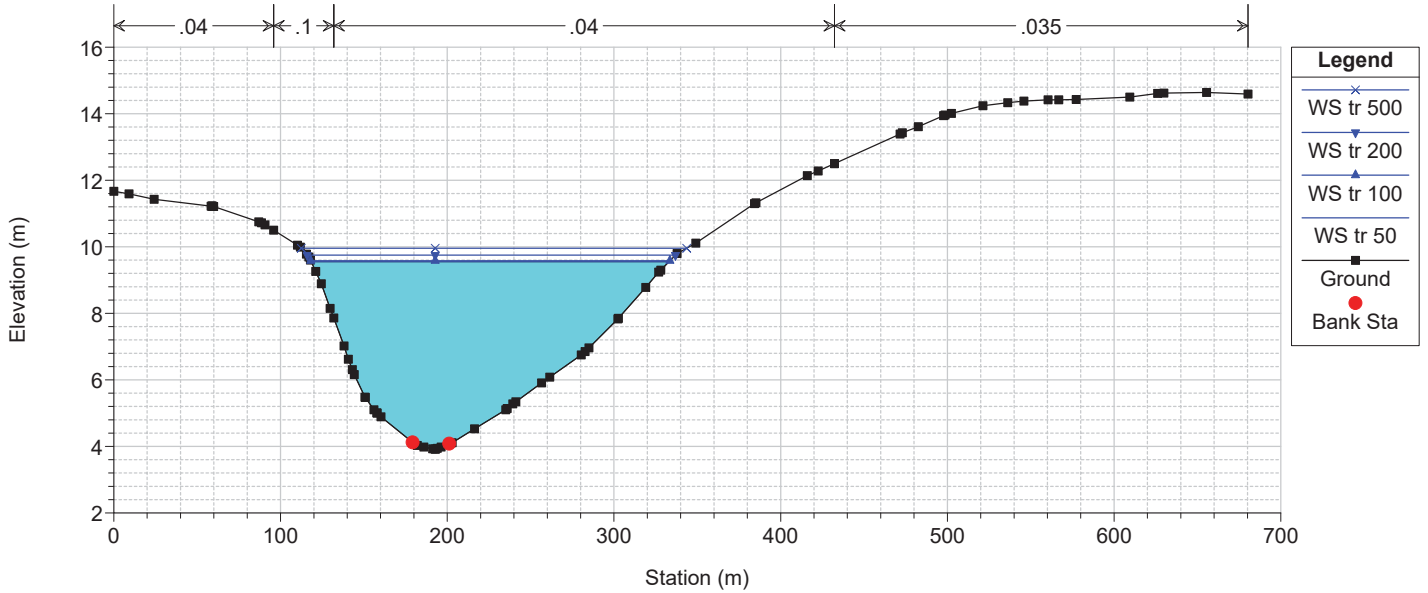
River = Riu Serra Reach = Asta 5 RS = 2593.563 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

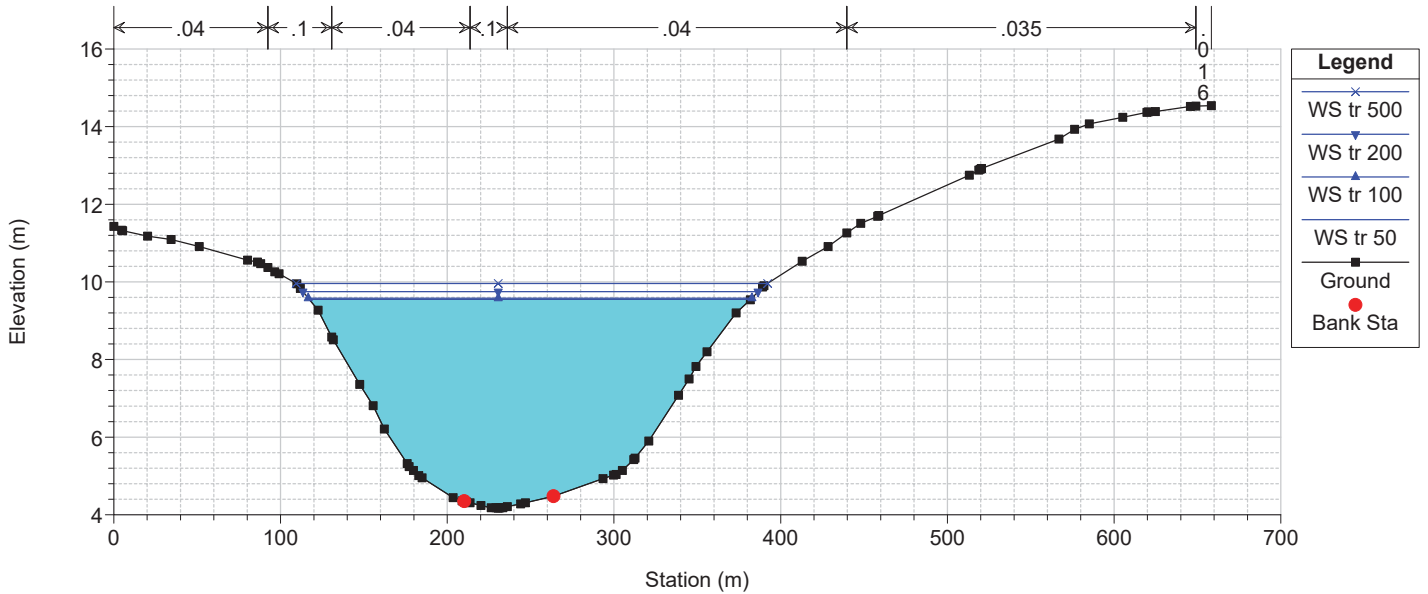
River = Riu Serra Reach = Asta 5 RS = 2517.326 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

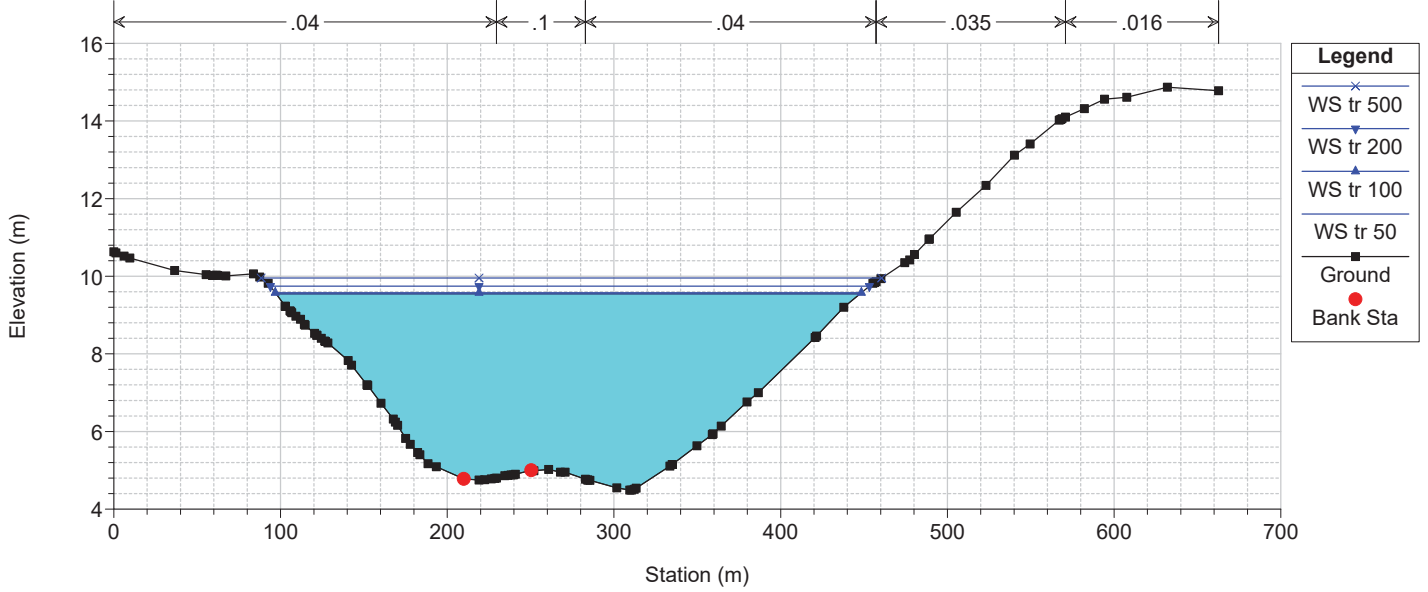
River = Riu Serra Reach = Asta 5 RS = 2451.02 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

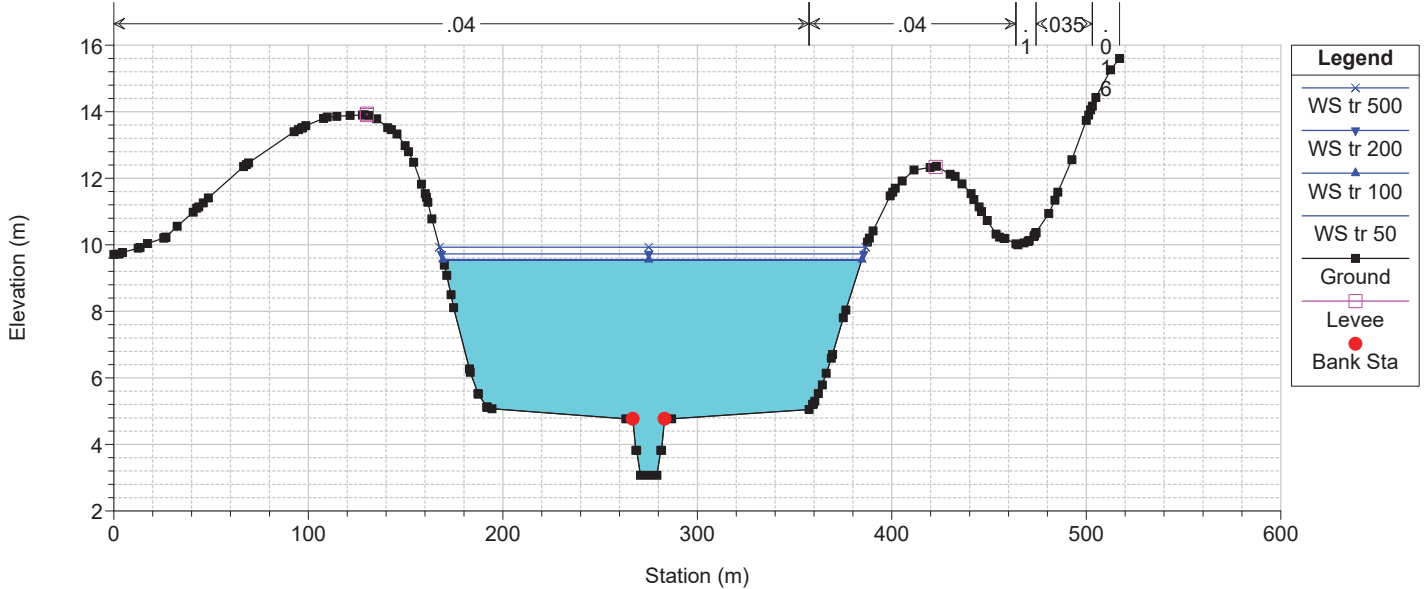
River = Riu Serra Reach = Asta 5 RS = 2371.578 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

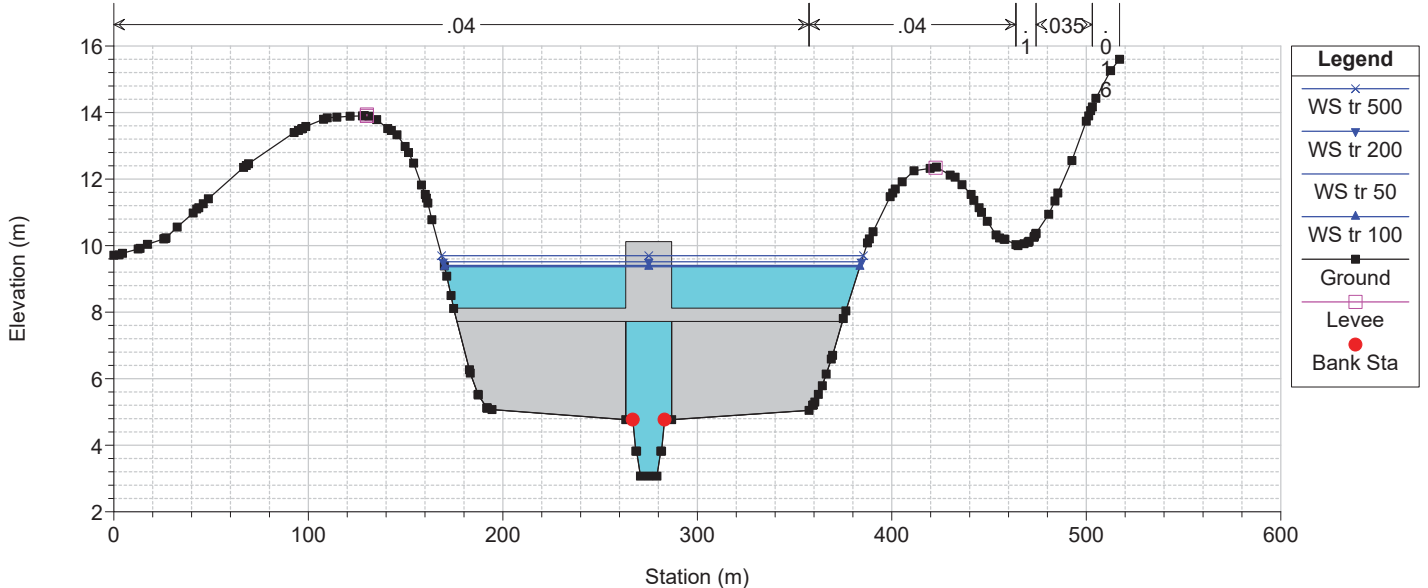
River = Riu Serra Reach = Asta 5 RS = 2300.882 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

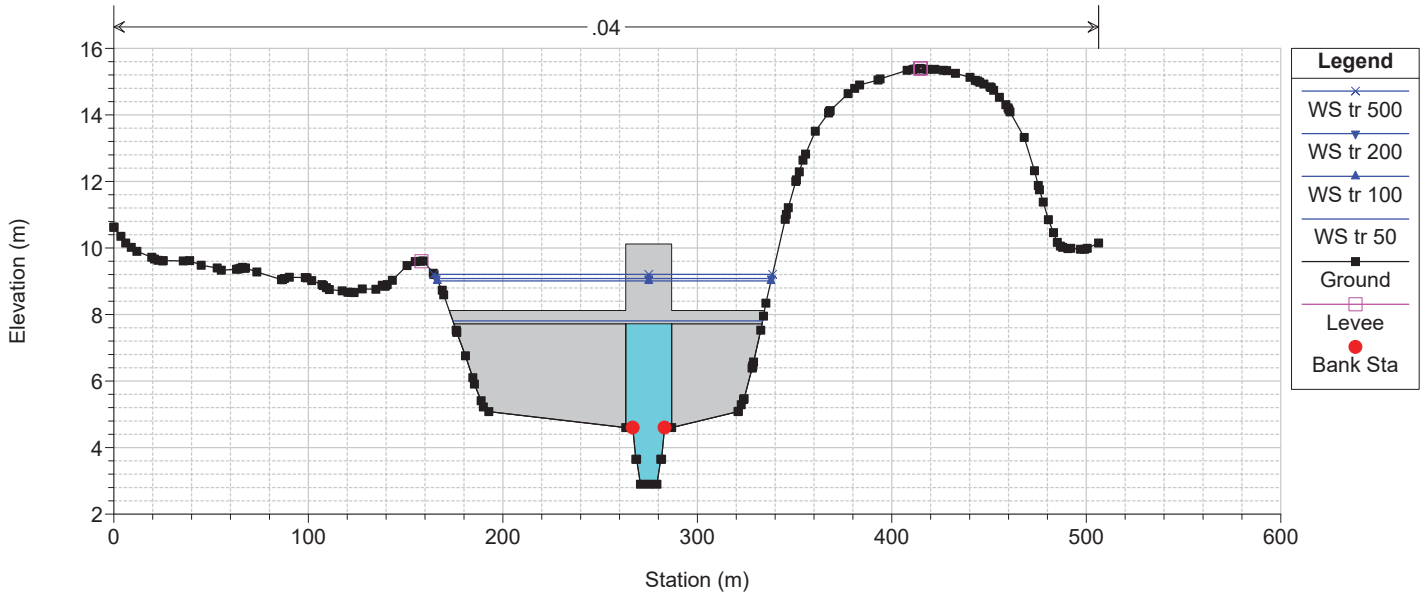
River = Riu Serra Reach = Asta 5 RS = 2269.042 BR COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

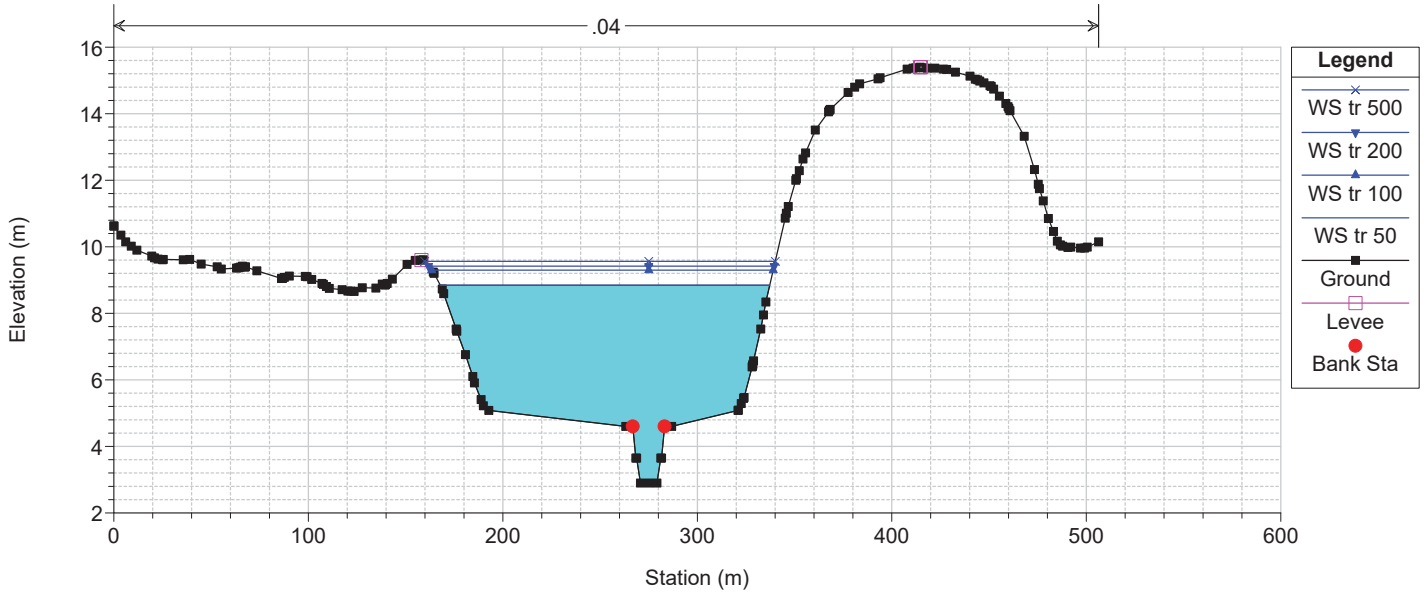
River = Riu Serra Reach = Asta 5 RS = 2269.042 BR COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

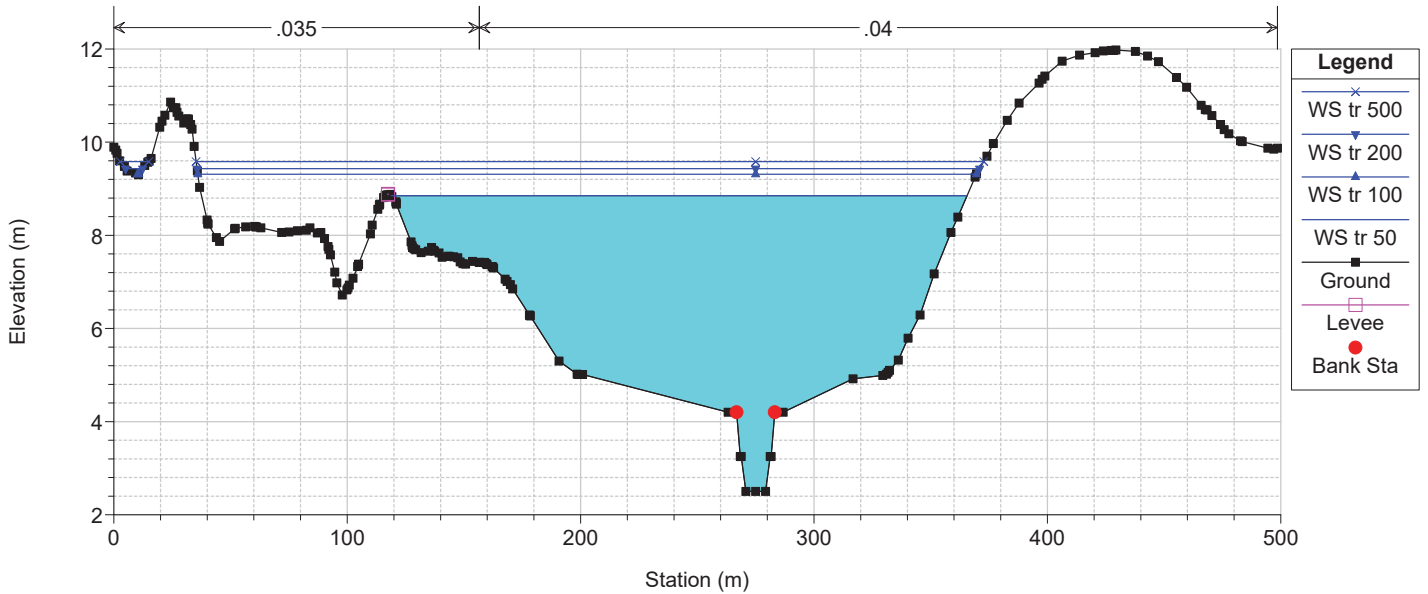
River = Riu Serra Reach = Asta 5 RS = 2239.005 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

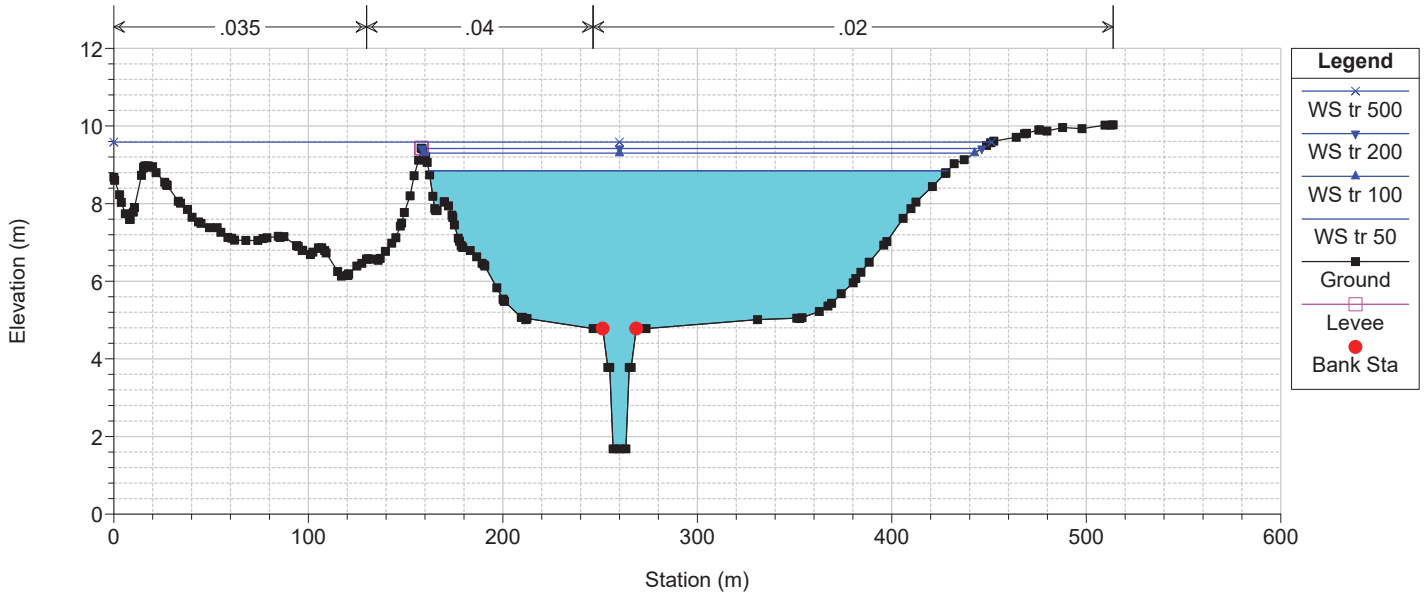
River = Riu Serra Reach = Asta 5 RS = 2212.591 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

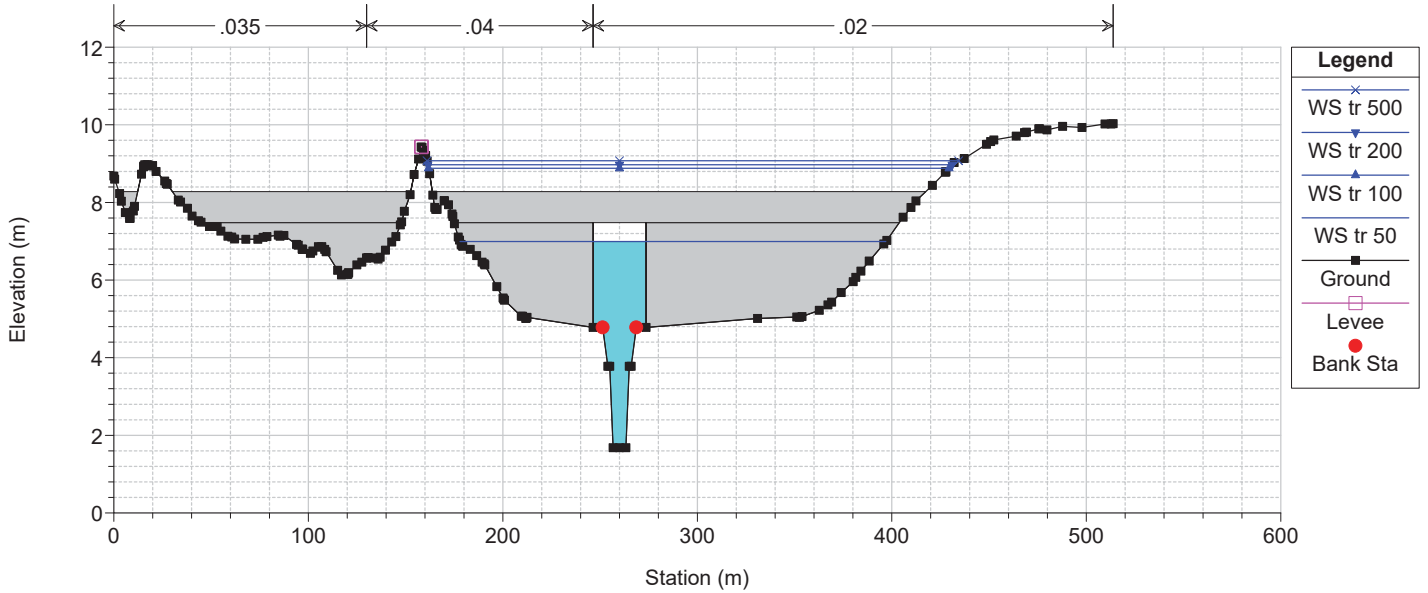
River = Riu Serra Reach = Asta 5 RS = 2178.839 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

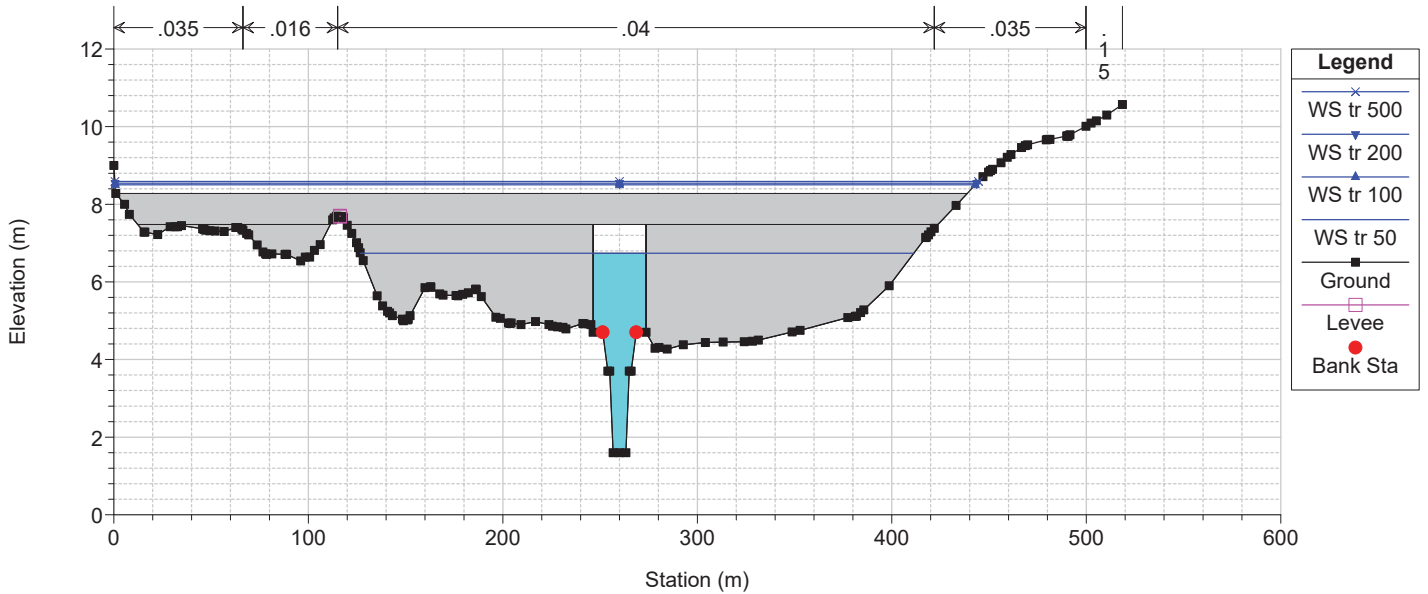
River = Riu Serra Reach = Asta 5 RS = 2163.072 BR PONTE SERRA COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

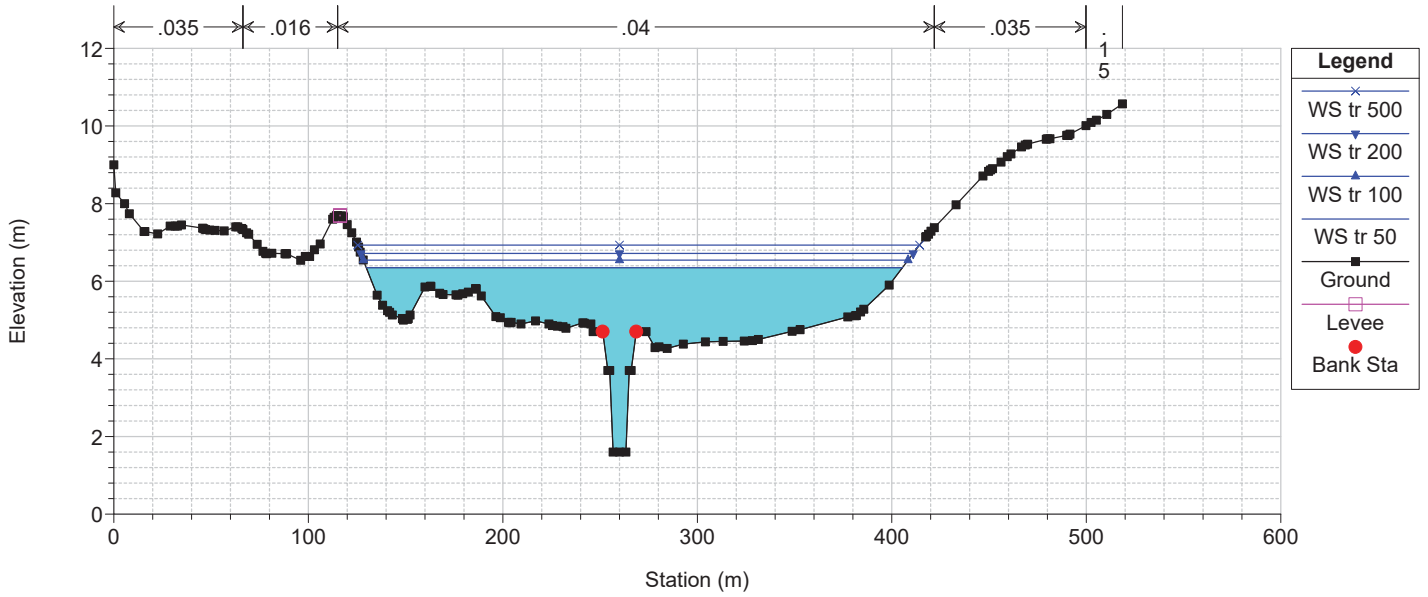
River = Riu Serra Reach = Asta 5 RS = 2163.072 BR PONTE SERRA COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

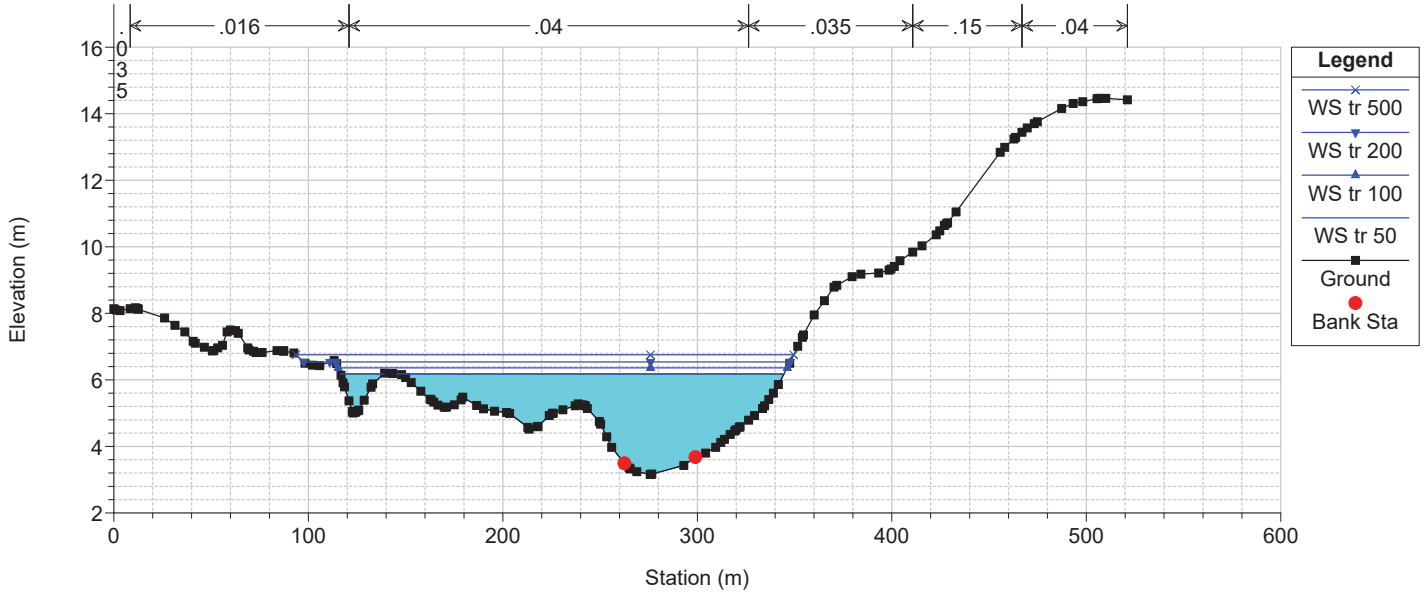
River = Riu Serra Reach = Asta 5 RS = 2136.69 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

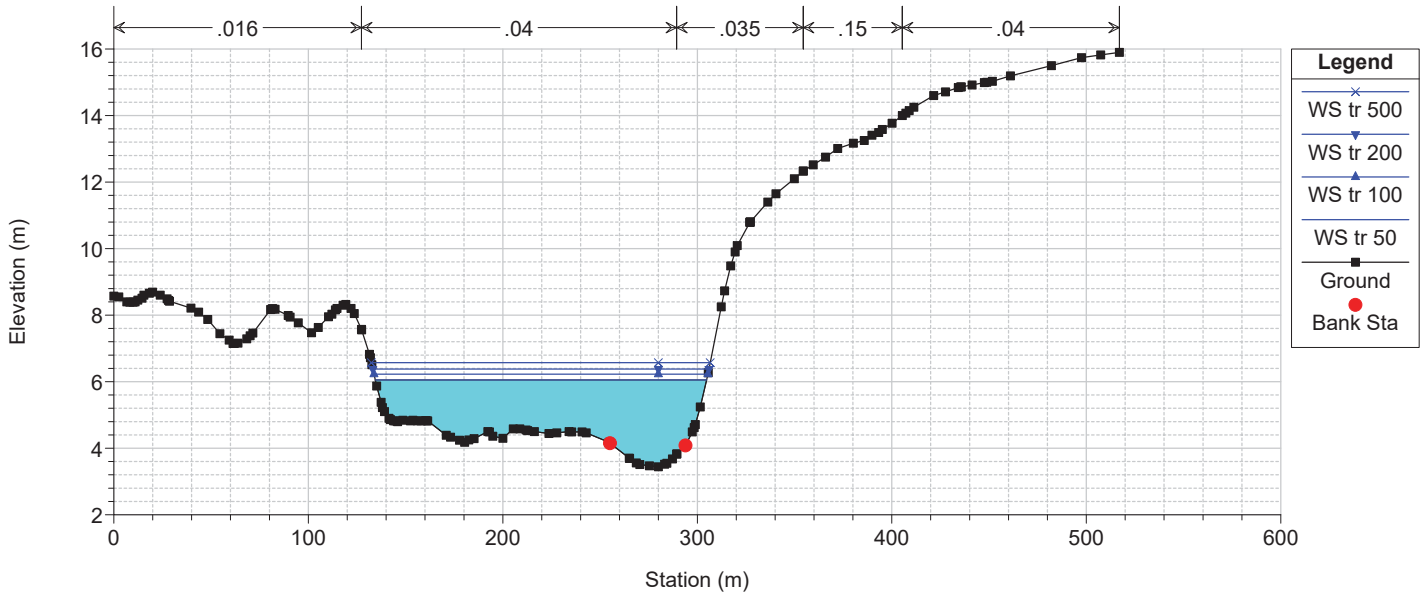
River = Riu Serra Reach = Asta 5 RS = 2074.004 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

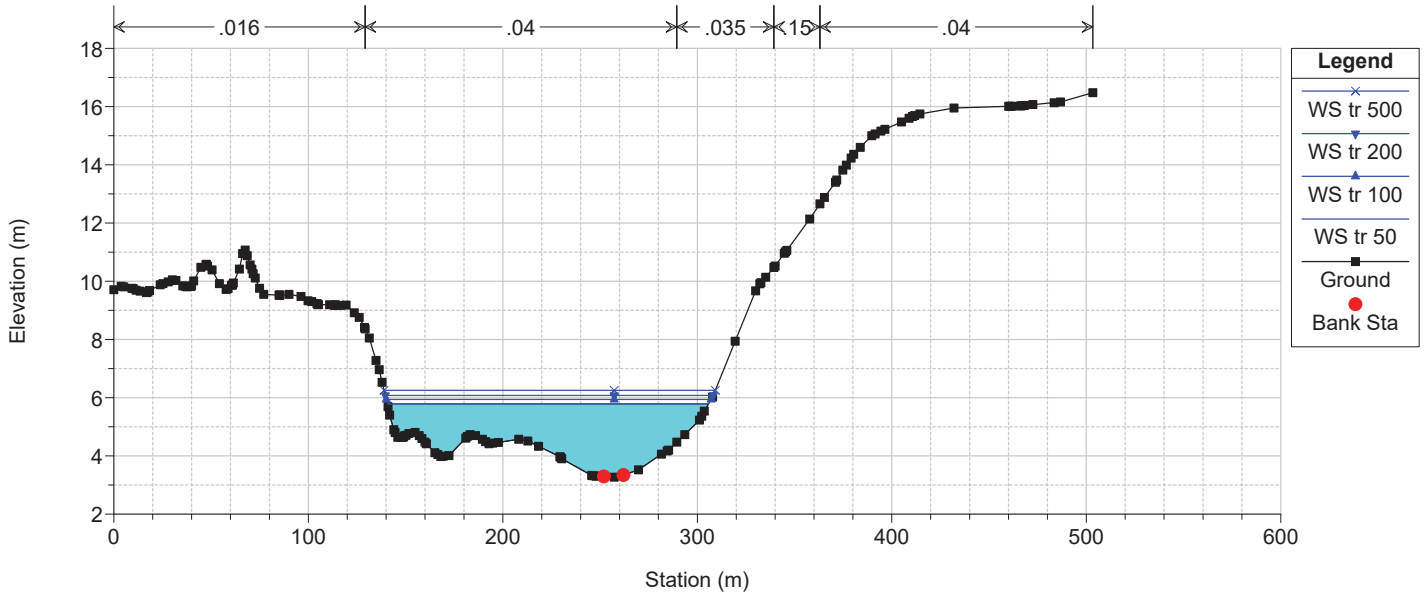
River = Riu Serra Reach = Asta 5 RS = 2020.476 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

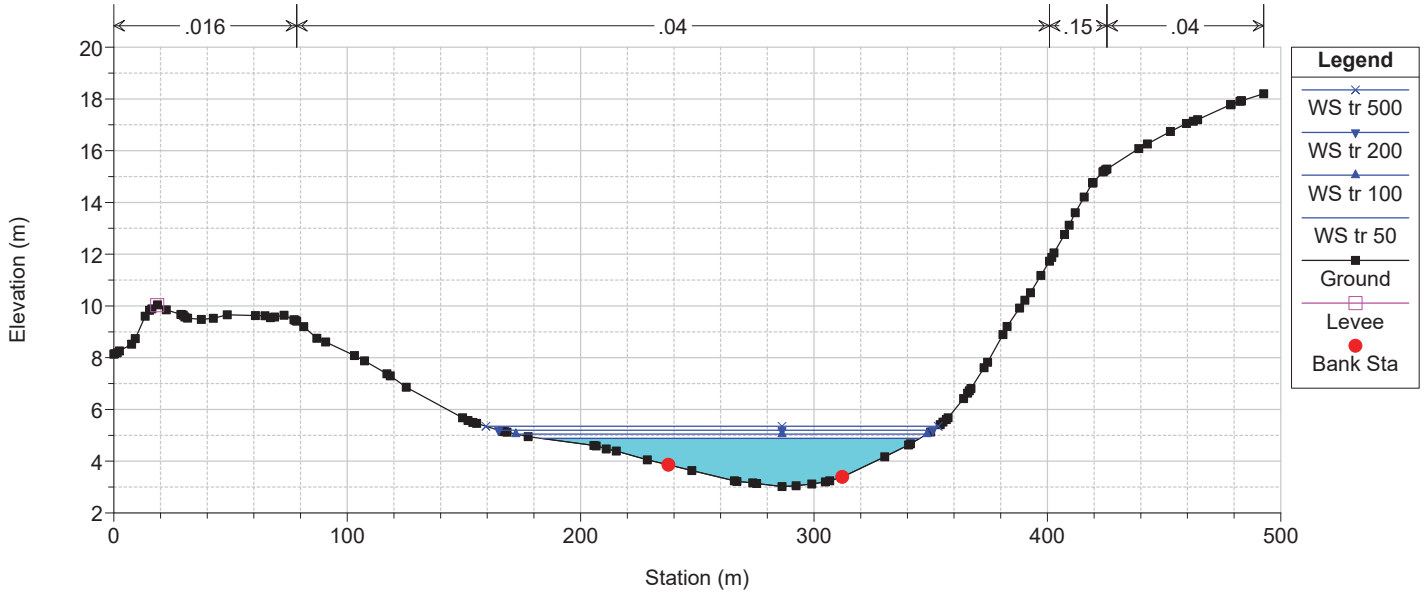
River = Riu Serra Reach = Asta 5 RS = 1932 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

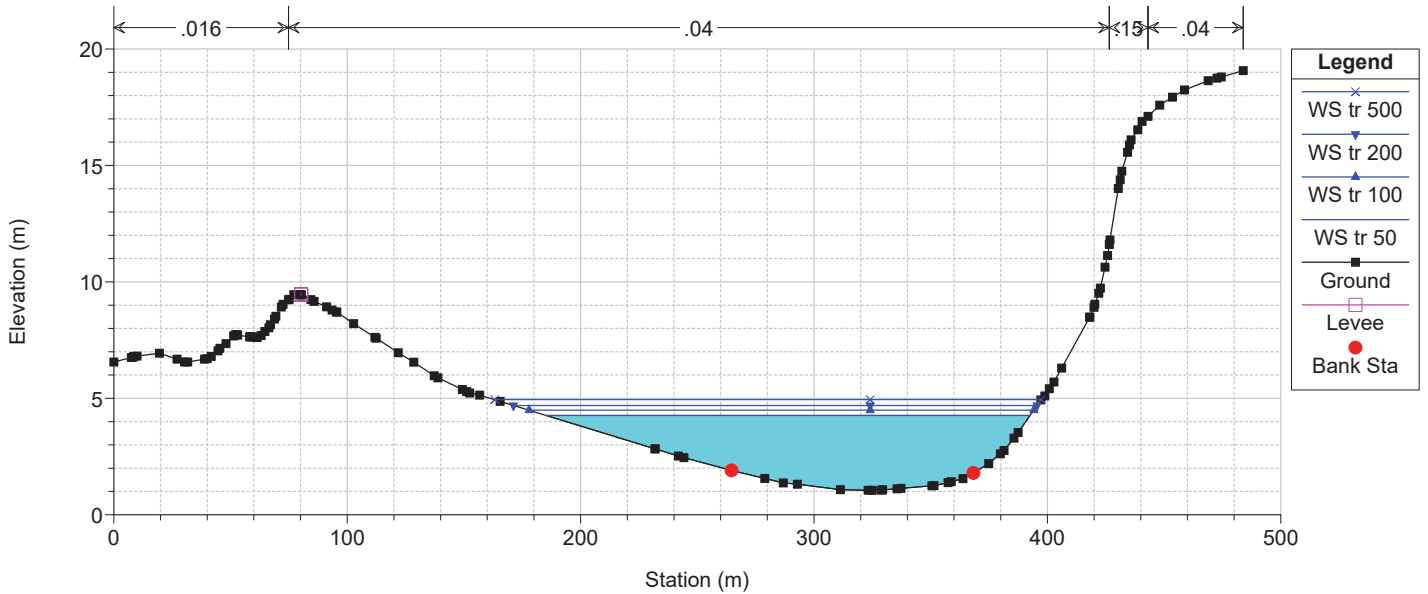
River = Riu Serra Reach = Asta 5 RS = 1834.316 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

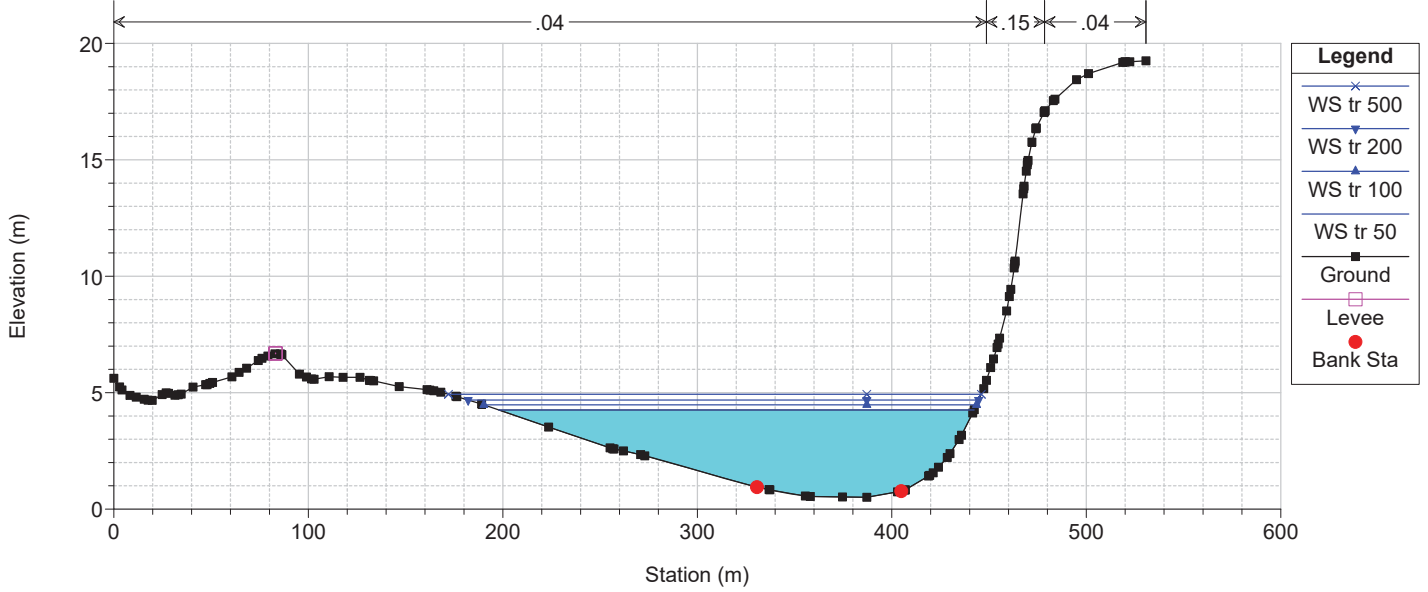
River = Riu Serra Reach = Asta 5 RS = 1737.41 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

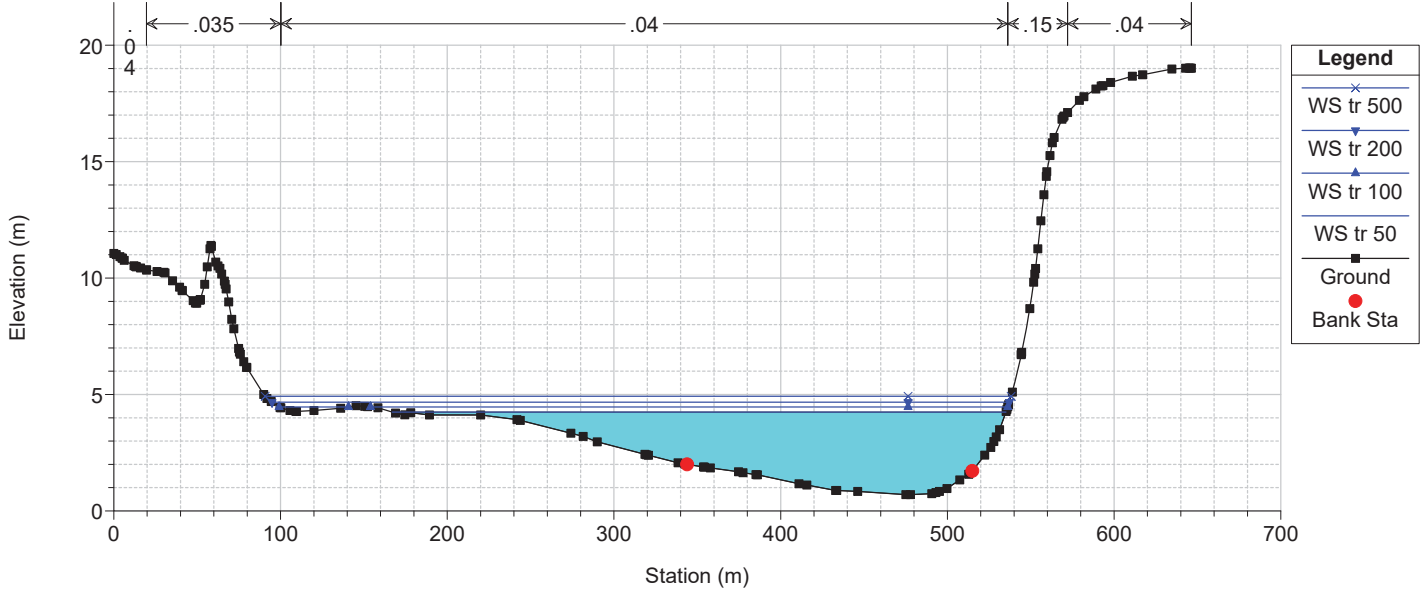
River = Riu Serra Reach = Asta 5 RS = 1662.837 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

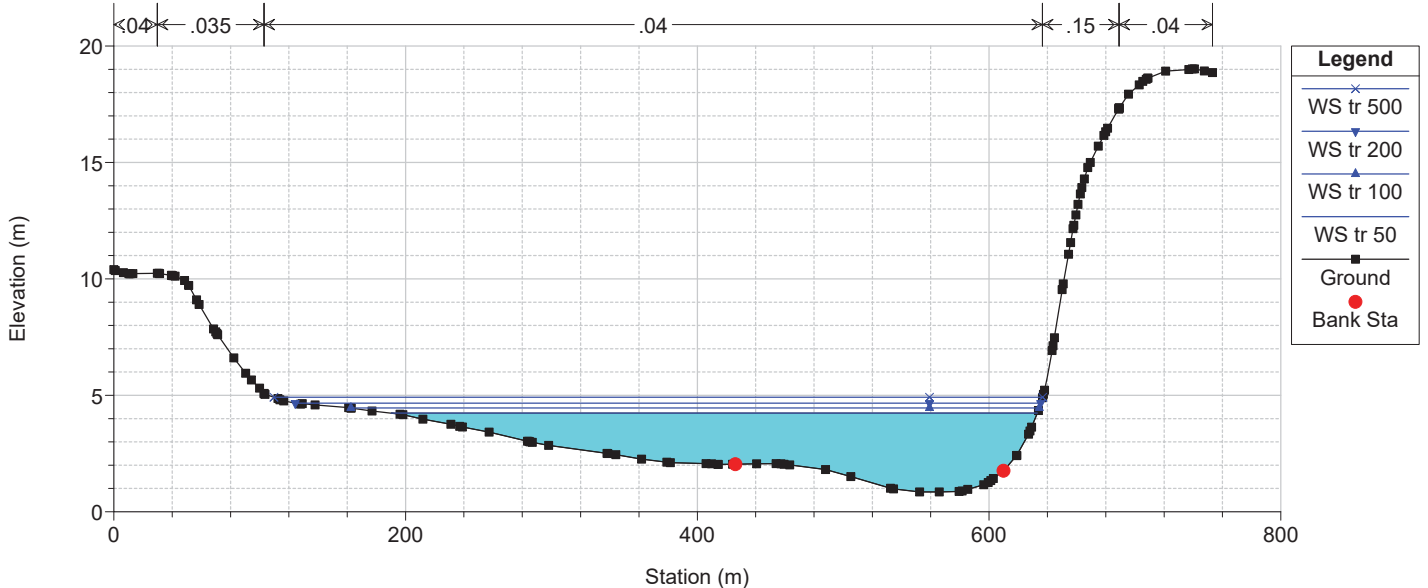
River = Riu Serra Reach = Asta 5 RS = 1591.515 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

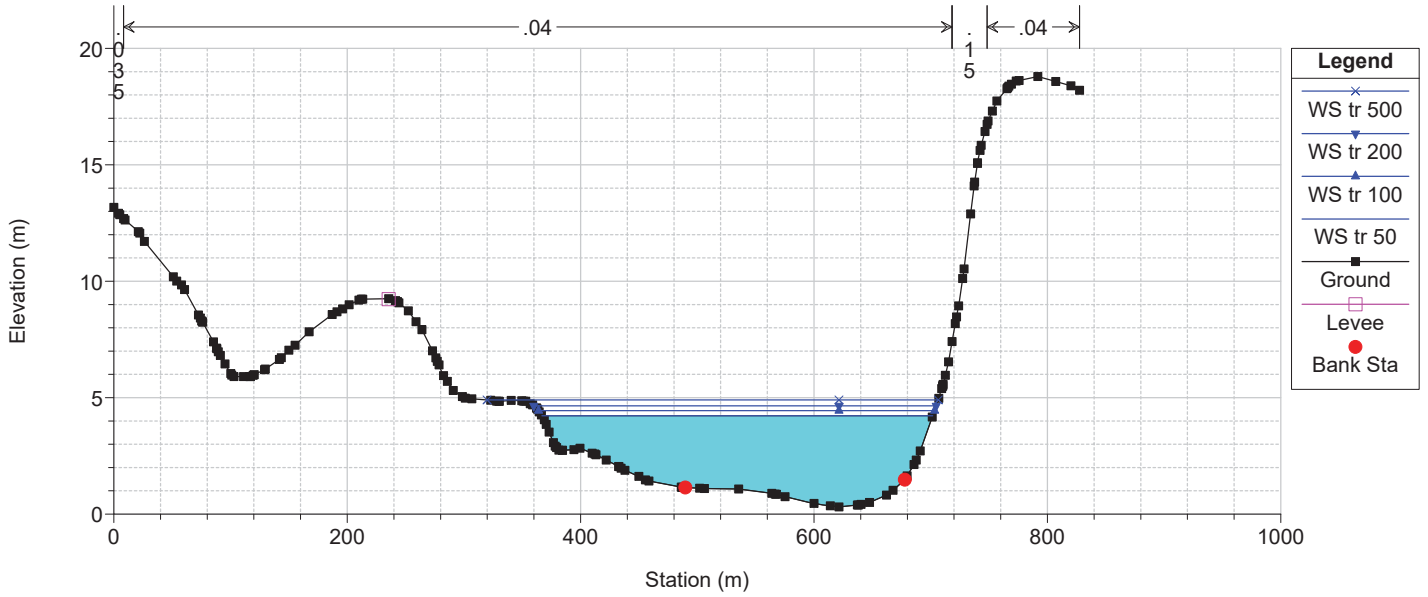
River = Riu Serra Reach = Asta 5 RS = 1508.89 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

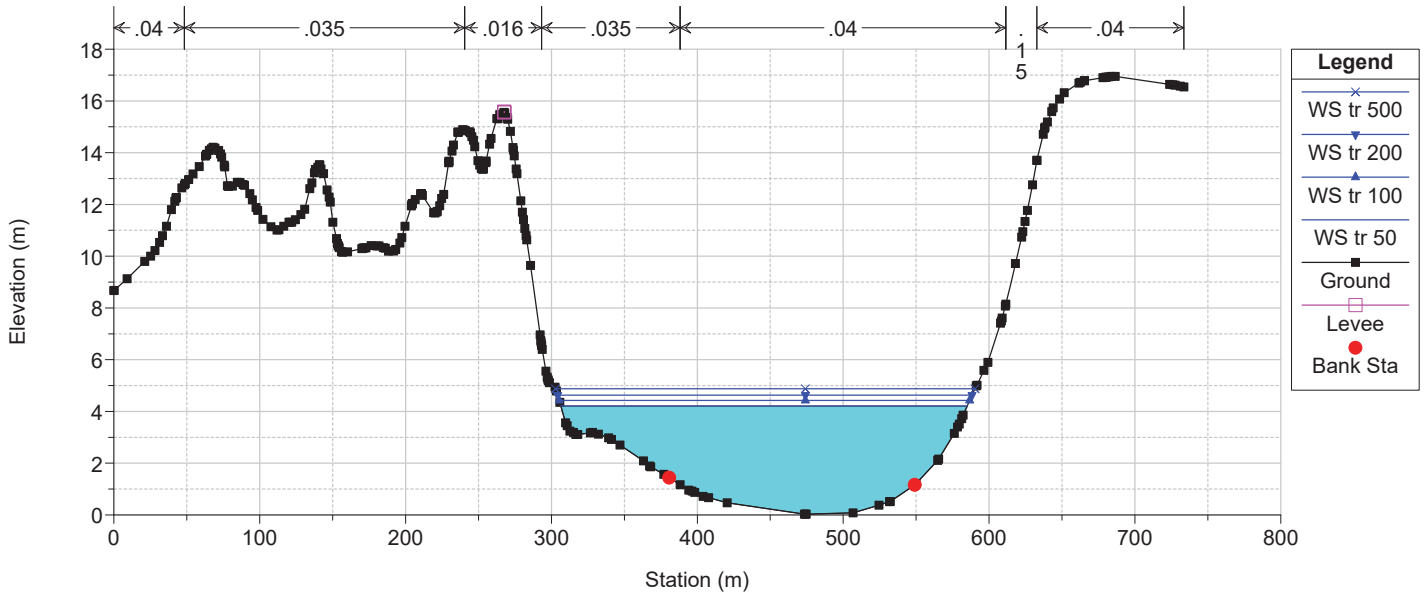
River = Riu Serra Reach = Asta 5 RS = 1426.933 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

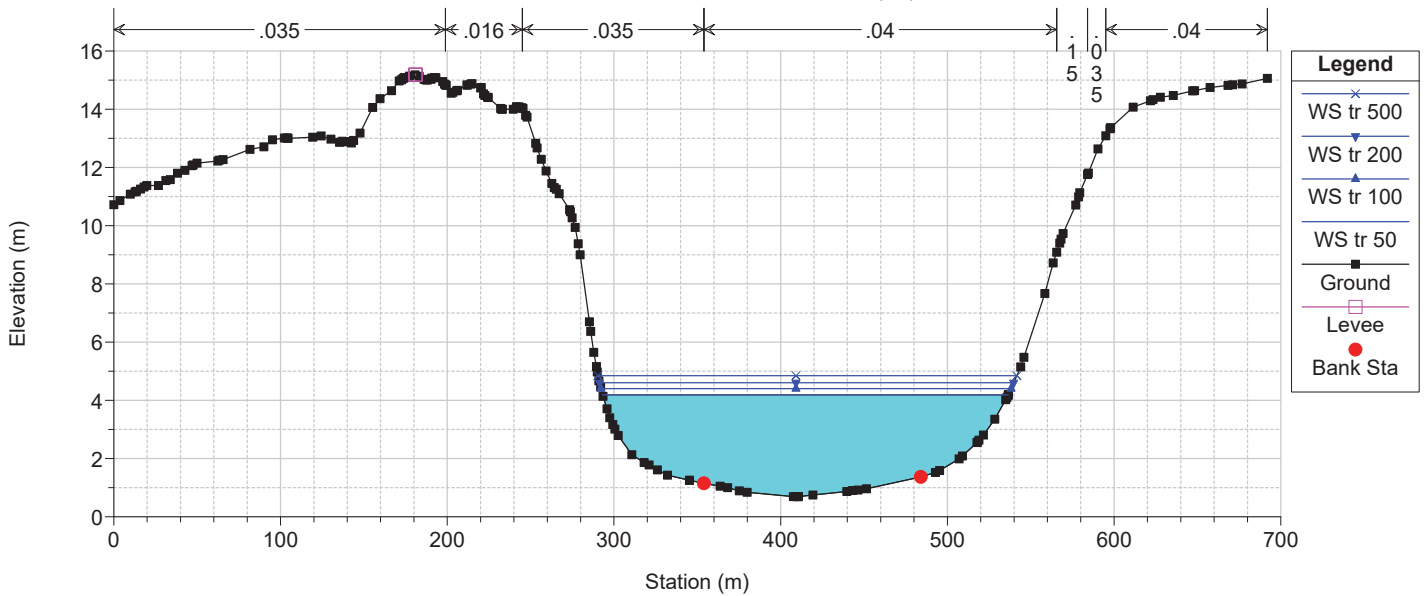
River = Riu Serra Reach = Asta 5 RS = 1341.355 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

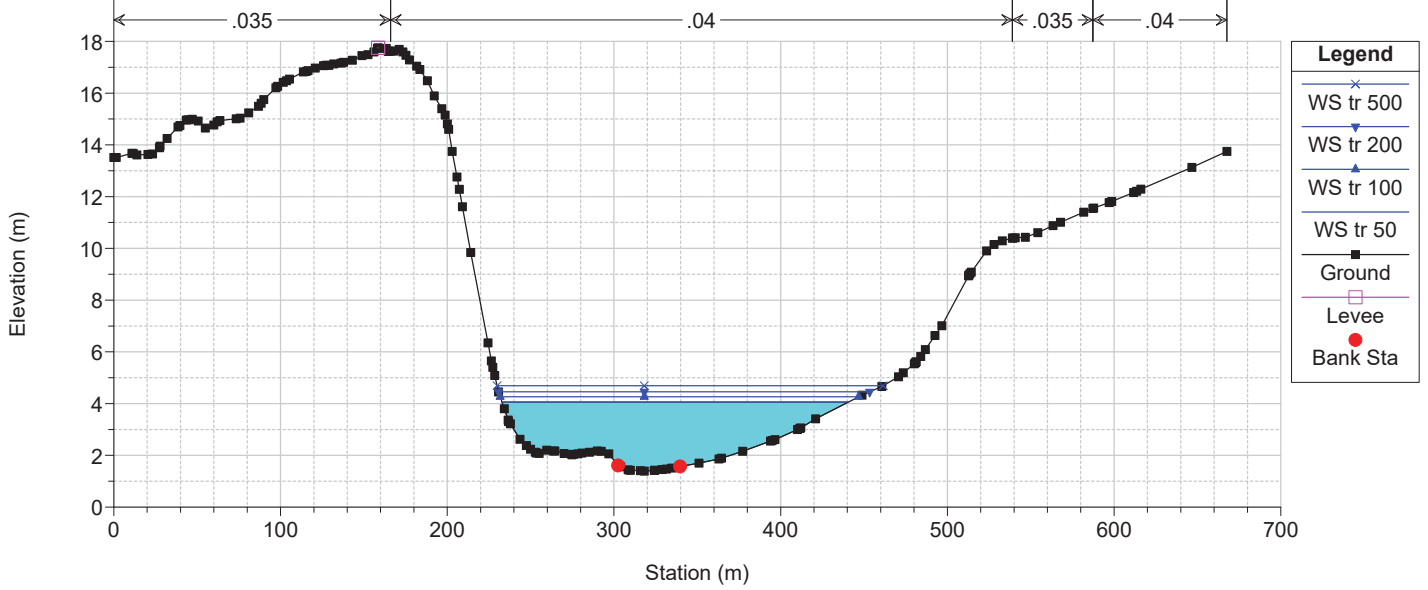
River = Riu Serra Reach = Asta 5 RS = 1273.128 COMUNE DI ALGERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

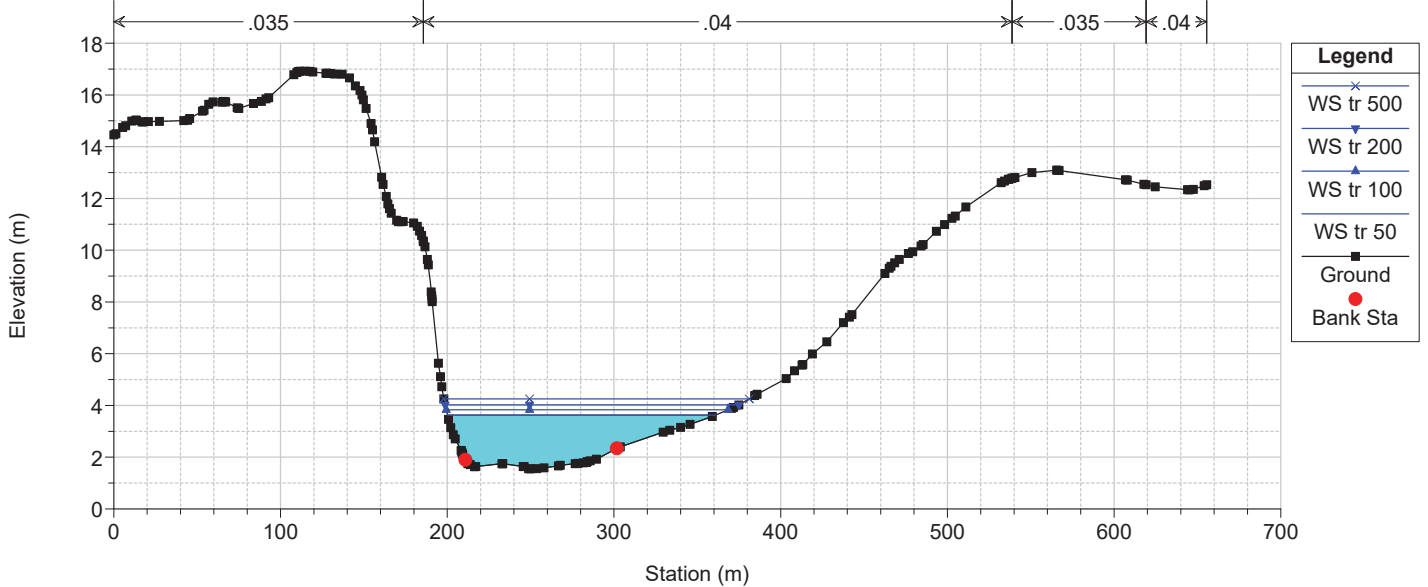
River = Riu Serra Reach = Asta 5 RS = 1169.528 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

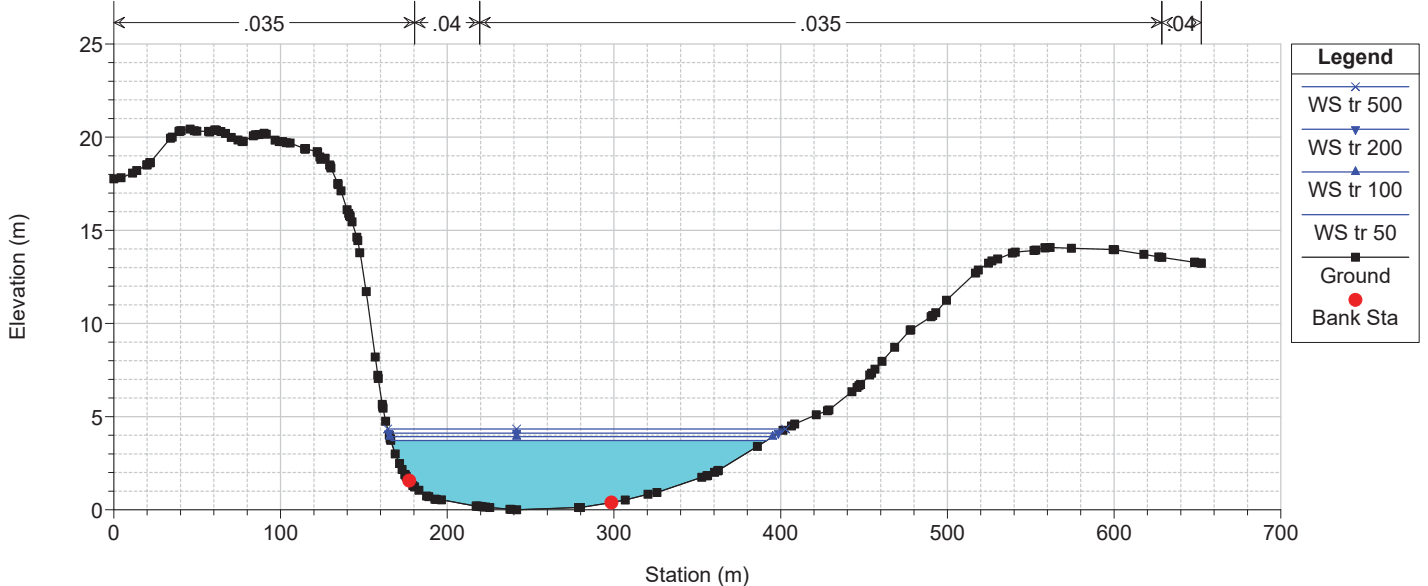
River = Riu Serra Reach = Asta 5 RS = 1080.263 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

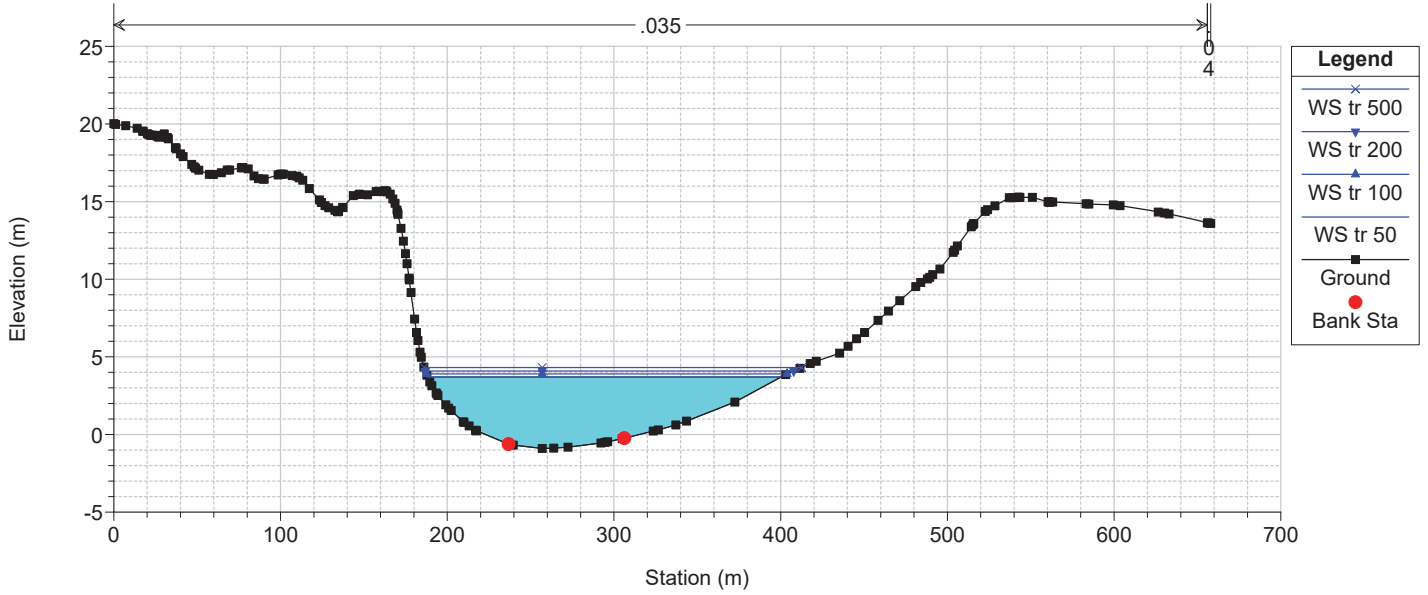
River = Riu Serra Reach = Asta 5 RS = 897.1031 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

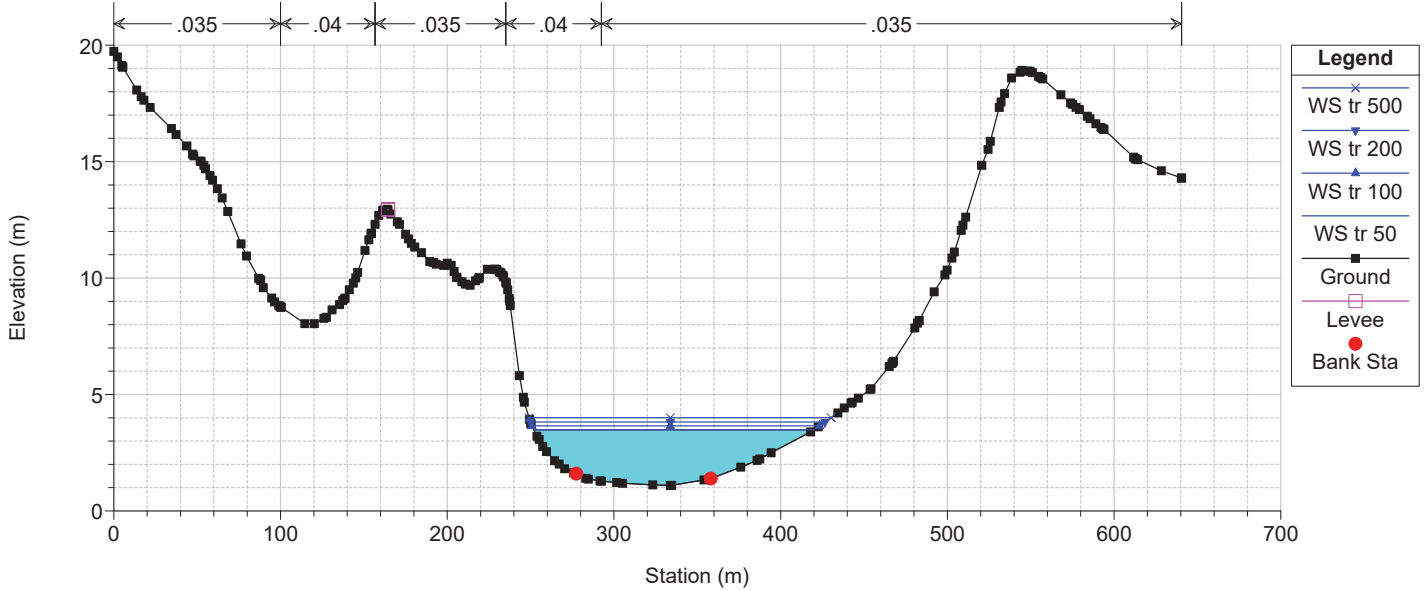
River = Riu Serra Reach = Asta 5 RS = 788.1014 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

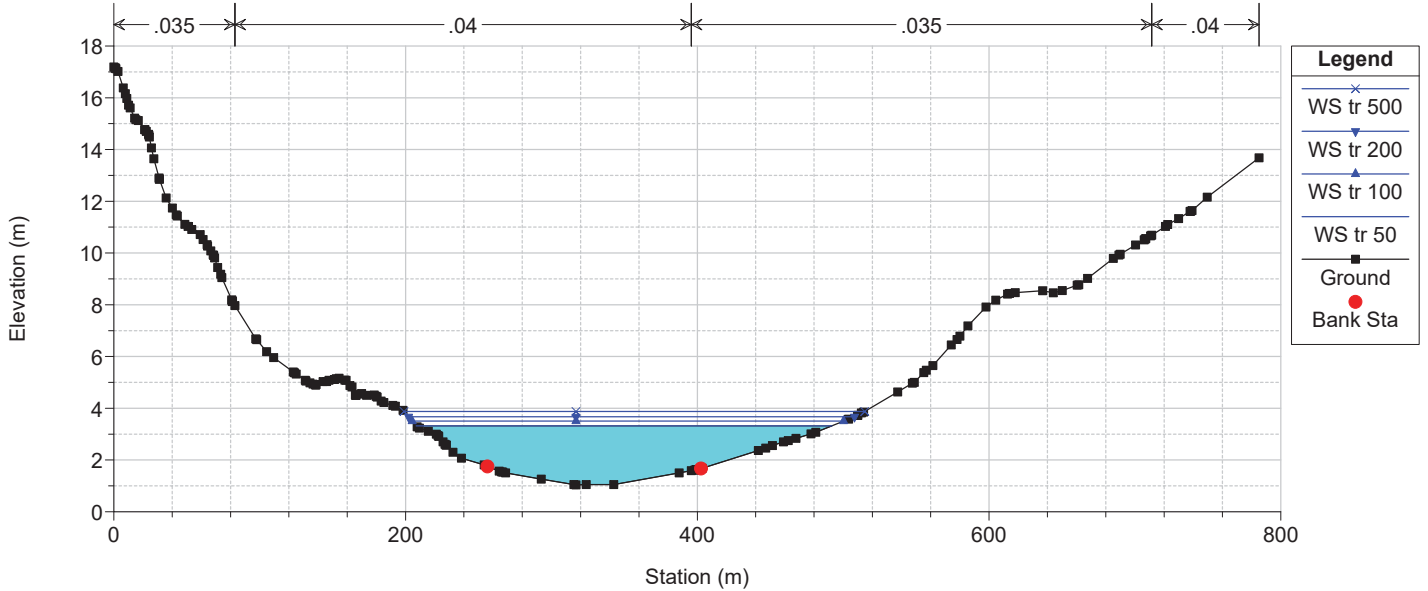
River = Riu Serra Reach = Asta 5 RS = 649.996 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

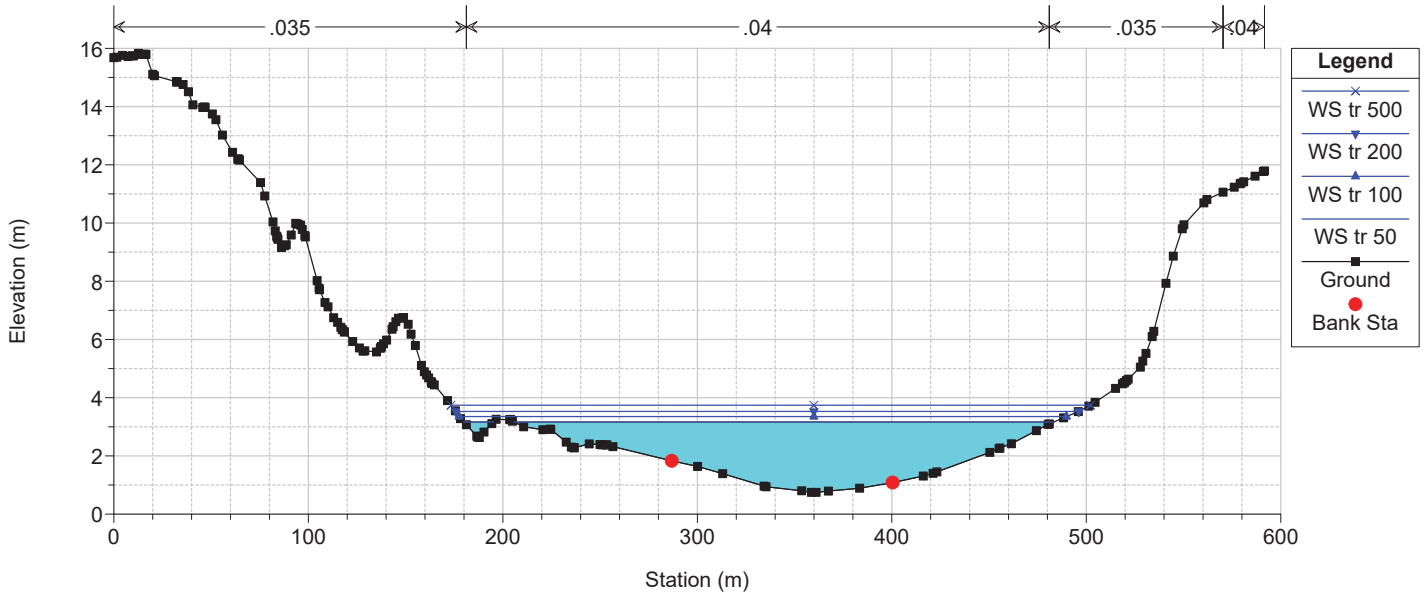
River = Riu Serra Reach = Asta 5 RS = 488.7593 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

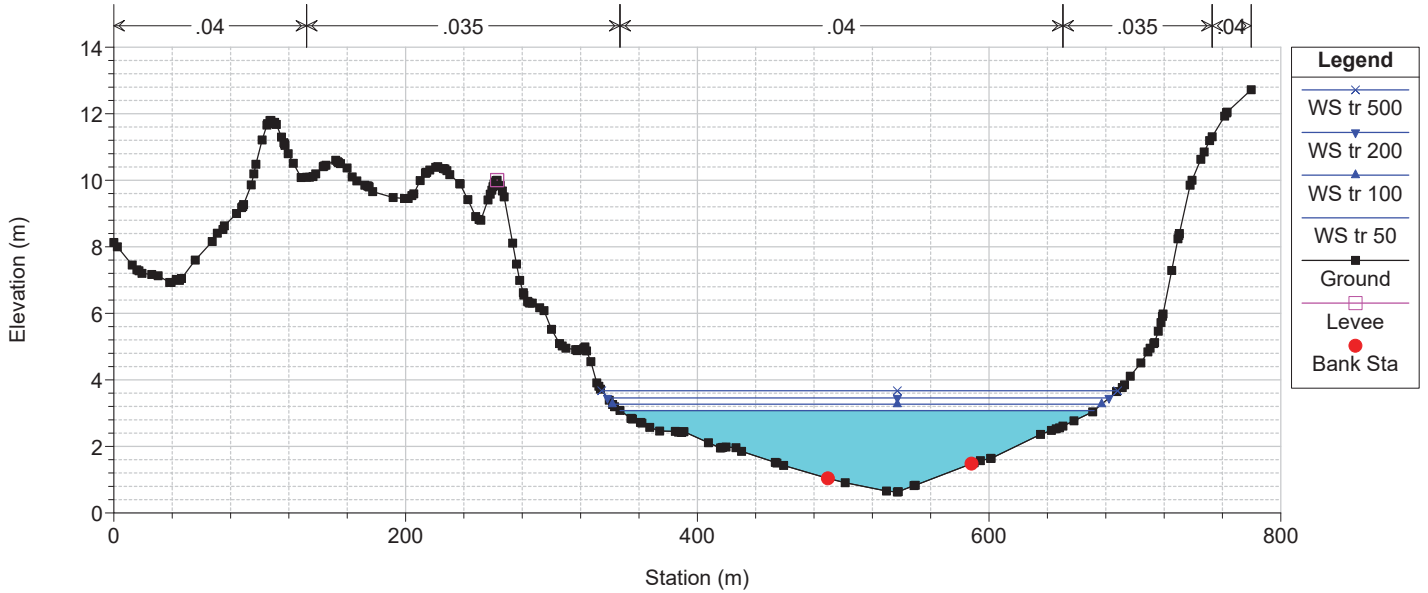
River = Riu Serra Reach = Asta 5 RS = 377.6013 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

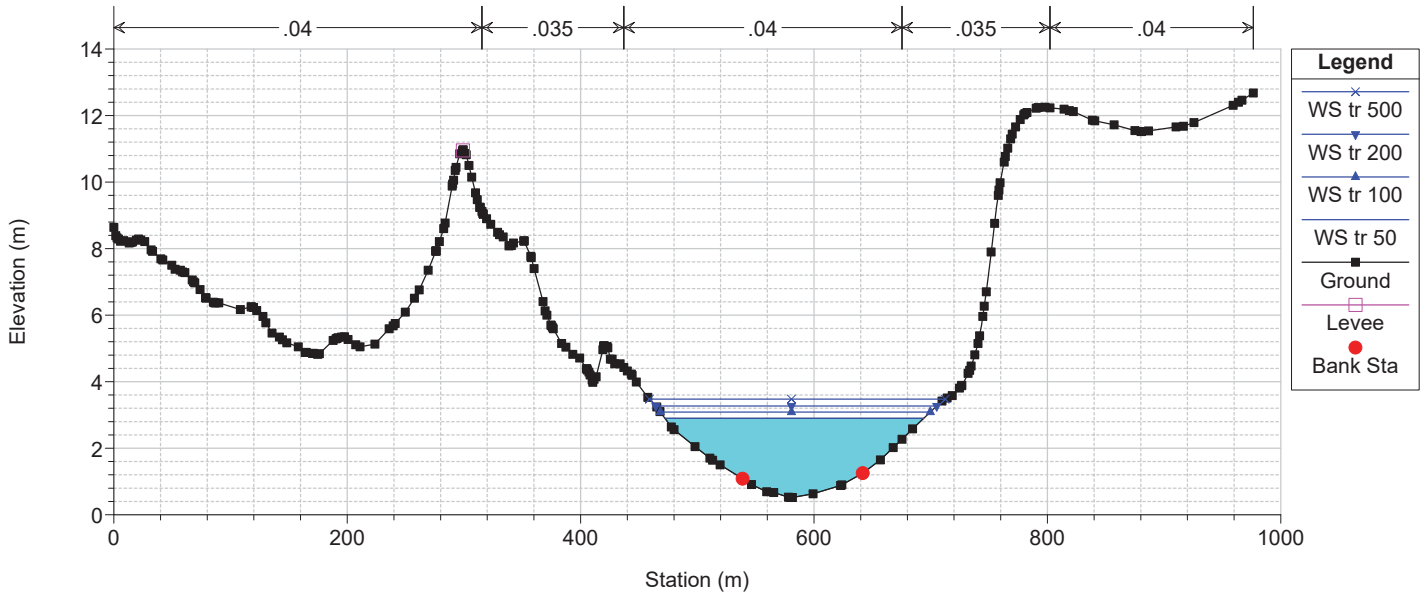
River = Riu Serra Reach = Asta 5 RS = 300.1948 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

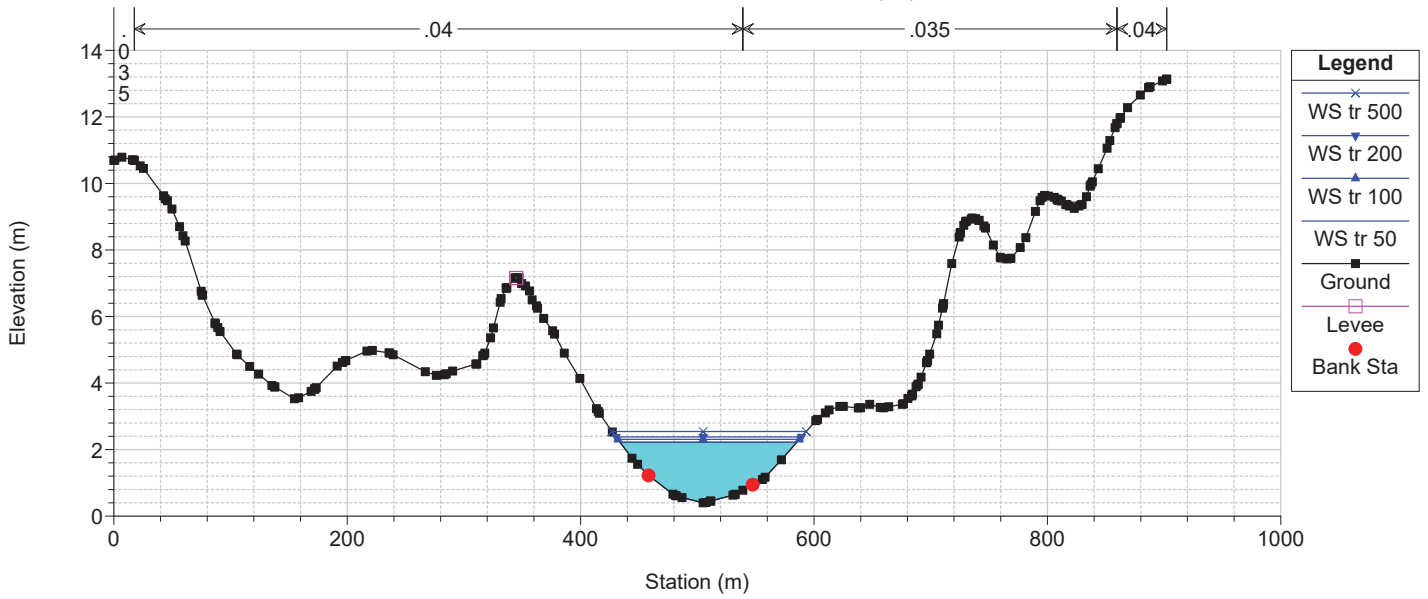
River = Riu Serra Reach = Asta 5 RS = 220.3344 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

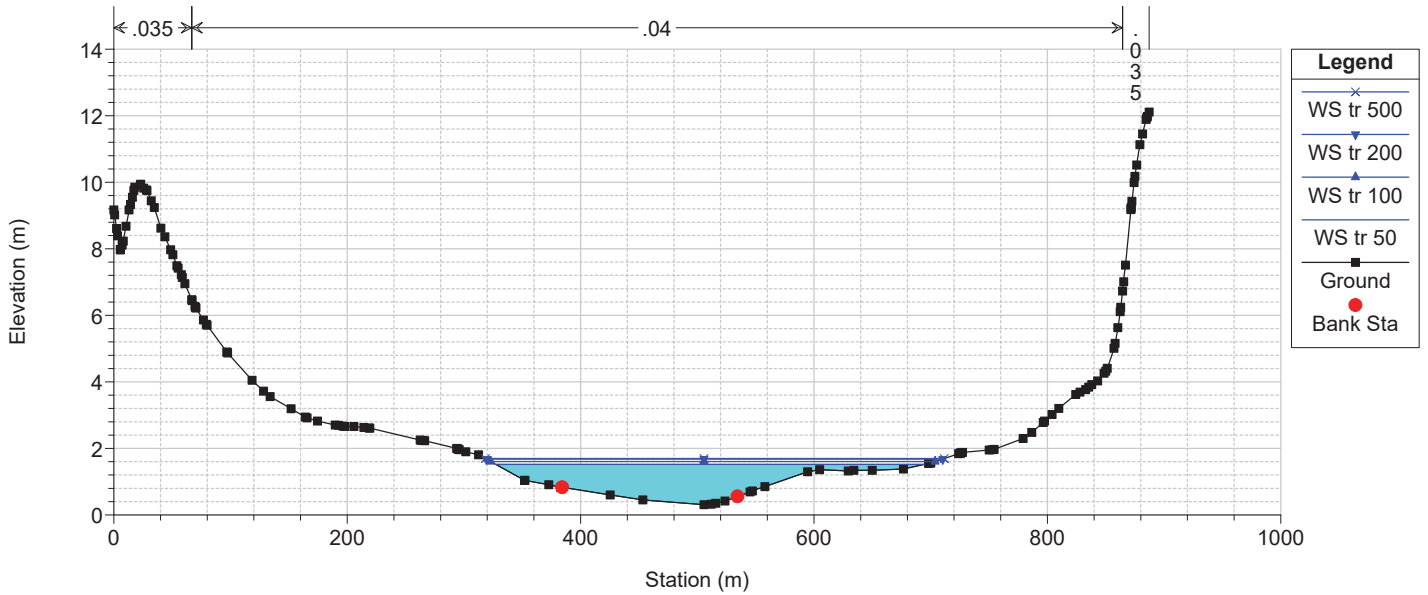
River = Riu Serra Reach = Asta 5 RS = 121.8444 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



rioserra_28092017 Plan: Plan 02 10/14/2020

Geom: rioserra_28092017 Flow: rioserra_14102020VS

River = Riu Serra Reach = Asta 5 RS = 38.38481 COMUNE DI ALGHERO (SS) - VARIANTE AL PAI ex art. 37 delle NA



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 1-2-3	9285.854	tr 50	352.56	29.66	34.07	32.26	34.24	0.001875	1.15	217.00	78.45	0.18
Asta 1-2-3	9285.854	tr 100	417.90	29.66	34.49	32.48	34.66	0.001799	1.20	250.91	85.37	0.18
Asta 1-2-3	9285.854	tr 200	483.67	29.66	34.87	32.70	35.06	0.001694	1.23	285.31	91.15	0.17
Asta 1-2-3	9285.854	tr 500	571.00	29.66	35.35	32.99	35.54	0.001542	1.24	330.11	96.47	0.17
Asta 1-2-3	9199.406	tr 50	352.56	29.40	33.59		33.97	0.005021	2.89	150.50	54.31	0.46
Asta 1-2-3	9199.406	tr 100	417.90	29.40	33.99		34.40	0.004690	2.98	173.11	57.18	0.45
Asta 1-2-3	9199.406	tr 200	483.67	29.40	34.38		34.81	0.004407	3.06	195.59	59.83	0.45
Asta 1-2-3	9199.406	tr 500	571.00	29.40	34.85		35.31	0.004091	3.15	224.79	62.83	0.44
Asta 1-2-3	9136.05	tr 50	352.56	28.39	31.97	31.97	33.26	0.026517	5.30	81.28	34.28	0.94
Asta 1-2-3	9136.05	tr 100	417.90	28.39	32.31	32.31	33.71	0.026030	5.58	92.85	35.76	0.94
Asta 1-2-3	9136.05	tr 200	483.67	28.39	32.61	32.61	34.13	0.025624	5.83	104.11	37.15	0.94
Asta 1-2-3	9136.05	tr 500	571.00	28.39	33.00	33.00	34.66	0.024990	6.12	118.93	38.90	0.94
Asta 1-2-3	9071.011	tr 50	352.56	26.97	31.64	30.03	31.99	0.005935	2.55	169.43	51.12	0.38
Asta 1-2-3	9071.011	tr 100	417.90	26.97	31.95	30.32	32.37	0.006364	2.76	185.78	52.27	0.40
Asta 1-2-3	9071.011	tr 200	483.67	26.97	32.24	30.59	32.72	0.006765	2.95	201.04	53.31	0.41
Asta 1-2-3	9071.011	tr 500	571.00	26.97	32.59	30.92	33.15	0.007259	3.20	219.93	54.57	0.43
Asta 1-2-3	8985.854	tr 50	352.56	26.87	31.22		31.54	0.004533	2.72	156.40	51.70	0.43
Asta 1-2-3	8985.854	tr 100	417.90	26.87	31.50		31.89	0.004901	2.96	171.36	53.06	0.45
Asta 1-2-3	8985.854	tr 200	483.67	26.87	31.76		32.21	0.005231	3.17	185.43	54.22	0.47
Asta 1-2-3	8985.854	tr 500	571.00	26.87	32.08		32.60	0.005622	3.43	202.89	55.58	0.49
Asta 1-2-3	8885.854	tr 50	352.56	26.38	31.14		31.25	0.001389	1.66	262.05	83.91	0.25
Asta 1-2-3	8885.854	tr 100	417.90	26.38	31.43		31.57	0.001494	1.79	287.10	85.94	0.26
Asta 1-2-3	8885.854	tr 200	483.67	26.38	31.71		31.86	0.001585	1.91	310.86	87.73	0.27
Asta 1-2-3	8885.854	tr 500	571.00	26.38	32.04		32.22	0.001689	2.06	340.64	89.92	0.28
Asta 1-2-3	8785.854	tr 50	352.56	27.33	30.63		30.98	0.005727	2.85	149.63	69.03	0.52
Asta 1-2-3	8785.854	tr 100	417.90	27.33	30.88		31.28	0.005892	3.04	167.28	71.41	0.53
Asta 1-2-3	8785.854	tr 200	483.67	27.33	31.12		31.56	0.006010	3.21	184.38	73.44	0.55
Asta 1-2-3	8785.854	tr 500	571.00	27.33	31.41		31.90	0.006122	3.41	206.12	75.75	0.56
Asta 1-2-3	8685.854	tr 50	352.56	27.38	29.66	29.49	30.27	0.008415	3.57	109.46	74.04	0.82
Asta 1-2-3	8685.854	tr 100	417.90	27.38	29.81	29.68	30.52	0.009082	3.89	120.62	76.76	0.86
Asta 1-2-3	8685.854	tr 200	483.67	27.38	29.95	29.87	30.76	0.009696	4.19	131.19	79.25	0.90
Asta 1-2-3	8685.854	tr 500	571.00	27.38	30.11	30.10	31.07	0.010415	4.55	144.51	82.11	0.94
Asta 1-2-3	8585.854	tr 50	352.56	26.86	28.65	28.65	29.26	0.012105	3.81	108.92	90.89	0.95
Asta 1-2-3	8585.854	tr 100	417.90	26.86	28.81	28.81	29.48	0.011705	4.00	124.35	95.04	0.95
Asta 1-2-3	8585.854	tr 200	483.67	26.86	28.97	28.97	29.68	0.011391	4.16	139.31	98.89	0.95
Asta 1-2-3	8585.854	tr 500	571.00	26.86	29.15	29.15	29.93	0.011286	4.39	157.37	103.35	0.96
Asta 1-2-3	8485.854	tr 50	352.56	23.19	26.20	24.52	26.24	0.000406	1.00	425.42	211.27	0.19
Asta 1-2-3	8485.854	tr 100	417.90	23.19	26.32	24.64	26.38	0.000480	1.12	452.00	215.36	0.21
Asta 1-2-3	8485.854	tr 200	483.67	23.19	26.44	24.75	26.50	0.000552	1.23	476.89	218.97	0.22
Asta 1-2-3	8485.854	tr 500	571.00	23.19	26.57	24.89	26.65	0.000647	1.37	506.81	223.18	0.25
Asta 1-2-3	8402.943	tr 50	352.56	23.41	26.16		26.20	0.000511	1.07	394.87	222.32	0.21
Asta 1-2-3	8402.943	tr 100	417.90	23.41	26.27		26.33	0.000599	1.19	421.25	228.92	0.23
Asta 1-2-3	8402.943	tr 200	483.67	23.41	26.38		26.45	0.000684	1.31	446.15	234.59	0.25
Asta 1-2-3	8402.943	tr 500	571.00	23.41	26.51		26.59	0.000794	1.45	476.10	240.74	0.27
Asta 1-2-3	8295.504	tr 50	352.56	24.49	25.99		26.09	0.002628	1.53	262.65	264.48	0.43
Asta 1-2-3	8295.504	tr 100	417.90	24.49	26.09		26.20	0.002785	1.65	288.48	269.25	0.45
Asta 1-2-3	8295.504	tr 200	483.67	24.49	26.18		26.31	0.002935	1.77	312.45	273.60	0.46
Asta 1-2-3	8295.504	tr 500	571.00	24.49	26.27		26.43	0.003178	1.92	339.82	278.38	0.49
Asta 1-2-3	8185.854	tr 50	352.56	23.80	25.39	25.39	25.60	0.008792	2.71	209.24	402.42	0.77
Asta 1-2-3	8185.854	tr 100	417.90	23.80	25.44	25.44	25.68	0.009722	2.92	227.33	404.23	0.81
Asta 1-2-3	8185.854	tr 200	483.67	23.80	25.48	25.48	25.75	0.010478	3.10	244.83	405.97	0.85
Asta 1-2-3	8185.854	tr 500	571.00	23.80	25.55	25.55	25.84	0.010733	3.23	271.55	408.62	0.87
Asta 1-2-3	8085.854	tr 50	352.56	21.08	22.25	22.70	23.68	0.056292	5.32	67.61	89.88	1.84
Asta 1-2-3	8085.854	tr 100	417.90	21.08	22.41	22.85	23.80	0.044478	5.28	81.91	96.72	1.68
Asta 1-2-3	8085.854	tr 200	483.67	21.08	22.57	22.98	23.90	0.035235	5.19	97.97	103.62	1.54
Asta 1-2-3	8085.854	tr 500	571.00	21.08	23.58	23.16	23.96	0.004684	2.88	225.39	145.44	0.62
Asta 1-2-3	7985.854	tr 50	356.50	20.52	22.93	22.02	23.04	0.001503	1.69	260.32	168.60	0.36
Asta 1-2-3	7985.854	tr 100	421.83	20.52	23.11	22.15	23.23	0.001526	1.79	291.58	175.32	0.36
Asta 1-2-3	7985.854	tr 200	487.50	20.52	23.28	22.27	23.42	0.001534	1.87	322.47	181.75	0.37
Asta 1-2-3	7985.854	tr 500	574.63	20.52	23.49		23.64	0.001555	1.99	361.67	191.23	0.38
Asta 1-2-3	7885.854	tr 50	356.50	20.42	22.85		22.91	0.000850	1.25	380.50	307.50	0.27
Asta 1-2-3	7885.854	tr 100	421.83	20.42	23.05		23.11	0.000805	1.29	441.16	326.79	0.26
Asta 1-2-3	7885.854	tr 200	487.50	20.42	23.23		23.29	0.000777	1.32	504.41	359.51	0.26
Asta 1-2-3	7885.854	tr 500	574.63	20.42	23.45		23.51	0.000704	1.33	586.87	370.03	0.25

HEC-RAS Plan: Plan 02 (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 1-2-3	7785.854	tr 50	356.50	20.34	22.67		22.79	0.001783	1.80	250.14	171.86	0.39
Asta 1-2-3	7785.854	tr 100	421.83	20.34	22.86		22.98	0.001769	1.89	282.89	180.11	0.39
Asta 1-2-3	7785.854	tr 200	487.50	20.34	23.03		23.17	0.001743	1.97	315.28	187.57	0.39
Asta 1-2-3	7785.854	tr 500	574.63	20.34	23.25		23.40	0.001704	2.06	357.82	197.60	0.39
Asta 1-2-3	7685.854	tr 50	356.50	20.26	22.58		22.64	0.000936	1.30	351.23	249.67	0.28
Asta 1-2-3	7685.854	tr 100	421.83	20.26	22.78		22.84	0.000907	1.36	400.71	261.97	0.28
Asta 1-2-3	7685.854	tr 200	487.50	20.26	22.96		23.03	0.000876	1.40	449.84	273.45	0.28
Asta 1-2-3	7685.854	tr 500	574.63	20.26	23.19		23.26	0.000840	1.45	514.32	288.48	0.28
Asta 1-2-3	7585.854	tr 50	356.50	20.22	22.50		22.55	0.000858	1.22	366.57	272.73	0.27
Asta 1-2-3	7585.854	tr 100	421.83	20.22	22.69		22.75	0.000823	1.26	422.09	290.45	0.26
Asta 1-2-3	7585.854	tr 200	487.50	20.22	22.88		22.94	0.000787	1.30	478.19	307.87	0.26
Asta 1-2-3	7585.854	tr 500	574.63	20.22	23.12		23.18	0.000733	1.33	552.81	323.37	0.26
Asta 1-2-3	7485.854	tr 50	356.50	20.17	22.40		22.46	0.000990	1.29	340.92	254.41	0.28
Asta 1-2-3	7485.854	tr 100	421.83	20.17	22.60		22.67	0.000923	1.32	394.22	270.80	0.28
Asta 1-2-3	7485.854	tr 200	487.50	20.17	22.79		22.86	0.000864	1.35	447.89	286.35	0.27
Asta 1-2-3	7485.854	tr 500	574.63	20.17	23.03		23.10	0.000797	1.38	519.42	306.53	0.27
Asta 1-2-3	7385.854	tr 50	356.50	20.12	22.24		22.34	0.001544	1.49	287.73	240.76	0.35
Asta 1-2-3	7385.854	tr 100	421.83	20.12	22.46		22.55	0.001339	1.50	342.48	258.20	0.33
Asta 1-2-3	7385.854	tr 200	487.50	20.12	22.67		22.76	0.001191	1.50	397.20	274.51	0.32
Asta 1-2-3	7385.854	tr 500	574.63	20.12	22.92		23.01	0.001047	1.51	469.67	295.32	0.30
Asta 1-2-3	7285.854	tr 50	356.50	20.07	22.22	21.01	22.25	0.000380	0.79	521.93	364.41	0.18
Asta 1-2-3	7285.854	tr 100	421.83	20.07	22.45	21.09	22.47	0.000343	0.80	606.63	388.37	0.17
Asta 1-2-3	7285.854	tr 200	487.50	20.07	22.66	21.17	22.68	0.000316	0.82	690.46	411.42	0.17
Asta 1-2-3	7285.854	tr 500	574.63	20.07	22.92	21.26	22.94	0.000288	0.83	799.76	432.90	0.16
Asta 1-2-3	7240.257	tr 50	356.50	20.05	22.19		22.21	0.000294	0.71	606.48	379.40	0.16
Asta 1-2-3	7240.257	tr 100	421.83	20.05	22.42		22.44	0.000274	0.73	694.41	392.14	0.15
Asta 1-2-3	7240.257	tr 200	487.50	20.05	22.63		22.65	0.000259	0.76	778.45	402.98	0.15
Asta 1-2-3	7240.257	tr 500	574.63	20.05	22.89		22.92	0.000244	0.78	885.07	415.91	0.15
Asta 1-2-3	7185.854	tr 50	356.50	19.99	22.16		22.19	0.000377	0.81	487.76	285.61	0.18
Asta 1-2-3	7185.854	tr 100	421.83	19.99	22.39		22.42	0.000361	0.84	553.86	295.59	0.18
Asta 1-2-3	7185.854	tr 200	487.50	19.99	22.60		22.64	0.000349	0.88	617.11	304.46	0.17
Asta 1-2-3	7185.854	tr 500	574.63	19.99	22.86		22.90	0.000336	0.92	697.52	315.37	0.17
Asta 1-2-3	7085.854	tr 50	356.50	19.64	22.08		22.14	0.000758	1.22	363.54	229.22	0.25
Asta 1-2-3	7085.854	tr 100	421.83	19.64	22.31		22.37	0.000715	1.26	417.70	242.48	0.25
Asta 1-2-3	7085.854	tr 200	487.50	19.64	22.53		22.59	0.000682	1.29	470.45	254.44	0.25
Asta 1-2-3	7085.854	tr 500	574.63	19.64	22.79		22.85	0.000646	1.34	538.69	268.19	0.24
Asta 1-2-3	6985.854	tr 50	356.50	19.63	21.96		22.04	0.001150	1.42	301.55	201.32	0.31
Asta 1-2-3	6985.854	tr 100	421.83	19.63	22.20		22.28	0.001057	1.46	350.44	213.76	0.30
Asta 1-2-3	6985.854	tr 200	487.50	19.63	22.41		22.50	0.000992	1.50	397.99	225.29	0.30
Asta 1-2-3	6985.854	tr 500	574.63	19.63	22.68		22.77	0.000925	1.54	459.66	239.42	0.29
Asta 1-2-3	6885.854	tr 50	356.50	18.28	21.92		21.97	0.000411	1.16	423.38	238.08	0.20
Asta 1-2-3	6885.854	tr 100	421.83	18.28	22.16		22.21	0.000411	1.22	481.56	252.06	0.20
Asta 1-2-3	6885.854	tr 200	487.50	18.28	22.38		22.43	0.000411	1.27	537.97	264.94	0.20
Asta 1-2-3	6885.854	tr 500	574.63	18.28	22.64		22.70	0.000410	1.32	610.97	281.23	0.21
Asta 1-2-3	6785.854	tr 50	356.50	18.01	21.90		21.93	0.000255	0.95	507.25	258.53	0.16
Asta 1-2-3	6785.854	tr 100	421.83	18.01	22.14		22.17	0.000267	1.01	570.49	276.83	0.16
Asta 1-2-3	6785.854	tr 200	487.50	18.01	22.35		22.39	0.000276	1.07	632.64	294.81	0.17
Asta 1-2-3	6785.854	tr 500	574.63	18.01	22.62		22.66	0.000283	1.13	714.32	316.77	0.17
Asta 1-2-3	6684.366	tr 50	356.50	17.72	21.90		21.91	0.000103	0.63	732.14	303.14	0.10
Asta 1-2-3	6684.366	tr 100	421.83	17.72	22.13		22.15	0.000109	0.68	804.90	311.79	0.11
Asta 1-2-3	6684.366	tr 200	487.50	17.72	22.35		22.37	0.000115	0.72	873.57	319.27	0.11
Asta 1-2-3	6684.366	tr 500	574.63	17.72	22.62		22.64	0.000122	0.77	959.91	327.74	0.11
Asta 1-2-3	6638.547	tr 50	356.50	17.63	21.90		21.91	0.000075	0.53	822.06	318.16	0.09
Asta 1-2-3	6638.547	tr 100	421.83	17.63	22.13		22.14	0.000081	0.58	898.27	326.40	0.09
Asta 1-2-3	6638.547	tr 200	487.50	17.63	22.35		22.36	0.000088	0.62	970.14	335.92	0.10
Asta 1-2-3	6638.547	tr 500	574.63	17.63	22.62		22.63	0.000096	0.68	1061.86	352.24	0.10
Asta 1-2-3	6581.278	tr 50	356.50	17.77	21.88		21.90	0.000118	0.62	651.85	289.96	0.11
Asta 1-2-3	6581.278	tr 100	421.83	17.77	22.12		22.14	0.000124	0.67	721.48	301.30	0.11
Asta 1-2-3	6581.278	tr 200	487.50	17.77	22.34		22.36	0.000130	0.71	787.85	311.72	0.12
Asta 1-2-3	6581.278	tr 500	574.63	17.77	22.60		22.63	0.000136	0.76	872.35	324.44	0.12
Asta 1-2-3	6484.649	tr 50	356.50	17.49	21.87		21.89	0.000134	0.75	571.93	212.25	0.12
Asta 1-2-3	6484.649	tr 100	421.83	17.49	22.10		22.12	0.000148	0.82	622.09	218.94	0.13
Asta 1-2-3	6484.649	tr 200	487.50	17.49	22.31		22.34	0.000163	0.89	669.76	228.01	0.13

HEC-RAS Plan: Plan 02 (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	5066.048	tr 50	476.81	9.84	15.68	14.55	16.04	0.003193	3.11	244.80	274.04	0.50
Asta 4	5066.048	tr 100	564.36	9.84	15.81		16.18	0.003421	3.28	279.17	289.07	0.52
Asta 4	5066.048	tr 200	652.38	9.84	15.93		16.31	0.003496	3.39	316.33	304.56	0.53
Asta 4	5066.048	tr 500	769.13	9.84	16.08		16.46	0.003554	3.50	363.28	321.95	0.54
Asta 4	5021.396	tr 50	476.81	14.05	15.51		15.81	0.008226	3.01	209.45	260.61	0.83
Asta 4	5021.396	tr 100	564.36	14.05	15.64		15.95	0.007464	3.05	244.76	276.45	0.80
Asta 4	5021.396	tr 200	652.38	14.05	15.78		16.08	0.006850	3.09	282.57	297.91	0.78
Asta 4	5021.396	tr 500	769.13	14.05	15.93		16.24	0.006270	3.14	330.23	320.54	0.76
Asta 4	4916.999	tr 50	476.81	12.60	14.41	14.41	14.92	0.008612	3.82	169.71	167.54	0.93
Asta 4	4916.999	tr 100	564.36	12.60	14.55	14.55	15.09	0.008580	4.01	193.13	175.61	0.94
Asta 4	4916.999	tr 200	652.38	12.60	14.67	14.67	15.26	0.008616	4.19	215.06	182.89	0.95
Asta 4	4916.999	tr 500	769.13	12.60	14.83	14.83	15.46	0.008435	4.37	245.18	192.44	0.95
Asta 4	4821.104	tr 50	476.81	11.39	13.58	13.34	13.94	0.004490	3.04	196.93	159.51	0.69
Asta 4	4821.104	tr 100	564.36	11.39	13.83	13.49	14.17	0.003842	3.03	238.07	178.14	0.65
Asta 4	4821.104	tr 200	652.38	11.39	14.05	13.61	14.38	0.003351	3.02	280.47	194.89	0.61
Asta 4	4821.104	tr 500	769.13	11.39	14.34	13.80	14.65	0.002853	3.00	338.73	215.43	0.58
Asta 4	4684.26	tr 50	476.81	9.87	12.74		13.24	0.005618	3.51	163.98	90.09	0.68
Asta 4	4684.26	tr 100	564.36	9.87	12.90		13.48	0.006232	3.83	178.22	93.53	0.72
Asta 4	4684.26	tr 200	652.38	9.87	13.03		13.71	0.006851	4.15	191.07	96.48	0.76
Asta 4	4684.26	tr 500	769.13	9.87	13.18	13.00	14.00	0.007753	4.56	205.75	99.96	0.82
Asta 4	4594.056	tr 50	476.81	9.94	12.59		12.81	0.002760	2.37	244.98	152.42	0.48
Asta 4	4594.056	tr 100	564.36	9.94	12.76		13.02	0.002878	2.53	272.25	159.54	0.50
Asta 4	4594.056	tr 200	652.38	9.94	12.92		13.20	0.002990	2.69	297.99	165.98	0.51
Asta 4	4594.056	tr 500	769.13	9.94	13.10		13.43	0.003148	2.88	329.32	173.50	0.53
Asta 4	4485.467	tr 50	476.81	9.95	12.03		12.39	0.005506	3.00	193.53	157.33	0.69
Asta 4	4485.467	tr 100	564.36	9.95	12.18		12.58	0.005627	3.19	217.87	168.63	0.71
Asta 4	4485.467	tr 200	652.38	9.95	12.32		12.75	0.005682	3.35	242.45	180.07	0.72
Asta 4	4485.467	tr 500	769.13	9.95	12.51		12.97	0.005516	3.49	278.09	194.93	0.72
Asta 4	4395.042	tr 50	476.81	9.95	11.87		12.01	0.002362	1.88	300.84	248.10	0.45
Asta 4	4395.042	tr 100	564.36	9.95	12.05		12.20	0.002205	1.94	347.45	261.67	0.44
Asta 4	4395.042	tr 200	652.38	9.95	12.22		12.38	0.002096	2.00	392.30	274.62	0.43
Asta 4	4395.042	tr 500	769.13	9.95	12.44		12.61	0.001923	2.04	456.00	294.16	0.42
Asta 4	4212.491	tr 50	476.81	9.83	11.67	10.84	11.73	0.000915	1.25	469.18	382.94	0.30
Asta 4	4212.491	tr 100	564.36	9.83	11.89	10.93	11.95	0.000793	1.26	553.68	402.09	0.29
Asta 4	4212.491	tr 200	652.38	9.83	12.08	11.01	12.13	0.000733	1.29	630.97	424.24	0.28
Asta 4	4212.491	tr 500	769.13	9.83	12.32	11.11	12.38	0.000646	1.30	739.23	447.91	0.27
Asta 4	4030.342	tr 50	476.81	9.50	11.58		11.61	0.000473	0.97	680.50	599.92	0.22
Asta 4	4030.342	tr 100	564.36	9.50	11.81		11.84	0.000379	0.94	824.60	616.69	0.20
Asta 4	4030.342	tr 200	652.38	9.50	12.01		12.04	0.000337	0.94	947.28	630.10	0.19
Asta 4	4030.342	tr 500	769.13	9.50	12.27		12.30	0.000289	0.93	1114.30	647.91	0.18
Asta 4	3904.306	tr 50	476.81	9.71	11.49		11.53	0.000804	1.02	560.08	448.15	0.26
Asta 4	3904.306	tr 100	564.36	9.71	11.74		11.78	0.000625	0.99	674.13	456.46	0.23
Asta 4	3904.306	tr 200	652.38	9.71	11.95		11.98	0.000555	1.00	767.18	463.82	0.22
Asta 4	3904.306	tr 500	769.13	9.71	12.21		12.25	0.000478	1.00	892.50	473.15	0.21
Asta 4	3859.866	tr 50	476.81	9.55	11.45	10.73	11.49	0.000789	1.13	561.95	453.64	0.27
Asta 4	3859.866	tr 100	564.36	9.55	11.72	10.79	11.75	0.000603	1.08	681.91	464.05	0.24
Asta 4	3859.866	tr 200	652.38	9.55	11.92	10.85	11.96	0.000534	1.09	778.25	472.24	0.23
Asta 4	3859.866	tr 500	769.13	9.55	12.19	10.92	12.23	0.000460	1.09	907.78	483.64	0.22
Asta 4	3727.796	tr 50	476.81	8.51	11.42		11.44	0.000214	0.78	900.94	577.34	0.15
Asta 4	3727.796	tr 100	564.36	8.51	11.69		11.71	0.000185	0.77	1058.12	594.50	0.14
Asta 4	3727.796	tr 200	652.38	8.51	11.90		11.92	0.000177	0.79	1183.41	607.09	0.14
Asta 4	3727.796	tr 500	769.13	8.51	12.17		12.19	0.000164	0.80	1352.26	623.04	0.13
Asta 4	3662.587	tr 50	476.81	7.86	11.40		11.42	0.000225	0.86	786.78	442.69	0.15
Asta 4	3662.587	tr 100	564.36	7.86	11.67		11.69	0.000213	0.88	908.72	471.28	0.15
Asta 4	3662.587	tr 200	652.38	7.86	11.88		11.90	0.000215	0.92	1009.67	497.39	0.15
Asta 4	3662.587	tr 500	769.13	7.86	12.15		12.18	0.000209	0.95	1149.61	522.35	0.15
Asta 4	3580.977	tr 50	476.81	8.11	11.39		11.41	0.000187	0.74	1012.63	696.37	0.13
Asta 4	3580.977	tr 100	564.36	8.11	11.66		11.68	0.000170	0.75	1207.49	742.95	0.13
Asta 4	3580.977	tr 200	652.38	8.11	11.87		11.88	0.000170	0.77	1367.52	792.36	0.13
Asta 4	3580.977	tr 500	769.13	8.11	12.14		12.16	0.000157	0.78	1591.83	829.41	0.13
Asta 5	3290.571	tr 50	505.34	6.18	11.40		11.40	0.000048	0.32	1598.52	599.31	0.05
Asta 5	3290.571	tr 100	598.15	6.18	11.67		11.67	0.000050	0.34	1763.15	622.02	0.05
Asta 5	3290.571	tr 200	691.46	6.18	11.87		11.88	0.000055	0.36	1894.55	640.34	0.05
Asta 5	3290.571	tr 500	815.24	6.18	12.15		12.16	0.000059	0.39	2074.58	666.44	0.05

HEC-RAS Plan: Plan 02 (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 5	2136.69	tr 50	505.34	1.60	6.35	5.62	6.44	0.001311	1.92	408.06	275.70	0.33
Asta 5	2136.69	tr 100	598.15	1.60	6.54	5.73	6.64	0.001277	1.96	461.22	280.10	0.33
Asta 5	2136.69	tr 200	691.46	1.60	6.72	5.76	6.82	0.001261	2.01	510.33	284.07	0.33
Asta 5	2136.69	tr 500	815.24	1.60	6.93	5.98	7.05	0.001243	2.07	572.12	288.89	0.33
Asta 5	2074.004	tr 50	505.34	3.16	6.18		6.34	0.001920	2.20	317.00	221.34	0.42
Asta 5	2074.004	tr 100	598.15	3.16	6.36		6.54	0.001932	2.30	359.33	230.84	0.42
Asta 5	2074.004	tr 200	691.46	3.16	6.54		6.72	0.001884	2.36	400.83	247.35	0.42
Asta 5	2074.004	tr 500	815.24	3.16	6.76		6.95	0.001809	2.42	456.18	255.89	0.42
Asta 5	2020.476	tr 50	505.34	3.44	6.05		6.23	0.002321	2.17	286.13	170.34	0.45
Asta 5	2020.476	tr 100	598.15	3.44	6.22		6.42	0.002399	2.31	315.06	171.68	0.46
Asta 5	2020.476	tr 200	691.46	3.44	6.38		6.60	0.002474	2.44	341.93	172.86	0.48
Asta 5	2020.476	tr 500	815.24	3.44	6.57		6.83	0.002559	2.60	375.35	174.22	0.49
Asta 5	1932	tr 50	505.34	3.27	5.78	5.23	5.99	0.003111	2.56	259.00	165.16	0.52
Asta 5	1932	tr 100	598.15	3.27	5.94	5.35	6.17	0.003249	2.73	284.42	167.07	0.54
Asta 5	1932	tr 200	691.46	3.27	6.08	5.45	6.34	0.003386	2.88	307.86	168.66	0.55
Asta 5	1932	tr 500	815.24	3.27	6.25	5.61	6.56	0.003530	3.06	337.30	170.35	0.57
Asta 5	1834.316	tr 50	508.14	3.02	4.88	4.88	5.44	0.010782	3.53	167.50	161.99	0.89
Asta 5	1834.316	tr 100	600.21	3.02	5.05	5.05	5.62	0.009943	3.63	196.29	176.24	0.87
Asta 5	1834.316	tr 200	692.70	3.02	5.20	5.20	5.79	0.009467	3.73	222.83	186.10	0.86
Asta 5	1834.316	tr 500	815.27	3.02	5.35	5.35	5.99	0.009403	3.92	251.97	193.80	0.87
Asta 5	1737.41	tr 50	508.14	1.05	4.27	2.67	4.35	0.000668	1.33	438.31	207.50	0.25
Asta 5	1737.41	tr 100	600.21	1.05	4.49	2.82	4.58	0.000703	1.43	485.11	216.22	0.26
Asta 5	1737.41	tr 200	692.70	1.05	4.69	2.96	4.79	0.000731	1.52	530.39	224.34	0.26
Asta 5	1737.41	tr 500	815.27	1.05	4.94	3.13	5.06	0.000764	1.63	587.21	234.15	0.27
Asta 5	1662.837	tr 50	508.14	0.51	4.26	2.15	4.30	0.000334	1.08	584.08	244.41	0.18
Asta 5	1662.837	tr 100	600.21	0.51	4.48	2.30	4.53	0.000363	1.17	639.13	253.31	0.19
Asta 5	1662.837	tr 200	692.70	0.51	4.68	2.44	4.74	0.000388	1.25	692.21	262.47	0.20
Asta 5	1662.837	tr 500	815.27	0.51	4.93	2.63	5.00	0.000419	1.35	758.81	273.91	0.21
Asta 5	1591.515	tr 50	508.14	0.70	4.24		4.28	0.000260	0.85	694.76	368.14	0.15
Asta 5	1591.515	tr 100	600.21	0.70	4.47		4.50	0.000269	0.90	782.91	424.00	0.16
Asta 5	1591.515	tr 200	692.70	0.70	4.67		4.71	0.000278	0.96	873.62	442.24	0.16
Asta 5	1591.515	tr 500	815.27	0.70	4.93		4.97	0.000279	1.00	985.81	447.49	0.17
Asta 5	1508.89	tr 50	508.14	0.85	4.23		4.25	0.000198	0.70	861.77	442.94	0.13
Asta 5	1508.89	tr 100	600.21	0.85	4.46		4.48	0.000205	0.75	963.76	471.85	0.14
Asta 5	1508.89	tr 200	692.70	0.85	4.66		4.69	0.000213	0.80	1065.59	511.07	0.14
Asta 5	1508.89	tr 500	815.27	0.85	4.92		4.94	0.000212	0.84	1196.94	526.97	0.14
Asta 5	1426.933	tr 50	508.14	0.31	4.23	1.69	4.24	0.000111	0.60	937.05	334.94	0.10
Asta 5	1426.933	tr 100	600.21	0.31	4.45	1.79	4.47	0.000122	0.66	1011.70	339.41	0.11
Asta 5	1426.933	tr 200	692.70	0.31	4.65	1.89	4.68	0.000133	0.71	1082.11	344.96	0.12
Asta 5	1426.933	tr 500	815.27	0.31	4.90	2.01	4.93	0.000156	0.80	1170.37	386.71	0.13
Asta 5	1341.355	tr 50	508.14	0.03	4.21	1.40	4.23	0.000124	0.68	816.56	278.57	0.11
Asta 5	1341.355	tr 100	600.21	0.03	4.43	1.52	4.45	0.000139	0.75	877.86	281.42	0.12
Asta 5	1341.355	tr 200	692.70	0.03	4.63	1.63	4.66	0.000152	0.81	935.45	284.13	0.13
Asta 5	1341.355	tr 500	815.27	0.03	4.88	1.78	4.91	0.000169	0.89	1006.00	287.49	0.13
Asta 5	1273.128	tr 50	508.14	0.69	4.19	2.04	4.22	0.000229	0.83	656.48	243.39	0.15
Asta 5	1273.128	tr 100	600.21	0.69	4.40	2.15	4.44	0.000251	0.91	709.26	246.02	0.16
Asta 5	1273.128	tr 200	692.70	0.69	4.60	2.26	4.65	0.000271	0.98	758.85	248.49	0.16
Asta 5	1273.128	tr 500	815.27	0.69	4.85	2.39	4.90	0.000295	1.07	819.54	251.25	0.17
Asta 5	1169.528	tr 50	508.14	1.39	4.06	3.04	4.16	0.001341	1.73	368.50	207.73	0.34
Asta 5	1169.528	tr 100	600.21	1.39	4.27	3.16	4.38	0.001352	1.83	412.06	215.04	0.35
Asta 5	1169.528	tr 200	692.70	1.39	4.46	3.27	4.59	0.001363	1.92	454.03	222.61	0.35
Asta 5	1169.528	tr 500	815.27	1.39	4.69	3.42	4.83	0.001377	2.03	506.90	231.57	0.36
Asta 5	1080.263	tr 50	508.14	1.55	3.63		3.94	0.004655	2.59	219.00	160.90	0.60
Asta 5	1080.263	tr 100	600.21	1.55	3.83		4.16	0.004337	2.68	252.88	169.08	0.59
Asta 5	1080.263	tr 200	692.70	1.55	4.02		4.37	0.004092	2.76	285.90	176.31	0.59
Asta 5	1080.263	tr 500	815.27	1.55	4.26		4.62	0.003858	2.86	327.32	183.20	0.58
Asta 5	897.1031	tr 50	508.14	0.00	3.72		3.75	0.000206	0.90	619.97	225.52	0.16
Asta 5	897.1031	tr 100	600.21	0.00	3.92		3.96	0.000233	1.00	666.02	229.75	0.17
Asta 5	897.1031	tr 200	692.70	0.00	4.11		4.16	0.000257	1.08	709.65	233.63	0.18
Asta 5	897.1031	tr 500	815.27	0.00	4.34		4.40	0.000287	1.19	763.27	238.59	0.19
Asta 5	788.1014	tr 50	508.14	-0.90	3.70		3.73	0.000148	0.93	655.70	211.96	0.14
Asta 5	788.1014	tr 100	600.21	-0.90	3.90		3.94	0.000173	1.04	698.39	216.31	0.15
Asta 5	788.1014	tr 200	692.70	-0.90	4.09		4.14	0.000196	1.13	738.94	220.94	0.17

HEC-RAS Plan: Plan 02 (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 5	788.1014	tr 500	815.27	-0.90	4.31		4.37	0.000225	1.25	788.97	226.45	0.18
Asta 5	649.996	tr 50	508.14	1.09	3.49	2.69	3.67	0.001852	2.07	282.78	167.96	0.44
Asta 5	649.996	tr 100	600.21	1.09	3.66	2.84	3.87	0.001940	2.23	312.03	172.59	0.46
Asta 5	649.996	tr 200	692.70	1.09	3.82	2.98	4.05	0.002012	2.36	339.96	176.66	0.47
Asta 5	649.996	tr 500	815.27	1.09	4.01	3.14	4.28	0.002107	2.54	374.06	181.23	0.49
Asta 5	488.7593	tr 50	508.14	1.04	3.32		3.41	0.001172	1.38	414.61	284.96	0.31
Asta 5	488.7593	tr 100	600.21	1.04	3.50		3.60	0.001160	1.45	467.25	295.69	0.31
Asta 5	488.7593	tr 200	692.70	1.04	3.67		3.77	0.001146	1.52	518.49	305.73	0.31
Asta 5	488.7593	tr 500	815.27	1.04	3.88		3.99	0.001136	1.60	581.85	315.79	0.32
Asta 5	377.6013	tr 50	508.14	0.75	3.17		3.26	0.001399	1.52	397.05	292.86	0.34
Asta 5	377.6013	tr 100	600.21	0.75	3.35		3.45	0.001356	1.58	453.40	312.26	0.34
Asta 5	377.6013	tr 200	692.70	0.75	3.53		3.64	0.001284	1.62	509.99	320.36	0.33
Asta 5	377.6013	tr 500	815.27	0.75	3.74		3.85	0.001230	1.67	578.38	328.68	0.33
Asta 5	300.1948	tr 50	508.14	0.63	3.08	2.20	3.16	0.001206	1.44	437.29	324.93	0.31
Asta 5	300.1948	tr 100	600.21	0.63	3.27	2.31	3.35	0.001122	1.47	501.22	335.48	0.31
Asta 5	300.1948	tr 200	692.70	0.63	3.46	2.41	3.54	0.001050	1.50	564.12	343.79	0.30
Asta 5	300.1948	tr 500	815.27	0.63	3.67	2.59	3.76	0.001000	1.55	639.24	353.63	0.30
Asta 5	220.3344	tr 50	508.14	0.52	2.90	2.09	3.03	0.001815	1.76	331.74	221.75	0.39
Asta 5	220.3344	tr 100	600.21	0.52	3.09	2.22	3.24	0.001792	1.85	374.40	231.38	0.39
Asta 5	220.3344	tr 200	692.70	0.52	3.27	2.36	3.43	0.001752	1.93	417.39	240.77	0.39
Asta 5	220.3344	tr 500	815.27	0.52	3.48	2.51	3.65	0.001757	2.03	468.35	253.53	0.39
Asta 5	121.8444	tr 50	508.14	0.40	2.22	2.09	2.67	0.008340	3.11	179.27	151.63	0.79
Asta 5	121.8444	tr 100	600.21	0.40	2.31	2.24	2.85	0.009526	3.44	192.19	155.53	0.86
Asta 5	121.8444	tr 200	692.70	0.40	2.38	2.38	3.03	0.010795	3.76	203.33	158.82	0.92
Asta 5	121.8444	tr 500	815.27	0.40	2.54	2.54	3.25	0.010467	3.94	230.40	166.51	0.92
Asta 5	38.38481	tr 50	508.14	0.31	1.52	1.52	1.83	0.011135	2.67	228.61	366.99	0.84
Asta 5	38.38481	tr 100	600.21	0.31	1.60	1.60	1.94	0.010982	2.79	260.13	380.76	0.85
Asta 5	38.38481	tr 200	692.70	0.31	1.68	1.68	2.03	0.010920	2.91	289.37	391.11	0.86
Asta 5	38.38481	tr 500	815.27	0.31	1.70	1.77	2.17	0.014277	3.36	295.50	393.24	0.98

COMUNE DI ALGHERO

VARIANTE AL PAI, ex art. 37 comma 3 delle NTA del PAI a seguito di Studio di Assetto idraulico e geologico del territorio comunale ai sensi dell'art.8 comma 2 delle N.A. del PAI

Area di indagine: **TERRITORIO COMUNALE**

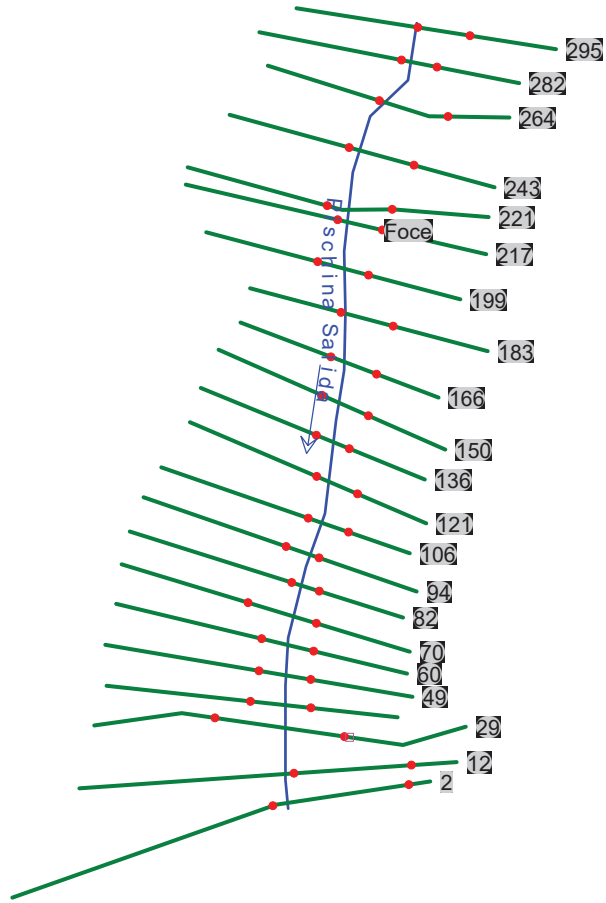
SIMULAZIONI IN MOTO PERMANENTE

Modello 1 – Pischina Salida

- Schema planimetrico del modello matematico;
- Profili longitudinali con livelli idrici per i tempi di ritorno 50, 100, 200 e 500 anni;
- Sezioni trasversali con livelli idrici per i tempi di ritorno 50, 100, 200 e 500 anni;
- Tabulati numerici di output per i tempi di ritorno 50, 100, 200 e 500 anni;

River	Reach	RS	PORTATE mc/s			
			tr 50	tr 100	tr 200	tr 500
Pischina Salida	foce	295	12,68	14,802	16,964	19,954

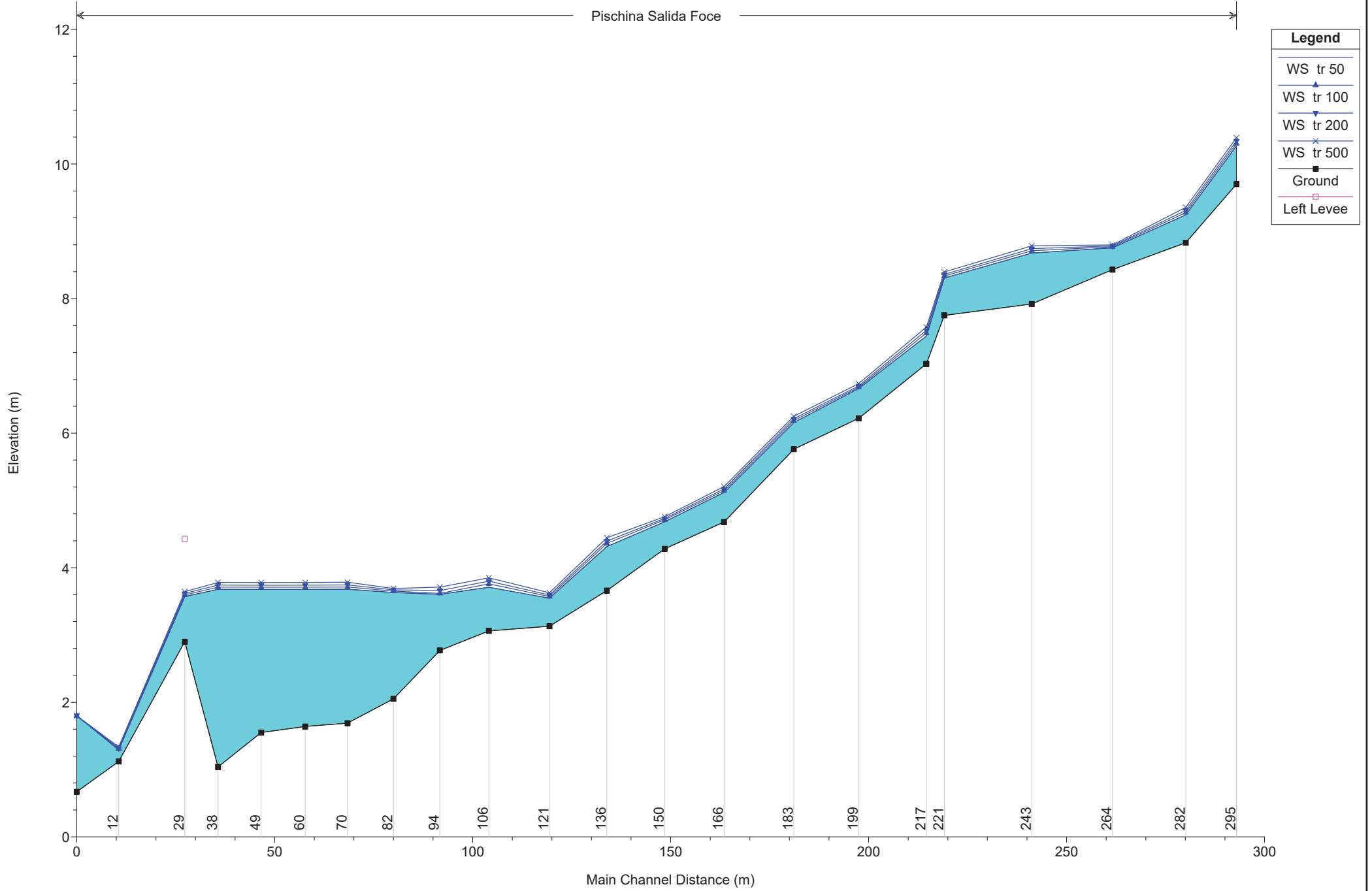
River	Reach	PROFILI	condizioni al contorno	
			upstream	downstream
Pischina Salida	foce	all	Critical Depth	Known WS



PISCHINA_SALIDA Plan: tempi pai 12/12/2022

Geom: Pischina Salida

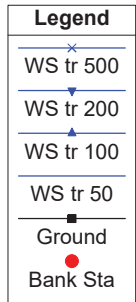
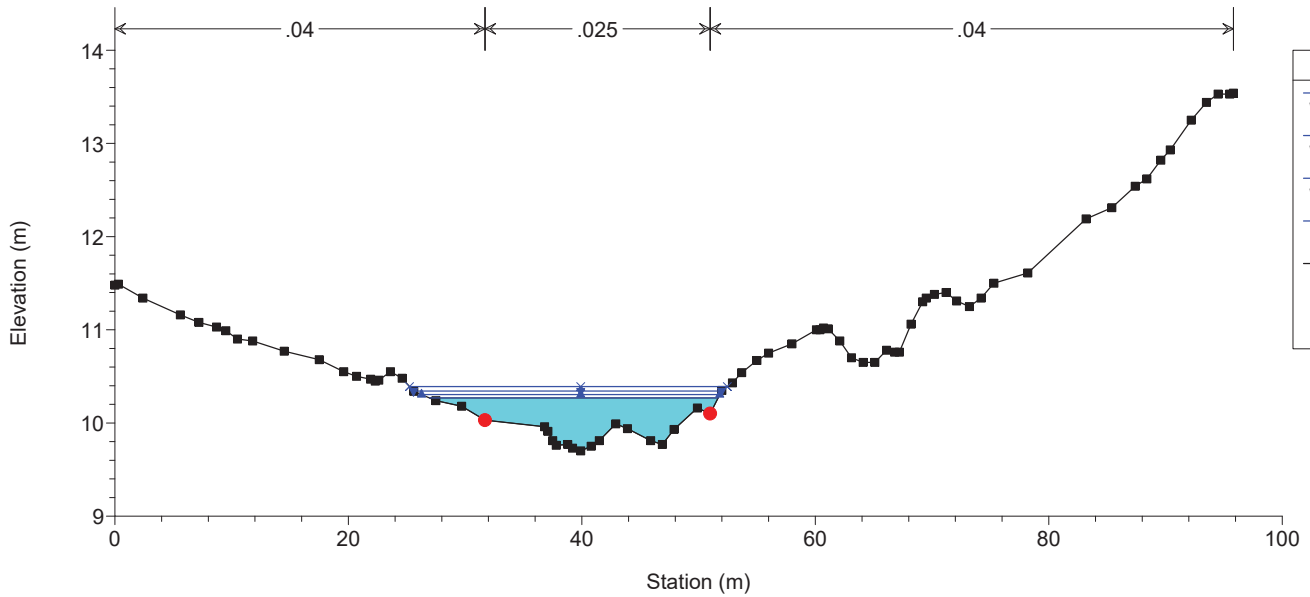
Pischina Salida Foce



PISCHINA_SALIDA Plan: tempi pai 12/12/2022

Geom: Pischina Salida

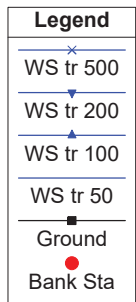
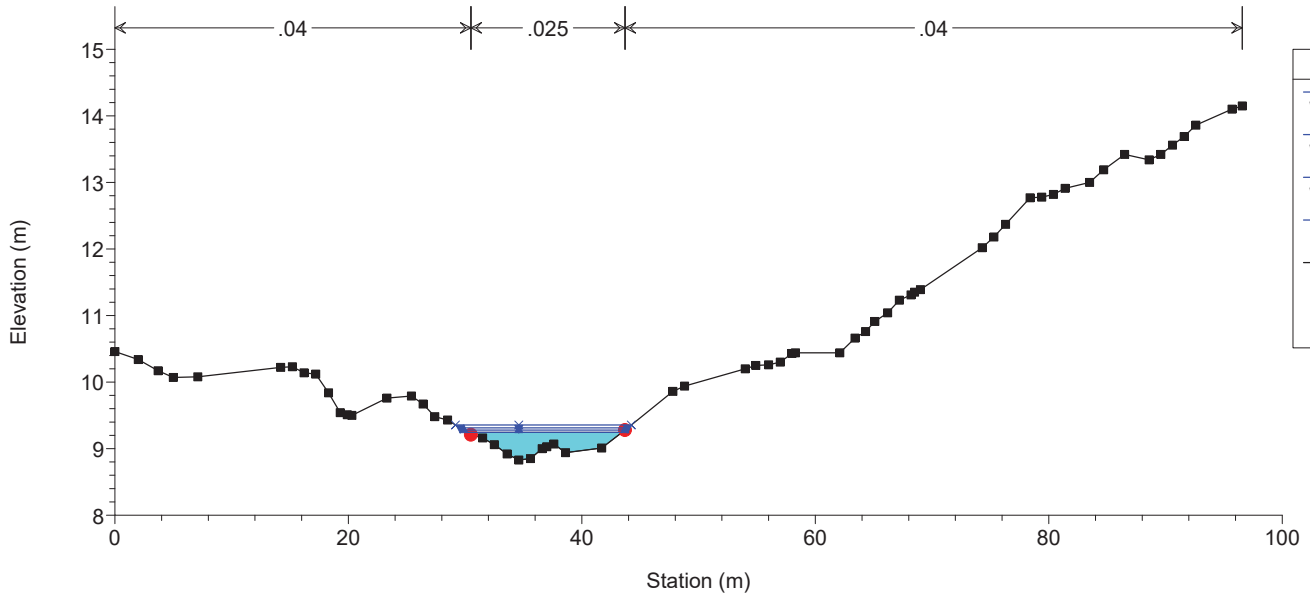
River = Pischina Salida Reach = Foce RS = 295



PISCHINA_SALIDA Plan: tempi pai 12/12/2022

Geom: Pischina Salida

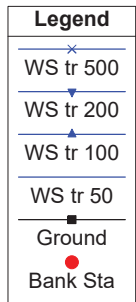
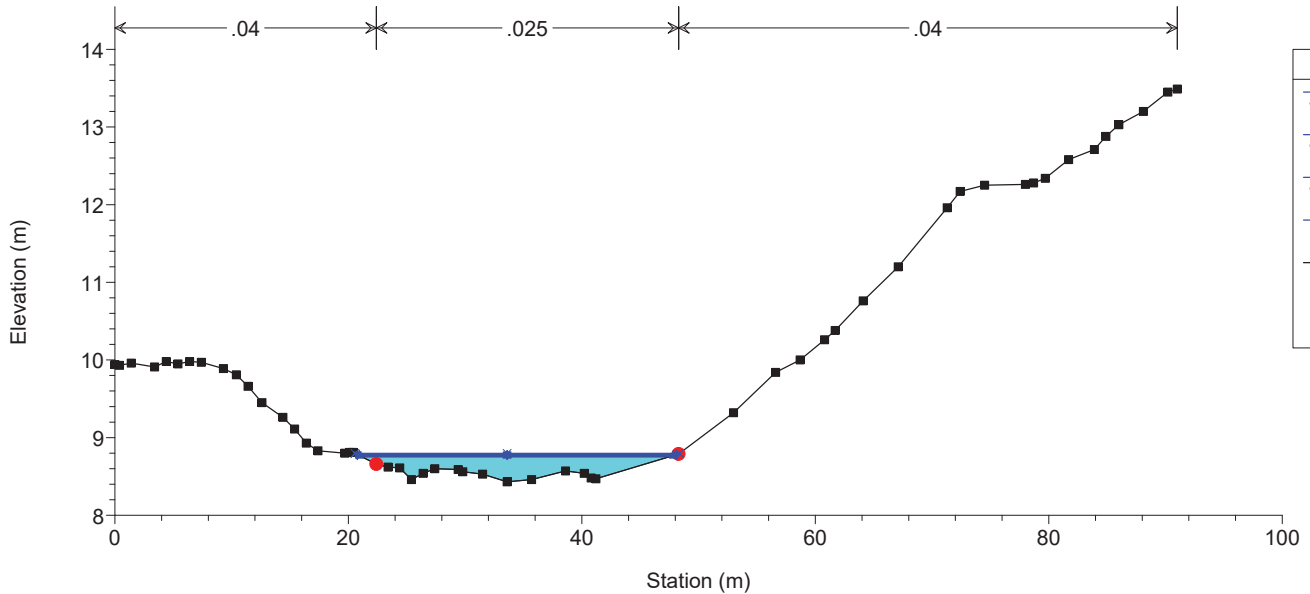
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PISCHINA_SALIDA Plan: tempi pai 12/12/2022

Geom: Pischina Salida

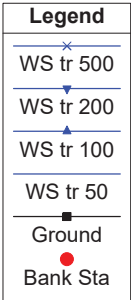
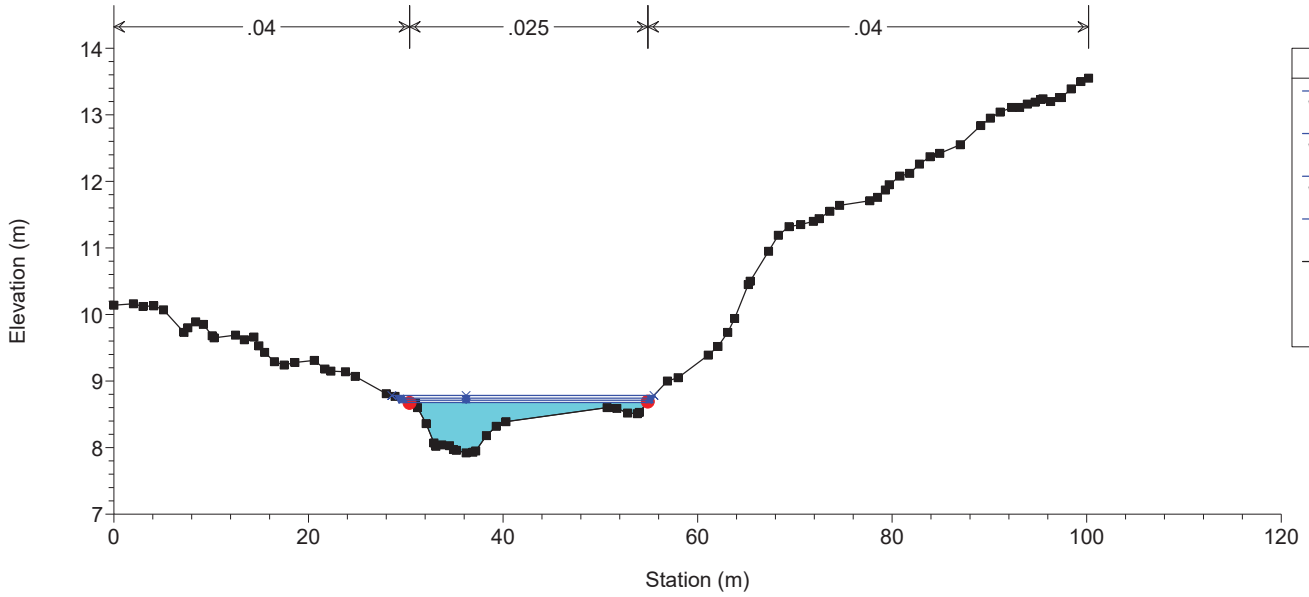
River = Pischina Salida Reach = Foce RS = 264



PISCHINA_SALIDA Plan: tempi pai 12/12/2022

Geom: Pischina Salida

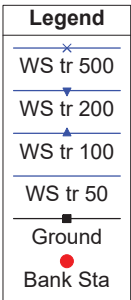
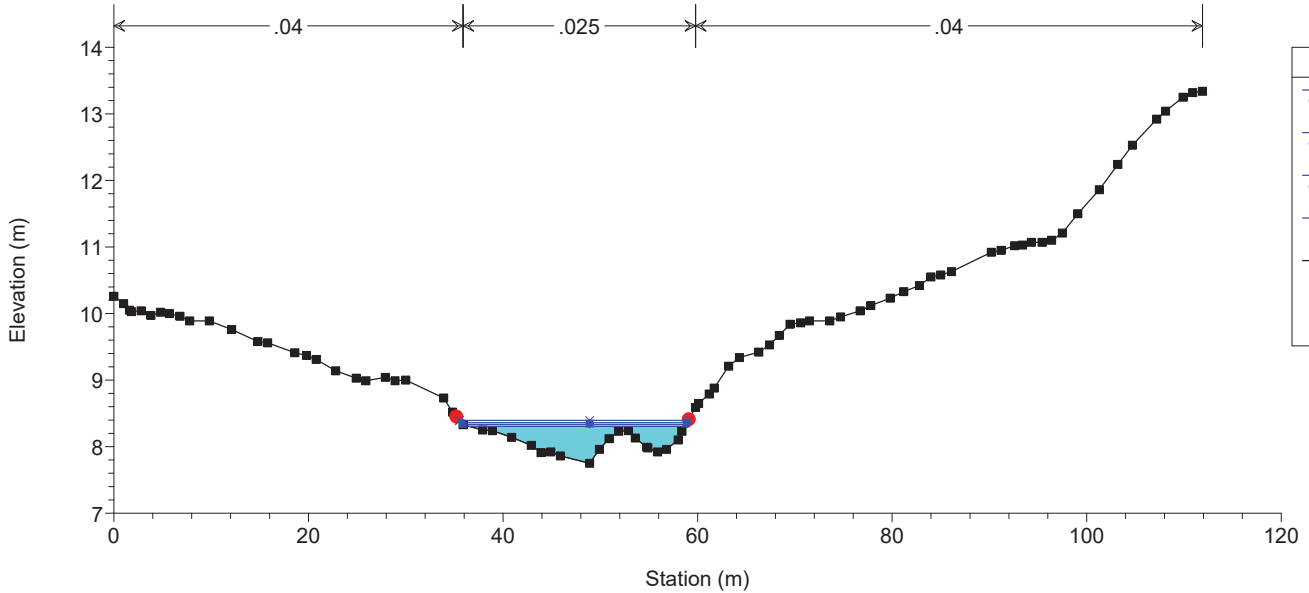
River = Pischina Salida Reach = Foce RS = 243



PISCHINA_SALIDA Plan: tempi pai 12/12/2022

Geom: Pischina Salida

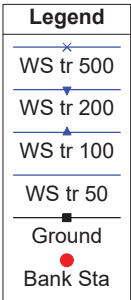
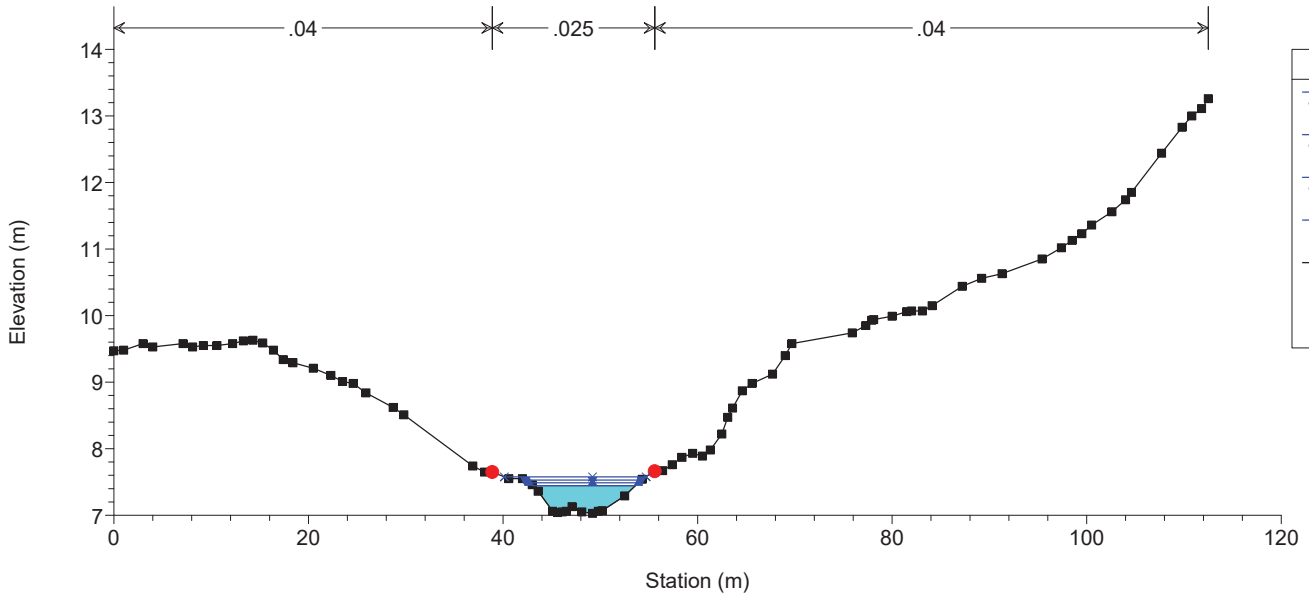
River = Pischina Salida Reach = Foce RS = 221



PISCHINA_SALIDA Plan: tempi pai 12/12/2022

Geom: Pischina Salida

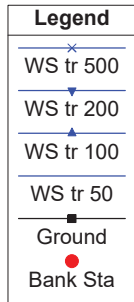
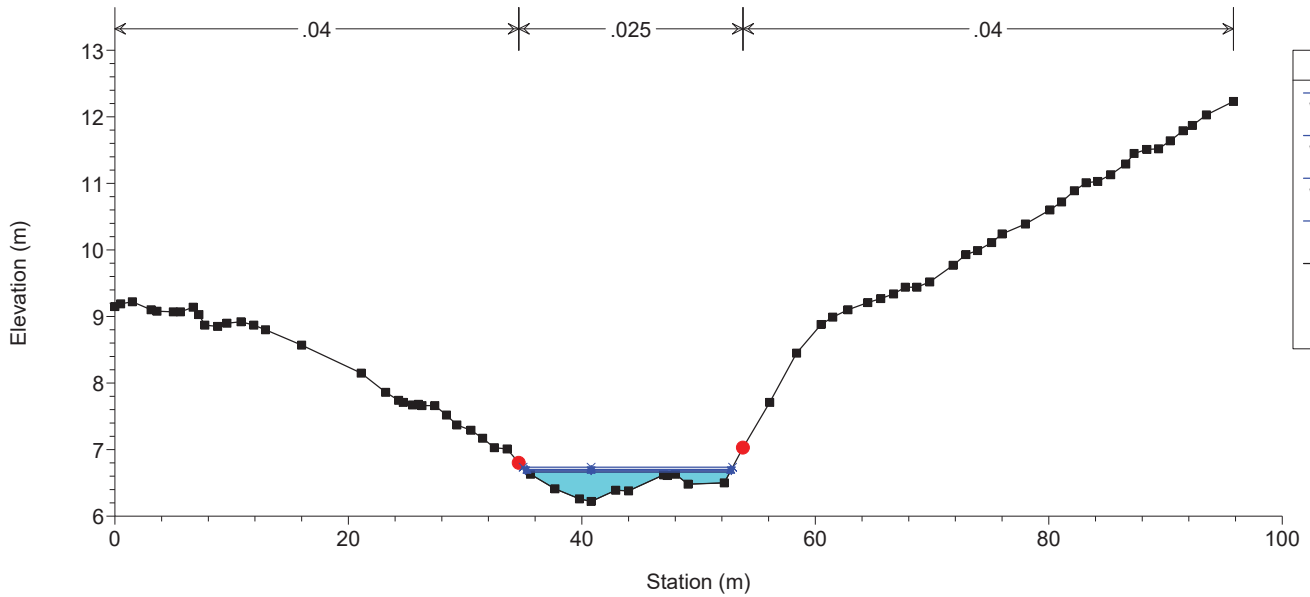
River = Pischina Salida Reach = Foce RS = 217



PISCHINA_SALIDA Plan: tempi pai 12/12/2022

Geom: Pischina Salida

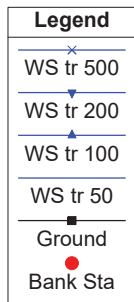
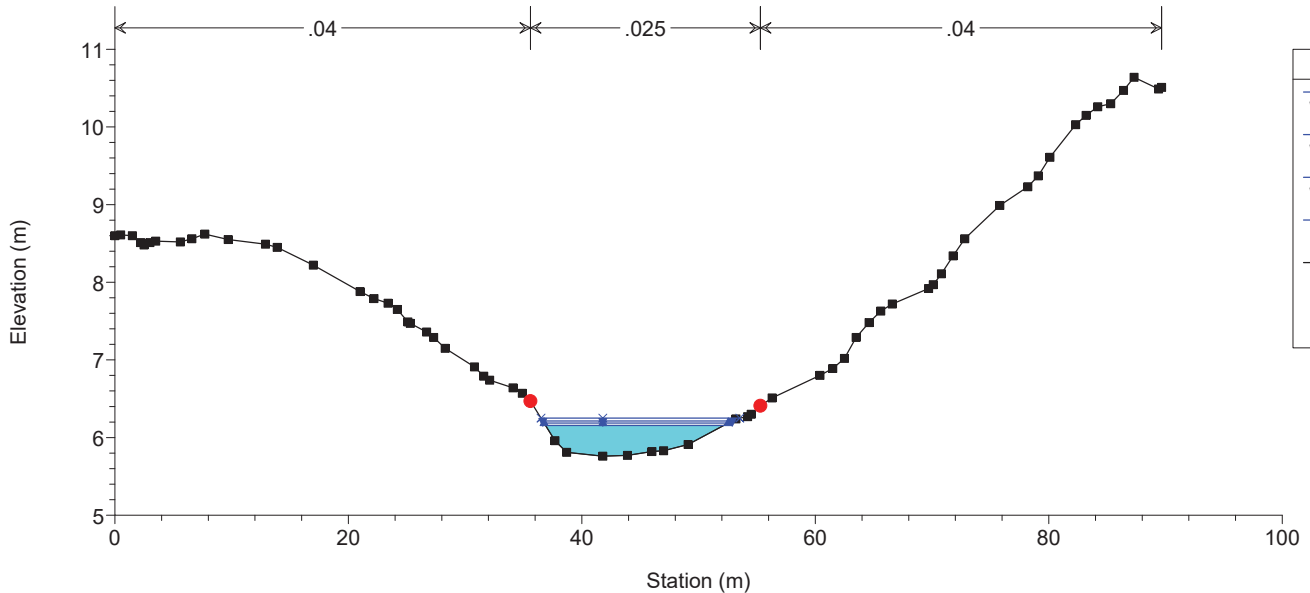
River = Pischina Salida Reach = Foce RS = 199



PISCHINA_SALIDA Plan: tempi pai 12/12/2022

Geom: Pischina Salida

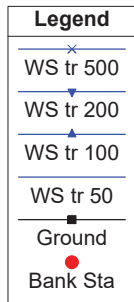
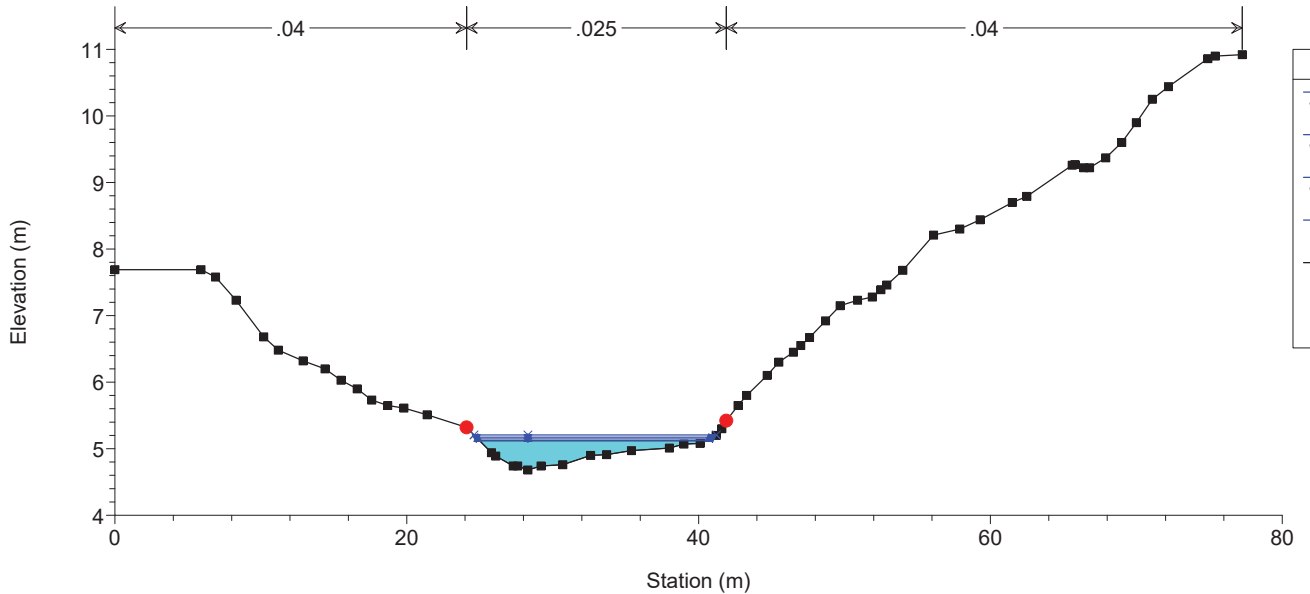
River = Pischina Salida Reach = Foce RS = 183



PISCHINA_SALIDA Plan: tempi pai 12/12/2022

Geom: Pischina Salida

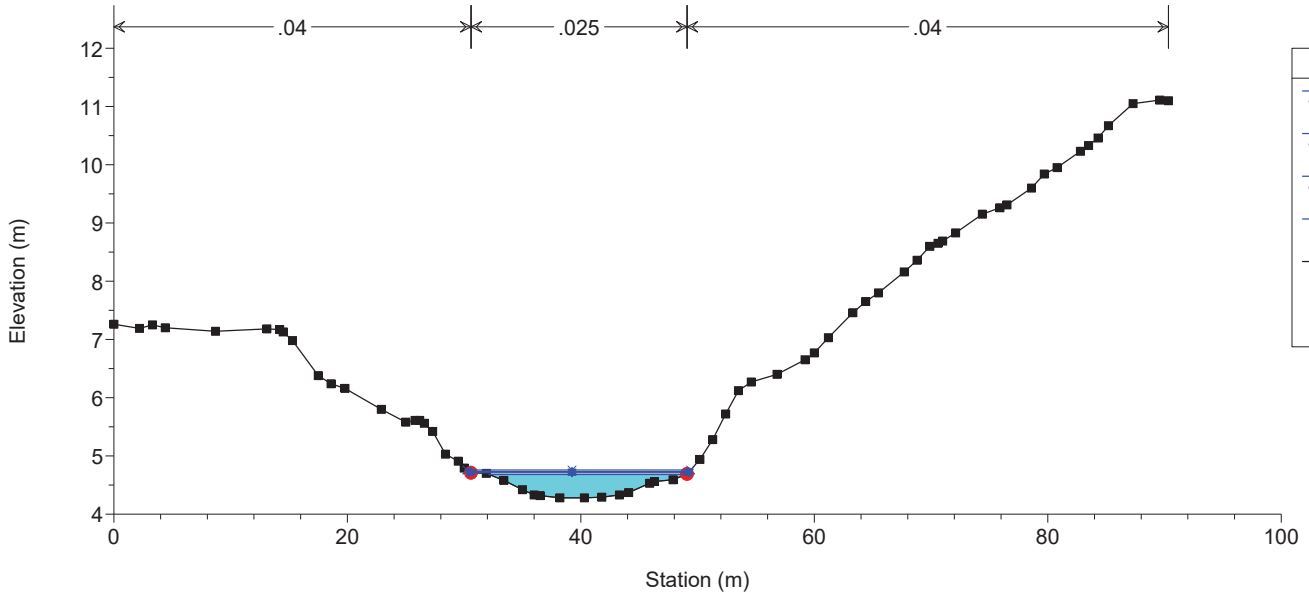
River = Pischina Salida Reach = Foce RS = 166



PISCHINA_SALIDA Plan: tempi pai 12/12/2022

Geom: Pischina Salida

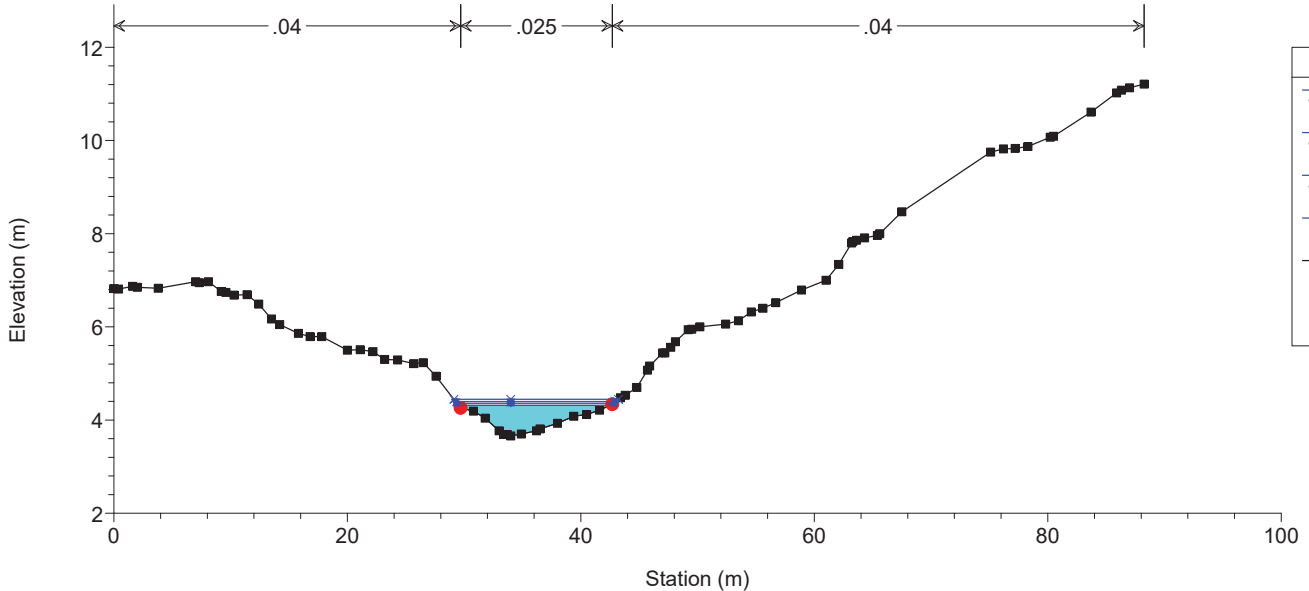
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PISCHINA_SALIDA Plan: tempi pai 12/12/2022

Geom: Pischina Salida

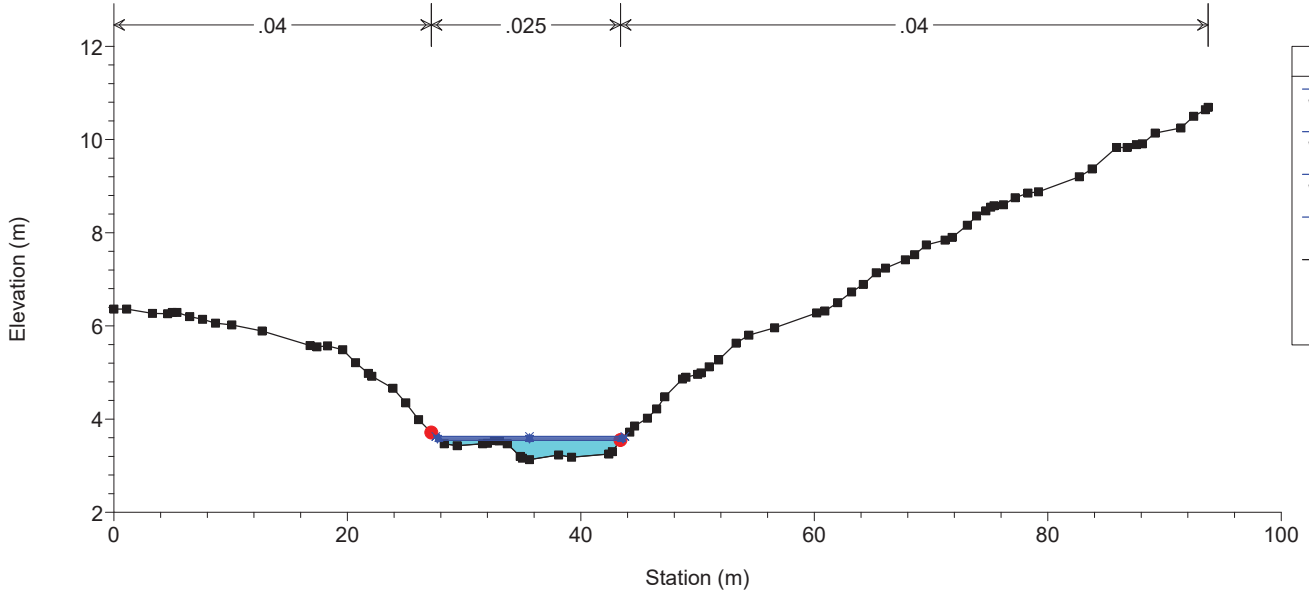
River = Pischina Salida Reach = Foce RS = 136



PISCHINA_SALIDA Plan: tempi pai 12/12/2022

Geom: Pischina Salida

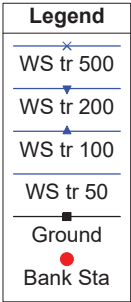
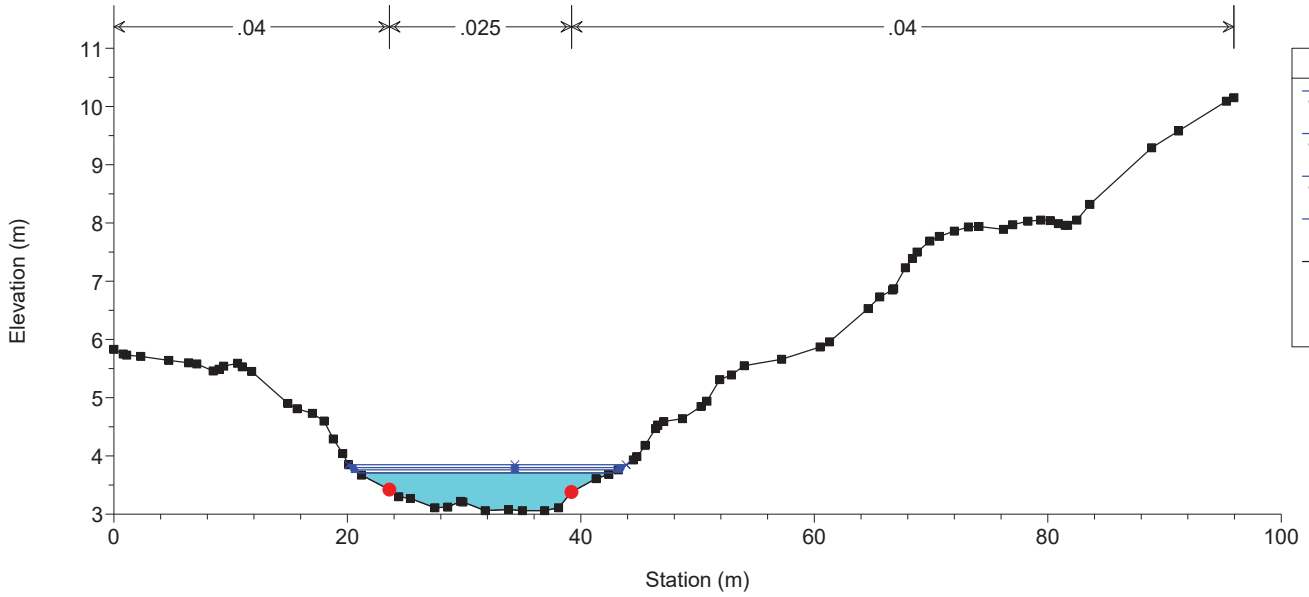
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PISCHINA_SALIDA Plan: tempi pai 12/12/2022

Geom: Pischina Salida

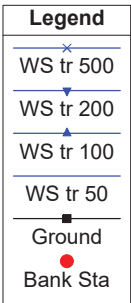
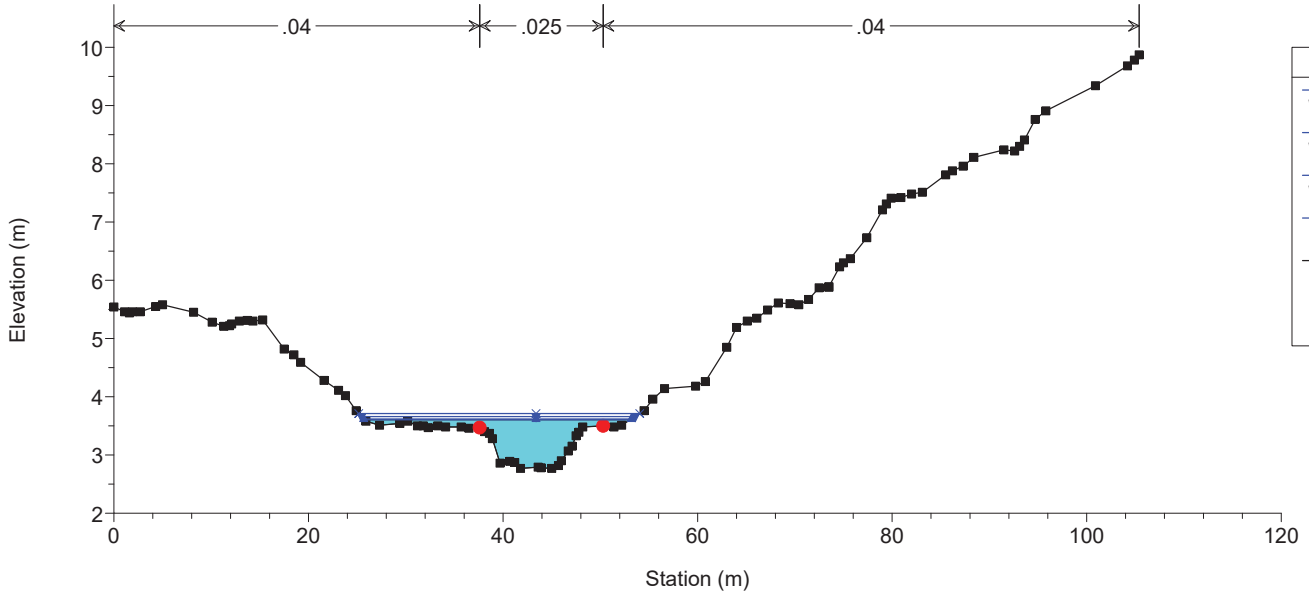
River = Pischina Salida Reach = Foce RS = 106



PISCHINA_SALIDA Plan: tempi pai 12/12/2022

Geom: Pischina Salida

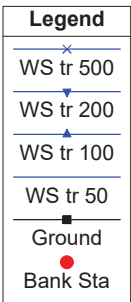
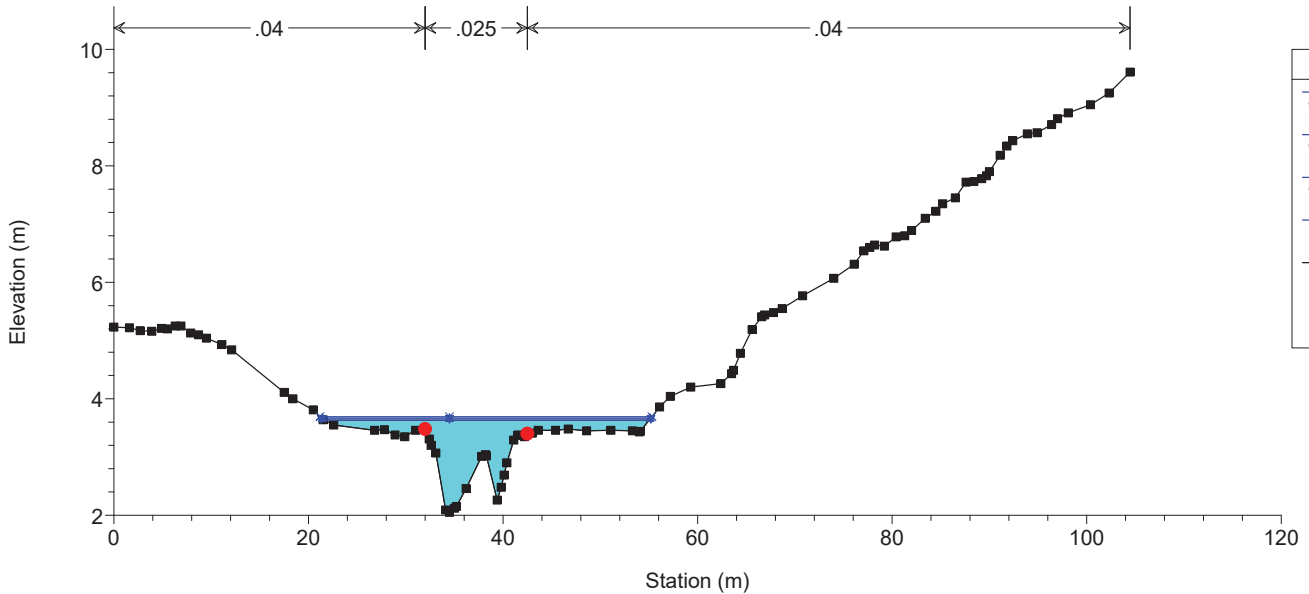
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PISCHINA_SALIDA Plan: tempi pai 12/12/2022

Geom: Pischina Salida

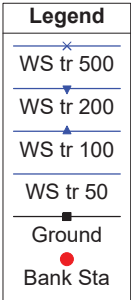
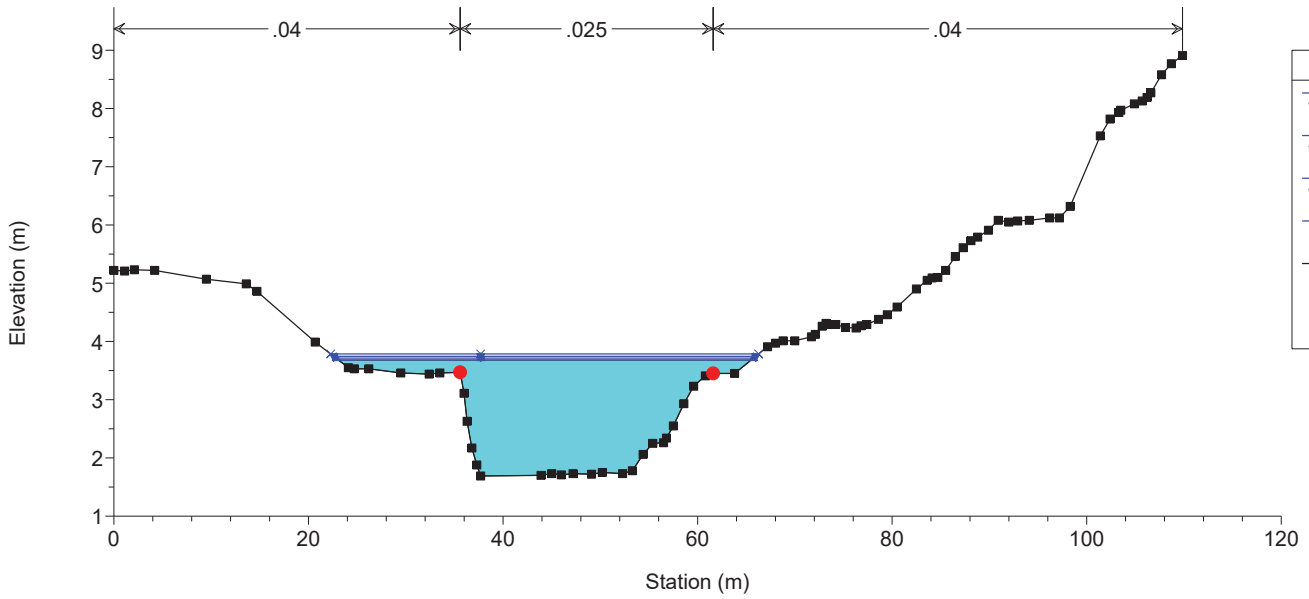
River = Pischina Salida Reach = Foce RS = 82



PISCHINA_SALIDA Plan: tempi pai 12/12/2022

Geom: Pischina Salida

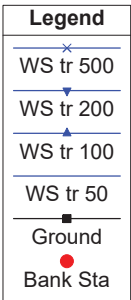
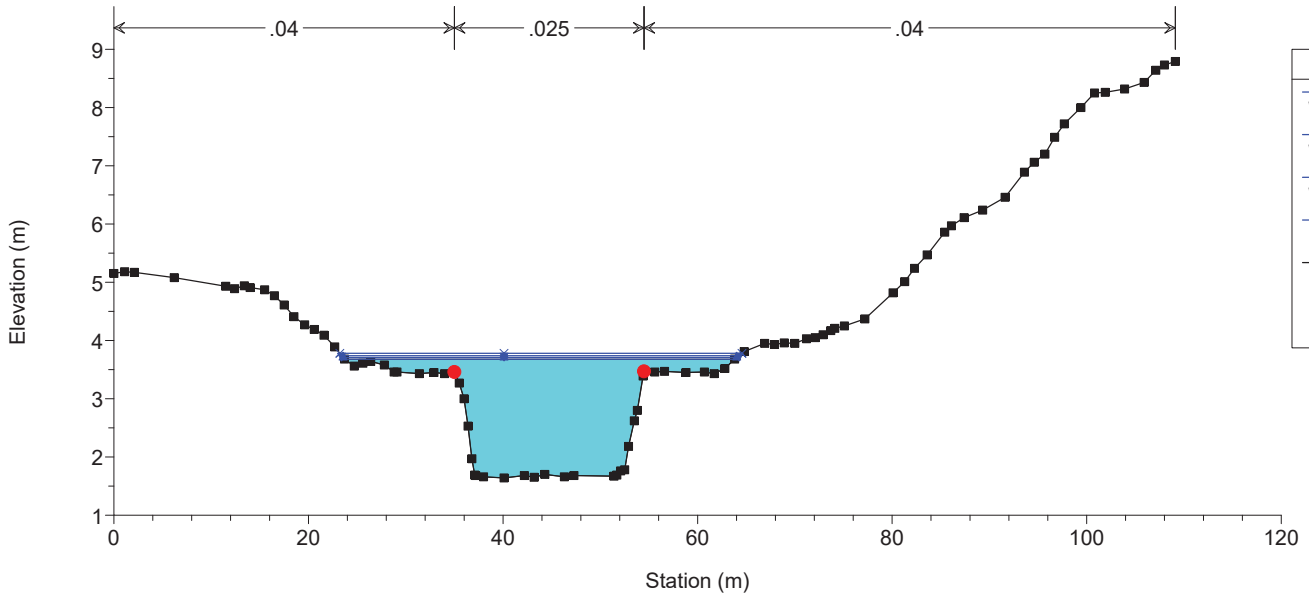
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PISCHINA_SALIDA Plan: tempi pai 12/12/2022

Geom: Pischina Salida

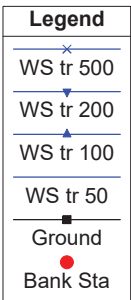
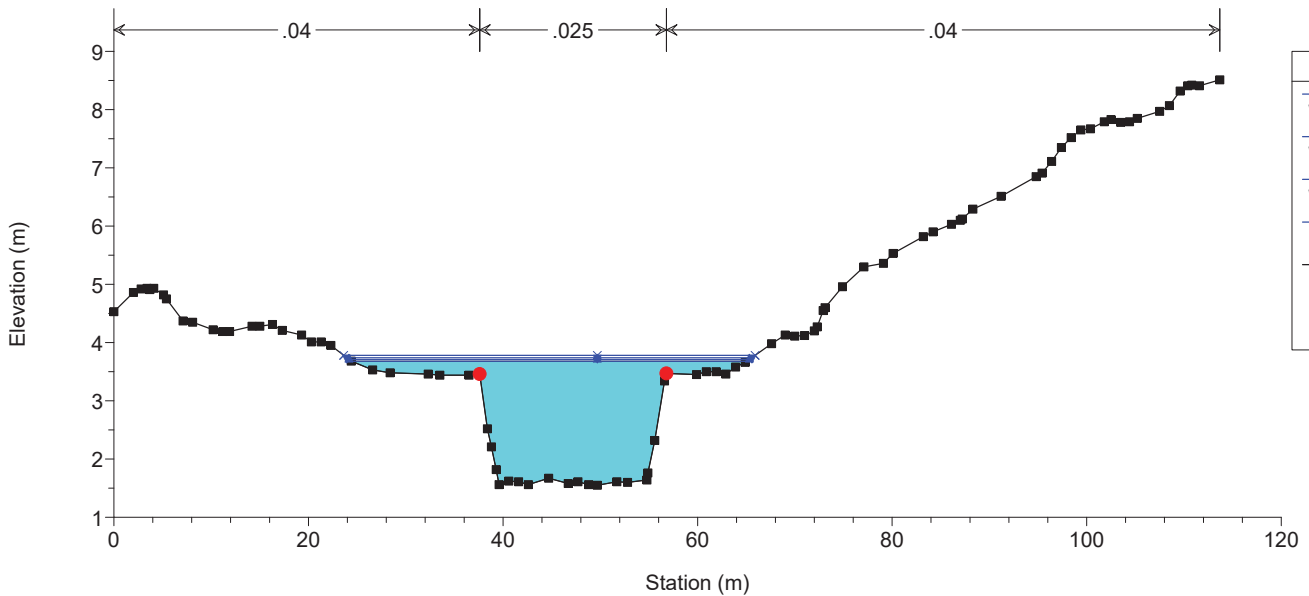
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PISCHINA_SALIDA Plan: tempi pai 12/12/2022

Geom: Pischina Salida

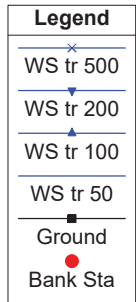
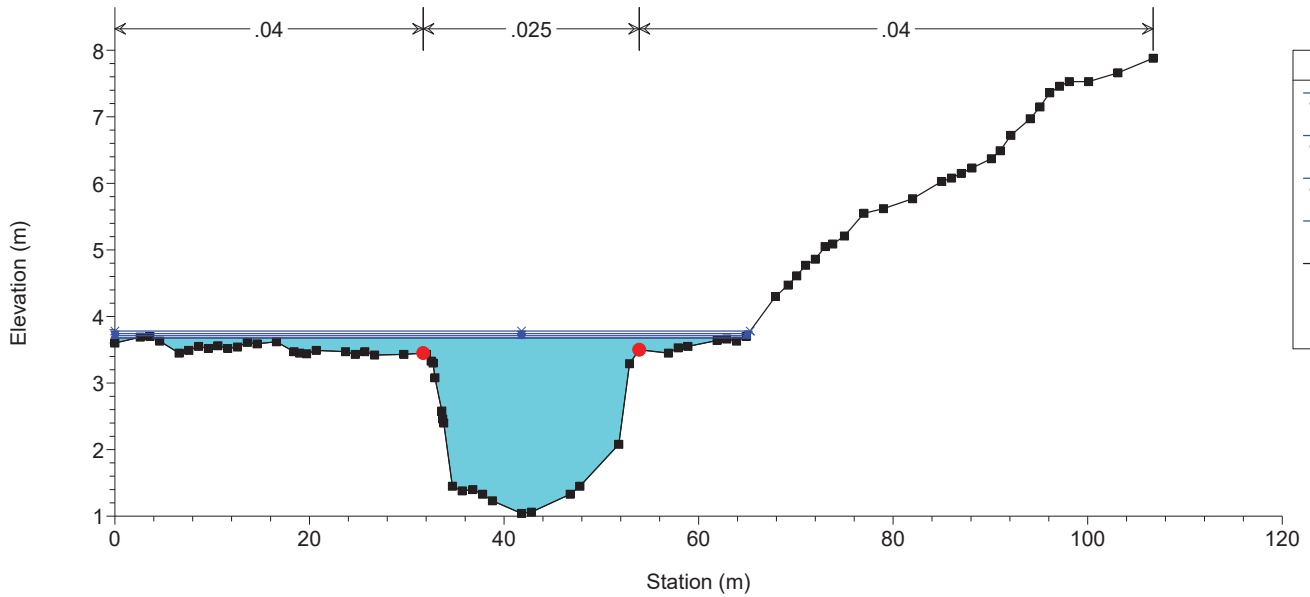
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PISCHINA_SALIDA Plan: tempi pai 12/12/2022

Geom: Pischina Salida

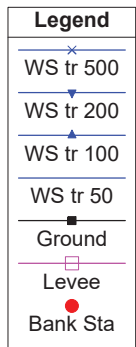
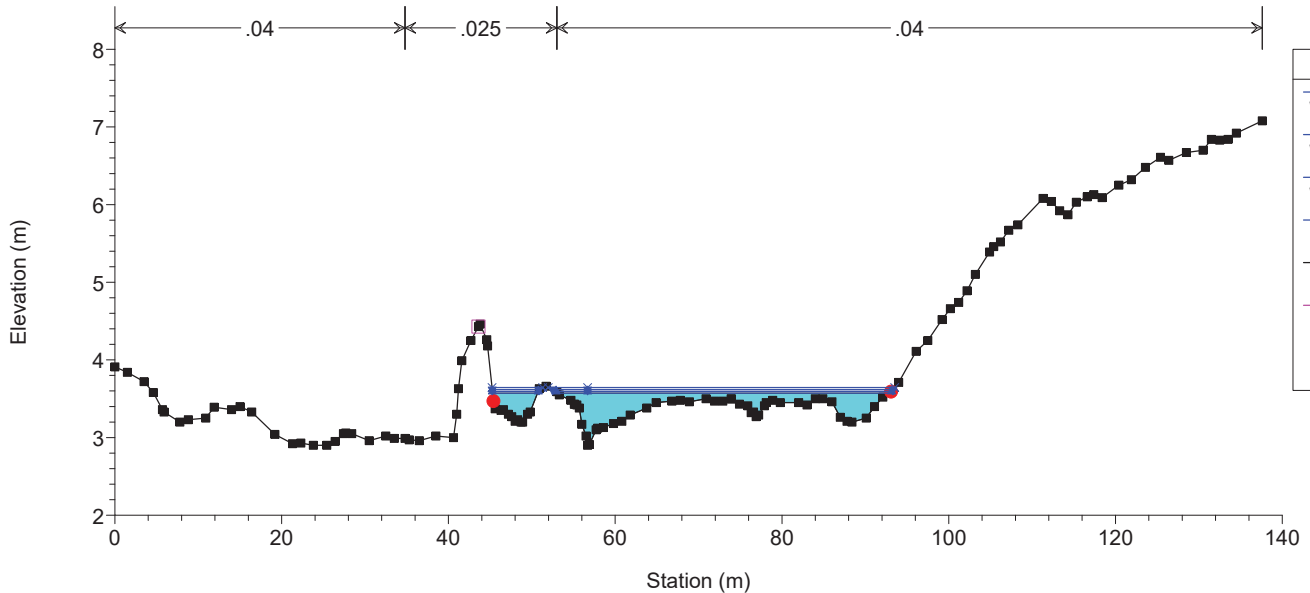
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PISCHINA_SALIDA Plan: tempi pai 12/12/2022

Geom: Pischina Salida

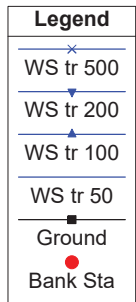
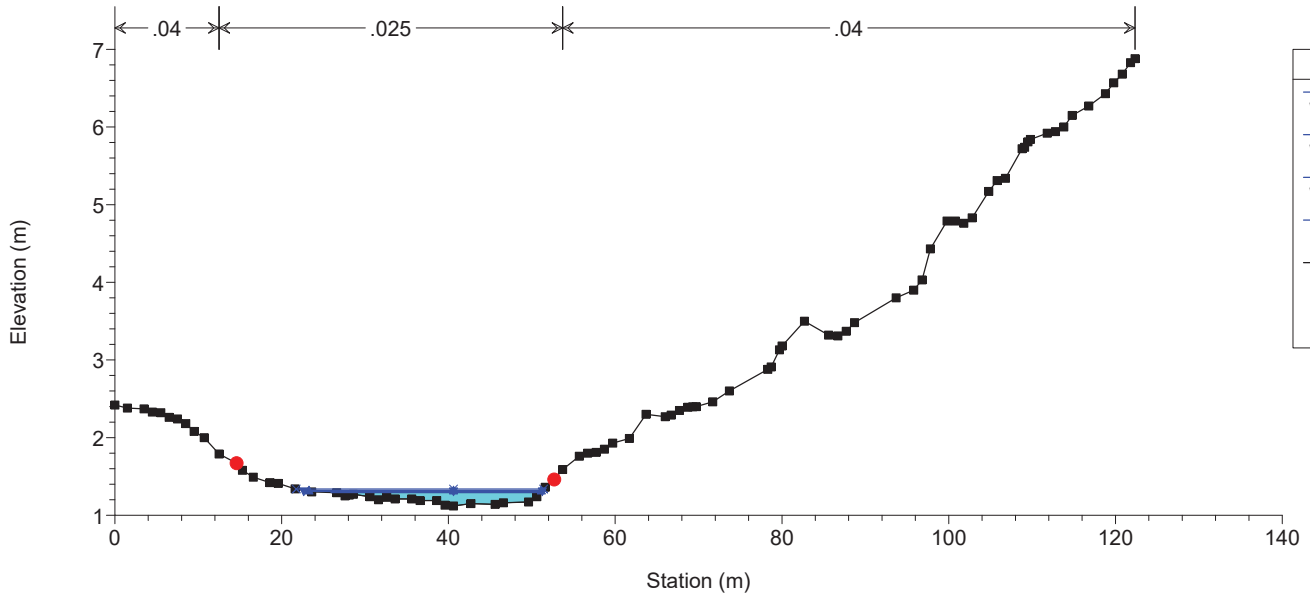
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PISCHINA_SALIDA Plan: tempi pai 12/12/2022

Geom: Pischina Salida

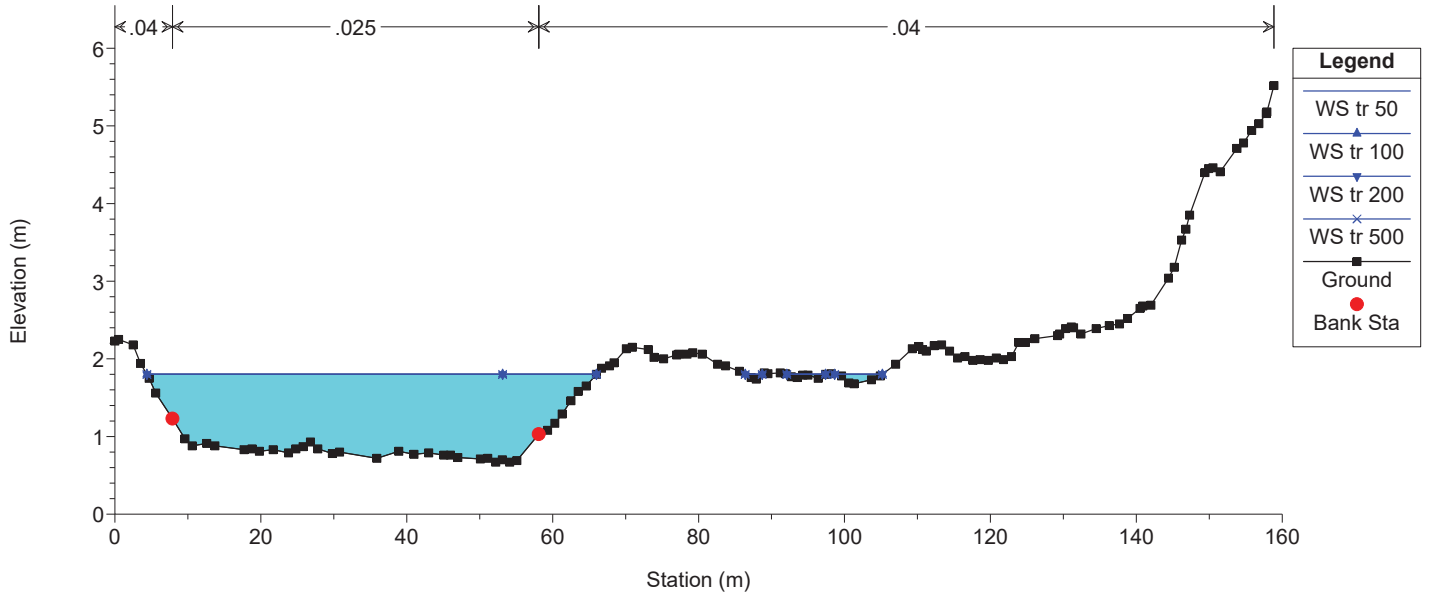
River = Pischina Salida Reach = Foce RS = 12



PISCHINA_SALIDA Plan: tempi pai 12/12/2022

Geom: Pischina Salida

River = Pischina Salida Reach = Foce RS = 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
Foce	295	tr 50	12.68	9.70	10.27	10.27	10.43	0.008274	1.82	7.36	24.72	0.97
Foce	295	tr 100	14.80	9.70	10.30	10.30	10.49	0.008042	1.91	8.27	25.55	0.98
Foce	295	tr 200	16.96	9.70	10.34	10.34	10.54	0.007606	1.98	9.27	26.40	0.96
Foce	295	tr 500	19.95	9.70	10.39	10.39	10.60	0.007238	2.07	10.55	27.23	0.96
Foce	282	tr 50	12.68	8.83	9.24	9.47	10.12	0.074503	4.16	3.06	13.24	2.73
Foce	282	tr 100	14.80	8.83	9.28	9.53	10.19	0.065831	4.23	3.52	13.81	2.62
Foce	282	tr 200	16.96	8.83	9.31	9.57	10.25	0.058480	4.30	3.98	14.34	2.52
Foce	282	tr 500	19.95	8.83	9.36	9.64	10.33	0.050402	4.39	4.64	15.07	2.39
Foce	264	tr 50	12.68	8.43	8.75	8.85	9.07	0.033171	2.50	5.12	26.37	1.78
Foce	264	tr 100	14.80	8.43	8.77	8.88	9.14	0.036193	2.72	5.51	26.90	1.88
Foce	264	tr 200	16.96	8.43	8.78	8.91	9.22	0.039610	2.93	5.86	27.35	1.98
Foce	264	tr 500	19.95	8.43	8.80	8.95	9.32	0.044186	3.22	6.28	27.80	2.11
Foce	243	tr 50	12.68	7.92	8.68	8.68	8.83	0.009365	1.73	7.34	24.53	1.01
Foce	243	tr 100	14.80	7.92	8.71	8.71	8.88	0.008900	1.81	8.20	25.26	1.00
Foce	243	tr 200	16.96	7.92	8.74	8.74	8.93	0.008691	1.90	8.99	25.92	1.00
Foce	243	tr 500	19.95	7.92	8.78	8.78	8.99	0.008325	2.00	10.10	26.94	1.00
Foce	221	tr 50	12.68	7.75	8.31	8.36	8.55	0.017455	2.17	5.86	22.20	1.35
Foce	221	tr 100	14.80	7.75	8.33	8.40	8.60	0.017552	2.28	6.49	22.93	1.37
Foce	221	tr 200	16.96	7.75	8.36	8.43	8.65	0.017281	2.39	7.10	23.19	1.38
Foce	221	tr 500	19.95	7.75	8.40	8.48	8.72	0.016914	2.53	7.90	23.52	1.39
Foce	217	tr 50	12.68	7.03	7.44	7.69	8.35	0.059095	4.21	3.01	10.51	2.51
Foce	217	tr 100	14.80	7.03	7.49	7.74	8.41	0.053921	4.24	3.49	11.23	2.43
Foce	217	tr 200	16.96	7.03	7.53	7.78	8.46	0.050433	4.28	3.96	11.98	2.38
Foce	217	tr 500	19.95	7.03	7.58	7.84	8.53	0.054623	4.33	4.61	14.57	2.46
Foce	199	tr 50	12.68	6.22	6.66	6.83	7.26	0.057335	3.42	3.71	17.29	2.36
Foce	199	tr 100	14.80	6.22	6.68	6.87	7.37	0.059540	3.67	4.04	17.46	2.43
Foce	199	tr 200	16.96	6.22	6.70	6.91	7.47	0.060664	3.88	4.37	17.63	2.49
Foce	199	tr 500	19.95	6.22	6.74	6.96	7.55	0.055234	3.99	5.00	17.94	2.42
Foce	183	tr 50	12.68	5.76	6.16	6.29	6.58	0.027443	2.88	4.40	15.28	1.72
Foce	183	tr 100	14.80	5.76	6.19	6.34	6.66	0.027903	3.04	4.86	15.77	1.75
Foce	183	tr 200	16.96	5.76	6.21	6.38	6.74	0.028476	3.20	5.31	16.23	1.78
Foce	183	tr 500	19.95	5.76	6.25	6.43	6.83	0.029588	3.38	5.90	17.03	1.84
Foce	166	tr 50	12.68	4.68	5.12	5.31	5.83	0.066673	3.74	3.39	15.47	2.56
Foce	166	tr 100	14.80	4.68	5.15	5.35	5.92	0.063587	3.89	3.80	15.83	2.53
Foce	166	tr 200	16.96	4.68	5.17	5.39	6.00	0.061040	4.02	4.22	16.18	2.52
Foce	166	tr 500	19.95	4.68	5.21	5.45	6.10	0.057689	4.18	4.78	16.62	2.49
Foce	150	tr 50	12.68	4.28	4.68	4.81	5.10	0.030149	2.85	4.45	16.88	1.77
Foce	150	tr 100	14.80	4.28	4.71	4.85	5.16	0.032062	2.98	4.97	18.61	1.84
Foce	150	tr 200	16.96	4.28	4.73	4.88	5.25	0.033048	3.17	5.35	18.85	1.89
Foce	150	tr 500	19.95	4.28	4.76	4.93	5.35	0.034166	3.42	5.85	19.16	1.95
Foce	136	tr 50	12.68	3.66	4.31	4.44	4.73	0.021178	2.86	4.44	12.96	1.55
Foce	136	tr 100	14.80	3.66	4.36	4.49	4.80	0.019331	2.94	5.05	13.42	1.51
Foce	136	tr 200	16.96	3.66	4.40	4.53	4.88	0.018775	3.08	5.54	13.72	1.51
Foce	136	tr 500	19.95	3.66	4.45	4.60	4.98	0.018158	3.25	6.21	14.10	1.51
Foce	121	tr 50	12.68	3.13	3.55	3.73	4.22	0.060430	3.63	3.49	15.44	2.44
Foce	121	tr 100	14.80	3.13	3.57	3.77	4.32	0.059050	3.83	3.87	15.66	2.45
Foce	121	tr 200	16.96	3.13	3.60	3.82	4.41	0.057213	3.99	4.26	15.89	2.45
Foce	121	tr 500	19.95	3.13	3.63	3.87	4.52	0.054895	4.19	4.78	16.19	2.44
Foce	106	tr 50	12.68	3.06	3.71	3.56	3.81	0.002679	1.41	9.70	21.73	0.60
Foce	106	tr 100	14.80	3.06	3.76	3.60	3.87	0.002696	1.49	10.81	22.54	0.61
Foce	106	tr 200	16.96	3.06	3.80	3.64	3.92	0.002822	1.60	11.73	23.10	0.63
Foce	106	tr 500	19.95	3.06	3.85	3.70	3.99	0.003013	1.73	12.88	23.78	0.66
Foce	94	tr 50	12.68	2.77	3.60	3.56	3.76	0.004598	1.78	8.25	27.30	0.77
Foce	94	tr 100	14.80	2.77	3.62	3.62	3.81	0.005636	2.00	8.66	27.52	0.86
Foce	94	tr 200	16.96	2.77	3.66	3.66	3.87	0.005559	2.09	9.81	28.13	0.86
Foce	94	tr 500	19.95	2.77	3.71	3.71	3.94	0.005513	2.20	11.29	28.89	0.87
Foce	82	tr 50	12.68	2.05	3.63		3.71	0.001394	1.27	12.93	33.41	0.43
Foce	82	tr 100	14.80	2.05	3.65	3.30	3.75	0.001705	1.43	13.64	33.69	0.48
Foce	82	tr 200	16.96	2.05	3.67	3.40	3.79	0.002038	1.58	14.28	33.89	0.53
Foce	82	tr 500	19.95	2.05	3.69	3.57	3.84	0.002551	1.80	14.97	34.11	0.59
Foce	70	tr 50	12.68	1.69	3.68		3.68	0.000031	0.30	44.89	42.41	0.08
Foce	70	tr 100	14.80	1.69	3.71		3.72	0.000040	0.34	46.29	42.90	0.09
Foce	70	tr 200	16.96	1.69	3.74		3.75	0.000048	0.38	47.65	43.38	0.09
Foce	70	tr 500	19.95	1.69	3.79		3.79	0.000061	0.44	49.43	44.00	0.11
Foce	60	tr 50	12.68	1.64	3.68		3.68	0.000040	0.36	38.67	40.07	0.09
Foce	60	tr 100	14.80	1.64	3.71		3.72	0.000051	0.41	39.96	40.47	0.10

HEC-RAS Plan: tempi pai River: Pischina Salida Reach: Foce (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
Foce	60	tr 200	16.96	1.64	3.74		3.75	0.000063	0.46	41.20	40.85	0.11
Foce	60	tr 500	19.95	1.64	3.78		3.79	0.000081	0.53	42.84	41.35	0.12
Foce	49	tr 50	12.68	1.55	3.68		3.68	0.000035	0.34	40.30	40.61	0.08
Foce	49	tr 100	14.80	1.55	3.71		3.72	0.000045	0.39	41.61	41.15	0.09
Foce	49	tr 200	16.96	1.55	3.74		3.75	0.000055	0.44	42.87	41.65	0.10
Foce	49	tr 500	19.95	1.55	3.78		3.79	0.000071	0.51	44.54	42.29	0.11
Foce	38	tr 50	12.68	1.04	3.68		3.68	0.000022	0.28	50.00	62.96	0.06
Foce	38	tr 100	14.80	1.04	3.71		3.72	0.000028	0.33	52.08	64.96	0.07
Foce	38	tr 200	16.96	1.04	3.74		3.75	0.000035	0.37	54.09	65.11	0.08
Foce	38	tr 500	19.95	1.04	3.78		3.79	0.000045	0.42	56.71	65.31	0.09
Foce	29	tr 50	12.68	2.90	3.57	3.57	3.67	0.021999	1.40	9.05	45.10	1.00
Foce	29	tr 100	14.80	2.90	3.59	3.59	3.70	0.021563	1.47	10.07	45.72	1.00
Foce	29	tr 200	16.96	2.90	3.62	3.62	3.74	0.020914	1.52	11.14	46.43	0.99
Foce	29	tr 500	19.95	2.90	3.64	3.64	3.78	0.021117	1.61	12.41	47.61	1.00
Foce	12	tr 50	12.68	1.12	1.29	1.48	2.61	0.352437	5.09	2.49	25.15	5.16
Foce	12	tr 100	14.80	1.12	1.31	1.50	2.66	0.344109	5.16	2.87	27.87	5.13
Foce	12	tr 200	16.96	1.12	1.32	1.53	2.72	0.315655	5.25	3.23	28.62	4.99
Foce	12	tr 500	19.95	1.12	1.34	1.56	2.78	0.278452	5.32	3.75	29.66	4.77
Foce	2	tr 50	12.68	0.67	1.80	0.99	1.80	0.000039	0.25	54.75	75.78	0.08
Foce	2	tr 100	14.80	0.67	1.80	1.01	1.80	0.000053	0.29	54.75	75.78	0.09
Foce	2	tr 200	16.96	0.67	1.80	1.03	1.81	0.000069	0.33	54.75	75.78	0.11
Foce	2	tr 500	19.95	0.67	1.80	1.05	1.81	0.000096	0.39	54.75	75.78	0.12